

AVIONIC B-system
SYSTEM I-system
DESCRIPTION 0
(0
Example 0
document 0
for 0
LSA 0
applicants 0
â(0
v1 0
of 0
17 0
. 0

02 0
. 0

16 0
) 0
Introduction 0
This 0
document 0
describes 0
the 0
Avionic B-system
System I-system
of 0
the 0
ABCD 0
aircraft B-asset
according 0
to 0
the 0
requirements 0
as 0
referenced 0
in 0
the 0
certification 0
programme 0
(0
ref 0
. 0

1 0
) 0
. 0

The 0
aim 0
of 0
this 0
document 0
to 0
describe 0
the 0
avionic B-system
system I-system
of 0
the 0
aeroplane B-asset
and 0
demonstrate 0

compliance 0
to 0
the 0
requirements 0
. 0

This 0
document 0
is 0
essential 0
, 0

when 0
the 0
applicant 0
â(0
s 0
design 0
contains 0
non 0
- 0
certified 0
elements 0
. 0

(0
e 0
. 0

g 0
. 0

instruments 0
what 0
aren 0
â(0
t 0
ETSO 0
certified 0
) 0
References 0
Certification 0
Programme 0
ABCD 0
- 0
CP 0
- 0
00 0
List 0
of 0
Abbreviations 0
A 0
/ 0
C 0
â(0
Aircraft B-asset
A 0
/ 0
D 0
â(0
Analog B-parameter
/ I-parameter
Digital I-parameter
AC 0

â(0
Alternate B-parameter
Current I-parameter
AC 0
(0
2 0
) 0
Advisory 0
Circular 0
(0
FAA 0
) 0
ADC 0
â(0
Air B-module
Data I-module
Computer I-module
ALT 0
â(0
Altitude B-parameter
indicator I-module
Amp 0
â(0
Amperes B-measurement
AOA 0
â(0
Angle B-parameter
of I-parameter
Attack I-parameter
AP 0
â(0
Alternative 0
Procedures 0
of 0
Design 0
Organization 0
ASI 0
â(0
Airspeed B-module
Indicator I-module
ASTM 0
â(0
American 0
Society 0
for 0
Testing 0
and 0
Materials 0
ATM 0
â(0
Air 0
Traffic 0
Management 0
CB 0
â(0
Circuit B-component
Breakers I-component
CDI 0
â(0
Course B-module
Deviation I-module
Indicator I-module
CHT 0
â(0

Cylinder B-parameter
Head I-parameter
Temperature I-parameter
COM 0
â(0
Communication 0
CS 0
â(0
Certification 0
Specifications 0
CS 0
- 0
LSA 0
â(0
Certification 0
Specifications 0
for 0
Light 0
Sport 0
Aircraft 0
DC 0
â(0
Direct B-parameter
Current I-parameter
DOA 0
â(0
Design 0
Organization 0
Approval 0
EASA 0
â(0
European 0
Aviation 0
Safety 0
Agency 0
EFIS 0
â(0
Electronic B-system
Flight I-system
Instrument I-system
System I-system
ELA 0
â(0
European 0
Light 0
Aircraft B-asset
ETSO 0
â(0
European 0
Technical 0
Standard 0
Order 0
FAA 0
â(0
Federal 0
Aviation 0
Administration 0
FOV 0
â(0
Field B-parameter
- I-parameter
of I-parameter
- I-parameter
View I-parameter

GNSS 0
â(0
Global B-module
Navigation I-module
Satellite I-module
System I-module
GPS 0
â(0
Global B-module
Positioning I-module
System I-module
HSI 0
â(0
Horizontal B-module
Situation I-module
Indicator I-module
Hg 0
In 0
â(0
Inches I-parameter
of I-parameter
Mercury I-parameter
IC 0
â(0
Intercom B-module
ILS 0
â(0
Instrument B-module
Landing I-module
System I-module
LH 0
â(0
Left B-location
Hand I-location
(I-location
side I-location
) I-location
MFD 0
â(0
multi B-module
- I-module
function I-module
display I-module
NAV 0
â(0
Navigation B-module
OAT 0
â(0
Outside B-parameter
Air I-parameter
Temperature I-parameter
OP 0
â(0
Oil B-parameter
Pressure I-parameter
OT 0
â(0
Oil B-parameter
Temperature I-parameter
P 0
/ 0
N 0
â(0
Part 0

Number 0
PFD 0
â(0
Primary B-module
Flight I-module
Display I-module
PMA 0
â(0
Parts 0
Manufacturer 0
Approval 0
RH 0
â(0
Right B-location
Hand I-location
(I-location
side I-location
) I-location
RPM 0
â(0
Revolution B-parameter
per I-parameter
minute I-parameter
S 0
/ 0
N 0
â(0
Serial 0
Number 0
SAE 0
â(0
Society 0
of 0
Automotive 0
Engineers 0
TSO 0
â(0
Technical 0
Standard 0
Order 0
V 0
â(0
Volts B-parameter
VHF 0
â(0
Very B-parameter
High I-parameter
Frequency I-parameter
VOR 0
â(0
VHF B-module
Omnidirectional I-module
Range I-module
W 0
â(0
Watts B-parameter
Description 0
The 0
aircraft B-asset
ABCD 0
has 0
a 0
semi B-system
- I-system

conventional I-system
instrument I-system
panel I-system
, I-system

intended 0
for 0
Day 0
- 0
VFR 0
operation 0
. 0

The 0
conventional 0
â(0
sixpack 0
â(0
is 0
replaced 0
with 0
an 0
EFIS B-system
display I-system
on 0
the 0
pilot 0
side 0
, 0

and 0
contains 0
the 0
necessary 0
flight 0
data 0
and 0
engine 0
data 0
. 0

The 0
display B-module
has 0
controls B-system
for 0
the 0
remote B-module
- I-module
controlled I-module
VHF I-module
radio I-module
, 0

and 0
NAV B-module
radio I-module
including 0
VOR B-module
/ I-module
ILS I-module
, 0

GNSS B-module

. 0

The 0
ignition B-component
switch I-component
is 0
located 0
on 0
the 0
left B-location
side I-location
of 0
the 0
panel B-system
. 0

The 0
master B-control
switch I-control
and 0
the 0
electrical B-control
switches I-control
(0
lights B-component
, 0

avionic B-component
master I-component
, 0

fuel B-component
pump I-component
, 0

etc 0
. 0

) 0
are 0
located 0
below B-location
the 0
display B-module
. 0

Above B-location
the 0
display B-module
, 0

a 0
placard B-component
shows 0
the 0
applicable 0
limitations B-parameter
(0
MTOW 0
, 0

Operational 0
limitations 0
, 0

manoeuvring B-parameter
speed I-parameter
, 0

manoeuvres 0
, 0

IMC 0
limitations 0
) 0
. 0

The 0
instrument B-system
panel I-system
is 0
divided 0
into 0
five 0
sections 0
: 0
LH B-location
, 0

centre B-location
, 0

RH B-location
, 0

instrument B-component
panel I-component
cover I-component
, 0

and 0
centre B-component
console I-component
. 0

The 0
EFIS B-system
display I-system
is 0
located 0
on 0
the 0
LH B-location
section 0
together 0
with 0
the 0
analogue B-module
indicators I-module
for 0
airspeed B-parameter
and 0
altitude B-parameter
. 0

The 0
stack 0
for 0

radio B-module
, 0

transponder B-module
, 0

navigation B-module
and 0
GPS B-module
are 0
located 0
on 0
the 0
centre B-system
panel I-system
. 0

Engine B-module
analogue I-module
instruments I-module
are 0
located 0
to 0
the 0
right B-location
. 0

Location 0
of 0
circuit B-module
breakers I-module
(0
CB 0
) 0
are 0
divided 0
. 0

The 0
primary 0
C 0
/ 0
B 0
 $\hat{a}(\square$ 0
s 0
, 0

such 0
as 0
battery B-component
master I-component
, 0

avionic B-component
master I-component
, 0

flaps B-module
, 0

etc 0
. 0

are 0

placed 0
in B-location
front I-location
of I-location
the 0
pilot 0
, 0

the 0
secondary 0
circuit B-module
breakers I-module
, 0

such 0
as 0
C 0
/ 0
B 0
â(□ 0
s 0
for 0
the 0
conventional B-component
engine I-component
instruments I-component
are 0
placed 0
to 0
the 0
right B-location
side 0
. 0

Requirements 0
The 0
applicable 0
requirements 0
of 0
CS 0
- 0
LSA 0
. 0

15 0
(0
Reference 0
standard 0
: 0
ASTM 0
F2245 0
- 0
12d 0
) 0
as 0
defined 0
in 0
the 0
Certification 0
programme 0
(0
Ref 0
. 0

1 0
) 0
, 0

are 0
shown 0
in 0
the 0
table 0
below 0
. 0

(0
NOTE 0
: 0
at 0
the 0
time 0
of 0
issue 0
of 0
this 0
template 0
, 0

the 0
CS 0
- 0
LSA 0
amdt 0
1 0
is 0
in 0
place 0
which 0
includes 0
the 0
ASTM 0
F2245 0
- 0
12d 0
. 0

If 0
later 0
amendments 0
of 0
the 0
CS 0
- 0
LSA 0
or 0
ASTM 0
are 0
in 0
place 0
, 0

they 0
should 0
be 0
considered 0
. 0

The 0
structure 0
of 0
the 0
document 0
remains 0
the 0
same 0
, 0

but 0
the 0
requirements 0
defined 0
in 0
the 0
certification 0
basis 0
agreed 0
with 0
the 0
Agency 0
shall 0
be 0
considered 0
) 0

Table 0
1 0
â(0
Cross 0
reference 0
table 0
for 0
CS 0
- 0

LSA 0
requirements 0
The 0
design 0
of 0
the 0
avionic B-system
system I-system
of 0
the 0
Airplane B-asset
ABCD 0
meets 0
also 0
the 0
standards 0
provided 0
by 0
the 0
certification 0
memo 0
â(0
Acceptance 0
of 0
Electronic B-module
Flight I-module
Instrument I-module
Systems I-module
without 0

own 0
equipment 0
approval 0
in 0
Small 0
Aeroplanes 0
(0
ELA1 0
) 0
â(0
. 0

A 0
cross 0
reference 0
table 0
is 0
provided 0
in 0
Appendix 0
1 0
. 0

NOTE 0
: 0
at 0
the 0
date 0
of 0
issue 0
of 0
this 0
template 0
, 0

the 0
certification 0
memo 0
is 0
still 0
in 0
consultation 0
. 0

Since 0
the 0
certification 0
memo 0
is 0
not 0
published 0
yet 0
, 0

It 0
might 0
happen 0
that 0
the 0
final 0
version 0
of 0
the 0
Certification 0

Memo 0
will 0
differ 0
in 0
some 0
aspects 0
, 0

nevertheless 0
the 0
intent 0
of 0
the 0
certification 0
memo 0
is 0
expected 0
to 0
remain 0
the 0
same 0
. 0

Instrument 0
panel 0
layout 0
(0
NOTE 0
:
this 0
document 0
has 0
been 0
written 0
considering 0
a 0
typical 0
hybrid 0
digital 0
/
analog 0
solution 0
of 0
the 0
instrument B-system
panel I-system
. 0

This 0
is 0
not 0
aimed 0
to 0
suggest 0
a 0
â(0
desirable 0
â(0
solution 0
by 0
the 0
Agency 0
. 0

Any 0
solution 0
, 0

as 0
long 0
as 0
it 0
complies 0
to 0
the 0
requirements 0
, 0

can 0
be 0
proposed 0
and 0
should 0
be 0
evaluated 0
with 0
the 0
approach 0
shown 0
in 0
this 0
document 0
) 0

Figure 0
1 0
â(0
Instrument B-module
Panel I-module
Layout I-module
EFIS B-module
screen I-module
details 0
The 0
display B-module
is 0
an 0
8 0
â(0
, 0

high 0
resolution 0
VGA 0
screen 0
, 0

with 0
built 0
- 0
in 0
features 0
: 0
Air B-module
data I-module
computer I-module
VOR B-module
and I-module
ILS I-module

LOC I-module
radio I-module
COM B-module
radio I-module
GPS B-module
receiver I-module
Glideslope B-module
receiver I-module
Solid B-module
- I-module
state I-module
attitude I-module
and I-module
heading I-module
reference I-module
system I-module
A B-module
/ I-module
D I-module
converter I-module
An 0
audio B-module
panel I-module
is 0
installed 0
in 0
the 0
central 0
section 0
of 0
the 0
instrument B-system
panel I-system
. 0

It 0
contains 0
controls B-system
for 0
the 0
pilot 0
â(0
s 0
and 0
the 0
passenger 0
â(0
s 0
audio 0
output 0
. 0

The 0
audio B-module
panel I-module
communicates 0
with 0
the 0
avionics B-module
unit I-module
using 0
RS B-parameter
- I-parameter
232 I-parameter

digital I-parameter
interface I-parameter
. 0

Each 0
microphone B-module
input 0
has 0
a 0
dedicated 0
VOX B-module
circuit I-module
to 0
ensure 0
that 0
only 0
the 0
active 0
microphone B-module
(0
s 0
) 0
is 0
/ 0
are 0
heard 0
when 0
squellch B-control
is 0
broken 0
. 0

After 0
the 0
operator 0
has 0
stopped 0
talking 0
, 0

the 0
intercom 0
channel 0
remains 0
momentarily 0
open 0
to 0
avoid 0
closure 0
between 0
words 0
or 0
normal 0
pauses 0
. 0

Remote 0
VHF B-module
NAV I-module
/ I-module
COM I-module
receiver I-module
is 0
located 0

in 0
the 0
avionics B-module
rack I-module
, 0

behind 0
the 0
co 0
- 0
pilot 0
â(0
s 0
seat B-system
. I-system

Panel B-module
- I-module
mounted I-module
VHF I-module
NAV I-module
/ I-module
COM I-module
/ I-module
GPS I-module
receiver I-module
is 0
located 0
in 0
the 0
central B-location
section 0
of 0
instrument B-system
panel I-system
. 0

Both 0
COM B-module
radios I-module
are 0
able 0
for 0
8 0
. 0

33 0
kHz 0
channel 0
spacing 0
. 0

The 0
frequencies 0
can 0
be 0
displayed 0
additionally 0
on 0
the 0
PFD B-module
. 0

The 0

COM B-module
radio I-module
is 0
able 0
for 0
8 0
. 0

33 0
kHz B-measurement
channel 0
spacing 0
. 0

Parts 0
of 0
the 0
EFIS B-module
screen I-module
Attitude B-parameter
indicator I-module
is 0
located 0
in 0
the 0
centre B-location
of 0
the 0
screen 0
. 0

Airspeed B-parameter
tape 0
is 0
located 0
on 0
the 0
left B-location
side 0
of 0
the 0
attitude B-module
indicator I-module
. 0

True 0
airspeed B-parameter
is 0
digitally 0
displayed 0
in 0
a 0
small 0
window 0
below 0
the 0
airspeed B-parameter
tape 0
. 0

The 0
airspeed B-module
indicator I-module
also 0

displays 0
speed B-parameter
ranges 0
for 0
different 0
airplane B-asset
configurations 0
(0
flaps 0
retracted 0
or 0
extended 0
) 0
, 0

airspeed B-parameter
trends 0
and 0
 $\hat{a}$ B-parameter
V I-parameter
 $\hat{a}$ I-parameter
speeds I-parameter
. 0

If 0
the 0
airspeed B-module
indicator I-module
fails 0
, 0

the 0
display B-module
marks 0
the 0
airspeed B-parameter
display 0
area 0
with 0
a 0
red 0
 $\hat{a}$ 0
X 0
 $\hat{a}$ 0
and 0
red 0
text 0
spelling 0
out 0
 $\hat{a}$ 0
AIRSPEED B-parameter
FAILURE 0
 $\hat{a}$ 0
. 0

The 0
altimeter B-module
is 0
located 0
on 0
the 0
RH B-location
side 0
of 0

the 0
attitude B-module
indicator I-module
. 0

The 0
altimeter B-module
displays 0
the 0
airplane B-asset
altitude B-parameter
in 0
feet 0
on 0
a 0
rolling 0
number 0
gauge 0
(0
like 0
a 0
drum 0
- 0
pointer 0
altimeter 0
) 0
using 0
a 0
moving 0
tape 0
. 0

The 0
altimeter B-module
also 0
shows 0
an 0
altitude 0
bug 0
at 0
the 0
selected 0
altitude B-parameter
or 0
on 0
the 0
top 0
or 0
bottom 0
of 0
the 0
tape 0
. 0

If 0
the 0
altitude B-module
indicator I-module
fails 0
, 0

the 0

display 0
marks 0
the 0
tape 0
display 0
area 0
with 0
a 0
red 0
â(□ 0
X 0
â(□ 0
and 0
red 0
text 0
spelling 0
out 0
â(□ 0
ALTITUDE B-parameter
FAILURE 0
â(□ 0
. 0

The 0
vertical B-module
speed I-module
indicator I-module
is 0
located 0
to 0
the 0
right B-location
of 0
the 0
altitude B-parameter
indicator I-module
. 0

The 0
indicator B-module
displays 0
the 0
airplane B-asset
vertical B-parameter
speed I-parameter
in 0
feet B-measurement
/ I-measurement
min I-measurement
. 0

A 0
numeric B-component
pointer I-component
moves 0
vertically 0
up 0
/ 0
down 0
a 0
fixed B-component
tape I-component
. 0

The 0
vertical B-parameter
speed I-parameter
indication 0
is 0
shown 0
digitally 0
on 0
the 0
pointer B-component
. 0

The 0
scale 0
on 0
the 0
tape 0
gives 0
the 0
positive 0
or 0
negative 0
multiplication 0
factor 0
on 0
a 0
1000 0
feet B-measurement
/ I-measurement
min I-measurement
ticks 0
scale 0
. 0

A 0
negative 0
sign 0
is 0
shown 0
on 0
the 0
pointer B-component
to 0
indicate 0
negative 0
vertical B-parameter
speeds I-parameter
(0
airplane B-asset
descending 0
) 0
. 0

If 0
the 0
VSI 0
fails 0
the 0
display 0
marks 0
the 0
tape 0
display 0
area 0

with 0
a 0
red 0
â(□ 0
X 0
â(□ 0
and 0
yellow 0
text 0
spelling 0
out 0
â(□ 0
VERT 0
SPEED B-parameter
FAIL 0
â(□ 0
. 0

Horizontal B-module
situation I-module
indicator I-module
(0
HSI 0
) 0
. 0

The 0
HSI 0
is 0
located 0
in 0
the 0
center B-location
of 0
the 0
screen B-module
at 0
the 0
bottom 0
. 0

The 0
HSI B-module
displays 0
a 0
rotating 0
circular 0
compass 0
with 0
heading 0
markings 0
. 0

The 0
HSI 0
shows 0
the 0
following 0
information 0
:
Heading B-parameter
information I-parameter
, 0

as 0
a 0
direct 0
reading 0
compass 0
. 0

The 0
heading 0
is 0
shown 0
digitally 0
in 0
a 0
window 0
at 0
the 0
top B-location
of 0
the 0
rotating 0
compass 0
. 0

Turn B-component
rate I-component
indicator I-component
. 0

A 0
turn B-component
rate I-component
indicator I-component
is 0
located 0
between 0
the 0
digital 0
heading 0
window 0
and 0
the 0
rotating 0
compass 0
. 0

Course B-component
deviation I-component
indicator I-component
(0
CDI 0
) 0
. 0

The 0
CDI 0
is 0
a 0
line 0
with 0
an 0
arrowhead 0
that 0
points 0

to 0
the 0
airplane B-asset
heading 0
on 0
the 0
rotating 0
compass 0
. 0

The 0
line 0
can 0
slide 0
left 0
or 0
right 0
of 0
the 0
center 0
marking 0
to 0
show 0
the 0
deviation 0
of 0
the 0
actual 0
course 0
being 0
flown 0
to 0
the 0
required 0
course 0
. 0

Course 0
data 0
can 0
be 0
supplied 0
from 0
the 0
airplane B-asset
VOR B-module
, 0

LOC B-module
or 0
GPS B-module
system I-module
. 0

If 0
the 0
heading 0
data 0
is 0
invalid 0
the 0
digital 0
heading 0
display 0

window 0
is 0
marked 0
with 0
a 0
red 0
cross 0
and 0
yellow 0
text 0
spelling 0
â(0
HEADING 0
ERROR 0
â(0
. 0

Vertical B-component
deviation I-component
(I-component
glideslope I-component
) I-component
indicator I-component
. 0

The 0
glideslope B-component
indicator I-component
is 0
located 0
to 0
the 0
left B-location
of 0
the 0
vertical B-module
speed I-module
indicator I-module
. 0

Alerts B-component
window I-component
. 0

The 0
alerts B-component
window I-component
is 0
located 0
on 0
the 0
right I-location
side 0
of 0
the 0
screen B-module
. 0

This 0
window B-component
opens 0
when 0
an 0
alert 0

is 0
activated 0
. 0

(0
NOTE 0
: 0
the 0
list 0
of 0
alerts 0
should 0
be 0
provided 0
) 0
Warnings B-component
and I-component
cautions I-component
window I-component
. 0

The 0
warnings B-component
and I-component
cautions I-component
window I-component
is 0
located 0
above B-location
the 0
alerts B-component
window I-component
. 0

When 0
an 0
alert 0
occurs 0
, 0

it 0
supersedes 0
the 0
cautions 0
and 0
warnings 0
. 0

(0
NOTE 0
: 0
the 0
list 0
of 0
warning 0
/ 0
caution 0
messages 0
should 0
be 0
provided 0
) 0
The 0
navigation B-component

map I-component
(I-component
moving I-component
map I-component
) I-component
window I-component
is 0
located 0
in 0
the 0
lower 0
left B-location
of 0
the 0
screen B-module
. 0

The 0
window 0
shows 0
a 0
pictorial 0
view 0
of 0
the 0
airplane B-asset
on 0
a 0
moving 0
map 0
. 0

Small B-component
bezels I-component
in 0
the 0
top B-location
left B-location
corner 0
of 0
the 0
screen B-module
show 0
active 0
and 0
standby 0
NAV B-parameter
frequencies I-parameter
. 0

Small B-component
windows I-component
in 0
the 0
top B-location
right B-location
of 0
the 0
PFD B-module
show 0
active 0
and 0
standby 0
COM B-parameter

frequencies I-parameter
. 0

A 0
larger 0
horizontal 0
band 0
in 0
the 0
top B-location
centre B-location
of 0
the 0
PFD B-module
shows 0
flight 0
planning 0
data 0
when 0
activated 0
. 0

A 0
small B-component
window I-component
in 0
the 0
bottom B-location
left B-location
of 0
the 0
PFD B-module
shows 0
the 0
outside B-parameter
air I-parameter
temperature I-parameter
(0
OAT 0
) 0
. 0

A 0
small B-component
windows I-component
on 0
the 0
bottom B-location
right B-location
of 0
the 0
PFD B-module
shows 0
the 0
transponder B-parameter
settings I-parameter
and 0
operational B-parameter
state I-parameter
. 0

Another 0
small B-component
window I-component

in 0
the 0
right B-location
bottom B-location
corner 0
of 0
the 0
PFD B-module
shows 0
a 0
digital B-parameter
clock I-parameter
. 0

A 0
set 0
of 0
labels 0
along 0
the 0
very 0
bottom B-location
of 0
the 0
PFD B-module
identifies 0
the 0
function 0
of 0
the 0
softkeys 0
for 0
the 0
current 0
page 0
being 0
displayed 0
on 0
the 0
PFD B-module
. 0

The 0
engine B-component
indication I-component
system I-component
window I-component
is 0
on 0
the 0
right B-location
side 0
of 0
the 0
screen B-module
, 0

that 0
displays 0
a 0
full 0
- 0
time 0
dedicated 0

display 0
of 0
these 0
engine B-system
parameters 0
(0
backup 0
engine 0
instruments 0
are 0
placed 0
on 0
the 0
right 0
side 0
of 0
the 0
instrument B-system
panel I-system
) 0
:
NOTE 0
:
in 0
this 0
example 0
, 0

the 0
primary 0
source 0
of 0
information 0
is 0
provided 0
by 0
the 0
EFIS B-system
display I-system
. 0

Engine B-parameter
RPM I-parameter
. 0

The 0
engine B-component
RPM I-component
indicator I-component
is 0
located 0
on 0
the 0
top 0
of 0
the 0
engine B-system
parameters 0
side 0
. 0

A 0
pointer B-component
on 0

a 0
gauge 0
- 0
like 0
circle 0
moves 0
to 0
show 0
the 0
engine B-parameter
rpm I-parameter
. 0

If 0
the 0
system 0
fails 0
the 0
display B-module
shows 0
a 0
red 0
cross 0
on 0
the 0
rpm 0
indicator 0
. 0

Manifold B-parameter
pressure I-parameter
(0
MP 0
) 0
The 0
manifold B-component
pressure I-component
indicator I-component
is 0
a 0
horizontal 0
bar 0
below B-location
the 0
RPM B-component
indicator I-component
, 0

with 0
an 0
arrow 0
- 0
like 0
pointer 0
. 0

The 0
exact 0
MP B-parameter
value I-parameter
in 0
inches 0
of 0
mercury 0

is 0
displayed 0
above 0
the 0
horizontal B-component
bar I-component
. 0

The 0
operating 0
range 0
of 0
MP B-parameter
values I-parameter
is 0
marked 0
with 0
a 0
green 0
band 0
. 0

The 0
pointer 0
moves 0
from 0
left 0
to 0
right 0
to 0
show 0
the 0
increasing 0
manifold B-parameter
pressure I-parameter
. 0

Cylinder B-parameter
- I-parameter
head I-parameter
temperature I-parameter
(I-parameter
CHT I-parameter
) I-parameter
indicator I-component
. 0

This 0
indicator 0
is 0
found 0
below B-location
the 0
MP B-component
indicator I-component
. 0

This 0
is 0
also 0
a 0
horizontal 0
bar 0
, 0

with 0
an 0
arrow 0
- 0
like 0
pointer 0
. 0

The 0
operating 0
range 0
of 0
CHT B-parameter
values I-parameter
is 0
marked 0
with 0
a 0
small 0
green 0
band 0
, 0

the 0
caution 0
areas 0
are 0
marked 0
with 0
bigger 0
yellow 0
bands 0
. 0

The 0
exact 0
value 0
of 0
CHT B-parameter
is 0
shown 0
on 0
the 0
right 0
side 0
of 0
the 0
indicator 0
in 0
â| 0
C 0
. 0

Oil B-component
temperature I-component
indicator I-component
(0
OT 0
) 0
. 0

This 0
indicator 0

is 0
placed 0
below B-location
the 0
CHT B-component
indicator I-component
, 0

and 0
this 0
is 0
also 0
a 0
horizontal 0
bar 0
, 0

with 0
a 0
pointer 0
, 0

with 0
green 0
- 0
marked 0
operating 0
range 0
. 0

The 0
exact 0
value 0
in 0
âI I-measurement
C I-measurement
. 0

Oil B-component
pressure I-component
indicator I-component
(0
OP 0
) 0
is 0
located 0
below B-location
the 0
oil B-component
temperature I-component
indicator I-component
. 0

This 0
indicator 0
is 0
a 0
horizontal 0
bar 0
, 0

with 0
an 0
arrow 0

- 0
like 0
pointer 0
. 0

A 0
small 0
number 0
on 0
the 0
right 0
side 0
shows 0
the 0
oil B-parameter
pressure I-parameter
digitally 0
(0
in 0
bars 0
) 0
. 0

If 0
the 0
OP 0
drops 0
suddenly 0
, 0

a 0
yellow 0
bezel 0
is 0
shown 0
around 0
the 0
indicator 0
to 0
get 0
the 0
pilot 0
â(0
s 0
attention 0
. 0

The 0
main B-parameter
bus I-parameter
voltage I-parameter
is 0
displayed 0
below 0
the 0
RPM B-component
indicator I-component
. 0

A 0
pointer 0
above 0
a 0
horizontal B-component

range I-component
bar I-component
shows 0
the 0
main B-parameter
bus I-parameter
voltage I-parameter
. 0

The 0
horizontal B-component
range I-component
bar I-component
is 0
color 0
coded 0
, 0

too 0
. 0

The 0
green 0
central 0
section 0
of 0
the 0
bar 0
indicates 0
that 0
the 0
voltage B-parameter
is 0
within 0
limits 0
. 0

The 0
red 0
section 0
at 0
the 0
left 0
end 0
of 0
the 0
range 0
bar 0
indicates 0
too 0
low 0
a 0
voltage B-parameter
. 0

The 0
red 0
section 0
at 0
the 0
right 0
end 0
of 0
the 0

range 0
bar 0
indicates 0
too 0
high 0
a 0
voltage B-parameter
. 0

Above 0
the 0
range 0
bar 0
is 0
a 0
window 0
displaying 0
the 0
main B-parameter
bus I-parameter
voltage I-parameter
digitally 0
. 0

Amps B-measurement
. 0

The 0
generator 0
load 0
is 0
shown 0
by 0
an 0
indicator 0
located 0
below 0
the 0
Volts B-component
indicator I-component
. 0

A 0
pointer 0
above 0
a 0
horizontal B-component
range I-component
bar I-component
shows 0
the 0
generator 0
load 0
. 0

The 0
pointer 0
moves 0
from 0
left 0
to 0
right 0
to 0
show 0

the 0
load 0
on 0
the 0
generator 0
. 0

When 0
the 0
generator B-parameter
output I-parameter
and 0
the 0
electric 0
demands 0
is 0
in 0
balance 0
, 0

the 0
pointer 0
remains 0
in 0
middle 0
. 0

When 0
the 0
pointer 0
moves 0
to 0
right 0
, 0

it 0
means 0
the 0
generator 0
charges 0
the 0
battery B-module
. 0

When 0
the 0
pointer 0
moves 0
to 0
left 0
, 0

it 0
means 0
the 0
generator 0
 $\hat{a}_{\square}$ 0
s 0
performance 0
is 0
insufficient 0
to 0
supply 0
the 0

electrical 0
demands 0
, 0

so 0
the 0
battery 0
energizes 0
the 0
electrical B-system
system I-system
. 0

Fuel B-parameter
quantity I-parameter
. 0

The 0
fuel B-parameter
quantity I-parameter
indication 0
is 0
located 0
at 0
the 0
bottom B-location
of 0
the 0
engine B-module
parameters I-module
annunciator I-module
. 0

Pointers 0
above 0
and 0
below 0
a 0
range 0
bar 0
indicate 0
the 0
fuel B-parameter
quantities I-parameter
. 0

The 0
pointers 0
move 0
from 0
left 0
(0
low 0
) 0
to 0
right 0
(0
full 0
) 0
to 0
indicate 0
the 0
fuel B-parameter
quantity I-parameter

. 0

The 0
pointer 0
above 0
the 0
range 0
bar 0
indicates 0
the 0
quantity 0
of 0
fuel 0
in 0
the 0
left 0
fuel B-component
tank I-component
and 0
the 0
pointer 0
below 0
the 0
range 0
bar 0
indicates 0
the 0
quantity 0
of 0
fuel 0
in 0
the 0
right 0
fuel B-component
tank I-component
. 0

The 0
indicator 0
is 0
color 0
- 0
coded 0
, 0

when 0
the 0
fuel 0
- 0
quantity 0
reaches 0
the 0
amount 0
of 0
11 0
liters B-measurement
(0
the 0
fuel 0
needed 0
for 0
30 0
minutes B-measurement
flight 0

+ 0
10 0
% 0
safety 0
margin 0
at 0
1500 0
â(0
above 0
sea 0
level 0
+ 0
the 0
unusable 0
fuel 0
amount 0
) 0
the 0
indicator 0
becomes 0
red 0
. 0

The 0
11 0
liter B-measurement
(0
2 0
. 0

9 0
USG 0
) 0
total 0
fuel 0
quantity 0
(0
5 0
. 0

5 0
liters B-measurement
/ 0
1 0
. 0

45 0
USG 0
for 0
each 0
fuel 0
tank 0
) 0
is 0
marked 0
with 0
a 0
red 0
band 0
on 0
the 0
horizontal 0
bars 0
. 0

The 0
exact 0
fuel 0
amount 0
is 0
shown 0
on 0
the 0
top 0
of 0
the 0
fuel 0
bar 0
. 0

(0
Left 0
and 0
Right 0
side 0
tanks 0
) 0
. 0

Field 0
of 0
view 0
Because 0
of 0
the 0
absence 0
of 0
more 0
precise 0
requirements 0
within 0
CS 0
- 0
LSA 0
/ 0
ASTM 0
F2245 0
- 0
12d 0
for 0
the 0
visibility 0
of 0
instrumentation 0
, 0

an 0
analysis 0
of 0
the 0
primary 0
field 0
of 0
view 0
has 0
been 0
performed 0
following 0

AC 0
23 0
. 0

1311 0
- 0
1C 0
. 0

The 0
aim 0
is 0
to 0
give 0
to 0
the 0
pilot 0
the 0
ability 0
to 0
use 0
all 0
the 0
required 0
instruments 0
with 0
â(0
minimum 0
head 0
and 0
eye 0
movement 0
â(0
. 0

The 0
definitions 0
below 0
of 0
AC 0
23 0
. 0

1311 0
- 0
1C 0
are 0
considered 0
. 0

The 0
definition 0
of 0
the 0
Primary 0
Maximum 0
Field 0
- 0
of 0
- 0
View 0
of 0
AC 0
23 0

. 0

1311 0

- 0

1C 0

has 0

been 0

considered 0

with 0

one 0

exception 0

: 0

a 0

Field 0

of 0

View 0

larger 0

than 0

+ 0

/ 0

â(0

35 0

degrees 0

horizontal 0

and 0

including 0

almost 0

the 0

whole 0

instrument B-system

panel I-system

has 0

been 0

considered 0

acceptable 0

. 0

The 0

justification 0

is 0

based 0

on 0

the 0

reduced 0

size 0

of 0

the 0

instrument B-system

panel I-system

and 0

the 0

reduced 0

number 0

of 0

needed 0

information 0

for 0

a 0

VFR 0

- 0

DAY 0

airplane B-asset

. 0

This 0
has 0
been 0
assessed 0
through 0
an 0
in 0
- 0
flight 0
review 0
and 0
pilot 0
assessment 0
, 0

which 0
is 0
recorded 0
in 0
document 0
ABCD 0
- 0
FTR 0
- 0
00B 0
â(0
Qualitative 0
pilot 0
statements 0
â(0
, 0

where 0
it 0
is 0
shown 0
that 0
all 0
the 0
displayed 0
info 0
, 0

including 0
engine B-system
analog 0
instruments 0
, 0

are 0
visible 0
through 0
pilot 0
â(0
s 0
visual 0
scan 0
and 0
minimized 0
head 0
rotation 0
. 0

Note 0

: 0
the 0
assessment 0
above 0
is 0
very 0
specific 0
but 0
it 0
can 0
be 0
acceptable 0
after 0
review 0
of 0
EASA 0
Flight 0
test 0
pilot 0
. 0

Figure 0
3 0
â 0
Field 0
of 0
View 0
The 0
table 0
below 0
shows 0
the 0
location 0
of 0
the 0
equipment 0
with 0
respect 0
to 0
the 0
above 0
definitions 0
of 0
the 0
Field 0
of 0
Views 0
. 0

Table 0
2 0
â 0
location 0
of 0
the 0
displayed 0
information 0
on 0
the 0
instrument B-system
panel I-system
System 0
schematics 0
Flight 0

instrumentation 0
This 0
sections 0
provide 0
a 0
more 0
detailed 0
description 0
of 0
the 0
individual 0
equipment 0
(0
information 0
displayed 0
, 0

type 0
of 0
calibration 0
performed 0
, 0

level 0
of 0
qualification 0
, 0

environmental 0
conditions 0
, 0

scale 0
range 0
, 0

etc 0
. 0

) 0
. 0

It 0
is 0
important 0
to 0
consider 0
that 0
the 0
primary 0
source 0
of 0
information 0
for 0
flight 0
data 0
is 0
the 0
EFIS 0
. 0

Thus 0
the 0
analogue 0

serves 0
as 0
backup 0
. 0

Pitot B-module
- I-module
static I-module
instruments I-module
Navigation B-component
instruments I-component
Backup B-component
engine I-component
instruments I-component
Warning B-component
lights I-component
Main B-component
switches I-component
Circuit B-component
Breakers I-component
Other B-component
instruments I-component
and I-component
switches I-component
Transponder B-module
The 0
XPNDR 0
123 0
is 0
a 0
solid 0
state 0
Mode 0
- 0
S 0
transponder 0
. 0

The 0
transponder B-module
provides 0
modes 0
A 0
, 0

C 0
and 0
S 0
functions 0
. 0

The 0
unit 0
is 0
operated 0
directly 0
through 0
the 0
display B-component
â I-component
s I-component
softkeys I-component
or 0
the 0

panel B-system
. 0

The 0
transponder B-module
is 0
linked 0
to 0
the 0
avionics B-module
unit I-module
via 0
RS 0
- 0
232 0
digital B-parameter
interface I-parameter
. 0

The 0
transponder B-module
is 0
installed 0
in 0
the 0
bottom 0
part 0
of 0
the 0
middle 0
instrument B-system
panel I-system
. 0

Flap B-component
switch I-component
, 0

and 0
flap B-component
position I-component
indicator I-component
The 0
flap B-component
switch I-component
and 0
position B-component
indicator I-component
have 0
been 0
integrated 0
into 0
one 0
unit 0
. 0

The 0
positions 0
are 0
shown 0
by 0
LEDs 0
for 0
each 0

flap 0
position 0
. 0

One 0
for 0
the 0
UP 0
, 0

one 0
for 0
the 0
15 0
Å° 0
, 0

and 0
one 0
for 0
the 0
30 0
Å° 0
position 0
. 0

Units 0
integrated 0
into 0
the 0
EFIS B-system
display I-system
AHRS B-module
: 0
it 0
provides 0
airplane B-parameter
attitude I-parameter
and 0
related 0
flight 0
data 0
to 0
the 0
display 0
. 0

It 0
receives 0
data 0
from 0
the 0
air 0
data 0
computer 0
, 0

the 0
magnetometer B-module
and 0
GPS B-component
signals I-component
. 0

The 0
Air B-module
Data I-module
Computer I-module
(0
ADC 0
) 0
receives 0
data 0
from 0
the 0
Pitot B-system
/ I-system
static I-system
system I-system
and 0
an 0
OAT B-parameter
sensor 0
. 0

The 0
ADC 0
uses 0
this 0
data 0
to 0
provide 0
pressure B-parameter
altitude I-parameter
, 0

airspeed B-parameter
, 0

vertical B-parameter
speed I-parameter
and 0
outside B-parameter
air I-parameter
temperature I-parameter
data 0
to 0
the 0
EFIS B-system
system I-system
. 0

Software 0
and 0
configuration 0
data 0
is 0
received 0
through 0
RS 0
- 0
232 0
digital B-parameter
interface I-parameter
. 0

The 0
ADC 0

is 0
located 0
inside 0
the 0
EFIS B-module
display I-module
unit I-module
. 0

Integrated B-module
avionics I-module
unit I-module
processes 0
all 0
the 0
data 0
that 0
is 0
shown 0
on 0
the 0
EFIS B-system
display I-system
. 0

Engine B-module
I I-module
/ I-module
0 I-module
unit I-module
is 0
integrated 0
into 0
the 0
EFIS B-module
display I-module
unit I-module
itself 0
. 0

It 0
is 0
a 0
microprocessor B-module
based I-module
unit I-module
that 0
receives 0
and 0
processes B-parameter
signals I-parameter
from 0
airframe B-system
and 0
engine B-component
sensors I-component
. 0

(0
CHT B-component
sensor I-component
, 0

RPM B-component

sensor I-component
, 0

OAT B-parameter
, 0

etc 0
. 0

) 0
Magnetometer B-component
: 0
it 0
senses 0
magnetic B-parameter
field I-parameter
information I-parameter
. 0

Data 0
is 0
sent 0
to 0
the 0
AHRS 0
for 0
processing 0
. 0

The 0
magnetometer B-module
receives 0
power 0
from 0
the 0
AHRS 0
and 0
communicates 0
with 0
it 0
using 0
RS 0
- 0
485 0
digital B-parameter
interface I-parameter
. 0

The 0
magnetometer B-module
is 0
located 0
in 0
the 0
left 0
outer 0
wing B-system
and 0
can 0
accessed 0
through 0
a 0
panel B-system
in 0

the 0
lower B-location
surface 0
of 0
the 0
wing B-system
. 0

Antenna 0
and 0
sensor 0
locations 0
The 0
GPS B-module
antenna I-module
is 0
located 0
on 0
the 0
upper B-location
side 0
of 0
the 0
fuselage B-system
. 0

The 0
COM B-module
antenna I-module
is 0
located 0
on 0
the 0
top B-location
of 0
the 0
vertical B-module
stabilizer I-module
. 0

The 0
NAV B-module
antenna I-module
is 0
located 0
underside B-location
of 0
the 0
fuselage B-system
. 0

The 0
pitot B-module
- I-module
static I-module
tube I-module
is 0
located 0
on 0
the 0
left 0
wing B-system
. I-system

The 0
magnetometer B-module
is 0
located 0
inside B-location
of 0
the 0
left 0
wing B-system
. 0

Antenna 0
types 0
Antenna B-component
and 0
sensor B-module
location 0
layout 0
Figure 0
4 0
â(□ 0
Antenna B-component
and 0
sensor B-module
locations 0
Qualification 0
of 0
the 0
equipment 0
The 0
general 0
approach 0
for 0
the 0
qualification 0
of 0
the 0
equipment 0
is 0
described 0
in 0
the 0
following 0
table 0
. 0

Three 0
type 0
of 0
equipment 0
are 0
identified 0
:
Approved 0
equipment 0
:
identifies 0
an 0
equipment 0
whose 0
design 0
meets 0
an 0
ETSO 0

standard 0
; 0
Standardized 0
equipment 0
: 0
identifies 0
an 0
equipment 0
whose 0
design 0
meets 0
an 0
industry 0
standard 0
; 0
Accepted 0
equipment 0
: 0
identifies 0
an 0
equipment 0
which 0
meets 0
a 0
certain 0
specification 0
defined 0
by 0
the 0
equipment 0
manufacturer 0
; 0
Note 0
: 0
the 0
above 0
definitions 0
have 0
a 0
meaning 0
limited 0
to 0
this 0
document 0
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FLOOR B-module
_ I-module
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CONNECTOR I-module
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DISP 0
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WIDTH B-parameter
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sensor B-module
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CONNECTOR I-module
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name 0
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FUSELAGE B-system
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VARIO B-module
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OFFSET B-parameter
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CONNECTOR I-module
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sensor B-module
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VERT B-parameter
_ I-parameter
DIAMETER I-parameter
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VERT B-parameter
_ I-parameter
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DIAMETER I-parameter
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FUSELAGE B-system
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VOLTAGE B-parameter
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OFFSET B-parameter
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Fuselage B-system
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component 0
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP 0
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LENGTH B-parameter
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fuselage B-system
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sensor B-module
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name 0
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FUSELAGE B-system
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VOLTAGE B-parameter
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OFFSET B-parameter
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CONNECTOR I-module
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parameter 0
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Flange B-module
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CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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3327 0
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component 0
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SIDE B-parameter
_ I-parameter
ANGLE I-parameter
" 0
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Flange B-module
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CLOCK B-parameter
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ANGLE I-parameter
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Flange B-module
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SIDE B-parameter
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ANGLE I-parameter
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CLOCK B-parameter
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ANGLE I-parameter
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Flange B-module
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SIDE B-parameter
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ANGLE I-parameter
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Flange B-module
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CLOCK B-parameter
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ANGLE I-parameter
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NegPropDir B-parameter
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Propeller B-system

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Direction B-parameter
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Propeller B-system
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NegPropType B-parameter
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Propeller B-system
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Prop B-parameter
_ I-parameter
type I-parameter
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Propeller B-system
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Prop B-parameter
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PosPropDir B-parameter
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Propeller B-system
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Direction B-parameter
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Propeller B-system
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Direction B-parameter
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PosPropType B-parameter
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Propeller B-system
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Prop B-parameter
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type I-parameter
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Propeller B-system
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Prop B-parameter
_ I-parameter
type I-parameter
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components 0
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component 0
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instance 0
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Arm B-system
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10403 0
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" 0

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, 0
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube B-component
" 0
, 0
```

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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
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tube B-component
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} 0
, 0
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{ 0
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component 0
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instance 0
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" 0
Arm B-system
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10403 0
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component 0
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type 0
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Tube B-component
" 0
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component 0
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choice 0
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03940D 0
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para 0
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tube B-component
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Arm B-system
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10403 0
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Tube B-component
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component 0
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03940D 0
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tube B-component
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component 0
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instance 0
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Arm B-system
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10403 0
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```

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component 0
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type 0
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Tube B-component
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component 0
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choice 0
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03940D 0
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para 0
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tube B-component
" 0
} 0
, 0
```

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{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0
```

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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
BatteryController B-control
" 0
, 0
```

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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
```

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BatteryController B-control
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} 0
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" 0
component 0
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instance 0
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Battery B-system
_ 0
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" 0
component 0
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type 0
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" 0
Battery B-system
" 0
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" 0
component 0
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choice 0
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" 0
TurnigyGraphene2200mAh3S75C 0
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component 0
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instance 0
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Cargo B-system
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component 0
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Cargo B-system
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component 0
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choice 0
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Cargo B-system
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component 0
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instance 0
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CargoCase B-module
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CargoCase B-module
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CargoCase B-module
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component 0
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instance 0
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Flange B-module
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Flange B-module
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flange B-module
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Flange B-module
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Flange B-module
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flange B-module
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Flange B-module
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Flange B-module
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flange B-module
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instance 0
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Flange B-module
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type 0
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Flange B-module
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component 0
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flange B-module
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component 0
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Fuselage B-system
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component 0
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type 0
" 0
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UAV 0
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Fuselage B-system
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" 0
component 0
_ 0
choice 0
" 0
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" 0
capsule 0
_ 0
```

fuselage B-system

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component 0
_ 0
instance 0
" 0
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" 0
MainHub 0

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component 0
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type 0
" 0
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Para 0

_ 0
Hub 0
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4 0
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component 0
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choice 0
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0394od 0

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hub 0
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{ 0
" 0
component 0
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instance 0
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Motor B-system
_ 0
1 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0
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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor B-system
_ 0
AT3530KV580 0
" 0
} 0
, 0
```

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{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
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" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0
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" 0
component 0
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choice 0
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t 0
_ 0
motor B-system
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AT3530KV580 0
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component 0
_ 0
instance 0
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: 0
" 0
Motor B-system
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" 0
component 0
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type 0
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" 0
Motor B-system
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component 0
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choice 0
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t 0
_ 0
motor B-system
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AT3530KV580 0
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} 0
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component 0
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instance 0
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Motor B-system
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" 0
component 0
_ 0
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type 0
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Motor B-system
" 0
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component 0
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choice 0
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_ 0
motor B-system
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AT3530KV580 0
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component 0
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instance 0
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Orient 0
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component 0
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type 0
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Orient 0
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" 0
component 0
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choice 0
" 0
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Orient 0
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{ 0
" 0
component 0
_ 0
instance 0
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: 0
" 0
Propeller B-system
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
18x8 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
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" 0
component 0
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type 0
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Propeller B-system
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component 0
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choice 0
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propellers B-system
_ 0
18x8 0
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component 0
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instance 0
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Propeller B-system
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3 0
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, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
18x8 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
```

```
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
18x8 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
```

```
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Autopilot B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
```

```
, 0
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Current B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
GPS B-module
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0
```

```
" 0
connections 0
```

```
" 0
: 0
[ 0
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
```

```
" 0
Arm B-system
_ 0
10403 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
3 0
" 0
, 0

" 0
```

```
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0
```



```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
```

```
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
```

```
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
```

```
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
```

```
PowerBus B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```

" 0
Flange B-module
_ 0
3327 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
4 0
" 0
, 0

" 0

```



```
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
```

```

_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0

```

```

conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0

```

```
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
```

```
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
```

```
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
```

SensorConnector B-component

```
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
```

```
_ 0
ci 0
" 0
: 0
" 0
```

Fuselage B-system

```
_ 0
1 0
" 0
, 0
```

```
" 0
from 0
_ 0
```

```
conn 0
" 0
: 0
" 0
```

FloorConnector1 B-component

```
" 0
, 0
```

```
" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
```

Battery B-system

```
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
```

Bottom B-system

_ I-system

Connector I-system

```
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
```

```
_ 0
ci 0
" 0
: 0
```

```

" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0

```



```

from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
```

```

_ 0
10403 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
3 0
" 0
, 0

" 0

```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0

```

```

IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0

```

```
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
```

```

" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0

```

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from 0
_ 0
conn 0
" 0
: 0
" 0
ORIENTCONN B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
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: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
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conn 0
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Orient B-component
_ I-component
Connector I-component
" 0
} 0
, 0

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from 0
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ci 0
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: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
1 0
" 0
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from 0
_ 0
conn 0
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" 0
SideConnector B-component
" 0
, 0

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to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
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" 0
EndConnection B-component
" 0
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ci 0
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" 0
Flange B-module
_ 0
3327 0
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conn 0
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SideConnector B-component
" 0
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to 0
_ 0
ci 0
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: 0
" 0
Arm B-system
_ 0
10403 0
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_ 0
2 0
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to 0
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conn 0
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" 0
EndConnection B-component
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Flange B-module
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3327 0
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conn 0
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" 0
SideConnector B-component
" 0
, 0

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to 0
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ci 0
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" 0
Arm B-system
_ 0
10403 0
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" 0
to 0
_ 0
conn 0
" 0
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: 0
" 0
EndConnection B-component
" 0
} 0
, 0

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" 0
from 0
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ci 0
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" 0
Flange B-module
_ 0
3327 0
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from 0
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conn 0
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" 0
SideConnector B-component
" 0
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to 0
_ 0
ci 0
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" 0
Arm B-system
_ 0
10403 0
_ 0
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" 0
to 0
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conn 0
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" 0
EndConnection B-component
" 0
} 0
, 0

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" 0
from 0
```

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_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
```

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from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
```

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_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
6695 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
} 0
, 0
```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0

```



```
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3327 0
```

```
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-component
_ 0
3327 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```

```

: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```

" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0

```

```
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
```

```
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0

```



```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
```

```
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
```

```

" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system

```

```
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
2 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
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" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
```

```
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
_ 0
1 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
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" 0
BaseConnection B-component
" 0
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" 0
to 0
_ 0
ci 0
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: 0
" 0
MainHub B-module
_ 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
10403 0
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_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
```

```

: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0

```

```
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0
```



```

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0

```

```

" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop 0
_ 0
Connector 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0

```

: 0
" 0
ORIENTCONN B-component
" 0
} 0
] 0
} 0

WING B-parameter
LOAD I-parameter
CALCULATION 0
(0
Example 0
document 0
for 0
LSA 0
applicants 0
â(0
v1 0
of 0
08 0
. 0

03 0
. 0

16 0
) 0
Introduction 0
This 0
document 0
calculates 0
the 0
flight B-parameter
loads I-parameter
on 0
the 0
wings B-system
of 0
the 0
ABCD 0
aircraft B-asset
. 0

The 0
requirements 0
are 0
referenced 0
in 0
the 0
compliance 0
checklist 0
of 0
the 0
certification 0
programme 0
ABCD 0
- 0
CP 0
- 0
00 0
. 0

Within 0

this 0
document 0
the 0
loads 0
on 0
the 0
wings B-system
are 0
determined 0
throughout 0
the 0
whole 0
flight B-parameter
envelope I-parameter
and 0
for 0
the 0
design B-parameter
weights I-parameter
as 0
determined 0
in 0
under 0
all 0
loading B-parameter
conditions 0
. 0

The 0
simplified 0
criteria 0
of 0
requirement 0
X 0
. 0

1 0
have 0
not 0
been 0
used 0
for 0
these 0
calculations 0
. 0

The 0
Loads B-parameter
are 0
calculated 0
using 0
literature 0
methods 0
taken 0
from 0
the 0
documents 0
referenced 0
in 0
chapter 0
1 0
. 0

The 0

following 0
assumptions 0
are 0
made 0
: 0
Applicable 0
to 0
LSA 0
only 0
; 0
no 0
compressibility 0
effects 0
; 0
conventional 0
configuration 0
(0
e 0
. 0

g 0
. 0

no 0
tandem 0
aircraft B-asset
, 0

bi 0
- 0
plane 0
or 0
canard 0
) 0
; 0
no 0
pitching 0
moment 0
of 0
the 0
horizontal B-system
tail I-system
(0
symmetrical 0
profile 0
) 0
; 0
no 0
winglets 0
, 0

no 0
wing B-component
tip I-component
tanks I-component
; 0
no 0
sweep B-parameter
, 0

straight 0
leading 0
edge 0
, 0

no 0
twist 0
, 0

constant 0
profile B-parameter
, 0

no 0
dihedral B-parameter
; 0
effect 0
of 0
the 0
wing B-parameter
deformation I-parameter
on 0
the 0
loads B-parameter
not 0
considered 0
; 0
no 0
spoilers B-component
or 0
airbrakes B-component
; 0
landing B-system
gear I-system
attached 0
to 0
fuselage B-system
; 0
no 0
wing B-component
struts I-component
(0
cantilever B-system
wing I-system
) 0
; 0
References 0
List 0
of 0
Abbreviations 0
CG 0
centre B-parameter
of I-parameter
gravity I-parameter
LE 0
leading B-location
edge I-location
ISA 0
international 0
standard 0
atmosphere 0
by 0
International 0
Organisation 0
for 0
Standardisation 0
KEAS 0
knots B-parameter

equivalent I-parameter
airspeed I-parameter
MAC 0
mean I-parameter
aerodynamic I-parameter
chord I-parameter
MTOW 0
maximum B-parameter
take I-parameter
- I-parameter
off I-parameter
weight I-parameter
SI 0
international 0
system 0
of 0
units 0
angle B-parameter
of I-parameter
attack I-parameter
of 0
the 0
wing B-system
[0
deg 0
] 0
local B-parameter
angle I-parameter
of I-parameter
attack I-parameter
of 0
the 0
station 0
i 0
[0
deg 0
] 0
wing B-parameter
zero I-parameter
lift I-parameter
angle I-parameter
of I-parameter
attack I-parameter
[0
deg 0
] 0
profile B-parameter
zero I-parameter
lift I-parameter
angle I-parameter
of I-parameter
attack I-parameter
[0
deg 0
] 0
a 0
lift 0
curve 0
slope 0
[0
1 0
/ 0
deg 0
] 0

AR 0
wing B-parameter
aspect I-parameter
ratio I-parameter
calculated 0
by 0
[0
] 0
b 0
wing B-parameter
span I-parameter
[0
m 0
] 0
average B-parameter
wing I-parameter
span I-parameter
at 0
station 0
i 0
(0
mid 0
span 0
position 0
of 0
station 0
) 0
[0
m 0
] 0
wing B-parameter
span I-parameter
position I-parameter
of 0
MAC 0
[0
m 0
] 0
average B-parameter
fuselage I-parameter
width I-parameter
at 0
wing 0
section 0
[0
m 0
] 0
maximum B-parameter
fuselage I-parameter
width I-parameter
(0
equals 0
) 0
[0
m 0
] 0
local I-parameter
angle I-parameter
between 0
resulting 0
force 0
and 0
normal 0
force 0

at 0
station 0
[0
deg 0
] 0
average B-parameter
chord I-parameter
at 0
station 0
i 0
[0
m 0
] 0
mean B-parameter
aerodynamic I-parameter
chord I-parameter
[0
m 0
] 0
chord B-parameter
at I-parameter
wing I-parameter
root I-parameter
[0
m 0
] 0
chord B-parameter
at I-parameter
wing I-parameter
tip I-parameter
[0
m 0
] 0
shear 0
axis 0
relative 0
position 0
as 0
a 0
fraction 0
of 0
local B-component
wing I-component
chord I-component
[0
] 0
drag B-parameter
coefficient I-parameter
[0
] 0
lift I-parameter
coefficient I-parameter
[0
] 0
fuselage B-parameter
pitching I-parameter
moment I-parameter
coefficient I-parameter
[0
] 0
zero B-parameter
lift I-parameter
profile I-parameter
pitching I-parameter

moment I-parameter
coefficient I-parameter
[0
] 0
zero B-parameter
lift I-parameter
wing I-parameter
pitching I-parameter
moment I-parameter
coefficient I-parameter
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D 0
drag B-parameter
force I-parameter
on 0
the 0
wings B-system
[0
N B-measurement
] 0
d 0
span B-parameter
wise I-parameter
drag I-parameter
line I-parameter
loading I-parameter
[0
] 0
wing B-parameter
sweep I-parameter
of 0
the 0
quarter 0
chord 0
line 0
[0
deg 0
] 0
g 0
gravity B-parameter
acceleration I-parameter
[0
m B-measurement
/ I-measurement
s2 I-measurement
] 0
fuselage I-parameter
moment I-parameter
factor I-parameter
[0
] 0
total B-parameter
wing I-parameter
lift I-parameter
force I-parameter
(0
on 0
both 0
wings 0
) 0
[0
N B-measurement
] 0

local B-parameter
lift I-parameter
at 0
station 0
i 0
[0
N B-measurement
] 0
lift B-parameter
line I-parameter
loading I-parameter
on 0
the 0
wing B-system
[0
N B-measurement
/ I-measurement
m I-measurement
] 0
total B-parameter
horizontal B-system
tail I-system
lift I-parameter
force I-parameter
[0
N B-measurement
] 0
total B-parameter
fuselage B-system
length I-parameter
[0
m B-measurement
] 0
fuselage B-parameter
length I-parameter
in 0
front 0
of 0
wing 0
quarter 0
mean 0
aerodynamic 0
chord 0
point 0
[0
m B-measurement
] 0
taper B-parameter
ratio I-parameter
(0
equals 0
) 0
[0
] 0
wing B-parameter
pitching I-parameter
moment I-parameter
with 0
lift 0
acting 0
on 0
its 0
aerodynamic B-parameter
centre I-parameter

[0
N B-measurement
] 0
moments B-parameter
around 0
y 0
axis 0
[0
Nm B-measurement
] 0
normal B-parameter
force I-parameter
[0
N B-measurement
] 0
n 0
load I-parameter
factor I-parameter
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] 0
num 0
total 0
number 0
of 0
stations 0
of 0
a 0
single 0
wing B-system
; 0
num 0
= 0
10 0
[0
] 0
density B-parameter
of I-parameter
ambient I-parameter
air I-parameter
at 0
a 0
specific 0
altitude B-parameter
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] 0
running B-parameter
horizontal I-parameter
shear I-parameter
force I-parameter
at 0
station 0
i 0
(0
direction 0
parallel 0
to 0
drag 0
force 0
) 0
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] 0
incremental B-parameter
horizontal I-parameter

shear I-parameter
force I-parameter
at 0
station 0
i 0
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direction 0
parallel 0
to 0
drag 0
force 0
) 0
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] 0
running I-parameter
vertical I-parameter
shear I-parameter
force I-parameter
at 0
station 0
I 0
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direction 0
parallel 0
to 0
lift 0
force 0
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incremental I-parameter
vertical I-parameter
shear I-parameter
force I-parameter
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station 0
i 0
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direction 0
parallel 0
to 0
lift 0
force 0
) 0
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N B-measurement
] 0
local B-parameter
resulting I-parameter
force I-parameter
at 0
station 0
i 0
[0
N B-measurement
] 0
S 0
wing B-parameter
area I-parameter
(0
not 0
including 0

wing B-system
carry 0
- 0
through 0
) 0
[0
] 0
local B-parameter
tangential I-parameter
force I-parameter
at 0
station 0
i 0
[0
N B-measurement
] 0
total 0
torsion 0
around 0
elastic 0
axis 0
of 0
the 0
wing 0
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at 0
wing 0
root 0
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] 0
local 0
torsion 0
around 0
elastic 0
axis 0
of 0
the 0
wing 0
at 0
station 0
i 0
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mN B-measurement
] 0
incremental 0
torsion 0
around 0
elastic 0
axis 0
of 0
the 0
wing 0
at 0
station 0
i 0
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mN B-measurement
] 0
dynamic 0
viscosity 0
(0
for 0

Reynolds 0
number 0
) 0
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v 0
airspeed B-parameter
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m 0
/ 0
s 0
] 0
W 0
total I-parameter
aircraft I-parameter
weight I-parameter
[0
kg 0
] 0
local B-parameter
weight I-parameter
of I-parameter
the I-parameter
wing I-parameter
at 0
station 0
i 0
(0
with 0
no 0
fuel 0
or 0
payload 0
) 0
[0
kg B-measurement
/ I-measurement
m2 I-measurement
] 0
total I-parameter
weight I-parameter
of I-parameter
a I-parameter
single I-parameter
wing I-parameter
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with 0
no 0
fuel 0
or 0
payload 0
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kg B-measurement
] 0
local B-parameter
weight I-parameter
of I-parameter
the I-parameter
wing I-parameter
at 0
station 0
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no 0
fuel 0
or 0
payload 0
) 0
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kg B-measurement
/ I-measurement
m2 I-measurement
x 0
longitudinal 0
axis 0
of 0
the 0
aircraft I-asset
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m B-measurement
distance 0
to 0
HT 0
quarter 0
chord 0
line 0
from 0
wing 0
LE 0
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at 0
mean 0
aerodynamic 0
chord 0
) 0
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distance B-parameter
to 0
aircraft 0
centre 0
of 0
gravity 0
from 0
wing B-system
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aerodynamic 0
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distance B-parameter
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gravity 0
from 0
wing B-system

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gravity 0
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aerodynamic 0
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fuselage 0
pitching 0
moment 0
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aerodynamic 0
centre 0
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wing B-system
with 0
respect 0
to 0
wing 0

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chord 0
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aerodynamic 0
centre 0
of 0
the 0
wing 0
- 0
fuselage 0
combination 0
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respect 0
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wing B-system
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mean 0
aerodynamic 0
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aerodynamic 0
centre 0
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wing B-system
with 0
respect 0
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LE 0
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centre 0
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pressure 0
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wing 0
from 0
wing 0
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aerodynamic 0
chord 0
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centre 0
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pressure 0
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fuselage 0
combination 0
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shear 0
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wing B-system
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aerodynamic 0
chord 0
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lateral 0
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of 0
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aircraft 0
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span 0

wise 0
direction 0
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m B-measurement
] 0
average 0
wing 0
span 0
position 0
at 0
station 0
i 0
[0
m B-measurement
] 0
spanwise 0
width 0
of 0
station 0
i 0
[0
m B-measurement
] 0
z 0
vertical 0
axis 0
of 0
the 0
aircraft 0
[0
m B-measurement
] 0
Throughout 0
this 0
document 0
SI 0
- 0
units 0
are 0
used 0
with 0
speeds 0
expected 0
as 0
m B-measurement
/ I-measurement
s I-measurement
and 0
angles 0
in 0
degrees 0
if 0
not 0
stated 0
otherwise 0
. 0

Requirements 0
This 0
document 0
covers 0
the 0
following 0

certification 0
specifications 0
requirements 0
: 0
Table 0
1 0
â 0
Requirements 0
Input 0
data 0
The 0
values 0
shown 0
below 0
are 0
derived 0
from 0
design 0
data 0
or 0
other 0
compliance 0
documents 0
for 0
this 0
particular 0
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. 0

Load 0
Calculation 0
The 0
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have 0
been 0
followed 0
: 0
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, 0

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External B-parameter
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: 0
for 0
all 0
load 0
cases 0
, 0

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loads 0
on 0
the 0
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are 0
calculated 0
; 0
Internal B-parameter
Loads I-parameter
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: 0
for 0
the 0
same 0
load B-parameter
cases 0
the 0
internal 0
loads 0
in 0
the 0
wing B-system
(0
shear B-parameter
, 0

bending B-parameter
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, 0

torsion B-parameter
) 0
are 0

calculated 0
considering 0
also 0
the 0
effect 0
of 0
the 0
inertia B-parameter
of 0
the 0
wing B-system
; 0
Load 0
cases 0
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3 0
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all 0
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cases 0
corresponding 0
to 0
the 0
points 0
of 0
the 0
flight B-parameter
envelope I-parameter
and 0
design B-parameter
weights I-parameter
and 0
centres B-parameter
of I-parameter
gravity I-parameter
. 0

Important 0
: 0
Loads 0
corresponding 0
to 0
flap 0
deflected 0
are 0
considered 0
not 0
critical 0
for 0
the 0
wing B-system
and 0
will 0
not 0
be 0
calculated 0
in 0
this 0
document 0
(0
flap B-system
loads I-parameter
will 0
be 0

calculated 0
instead 0
for 0
the 0
flap B-system
verification I-parameter
) 0
. 0

Loads 0
corresponding 0
to 0
landing 0
conditions 0
are 0
considered 0
not 0
critical 0
for 0
the 0
wing B-system
(0
since 0
the 0
landing B-system
gear I-system
is 0
attached 0
to 0
the 0
fuselage B-system
and 0
no 0
tip B-component
tanks I-component
or 0
other 0
large 0
masses 0
under 0
the 0
wing B-system
) 0
and 0
will 0
not 0
be 0
calculated 0
in 0
this 0
document 0
. 0

For 0
the 0
gust B-parameter
load I-parameter
calculations 0
the 0
wing B-system
and 0
horizontal B-system
tail I-system
are 0

treated 0
together 0
according 0
to 0
X3 0
. 0

1 0
in 0
ref 0
. 0

. 0

The 0
resulting 0
gust B-parameter
load I-parameter
accelerations 0
are 0
therefore 0
calculated 0
using 0
the 0
slope 0
of 0
the 0
lift 0
curve 0
of 0
the 0
aeroplane B-asset
(0
see 0
also 0
) 0
and 0
treated 0
as 0
balanced 0
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conditions 0
within 0
this 0
document 0
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Note 0
: 0
These 0
assumptions 0
have 0
been 0
considered 0
realistic 0
for 0
this 0
aeroplane B-asset
but 0
they 0
are 0
not 0
of 0
generic 0

validity 0
. 0

It 0
is 0
the 0
responsibility 0
of 0
the 0
applicant 0
to 0
define 0
the 0
set 0
of 0
assumptions 0
which 0
can 0
be 0
acceptable 0
for 0
the 0
particular 0
aeroplane B-asset
. 0

Altitude B-parameter
:
The 0
maximum B-parameter
permissible I-parameter
operational I-parameter
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is 0
13000ft 0
. 0

Despite 0
the 0
CS 0
- 0
LSA 0
requirements 0
do 0
not 0
require 0
to 0
accounts 0
for 0
the 0
effects 0
of 0
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, 0

such 0
effects 0
have 0
been 0
considered 0
up 0
to 0
10000 0
ft B-measurement

. 0

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fact 0
the 0
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factor 0
have 0
been 0
calculated 0
at 0
such 0
altitude B-parameter
. 0

This 0
is 0
considered 0
acceptable 0
since 0
it 0
covers 0
the 0
operational 0
range 0
within 0
which 0
the 0
aeroplane B-asset
will 0
fly 0
most 0
of 0
the 0
time 0
. 0

(0
Note 0
: 0
the 0
CS 0
- 0
LSA 0
requirement 0
does 0
not 0
require 0
to 0
account 0
for 0
the 0
effects 0
of 0
altitude B-parameter
. 0

Calculating 0
the 0
loads B-parameter
at 0
sea 0
level 0

would 0
be 0
acceptable 0
. 0

In 0
this 0
case 0
, 0

the 0
choice 0
to 0
consider 0
such 0
effect 0
up 0
to 0
10000 0
ft B-measurement
is 0
a 0
decision 0
of 0
a 0
designer 0
, 0

which 0
would 0
be 0
accepted 0
by 0
the 0
team 0
. 0

) 0
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1 0
 $\hat{\alpha}$ 0
Reference 0
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envelope I-parameter
(0
WMTOW 0
, 0

FL 0
100 0
) 0
Table 0
2 0
 $\hat{\alpha}$ 0
Design B-parameter
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(0
explained 0
in 0
ref 0
. 0

) 0
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â(0
Load B-parameter
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Note 0
: 0
For 0
this 0
revision 0
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example 0
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, 0

asymmetric 0
load 0
cases 0
have 0
not 0
been 0
calculated 0
. 0

Loads B-parameter
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aeroplane B-asset
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and 0
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Aeroplane B-asset
reference 0
axes 0
The 0
origin 0
is 0
located 0
at 0
the 0
airplane B-asset
axis 0
of 0
symmetry 0
(0
x 0
axis 0
) 0
with 0
the 0
y 0
axis 0
passing 0
through 0
the 0
leading B-location
edge I-location
of 0
the 0

mean B-parameter
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of 0
the 0
wing B-system
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Symmetrical 0
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The 0
loads B-parameter
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the 0
wing B-module
structure I-module
arising 0
from 0
symmetrical 0
flight 0
manoeuvres 0
according 0
to 0
requirements 0
5 0
. 0

2 0
. 0

2 0
and 0
5 0
. 0

2 0
. 0

3 0
are 0
determined 0
within 0
this 0
chapter 0
. 0

The 0
following 0
abbreviations 0
are 0
used 0
within 0
this 0
chapter 0
(0
all 0
measurements 0
with 0
respect 0
to 0
wing B-parameter
leading I-parameter

edge I-parameter
at 0
wing B-parameter
mean I-parameter
aerodynamic I-parameter
chord I-parameter
, 0

forces 0
acting 0
according 0
to 0
arrows 0
are 0
positive 0
) 0
x 0
longitudinal B-parameter
axis I-parameter
of I-parameter
the I-parameter
aircraft I-parameter
z 0
vertical B-parameter
axis I-parameter
of I-parameter
the I-parameter
aircraft I-parameter
CG 0
aircraft B-parameter
centre I-parameter
of I-parameter
gravity I-parameter
HT 0
horizontal B-system
tail I-system
L 0
lift B-parameter
force I-parameter
on 0
the 0
wings B-system
horizontal B-parameter
tail I-parameter
balancing I-parameter
force I-parameter
(0
HT B-parameter
lift I-parameter
force I-parameter
) 0
zero B-parameter
lift I-parameter
wing I-parameter
pitching I-parameter
moment I-parameter
coefficient I-parameter
(0
lift 0
force 0
assumed 0
to 0
act 0
on 0

) 0
total B-parameter
pitching I-parameter
moment I-parameter
(0
must 0
be 0
zero 0
for 0
equilibrium 0
) 0
n 0
W 0
aircraft B-parameter
total I-parameter
weight I-parameter
force I-parameter
(0
= 0
m B-measurement
* I-measurement
n I-measurement
* I-measurement
g I-measurement
) 0
distance B-parameter
to 0
HT 0
quarter 0
chord 0
line 0
(0
of 0
HT 0
MAC 0
as 0
quarter 0
chord 0
line 0
) 0
distance B-parameter
to 0
aircraft B-asset
centre 0
of 0
gravity 0
distance B-parameter
to 0
wing B-component
fuselage I-component
combination I-component
centre I-component
of 0
pressure B-parameter
(0
lift B-parameter
force I-parameter
acting 0
on 0
not 0
generating 0
any 0
pitching 0
moment 0

) 0
distance B-parameter
to 0
wing B-component
fuselage I-component
combination I-component
aerodynamic I-component
centre I-component
(0
lift B-parameter
force I-parameter
acting 0
on 0
generating 0
constant 0
pitching 0
moment 0
) 0
The 0
external B-parameter
forces I-parameter
and 0
moments B-parameter
acting 0
on 0
the 0
aeroplane B-asset
in 0
a 0
balanced 0
flight 0
condition 0
have 0
been 0
determined 0
. 0

The 0
simplified 0
scheme 0
in 0
Figure 0
3 0
is 0
considered 0
. 0

The 0
aeroplane B-asset
is 0
reduced 0
to 0
the 0
wing B-system
and 0
the 0
Horizontal B-system
tail I-system
. 0

Figure 0
3 0
â(0
Aeroplane B-asset

simplified 0
scheme 0
The 0
following 0
forces B-parameter
are 0
considered 0
and 0
placed 0
in 0
equilibrium 0
:
Lift B-parameter
on 0
the 0
wing B-system
;
Horizontal B-system
tail I-system
balancing B-parameter
load I-parameter
according 0
to 0
requirement 0
5 0
. 0

2 0
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2 0
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1 0
;
Weight B-parameter
of 0
the 0
aeroplane B-asset
;
For 0
the 0
calculation 0
of 0
the 0
equilibrium 0
, 0

the 0
z B-parameter
- I-parameter
axis I-parameter
of 0
the 0
aeroplane B-asset
is 0
assumed 0
aligned 0
with 0
the 0
direction 0
of 0
the 0
gravity B-parameter

. 0

In 0
a 0
second 0
stage 0
(0
section 0
6 0
. 0

4 0
) 0
, 0

once 0
the 0
forces B-parameter
are 0
calculated 0
, 0

the 0
corresponding 0
angle 0
of 0
attack 0
will 0
be 0
considered 0
for 0
the 0
calculation 0
of 0
the 0
correct 0
direction 0
of 0
the 0
forces B-parameter
on 0
the 0
wing B-system
; 0
Influence 0
of 0
thrust B-parameter
and 0
drag B-parameter
(0
of 0
the 0
total 0
airplane B-asset
) 0
are 0
considered 0
negligible 0
at 0
this 0
stage 0
of 0
calculation 0
of 0

the 0
vertical B-parameter
forces I-parameter
. 0

The 0
effect 0
of 0
the 0
drag B-parameter
will 0
be 0
considered 0
in 0
a 0
second 0
stage 0
on 0
the 0
wing B-system
only 0
; 0

The 0
wing B-parameter
lift I-parameter
is 0
assumed 0
to 0
act 0
on 0
the 0
aerodynamic B-parameter
centre I-parameter
of 0
the 0
wing B-system
as 0
a 0
starting 0
point 0
. 0

The 0
contribution 0
of 0
the 0
fuselage B-system
is 0
accounted 0
for 0
as 0
a 0
shift 0
of 0
the 0
point 0
of 0
aerodynamic B-parameter
centre I-parameter
. 0

This 0
is 0
better 0

explained 0
in 0
section 0
6 0
. 0

1 0
. 0

5 0
. 0

The 0
HT B-parameter
lift I-parameter
is 0
applied 0
at 0
25 0
% 0
of 0
the 0
chord 0
; 0
Effects 0
of 0
structural 0
flexure 0
are 0
considered 0
negligible 0
; 0
Angular B-parameter
accelerations I-parameter
are 0
disregarded 0
until 0
the 0
aeroplane B-asset
has 0
attained 0
the 0
prescribed 0
load B-parameter
factor I-parameter
(0
according 0
to 0
requirement 0
5 0
. 0

2 0
. 0

2 0
. 0

3 0
) 0
; 0
Note 0
: 0
The 0

assumptions 0
above 0
provide 0
a 0
clear 0
simplification 0
to 0
the 0
calculations 0
. 0

The 0
fact 0
that 0
they 0
are 0
used 0
here 0
does 0
not 0
mean 0
that 0
they 0
can 0
always 0
be 0
used 0
. 0

It 0
is 0
the 0
responsibility 0
of 0
the 0
designer 0
to 0
make 0
the 0
appropriate 0
assumptions 0
and 0
to 0
agree 0
them 0
with 0
the 0
Agency 0
. 0

Based 0
on 0
the 0
above 0
assumptions 0
the 0
following 0
equilibrium 0
equations 0
are 0
set 0
. 0

The 0

basis 0
system 0
of 0
equations 0
include 0
4 0
equations 0
with 0
the 0
following 0
unknowns 0
:
L 0
:
wing B-parameter
Lift I-parameter
(
including 0
fuselage B-system
)
CL 0
:
wing B-parameter
lift I-parameter
coefficient I-parameter
LHT 0
:
HT B-parameter
lift I-parameter
XAC 0
f 0
+ 0
w 0
:
aerodynamic B-parameter
centre I-parameter
w 0
+ 0
f 0
(
wing B-system
+ 0
fuselage B-system
;
see 0
sec 0
. 0

6 0
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1 0
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3 0
and 0
6 0
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Equilibrium 0
of 0
moments B-parameter
(0
f 0
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6 0
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1 0
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Equilibrium 0
of 0
forces B-parameter
(0
f 0
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6 0
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wing B-system
pitching B-parameter
moment I-parameter
(0
f 0
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6 0
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(0
for 0

wing B-system
) 0

wing B-parameter
lift I-parameter

coefficient I-parameter
(0
f 0
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6 0

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Aerodynamic B-parameter

centre I-parameter

The 0

aerodynamic B-parameter

centre I-parameter

is 0

a 0

characteristic 0

of 0

the 0

wing B-system

and 0

it 0

is 0

defined 0

as 0

the 0

point 0

about 0

which 0

the 0

pitch B-parameter

moment I-parameter

does 0

not 0

change 0

with 0

changes 0

of 0

the 0

angle B-parameter

of I-parameter

attack I-parameter

throughout 0

the 0

linear 0

range 0

of 0

the 0

lift 0

curve 0

. 0

According 0

to 0

the 0

aerodynamic B-parameter

centre I-parameter

can 0

be 0

estimated 0

by 0

adding 0
a 0
correction B-parameter
factor I-parameter
(0
shift 0
) 0
to 0
the 0
quarter 0
chord 0
point 0
of 0
the 0
mean B-parameter
aerodynamic I-parameter
chord I-parameter
. 0

The 0
correction 0
factor 0
is 0
a 0
function 0
of 0
the 0
maximum 0
thickness 0
of 0
the 0
profile 0
which 0
in 0
this 0
wing B-system
is 0
16 0
% 0
of 0
the 0
chord 0
. 0

For 0
a 0
tapered 0
wing B-system
, 0

the 0
mean B-parameter
aerodynamic I-parameter
chord I-parameter
corresponds 0
to 0
the 0
mean 0
chord 0
and 0
it 0
is 0
(0
see 0

) 0
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For 0
this 0
wing 0
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correction 0
factor 0
is 0
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mean 0
aerodynamic 0
centre 0
of 0
the 0
wing B-system
without 0
fuselage B-system
is 0
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6 0
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Pitching B-parameter
moment I-parameter
of 0
the 0
wing B-system
The 0
pitching B-parameter
moment I-parameter
of 0
the 0
profile 0

from 0
two 0
dimensional 0
wind 0
tunnel 0
test 0
data 0
does 0
not 0
represent 0
the 0
moment 0
of 0
a 0
three 0
dimensional 0
with 0
the 0
profile 0
. 0

The 0
pitching B-parameter
moment I-parameter
of 0
the 0
whole 0
wing B-system
is 0
calculated 0
according 0
to 0
DATCOM 0
method 0
1 0
(0
formula 0
4 0
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a 0
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a 0
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6 0
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1 0
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4 0
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1 0
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With 0
quarter 0
chord 0
sweep B-parameter
angle I-parameter
of 0
the 0
wing B-system
. 0

Influence 0
of 0
the 0
fuselage B-system
The 0
fuselage B-system
is 0
assumed 0
to 0
provide 0
negligible 0
lift B-parameter
. 0

On 0
the 0
other 0
hand 0
, 0

its 0
influence 0
on 0
the 0
aeroplane B-asset
equilibrium 0
is 0
accounted 0
for 0
as 0
a 0
contribution 0
to 0
the 0

pitching B-parameter
moment I-parameter
. 0

In 0
particular 0
the 0
following 0
formula 0
(0
taken 0
from 0
ref 0
) 0
provides 0
the 0
shift 0
of 0
the 0
aerodynamic B-parameter
centre I-parameter
of 0
the 0
wing B-system
due 0
to 0
fuselage B-system
pitching B-parameter
moment I-parameter
. 0

(0
f 0
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6 0
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1 0
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5 0
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1 0
) 0
With 0
and 0
as 0
input 0
to 0
the 0
diagram 0
in 0
yielding 0
and 0
a 0
correction 0
factor 0
of 0
1 0
. 0

05 0

due 0
to 0
low 0
- 0
wing 0
configuration 0
. 0

The 0
shift 0
of 0
aerodynamic B-parameter
centre I-parameter
, 0

due 0
to 0
the 0
fuselage B-system
, 0

is 0
calculated 0
as 0
:
(0
f 0
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6 0
. 0

1 0
. 0

5 0
. 0

2 0
) 0
Forces B-parameter
and 0
moments B-parameter
acting 0
on 0
the 0
wings B-system
In 0
previous 0
chapter 0
the 0
Lift B-parameter
and 0
the 0
lift B-parameter
coefficient 0
have 0
been 0
determined 0
. 0

Having 0
those 0
as 0

inputs 0
, 0

the 0
drag B-parameter
and 0
angle B-parameter
of I-parameter
attack I-parameter
are 0
calculated 0
. 0

Total B-parameter
wing I-parameter
drag I-parameter
coefficient I-parameter
(0
FIG 0
. 0

X2 0
. 0

1 0
of 0
) 0
(0
f 0
. 0

6 0
. 0

2 0
. 0

1 0
) 0
Drag B-parameter
force I-parameter
on 0
the 0
wings B-system
(0
FIG 0
. 0

X2 0
. 0

1 0
of 0
) 0
(0
f 0
. 0

6 0
. 0

2 0
. 0

2 0
) 0
The 0
angle B-parameter
of I-parameter
attack I-parameter
(0
using 0
as 0
reference 0
instead 0
of 0
) 0
for 0
each 0
load B-module
case I-module
is 0
calculated 0
using 0
the 0
following 0
formula 0
:
(0
FIG 0
. 0

X2 0
. 0

1 0
of 0
) 0
(0
f 0
. 0

6 0
. 0

2 0
. 0

3 0
) 0
Where 0
:
lift B-parameter
curve I-parameter
slope I-parameter
(0
FIG 0
. 0

X2 0
. 0

1 0
of 0
) 0
(0
f 0
. 0

6 0
. 0

2 0
. 0

4 0
) 0
and 0
the 0
zero B-parameter
- I-parameter
lift I-parameter
angle I-parameter
of 0
the 0
wing B-system
is 0
taken 0
as 0
. 0

This 0
value 0
is 0
the 0
zero B-parameter
- I-parameter
lift I-parameter
angle I-parameter
of 0
the 0
corresponding 0
wing B-system
profile 0
, 0

taken 0
from 0
ref 0
(0
p 0
. 0

236 0
) 0
. 0

The 0
results 0
of 0
this 0
chapter 0
for 0
the 0
load B-parameter
cases I-parameter
highlighted 0
in 0
subchapter 0
0 0
are 0
presented 0

within 0
the 0
table 0
below 0
. 0

Table 0
4 0
 $\hat{\alpha}$ 0
Loads B-parameter
on 0
the 0
aeroplane B-asset
Unsymmetrical 0
flight 0
conditions 0
Note 0
:
These 0
load B-parameter
cases I-parameter
will 0
not 0
be 0
calculated 0
within 0
this 0
revision 0
of 0
the 0
example 0
document 0
. 0

Wing B-system
load I-parameter
distribution 0
After 0
having 0
calculated 0
the 0
total B-parameter
load I-parameter
on 0
the 0
wing B-system
, 0

the 0
load B-parameter
distribution I-parameter
is 0
calculated 0
and 0
shown 0
in 0
the 0
following 0
sections 0
. 0

Every 0
load B-parameter
is 0

assumed 0
to 0
act 0
on 0
the 0
span 0
wise 0
centre 0
of 0
each 0
station 0
. 0

Figure 0
4 0
â₀ 0
Location 0
of 0
wing B-system
stations 0
Wing B-system
lift I-parameter
distribution I-parameter
The 0
wing B-system
lift I-parameter
distribution I-parameter
is 0
calculated 0
here 0
. 0

The 0
lift B-parameter
contribution I-parameter
of 0
the 0
fuselage B-system
is 0
assumed 0
to 0
be 0
zero 0
(0
this 0
means 0
that 0
the 0
load B-parameter
which 0
would 0
act 0
in 0
correspondence 0
of 0
the 0
fuselage B-system
, 0

is 0
shifted 0
externally 0
to 0
the 0

wing B-system
) 0
leading 0
to 0
more 0
conservative 0
results 0
on 0
the 0
wing B-system
loads B-parameter
since 0
they 0
provide 0
higher 0
bending 0
. 0

Note 0
: 0
Alternatively 0
, 0

the 0
applicant 0
would 0
have 0
to 0
determine 0
the 0
reduction 0
in 0
wing B-parameter
lift I-parameter
distribution I-parameter
at 0
the 0
location 0
of 0
the 0
fuselage B-system
and 0
demonstrate 0
the 0
validity 0
of 0
the 0
approach 0
. 0

Figure 0
5 0
 $\hat{\alpha}$ 0
Effect 0
of 0
the 0
fuselage B-system
, 0

areas 0
A 0
(0
total 0
lift 0

calculated 0
at 0
the 0
end 0
of 0
this 0
chapter 0
) 0
and 0
B 0
(0
total 0
lift 0
according 0
to 0
Schrenk 0
) 0
are 0
of 0
equal 0
size 0
This 0
approach 0
is 0
based 0
on 0
the 0
approximation 0
described 0
by 0
Schrenk 0
and 0
requires 0
adjustments 0
:
moving 0
the 0
apex 0
of 0
the 0
elliptical 0
distribution 0
from 0
the 0
fuselage B-system
centre 0
towards 0
the 0
wing B-system
root 0
increasing 0
lift 0
of 0
wetted 0
wing 0
sections 0
to 0
compensate 0
for 0
zero I-parameter
lift I-parameter
of 0
fuselage B-system
wing B-system

section 0
The 0
formula 0
for 0
wing B-parameter
lift I-parameter
distribution I-parameter
is 0
derived 0
from 0
Schrenk 0
and 0
is 0
altered 0
to 0
assume 0
zero B-parameter
lift I-parameter
at 0
the 0
wing B-system
section I-system
within 0
the 0
fuselage B-system
as 0
shown 0
below 0
. 0

The 0
formula 0
gives 0
the 0
value 0
of 0
the 0
lift B-parameter
for 0
span 0
unit 0
. 0

$\hat{\alpha}_i$ 0
i 0
 $\hat{\alpha}_i$ 0
identifies 0
the 0
individual 0
station 0
. 0

Figure 0
6 0
 $\hat{\alpha}_i$ 0
lift B-parameter
distribution I-parameter
with 0
zero B-parameter
lift I-parameter
at 0
fuselage B-system
wing B-system
section 0

(0
) 0
(0
f 0
. 0

6 0
. 0

4 0
. 0

1 0
. 0

1 0
) 0
Now 0
the 0
lift B-parameter
of 0
the 0
wing B-system
section 0
within 0
the 0
fuselage B-system
is 0
redistributed 0
across 0
the 0
wetted 0
wing B-system
area I-parameter
to 0
achieve 0
conservative 0
results 0
. 0

The 0
lift B-parameter
distribution I-parameter
calculated 0
above 0
is 0
adjusted 0
by 0
multiplication 0
of 0
a 0
correction 0
factor 0
derived 0
from 0
comparison 0
between 0
total B-parameter
lift I-parameter
of 0
the 0
whole 0
wing B-system
including 0

the 0
fuselage B-system
section 0
and 0
the 0
wetted 0
wing B-system
only 0
. 0

Figure 0
7 0
â(□ 0
Fuselage B-system
wing B-system
section 0
lift 0
redistributed 0
across 0
wetted 0
wing B-system
stations 0
or 0
(0
f 0
. 0

6 0
. 0

4 0
. 0

1 0
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2 0
) 0
The 0
lift B-parameter
distribution I-parameter
corresponding 0
to 0
the 0
formula 0
above 0
, 0

gives 0
a 0
value 0
of 0
lift B-parameter
at 0
wing B-module
tip I-module
which 0
is 0
higher 0
than 0
zero 0
and 0
therefore 0
does 0

not 0
fully 0
reproduce 0
the 0
actual 0
loading 0
(0
the 0
winglift B-parameter
is 0
normally 0
zero 0
at 0
the 0
tip B-module
) 0
. 0

Nevertheless 0
this 0
assumption 0
does 0
not 0
give 0
significant 0
changes 0
and 0
yields 0
conservative 0
results 0
. 0

The 0
local 0
angle B-parameter
of I-parameter
attack I-parameter
for 0
the 0
station 0
I 0
, 0

as 0
a 0
result 0
of 0
this 0
corrected 0
Schrenk 0
distribution 0
, 0

is 0
given 0
by 0
the 0
following 0
formula 0
:
(0
from 0
f 0
. 0

6 0
. 0

2 0
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3 0
and 0
f 0
. 0

6 0
. 0

1 0
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2 0
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4 0
) 0
(0
f 0
. 0

6 0
. 0

4 0
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1 0
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3 0
) 0
Note 0
:
FAA 0
AC 0
23 0
- 0
19A 0
, 0

paragraph 0
23 0
. 0

301 0
, 0

contains 0
other 0
acceptable 0
methods 0
. 0

Figure 0
9 0
â(0
Span 0

wise 0
lift B-parameter
distribution I-parameter
Wing B-parameter
drag I-parameter
distribution 0
Since 0
the 0
effect 0
of 0
the 0
drag B-parameter
is 0
negligible 0
, 0

when 0
compared 0
to 0
the 0
effect 0
of 0
the 0
lift B-parameter
, 0

the 0
span 0
wise 0
drag B-parameter
distribution 0
has 0
been 0
assumed 0
constant 0
throughout 0
wing B-parameter
span I-parameter
. 0

This 0
is 0
a 0
conservative 0
assumption 0
. 0

The 0
drag B-parameter
loading 0
per 0
metre 0
of 0
span 0
:
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f
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6 0
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4 0
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2 0
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1 0
) 0
Wing B-system
and 0
fuel B-parameter
mass I-parameter
distribution 0
The 0
local 0
masses B-parameter
are 0
calculated 0
for 0
each 0
wing B-system
station 0
to 0
account 0
for 0
the 0
mass B-parameter
of 0
the 0
structure 0
of 0
the 0
wing B-system
including 0
the 0
systems 0
and 0
control 0
surfaces 0
(0
control B-system
systems I-system
, 0

and 0
other 0
equipment 0
) 0
. 0

It 0
is 0
assumed 0
that 0
the 0
wing B-system
has 0
a 0
linear 0
distribution 0
proportional 0
to 0
the 0
chord 0
. 0

At 0
each 0
station 0
the 0
point 0
of 0
application 0
of 0
the 0
mass B-parameter
is 0
45 0
% 0
of 0
the 0
chord 0
. 0

Figure 0
10 0
 $\hat{\alpha}$ 0
Wing B-parameter
mass I-parameter
distribution 0
Figure 0
11 0
 $\hat{\alpha}$ 0
Fuel B-parameter
distribution I-parameter
A 0
constant 0
fuel B-parameter
distribution I-parameter
(0
at 0
a 0
point 0
of 0
application 0
of 0
20 0
% 0
of 0
the 0
chord 0
) 0
is 0
assumed 0
throughout 0
the 0
fuel B-component
tank I-component
span 0
. 0

Table 0
5 0
 $\hat{\alpha}$ 0
Mass B-parameter
distribution 0
with 0
full 0
fuel 0
Wing B-system

torsion I-parameter
distribution 0
At 0
each 0
station 0
, 0

the 0
wing B-parameter
lift I-parameter
is 0
assumed 0
to 0
be 0
acting 0
at 0
the 0
local 0
centre B-parameter
of I-parameter
pressure I-parameter
, 0

which 0
is 0
calculated 0
using 0
the 0
formula 0
: 0
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from 0
eq 0
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17 0
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Where 0
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ci 0

is 0
the 0
chord 0
at 0
each 0
station 0
, 0

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_ 0
w 0
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i 0
is 0
the 0
pitching B-parameter
moment I-parameter
around 0
the 0
aerodynamic B-parameter
centre I-parameter
of 0
the 0
wing B-system
section 0
(0
it 0
is 0
- 0
0 0
. 0

0436 0
across 0
the 0
wing B-system
from 0
chapter 0
6 0
. 0

1 0
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4 0
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, 0

CL 0
_ 0
i 0
is 0
the 0
local 0
lift B-parameter
coefficient I-parameter
and 0
comes 0
from 0
the 0
corrected 0
Schrenk 0
distribution 0
(0

) 0
in 0
6 0
. 0

1 0
. 0

5 0
. 0

Therefore 0
centre B-parameter
of I-parameter
pressure I-parameter
location 0
is 0
dependent 0
on 0
the 0
local 0
angle B-parameter
of I-parameter
attack I-parameter
. 0

Each 0
station 0
 $\hat{\alpha}$ 0
s 0
lift B-parameter
force I-parameter
acts 0
on 0
its 0
centre B-parameter
of I-parameter
pressure I-parameter
and 0
imposes 0
torsion B-parameter
around 0
the 0
wing B-system
elastic 0
axis 0
which 0
for 0
this 0
aeroplane B-asset
is 0
located 0
approximately 0
at 0
a 0
constant 0
chord 0
percentage 0
of 0
30 0
% 0
(0
see 0
design 0

data 0
- 0
the 0
main 0
spar 0
is 0
approximately 0
at 0
25 0
% 0
of 0
the 0
chord 0
) 0
throughout 0
the 0
entire 0
wing B-system
span 0
with 0
local 0
positions 0
as 0
local 0
shear B-parameter
centres I-parameter
at 0
the 0
stations 0
. 0

Note 0
: 0
the 0
location 0
of 0
the 0
elastic B-parameter
axis I-parameter
for 0
this 0
wing B-system
has 0
been 0
assumed 0
at 0
30 0
% 0
. 0

It 0
is 0
responsibility 0
of 0
the 0
applicant 0
to 0
determine 0
and 0
justify 0
the 0
location 0
of 0
the 0

elastic B-parameter
axis I-parameter
. 0

Incremental 0
torsion B-parameter
load I-parameter
on 0
structure 0
at 0
each 0
station 0
with 0
respect 0
to 0
local 0
wing B-system
shear B-parameter
centre I-parameter
including 0
contribution 0
of 0
fuel 0
and 0
wing B-system
structure 0
inertia I-parameter
forces I-parameter
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Torsion B-parameter
at 0
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to 0
shear B-parameter
centre I-parameter
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Distribution 0
of 0
internal B-parameter
loads I-parameter
The 0
components 0
of 0
the 0
internal B-parameter
loads I-parameter
on 0
the 0
wing B-system
structure 0
are 0
calculated 0
in 0
different 0
steps 0
for 0
each 0
station 0
. 0

The 0
flight B-parameter
load I-parameter
factor 0
n 0
is 0
assumed 0
to 0
act 0
in 0
parallel 0
to 0
the 0
direction 0
of 0
the 0
lift B-parameter
force I-parameter
instead 0
of 0
the 0
direction 0
of 0
the 0
normal B-parameter
force I-parameter
(0
As 0
required 0
by 0
5 0
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of 0
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The 0
difference 0
is 0
assumed 0
negligible 0
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The 0
incremental 0
shear B-parameter
load 0
parallel 0
to 0
lift B-parameter
force I-parameter
vector 0
at 0
station 0
i 0
is 0
taking 0
into 0
account 0
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inertia B-parameter
unloading I-parameter
of 0
the 0
wing B-system
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Incremental 0
shear B-parameter
load 0
parallel 0
to 0
drag B-parameter
force I-parameter
vector 0
at 0
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With 0
representing 0
the 0
width 0
of 0
the 0
station 0
i 0
. 0

The 0
summation 0
of 0
incremental 0
shear B-parameter
loads I-parameter
throughout 0
the 0
stations 0
to 0
obtain 0
the 0
absolute 0
shear B-parameter
loads I-parameter
at 0
station 0
i 0
is 0
presented 0
below 0
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Shear 0
load 0
parallel 0
to 0
lift 0
force 0
vector 0
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 normal 0
 and 0
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 directions 0
 are 0
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 following 0
 formulas 0
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 Forces B-parameter
 components 0
 on 0
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 tangential B-parameter
 force I-parameter
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 opposite 0
 to 0
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 x 0
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 and 0

is 0
therefore 0
positive 0
when 0
directed 0
towards 0
the 0
front 0
of 0
the 0
aeroplane B-asset
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Resulting B-parameter
force I-parameter
angle I-parameter
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Shear B-parameter
loads I-parameter
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resulting B-parameter
force I-parameter
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normal B-parameter
force I-parameter
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the 0
local 0
angle B-parameter
of I-parameter
attack I-parameter
for 0
the 0
station 0
i 0
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result 0
of 0
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Schrenk 0
distribution 0
given 0
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following 0
formula 0
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Summation 0
of 0
shear B-parameter
loads I-parameter
to 0
obtain 0
the 0
bending B-parameter
moments I-parameter
at 0
each 0
station 0
and 0
using 0
the 0
increased 0
lever 0
arm 0
(0
instead 0
of 0
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at 0
the 0
wing B-module
tip I-module
station 0
results 0
in 0
slightly 0
more 0
conservative 0
values 0
. 0

Bending B-parameter
moment I-parameter
along 0
normal 0
direction 0
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Bending B-parameter
moment I-parameter
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The 0

results 0

are 0

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the 0

graphs 0

and 0

tables 0

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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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28965280986336 0
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Length B-parameter
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Arm B-system
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Length B-parameter
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optimization 0
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length B-parameter
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Arm B-system
_ 0
2624 0
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Length B-parameter
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value 0
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70 0
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2471793093779 0
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component 0
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properties 0
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component 0
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Arm B-system
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property 0
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Length B-parameter
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Arm B-system
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component 0
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Length B-parameter
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optimization 0
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parameter 0
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name 0
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Arm B-system
_ 0
2625 0
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Length B-parameter
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value 0
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3703675241871 0
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properties 0
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Arm B-system
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2625 0
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property 0
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Length B-parameter
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arm B-system
_ 0
length B-parameter
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{ 0
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parameter 0
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name 0
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BODY B-system
_ 0
ROT B-parameter
_ I-parameter
ANGLE I-parameter
" 0
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value 0
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properties 0
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component 0
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name 0
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Fuselage B-system
_ 0
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" 0
component 0
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property 0
" 0
: 0
" 0
BOTTOM B-module
_ I-module
CONNECTOR I-module
_ 0
ROTATION B-parameter
" 0
} 0
, 0

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component 0
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name 0
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Orient B-module
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component 0
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property 0
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" 0
Z B-parameter
_ I-parameter
ANGLE I-parameter
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} 0
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{ 0
" 0
parameter 0
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name 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
_ 0
CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
" 0
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value 0
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180 0
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component 0
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properties 0
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Bend B-module
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component 0
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property 0
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ANGHORZCONN 0
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parameter 0
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name 0
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Bend B-module
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CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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properties 0
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Bend B-module
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ANGHORZCONN 0
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parameter 0
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name 0
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Bend B-module
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CLOCK B-parameter
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ANGLE I-parameter
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Bend B-module
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ANGHORZCONN 0
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parameter 0
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name 0
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Bend B-module
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CLOCK B-parameter
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ANGLE I-parameter
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component 0
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Bend B-module
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component 0
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parameter 0
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name 0
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Bend B-module
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CLOCK B-parameter
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ANGLE I-parameter
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value 0
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CONNECTOR I-module
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CONNECTOR I-module
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FixedRotationArm B-component
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ROT B-parameter
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ROT I-parameter
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FixedRotationArm B-component
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Length B-parameter
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FixedRotationArm B-component
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ROT B-parameter
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FixedRotationArm B-component
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Length B-parameter
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FixedRotationArm B-component
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length B-parameter
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ANGLE I-parameter
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Propeller B-system
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Propeller B-system
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NegPropType B-parameter

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Prop B-parameter
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Propeller B-system
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Prop B-parameter
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Propeller B-system
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Propeller B-system
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Prop B-parameter
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Propeller B-system
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Prop B-parameter
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Propeller B-system
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RotatedArm B-component
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ROT2 B-parameter
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component 0
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RotatedArm B-component
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END B-parameter
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RotatedArm B-component
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ROT2 B-parameter
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RotatedArm B-component
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Arm B-system
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Tube B-component
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Arm B-system
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BatteryController B-control
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BatteryController B-control
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BatteryController B-control
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Battery B-system
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Branch B-module
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component 0
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Cargo B-system
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Cargo B-system
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Cargo B-system
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instance 0
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CargoCase B-module
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CargoCase B-module
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choice 0
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CargoCase B-module
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Cross B-module
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Para 0
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Hub B-module
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component 0
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choice 0
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03940d 0
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para 0
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hub B-module
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Cross B-module
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FixedRotationArm B-component
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Tube B-component
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FixedRotationArm B-component
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Tube B-component
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03940D 0
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para 0
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tube B-component
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Flange B-module
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Flange B-module
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flange B-module
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Flange B-module
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component 0
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Flange B-module
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component 0
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0394 0
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para 0
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flange B-module
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component 0
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instance 0
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Fuselage B-system
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1 0
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" 0
component 0
_ 0
type 0
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: 0
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UAV B-module
_ I-module
Fuselage I-module
" 0
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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
capsule B-module
_ I-module
fuselage I-module
" 0
} 0
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{ 0
" 0
component 0
_ 0
instance 0
" 0
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MainHub B-module
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub B-module
_ 0
6 0
" 0
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component 0
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choice 0
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0394od 0
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para 0
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hub B-module
_ 0
6 0
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" 0
component 0
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instance 0
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Motor B-system
_ 0
1 0
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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t 0
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motor B-system
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AT4125KV540 0
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} 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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MN4014KV400 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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MN4014KV400 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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direct 0
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KDE4213XF 0
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360 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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direct 0
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KDE4213XF 0
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360 0
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component 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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choice 0
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kde 0
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direct 0
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KDE3520XF 0
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400 0
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instance 0
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Motor B-system
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component 0
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Motor B-system
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motor B-system
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MN4014KV400 0
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Motor B-system
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Motor B-system
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motor B-system
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MN4014KV400 0
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Motor B-system
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component 0
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Motor B-system
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component 0
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choice 0
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kde 0
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KDE4213XF 0
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360 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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choice 0
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kde 0
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KDE4213XF 0
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360 0
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Motor B-system
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Motor B-system
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kde 0
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direct 0
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KDE3520XF 0
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400 0
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component 0
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Motor B-system
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component 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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U7 0
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V2 0
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0KV490 0
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Motor B-system
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component 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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AntigravityMN5006KV450 0
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Motor B-system
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Motor B-system
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motor B-system
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Orient B-module
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Orient B-module
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Orient B-module
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Propeller B-system
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Propeller B-system
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apc 0
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propellers B-system
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20x10E 0
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Propeller B-system
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Propeller B-system
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propellers B-system
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16x8E 0
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Propeller B-system
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Propeller B-system
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propellers B-system
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Propeller B-system
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Propeller B-system
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Propeller B-system
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propellers B-system
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16x8E 0
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Propeller B-system
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Propeller B-system
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Propeller B-system
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Propeller B-system
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propellers B-system
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17x10WE 0
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Propeller B-system
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type 0
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Propeller B-system
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propellers B-system
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17x10WE 0
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component 0
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instance 0
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Propeller B-system
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component 0
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Propeller B-system
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component 0
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propellers B-system
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15x4W 0
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Propeller B-system
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Propeller B-system
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component 0
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propellers B-system
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16x12E 0
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component 0
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instance 0
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Propeller B-system
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component 0
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type 0
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Propeller B-system
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propellers B-system
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17x8 0
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component 0
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instance 0
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Propeller B-system
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component 0
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type 0
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Propeller B-system
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component 0
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choice 0
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apc 0
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propellers B-system
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16x12E 0
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component 0
_ 0
instance 0
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: 0
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RotatedArm B-component
_ 0
835 0
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube B-component
" 0
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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube B-component
" 0
} 0
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component 0
_ 0
instance 0
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RotatedArm B-component
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835 0
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component 0
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type 0
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Tube B-component
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component 0
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choice 0
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03940D 0
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para 0
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tube B-component
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube B-component
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
```

```

03940D 0
_ 0
para 0
_ 0
tube B-component
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube B-component
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube B-component
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0

```

```
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Autopilot B-parameter
" 0
} 0
, 0

{ 0
" 0
```

```
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Current B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
```



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" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
GPS B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
```

```

: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0

" 0
connections 0
" 0
: 0
[ 0
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2617 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

```

```

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0

```

```

3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component

```

```
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
```

```
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
9 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```



```
Arm B-system
_ 0
2619 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
10 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```

```

ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
2 0
" 0

```

```

, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component

```



```

" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0

```

```

: 0
" 0
Bend B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2625 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
```

```
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
9 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
```

```
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
```

```
14 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```


BatteryController B-control

_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0

MotorPower B-module

" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0

Motor B-system

_ 0
12 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

MotorPower B-module

" 0
}
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

BatteryController B-control

_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0

```
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Motor B-system
_ 0
13 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```

```
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
11 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
, 0

" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
```

```

1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0

```



```

" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

```

```

Bend B-module
_ I-module
5 I-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
6 0
" 0
, 0

" 0
from 0

```

```
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
```

```
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
```

```

ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0

```

```
2619 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
293 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
```



```

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
294 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0

```

```
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
```

```
280 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```

" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0

```

```

: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
1 0
" 0

```

```

, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0

```

```

" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0

```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0

```



```
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
293 0
_ 0
1 0
" 0
, 0

" 0
from 0
```

```

_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
294 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

```

```

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0

```

```
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
10 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
13 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
```

```

_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0

```

```
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```



```

" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0

```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
11 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
1 0
" 0

```

```
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
```

```

" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
14 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0

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Motor B-system

_ 0

7 0

" 0

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to 0

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conn 0

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Base B-component

_ I-component

Connector I-component

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} 0

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from 0

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ci 0

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Flange B-module

_ 0

847 0

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from 0

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conn 0

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TopConnector B-component

" 0

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to 0

_ 0

ci 0

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" 0

Motor B-system

_ 0

9 0

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" 0

to 0

_ 0

conn 0

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" 0
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" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
9 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
12 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0

```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0

```

```
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```



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: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
```

```
" 0
FloorConnector3 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
```

```
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
835 0
_ 0
2 0
" 0
, 0

" 0
to 0
```

```

_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0

```

```

, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2625 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0

```

```

: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
835 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

```



```

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2617 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component

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```
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```

" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
10 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component

```

```

_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
11 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
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" 0
to 0
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ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
11 0
" 0
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" 0
to 0
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conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0
" 0
} 0

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" 0
from 0
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ci 0
" 0
: 0
" 0
Motor B-system
_ 0
12 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
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to 0
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ci 0
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" 0
Propeller B-system
_ 0
12 0
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" 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
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{ 0
" 0
from 0
_ 0

```

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ci 0
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: 0
" 0
Motor B-system
_ 0
13 0
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" 0
from 0
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conn 0
" 0
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Prop B-component
_ I-component
Connector I-component
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ci 0
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Propeller B-system
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
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" 0
Motor B-system
_ 0

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14 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
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to 0
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ci 0
" 0
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" 0
Propeller B-system
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14 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
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" 0
Motor B-system
_ 0
2 0
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" 0
from 0

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_ 0
conn 0
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Prop B-component
_ I-component
Connector I-component
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ci 0
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Propeller B-system
_ 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0
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} 0
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" 0
from 0
_ 0
ci 0
" 0
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" 0
Motor B-system
_ 0
3 0
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" 0
from 0
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conn 0
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Prop B-component

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_ I-component
Connector I-component
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to 0
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ci 0
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" 0
Propeller B-system
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to 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0

```

```

to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
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" 0
to 0
_ 0
ci 0
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" 0

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Propeller B-system

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5 0

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to 0

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conn 0

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MOTOR B-component

_ I-component

CONNECTOR I-component

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CS 0

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IN 0

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ci 0

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Motor B-system

_ 0

6 0

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from 0

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conn 0

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Prop B-component

_ I-component

Connector I-component

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to 0

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ci 0

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Propeller B-system

_ 0

6 0

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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
```

```

_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
9 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
9 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
ORIENTCONN B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
835 0
_ 0
1 0
" 0

```



```
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
835 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
```

```
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
```

```

ci 0
" 0
: 0
" 0
Bend B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
7 0
" 0

```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2617 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```

" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0

```

```

: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0

```

```
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```

: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
1 0
" 0
, 0

" 0
to 0

```



```

_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0

```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
9 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
10 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
```

```

2620 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
1 0
" 0
, 0

```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```

" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0

```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2622 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0

```



```
847 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```

" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0

```

```

to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0

```

```
2624 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2625 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
9 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
14 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
```



```
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
```

```
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
12 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
```

```
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
13 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
```

```
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
```

```
11 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
```

```
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1663 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
```


Battery B-system

_ 0
1 0
" 0
, 0

" 0
to 0

_ 0
conn 0
" 0
: 0
" 0

PowerBus B-component

" 0
} 0
, 0

{ 0
" 0
from 0

_ 0
ci 0
" 0
: 0
" 0

Arm B-system

_ 0
2620 0
_ 0
1 0
" 0
, 0

" 0
from 0

_ 0
conn 0
" 0
: 0
" 0

BaseConnection B-component

" 0
, 0

" 0
to 0

_ 0
ci 0
" 0
: 0
" 0

Bend B-module

_ 0
1 0
" 0
, 0

" 0
to 0

_ 0
conn 0
" 0
: 0

```

" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0

```

```
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
```

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: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2624 0
_ 0
2 0
" 0

```

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, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
836 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0

```

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" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2623 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
```

```

ci 0
" 0
: 0
" 0
Bend B-module
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2620 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
8 0
" 0

```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```



```
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
```

```
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
293 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
```

```
from 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
294 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
```

```

2619 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2619 0
_ 0
4 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Branch B-module
_ 0
280 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
```

```

_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

```



```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2621 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

```

```

Arm B-system
_ 0
2618 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2618 0
_ 0
4 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
```

```

_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
293 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0

```

```
ci 0
" 0
: 0
" 0
FixedRotationArm B-component
_ 0
294 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
13 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
10 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0
```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0

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, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component

```



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" 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0

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```
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
```

```

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

```

```
Motor B-system
_ 0
11 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
```

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" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
14 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0

```

```
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
846 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
1 0
" 0
```

```
, 0
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
9 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
847 0
_ 0
2 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
12 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
9 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```



```

Sensor B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
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: 0
" 0
Fuselage B-system
_ 0
1 0
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" 0
to 0
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conn 0
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FloorConnector5 B-component
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" 0
from 0
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ci 0
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Sensor B-module
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4 0
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" 0
from 0
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conn 0
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" 0
SensorConnector B-component

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to 0
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ci 0
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Fuselage B-system
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to 0
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conn 0
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FloorConnector6 B-component
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from 0
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ci 0
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MainHub B-module
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" 0
from 0
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conn 0
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Top B-component
_ I-component
Connector I-component
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" 0
to 0
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ci 0
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" 0
Fuselage B-system
_ 0
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" 0
to 0
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conn 0
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" 0
BottomConnector B-component
" 0
} 0
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{ 0
" 0
from 0
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ci 0
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Sensor B-module
_ 0
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from 0
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conn 0
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SensorConnector B-component
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to 0
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ci 0
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: 0
" 0
Fuselage B-system
_ 0
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" 0
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conn 0
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FloorConnector4 B-component
" 0
} 0
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" 0
from 0
_ 0
ci 0
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: 0
" 0
Sensor B-module
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5 0
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conn 0
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" 0
SensorConnector B-component
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to 0
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ci 0
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" 0
Fuselage B-system
_ 0
1 0
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to 0
_ 0
conn 0
" 0
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" 0
FloorConnector7 B-component
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
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" 0
from 0
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conn 0
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" 0
SensorConnector B-component
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to 0
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ci 0
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" 0
Fuselage B-system
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conn 0
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FloorConnector8 B-component
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" 0
from 0
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ci 0
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Sensor B-module
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from 0
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conn 0
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" 0
SensorConnector B-component
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to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
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1 0
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" 0
to 0
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conn 0
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FloorConnector3 B-component
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} 0
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{ 0
" 0
from 0
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ci 0
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: 0
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Battery B-system
_ 0
1 0
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" 0
from 0
_ 0
conn 0
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Bottom B-system
_ I-system
Connector I-system
" 0
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" 0
to 0
_ 0
ci 0
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: 0
" 0
Fuselage B-system
_ 0
1 0
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" 0
to 0
_ 0
conn 0
" 0
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" 0
FloorConnector1 B-component
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} 0
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{ 0
" 0
from 0
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ci 0
" 0
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" 0
RotatedArm B-component
_ 0
835 0
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" 0
from 0
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conn 0
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BaseConnection B-component
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ci 0
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" 0
MainHub B-module
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1 0
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" 0
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conn 0
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Side B-component
_ I-component
Connector I-component
_ 0
5 0

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ci 0
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Arm B-system
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2622 0
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BaseConnection B-component
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ci 0
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MainHub B-module
_ 0
1 0
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conn 0
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Side B-component
_ I-component
Connector I-component
_ 0
6 0
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} 0
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{ 0
" 0
from 0
_ 0
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Arm B-system
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2625 0
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conn 0
" 0
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" 0
BaseConnection B-component
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MainHub B-module
_ 0
1 0
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conn 0
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Side B-component
_ I-component
Connector I-component
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4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
835 0
_ 0

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from 0
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conn 0
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" 0
BaseConnection B-component
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" 0
to 0
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" 0
MainHub B-module
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" 0
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conn 0
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" 0
Side B-component
_ I-component
Connector I-component
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1 0
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2617 0
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1 0
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" 0
from 0
_ 0
conn 0
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BaseConnection B-component
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to 0
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ci 0
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MainHub B-module
_ 0
1 0
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conn 0
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Side B-component
_ I-component
Connector I-component
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3 0
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ci 0
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Arm B-system
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2622 0
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1 0
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" 0
from 0
_ 0
conn 0
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BaseConnection B-component
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to 0
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ci 0
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MainHub B-module
_ 0
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to 0
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conn 0
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Side B-component
_ I-component
Connector I-component
_ 0
2 0
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
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to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

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" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
10 0
" 0
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" 0
from 0
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conn 0
" 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
10 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0

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{ 0
" 0
from 0
_ 0
ci 0
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" 0
Propeller B-system
_ 0
11 0
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" 0
from 0
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conn 0
" 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
" 0
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to 0
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ci 0
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" 0
Motor B-system
_ 0
11 0
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" 0
to 0
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conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
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ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
12 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0
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to 0
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ci 0
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: 0
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Motor B-system
_ 0
12 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
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{ 0
" 0
from 0
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ci 0
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: 0
" 0
Propeller B-system
_ 0
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13 0
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from 0
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conn 0
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MOTOR B-component
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CONNECTOR I-component
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IN 0
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Motor B-system
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13 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
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{ 0
" 0
from 0
_ 0
ci 0
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: 0
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Propeller B-system
_ 0
14 0
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" 0
from 0
```

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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
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to 0
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ci 0
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: 0
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Motor B-system
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14 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
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{ 0
" 0
from 0
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ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
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" 0
from 0
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conn 0
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MOTOR B-component
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_ I-component
CONNECTOR I-component
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CS 0
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to 0
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ci 0
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Motor B-system
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to 0
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conn 0
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Prop B-component
_ I-component
Connector I-component
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{ 0
" 0
from 0
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ci 0
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" 0
Propeller B-system
_ 0
3 0
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" 0
from 0
_ 0
conn 0
" 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0

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to 0
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ci 0
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Motor B-system
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conn 0
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Prop B-component
_ I-component
Connector I-component
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ci 0
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" 0
Propeller B-system
_ 0
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" 0
from 0
_ 0
conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
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" 0
to 0
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ci 0
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: 0
" 0
Motor B-system
_ 0
4 0
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" 0
to 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
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ci 0
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" 0
Propeller B-system
_ 0
5 0
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" 0
from 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
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ci 0
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Motor B-system
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to 0
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conn 0
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Prop B-component
_ I-component
Connector I-component
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from 0
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ci 0
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" 0
Propeller B-system
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
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ci 0
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Motor B-system
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conn 0
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Prop B-component
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Connector I-component
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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Motor B-system
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conn 0
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Prop B-component

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_ I-component
Connector I-component
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ci 0
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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Motor B-system
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conn 0
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Prop B-component
_ I-component
Connector I-component
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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Prop B-component
_ I-component
Connector I-component
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from 0
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ci 0
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MainHub B-module
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Orient B-component
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Connector I-component
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Orient B-module
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ORIENTCONN B-component
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Bend B-module
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from 0
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conn 0
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Side B-component
_ I-component
Connector I-component
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RotatedArm B-component
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835 0
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EndConnection B-component
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ci 0
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Bend B-module
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Side B-component
_ I-component
Connector I-component
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RotatedArm B-component
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EndConnection B-component
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ci 0
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Bend B-module
_ 0
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Side B-component
_ I-component
Connector I-component
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RotatedArm B-component
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836 0
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EndConnection B-component
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Bend B-module
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from 0
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conn 0
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Side B-component
_ I-component
Connector I-component
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RotatedArm B-component
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836 0
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EndConnection B-component
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Title 0
14 0
â(0
Aeronautics 0
and 0
Space 0
Chapter 0
I 0
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Federal 0
Aviation B-asset
Administration 0
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Department 0
of 0
Transportation 0
Subchapter 0
C 0
â(0
Aircraft B-asset
Part 0
23 0
Airworthiness 0
Standards 0
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Normal 0
Category 0
Airplanes B-asset
Â§ 0
23 0
. 0

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Cockpit B-module
voice I-module
recorders I-module
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Â§ 0
23 0
. 0

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Flight B-module
data I-module
recorders I-module
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Â§ 0
23 0

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Instructions 0
for 0
continued 0
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. 0

Subpart 0
A 0
General 0
Â§ 0
23 0
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and 0
definitions 0
. 0

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23 0
. 0

2005 0
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of 0
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category 0
airplanes B-asset
. 0

Â§ 0
23 0
. 0

2010 0
Accepted 0
means 0
of 0
compliance 0
. 0

Subpart 0
B 0
Flight 0
Performance 0
Â§ 0
23 0
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Weight B-parameter
and 0
center B-parameter
of I-parameter
gravity I-parameter
. 0

Â§ 0
23 0
. 0

2105 0
Performance 0
data 0
. 0

Â§ 0
23 0
. 0

2110 0
Stall B-parameter
speed I-parameter
. 0

Â§ 0
23 0
. 0

2115 0
Takeoff 0
performance 0
. 0

Â§ 0
23 0
. 0

2120 0
Climb 0
requirements 0
. 0

Â§ 0
23 0
. 0

2125 0
Climb 0
information 0
. 0

Â§ 0
23 0
. 0

2130 0
Landing 0
. 0

Flight 0
Characteristics 0
Â§ 0
23 0
. 0

2135 0
Controllability 0
. 0

Â§ 0
23 0
. 0

2140 0
Trim 0
. 0

Â§ 0
23 0
. 0

2145 0
Stability B-parameter
. 0

Â§ 0
23 0
. 0

2150 0
Stall B-parameter
characteristics I-parameter
, 0

stall B-parameter
warning I-parameter
, 0

and 0
spins B-parameter
. 0

Â§ 0
23 0
. 0

2155 0
Ground 0
and 0
water 0
handling 0
characteristics 0
. 0

Â§ 0
23 0
. 0

2160 0
Vibration B-parameter
, 0

buffeting B-parameter
, 0

and 0
high B-parameter
- I-parameter
speed I-parameter
characteristics 0
. 0

Â§ 0
23 0
. 0

2165 0

Performance 0
and 0
flight 0
characteristics 0
requirements 0
for 0
flight 0
in 0
icing 0
conditions 0
. 0

Subpart 0
C 0
Structures 0
Â§ 0
23 0
. 0

2200 0
Structural 0
design 0
envelope 0
. 0

Â§ 0
23 0
. 0

2205 0
Interaction 0
of 0
systems 0
and 0
structures 0
. 0

Structural B-parameter
Loads I-parameter
Â§ 0
23 0
. 0

2210 0
Structural B-parameter
design I-parameter
loads I-parameter
. 0

Â§ 0
23 0
. 0

2215 0
Flight B-parameter
load I-parameter
conditions 0
. 0

Â§ 0
23 0
. 0

2220 0

Ground 0
and 0
water 0
load 0
conditions 0
. 0

Â§ 0
23 0
. 0

2225 0
Component 0
loading 0
conditions 0
. 0

This 0
content 0
is 0
from 0
the 0
eCFR 0
and 0
is 0
authoritative 0
but 0
unofficial 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
Part 0
23 0
(0
June 0
27 0
, 0

2024 0
) 0
14 0

CFR 0
Part 0
23 0
(0
June 0
27 0
, 0

2024 0
) 0
(0
enhanced 0
display 0
) 0
page 0
1 0
of 0
31 0
Â§ 0
23 0
. 0

2230 0
Limit 0
and 0
ultimate B-parameter
loads I-parameter
. 0

Structural 0
Performance 0
Â§ 0
23 0
. 0

2235 0
Structural B-parameter
strength I-parameter
. 0

Â§ 0
23 0
. 0

2240 0
Structural B-parameter
durability I-parameter
. 0

Â§ 0
23 0
. 0

2245 0
Aeroelasticity B-parameter
. 0

Design 0
Â§ 0
23 0
. 0

2250 0
Design 0

and 0
construction 0
principles 0
. 0

Â§ 0
23 0
. 0

2255 0
Protection 0
of 0
structure 0
. 0

Â§ 0
23 0
. 0

2260 0
Materials 0
and 0
processes 0
. 0

Â§ 0
23 0
. 0

2265 0
Special 0
factors 0
of 0
safety 0
. 0

Structural 0
Occupant 0
Protection 0
Â§ 0
23 0
. 0

2270 0
Emergency 0
conditions 0
. 0

Subpart 0
D 0
Design 0
and 0
Construction 0
Â§ 0
23 0
. 0

2300 0
Flight B-system
control I-system
systems I-system
. 0

Â§ 0

23 0
. 0

2305 0
Landing B-system
gear I-system
systems I-system
. 0

Â§ 0
23 0
. 0

2310 0
Buoyancy 0
for 0
seaplanes 0
and 0
amphibians 0
. 0

Occupant 0
System 0
Design 0
Protection 0
Â§ 0
23 0
. 0

2315 0
Means 0
of 0
egress 0
and 0
emergency 0
exits 0
. 0

Â§ 0
23 0
. 0

2320 0
Occupant 0
physical 0
environment 0
. 0

Fire 0
and 0
High 0
Energy 0
Protection 0
Â§ 0
23 0
. 0

2325 0
Fire 0
protection 0
. 0

Â§ 0
23 0

. 0

2330 0
Fire 0
protection 0
in 0
designated 0
fire 0
zones 0
and 0
adjacent 0
areas 0
. 0

Â§ 0
23 0
. 0

2335 0
Lightning 0
protection 0
. 0

Subpart 0
E 0
Powerplant B-system
Â§ 0
23 0
. 0

2400 0
Powerplant B-system
installation 0
. 0

Â§ 0
23 0
. 0

2405 0
Automatic B-parameter
power I-parameter
or 0
thrust B-system
control I-system
systems I-system
. 0

Â§ 0
23 0
. 0

2410 0
Powerplant B-system
installation 0
hazard 0
assessment 0
. 0

Â§ 0
23 0
. 0

2415 0

Powerplant B-system
ice 0
protection 0
. 0

Â§ 0
23 0
. 0

2420 0
Reversing B-system
systems I-system
. 0

Â§ 0
23 0
. 0

2425 0
Powerplant B-system
operational 0
characteristics 0
. 0

Â§ 0
23 0
. 0

2430 0
Fuel B-system
systems I-system
. 0

Â§ 0
23 0
. 0

2435 0
Powerplant B-system
induction 0
and 0
exhaust B-system
systems I-system
. 0

Â§ 0
23 0
. 0

2440 0
Powerplant B-system
fire 0
protection 0
. 0

Subpart 0
F 0
Equipment 0
Â§ 0
23 0
. 0

2500 0
Airplane B-system

level I-system
systems I-system
requirements 0
. 0

Â§ 0
23 0
. 0

2505 0
Function 0
and 0
installation 0
. 0

Â§ 0
23 0
. 0

2510 0
Equipment 0
, 0

systems 0
, 0

and 0
installations 0
. 0

Â§ 0
23 0
. 0

2515 0
Electrical B-system
and I-system
electronic I-system
system I-system
lightning 0
protection 0
. 0

Â§ 0
23 0
. 0

2520 0
High 0
- 0
intensity 0
Radiated 0
Fields 0
(0
HIRF 0
) 0
protection 0
. 0

14 0
CFR 0
Part 0
23 0
(0

up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
Part 0
23 0
(0
June 0
27 0
, 0

2024 0
) 0
14 0
CFR 0
Part 0
23 0
(0
June 0
27 0
, 0

2024 0
) 0
(0
enhanced 0
display 0
) 0
page 0
2 0
of 0
31 0
Appendix 0
A 0
to 0
Part 0
23 0
Instructions 0
for 0
Continued 0
Airworthiness 0
Â§ 0
23 0
. 0

2525 0
System 0
power 0
generation 0

, 0

storage 0

, 0

and 0

distribution 0

. 0

Â§ 0

23 0

. 0

2530 0

External 0

and 0

cockpit 0

lighting 0

. 0

Â§ 0

23 0

. 0

2535 0

Safety B-system

equipment I-system

. 0

Â§ 0

23 0

. 0

2540 0

Flight 0

in 0

icing 0

conditions 0

. 0

Â§ 0

23 0

. 0

2545 0

Pressurized B-system

systems I-system

elements 0

. 0

Â§ 0

23 0

. 0

2550 0

Equipment 0

containing 0

high B-component

- I-component

energy I-component

rotors I-component

. 0

Subpart 0

G 0
Flightcrew 0
Interface 0
and 0
Other 0
Information 0
Â§ 0
23 0
. 0

2600 0
Flightcrew 0
interface 0
. 0

Â§ 0
23 0
. 0

2605 0
Installation 0
and 0
operation 0
. 0

Â§ 0
23 0
. 0

2610 0
Instrument 0
markings 0
, 0

control 0
markings 0
, 0

and 0
placards 0
. 0

Â§ 0
23 0
. 0

2615 0
Flight 0
, 0

navigation 0
, 0

and 0
powerplant B-module
instruments I-module
. 0

Â§ 0
23 0
. 0

2620 0
Airplane B-asset

flight 0
manual 0
. 0

PART 0
23 0
â(0
AIRWORTHINESS 0
STANDARDS 0
: 0
NORMAL 0
CATEGORY 0
AIRPLANES B-asset
Authority 0
: 0
49 0
U 0
. 0

S 0
. 0

C 0
. 0

106 0
(0
f 0
) 0
, 0

106 0
(0
g 0
) 0
, 0

40113 0
, 0

44701 0
- 0
44702 0
, 0

44704 0
, 0

Pub 0
. 0

L 0
. 0

113 0
- 0
53 0
, 0

127 0
Stat 0
. 0

584 0

(0
49 0
U 0
. 0

S 0
. 0

C 0
. 0

44704 0
) 0
note 0
. 0

Source 0
: 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

unless 0
otherwise 0
noted 0
. 0

Â§ 0
23 0
. 0

1457 0
Cockpit B-module

voice I-module
recorders I-module
. 0

(0
a 0
) 0
Each 0
cockpit B-system
voice I-system
recorder I-system
required 0

by 0
the 0
operating 0
rules 0
of 0
this 0
chapter 0
must 0
be 0
approved 0
and 0
must 0
be 0
installed 0

so 0
that 0
it 0
will 0
record 0
the 0
following 0
:

(0
1 0
) 0
Voice 0
communications 0
transmitted 0
from 0
or 0
received 0
in 0
the 0
airplane B-asset
by 0
radio B-module
. 0

(0
2 0
) 0
Voice 0
communications 0
of 0
flightcrew 0
members 0
on 0
the 0
flight B-module
deck I-module
. 0

(0
3 0
) 0
Voice 0
communications 0
of 0
flightcrew 0
members 0
on 0
the 0
flight B-module
deck I-module
, 0

using 0
the 0
airplane B-asset
' 0
s 0
interphone B-system
system I-system
. 0

(0
4 0
) 0
Voice 0
or 0
audio 0
signals 0
identifying 0
navigation 0
or 0
approach 0
aids 0
introduced 0
into 0
a 0
headset B-module
or 0
speaker B-module
. 0

(0
5 0
) 0
Voice 0
communications 0
of 0
flightcrew 0
members 0
using 0
the 0
passenger B-system
loudspeaker I-system
system I-system
, 0

if 0
there 0
is 0
such 0
a 0
system 0

and 0
if 0
the 0
fourth 0
channel 0
is 0
available 0
in 0
accordance 0
with 0
the 0
requirements 0
of 0
paragraph 0
(0
c 0
) 0
(0
4 0
) 0
(0
ii 0
) 0
of 0
this 0
section 0
. 0

(0
6 0
) 0
If 0
datalink B-module
communication I-module
equipment I-module
is 0
installed 0
, 0

all 0
datalink 0
communications 0
, 0

using 0
an 0
approved 0
data 0
message 0
set 0
. 0

Datalink 0
messages 0
must 0
be 0
recorded 0
as 0
the 0
output 0
signal 0
from 0
the 0
communications B-module

unit I-module
that 0
translates 0
the 0
signal 0
into 0
usable 0
data 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
Part 0
23 0
(0
June 0
27 0
, 0

2024 0
) 0
14 0
CFR 0
23 0
. 0

1457 0
(0
a 0
) 0
(0
6 0
) 0
(0
enhanced 0
display 0
) 0
page 0
3 0
of 0
31 0
(0

b 0
) 0
The 0
recording 0
requirements 0
of 0
paragraph 0
(0
a 0
) 0
(0
2 0
) 0
of 0
this 0
section 0
must 0
be 0
met 0
by 0
installing 0
a 0
cockpit B-module
i.e. 0
mounted 0
area B-module
microphone I-module
, 0

located 0
in 0
the 0
best 0
position 0
for 0
recording 0
voice 0
communications 0
originating 0
at 0
the 0
first 0
and 0
second 0
pilot 0
stations 0
and 0
voice 0
communications 0
of 0
other 0
crewmembers 0
on 0
the 0
flight B-module
deck I-module
when 0
directed 0
to 0
those 0
stations 0
. 0

The 0

microphone B-module
must 0
be 0
so 0
located 0
and 0
, 0

if 0
necessary 0
, 0

the 0
preamplifiers B-component
and 0
filters B-component
of 0
the 0
recorder 0
must 0
be 0
so 0
adjusted 0
or 0
supplemented 0
, 0

so 0
that 0
the 0
intelligibility 0
of 0
the 0
recorded 0
communications 0
is 0
as 0
high 0
as 0
practicable 0
when 0
recorded 0
under 0
flight B-module
cockpit I-module
noise 0
conditions 0
and 0
played 0
back 0
. 0

Repeated 0
aural 0
or 0
visual 0
playback 0
of 0
the 0
record 0
may 0
be 0
used 0
in 0

evaluating 0
intelligibility 0
. 0

(0
c 0
) 0
Each 0
cockpit B-system
voice I-system
recorder I-system

must 0
be 0
installed 0
so 0
that 0
the 0
part 0
of 0
the 0
communication 0
or 0

audio 0
signals 0
specified 0
in 0
paragraph 0

(0
a 0
) 0
of 0
this 0
section 0
obtained 0
from 0
each 0
of 0
the 0
following 0
sources 0
is 0
recorded 0
on 0
a 0
separate 0
channel 0

: 0
(0
1 0
) 0
For 0
the 0
first 0
channel 0
, 0

from 0
each 0
boom B-component
, 0

mask B-component
, 0

or 0
handheld B-component
microphone I-component
, 0

headset B-module
, 0

or 0
speaker B-module
used 0
at 0
the 0
first 0
pilot 0
station 0
. 0

(0
2 0
) 0
For 0
the 0
second 0
channel 0
from 0
each 0
boom B-component
, 0

mask B-component
, 0

or 0
handheld B-component
microphone I-component
, 0

headset B-module
, 0

or 0
speaker B-module
used 0
at 0
the 0
second 0
pilot 0
station 0
. 0

(0
3 0
) 0
For 0
the 0
third 0
channel 0
â(0
from 0
the 0
cockpit B-module
- I-module
mounted I-module

area I-module
microphone I-module
. 0

(0
4 0
) 0
For 0
the 0
fourth 0
channel 0
from 0
:
(0
i 0
) 0
Each 0
boom B-component
, 0

mask B-component
, 0

or 0
handheld B-component
microphone I-component
, 0

headset B-module
, 0

or 0
speaker B-module
used 0
at 0
the 0
station 0
for 0
the 0
third 0
and 0
fourth 0
crewmembers 0
. 0

(0
ii 0
) 0
If 0
the 0
stations 0
specified 0
in 0
paragraph 0
(0
c 0
) 0
(0
4 0
) 0
(0
i 0
) 0
of 0

this 0
section 0
are 0
not 0
required 0
or 0
if 0
the 0
signal 0
at 0
such 0
a 0
station 0
is 0
picked 0
up 0
by 0
another 0
channel 0
, 0

each 0
microphone B-module
on 0
the 0
flight B-module
deck I-module
that 0
is 0
used 0
with 0
the 0
passenger B-system
loudspeaker I-system
system I-system
, 0

if 0
its 0
signals 0
are 0
not 0
picked 0
up 0
by 0
another 0
channel 0
. 0

(0
5 0
) 0
And 0
that 0
as 0
far 0
as 0
is 0
practicable 0
all 0
sounds 0
received 0
by 0
the 0

microphone B-module
listed 0
in 0
paragraphs 0
(0
c 0
) 0
(0
1 0
) 0
, 0

(0
2 0
) 0
, 0

and 0
(0
4 0
) 0
of 0
this 0
section 0
must 0
be 0
recorded 0
without 0
interruption 0
irrespective 0
of 0
the 0
position 0
of 0
the 0
interphone B-component
- I-component
transmitter I-component
key I-component
switch I-component
. 0

The 0
design 0
shall 0
ensure 0
that 0
sidetone 0
for 0
the 0
flightcrew 0
is 0
produced 0
only 0
when 0
the 0
interphone B-component
, 0

public B-system
address I-system
system I-system
, 0

or 0
radio B-component
transmitters I-component
are 0
in 0
use 0
. 0

(0
d 0
) 0
Each 0
cockpit B-system
voice I-system
recorder I-system
must 0
be 0
installed 0

so 0
that 0
:
0
(0
1 0
) 0
(0
i 0
) 0
It 0
receives 0
its 0
electrical B-parameter
power I-parameter
from 0
the 0
bus B-component
that 0
provides 0
the 0
maximum 0
reliability 0
for 0
operation 0
of 0
the 0
cockpit B-system
voice I-system
recorder I-system
without 0
jeopardizing 0
service 0
to 0
essential 0
or 0
emergency 0
loads B-parameter
. 0

(0
ii 0
) 0
It 0
remains 0
powered 0
for 0

as 0
long 0
as 0
possible 0
without 0
jeopardizing 0
emergency 0
operation 0
of 0
the 0
airplane B-asset
. 0

(0
2 0
) 0
There 0
is 0
an 0
automatic 0
means 0
to 0
simultaneously 0
stop 0
the 0
recorder B-module
and 0
prevent 0
each 0
erasure 0
feature 0
from 0
functioning 0
, 0

within 0
10 0
minutes 0
after 0
crash 0
impact 0
. 0

(0
3 0
) 0
There 0
is 0
an 0
aural 0
or 0
visual 0
means 0
for 0
preflight 0
checking 0
of 0
the 0
recorder 0
for 0
proper 0
operation 0
. 0

(0
4 0
) 0
Any 0
single 0
electrical 0
failure 0
external 0
to 0
the 0
recorder 0
does 0
not 0
disable 0
both 0
the 0
cockpit B-system
voice I-system
recorder I-system
and 0
the 0
flight B-module
data I-module
recorder I-module
. 0

(0
5 0
) 0
It 0
has 0
an 0
independent B-module
power I-module
source I-module
â(□ 0
(0
i 0
) 0
That 0
provides 0
10 0
Â± 0
1 0
minutes 0
of 0
electrical B-parameter
power I-parameter
to 0
operate 0
both 0
the 0
cockpit B-system
voice I-system
recorder I-system
and 0
cockpit B-module
- I-module
mounted I-module
area I-module
microphone I-module
; 0
14 0
CFR 0

Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

1457 0
(0
b 0
) 0
14 0
CFR 0
23 0
. 0

1457 0
(0
d 0
) 0
(0
5 0
) 0
(0
i 0
) 0
(0
enhanced 0
display 0
) 0
page 0
4 0
of 0
31 0
Â§ 0
23 0
. 0

1459 0
Flight B-module
data I-module
recorders I-module
. 0

(0
ii 0

) 0
That 0
is 0
located 0
as 0
close 0
as 0
practicable 0
to 0
the 0
cockpit B-system
voice I-system
recorder I-system
; 0
and 0
(0
iii 0
) 0
To 0
which 0
the 0
cockpit B-system
voice I-system
recorder I-system
and 0
cockpit B-module
- I-module
mounted I-module
area I-module
microphone I-module
are 0
switched 0
automatically 0
in 0
the 0
event 0
that 0
all 0
other 0
power 0
to 0
the 0
cockpit B-system
voice I-system
recorder I-system
is 0
interrupted 0
either 0
by 0
normal 0
shutdown 0
or 0
by 0
any 0
other 0
loss 0
of 0
power 0
to 0
the 0
electrical B-module
power I-module
bus I-module
. 0

(0
6 0
) 0
It 0
is 0
in 0
a 0
separate 0
container 0
from 0
the 0
flight B-module
data I-module
recorder I-module
when 0
both 0
are 0
required 0
. 0

If 0
used 0
to 0
comply 0
with 0
only 0
the 0
cockpit B-system
voice I-system
recorder I-system
requirements 0
, 0

a 0
combination 0
unit 0
may 0
be 0
installed 0
. 0

(0
e 0
) 0
The 0
recorder B-module
container I-module
must 0
be 0
located 0
and 0
mounted 0
to 0
minimize 0
the 0
probability 0
of 0
rupture 0
of 0
the 0
container 0
as 0
a 0

result 0
of 0
crash 0
impact 0
and 0
consequent 0
heat 0
damage 0
to 0
the 0
recorder B-module
from 0
fire 0
. 0

(0
1 0
) 0
Except 0
as 0
provided 0
in 0
paragraph 0
(0
e 0
) 0
(0
2 0
) 0
of 0
this 0
section 0
, 0

the 0
recorder B-module
container I-module
must 0
be 0
located 0
as 0
far 0
aft 0
as 0
practicable 0
, 0

but 0
need 0
not 0
be 0
outside 0
of 0
the 0
pressurized B-module
compartment I-module
, 0

and 0
may 0
not 0
be 0
located 0
where 0

aft 0
- 0
mounted 0
engines B-system
may 0
crush 0
the 0
container 0
during 0
impact 0
. 0

(0
2 0
) 0
If 0
two 0
separate 0
combination B-module
digital I-module
flight I-module
data I-module
recorder I-module
and 0
cockpit B-system
voice I-system
recorder I-system
units 0
are 0
installed 0
instead 0
of 0
one 0
cockpit B-system
voice I-system
recorder I-system
and 0
one 0
digital B-module
flight I-module
data I-module
recorder I-module
, 0

the 0
combination 0
unit 0
that 0
is 0
installed 0
to 0
comply 0
with 0
the 0
cockpit B-system
voice I-system
recorder I-system
requirements 0
may 0
be 0
located 0
near 0
the 0
cockpit B-module

. 0

(0
f 0
) 0
If 0
the 0
cockpit B-system
voice I-system
recorder I-system
has 0
a 0
bulk B-module
erasure I-module
device I-module
, 0

the 0
installation 0
must 0
be 0
designed 0
to 0
minimize 0
the 0
probability 0
of 0
inadvertent 0
operation 0
and 0
actuation 0
of 0
the 0
device 0
during 0
crash 0
impact 0
. 0

(0
g 0
) 0
Each 0
recorder B-module
container I-module
must 0
 $\hat{a}(\square$ 0
(0
1 0
) 0
Be 0
either 0
bright 0
orange 0
or 0
bright 0
yellow 0
; 0
(0
2 0
) 0
Have 0
reflective B-component
tape I-component

affixed 0
to 0
its 0
external 0
surface 0
to 0
facilitate 0
its 0
location 0
under 0
water 0
; 0
and 0
(0
3 0
) 0
Have 0
an 0
underwater B-component
locating I-component
device I-component
, 0

when 0
required 0
by 0
the 0
operating 0
rules 0
of 0
this 0
chapter 0
, 0

on 0
or 0
adjacent 0
to 0
the 0
container 0
, 0

which 0
is 0
secured 0
in 0
such 0
manner 0
that 0
they 0
are 0
not 0
likely 0
to 0
be 0
separated 0
during 0
crash 0
impact 0
. 0

(0
a 0
) 0

Each 0
flight B-module
recorder I-module
required 0
by 0
the 0
operating 0
rules 0
of 0
this 0
chapter 0
must 0
be 0
installed 0
so 0
that 0
â(0
(0
1 0
) 0
It 0
is 0
supplied 0
with 0
airspeed B-parameter
, 0

altitude B-parameter
, 0

and 0
directional 0
data 0
obtained 0
from 0
sources 0
that 0
meet 0
the 0
aircraft B-asset
level 0
system 0
requirements 0
and 0
the 0
functionality 0
specified 0
in 0
Â§ 0
23 0
. 0

2500 0
;
(0
2 0
) 0
The 0
vertical B-component
acceleration I-component
sensor I-component
is 0
rigidly 0
attached 0

, 0

and 0
located 0
longitudinally 0
either 0
within 0
the 0
approved 0
center B-parameter
of I-parameter
gravity I-parameter
limits 0
of 0
the 0
airplane B-asset
, 0

or 0
at 0
a 0
distance 0
forward 0
or 0
aft 0
of 0
these 0
limits 0
that 0
does 0
not 0
exceed 0
25 0
percent 0
of 0
the 0
airplane B-parameter
' I-parameter
s I-parameter
mean I-parameter
aerodynamic I-parameter
chord I-parameter
; 0
(0
3 0
) 0
(0
i 0
) 0
It 0
receives 0
its 0
electrical B-parameter
power I-parameter
from 0
the 0
bus 0
that 0
provides 0
the 0
maximum 0
reliability 0
for 0
operation 0

of 0
the 0
flight B-module
data I-module
recorder I-module
without 0
jeopardizing 0
service 0
to 0
essential 0
or 0
emergency B-parameter
loads I-parameter
; 0
(0
ii 0
) 0
It 0
remains 0
powered 0
for 0
as 0
long 0
as 0
possible 0
without 0
jeopardizing 0
emergency 0
operation 0
of 0
the 0
airplane B-asset
; 0
(0
4 0
) 0
There 0
is 0
an 0
aural 0
or 0
visual 0
means 0
for 0
preflight 0
checking 0
of 0
the 0
recorder 0
for 0
proper 0
recording 0
of 0
data 0
in 0
the 0
storage 0
medium 0
; 0
14 0
CFR 0
Part 0
23 0
(0

up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

1457 0
(0
d 0
) 0
(0
5 0
) 0
(0
ii 0
) 0
14 0
CFR 0
23 0
. 0

1459 0
(0
a 0
) 0
(0
4 0
) 0
(0
enhanced 0
display 0
) 0
page 0
5 0
of 0
31 0
Â§ 0
23 0
. 0

1529 0
Instructions 0
for 0
continued 0
airworthiness 0
. 0

The 0

applicant 0
must 0
prepare 0
Instructions 0
for 0
Continued 0
Airworthiness 0
, 0

in 0
accordance 0
with 0
appendix 0
A 0
of 0
this 0
part 0
, 0

that 0
are 0
acceptable 0
to 0
the 0
Administrator 0
. 0

The 0
instructions 0
may 0
be 0
incomplete 0
at 0
type 0
certification 0
if 0
a 0
program 0
exists 0
to 0
ensure 0
their 0
completion 0
prior 0
to 0
delivery 0
of 0
the 0
first 0
airplane B-asset
or 0
issuance 0
of 0
a 0
standard 0
certificate 0
of 0
airworthiness 0
, 0

whichever 0
occurs 0
later 0
. 0

Subpart 0

A 0

â(0

General 0

Â§ 0

23 0

. 0

2000 0

Applicability 0

and 0

definitions 0

. 0

(0

5 0

) 0

Except 0

for 0

recorders B-module

powered 0

solely 0

by 0

the 0

engine 0

- 0

driven 0

electrical B-system

generator I-system

system I-system

, 0

there 0

is 0

an 0

automatic 0

means 0

to 0

simultaneously 0

stop 0

a 0

recorder B-module

that 0

has 0

a 0

data 0

erasure 0

feature 0

and 0

prevent 0

each 0

erasure 0

feature 0

from 0

functioning 0

, 0

within 0

10 0

minutes 0

after 0

crash 0

impact 0

; 0
(0
6 0
) 0
Any 0
single 0
electrical 0
failure 0
external 0
to 0
the 0
recorder B-module
does 0
not 0
disable 0
both 0
the 0
cockpit B-system
voice I-system
recorder I-system
and 0
the 0
flight B-module
data I-module
recorder I-module
; 0
and 0
(0
7 0
) 0
It 0
is 0
in 0
a 0
separate B-component
container I-component
from 0
the 0
cockpit B-system
voice I-system
recorder I-system
when 0
both 0
are 0
required 0
. 0

If 0
used 0
to 0
comply 0
with 0
only 0
the 0
flight B-module
data I-module
recorder I-module
requirements 0
, 0

a 0
combination 0
unit 0
may 0

be 0
installed 0
. 0

If 0
a 0
combination 0
unit 0
is 0
installed 0
as 0
a 0
cockpit B-system
voice I-system
recorder I-system
to 0
comply 0
with 0
Â§ 0
23 0
. 0

1457 0
(0
e 0
) 0
(0
2 0
) 0
, 0

a 0
combination B-component
unit I-component
must 0
be 0
used 0
to 0
comply 0
with 0
this 0
flight B-module
data I-module
recorder I-module
requirement 0
. 0

(0
b 0
) 0
Each 0
non 0
- 0
ejectable 0
record B-component
container I-component
must 0
be 0
located 0
and 0
mounted 0
so 0
as 0
to 0

minimize 0
the 0
probability 0
of 0
container B-component
rupture 0
resulting 0
from 0
crash 0
impact 0
and 0
subsequent 0
damage 0
to 0
the 0
record 0
from 0
fire 0
. 0

In 0
meeting 0
this 0
requirement 0
, 0

the 0
record B-component
container I-component
must 0
be 0
located 0
as 0
far 0
aft 0
as 0
practicable 0
, 0

but 0
need 0
not 0
be 0
aft 0
of 0
the 0
pressurized 0
compartment 0
, 0

and 0
may 0
not 0
be 0
where 0
aft B-system
- I-system
mounted I-system
engines I-system
may 0
crush 0
the 0
container 0
upon 0

impact 0
. 0

(0
c 0
) 0
A 0
correlation 0
must 0
be 0
established 0
between 0
the 0
flight B-module
recorder I-module
readings 0
of 0
airspeed B-parameter
, 0

altitude B-parameter
, 0

and 0
heading B-parameter
and 0
the 0
corresponding B-parameter
readings I-parameter
(0
taking 0
into 0
account 0
correction 0
factors 0
) 0
of 0
the 0
first 0
pilot 0
' 0
s 0
instruments 0
. 0

The 0
correlation 0
must 0
cover 0
the 0
airspeed B-parameter
range 0
over 0
which 0
the 0
airplane B-asset
is 0
to 0
be 0
operated 0
, 0

the 0
range 0

of 0
altitude B-parameter
to 0
which 0
the 0
airplane B-asset
is 0
limited 0
, 0

and 0
360 0
degrees 0
of 0
heading 0
. 0

Correlation 0
may 0
be 0
established 0
on 0
the 0
ground 0
as 0
appropriate 0
. 0

(0
d 0
) 0
Each 0
recorder B-module
container I-module
must 0

$\hat{\alpha}$ 0
(0
1 0
) 0
Be 0
either 0
bright 0
orange 0
or 0
bright 0
yellow 0

; 0
(0
2 0
) 0
Have 0
reflective B-component
tape I-component
affixed 0
to 0
its 0
external 0
surface 0
to 0
facilitate 0
its 0
location 0
under 0
water 0

; 0
and 0
(0
3 0
) 0
Have 0
an 0
underwater 0
locating 0
device 0
, 0

when 0
required 0
by 0
the 0
operating 0
rules 0
of 0
this 0
chapter 0
, 0

on 0
or 0
adjacent 0
to 0
the 0
container B-component
, 0

which 0
is 0
secured 0
in 0
such 0
a 0
manner 0
that 0
they 0
are 0
not 0
likely 0
to 0
be 0
separated 0
during 0
crash 0
impact 0
. 0

(0
e 0
) 0
Any 0
novel 0
or 0
unique 0
design 0
or 0
operational 0
characteristics 0
of 0
the 0

aircraft B-asset
shall 0
be 0
evaluated 0
to 0
determine 0
if 0
any 0
dedicated 0
parameters 0
must 0
be 0
recorded 0
on 0
flight B-module
recorders I-module
in 0
addition 0
to 0
or 0
in 0
place 0
of 0
existing 0
requirements 0
. 0

(0
a 0
) 0
This 0
part 0
prescribes 0
airworthiness 0
standards 0
for 0
the 0
issuance 0
of 0
type 0
certificates 0
, 0

and 0
changes 0
to 0
those 0
certificates 0
, 0

for 0
airplanes 0
in 0
the 0
normal 0
category 0
. 0

(0
b 0
) 0
For 0
the 0
purposes 0

of 0
this 0
part 0
, 0

the 0
following 0
definition 0
applies 0

: 0
14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0

as 0
of 0
6 0
/ 0

27 0
/ 0
2024 0
) 0

Airworthiness 0
Standards 0
:

0
Normal 0
Category 0

Airplanes B-asset
14 0
CFR 0
23 0
. 0

1459 0
(0
a 0
) 0
(0
5 0
) 0
14 0
CFR 0
23 0
. 0

2000 0
(0
b 0
) 0
(0
enhanced 0
display 0

) 0
page 0
6 0
of 0
31 0
Â§ 0
23 0
. 0

2005 0
Certification 0
of 0
normal 0
category 0
airplanes B-asset
. 0

Â§ 0
23 0
. 0

2010 0
Accepted 0
means 0
of 0
compliance 0
. 0

Subpart 0
B 0
â€” 0
Flight 0
PERFORMANCE 0
Â§ 0
23 0
. 0

2100 0
Weight B-parameter
and 0
center B-parameter
of I-parameter
gravity I-parameter
. 0

Continued 0
safe 0
flight 0
and 0
landing 0
means 0
an 0
airplane B-asset
is 0
capable 0
of 0
continued 0
controlled 0
flight 0
and 0
landing 0
, 0

possibly 0
using 0
emergency 0
procedures 0
, 0

without 0
requiring 0
exceptional 0

pilot 0
skill 0
or 0
strength 0
. 0

Upon 0
landing 0
, 0

some 0
airplane B-asset
damage 0
may 0
occur 0
as 0
a 0
result 0
of 0
a 0
failure 0
condition 0
. 0

(0
a 0
) 0
Certification 0
in 0
the 0
normal 0
category 0
applies 0
to 0
airplanes B-asset
with 0
a 0
passenger 0
- 0
seating 0
configuration 0
of 0
19 0
or 0
less 0
and 0
a 0
maximum 0
certificated 0
takeoff B-parameter
weight I-parameter
of 0
19 0
, 0

000 0
pounds B-measurement
or 0
less 0
. 0

(0
b 0
) 0

Airplane 0
certification 0
levels 0
are 0
: 0
(0
1 0
) 0
Level 0
1 0
â(0
for 0
airplanes B-asset
with 0
a 0
maximum B-parameter
seating I-parameter
configuration I-parameter
of 0
0 0
to 0
1 0
passengers 0
. 0

(0
2 0
) 0
Level 0
2 0
â(0
for 0
airplanes B-asset
with 0
a 0
maximum B-parameter
seating I-parameter
configuration I-parameter
of 0
2 0
to 0
6 0
passengers 0
. 0

(0
3 0
) 0
Level 0
3 0
â(0
for 0
airplanes B-asset
with 0
a 0
maximum B-parameter
seating I-parameter
configuration I-parameter
of 0
7 0
to 0
9 0
passengers 0
. 0

(0
4 0
) 0
Level 0
4 0
â(0
for 0
airplanes B-asset
with 0
a 0
maximum B-parameter
seating I-parameter
configuration I-parameter
of 0
10 0
to 0
19 0
passengers 0
. 0

(0
c 0
) 0
Airplane B-asset
performance 0
levels 0
are 0
:
(0
1 0
) 0
Low 0
speed B-parameter
â(0
for 0
airplanes B-asset
with 0
a 0
VNO 0
and 0
VMO 0
â) 0
250 0
Knots B-measurement
Calibrated B-parameter
Airspeed I-parameter
(0
KCAS 0
) 0
and 0
a 0
MMO 0
â) 0
0 0
. 0

6 0
. 0

(0
2 0
) 0
High 0

speed B-parameter
â(0
for 0
airplanes B-asset
with 0
a 0
VNO 0
or 0
VMO 0
> 0
250 0
KCAS 0
or 0
a 0
MMO 0
> 0
0 0
. 0

6 0
. 0

(0
d 0
) 0
Airplanes B-asset
not 0
certified 0
for 0
aerobatics 0
may 0
be 0
used 0
to 0
perform 0
any 0
maneuver 0
incident 0
to 0
normal 0
flying 0
, 0

including 0
â(0
(0
1 0
) 0
Stalls 0
(0
except 0
whip 0
stalls 0
) 0
;
and 0
(0
2 0
) 0
Lazy 0
eights 0
, 0

chandelles 0

, 0

and 0
steep 0
turns 0
, 0

in 0
which 0
the 0
angle 0
of 0
bank 0
is 0
not 0
more 0
than 0
60 0
degrees B-measurement
. 0

(0
e 0
) 0
Airplanes B-asset
certified 0
for 0
aerobatics 0
may 0
be 0
used 0
to 0
perform 0
maneuvers 0
without 0
limitations 0
, 0

other 0
than 0
those 0
limitations 0
established 0
under 0
subpart 0
G 0
of 0
this 0
part 0
. 0

(0
a 0
) 0
An 0
applicant 0
must 0
comply 0
with 0
this 0
part 0
using 0
a 0
means 0

of 0
compliance 0
, 0

which 0
may 0
include 0
consensus 0
standards 0
, 0

accepted 0
by 0
the 0
Administrator 0
. 0

(0
b 0
) 0
An 0
applicant 0
requesting 0
acceptance 0
of 0
a 0
means 0
of 0
compliance 0
must 0
provide 0
the 0
means 0
of 0
compliance 0
to 0
the 0
FAA 0
in 0
a 0
form 0
and 0
manner 0
acceptable 0
to 0
the 0
Administrator 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
determine 0
limits 0
for 0
weights B-parameter
and 0
centers B-parameter
of I-parameter
gravity I-parameter
that 0

provide 0
for 0
the 0
safe 0
operation 0
of 0
the 0
airplane 0
. 0

(0
b 0
) 0
The 0
applicant 0
must 0
comply 0
with 0
each 0
requirement 0
of 0
this 0
subpart 0
at 0
critical 0
combinations 0
of 0
weight B-parameter
and 0
center B-parameter
of I-parameter
gravity I-parameter
within 0
the 0
airplane B-asset
' 0
s 0
range 0
of 0
loading 0
conditions 0
using 0
tolerances 0
acceptable 0
to 0
the 0
Administrator 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0

) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2000 0
â(0
Continued 0
safe 0
flight 0
and 0
landing 0
â(0
14 0
CFR 0
23 0
. 0

2100 0
(0
b 0
) 0
(0
enhanced 0
display 0
) 0
page 0
7 0
of 0
31 0
Â§ 0
23 0
. 0

2105 0
Performance 0
data 0
. 0

Â§ 0
23 0
. 0

2110 0
Stall B-parameter
speed I-parameter
. 0

The 0
applicant 0
must 0
determine 0
the 0
airplane B-asset
stall B-parameter
speed I-parameter
or 0

the 0
minimum 0
steady B-parameter
flight I-parameter
speed I-parameter
for 0
each 0
flight 0
configuration 0
used 0
in 0
normal 0
operations 0
, 0

including 0
takeoff 0
, 0

climb 0
, 0

cruise 0
, 0

descent 0
, 0

approach 0
, 0

and 0
landing 0
. 0

The 0
stall B-parameter
speed I-parameter
or 0
minimum 0
steady B-parameter
flight I-parameter
speed I-parameter
determination 0
must 0
account 0
for 0
the 0
most 0
adverse 0
conditions 0
for 0
each 0
flight 0
configuration 0
with 0
power 0
set 0
at 0
â€” 0
Â§ 0
23 0
. 0

2115 0
Takeoff 0
performance 0
. 0

(0
c 0
) 0
The 0
condition 0
of 0
the 0
airplane B-asset
at 0
the 0
time 0
of 0
determining 0
its 0
empty B-parameter
weight I-parameter
and 0
center B-parameter
of I-parameter
gravity I-parameter
must 0
be 0
well 0
defined 0
and 0
easily 0
repeatable 0
. 0

(0
a 0
) 0
Unless 0
otherwise 0
prescribed 0
, 0

an 0
airplane B-asset
must 0
meet 0
the 0
performance 0
requirements 0
of 0
this 0
subpart 0
in 0
â(0
(0
1 0
) 0
Still 0
air 0
and 0
standard 0
atmospheric 0
conditions 0
at 0

sea 0
level 0
for 0
all 0
airplanes B-asset
; 0
and 0
(0
2 0
) 0
Ambient 0
atmospheric 0
conditions 0
within 0
the 0
operating 0
envelope 0
for 0
levels 0
1 0
and 0
2 0
high 0
- 0
speed 0
and 0
levels 0
3 0
and 0
4 0
airplanes B-asset
. 0

(0
b 0
) 0
Unless 0
otherwise 0
prescribed 0
, 0

the 0
applicant 0
must 0
develop 0
the 0
performance 0
data 0
required 0
by 0
this 0
subpart 0
for 0
the 0
following 0
conditions 0
:
(0
1 0
) 0
Airport B-asset
altitudes B-parameter
from 0
sea 0

level 0
to 0
10 0
, 0

000 0
feet B-measurement
(0
3 0
, 0

048 0
meters B-measurement
) 0
; 0
and 0
(0
2 0
) 0
Temperatures B-parameter
above 0
and 0
below 0
standard 0
day 0
temperature B-parameter
that 0
are 0
within 0
the 0
range 0
of 0
operating 0
limitations 0
, 0

if 0
those 0
temperatures B-parameter
could 0
have 0
a 0
negative 0
effect 0
on 0
performance 0
. 0

(0
c 0
) 0
The 0
procedures 0
used 0
for 0
determining 0
takeoff 0
and 0
landing B-parameter
distances I-parameter
must 0
be 0
executable 0
consistently 0

by 0
pilots 0
of 0
average 0
skill 0
in 0
atmospheric 0
conditions 0
expected 0
to 0
be 0
encountered 0
in 0
service 0
. 0

(0
d 0
) 0
Performance 0
data 0
determined 0
in 0
accordance 0
with 0
paragraph 0
(0
b 0
) 0
of 0
this 0
section 0
must 0
account 0
for 0
losses 0
due 0
to 0
atmospheric 0
conditions 0
, 0

cooling 0
needs 0
, 0

and 0
other 0
demands 0
on 0
power 0
sources 0
. 0

(0
a 0
) 0
Idle 0
or 0
zero 0
thrust 0
for 0
propulsion B-system
systems I-system

that 0
are 0
used 0
primarily 0
for 0
thrust 0
; 0
and 0
(0
b 0
) 0
A 0
nominal 0
thrust 0
for 0
propulsion B-system
systems I-system
that 0
are 0
used 0
for 0
thrust B-parameter
, 0

flight B-system
control I-system
, 0

and 0
/ 0
or 0
high B-system
- I-system
lift I-system
systems I-system
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
determine 0
airplane 0
takeoff 0
performance 0
accounting 0
for 0
â(0
(0
1 0
) 0
Stall B-parameter
speed I-parameter
safety B-parameter
margins I-parameter
; 0
(0
2 0
) 0
Minimum B-parameter
control I-parameter
speeds I-parameter


```
; 0
and 0
( 0
3 0
) 0
Climb B-parameter
gradients I-parameter
. 0
```

```
( 0
b 0
) 0
For 0
single B-parameter
engine I-parameter
airplanes B-asset
and 0
levels 0
1 0
, 0
```

```
2 0
, 0
```

```
and 0
3 0
low 0
- 0
speed 0
multiengine 0
airplanes B-asset
, 0
```

```
takeoff 0
performance 0
includes 0
the 0
determination 0
of 0
ground B-parameter
roll I-parameter
and 0
initial B-parameter
climb I-parameter
distance I-parameter
to 0
50 0
feet B-measurement
( 0
15 0
meters B-measurement
) 0
above 0
the 0
takeoff 0
surface 0
. 0
```

```
( 0
c 0
) 0
For 0
levels 0
1 0
```

, 0

2 0

, 0

and 0

3 0

high 0

- 0

speed 0

multiengine 0

airplanes B-asset

, 0

and 0

level 0

4 0

multiengine 0

airplanes B-asset

, 0

takeoff 0

performance 0

includes 0

a 0

determination 0

of 0

the 0

following 0

distances 0

after 0

a 0

sudden 0

critical 0

loss 0

of 0

thrust 0

â(0

(0

1 0

) 0

An 0

aborted 0

takeoff 0

at 0

critical B-parameter

speed I-parameter

; 0

(0

2 0

) 0

Ground 0

roll 0

and 0

initial 0

climb 0

to 0

35 0

feet B-measurement

(0

11 0

meters B-measurement

) 0

above 0

the 0
takeoff 0
surface 0
; 0
and 0
14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2100 0
(0
c 0
) 0
14 0
CFR 0
23 0
. 0

2115 0
(0
c 0
) 0
(0
2 0
) 0
(0
enhanced 0
display 0
) 0
page 0
8 0
of 0
31 0
[0
Doc 0
. 0

No 0
. 0

FAA 0

- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0
amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0
, 0

Dec 0
. 0

9 0
, 0

2022 0

] 0
As 0
23 0
. 0

2120 0
Climb 0
requirements 0
. 0

The 0
design 0
must 0
comply 0
with 0
the 0
following 0
minimum 0
climb 0
performance 0
out 0
of 0
ground 0
effect 0
:
[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0
amended 0
by 0

Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0
, 0

Dec 0
. 0

9 0
, 0

2022 0
] 0
AS 0
23 0
. 0

2125 0
Climb 0
information 0
. 0

(0
3 0
) 0
Net 0
takeoff 0
flight 0
path 0
. 0

(0
a 0
) 0
With 0
all 0
engines B-system
operating 0
and 0
in 0
the 0
initial 0
climb 0

```

configuration 0
( 0
s 0
) 0
â( 0
( 0
1 0
) 0
For 0
levels 0
1 0
and 0
2 0
low 0
- 0
speed 0
airplanes 0
, 0

a 0
climb 0
gradient 0
of 0
8 0
. 0

3 0
percent 0
for 0
landplanes B-asset
and 0
6 0
. 0

7 0
percent 0
for 0
seaplanes B-asset
and 0
amphibians B-asset
; 0
and 0
( 0
2 0
) 0
For 0
levels 0
1 0
and 0
2 0
high 0
- 0
speed 0
airplanes B-asset
, 0

all 0
level 0
3 0
airplanes B-asset
, 0

and 0
level 0

```

4 0
single 0
- 0
engines 0
a 0
climb 0
gradient 0
after 0
takeoff 0
of 0
4 0
percent 0
. 0

(0
b 0
) 0
After 0
a 0
critical 0
loss 0
of 0
thrust 0
on 0
multiengine 0
airplanes B-asset
â(0
(0
1 0
) 0
For 0
levels 0
1 0
and 0
2 0
low 0
- 0
speed 0
airplanes B-asset
that 0
do 0
not 0
meet 0
single 0
- 0
engine 0
crashworthiness 0
requirements 0
, 0

a 0
climb 0
gradient 0
of 0
1 0
. 0

5 0
percent 0
at 0
a 0
pressure B-parameter
altitude I-parameter
of 0

5 0
, 0

000 0
feet B-measurement
(0
1 0
, 0

524 0
meters B-measurement
) 0
in 0
the 0
cruise 0
configuration 0
(0
s 0
) 0
; 0
(0
2 0
) 0
For 0
levels 0
1 0
and 0
2 0
high 0
- 0
speed 0
airplanes B-asset
, 0

and 0
level 0
3 0
low 0
- 0
speed 0
airplanes B-asset
, 0

a 0
1 0
percent 0
climb 0
gradient 0
at 0
400 0
feet B-measurement
(0
122 0
meters B-measurement
) 0
above 0
the 0
takeoff 0
surface 0
with 0
the 0
landing B-system
gear I-system
retracted 0

and 0
flaps 0
in 0
the 0
takeoff 0
configuration 0
(0
s 0
) 0
; 0
and 0
(0
3 0
) 0
For 0
level 0
3 0
high 0
- 0
speed 0
airplanes B-asset
and 0
all 0
level 0
4 0
airplanes B-asset
, 0

a 0
2 0
percent 0
climb 0
gradient 0
at 0
400 0
feet B-measurement
(0
122 0
meters B-measurement
) 0
above 0
the 0
takeoff 0
surface 0
with 0
the 0
landing B-system
gear I-system
retracted 0
and 0
flaps 0
in 0
the 0
approach 0
configuration 0
(0
s 0
) 0
. 0

(0
c 0
) 0
For 0

a 0
balked 0
landing 0
, 0

a 0
climb 0
gradient 0
of 0
3 0
percent 0
without 0
creating 0
undue 0
pilot 0
workload 0
with 0
the 0
landing B-system
gear I-system
extended 0
and 0
flaps 0
in 0
the 0
landing 0
configuration 0
(0
s 0
) 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
determine 0
climb 0
performance 0
at 0
each 0
weight B-parameter
, 0

altitude B-parameter
, 0

and 0
ambient B-parameter
temperature I-parameter
within 0
the 0
operating 0
limitations 0
 $\hat{a}_{\square}$ 0
(0
1 0
) 0
For 0
all 0
single 0
- 0

engine 0
airplanes B-asset
; 0
(0
2 0
) 0
For 0
levels 0
1 0
and 0
2 0
high 0
- 0
speed 0
multiengine 0
airplanes B-asset
and 0
level 0
3 0
multiengine 0
airplanes B-asset
, 0

following 0
a 0
critical 0
loss 0
of 0
thrust B-parameter
on 0
takeoff 0
in 0
the 0
initial 0
climb 0
configuration 0
; 0
and 0
(0
3 0
) 0
For 0
all 0
multiengine 0
airplanes B-asset
, 0

during 0
the 0
enroute 0
phase 0
of 0
flight 0
with 0
all 0
engines B-system
operating 0
and 0
after 0
a 0
critical 0
loss 0
of 0
thrust B-parameter

in 0
the 0
cruise 0
configuration 0
. 0

(0
b 0
) 0
The 0
applicant 0
must 0
determine 0
the 0
glide 0
performance 0
for 0
single 0
- 0
engine 0
airplanes B-asset
after 0
a 0
complete 0
loss 0
of 0
thrust B-parameter
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2115 0
(0
c 0
) 0
(0
3 0
) 0
14 0

CFR 0
23 0
. 0

2125 0
(0
b 0
) 0
(0
enhanced 0
display 0
) 0
page 0
9 0
of 0
31 0
Â§ 0
23 0
. 0

2130 0
Landing 0
. 0

The 0
applicant 0
must 0
determine 0
the 0
following 0
, 0

for 0
standard 0
temperatures B-parameter
at 0
critical 0
combinations 0
of 0
weight B-parameter
and 0
altitude B-parameter
within 0
the 0
operational 0
limits 0
:
FLIGHT 0
CHARACTERISTICS 0
Â§ 0
23 0
. 0

2135 0
Controllability 0
. 0

Â§ 0
23 0
. 0

2140 0
Trim 0
. 0

(0
a 0
) 0
The 0
distance B-parameter
, 0

starting 0
from 0
a 0
height 0
of 0
50 0
feet B-measurement
(0
15 0
meters B-measurement
) 0
above 0
the 0
landing 0
surface 0
, 0

required 0
to 0
land 0
and 0
come 0
to 0
a 0
stop 0
. 0

(0
b 0
) 0
The 0
approach 0
and 0
landing B-parameter
speeds I-parameter
, 0

configurations 0
, 0

and 0
procedures 0
, 0

which 0
allow 0
a 0
pilot 0
of 0
average 0
skill 0
to 0
land 0
within 0
the 0
published 0

landing B-parameter
distance I-parameter
consistently 0
and 0
without 0
causing 0
damage 0
or 0
injury 0
, 0

and 0
which 0
allow 0
for 0
a 0
safe 0
transition 0
to 0
the 0
balked 0
landing 0
conditions 0
of 0
this 0
part 0
accounting 0
for 0
:
(
1
)

Stall B-parameter
speed I-parameter
safety B-parameter
margin I-parameter
;
and
(
2
)
Minimum B-parameter
control I-parameter
speeds I-parameter
.

(
a
)
The
airplane B-asset
must
be
controllable
and
maneuverable
,

without
requiring
exceptional
piloting
skill
,

alertness 0
, 0

or 0
strength 0
, 0

within 0
the 0
operating 0
envelope 0
â(0
(0
1 0
) 0
At 0
all 0
loading 0
conditions 0
for 0
which 0
certification 0
is 0
requested 0
; 0
(0
2 0
) 0
During 0
all 0
phases 0
of 0
flight 0
; 0
(0
3 0
) 0
With 0
likely 0
reversible 0
flight 0
control 0
or 0
propulsion 0
system 0
failure 0
; 0
and 0
(0
4 0
) 0
During 0
configuration 0
changes 0
. 0

(0
b 0
) 0
The 0
airplane B-asset
must 0
be 0

able 0
to 0
complete 0
a 0
landing 0
without 0
causing 0
substantial 0
damage 0
or 0
serious 0
injury 0
using 0
the 0
steepest 0
approved 0
approach 0
gradient 0
procedures 0
and 0
providing 0
a 0
reasonable 0
margin B-parameter
below 0
Vref 0
or 0
above 0
approach 0
angle B-parameter
of I-parameter
attack I-parameter
. 0

(0
c 0
) 0
VMC 0
is 0
the 0
calibrated 0
airspeed B-parameter
at 0
which 0
, 0

following 0
the 0
sudden 0
critical 0
loss 0
of 0
thrust B-parameter
, 0

it 0
is 0
possible 0
to 0
maintain 0
control 0
of 0
the 0
airplane B-asset

. 0

For 0
multiengine 0
airplanes B-asset
, 0

the 0
applicant 0
must 0
determine 0
VMC 0
, 0

if 0
applicable 0
, 0

for 0
the 0
most 0
critical 0
configurations 0
used 0
in 0
takeoff 0
and 0
landing 0
operations 0
. 0

(0
d 0
) 0
If 0
the 0
applicant 0
requests 0
certification 0
of 0
an 0
airplane B-asset
for 0
aerobatics 0
, 0

the 0
applicant 0
must 0
demonstrate 0
those 0
aerobatic 0
maneuvers 0
for 0
which 0
certification 0
is 0
requested 0
and 0
determine 0
entry 0
speeds B-parameter
. 0

(0
a 0
) 0
The 0
airplane B-asset
must 0
maintain B-parameter
lateral I-parameter
and 0
directional B-parameter
trim I-parameter
without 0
further 0
force 0
upon 0
, 0

or 0
movement 0
of 0
, 0

the 0
primary B-control
flight I-control
controls I-control
or 0
corresponding B-control
trim I-control
controls I-control
by 0
the 0
pilot 0
, 0

or 0
the 0
flight B-system
control I-system
system I-system
, 0

under 0
the 0
following 0
conditions 0
:
(0
1 0
) 0
For 0
levels 0
1 0
, 0

2 0
, 0

and 0
3 0
airplanes B-asset
in 0
cruise 0
. 0

(0
2 0
) 0
For 0
level 0
4 0
airplanes B-asset
in 0
normal 0
operations 0
. 0

(0
b 0
) 0
The 0
airplane B-asset
must 0
maintain 0
longitudinal 0
trim 0
without 0
further 0
force 0
upon 0
, 0

or 0
movement 0
of 0
, 0

the 0
primary B-control
flight I-control
controls I-control
or 0
corresponding B-control
trim I-control
controls I-control
by 0
the 0
pilot 0
, 0

or 0
the 0
flight B-system
control I-system
system I-system
, 0

under 0
the 0
following 0
conditions 0
:
0
14 0
CFR 0
Part 0
23 0
(0
up 0

to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2130 0
14 0
CFR 0
23 0
. 0

2140 0
(0
b 0
) 0
(0
enhanced 0
display 0
) 0
page 0
10 0
of 0
31 0
Â§ 0
23 0
. 0

2145 0
Stability 0
. 0

Â§ 0
23 0
. 0

2150 0
Stall 0
characteristics 0
, 0

stall 0
warning 0
, 0

and 0
spins 0
. 0

Â§ 0
23 0
. 0

2155 0
Ground 0
and 0
water 0
handling 0
characteristics 0
. 0

For 0
airplanes B-asset
intended 0
for 0
operation 0
on 0
land 0
or 0
water 0
, 0

the 0
airplane B-asset
must 0
have 0
controllable 0
longitudinal 0
and 0
directional 0
handling 0
characteristics 0
during 0
taxi 0
, 0

takeoff 0
, 0

and 0
landing 0
operations 0
. 0

Â§ 0
23 0
. 0

2160 0
Vibration 0
, 0

buffeting 0
, 0

and 0
high 0
- 0
speed 0
characteristics 0
. 0

(0

1 0
) 0
Climb 0
. 0

(0
2 0
) 0
Level 0
flight 0
. 0

(0
3 0
) 0
Descent 0
. 0

(0
4 0
) 0
Approach 0
. 0

(0
c 0
) 0
Residual 0
control 0
forces 0
must 0
not 0
fatigue 0
or 0
distract 0
the 0
pilot 0
during 0
normal 0
operations 0
of 0
the 0
airplane 0
and 0
likely 0
abnormal 0
or 0
emergency 0
operations 0
, 0

including 0
a 0
critical 0
loss 0
of 0
thrust 0
on 0
multiengine 0
airplanes 0
. 0

(0
a 0

) 0
Airplanes B-asset
not 0
certified 0
for 0
aerobatics 0
must 0
â□ 0
(0
1 0
) 0
Have 0
static B-parameter
longitudinal I-parameter
, 0

lateral 0
, 0

and 0
directional B-parameter
stability I-parameter
in 0
normal 0
operations 0
; 0
(0
2 0
) 0
Have 0
dynamic B-parameter
short I-parameter
period I-parameter
and 0
Dutch B-parameter
roll I-parameter
stability I-parameter
in 0
normal 0
operations 0
; 0
and 0
(0
3 0
) 0
Provide 0
stable 0
control 0
force 0
feedback 0
throughout 0
the 0
operating 0
envelope 0
. 0

(0
b 0
) 0
No 0
airplane B-asset
may 0
exhibit 0
any 0

divergent B-parameter
longitudinal I-parameter
stability I-parameter
characteristic 0
so 0
unstable 0
as 0
to 0
increase 0
the 0
pilot 0
' 0
s 0
workload 0
or 0
otherwise 0
endanger 0
the 0
airplane B-asset
and 0
its 0
occupants 0
. 0

(0
a 0
) 0
The 0
airplane B-asset
must 0
have 0
controllable 0
stall 0
characteristics 0
in 0
straight 0
flight 0
, 0

turning 0
flight 0
, 0

and 0
accelerated 0
turning 0
flight 0
with 0
a 0
clear 0
and 0
distinctive 0
stall 0
warning 0
that 0
provides 0
sufficient 0
margin 0
to 0
prevent 0
inadvertent 0
stalling 0
. 0

(0
b 0
) 0
Single 0
- 0
engine 0
airplanes B-asset
, 0

not 0
certified 0
for 0
aerobatics 0
, 0

must 0
not 0
have 0
a 0
tendency 0
to 0
inadvertently 0
depart 0
controlled 0
flight 0
. 0

(0
c 0
) 0
Levels 0
1 0
and 0
2 0
multiengine 0
airplanes B-asset
, 0

not 0
certified 0
for 0
aerobatics 0
, 0

must 0
not 0
have 0
a 0
tendency 0
to 0
inadvertently 0
depart 0
controlled 0
flight 0
from 0
thrust B-parameter
asymmetry 0
after 0
a 0
critical 0
loss 0
of 0
thrust B-parameter
. 0

(0
d 0
) 0
Airplanes B-asset
certified 0
for 0
aerobatics 0
that 0
include 0
spins 0
must 0
have 0
controllable 0
stall 0
characteristics 0
and 0
the 0
ability 0
to 0
recover 0
within 0
one 0
and 0
one 0
- 0
half 0
additional 0
turns 0
after 0
initiation 0
of 0
the 0
first 0
control 0
action 0
from 0
any 0
point 0
in 0
a 0
spin 0
, 0

not 0
exceeding 0
six 0
turns 0
or 0
any 0
greater 0
number 0
of 0
turns 0
for 0
which 0
certification 0
is 0
requested 0
, 0

while 0
remaining 0
within 0

the 0
operating 0
limitations 0
of 0
the 0
airplane B-asset
. 0

(0
e 0
) 0
Spin 0
characteristics 0
in 0
airplanes B-asset
certified 0
for 0
aerobatics 0
that 0
includes 0
spins 0
must 0
recover 0
without 0
exceeding 0
limitations 0
and 0
may 0
not 0
result 0
in 0
unrecoverable 0
spins 0
â(0
(0
1 0
) 0
With 0
any 0
typical 0
use 0
of 0
the 0
flight 0
or 0
engine B-control
power I-control
controls I-control
; 0
or 0
(0
2 0
) 0
Due 0
to 0
pilot 0
disorientation 0
or 0
incapacitation 0
. 0

(0
a 0
) 0

Vibration 0
and 0
buffeting 0
, 0

for 0
operations 0
up 0
to 0
VD 0
/ 0
MD 0
, 0

must 0
not 0
interfere 0
with 0
the 0
control 0
of 0
the 0
airplane B-asset
or 0
cause 0
excessive 0
fatigue 0
to 0
the 0
flightcrew 0
. 0

Stall 0
warning 0
buffet 0
within 0
these 0
limits 0
is 0
allowable 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset

14 0
CFR 0
23 0
. 0

2140 0
(0
b 0
) 0
(0
1 0
) 0
14 0
CFR 0
23 0
. 0

2160 0
(0
a 0
) 0
(0
enhanced 0
display 0
) 0
page 0
11 0
of 0
31 0
Â§ 0
23 0
. 0

2165 0
Performance 0
and 0
flight 0
characteristics 0
requirements 0
for 0
flight 0
in 0
icing 0
conditions 0
. 0

[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0

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64 0
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81 0
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96689 0
, 0

Dec 0
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30 0
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2016 0
, 0

as 0
amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
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2022 0
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1355 0
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Amdt 0
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23 0
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65 0
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87 0
FR 0
75710 0
, 0

Dec 0
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, 0

2022 0
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Subpart 0
C 0
â(0
Structures 0
Â§ 0
23 0
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2200 0

Structural B-parameter
design I-parameter
envelope I-parameter
. 0

The 0
applicant 0
must 0
determine 0
the 0
structural B-parameter
design I-parameter
envelope I-parameter
, 0

which 0
describes 0
the 0
range 0
and 0
limits 0
of 0
airplane B-asset
design 0
and 0
operational 0
parameters 0
for 0
which 0
the 0
applicant 0
will 0
show 0
compliance 0
with 0
the 0
requirements 0
of 0
this 0
subpart 0
. 0

The 0
applicant 0
must 0
account 0
for 0
all 0
airplane B-asset
design 0
and 0
operational 0
parameters 0
that 0
affect 0
structural B-parameter
loads I-parameter
, 0

strength 0
, 0

durability 0
, 0

and 0
aeroelasticity 0
, 0

including 0
: 0
(0
b 0
) 0
For 0
high 0
- 0
speed 0
airplanes B-asset
and 0
all 0
airplanes B-asset
with 0
a 0
maximum B-parameter
operating I-parameter
altitude I-parameter
greater 0
than 0
25 0
, 0

000 0
feet B-measurement
(0
7 0
, 0

620 0
meters B-measurement
) 0
pressure B-parameter
altitude I-parameter
, 0

there 0
must 0
be 0
no 0
perceptible 0
buffeting 0
in 0
cruise 0
configuration 0
at 0
1g 0
and 0
at 0
any 0
speed B-parameter
up 0
to 0
VMO 0
/ 0
MMO 0
, 0

except 0

stall 0
buffeting 0
. 0

(0
c 0
) 0
For 0
high 0
- 0
speed 0
airplanes B-asset
, 0

the 0
applicant 0
must 0
determine 0
the 0
positive 0
maneuvering B-parameter
load I-parameter
factors I-parameter
at 0
which 0
the 0
onset 0
of 0
perceptible 0
buffet 0
occurs 0
in 0
the 0
cruise 0
configuration 0
within 0
the 0
operational B-parameter
envelope I-parameter
. 0

Likely 0
inadvertent 0
excursions 0
beyond 0
this 0
boundary 0
must 0
not 0
result 0
in 0
structural 0
damage 0
. 0

(0
d 0
) 0
High 0
- 0
speed 0
airplanes B-asset
must 0
have 0

recovery 0
characteristics 0
that 0
do 0
not 0
result 0
in 0
structural 0
damage 0
or 0
loss 0
of 0
control 0
, 0

beginning 0
at 0
any 0
likely 0
speed B-parameter
up 0
to 0
VMO 0
/ 0
MMO 0
, 0

following 0
 $\hat{a}_{\square}$ 0
(0
1 0
) 0
An 0
inadvertent 0
speed B-parameter
increase 0
; 0
and 0
(0
2 0
) 0
A 0
high 0
- 0
speed 0
trim 0
upset 0
for 0
airplanes B-asset
where 0
dynamic B-parameter
pressure I-parameter
can 0
impair 0
the 0
longitudinal B-system
trim I-system
system I-system
operation 0
. 0

(0
a 0
) 0

An 0
applicant 0
who 0
requests 0
certification 0
for 0
flight 0
in 0
icing 0
conditions 0
defined 0
in 0
part 0
1 0
of 0
appendix 0
C 0
to 0
part 0
25 0
of 0
this 0
chapter 0
, 0

or 0
an 0
applicant 0
who 0
requests 0
certification 0
for 0
flight 0
in 0
these 0
icing 0
conditions 0
and 0
any 0
additional 0
atmospheric 0
icing 0
conditions 0
, 0

must 0
show 0
the 0
following 0
in 0
the 0
icing 0
conditions 0
for 0
which 0
certification 0
is 0
requested 0
under 0
normal 0
operation 0
of 0
the 0
ice B-system

protection I-system
system I-system
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s 0
) 0
: 0
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1 0
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Compliance 0
with 0
each 0
requirement 0
of 0
this 0
subpart 0
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except 0
those 0
applicable 0
to 0
spins 0
and 0
any 0
that 0
must 0
be 0
demonstrated 0
at 0
speeds B-parameter
in 0
excess 0
of 0
 $\hat{a}_z$ 0
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; 0
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ii 0
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VMO 0
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MMO 0
or 0
VNE 0
; 0
or 0
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iii 0
) 0
A 0
speed B-parameter
at 0
which 0
the 0
applicant 0
demonstrates 0
the 0
airframe B-system
will 0

be 0
free 0
of 0
ice 0
accretion 0
. 0

(0
2 0
) 0
The 0
means 0
by 0
which 0
stall 0
warning 0
is 0
provided 0
to 0
the 0
pilot 0
for 0
flight 0
in 0
icing 0
conditions 0
and 0
non 0
- 0
icing 0
conditions 0
is 0
the 0
same 0
. 0

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b 0
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If 0
an 0
applicant 0
requests 0
certification 0
for 0
flight 0
in 0
icing 0
conditions 0
, 0

the 0
applicant 0
must 0
provide 0
a 0
means 0
to 0
detect 0
any 0
icing 0
conditions 0
for 0
which 0

certification 0
is 0
not 0
requested 0
and 0
show 0
the 0
airplane 0
' 0
s 0
ability 0
to 0
avoid 0
or 0
exit 0
those 0
conditions 0
. 0

(0
c 0
) 0
The 0
applicant 0
must 0
develop 0
an 0
operating 0
limitation 0
to 0
prohibit 0
intentional 0
flight 0
, 0

including 0
takeoff 0
and 0
landing 0
, 0

into 0
icing 0
conditions 0
for 0
which 0
the 0
airplane 0
is 0
not 0
certified 0
to 0
operate 0
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14 0
CFR 0
Part 0
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Airworthiness 0
Standards 0
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Normal 0
Category 0
Airplanes B-asset
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CFR 0
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23 0

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2205 0

Interaction 0

of 0

systems 0

and 0

structures 0

. 0

For 0

airplanes B-asset

equipped 0

with 0

systems 0

that 0

modify 0

structural 0
performance 0
, 0

alleviate 0
the 0
impact 0
of 0
this 0
subpart 0
' 0
s 0
requirements 0
, 0

or 0
provide 0
a 0
means 0
of 0
compliance 0
with 0
this 0
subpart 0
, 0

the 0
applicant 0
must 0
account 0
for 0
the 0
influence 0
and 0
failure 0
of 0
these 0
systems 0
when 0
showing 0
compliance 0
with 0
the 0
requirements 0
of 0
this 0
subpart 0
. 0

STRUCTURAL B-parameter
LOADS I-parameter
Â§ 0
23 0
. 0

2210 0
Structural B-parameter
design I-parameter
loads I-parameter
. 0

Â§ 0
23 0
. 0

2215 0
Flight B-parameter
load I-parameter
conditions 0
. 0

The 0
applicant 0
must 0
determine 0
the 0
structural B-parameter
design I-parameter
loads I-parameter
resulting 0
from 0
the 0
following 0
flight 0
conditions 0
: 0
(0
a 0
) 0
Structural 0
design B-parameter
airspeeds I-parameter
, 0

landing B-parameter
descent I-parameter
speeds I-parameter
, 0

and 0
any 0
other 0
airspeed B-parameter
limitation 0
at 0
which 0
the 0
applicant 0
must 0
show 0
compliance 0
to 0
the 0
requirements 0
of 0
this 0
subpart 0
. 0

The 0
structural B-parameter
design I-parameter
airspeeds I-parameter
must 0
 $\hat{\alpha}$ 0
(0
1 0
) 0

Be 0
sufficiently 0
greater 0
than 0
the 0
stalling B-parameter
speed I-parameter
of 0
the 0
airplane B-asset
to 0
safeguard 0
against 0
loss 0
of 0
control 0
in 0
turbulent 0
air 0
; 0
and 0
(0
2 0
) 0
Provide 0
sufficient 0
margin 0
for 0
the 0
establishment 0
of 0
practical 0
operational B-parameter
limiting I-parameter
airspeeds I-parameter
. 0

(0
b 0
) 0
Design 0
maneuvering B-parameter
load I-parameter
factors I-parameter
not 0
less 0
than 0
those 0
, 0

which 0
service 0
history 0
shows 0
, 0

may 0
occur 0
within 0
the 0
structural B-parameter
design I-parameter
envelope I-parameter
. 0

(0
c 0
) 0
Inertial 0
properties 0
including 0
weight B-parameter
, 0

center B-parameter
of I-parameter
gravity I-parameter
, 0

and 0
mass B-parameter
moments I-parameter
of I-parameter
inertia I-parameter
, 0

accounting 0
for 0
 $\hat{a}_{\square}$ 0
(0
1 0
) 0
Each 0
critical B-parameter
weight I-parameter
from 0
the 0
airplane B-asset
empty B-parameter
weight I-parameter
to 0
the 0
maximum B-parameter
weight I-parameter
; 0
and 0
(0
2 0
) 0
The 0
weight B-parameter
and 0
distribution 0
of 0
occupants 0
, 0

payload 0
, 0

and 0
fuel 0
. 0

(0
d 0
) 0
Characteristics 0

of 0
airplane B-asset
control B-system
systems I-system
, 0

including 0
range 0
of 0
motion 0
and 0
tolerances 0
for 0
control 0
surfaces 0
, 0

high 0
- 0
lift 0
devices 0
, 0

or 0
other 0
moveable 0
surfaces 0
. 0

(0
e 0
) 0
Each 0
critical B-parameter
altitude I-parameter
up 0
to 0
the 0
maximum B-parameter
altitude I-parameter
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
:
(0
1 0
) 0
Determine 0
the 0
applicable 0
structural B-parameter
design I-parameter
loads I-parameter
resulting 0
from 0
likely 0
externally 0
or 0
internally 0

applied 0
pressures B-parameter
, 0

forces B-parameter
, 0

or 0
moments B-parameter
that 0
may 0
occur 0
in 0
flight 0
, 0

ground 0
and 0
water 0
operations 0
, 0

ground 0
and 0
water 0
handling 0
, 0

and 0
while 0
the 0
airplane B-asset
is 0
parked 0
or 0
moored 0
. 0

(0
2 0
) 0
Determine 0
the 0
loads B-parameter
required 0
by 0
paragraph 0
(0
a 0
) 0
(0
1 0
) 0
of 0
this 0
section 0
at 0
all 0
critical 0
combinations 0
of 0
parameters 0
, 0

on 0
and 0
within 0
the 0
boundaries 0
of 0
the 0
structural B-parameter
design I-parameter
envelope I-parameter
. 0

(0
b 0
) 0
The 0
magnitude 0
and 0
distribution 0
of 0
the 0
applicable 0
structural B-parameter
design I-parameter
loads I-parameter
required 0
by 0
this 0
section 0
must 0
be 0
based 0
on 0
physical 0
principles 0
. 0

(0
a 0
) 0
Atmospheric 0
gusts 0
where 0
the 0
magnitude 0
and 0
gradient 0
of 0
these 0
gusts 0
are 0
based 0
on 0
measured 0
gust 0
statistics 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0

to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2200 0
(0
a 0
) 0
14 0
CFR 0
23 0
. 0

2215 0
(0
a 0
) 0
(0
enhanced 0
display 0
) 0
page 0
13 0
of 0
31 0
Â§ 0
23 0
. 0

2220 0
Ground 0
and 0
water 0
load 0
conditions 0
. 0

The 0
applicant 0
must 0
determine 0
the 0
structural B-parameter
design I-parameter
loads I-parameter
resulting 0
from 0

taxi 0
, 0

takeoff 0
, 0

landing 0
, 0

and 0
handling 0
conditions 0
on 0
the 0
applicable 0
surface 0
in 0
normal 0
and 0
adverse B-parameter
attitudes I-parameter
and 0
configurations 0
. 0

Â§ 0
23 0
. 0

2225 0
Component 0
loading 0
conditions 0
. 0

The 0
applicant 0
must 0
determine 0
the 0
structural B-parameter
design I-parameter
loads I-parameter
acting 0
on 0
:
0
Â§ 0
23 0
. 0

2230 0
Limit 0
and 0
ultimate B-parameter
loads I-parameter
. 0

The 0
applicant 0
must 0
determine 0
â(0
STRUCTURAL 0
PERFORMANCE 0

(0
b 0
) 0
Symmetric 0
and 0
asymmetric 0
maneuvers 0
. 0

(0
c 0
) 0
Asymmetric 0
thrust B-parameter
resulting 0
from 0
the 0
failure 0
of 0
a 0
powerplant 0
unit 0
. 0

(0
a 0
) 0
Each 0
engine B-module
mount I-module
and 0
its 0
supporting 0
structure 0
such 0
that 0
both 0
are 0
designed 0
to 0
withstand 0
loads 0
resulting 0
from 0
 $\hat{a}(\square$ 0
(0
1 0
) 0
Powerplant B-module
operation I-module
combined 0
with 0
flight B-parameter
gust I-parameter
and 0
maneuver B-parameter
loads I-parameter
; 0
and 0
(0
2 0
) 0
For 0
non 0

- 0
reciprocating 0
powerplants B-module
, 0

sudden 0
powerplant B-module
stoppage 0
. 0

(0
b 0
) 0
Each 0
flight 0
control 0
and 0
high 0
- 0
lift 0
surface 0
, 0

their 0
associated 0
system 0
and 0
supporting 0
structure 0
resulting 0
from 0
â(0

(0
1 0
) 0
The 0
inertia 0
of 0
each 0
surface 0
and 0
mass 0
balance 0
attachment 0

; 0
(0
2 0
) 0
Flight 0
gusts 0
and 0
maneuvers 0

; 0
(0
3 0
) 0
Pilot 0
or 0
automated B-system
system I-system
inputs 0
; 0
(0
4 0

) 0
System 0
induced 0
conditions 0
, 0

including 0
jamming 0
and 0
friction 0
; 0
and 0
(0
5 0
) 0
Taxi 0
, 0

takeoff 0
, 0

and 0
landing 0
operations 0
on 0
the 0
applicable 0
surface 0
, 0

including 0
downwind 0
taxi 0
and 0
gusts 0
occurring 0
on 0
the 0
applicable 0
surface 0
. 0

(0
c 0
) 0
A 0
pressurized 0
cabin 0
resulting 0
from 0
the 0
pressurization 0
differential 0
 Δ 0
(0
1 0
) 0
From 0
zero 0
up 0
to 0
the 0
maximum 0
relief 0

pressure 0
combined 0
with 0
gust 0
and 0
maneuver B-parameter
loads I-parameter
; 0
(0
2 0
) 0
From 0
zero 0
up 0
to 0
the 0
maximum 0
relief 0
pressure 0
combined 0
with 0
ground B-parameter
and I-parameter
water I-parameter
loads I-parameter
if 0
the 0
airplane B-asset
may 0
land 0
with 0
the 0
cabin 0
pressurized 0
; 0
and 0
(0
3 0
) 0
At 0
the 0
maximum B-parameter
relief I-parameter
pressure I-parameter
multiplied 0
by 0
1 0
. 0

33 0
, 0

omitting 0
all 0
other 0
loads 0
. 0

(0
a 0
) 0
The 0
limit B-parameter
loads I-parameter

, 0

which 0
are 0
equal 0
to 0
the 0
structural B-parameter
design I-parameter
loads I-parameter
unless 0
otherwise 0
specified 0
elsewhere 0
in 0
this 0
part 0
; 0
and 0
(0
b 0
) 0
The 0
ultimate B-parameter
loads I-parameter
, 0

which 0
are 0
equal 0
to 0
the 0
limit B-parameter
loads I-parameter
multiplied 0
by 0
a 0
1 0
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5 0
factor 0
of 0
safety 0
unless 0
otherwise 0
specified 0
elsewhere 0
in 0
this 0
part 0
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14 0
CFR 0
Part 0
23 0
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2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
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2215 0
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b 0
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14 0
CFR 0
23 0
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2230 0
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b 0
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enhanced 0
display 0
) 0
page 0
14 0
of 0
31 0
Â§ 0
23 0
. 0

2235 0
Structural B-parameter
strength I-parameter
. 0

The 0
structure 0
must 0
support 0
: 0
Â§ 0
23 0
. 0

2240 0
Structural B-parameter
durability I-parameter
. 0

Â§ 0
23 0
. 0

2245 0
Aeroelasticity B-parameter
. 0

DESIGN 0
Â§ 0
23 0
. 0

2250 0
Design 0
and 0
construction 0
principles 0
. 0

(0
a 0
) 0
Limit B-parameter
loads I-parameter
without 0
 $\hat{a}_{\square}$ 0
(0
1 0
) 0
Interference 0
with 0
the 0
safe 0
operation 0
of 0
the 0
airplane B-asset
; 0
and 0
(0
2 0
) 0
Detrimental 0
permanent 0
deformation 0
. 0

(0
b 0
) 0
Ultimate B-parameter
loads I-parameter
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
develop 0
and 0
implement 0
inspections 0
or 0
other 0
procedures 0

to 0
prevent 0
structural 0
failures 0
due 0
to 0
foreseeable 0
causes 0
of 0
strength 0
degradation 0
, 0

which 0
could 0
result 0
in 0
serious 0
or 0
fatal 0
injuries 0
, 0

or 0
extended 0
periods 0
of 0
operation 0
with 0
reduced 0
safety 0
margins 0
. 0

Each 0
of 0
the 0
inspections 0
or 0
other 0
procedures 0
developed 0
under 0
this 0
section 0
must 0
be 0
included 0
in 0
the 0
Airworthiness 0
Limitations 0
Section 0
of 0
the 0
Instructions 0
for 0
Continued 0
Airworthiness 0
required 0
by 0
Â§ 0
23 0
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1529 0

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b 0

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For 0

Level 0

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airplanes B-asset

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the 0

procedures 0

developed 0

for 0

compliance 0

with 0

paragraph 0

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section 0

must 0

be 0

capable 0

of 0

detecting 0

structural 0

damage 0

before 0

the 0

damage 0

could 0

result 0

in 0

structural 0

failure 0

. 0

(0

c 0

) 0

For 0

pressurized 0

airplanes B-asset

: 0

(0

1 0

) 0

The 0

airplane B-asset

must 0

be 0

capable 0

of 0

continued 0

safe 0

flight 0

and 0

landing 0

following 0
a 0
sudden 0
release 0
of 0
cabin B-parameter
pressure I-parameter
, 0

including 0
sudden 0
releases 0
caused 0
by 0
door 0
and 0
window 0
failures 0
. 0

(0
2 0
) 0
For 0
airplanes B-asset
with 0
maximum B-parameter
operating I-parameter
altitude I-parameter
greater 0
than 0
41 0
, 0

000 0
feet B-measurement
, 0

the 0
procedures 0
developed 0
for 0
compliance 0
with 0
paragraph 0
(0
a 0
) 0
of 0
this 0
section 0
must 0
be 0
capable 0
of 0
detecting 0
damage 0
to 0
the 0
pressurized 0
cabin 0
structure 0
before 0
the 0

damage 0
could 0
result 0
in 0
rapid 0
decompression 0
that 0
would 0
result 0
in 0
serious 0
or 0
fatal 0
injuries 0
. 0

(0
d 0
) 0
The 0
airplane B-asset
must 0
be 0
designed 0
to 0
minimize 0
hazards 0
to 0
the 0
airplane B-asset
due 0
to 0
structural 0
damage 0
caused 0
by 0
high 0
- 0
energy 0
fragments 0
from 0
an 0
uncontained 0
engine B-system
or 0
rotating 0
machinery 0
failure 0
. 0

(0
a 0
) 0
The 0
airplane B-asset
must 0
be 0
free 0
from 0
flutter 0
, 0

control 0
reversal 0

, 0
 and 0
 divergence 0
 $\hat{a}_{\square}$ 0
 (0
 1 0
) 0
 At 0
 all 0
 speeds B-parameter
 within 0
 and 0
 sufficiently 0
 beyond 0
 the 0
 structural B-parameter
 design I-parameter
 envelope I-parameter
 ; 0
 (0
 2 0
) 0
 For 0
 any 0
 configuration 0
 and 0
 condition 0
 of 0
 operation 0
 ; 0
 (0
 3 0
) 0
 Accounting 0
 for 0
 critical B-parameter
 degrees I-parameter
 of I-parameter
 freedom I-parameter
 ; 0
 and 0
 (0
 4 0
) 0
 Accounting 0
 for 0
 any 0
 critical 0
 failures 0
 or 0
 malfunctions 0
 . 0

 (0
 b 0
) 0
 The 0
 applicant 0
 must 0
 establish 0
 tolerances 0
 for 0
 all 0

quantities 0
that 0
affect 0
flutter B-parameter
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
design 0
each 0
part 0
, 0

article 0
, 0

and 0
assembly 0
for 0
the 0
expected 0
operating 0
conditions 0
of 0
the 0
airplane 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2235 0
14 0
CFR 0
23 0
. 0

2250 0
(0
a 0
) 0
(0
enhanced 0
display 0
) 0
page 0
15 0
of 0
31 0
Â§ 0
23 0
. 0

2255 0
Protection 0
of 0
structure 0
. 0

[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0
amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0
, 0

Dec 0
. 0

9 0
, 0

2022 0
] 0
AS 0
23 0
. 0

2260 0
Materials 0
and 0
processes 0
. 0

(0
b 0
) 0
Design 0
data 0
must 0
adequately 0
define 0
the 0
part 0
, 0

article 0
, 0

or 0
assembly 0
configuration 0
, 0

its 0
design 0

features 0
, 0

and 0
any 0
materials 0
and 0
processes 0
used 0
. 0

(0
c 0
) 0
The 0
applicant 0
must 0
determine 0
the 0
suitability 0
of 0
each 0
design 0
detail 0
and 0
part 0
having 0
an 0
important 0
bearing 0
on 0
safety 0
in 0
operations 0
. 0

(0
d 0
) 0
The 0
control B-system
system I-system
must 0
be 0
free 0
from 0
jamming 0
, 0

excessive 0
friction 0
, 0

and 0
excessive 0
deflection 0
when 0
the 0
airplane 0
is 0
subjected 0
to 0
expected 0
limit B-parameter

airloads I-parameter

. 0

(0

e 0

) 0

Doors 0

, 0

canopies 0

, 0

and 0

exits 0

must 0

be 0

protected 0

against 0

inadvertent 0

opening 0

in 0

flight 0

, 0

unless 0

shown 0

to 0

create 0

no 0

hazard 0

when 0

opened 0

in 0

flight 0

. 0

(0

a 0

) 0

The 0

applicant 0

must 0

protect 0

each 0

part 0

of 0

the 0

airplane B-asset

, 0

including 0

small 0

parts 0

such 0

as 0

fasteners B-component

, 0

against 0

deterioration 0

or 0

loss 0

of 0

strength 0

due 0
to 0
any 0
cause 0
likely 0
to 0
occur 0
in 0
the 0
expected 0
operational 0
environment 0
. 0

(0
b 0
) 0
Each 0
part 0
of 0
the 0
airplane 0
must 0
have 0
adequate 0
provisions 0
for 0
ventilation 0
and 0
drainage 0
. 0

(0
c 0
) 0
For 0
each 0
part 0
that 0
requires 0
maintenance 0
, 0

preventive 0
maintenance 0
, 0

or 0
servicing 0
, 0

the 0
applicant 0
must 0
incorporate 0
a 0
means 0
into 0
the 0
airplane B-asset
design 0
to 0
allow 0
such 0

actions 0
to 0
be 0
accomplished 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
determine 0
the 0
suitability 0
and 0
durability 0
of 0
materials 0
used 0
for 0
parts 0
, 0

articles 0
, 0

and 0
assemblies 0
, 0

accounting 0
for 0
the 0
effects 0
of 0
likely 0
environmental 0
conditions 0
expected 0
in 0
service 0
, 0

the 0
failure 0
of 0
which 0
could 0
prevent 0
continued 0
safe 0
flight 0
and 0
landing 0
. 0

(0
b 0
) 0
The 0
methods 0
and 0
processes 0

of 0
fabrication 0
and 0
assembly 0
used 0
must 0
produce 0
consistently 0
sound 0
structures 0
. 0

If 0
a 0
fabrication 0
process 0
requires 0
close 0
control 0
to 0
reach 0
this 0
objective 0
, 0

the 0
applicant 0
must 0
perform 0
the 0
process 0
under 0
an 0
approved 0
process 0
specification 0
. 0

(0
c 0
) 0
Except 0
as 0
provided 0
in 0
paragraphs 0
(0
f 0
) 0
and 0
(0
g 0
) 0
of 0
this 0
section 0
, 0

the 0
applicant 0
must 0
select 0
design 0
values 0

that 0
ensure 0
material 0
strength 0
with 0
probabilities 0
that 0
account 0
for 0
the 0
criticality 0
of 0
the 0
structural 0
element 0
. 0

Design 0
values 0
must 0
account 0
for 0
the 0
probability 0
of 0
structural 0
failure 0
due 0
to 0
material 0
variability 0
. 0

(0
d 0
) 0
If 0
material 0
strength 0
properties 0
are 0
required 0
, 0

a 0
determination 0
of 0
those 0
properties 0
must 0
be 0
based 0
on 0
sufficient 0
tests 0
of 0
material 0
meeting 0
specifications 0
to 0
establish 0
design 0
values 0
on 0

a 0
statistical 0
basis 0
. 0

(0
e 0
) 0
If 0
thermal 0
effects 0
are 0
significant 0
on 0
a 0
critical 0
component 0
or 0
structure 0
under 0
normal 0
operating 0
conditions 0
, 0

the 0
applicant 0
must 0
determine 0
those 0
effects 0
on 0
allowable 0
stresses 0
used 0
for 0
design 0
. 0

(0
f 0
) 0
Design 0
values 0
, 0

greater 0
than 0
the 0
minimums 0
specified 0
by 0
this 0
section 0
, 0

may 0
be 0
used 0
, 0

where 0
only 0
guaranteed 0

minimum 0
values 0
are 0
normally 0
allowed 0
, 0

if 0
a 0
specimen 0
of 0
each 0
individual 0
item 0
is 0
tested 0
before 0
use 0
to 0
determine 0
that 0
the 0
actual 0
strength B-parameter
properties I-parameter
of 0
that 0
particular 0
item 0
will 0
equal 0
or 0
exceed 0
those 0
used 0
in 0
the 0
design 0
. 0

(0
g 0
) 0
An 0
applicant 0
may 0
use 0
other 0
material 0
design 0
values 0
if 0
approved 0
by 0
the 0
Administrator 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0

to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes 0
14 0
CFR 0
23 0
. 0

2250 0
(0
b 0
) 0
14 0
CFR 0
23 0
. 0

2260 0
(0
g 0
) 0
(0
enhanced 0
display 0
) 0
page 0
16 0
of 0
31 0
Â§ 0
23 0
. 0

2265 0
Special 0
factors 0
of 0
safety 0
. 0

STRUCTURAL 0
OCCUPANT 0
PROTECTION 0
Â§ 0
23 0
. 0

2270 0
Emergency 0
conditions 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
determine 0
a 0
special 0
factor B-parameter
of I-parameter
safety I-parameter
for 0
each 0
critical 0
design 0
value 0
for 0
each 0
part 0
, 0

article 0
, 0

or 0
assembly 0
for 0
which 0
that 0
critical 0
design 0
value 0
is 0
uncertain 0
, 0

and 0
for 0
each 0
part 0
, 0

article 0
, 0

or 0
assembly 0
that 0
is 0
â(0
(0
1 0
) 0
Likely 0
to 0
deteriorate 0
in 0
service 0
before 0
normal 0
replacement 0
; 0

or 0
(0
2 0
) 0
Subject 0
to 0
appreciable 0
variability 0
because 0
of 0
uncertainties 0
in 0
manufacturing 0
processes 0
or 0
inspection 0
methods 0
. 0

(0
b 0
) 0
The 0
applicant 0
must 0
determine 0
a 0
special 0
factor 0
of 0
safety 0
using 0
quality 0
controls 0
and 0
specifications 0
that 0
account 0
for 0
each 0
â(0
(0
1 0
) 0
Type 0
of 0
application 0
; 0
(0
2 0
) 0
Inspection 0
method 0
; 0
(0
3 0
) 0
Structural 0
test 0
requirement 0
; 0
(0
4 0
) 0

Sampling 0
percentage 0
; 0
and 0
(0
5 0
) 0
Process 0
and 0
material 0
control 0
. 0

(0
c 0
) 0
The 0
applicant 0
must 0
multiply 0
the 0
highest 0
pertinent 0
special 0
factor 0
of 0
safety 0
in 0
the 0
design 0
for 0
each 0
part 0
of 0
the 0
structure 0
by 0
each 0
limit 0
and 0
ultimate B-parameter
load I-parameter
, 0

or 0
ultimate 0
load 0
only 0
, 0

if 0
there 0
is 0
no 0
corresponding 0
limit 0
load 0
, 0

such 0
as 0
occurs 0
with 0
emergency 0

condition 0
loading 0
. 0

(0
a 0
) 0
The 0
airplane B-asset
, 0

even 0
when 0
damaged 0
in 0
an 0
emergency 0
landing 0
, 0

must 0
protect 0
each 0
occupant 0
against 0
injury 0
that 0
would 0
preclude 0
egress 0
when 0
â(0
(0
1 0
) 0
Properly 0
using 0
safety 0
equipment 0
and 0
features 0
provided 0
for 0
in 0
the 0
design 0
; 0
(0
2 0
) 0
The 0
occupant 0
experiences 0
ultimate B-parameter
static I-parameter
inertia I-parameter
loads I-parameter
likely 0
to 0
occur 0
in 0
an 0
emergency 0
landing 0

; 0
and 0
(0
3 0
) 0
Items 0
of 0
mass 0
, 0

including 0
engines B-system
or 0
auxiliary B-module
power I-module
units I-module
(0
APUs 0
) 0
, 0

within 0
or 0
aft 0
of 0
the 0
cabin B-system
, 0

that 0
could 0
injure 0
an 0
occupant 0
, 0

experience 0
ultimate B-parameter
static I-parameter
inertia I-parameter
loads I-parameter
likely 0
to 0
occur 0
in 0
an 0
emergency 0
landing 0
. 0

(0
b 0
) 0
The 0
emergency 0
landing 0
conditions 0
specified 0
in 0
paragraph 0
(0
a 0
) 0
(0

1 0
) 0
and 0
(0
a 0
) 0
(0
2 0
) 0
of 0
this 0
section 0
, 0

must 0
â(0
(0
1 0
) 0
Include 0
dynamic 0
conditions 0
that 0
are 0
likely 0
to 0
occur 0
in 0
an 0
emergency 0
landing 0
; 0
and 0
(0
2 0
) 0
Not 0
generate 0
loads B-parameter
experienced 0
by 0
the 0
occupants 0
, 0

which 0
exceed 0
established 0
human 0
injury 0
criteria 0
for 0
human 0
tolerance 0
due 0
to 0
restraint 0
or 0
contact 0
with 0
objects 0
in 0
the 0
airplane 0

. 0

(0

c 0

) 0

The 0

airplane 0

must 0

provide 0

protection 0

for 0

all 0

occupants 0

, 0

accounting 0

for 0

likely 0

flight 0

, 0

ground 0

, 0

and 0

emergency 0

landing 0

conditions 0

. 0

(0

d 0

) 0

Each 0

occupant B-system

protection I-system

system I-system

must 0

perform 0

its 0

intended 0

function 0

and 0

not 0

create 0

a 0

hazard 0

that 0

could 0

cause 0

a 0

secondary 0

injury 0

to 0

an 0

occupant 0

. 0

The 0

occupant B-system

protection I-system

system I-system

must 0

not 0

prevent 0
occupant 0
egress 0
or 0
interfere 0
with 0
the 0
operation 0
of 0
the 0
airplane B-asset
when 0
not 0
in 0
use 0
. 0

(0
e 0
) 0
Each 0
baggage B-system
and 0
cargo B-system
compartment 0
must 0
â(0
14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2265 0
14 0
CFR 0
23 0
. 0

2270 0
(0
e 0
) 0

(0
enhanced 0
display 0
) 0
page 0
17 0
of 0
31 0
Subpart 0
D 0
â(0
Design 0
and 0
Construction 0
Â§ 0
23 0
. 0

2300 0
Flight B-system
control I-system
systems I-system
. 0

Â§ 0
23 0
. 0

2305 0
Landing B-system
gear I-system
systems I-system
. 0

Â§ 0
23 0
. 0

2310 0
Buoyancy 0
for 0
seaplanes B-asset
and 0
amphibians 0
. 0

Airplanes B-asset
intended 0
for 0
operations 0
on 0
water 0
, 0

must 0
â(0
(0
1 0
) 0
Be 0
designed 0
for 0
its 0
maximum B-parameter

weight I-parameter
of 0
contents 0
and 0
for 0
the 0
critical B-parameter
load I-parameter
distributions 0
at 0
the 0
maximum B-parameter
load I-parameter
factors I-parameter
corresponding 0
to 0
the 0
flight 0
and 0
ground B-parameter
load I-parameter
conditions 0
determined 0
under 0
this 0
part 0
; 0
(0
2 0
) 0
Have 0
a 0
means 0
to 0
prevent 0
the 0
contents 0
of 0
the 0
compartment 0
from 0
becoming 0
a 0
hazard 0
by 0
impacting 0
occupants 0
or 0
shifting 0
; 0
and 0
(0
3 0
) 0
Protect 0
any 0
controls B-system
, 0

wiring 0
, 0

lines 0
, 0

equipment 0
, 0

or 0
accessories 0
whose 0
damage 0
or 0
failure 0
would 0
affect 0
safe 0
operations 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
design 0
airplane B-asset
flight B-system
control I-system
systems I-system
to 0
:
(0
1 0
) 0
Operate 0
easily 0
, 0

smoothly 0
, 0

and 0
positively 0
enough 0
to 0
allow 0
proper 0
performance 0
of 0
their 0
functions 0
. 0

(0
2 0
) 0
Protect 0
against 0
likely 0
hazards 0
. 0

(0
b 0
) 0
The 0

applicant 0
must 0
design 0
trim B-system
systems I-system
, 0

if 0
installed 0
, 0

to 0
: 0
(0
1 0
) 0
Protect 0
against 0
inadvertent 0
, 0

incorrect 0
, 0

or 0
abrupt 0
trim 0
operation 0
. 0

(0
2 0
) 0
Provide 0
a 0
means 0
to 0
indicate 0
 $\hat{a}(\square$ 0
(0
i 0
) 0
The 0
direction 0
of 0
trim 0
control 0
movement 0
relative 0
to 0
airplane B-asset
motion 0
; 0
(0
ii 0
) 0
The 0
trim B-parameter
position I-parameter
with 0
respect 0
to 0
the 0
trim B-parameter

range I-parameter
; 0
(0
iii 0
) 0
The 0
neutral 0
position 0
for 0
lateral 0
and 0
directional B-parameter
trim I-parameter
; 0
and 0
(0
iv 0
) 0
The 0
range 0
for 0
takeoff 0
for 0
all 0
applicant 0
requested 0
center B-parameter
of I-parameter
gravity I-parameter
ranges 0
and 0
configurations 0
. 0

(0
a 0
) 0
The 0
landing B-system
gear I-system
must 0
be 0
designed 0
to 0
â(0
(0
1 0
) 0
Provide 0
stable 0
support 0
and 0
control 0
to 0
the 0
airplane 0
during 0
surface 0
operation 0
; 0
and 0
(0
2 0
) 0

Account 0
for 0
likely 0
system 0
failures 0
and 0
likely 0
operation 0
environments 0
(0
including 0
anticipated 0
limitation 0
exceedances 0
and 0
emergency 0
procedures 0
) 0
. 0

(0
b 0
) 0
All 0
airplanes B-asset
must 0
have 0
a 0
reliable 0
means 0
of 0
stopping 0
the 0
airplane B-asset
with 0
sufficient 0
kinetic 0
energy 0
absorption 0
to 0
account 0
for 0
landing 0
. 0

Airplanes B-asset
that 0
are 0
required 0
to 0
demonstrate 0
aborted 0
takeoff 0
capability 0
must 0
account 0
for 0
this 0
additional 0
kinetic 0
energy 0
. 0

(0

c 0
) 0
For 0
airplanes B-asset
that 0
have 0
a 0
system 0
that 0
actuates 0
the 0
landing B-system
gear I-system
, 0

there 0
is 0
â(0
(0
1 0
) 0
A 0
positive 0
means 0
to 0
keep 0
the 0
landing B-system
gear I-system
in 0
the 0
landing 0
position 0
; 0
and 0
(0
2 0
) 0
An 0
alternative 0
means 0
available 0
to 0
bring 0
the 0
landing 0
gear 0
in 0
the 0
landing 0
position 0
when 0
a 0
non 0
- 0
deployed 0
system 0
position 0
would 0
be 0
a 0
hazard 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2270 0
(0
e 0
) 0
(0
1 0
) 0
14 0
CFR 0
23 0
. 0

2310 0
(0
enhanced 0
display 0
) 0
page 0
18 0
of 0
31 0
OCCUPANT 0
SYSTEM 0
DESIGN 0
PROTECTION 0
Â§ 0
23 0
. 0

2315 0
Means 0
of 0
egress 0
and 0
emergency 0
exits 0
. 0

[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0
amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0

, 0

Dec 0

. 0

9 0

, 0

2022 0

] 0

Å§ 0

23 0

. 0

2320 0

Occupant 0

physical 0

environment 0

. 0

FIRE 0

AND 0

HIGH 0

ENERGY 0

PROTECTION 0

(0

a 0

) 0

Provide 0

buoyancy 0

of 0

80 0

percent 0

in 0

excess 0

of 0

the 0

buoyancy 0

required 0

to 0

support 0

the 0

maximum B-parameter

weight I-parameter

of 0

the 0

airplane B-asset

in 0

fresh 0

water 0

; 0

and 0

(0

b 0

) 0

Have 0

sufficient 0

margin 0

so 0

the 0

airplane B-asset

will 0

stay 0

afloat 0

at 0
rest 0
in 0
calm 0
water 0
without 0
capsizing 0
in 0
case 0
of 0
a 0
likely 0
float 0
or 0
hull 0
flooding 0
. 0

(0
a 0
) 0
With 0
the 0
cabin 0
configured 0
for 0
takeoff 0
or 0
landing 0
, 0

the 0
airplane B-asset
is 0
designed 0
to 0
:
(0
1 0
) 0
Facilitate 0
rapid 0
and 0
safe 0
evacuation 0
of 0
the 0
airplane B-asset
in 0
conditions 0
likely 0
to 0
occur 0
following 0
an 0
emergency 0
landing 0
, 0

excluding 0
ditching 0
for 0
level 0
1 0

, 0

level 0

2 0

, 0

and 0

single 0

- 0

engine 0

level 0

3 0

airplanes B-asset

. 0

(0

2 0

) 0

Have 0

means 0

of 0

egress 0

(0

openings 0

, 0

exits 0

, 0

or 0

emergency 0

exits 0

) 0

, 0

that 0

can 0

be 0

readily 0

located 0

and 0

opened 0

from 0

the 0

inside 0

and 0

outside 0

. 0

The 0

means 0

of 0

opening 0

must 0

be 0

simple 0

and 0

obvious 0

and 0

marked 0

inside 0

and 0

outside 0

the 0

airplane 0
. 0

(0
3 0
) 0
Have 0
easy 0
access 0
to 0
emergency 0
exits 0
when 0
present 0
. 0

(0
b 0
) 0
Airplanes B-asset
approved 0
for 0
aerobatics 0
must 0
have 0
a 0
means 0
to 0
egress 0
the 0
airplane B-asset
in 0
flight 0
. 0

(0
a 0
) 0
The 0
applicant 0
must 0
design 0
the 0
airplane B-asset
to 0
â(0
(0
1 0
) 0
Allow 0
clear 0
communication 0
between 0
the 0
flightcrew 0
and 0
passengers 0
; 0
(0
2 0
) 0
Protect 0
the 0
pilot 0

and 0
flight 0
controls 0
from 0
propellers B-system
; 0
and 0
(0
3 0
) 0
Protect 0
the 0
occupants 0
from 0
serious 0
injury 0
due 0
to 0
damage 0
to 0
windshields B-component
, 0

windows B-component
, 0

and 0
canopies B-component
. 0

(0
b 0
) 0
For 0
level 0
4 0
airplanes B-asset
, 0

each 0
windshield B-component
and 0
its 0
supporting B-component
structure I-component
directly 0
in 0
front 0
of 0
the 0
pilot 0
must 0
withstand 0
, 0

without 0
penetration 0
, 0

the 0
impact 0
equivalent 0
to 0
a 0

two 0
- 0
pound 0
bird 0
when 0
the 0
velocity 0
of 0
the 0
airplane B-asset
is 0
equal 0
to 0
the 0
airplane B-asset
' 0
s 0
maximum B-parameter
approach I-parameter
flap I-parameter
speed I-parameter
. 0

(0
c 0
) 0
The 0
airplane B-asset
must 0
provide 0
each 0
occupant 0
with 0
air 0
at 0
a 0
breathable 0
pressure 0
, 0

free 0
of 0
hazardous 0
concentrations 0
of 0
gases 0
, 0

vapors 0
, 0

and 0
smoke 0
during 0
normal 0
operations 0
and 0
likely 0
failures 0
. 0

(0
d 0
) 0

If 0
a 0
pressurization B-system
system I-system
is 0
installed 0
in 0
the 0
airplane B-asset
, 0

it 0
must 0
be 0
designed 0
to 0
protect 0
against 0
â(0
(0
1 0
) 0
Decompression 0
to 0
an 0
unsafe 0
level 0
;
and 0
(0
2 0
) 0
Excessive 0
differential 0
pressure 0
. 0

(0
e 0
) 0
If 0
an 0
oxygen B-system
system I-system
is 0
installed 0
in 0
the 0
airplane B-asset
, 0

it 0
must 0
â(0
(0
1 0
) 0
Effectively 0
provide 0
oxygen 0
to 0
each 0
user 0
to 0

prevent 0
the 0
effects 0
of 0
hypoxia 0
; 0
and 0
(0
2 0
) 0
Be 0
free 0
from 0
hazards 0
in 0
itself 0
, 0

in 0
its 0
method 0
of 0
operation 0
, 0

and 0
its 0
effect 0
upon 0
other 0
components 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2310 0
(0
a 0
) 0

14 0
CFR 0
23 0
. 0

2320 0
(0
e 0
) 0
(0
2 0
) 0
(0
enhanced 0
display 0
) 0
page 0
19 0
of 0
31 0
Â§ 0
23 0
. 0

2325 0
Fire 0
protection 0
. 0

Â§ 0
23 0
. 0

2330 0
Fire 0
protection 0
in 0
designated 0
fire 0
zones 0
and 0
adjacent 0
areas 0
. 0

(0
a 0
) 0
The 0
following 0
materials 0
must 0
be 0
self 0
- 0
extinguishing 0
â(□ 0
(0
1 0
) 0
Insulation 0
on 0
electrical B-component
wire I-component

and 0
electrical B-component
cable I-component
; 0
(0
2 0
) 0
For 0
levels 0
1 0
, 0

2 0
, 0

and 0
3 0
airplanes B-asset
, 0

materials 0
in 0
the 0
baggage B-system
and 0
cargo B-system
compartments 0
inaccessible 0
in 0
flight 0
; 0
and 0
(0
3 0
) 0
For 0
level 0
4 0
airplanes B-asset
, 0

materials 0
in 0
the 0
cockpit B-module
, 0

cabin B-system
, 0

baggage B-system
, 0

and 0
cargo B-system
compartments 0
. 0

(0
b 0
) 0
The 0
following 0
materials 0

must 0
be 0
flame 0
resistant 0
â(0
(0
1 0
) 0
For 0
levels 0
1 0
, 0

2 0
and 0
3 0
airplanes B-asset
, 0

materials 0
in 0
each 0
compartment 0
accessible 0
in 0
flight 0
; 0
and 0
(0
2 0
) 0
Any 0
equipment 0
associated 0
with 0
any 0
electrical B-component
cable I-component
installation 0
and 0
that 0
would 0
overheat 0
in 0
the 0
event 0
of 0
circuit 0
overload 0
or 0
fault 0
. 0

(0
c 0
) 0
Thermal 0
/ 0
acoustic 0
materials 0
in 0
the 0
fuselage B-system
, 0

if 0
installed 0
, 0

must 0
not 0
be 0
a 0
flame 0
propagation 0
hazard 0
. 0

(0
d 0
) 0
Sources 0
of 0
heat 0
within 0
each 0
baggage B-system
and 0
cargo B-system
compartment 0
that 0
are 0
capable 0
of 0
igniting 0
adjacent 0
objects 0
must 0
be 0
shielded 0
and 0
insulated 0
to 0
prevent 0
such 0
ignition 0
. 0

(0
e 0
) 0
For 0
level 0
4 0
airplanes B-asset
, 0

each 0
baggage B-system
and 0
cargo B-system
compartment 0
must 0
â(0
(0
1 0
) 0
Be 0

located 0
where 0
a 0
fire 0
would 0
be 0
visible 0
to 0
the 0
pilots 0
, 0

or 0
equipped 0
with 0
a 0
fire B-system
detection I-system
system I-system
and 0
warning B-system
system I-system
; 0
and 0
(0
2 0
) 0
Be 0
accessible 0
for 0
the 0
manual 0
extinguishing 0
of 0
a 0
fire 0
, 0

have 0
a 0
built 0
- 0
in 0
fire B-system
extinguishing I-system
system I-system
, 0

or 0
be 0
constructed 0
and 0
sealed 0
to 0
contain 0
any 0
fire 0
within 0
the 0
compartment 0
. 0

(0
f 0

) 0
There 0
must 0
be 0
a 0
means 0
to 0
extinguish 0
any 0
fire 0
in 0
the 0
cabin B-system
such 0
that 0
â(0
(0
1 0
) 0
The 0
pilot 0
, 0

while 0
seated 0
, 0

can 0
easily 0
access 0
the 0
fire 0
extinguishing 0
means 0
;
and 0
(0
2 0
) 0
For 0
levels 0
3 0
and 0
4 0
airplanes B-asset
, 0

passengers 0
have 0
a 0
fire 0
extinguishing 0
means 0
available 0
within 0
the 0
passenger 0
compartment 0
. 0

(0
g 0
) 0
Each 0

area 0
where 0
flammable 0
fluids 0
or 0
vapors 0
might 0
escape 0
by 0
leakage 0
of 0
a 0
fluid B-system
system I-system
must 0
â(0
(0
1 0
) 0
Be 0
defined 0
; 0
and 0
(0
2 0
) 0
Have 0
a 0
means 0
to 0
minimize 0
the 0
probability 0
of 0
fluid 0
and 0
vapor 0
ignition 0
, 0

and 0
the 0
resultant 0
hazard 0
, 0

if 0
ignition 0
occurs 0
. 0

(0
h 0
) 0
Combustion B-module
heater I-module
installations I-module
must 0
be 0
protected 0
from 0
uncontained 0
fire 0
. 0

(0
a 0
) 0
Flight B-control
controls I-control
, 0

engine B-module
mounts I-module
, 0

and 0
other 0
flight 0
structures 0
within 0
or 0
adjacent 0
to 0
designated 0
fire 0
zones 0
must 0
be 0
capable 0
of 0
withstanding 0
the 0
effects 0
of 0
a 0
fire 0
. 0

(0
b 0
) 0
Engines B-system
in 0
a 0
designated 0
fire 0
zone 0
must 0
remain 0
attached 0
to 0
the 0
airplane B-asset
in 0
the 0
event 0
of 0
a 0
fire 0
. 0

(0
c 0
) 0
In 0
designated 0
fire 0

zones 0
, 0

terminals 0
, 0

equipment 0
, 0

and 0
electrical 0
cables 0
used 0
during 0
emergency 0
procedures 0
must 0
be 0
fire 0
- 0
resistant 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2325 0
14 0
CFR 0
23 0
. 0

2330 0
(0
c 0
) 0
(0
enhanced 0
display 0
) 0

page 0
20 0
of 0
31 0
Â§ 0
23 0
. 0

2335 0
Lightning 0
protection 0
. 0

The 0
airplane B-asset
must 0
be 0
protected 0
against 0
catastrophic 0
effects 0
from 0
lightning 0
. 0

Subpart 0
E 0
â(0
Powerplant B-system
Â§ 0
23 0
. 0

2400 0
Powerplant B-system
installation 0
. 0

[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0
amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0
, 0

Dec 0
. 0

9 0
, 0

2022 0
] 0
AS 0
23 0
. 0

2405 0
Automatic 0
power 0
or 0
thrust B-system
control I-system
systems I-system
. 0

(0
a 0
) 0
For 0

the 0
purpose 0
of 0
this 0
subpart 0
, 0

the 0
airplane B-asset
powerplant B-module
installation I-module
must 0
include 0
each 0
component 0
necessary 0
for 0
propulsion 0
, 0

which 0
affects 0
propulsion 0
safety 0
, 0

or 0
provides 0
auxiliary 0
power 0
to 0
the 0
airplane B-asset
. 0

(0
b 0
) 0
Each 0
airplane B-asset
engine B-system
and 0
propeller B-system
must 0
be 0
type 0
certificated 0
, 0

except 0
for 0
engines B-system
and 0
propellers B-system
installed 0
on 0
level 0
1 0
low 0
- 0
speed 0
airplanes B-asset
, 0

which 0
may 0
be 0
approved 0
under 0
the 0
airplane B-asset
type 0
certificate 0
in 0
accordance 0
with 0
a 0
standard 0
accepted 0
by 0
the 0
Administrator 0
that 0
contains 0
airworthiness 0
criteria 0
the 0
Administrator 0
has 0
found 0
appropriate 0
and 0
applicable 0
to 0
the 0
specific 0
design 0
and 0
intended 0
use 0
of 0
the 0
engine B-system
or 0
propeller B-system
and 0
provides 0
a 0
level 0
of 0
safety 0
acceptable 0
to 0
the 0
Administrator 0
. 0

(0
c 0
) 0
The 0
applicant 0
must 0
construct 0
and 0
arrange 0
each 0
powerplant B-module

installation I-module
to 0
account 0
for 0
â(0
(0
1 0
) 0
Likely 0
operating 0
conditions 0
, 0

including 0
foreign 0
object 0
threats 0
; 0
(0
2 0
) 0
Sufficient 0
clearance 0
of 0
moving 0
parts 0
to 0
other 0
airplane 0
parts 0
and 0
their 0
surroundings 0
; 0
(0
3 0
) 0
Likely 0
hazards 0
in 0
operation 0
including 0
hazards 0
to 0
ground 0
personnel 0
; 0
and 0
(0
4 0
) 0
Vibration 0
and 0
fatigue 0
. 0

(0
d 0
) 0
Hazardous 0
accumulations 0
of 0
fluids 0
, 0

vapors 0
, 0

or 0
gases 0
must 0
be 0
isolated 0
from 0
the 0
airplane 0
and 0
personnel 0
compartments 0
, 0

and 0
be 0
safely 0
contained 0
or 0
discharged 0
. 0

(0
e 0
) 0
Powerplant B-component
components I-component
must 0
comply 0
with 0
their 0
component 0
limitations 0
and 0
installation 0
instructions 0
or 0
be 0
shown 0
not 0
to 0
create 0
a 0
hazard 0
. 0

(0
a 0
) 0
An 0
automatic 0
power 0
or 0
thrust B-system
control I-system
system I-system
intended 0
for 0
in 0
- 0
flight 0

use 0
must 0
be 0
designed 0
so 0
no 0
unsafe 0
condition 0
will 0
result 0
during 0
normal 0
operation 0
of 0
the 0
system 0
. 0

(0
b 0
) 0
Any 0
single 0
failure 0
or 0
likely 0
combination 0
of 0
failures 0
of 0
an 0
automatic 0
power 0
or 0
thrust B-system
control I-system
system I-system
must 0
not 0
prevent 0
continued 0
safe 0
flight 0
and 0
landing 0
of 0
the 0
airplane B-asset
. 0

(0
c 0
) 0
Inadvertent 0
operation 0
of 0
an 0
automatic 0
power 0
or 0
thrust B-system
control I-system
system I-system
by 0

the 0
flightcrew 0
must 0
be 0
prevented 0
, 0

or 0
if 0
not 0
prevented 0
, 0

must 0
not 0
result 0
in 0
an 0
unsafe 0
condition 0
. 0

(0
d 0
) 0
Unless 0
the 0
failure 0
of 0
an 0
automatic 0
power 0
or 0
thrust B-system
control I-system
system I-system
is 0
extremely 0
remote 0
, 0

the 0
system 0
must 0
â(□ 0
(0
1 0
) 0
Provide 0
a 0
means 0
for 0
the 0
flightcrew 0
to 0
verify 0
the 0
system 0
is 0
in 0
an 0
operating 0
condition 0
; 0

(0
2 0
) 0
Provide 0
a 0
means 0
for 0
the 0
flightcrew 0
to 0
override 0
the 0
automatic 0
function 0
; 0
and 0
(0
3 0
) 0
Prevent 0
inadvertent 0
deactivation 0
of 0
the 0
system 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2335 0
14 0
CFR 0
23 0
. 0

2405 0
(0
d 0
) 0

(0
3 0
) 0
(0
enhanced 0
display 0
) 0
page 0
21 0
of 0
31 0
Â§ 0
23 0
. 0

2410 0
Powerplant B-module
installation I-module
hazard 0
assessment 0
. 0

The 0
applicant 0
must 0
assess 0
each 0
powerplant B-module
separately 0
and 0
in 0
relation 0
to 0
other 0
airplane B-system
systems I-system
and 0
installations 0
to 0
show 0
that 0
any 0
hazard 0
resulting 0
from 0
the 0
likely 0
failure 0
of 0
any 0
powerplant B-module
system 0
, 0

component 0
, 0

or 0
accessory 0
will 0
not 0
â(0
Â§ 0
23 0

. 0

2415 0
Powerplant B-system
ice 0
protection 0
. 0

Â§ 0
23 0
. 0

2420 0
Reversing B-system
systems I-system
. 0

Each 0
reversing B-system
system I-system
must 0
be 0
designed 0
so 0
that 0
â(□ 0
Â§ 0
23 0
. 0

2425 0
Powerplant B-system
operational 0
characteristics 0
. 0

Â§ 0
23 0
. 0

2430 0
Fuel B-system
systems I-system
. 0

(0
a 0
) 0
Prevent 0
continued 0
safe 0
flight 0
and 0
landing 0
or 0
, 0

if 0
continued 0
safe 0
flight 0
and 0
landing 0
cannot 0

be 0
ensured 0
, 0

the 0
hazard 0
has 0
been 0
minimized 0
;
(0
b 0
) 0
Cause 0
serious 0
injury 0
that 0
may 0
be 0
avoided 0
;
and 0
(0
c 0
) 0
Require 0
immediate 0
action 0
by 0
any 0
crewmember 0
for 0
continued 0
operation 0
of 0
any 0
remaining 0
powerplant B-module
system 0
. 0

(0
a 0
) 0
The 0
airplane B-asset
design 0
, 0

including 0
the 0
induction 0
and 0
inlet B-system
system I-system
, 0

must 0
prevent 0
foreseeable 0
accumulation 0
of 0
ice 0
or 0

snow 0
that 0
adversely 0
affects 0
powerplant B-module
operation 0
. 0

(0
b 0
) 0
The 0
powerplant B-module
installation I-module
design 0
must 0
prevent 0
any 0
accumulation 0
of 0
ice 0
or 0
snow 0
that 0
adversely 0
affects 0
powerplant B-module
operation 0
, 0

in 0
those 0
icing 0
conditions 0
for 0
which 0
certification 0
is 0
requested 0
. 0

(0
a 0
) 0
No 0
unsafe 0
condition 0
will 0
result 0
during 0
normal 0
operation 0
of 0
the 0
system 0
; 0
and 0
(0
b 0
) 0
The 0
airplane B-asset
is 0
capable 0

of 0
continued 0
safe 0
flight 0
and 0
landing 0
after 0
any 0
single 0
failure 0
, 0

likely 0
combination 0
of 0
failures 0
, 0

or 0
malfunction 0
of 0
the 0
reversing B-system
system I-system
. 0

(0
a 0
) 0
The 0
installed 0
powerplant B-module
must 0
operate 0
without 0
any 0
hazardous 0
characteristics 0
during 0
normal 0
and 0
emergency 0
operation 0
within 0
the 0
range 0
of 0
operating 0
limitations 0
for 0
the 0
airplane B-asset
and 0
the 0
engine B-system
. 0

(0
b 0
) 0
The 0
pilot 0
must 0
have 0

the 0
capability 0
to 0
stop 0
the 0
powerplant B-module
in 0
flight 0
and 0
restart 0
the 0
powerplant B-module
within 0
an 0
established 0
operational 0
envelope 0
. 0

(0
a 0
) 0
Each 0
fuel B-system
system I-system
must 0
â(0
(0
1 0
) 0
Be 0
designed 0
and 0
arranged 0
to 0
provide 0
independence 0
between 0
multiple 0
fuel 0
storage 0
and 0
supply B-system
systems I-system
so 0
that 0
failure 0
of 0
any 0
one 0
component 0
in 0
one 0
system 0
will 0
not 0
result 0
in 0
loss 0
of 0
fuel 0
storage 0
or 0
supply 0

of 0
another 0
system 0
; 0
(0
2 0
) 0
Be 0
designed 0
and 0
arranged 0
to 0
prevent 0
ignition 0
of 0
the 0
fuel 0
within 0
the 0
system 0
by 0
direct 0
lightning 0
strikes 0
or 0
swept 0
lightning 0
strokes 0
to 0
areas 0
where 0
such 0
occurrences 0
are 0
highly 0
probable 0
, 0

or 0
by 0
corona 0
or 0
streamering 0
at 0
fuel 0
vent 0
outlets 0
; 0
(0
3 0
) 0
Provide 0
the 0
fuel 0
necessary 0
to 0
ensure 0
each 0
powerplant B-module
and 0
auxiliary B-module
power I-module
unit I-module
functions 0

properly 0
in 0
all 0
likely 0
operating 0
conditions 0
; 0
14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2410 0
14 0
CFR 0
23 0
. 0

2430 0
(0
a 0
) 0
(0
3 0
) 0
(0
enhanced 0
display 0
) 0
page 0
22 0
of 0
31 0
Â§ 0
23 0
. 0

2435 0
Powerplant B-system
induction 0
and 0
exhaust B-system

systems I-system

. 0

Â§ 0

23 0

. 0

2440 0

Powerplant B-system

fire 0

protection 0

. 0

(0

4 0

) 0

Provide 0

the 0

flightcrew 0

with 0

a 0

means 0

to 0

determine 0

the 0

total 0

useable 0

fuel 0

available 0

and 0

provide 0

uninterrupted 0

supply 0

of 0

that 0

fuel 0

when 0

the 0

system 0

is 0

correctly 0

operated 0

, 0

accounting 0

for 0

likely 0

fuel 0

fluctuations 0

; 0

(0

5 0

) 0

Provide 0

a 0

means 0

to 0

safely 0

remove 0

or 0

isolate 0

the 0

fuel 0

stored 0

in 0
the 0
system 0
from 0
the 0
airplane B-asset
; 0
(0
6 0
) 0
Be 0
designed 0
to 0
retain 0
fuel 0
under 0
all 0
likely 0
operating 0
conditions 0
and 0
minimize 0
hazards 0
to 0
the 0
occupants 0
during 0
any 0
survivable 0
emergency 0
landing 0
. 0

For 0
level 0
4 0
airplanes B-asset
, 0

failure 0
due 0
to 0
overload 0
of 0
the 0
landing B-system
system I-system
must 0
be 0
taken 0
into 0
account 0
; 0
and 0
(0
7 0
) 0
Prevent 0
hazardous 0
contamination 0
of 0
the 0
fuel 0
supplied 0

to 0
each 0
powerplant B-module
and 0
auxiliary B-module
power I-module
unit I-module
. 0

(0
b 0
) 0
Each 0
fuel B-system
storage I-system
system I-system
must 0

â(□ 0
(0
1 0
) 0
Withstand 0
the 0
loads 0
under 0
likely 0
operating 0
conditions 0
without 0
failure 0

; 0
(0
2 0
) 0
Be 0
isolated 0
from 0
personnel 0
compartments 0
and 0
protected 0
from 0
hazards 0
due 0
to 0
unintended 0
temperature 0
influences 0

; 0
(0
3 0
) 0
Be 0
designed 0
to 0
prevent 0
significant 0
loss 0
of 0
stored 0
fuel 0
from 0
any 0
vent B-system

system I-system
due 0
to 0
fuel 0
transfer 0
between 0
fuel 0
storage 0
or 0
supply B-system
systems I-system
, 0

or 0
under 0
likely 0
operating 0
conditions 0
; 0
(0
4 0
) 0
Provide 0
fuel 0
for 0
at 0
least 0
one 0
- 0
half 0
hour 0
of 0
operation 0
at 0
maximum B-parameter
continuous I-parameter
power I-parameter
or 0
thrust B-parameter
; 0
and 0
(0
5 0
) 0
Be 0
capable 0
of 0
jettisoning 0
fuel 0
safely 0
if 0
required 0
for 0
landing 0
. 0

(0
c 0
) 0
Each 0
fuel 0
storage 0
refilling 0
or 0

recharging B-system
system I-system
must 0
be 0
designed 0
to 0
â(0
(0
1 0
) 0
Prevent 0
improper 0
refilling 0
or 0
recharging 0
; 0
(0
2 0
) 0
Prevent 0
contamination 0
of 0
the 0
fuel 0
stored 0
during 0
likely 0
operating 0
conditions 0
; 0
and 0
(0
3 0
) 0
Prevent 0
the 0
occurrence 0
of 0
any 0
hazard 0
to 0
the 0
airplane B-asset
or 0
to 0
persons 0
during 0
refilling 0
or 0
recharging 0
. 0

(0
a 0
) 0
The 0
air B-system
induction I-system
system I-system
for 0
each 0
powerplant B-module
or 0
auxiliary B-module

power I-module
unit I-module
and 0
their 0
accessories 0
must 0
â□ 0
(0
1 0
) 0
Supply 0
the 0
air 0
required 0
by 0
that 0
powerplant B-module
or 0
auxiliary B-module
power I-module
unit I-module
and 0
its 0
accessories 0
under 0
likely 0
operating 0
conditions 0
;
(0
2 0
) 0
Be 0
designed 0
to 0
prevent 0
likely 0
hazards 0
in 0
the 0
event 0
of 0
fire 0
or 0
backfire 0
;
(0
3 0
) 0
Minimize 0
the 0
ingestion 0
of 0
foreign 0
matter 0
;
and 0
(0
4 0
) 0
Provide 0
an 0
alternate B-component
intake I-component

if 0
blockage 0
of 0
the 0
primary B-component
intake I-component
is 0
likely 0
. 0

(0
b 0
) 0
The 0
exhaust B-system
system I-system
, 0

including 0
exhaust B-component
heat I-component
exchangers I-component
for 0
each 0
powerplant B-module
or 0
auxiliary B-module
power I-module
unit I-module
, 0

must 0
â(0
(0
1 0
) 0
Provide 0
a 0
means 0
to 0
safely 0
discharge 0
potential 0
harmful 0
material 0
; 0
and 0
(0
2 0
) 0
Be 0
designed 0
to 0
prevent 0
likely 0
hazards 0
from 0
heat 0
, 0

corrosion 0
, 0

or 0

blockage 0
. 0

(0
a 0
) 0
A 0
powerplant B-module
, 0

auxiliary B-module
power I-module
unit I-module
, 0

or 0
combustion B-component
heater I-component
that 0
includes 0
a 0
flammable 0
fluid 0
and 0
an 0
ignition 0
source 0
for 0
that 0
fluid 0
must 0
be 0
installed 0
in 0
a 0
designated 0
fire 0
zone 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0

23 0
. 0

2430 0
(0
a 0
) 0
(0
4 0
) 0
14 0
CFR 0
23 0
. 0

2440 0
(0
a 0
) 0
(0
enhanced 0
display 0
) 0
page 0
23 0
of 0
31 0
[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
, 0

Amdt 0
. 0

23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
, 0

Dec 0
. 0

30 0
, 0

2016 0
, 0

as 0

amended 0
by 0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2022 0
- 0
1355 0
, 0

Amdt 0
. 0

23 0
- 0
65 0
, 0

87 0
FR 0
75710 0
, 0

Dec 0
. 0

9 0
, 0

2022 0
] 0
Subpart 0
F 0
â(0
Equipment 0
Â§ 0
23 0
. 0

2500 0
Airplane B-asset
level B-system
systems I-system
requirements 0
. 0

This 0
section 0
applies 0
generally 0
to 0
installed 0
equipment 0
and 0
systems 0
unless 0
a 0
section 0
of 0

this 0
part 0
imposes 0
requirements 0
for 0
a 0
specific 0
piece 0
of 0
equipment 0
, 0

system 0
, 0

or 0
systems 0
. 0

(0
b 0
) 0
Each 0
designated 0
fire 0
zone 0
must 0
provide 0
a 0
means 0
to 0
isolate 0
and 0
mitigate 0
hazards 0
to 0
the 0
airplane B-asset
in 0
the 0
event 0
of 0
fire 0
or 0
overheat 0
within 0
the 0
zone 0
. 0

(0
c 0
) 0
Each 0
component 0
, 0

line 0
, 0

fitting 0
, 0

and 0

control 0
subject 0
to 0
fire 0
conditions 0
must 0
â(0
(0
1 0
) 0
Be 0
designed 0
and 0
located 0
to 0
prevent 0
hazards 0
resulting 0
from 0
a 0
fire 0
, 0

including 0
any 0
located 0
adjacent 0
to 0
a 0
designated 0
fire 0
zone 0
that 0
may 0
be 0
affected 0
by 0
fire 0
within 0
that 0
zone 0
; 0
(0
2 0
) 0
Be 0
fire 0
- 0
resistant 0
if 0
carrying 0
flammable 0
fluid 0
, 0

gas 0
or 0
air 0
, 0

or 0
is 0
required 0
to 0

operate 0
in 0
the 0
event 0
of 0
a 0
fire 0
; 0
and 0
(0
3 0
) 0
Be 0
fireproof B-component
or 0
enclosed 0
by 0
a 0
fire B-component
proof I-component
shield I-component
if 0
storing 0
concentrated 0
flammable 0
fluids 0
. 0

(0
d 0
) 0
The 0
applicant 0
must 0
provide 0
a 0
means 0
to 0
prevent 0
hazardous 0
quantities 0
of 0
flammable 0
fluids 0
from 0
flowing 0
into 0
, 0

within 0
or 0
through 0
each 0
designated 0
fire 0
zone 0
. 0

This 0
means 0
must 0
â(0
(0
1 0

) 0
Not 0
restrict 0
flow 0
or 0
limit 0
operation 0
of 0
any 0
remaining 0
powerplant B-module
or 0
auxiliary B-module
power I-module
unit I-module
, 0

or 0
equipment 0
necessary 0
for 0
safety 0
; 0
(0
2 0
) 0
Prevent 0
inadvertent 0
operation 0
; 0
and 0
(0
3 0
) 0
Be 0
located 0
outside 0
the 0
fire 0
zone 0
unless 0
an 0
equal 0
degree 0
of 0
safety 0
is 0
provided 0
with 0
a 0
means 0
inside 0
the 0
fire 0
zone 0
. 0

(0
e 0
) 0
A 0
means 0
to 0
ensure 0

the 0
prompt 0
detection 0
of 0
fire 0
must 0
be 0
provided 0
for 0
each 0
designated 0
fire 0
zone 0
â(0
(0
1 0
) 0
On 0
a 0
multiengine 0
airplane B-asset
where 0
detection 0
will 0
mitigate 0
likely 0
hazards 0
to 0
the 0
airplane B-asset
; 0
or 0
(0
2 0
) 0
That 0
contains 0
a 0
fire B-component
extinguisher I-component
. 0

(0
f 0
) 0
A 0
means 0
to 0
extinguish 0
fire 0
within 0
a 0
fire 0
zone 0
, 0

except 0
a 0
combustion B-component
heater I-component
fire 0
zone 0
, 0

must 0
be 0
provided 0
for 0
â(0
(0
1 0
) 0
Any 0
fire 0
zone 0
located 0
outside 0
the 0
pilot 0
' 0
s 0
view 0
;
(0
2 0
) 0
Any 0
fire 0
zone 0
embedded 0
within 0
the 0
fuselage B-system
, 0

which 0
must 0
also 0
include 0
a 0
redundant 0
means 0
to 0
extinguish 0
fire 0
;
and 0
(0
3 0
) 0
Any 0
fire 0
zone 0
on 0
a 0
level 0
4 0
airplane B-asset
. 0

(0
a 0
) 0
The 0
equipment 0
and 0
systems 0
required 0

for 0
an 0
airplane B-asset
to 0
operate 0
safely 0
in 0
the 0
kinds 0
of 0
operations 0
for 0
which 0
certification 0
is 0
requested 0
(0
Day 0
VFR 0
, 0

Night 0
VFR 0
, 0

IFR 0
) 0
must 0
be 0
designed 0
and 0
installed 0
to 0
â(0
(0
1 0
) 0
Meet 0
the 0
level 0
of 0
safety 0
applicable 0
to 0
the 0
certification 0
and 0
performance 0
level 0
of 0
the 0
airplane B-asset
; 0
and 0
(0
2 0
) 0
Perform 0
their 0
intended 0
function 0
throughout 0
the 0
operating 0

and 0
environmental 0
limits 0
for 0
which 0
the 0
airplane B-asset
is 0
certificated 0
. 0

14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/ 0
27 0
/ 0
2024 0
) 0
Airworthiness 0
Standards 0
: 0
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0

2440 0
(0
b 0
) 0
14 0
CFR 0
23 0
. 0

2500 0
(0
a 0
) 0
(0
2 0
) 0
(0
enhanced 0
display 0
) 0
page 0
24 0
of 0
31 0
[0
Doc 0

. 0

No 0

. 0

FAA 0

- 0

2015 0

- 0

1621 0

, 0

Amdt 0

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23 0

- 0

64 0

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81 0

FR 0

96689 0

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Dec 0

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30 0

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2016 0

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as 0

amended 0

by 0

Doc 0

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No 0

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FAA 0

- 0

2022 0

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1355 0

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Amdt 0

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23 0

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65 0

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87 0

FR 0

75710 0

, 0

Dec 0

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9 0

, 0

2022 0

] 0

Â§ 0

23 0

. 0

2505 0

Function 0

and 0

installation 0

. 0

When 0

installed 0

, 0

each 0

item 0

of 0

equipment 0

must 0

function 0

as 0

intended 0

. 0

Â§ 0

23 0

. 0

2510 0

Equipment 0

, 0

systems 0

, 0

and 0

installations 0

. 0

For 0

any 0

airplane B-system

system I-system

or 0

equipment 0

whose 0

failure 0

or 0

abnormal 0

operation 0

has 0

not 0

been 0

specifically 0

addressed 0

by 0

another 0

requirement 0
in 0
this 0
part 0
, 0

the 0
applicant 0
must 0
design 0
and 0
install 0
each 0
system 0
and 0
equipment 0
, 0

such 0
that 0
there 0
is 0
a 0
logical 0
and 0
acceptable 0
inverse 0
relationship 0
between 0
the 0
average 0
probability 0
and 0
the 0
severity 0
of 0
failure 0
conditions 0
to 0
the 0
extent 0
that 0
:
0
Â§ 0
23 0
. 0

2515 0
Electrical 0
and 0
electronic B-system
system I-system
lightning 0
protection 0
. 0

An 0
airplane B-asset
approved 0
for 0
IFR 0
operations 0
must 0
meet 0

the 0
following 0
requirements 0
, 0

unless 0
an 0
applicant 0
shows 0
that 0
exposure 0
to 0
lightning 0
is 0
unlikely 0
: 0
Â§ 0
23 0
. 0

2520 0
High 0
- 0
intensity 0
Radiated 0
Fields 0
(0
HIRF 0
) 0
protection 0
. 0

(0
b 0
) 0
The 0
systems 0
and 0
equipment 0
not 0
covered 0
by 0
paragraph 0
(0
a 0
) 0
of 0
this 0
section 0
â(0
considered 0
separately 0
and 0
in 0
relation 0
to 0
other 0
systems 0
â(0
must 0
be 0
designed 0
and 0
installed 0

so 0
their 0
operation 0
does 0
not 0
have 0
an 0
adverse 0
effect 0
on 0
the 0
airplane B-asset
or 0
its 0
occupants 0
. 0

(0
a 0
) 0
Each 0
catastrophic 0
failure 0
condition 0
is 0
extremely 0
improbable 0
;

0
(0
b 0
) 0
Each 0
hazardous 0
failure 0
condition 0
is 0
extremely 0
remote 0
;

0
and 0
(0
c 0
) 0
Each 0
major 0
failure 0
condition 0
is 0
remote 0
. 0

(0
a 0
) 0
Each 0
electrical 0
or 0
electronic B-system
system I-system
that 0
performs 0
a 0
function 0
, 0

the 0
failure 0
of 0
which 0
would 0
prevent 0
the 0
continued 0
safe 0
flight 0
and 0
landing 0
of 0
the 0
airplane B-asset
, 0

must 0
be 0
designed 0
and 0
installed 0
such 0
that 0
â(0
(0
1 0
) 0
The 0
function 0
at 0
the 0
airplane B-asset
level 0
is 0
not 0
adversely 0
affected 0
during 0
and 0
after 0
the 0
time 0
the 0
airplane B-asset
is 0
exposed 0
to 0
lightning 0
; 0
and 0
(0
2 0
) 0
The 0
system 0
recovers 0
normal 0
operation 0
of 0
that 0
function 0
in 0

a 0
timely 0
manner 0
after 0
the 0
airplane B-asset
is 0
exposed 0
to 0
lightning 0
unless 0
the 0
system 0
' 0
s 0
recovery 0
conflicts 0
with 0
other 0
operational 0
or 0
functional 0
requirements 0
of 0
the 0
system 0
. 0

(0
b 0
) 0
Each 0
electrical 0
and 0
electronic B-system
system I-system
that 0
performs 0
a 0
function 0
, 0

the 0
failure 0
of 0
which 0
would 0
significantly 0
reduce 0
the 0
capability 0
of 0
the 0
airplane B-asset
or 0
the 0
ability 0
of 0
the 0
flightcrew 0
to 0
respond 0
to 0
an 0

adverse 0
operating 0
condition 0
, 0

must 0
be 0
designed 0
and 0
installed 0
such 0
that 0
the 0
system 0
recovers 0
normal 0
operation 0
of 0
that 0
function 0
in 0
a 0
timely 0
manner 0
after 0
the 0
airplane B-asset
is 0
exposed 0
to 0
lightning 0
. 0

(0
a 0
) 0
Each 0
electrical 0
and 0
electronic B-system
system I-system
that 0
performs 0
a 0
function 0
, 0

the 0
failure 0
of 0
which 0
would 0
prevent 0
the 0
continued 0
safe 0
flight 0
and 0
landing 0
of 0
the 0
airplane B-asset
, 0

must 0
be 0
designed 0
and 0
installed 0
such 0
that 0
â 0
(0
1 0
) 0
The 0
function 0
at 0
the 0
airplane B-asset
level 0
is 0
not 0
adversely 0
affected 0
during 0
and 0
after 0
the 0
time 0
the 0
airplane B-asset
is 0
exposed 0
to 0
the 0
HIRF 0
environment 0
;
and 0
14 0
CFR 0
Part 0
23 0
(0
up 0
to 0
date 0
as 0
of 0
6 0
/
27 0
/
2024 0
) 0
Airworthiness 0
Standards 0
:
Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
. 0
2500 0

(0
b 0
) 0
14 0
CFR 0
23 0
. 0

2520 0
(0
a 0
) 0
(0
1 0
) 0
(0
enhanced 0
display 0
) 0
page 0
25 0
of 0
31 0
[0
Doc 0
. 0

No 0
. 0

FAA 0
- 0
2015 0
- 0
1621 0
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Amdt 0
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23 0
- 0
64 0
, 0

81 0
FR 0
96689 0
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Dec 0
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30 0
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2016 0
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amended 0
by 0
Doc 0
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2525 0
System 0
power 0
generation 0
, 0

storage 0
, 0

and 0
distribution 0
. 0

The 0
power 0
generation 0
, 0

storage 0
, 0

and 0
distribution 0
for 0
any 0
system 0
must 0
be 0

designed 0
and 0
installed 0
to 0
â€ 0
Â§ 0
23 0
. 0

2530 0
External 0
and 0
cockpit 0
lighting 0
. 0

Â§ 0
23 0
. 0

2535 0
Safety 0
equipment 0
. 0

Safety 0
and 0
survival 0
equipment 0
, 0

required 0
by 0
the 0
operating 0
rules 0
of 0
this 0
chapter 0
, 0

must 0
be 0
reliable 0
, 0

readily 0
accessible 0
, 0

easily 0
identifiable 0
, 0

and 0
clearly 0
marked 0
to 0
identify 0
its 0
method 0
of 0
operation 0
. 0

(0
2 0
) 0
The 0
system 0
recovers 0
normal 0
operation 0
of 0
that 0
function 0
in 0
a 0
timely 0
manner 0
after 0
the 0
airplane B-asset
is 0
exposed 0
to 0
the 0
HIRF 0
environment 0
, 0

unless 0
the 0
system 0
' 0
s 0
recovery 0
conflicts 0
with 0
other 0
operational 0
or 0
functional 0
requirements 0
of 0
the 0
system 0
. 0

(0
b 0
) 0
For 0
airplanes B-asset
approved 0
for 0
IFR 0
operations 0
, 0

each 0
electrical 0
and 0
electronic B-system
system I-system
that 0
performs 0
a 0

function 0
, 0

the 0
failure 0
of 0
which 0
would 0
significantly 0
reduce 0
the 0
capability 0
of 0
the 0
airplane B-asset
or 0
the 0
ability 0
of 0
the 0
flightcrew 0
to 0
respond 0
to 0
an 0
adverse 0
operating 0
condition 0
, 0

must 0
be 0
designed 0
and 0
installed 0
such 0
that 0
the 0
system 0
recovers 0
normal 0
operation 0
of 0
that 0
function 0
in 0
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manner 0
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airplane B-asset
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exposed 0
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HIRF 0
environment 0
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Supply 0

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power 0
required 0
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operation 0
of 0
connected 0
loads 0
during 0
all 0
intended 0
operating 0
conditions 0
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b 0
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Ensure 0
no 0
single 0
failure 0
or 0
malfunction 0
of 0
any 0
one 0
power 0
supply 0
, 0

distribution 0
system 0
, 0

or 0
other 0
utilization 0
system 0
will 0
prevent 0
the 0
system 0
from 0
supplying 0
the 0
essential B-parameter
loads I-parameter
required 0
for 0
continued 0
safe 0
flight 0
and 0
landing 0
; 0
and 0
(0
c 0
) 0
Have 0
enough 0
capacity 0
, 0

if 0
the 0
primary 0
source 0
fails 0
, 0

to 0
supply 0
essential 0
loads 0
, 0

including 0
non 0
- 0
continuous 0
essential 0
loads 0
for 0
the 0
time 0
needed 0
to 0
complete 0
the 0
function 0
required 0
for 0
continued 0
safe 0
flight 0
and 0
landing 0
. 0

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The 0
applicant 0
must 0
design 0
and 0
install 0
all 0
lights 0
to 0
minimize 0
any 0
adverse 0
effects 0
on 0
the 0
performance 0
of 0
flightcrew 0
duties 0
. 0

(0
b 0
) 0
Any 0

position 0
and 0
anti B-component
- I-component
collision I-component
lights I-component
, 0

if 0
required 0
by 0
part 0
91 0
of 0
this 0
chapter 0
, 0

must 0
have 0
the 0
intensities 0
, 0

flash 0
rate 0
, 0

colors 0
, 0

fields 0
of 0
coverage 0
, 0

and 0
other 0
characteristics 0
to 0
provide 0
sufficient 0
time 0
for 0
another 0
aircraft B-asset
to 0
avoid 0
a 0
collision 0
. 0

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c 0
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Any 0
position B-component
lights I-component
, 0

if 0
required 0
by 0
part 0

91 0
of 0
this 0
chapter 0
, 0

must 0
include 0
a 0
red B-component
light I-component
on 0
the 0
left 0
side 0
of 0
the 0
airplane B-asset
, 0

a 0
green B-component
light I-component
on 0
the 0
right 0
side 0
of 0
the 0
airplane B-asset
, 0

spaced 0
laterally 0
as 0
far 0
apart 0
as 0
practicable 0
, 0

and 0
a 0
white B-component
light I-component
facing 0
aft 0
, 0

located 0
on 0
an 0
aft 0
portion 0
of 0
the 0
airplane B-asset
or 0
on 0
the 0
wing B-component
tips I-component
. 0

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d 0
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Any 0
taxi 0
and 0
landing B-component
lights I-component
must 0
be 0
designed 0
and 0
installed 0
so 0
they 0
provide 0
sufficient 0
light 0
for 0
night 0
operations 0
. 0

(0
e 0
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For 0
seaplanes B-asset
or 0
amphibian B-asset
airplanes I-asset
, 0

riding B-component
lights I-component
must 0
provide 0
a 0
white 0
light 0
visible 0
in 0
clear 0
atmospheric 0
conditions 0
. 0

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CFR 0
Part 0
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Airworthiness 0

Standards 0
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Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
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2520 0
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CFR 0
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2535 0
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31 0
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2540 0
Flight 0
in 0
icing 0
conditions 0
. 0

An 0
applicant 0
who 0
requests 0
certification 0
for 0
flight 0
in 0
icing 0
conditions 0
defined 0
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an 0
applicant 0
who 0
requests 0
certification 0
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conditions 0
and 0
any 0
additional 0
atmospheric 0
icing 0
conditions 0
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must 0
show 0
the 0
following 0
in 0
the 0
icing 0
conditions 0
for 0
which 0
certification 0
is 0
requested 0
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Â§ 0
23 0
. 0

2545 0
Pressurized B-system
systems I-system
elements 0
. 0

Pressurized B-system
systems I-system
must 0
withstand 0
appropriate 0
proof 0
and 0
burst 0
pressures 0
. 0

Â§ 0
23 0
. 0

2550 0
Equipment 0

containing 0
high B-component
- I-component
energy I-component
rotors I-component
. 0

Equipment 0
containing 0
high B-component
- I-component
energy I-component
rotors I-component
must 0
be 0
designed 0
or 0
installed 0
to 0
protect 0
the 0
occupants 0
and 0
airplane B-asset
from 0
uncontained 0
fragments 0
. 0

Subpart 0
G 0
â€ 0
Flightcrew 0
Interface 0
and 0
Other 0
Information 0
Â§ 0
23 0
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Flightcrew 0
interface 0
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2605 0
Installation 0
and 0
operation 0
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The 0
ice B-system
protection I-system
system I-system
provides 0
for 0
safe 0
operation 0
. 0

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b 0
) 0
The 0
airplane B-asset
design 0
must 0
provide 0
protection 0
from 0
stalling 0
when 0
the 0
autopilot 0
is 0
operating 0
. 0

(0
a 0
) 0
The 0
pilot B-module
compartment I-module
, 0

its 0
equipment 0
, 0

and 0
its 0
arrangement 0
to 0
include 0
pilot 0
view 0
, 0

must 0
allow 0
each 0
pilot 0
to 0
perform 0
his 0
or 0
her 0
duties 0
, 0

including 0
taxi 0
, 0

takeoff 0
, 0

climb 0
, 0

cruise 0
, 0

descent 0
, 0

approach 0
, 0

landing 0
, 0

and 0
perform 0
any 0
maneuvers 0
within 0
the 0
operating 0
envelope 0
of 0
the 0
airplane B-asset
, 0

without 0
excessive 0
concentration 0
, 0

skill 0
, 0

alertness 0
, 0

or 0
fatigue 0
. 0

(0
b 0
) 0
The 0
applicant 0
must 0
install 0
flight 0
, 0

navigation 0
, 0

surveillance 0
, 0

and 0
powerplant B-control
controls I-control
and 0
displays B-module
so 0
flightcrew 0
members 0
can 0
monitor 0
and 0
perform 0
defined 0
tasks 0
associated 0
with 0
the 0
intended 0
functions 0
of 0
systems 0
and 0
equipment 0
. 0

The 0
system 0
and 0
equipment 0
design 0
must 0
minimize 0
flightcrew 0
errors 0
, 0

which 0
could 0
result 0
in 0
additional 0
hazards 0
. 0

(0
c 0
) 0
For 0
level 0
4 0
airplanes B-asset
, 0

the 0
flightcrew 0
interface 0
design 0
must 0
allow 0
for 0
continued 0

safe 0
flight 0
and 0
landing 0
after 0
the 0
loss 0
of 0
vision 0
through 0
any 0
one 0
of 0
the 0
windshield B-component
panels I-component
. 0

(0
a 0
) 0
Each 0
item 0
of 0
installed 0
equipment 0
related 0
to 0
the 0
flightcrew 0
interface 0
must 0
be 0
labelled 0
, 0

if 0
applicable 0
, 0

as 0
to 0
it 0
identification 0
, 0

function 0
, 0

or 0
operating 0
limitations 0
, 0

or 0
any 0
combination 0
of 0
these 0
factors 0
. 0

(0
b 0

) 0
There 0
must 0
be 0
a 0
discernible 0
means 0
of 0
providing 0
system 0
operating 0
parameters 0
required 0
to 0
operate 0
the 0
airplane B-asset
, 0

including 0
warnings 0
, 0

cautions 0
, 0

and 0
normal 0
indications 0
to 0
the 0
responsible 0
crewmember 0
. 0

(0
c 0
) 0
Information 0
concerning 0
an 0
unsafe 0
system 0
operating 0
condition 0
must 0
be 0
provided 0
in 0
a 0
timely 0
manner 0
to 0
the 0
crewmember 0
responsible 0
for 0
taking 0
corrective 0
action 0
. 0

The 0
information 0

must 0
be 0
clear 0
enough 0
to 0
avoid 0
likely 0
crewmember 0
errors 0
. 0

14 0
CFR 0
Part 0
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Airworthiness 0
Standards 0
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Normal 0
Category 0
Airplanes B-asset
14 0
CFR 0
23 0
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2540 0
14 0
CFR 0
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2605 0
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enhanced 0
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of 0
31 0
Â§ 0
23 0
. 0

2610 0
Instrument B-component
markings I-component
, 0

control B-component
markings I-component
, 0

and 0
placards B-component
. 0

Â§ 0
23 0
. 0

2615 0
Flight 0
, 0

navigation 0
, 0

and 0
powerplant B-module
instruments I-module
. 0

Â§ 0
23 0
. 0

2620 0
Airplane B-asset
flight 0
manual 0
. 0

The 0
applicant 0
must 0
provide 0
an 0
Airplane B-asset
Flight 0
Manual 0
that 0
must 0
be 0
delivered 0
with 0
each 0
airplane B-asset
. 0

(0
a 0
) 0
Each 0
airplane B-asset
must 0
display 0
in 0
a 0
conspicuous 0
manner 0
any 0

placard 0
and 0
instrument 0
marking 0
necessary 0
for 0
operation 0
. 0

(0
b 0
) 0
The 0
design 0
must 0
clearly 0
indicate 0
the 0
function 0
of 0
each 0
cockpit B-control
control I-control
, 0

other 0
than 0
primary 0
flight B-control
controls I-control
. 0

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c 0
) 0
The 0
applicant 0
must 0
include 0
instrument 0
marking 0
and 0
placard 0
information 0
in 0
the 0
Airplane 0
Flight 0
Manual 0
. 0

(0
a 0
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Installed 0
systems 0
must 0
provide 0
the 0
flightcrew 0
member 0
who 0
sets 0
or 0

monitors 0
parameters 0
for 0
the 0
flight 0
, 0

navigation 0
, 0

and 0
powerplant B-module
, 0

the 0
information 0
necessary 0
to 0
do 0
so 0
during 0
each 0
phase 0
of 0
flight 0
. 0

This 0
information 0
must 0
â(0
(0
1 0
) 0
Be 0
presented 0
in 0
a 0
manner 0
that 0
the 0
crewmember 0
can 0
monitor 0
the 0
parameter 0
and 0
determine 0
trends 0
, 0

as 0
needed 0
, 0

to 0
operate 0
the 0
airplane B-asset
; 0
and 0
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) 0

Include 0
limitations 0
, 0

unless 0
the 0
limitation 0
cannot 0
be 0
exceeded 0
in 0
all 0
intended 0
operations 0
. 0

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b 0
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Indication B-system
systems I-system
that 0
integrate 0
the 0
display 0
of 0
flight 0
or 0
powerplant B-module
parameters 0
to 0
operate 0
the 0
airplane B-asset
or 0
are 0
required 0
by 0
the 0
operating 0
rules 0
of 0
this 0
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must 0
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Not 0
inhibit 0
the 0
primary 0
display 0
of 0
flight 0
or 0
powerplant B-module
parameters 0
needed 0
by 0
any 0
flightcrew 0
member 0

in 0
any 0
normal 0
mode 0
of 0
operation 0
; 0
and 0
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In 0
combination 0
with 0
other 0
systems 0
, 0

be 0
designed 0
and 0
installed 0
so 0
information 0
essential 0
for 0
continued 0
safe 0
flight 0
and 0
landing 0
will 0
be 0
available 0
to 0
the 0
flightcrew 0
in 0
a 0
timely 0
manner 0
after 0
any 0
single 0
failure 0
or 0
probable 0
combination 0
of 0
failures 0
. 0

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The 0
Airplane B-asset
Flight 0
Manual 0
must 0
contain 0
the 0
following 0
information 0

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Airplane B-asset
operating 0
limitations 0
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Airplane B-asset
operating 0
procedures 0
; 0
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3 0
) 0
Performance 0
information 0
; 0
(0
4 0
) 0
Loading 0
information 0
; 0
and 0
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5 0
) 0
Other 0
information 0
that 0
is 0
necessary 0
for 0
safe 0
operation 0
because 0
of 0
design 0
, 0

operating 0
, 0

or 0
handling 0
characteristics 0
. 0

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The 0
following 0
sections 0
of 0
the 0
Airplane B-asset
Flight 0
Manual 0
must 0

be 0
approved 0
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the 0
FAA 0
in 0
a 0
manner 0
specified 0
by 0
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Administrator 0
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For 0
low 0
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speed 0
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level 0
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and 0
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airplanes B-asset
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those 0
portions 0
of 0
the 0
Airplane B-asset
Flight 0
Manual 0
containing 0
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information 0
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speed 0
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airplanes B-asset
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level 0
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airplanes B-asset
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Airplane B-asset
Flight 0
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Airworthiness 0
Standards 0
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Normal 0
Category 0
Airplanes B-asset
14 0

CFR 0
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Appendix 0
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Airworthiness 0
A23 0
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General 0
A23 0
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Format 0
A23 0
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3 0
Content 0
The 0
contents 0
of 0
the 0
manual 0

or 0
manuals 0
must 0
be 0
prepared 0
in 0
the 0
English 0
language 0
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The 0
Instructions 0
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Continued 0
Airworthiness 0
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contain 0
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and 0
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appendix 0
specifies 0
requirements 0
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preparation 0
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Instructions 0
for 0
Continued 0
Airworthiness 0
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Instructions 0
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Continued 0
Airworthiness 0
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each 0
airplane B-asset
must 0
include 0
the 0
Instructions 0
for 0

Continued 0
Airworthiness 0
for 0
each 0
engine B-system
and 0
propeller B-system
(0
hereinafter 0
designated 0
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products 0
â(0
) 0
, 0

for 0
each 0
appliance 0
required 0
by 0
this 0
chapter 0
, 0

and 0
any 0
required 0
information 0
relating 0
to 0
the 0
interface 0
of 0
those 0
appliances 0
and 0
products 0
with 0
the 0
airplane B-asset
. 0

If 0
Instructions 0
for 0
Continued 0
Airworthiness 0
are 0
not 0
supplied 0
by 0
the 0
manufacturer 0
of 0
an 0
appliance 0
or 0
product 0
installed 0
in 0
the 0
airplane B-asset
, 0

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Instructions 0
for 0
Continued 0
Airworthiness 0
for 0
the 0
airplane B-asset
must 0
include 0
the 0
information 0
essential 0
to 0
the 0
continued 0
airworthiness 0
of 0
the 0
airplane B-asset
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The 0
applicant 0
must 0
submit 0
to 0
the 0
FAA 0
a 0
program 0
to 0
show 0
how 0
changes 0
to 0
the 0
Instructions 0
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Continued 0
Airworthiness 0
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applicant 0
or 0
by 0
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manufacturers 0
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products 0
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appliances 0
installed 0
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airplane B-asset
will 0
be 0
distributed 0

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Airplane B-asset
maintenance 0
manual 0
or 0
section 0
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Introduction 0

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includes 0
an 0
explanation 0
of 0
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necessary 0
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maintenance 0
or 0
preventive 0
maintenance 0
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description 0
of 0
the 0
airplane B-asset
and 0
its 0
systems 0
and 0
installations 0
including 0
its 0
engines B-system
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propellers B-system
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and 0
appliances 0
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Basic 0
control 0
and 0
operation 0
information 0
describing 0
how 0
the 0
airplane B-asset
components 0
and 0
systems 0

are 0
controlled 0
and 0
how 0
they 0
operate 0
, 0

including 0
any 0
special 0
procedures 0
and 0
limitations 0
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apply 0
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Servicing 0
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covers 0
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regarding 0
servicing 0
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required 0
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instructions 0
and 0
limitations 0
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Standards 0
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Normal 0
Category 0
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Limitations 0
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of 0
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section 0
must 0

set 0
forth 0
each 0
mandatory 0
replacement 0
time 0
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structural 0
inspection 0
interval 0
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and 0
related 0
structural 0
inspection 0
procedure 0
required 0
for 0
type 0
certification 0
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If 0
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Airworthiness 0
consist 0
of 0
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the 0
section 0
required 0
by 0
this 0
paragraph 0
must 0
be 0
included 0
in 0
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contain 0
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statement 0
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and 0
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propellers B-system
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accessories B-component
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instruments B-component
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that 0
provides 0
the 0
recommended 0
periods 0
at 0
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be 0
cleaned 0
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inspected 0
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adjusted 0
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tested 0
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and 0
lubricated 0
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degree 0

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inspection 0
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wear 0
tolerances 0
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instrument 0
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manufacturer 0
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source 0
of 0
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information 0
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exceptionally 0
high 0
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of 0
complexity 0
requiring 0
specialized 0
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or 0
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overhaul 0
periods 0
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Airworthiness 0
Limitations 0
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remedial 0
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replacing 0
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techniques 0
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loads I-parameter
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Methods 0
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balancing B-parameter
control I-parameter
surfaces I-parameter
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Length B-parameter
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length B-parameter
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BODY B-system
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ROT B-parameter
_ I-parameter
ANGLE I-parameter
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Fuselage B-system
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BOTTOM B-module
_ I-module
CONNECTOR I-module
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ROTATION B-parameter
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Orient B-module
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ANGLE I-parameter
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CargoCaseRotation B-parameter
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CargoCase B-module
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Rotation B-parameter
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CargoMass B-parameter
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Cargo B-system
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WEIGHT B-parameter
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ControlChannelAuto B-parameter
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Motor B-system
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CONTROL B-parameter
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CHANNEL I-parameter
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Motor B-system
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CONTROL B-parameter
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Motor B-system
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Motor B-system
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CHANNEL I-parameter
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Motor B-system
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Motor B-system
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CONTROL B-parameter
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FUSELAGE B-system
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OFFSET B-parameter
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Fuselage B-system
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
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sensor B-module
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OFFSET B-parameter
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LENGTH I-parameter
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DISP B-parameter
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Flange B-module
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CLOCK B-parameter
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ANGLE I-parameter

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NegPropDir B-parameter

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Propeller B-system

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Direction B-parameter

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Propeller B-system
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Propeller B-system
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Direction B-parameter
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Propeller B-system
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Direction B-parameter
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PosPropType B-parameter
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Propeller B-system
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Propeller B-system
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Propeller B-system
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component 0
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" 0
Arm B-system
_ 0
819 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
```

819 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0

```
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
```

```
_ 0
821 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
821 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
```

```

choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
BatteryController B-control
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
BatteryController B-control
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0

```

```
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Battery B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
TurnigyGraphene3000mAh4S75C 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Cargo B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
```

```
instance 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
CargoCase B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
```

```
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
1 0
" 0
, 0
```



```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
```

```
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
264 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
264 0
_ 0
2 0
" 0
```

```
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
UAV 0
_ 0
Fuselage B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
capsule 0
```

```
_ 0
fuselage B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940d 0
_ 0
para 0
_ 0
hub 0
_ 0
6 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
```

```
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE600XF 0
_ 0
530 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
```

```
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE600XF 0
_ 0
530 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor B-system
_ 0
MN4012KV480 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```

```
Motor B-system
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor B-system
_ 0
AT4130KV300 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
```

```
" 0
t 0
_ 0
motor B-system
_ 0
AT4130KV300 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor B-system
_ 0
MN4012KV480 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
```



```

component 0
_ 0
type 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Orient B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
16x7 0
" 0
} 0
, 0

{ 0

```

```
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
16x7 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
17x7E 0
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
14x14 0
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
```

```
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
14x14 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
```

```
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
17x7E 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
```

```

component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Autopilot 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Current B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0

```

```
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
```

```

GPS B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0

" 0
connections 0
" 0
: 0
[ 0
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
1 0
" 0
, 0

```



```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
```

```
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
821 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
264 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
```

```

: 0
" 0
Arm B-system
_ 0
821 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
264 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
```

```
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0
```



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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
```

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1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
, 0
```

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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
to 0
```

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_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0

```

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from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
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" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
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" 0
to 0
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conn 0
" 0
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" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
1 0
" 0

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" 0
from 0
_ 0
conn 0
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" 0
TopConnector B-component
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" 0
to 0
_ 0
ci 0
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: 0
" 0
Motor B-system
_ 0
1 0
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" 0
to 0
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conn 0
" 0
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" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
2 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component

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" 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
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" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
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" 0
from 0
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ci 0
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: 0
" 0
Flange B-module
_ 0
264 0
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conn 0
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: 0
" 0
TopConnector B-component
" 0
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to 0
_ 0
ci 0
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: 0
" 0
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Motor B-system
_ 0
4 0
" 0
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" 0
to 0
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conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

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" 0
from 0
_ 0
ci 0
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: 0
" 0
Flange B-module
_ 0
264 0
_ 0
2 0
" 0
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" 0
from 0
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conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0

```



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" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0

```

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from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0

```

```
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```

: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0

```

```
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
```

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" 0
FloorConnector3 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0

```

```
: 0
" 0
Arm B-system
_ 0
821 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
```



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" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

```

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MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
5 0
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, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
821 0
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2 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
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, 0

" 0
from 0

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_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
1 0
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" 0
to 0
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conn 0
" 0
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" 0
BaseConnection B-component
" 0
} 0
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{ 0
" 0
from 0
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ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
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, 0

" 0
from 0
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conn 0
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" 0
Side B-component
_ I-component
Connector I-component
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_ 0
2 0
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to 0
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ci 0
" 0
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" 0
Arm B-system
_ 0
819 0
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" 0
to 0
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conn 0
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" 0
BaseConnection B-component
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
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: 0
" 0
Propeller B-system
_ 0
1 0
" 0
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" 0
to 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
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CS 0
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IN 0
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" 0
from 0
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ci 0
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" 0
Motor B-system
_ 0
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from 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
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to 0
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ci 0
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Propeller B-system
_ 0
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to 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
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IN 0
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" 0
from 0
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ci 0
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" 0
Motor B-system
_ 0
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" 0
from 0
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conn 0
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" 0
Prop B-component
_ I-component
Connector I-component
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to 0
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Propeller B-system
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to 0
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conn 0
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MOTOR B-component
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CONNECTOR I-component
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from 0
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" 0
Motor B-system
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" 0
from 0
_ 0
conn 0
" 0
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" 0
Prop B-component
_ I-component
Connector I-component
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to 0
_ 0
ci 0
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" 0
Propeller B-system
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" 0
to 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component

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CS 0
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IN 0
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from 0
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ci 0
" 0
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" 0
Motor B-system
_ 0
5 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
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ci 0
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" 0
Propeller B-system
_ 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0

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ci 0
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: 0
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Motor B-system
_ 0
6 0
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" 0
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conn 0
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Prop B-component
_ I-component
Connector I-component
" 0
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Propeller B-system
_ 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
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{ 0
" 0
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```

ci 0
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: 0
" 0
Orient B-module
" 0
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from 0
_ 0
conn 0
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" 0
ORIENTCONN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
1 0
" 0
, 0

" 0
from 0

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```
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
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" 0
SideConnector B-component
" 0
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ci 0
" 0
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Arm B-system
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819 0
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conn 0
" 0
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" 0
EndConnection B-component
" 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
1 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
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" 0
from 0
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ci 0
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" 0
Flange B-module
_ 0
2 0
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from 0
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conn 0
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: 0
" 0
BottomConnector B-component
" 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
2 0
" 0
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to 0
_ 0
conn 0
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: 0
" 0
EndConnection B-component
" 0
} 0

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from 0
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ci 0
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" 0
Flange B-module
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264 0
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1 0
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from 0
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conn 0
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" 0
SideConnector B-component
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_ 0
ci 0
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: 0
" 0
Arm B-system
_ 0
821 0
_ 0
1 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```

Flange B-module

_ 0
264 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0

SideConnector B-component

" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0

Arm B-system

_ 0
821 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

EndConnection B-component

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

Motor B-system

_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0


```
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
```

```
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
```

```

from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
491 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```

```

ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0

```



```
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
263 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
```

```
264 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
264 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```

```
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```
" 0
FloorConnector4 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```



```

Sensor B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component

```

```
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
821 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
```

```
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
```

```

_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
" 0
} 0
, 0

{ 0
" 0

```

```
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
```

```
821 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
5 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
820 0
_ 0
1 0
" 0
, 0

" 0
from 0
```

```

_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
819 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

```

```

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0

```



```

ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0

```

```

2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0

```

```

_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component

```

```

_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0

```

```

: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
ORIENTCONN 0
" 0
} 0
] 0
} 0

WEIGHT B-parameter
AND 0
BALANCE B-parameter
REPORT 0
( 0
Example 0
document 0
for 0
LSA 0
applicants 0
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of 0
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03 0
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) 0
Introduction 0
This 0
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defines 0
the 0
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and I-parameter
balance I-parameter
envelope I-parameter
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the 0
ABCD 0
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the 0
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. 0

The 0
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are 0
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the 0
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checklist 0
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the 0
certification 0
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ABCD 0
- 0
CP 0
- 0
00 0
. 0

The 0
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is 0
dictated 0
by 0
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the 0
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to 0
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. 0

All 0
units 0
used 0
are 0
metric 0
(0
SI 0
units 0
) 0
except 0
for 0
airspeeds B-parameter
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CAS 0
) 0
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in 0
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not 0
stated 0
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/ I-measurement
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/ I-measurement
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kts B-measurement
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kg B-measurement
] 0
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[0
kg B-measurement
] 0
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off I-parameter
weight I-parameter
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] 0
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minimum 0
flying B-parameter
weight I-parameter
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flying B-parameter
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kg B-measurement
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kg B-measurement
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to 0
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no 0
prototype 0
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available 0
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In 0
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case 0
the 0
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the 0
empty 0
aircraft B-asset
should 0
be 0
determined 0
through 0
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. 0

It 0
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important 0
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case 0
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have 0
a 0
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, 0

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that 0
the 0
weight B-parameter
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and 0
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be 0
achieved 0
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Aircraft B-asset
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following 0
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been 0
identified 0
since 0
: 0
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they 0
are 0
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by 0
the 0
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- 0
LSA 0
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, 0

or 0
they 0
impose 0
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loads 0
or 0
flight 0
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Basic B-parameter
empty I-parameter
weight I-parameter
WBEW 0
The 0
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empty I-parameter
weight I-parameter
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to 0
be 0
determined 0
to 0
identify 0
its 0
centre B-parameter
of I-parameter
gravity I-parameter
according 0
to 0
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4 0
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2 0
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3 0
as 0
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All 0
load 0
conditions 0
determined 0
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document 0
are 0
based 0
on 0
the 0
basic 0
empty 0
weight B-parameter
of 0
the 0
aircraft B-asset
. 0

It 0
includes 0
empty 0
weight B-parameter
of 0
the 0
aircraft B-asset
and 0
the 0
unusable 0
amount 0

of 0
fuel 0
. 0

Basic 0
empty 0
weight B-parameter
has 0
been 0
determined 0
to 0
WBEW 0
= 0
366 0
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weight I-parameter
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include 0
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equipment 0
for 0
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intended 0
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example 0
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Basic B-parameter
empty I-parameter
weight I-parameter
(0
366 0
kg B-measurement
) 0
vs 0
maximum 0
empty B-parameter
weight I-parameter
WMEW 0
(0
400kg 0
) 0
According 0
to 0
4 0
. 0

2 0
. 0

1 0

of 0
, 0

the 0
minimum 0
useful B-parameter
load I-parameter
should 0
be 0
200kg 0
consisting 0
of 0
172Kg 0
= 0
both 0
seats B-system
occupied 0
with 0
persons 0
of 0
86kg 0
each 0
(0
4 0
. 0

2 0
. 0

1 0
. 0

1 0
) 0
28kg 0
= 0
fuel 0
for 0
1 0
hour B-measurement
flight 0
at 0
as 0
determined 0
by 0
(0
4 0
. 0

2 0
. 0

1 0
. 0

2 0
) 0
According 0
to 0
3 0
. 0

1 0
. 0

2 0
the 0
maximum 0
empty B-parameter
weight I-parameter
of 0
the 0
aeroplane B-asset
shall 0
be 0
equal 0
to 0
: 0
. 0

The 0
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complies 0
with 0
its 0
Basic B-parameter
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weight I-parameter
including 0
unusable 0
fuel 0
: 0
. 0

Minimum 0
flying B-parameter
weight I-parameter
Wmin 0
(0
421kg 0
) 0
The 0
minimum 0
flying B-parameter
weight I-parameter
needs 0
to 0
be 0
determined 0
by 0
requirement 0
4 0
. 0

2 0
. 0

2 0
and 0
is 0
a 0
design B-parameter
load I-parameter
case 0
leading 0
to 0
highest 0
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factors 0
during 0
gust 0
penetration 0
. 0

It 0
assumes 0
only 0
a 0
pilot 0
of 0
weight B-parameter
of 0
55 0
kg B-measurement
. 0

Minimum 0
full B-parameter
fuel I-parameter
flying I-parameter
weight I-parameter
WminFF 0
(0
495kg 0
) 0
The 0
minimum 0
flying B-parameter
weight I-parameter
with 0
full 0
fuel 0
is 0
a 0
design B-parameter
load I-parameter
case 0
imposing 0
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load B-parameter
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on 0
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fuel B-component
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This 0
is 0
critical 0
for 0
the 0
fuel B-component
tank I-component
design 0
and 0
it 0
can 0
be 0
critical 0
also 0
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the 0
wing B-system
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is 0
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pressure I-parameter
) 0
. 0

Maximum 0
zero B-parameter
wing I-parameter
fuel I-parameter
weight I-parameter
WZWF 0
(0

600kg 0
) 0
The 0
maximum 0
zero B-parameter
wing I-parameter
fuel I-parameter
weight I-parameter
needs 0
to 0
be 0
determined 0
by 0
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5 0
. 0

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1 0
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3 0
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a 0
design B-parameter
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the 0
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due 0
to 0
lowest 0
inertia 0
discharge 0
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wing B-system
structure 0
. 0

In 0
this 0
aeroplane B-asset
this 0
weight B-parameter
equals 0
the 0
Maximum 0
Take B-parameter
- I-parameter
off I-parameter
weight I-parameter
. 0

Maximum 0
take B-parameter
- I-parameter
off I-parameter
weight I-parameter

WMTOW 0
(0
600kg 0
) 0
The 0
total 0
aircraft B-asset
weight B-parameter
must 0
not 0
exceed 0
600kg 0
regardless 0
whether 0
the 0
aircraft B-asset
is 0
on 0
ground 0
or 0
in 0
flight 0
. 0

The 0
gross 0
weight B-parameter
of 0
the 0
aeroplane B-asset
shall 0
not 0
exceed 0
WMTOW 0
= 0
600kg 0
. 0

The 0
maximum 0
landing B-parameter
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equals 0
the 0
maximum 0
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The 0
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flight 0
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respect 0
to 0
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plane 0
is 0
most 0
forward 0
0 0
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25m 0
(0
required 0
by 0
4 0
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2 0
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3 0
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most 0

rearward 0
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39m 0
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required 0
by 0
4 0
. 0

2 0
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3 0
) 0
Limitations 0
on 0
ground 0
The 0
most 0
rearward 0
centre B-parameter
of I-parameter
gravity I-parameter
with 0
the 0
plane 0
on 0
ground 0
must 0
not 0
exceed 0
(0
with 0
respect 0
to 0
datum 0
plane 0
) 0
0 0
. 0

46m 0
to 0
prevent 0
the 0
aircraft B-asset
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flipping 0
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tail 0
although 0
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more 0
than 0
0 0
. 0

41m 0
might 0
be 0
reached 0

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the 0
most 0
critical 0
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To 0
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Length B-parameter
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Length B-parameter
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Length B-parameter
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_ 0
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parameter 0
_ 0
name 0
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: 0
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BODY B-system
_ 0
ROT B-parameter
_ I-parameter
ANGLE I-parameter
" 0
, 0

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value 0
" 0
: 0
" 0
30 0
. 0

0 0
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" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
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: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0

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component 0
_ 0
property 0
" 0
: 0
" 0
BOTTOM B-module
_ I-module
CONNECTOR I-module
_ 0
ROTATION B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
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Z B-parameter
_ I-parameter
ANGLE I-parameter
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} 0
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parameter 0
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name 0
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CargoCaseRotation B-parameter
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value 0
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component 0
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properties 0
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component 0
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CargoCase B-module
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component 0
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property 0
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Rotation B-parameter
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parameter 0
_ 0
name 0
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CargoMass B-parameter
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value 0
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component 0
_ 0
properties 0
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component 0
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name 0
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Cargo B-system
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" 0
component 0
_ 0
property 0
" 0
: 0
" 0
WEIGHT B-parameter
" 0
} 0
] 0
} 0
, 0

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" 0
parameter 0
_ 0
name 0
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Flange B-module
_ 0
16 0
_ 0
2 0
_ 0
CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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, 0

" 0
value 0
" 0
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: 0
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360 0
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" 0
component 0
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properties 0
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Flange B-module
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component 0
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property 0
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SIDE B-parameter
_ I-parameter
ANGLE I-parameter
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parameter 0
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name 0
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NegPropDir B-parameter
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value 0
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component 0
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properties 0
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component 0
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Propeller B-system
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property 0
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Direction B-parameter
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
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NegPropType B-parameter
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Propeller B-system
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Propeller B-system
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Propeller B-system
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property 0
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Prop 0
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type 0
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parameter 0
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PosPropDir B-parameter
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component 0
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properties 0
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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" 0
Direction B-parameter
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
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" 0
parameter 0
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name 0
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PosPropType B-parameter
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value 0
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1 0
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component 0
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properties 0
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Propeller B-system
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component 0
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property 0
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Prop 0
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type 0
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{ 0
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Prop 0
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type 0
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Prop 0
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type 0
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} 0
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" 0
components 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
```

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1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
2 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
```

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" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
```

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_ 0
2 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
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" 0
component 0
_ 0
choice 0
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03940D 0
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para 0
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tube 0
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} 0
, 0

{ 0
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component 0
_ 0
instance 0
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: 0
" 0
Arm B-system
_ 0
43 0
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
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" 0
component 0
_ 0
choice 0
" 0
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: 0
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03940D 0
_ 0
para 0
_ 0
tube 0
" 0
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{ 0
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component 0
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instance 0
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Arm B-system
_ 0
43 0
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2 0
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" 0
component 0
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type 0
" 0
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" 0
Tube 0
" 0
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" 0
component 0
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choice 0
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03940D 0
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para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
BatteryController B-control
_ 0
```

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33 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
BatteryController B-control
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
BatteryController B-control
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Battery B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
TurnigyGraphene1300mAh4S75C 0
" 0
} 0
```

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, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Cargo B-system
" 0
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component 0
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type 0
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" 0
Cargo B-system
" 0
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" 0
component 0
_ 0
choice 0
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: 0
" 0
Cargo B-system
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} 0
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{ 0
" 0
component 0
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instance 0
" 0
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" 0
CargoCase B-module
" 0
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" 0
component 0
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type 0
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: 0
" 0
CargoCase B-module
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" 0
component 0
_ 0
choice 0
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CargoCase B-module
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} 0
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component 0
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instance 0
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Flange B-module
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component 0
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type 0
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Flange B-module
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component 0
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choice 0
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0394 0
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para 0
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flange B-module
" 0
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{ 0
" 0
component 0
_ 0
instance 0
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Flange B-module
_ 0
15 0
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1 0
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" 0
component 0
_ 0
type 0
" 0
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Flange B-module
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" 0
component 0
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choice 0
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0394 0
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para 0
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flange B-module
" 0
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component 0
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instance 0
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" 0
Flange B-module
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15 0
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component 0
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type 0
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" 0
Flange B-module
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" 0
component 0
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choice 0
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" 0
0394 0
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para 0
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flange B-module
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component 0
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instance 0
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Flange B-module
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16 0
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component 0
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type 0
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Flange B-module
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component 0
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choice 0
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0394 0
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para 0
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flange B-module
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component 0
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instance 0
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Flange B-module
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16 0
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" 0
component 0
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type 0
" 0
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Flange B-module
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" 0
component 0
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choice 0
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0394 0
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para 0
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flange B-module
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component 0
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instance 0
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" 0
Flange B-module
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" 0
component 0
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type 0
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" 0
Flange B-module
" 0
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" 0
component 0
_ 0
choice 0
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" 0
0394 0
_ 0
para 0
```

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_ 0
flange B-module
" 0
} 0
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{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
UAV 0
_ 0
Fuselage B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
capsule 0
_ 0
fuselage B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
```

```
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394od 0
_ 0
para 0
_ 0
hub 0
_ 0
6 0
" 0
} 0
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{ 0
" 0
component 0
_ 0
instance 0
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: 0
" 0
Motor B-system
_ 0
1 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
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" 0
component 0
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choice 0
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t 0
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```

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motor 0
_ 0
U7 0
_ 0
V2 0
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0KV490 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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U7 0
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V2 0
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0KV490 0
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component 0
_ 0
instance 0
" 0
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: 0
" 0
Motor B-system
_ 0
3 0
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" 0
component 0
_ 0
type 0
" 0
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" 0
Motor B-system
" 0
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" 0
component 0
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choice 0
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t 0
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motor B-system
_ 0
MN4010KV370 0
" 0
} 0
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component 0
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instance 0
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Motor B-system
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4 0
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" 0
component 0
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type 0
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Motor B-system
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" 0
component 0
_ 0
choice 0
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t 0
_ 0
motor B-system
_ 0
AT4130KV300 0
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component 0
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instance 0
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Motor B-system
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component 0
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type 0
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Motor B-system
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motor B-system
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AT4130KV300 0
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component 0
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instance 0
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" 0
Motor B-system
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component 0
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Motor B-system
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component 0
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choice 0
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motor B-system
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MN4010KV370 0
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component 0
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Orient B-module
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component 0
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type 0
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Orient B-module
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" 0
component 0
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choice 0
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Orient B-module
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} 0
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component 0
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instance 0
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Propeller B-system
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component 0
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type 0
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Propeller B-system
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component 0
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choice 0
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" 0
apc 0
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propellers B-system
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17x10E 0
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component 0
_ 0
instance 0
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" 0
Propeller B-system
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2 0
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component 0
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type 0
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" 0
Propeller B-system

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component 0
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choice 0
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propellers B-system
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17x10E 0
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" 0
component 0
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instance 0
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" 0
Propeller B-system
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component 0
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type 0
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" 0
Propeller B-system
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component 0
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apc 0
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propellers B-system
_ 0
15x5 0
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5MR 0
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{ 0
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component 0
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instance 0
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Propeller B-system
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component 0
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type 0
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Propeller B-system
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component 0
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propellers B-system
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14x14N 0
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component 0
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instance 0
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" 0
Propeller B-system
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5 0
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" 0
component 0
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type 0
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Propeller B-system
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" 0
component 0
_ 0
choice 0
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apc 0
_ 0
propellers B-system
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14x14N 0
" 0
} 0
, 0
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{ 0
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component 0
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instance 0
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Propeller B-system
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6 0
" 0
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" 0
component 0
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type 0
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Propeller B-system
" 0
, 0
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" 0
component 0
_ 0
choice 0
" 0
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" 0
apc 0
_ 0
propellers B-system
_ 0
15x5 0
_ 0
5MR 0
" 0
} 0
, 0
```

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{ 0
" 0
component 0
_ 0
instance 0
```

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" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
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" 0
component 0
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type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
" 0
} 0
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{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
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component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
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component 0
_ 0
choice 0
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: 0
" 0
```

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Autopilot 0
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} 0
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{ 0
" 0
component 0
_ 0
instance 0
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: 0
" 0
Sensor B-module
_ 0
3 0
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" 0
component 0
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type 0
" 0
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" 0
Sensor B-module
" 0
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" 0
component 0
_ 0
choice 0
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Current 0
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} 0
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{ 0
" 0
component 0
_ 0
instance 0
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: 0
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Sensor B-module
_ 0
4 0
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" 0
component 0
_ 0
type 0
" 0
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" 0
Sensor B-module
```



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" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0
```

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{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

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" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
GPS B-module
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
```

```
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0

" 0
connections 0
" 0
: 0
[ 0
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
```

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" 0
Flange B-module
_ 0
15 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
2 0
" 0
, 0

" 0

```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
```

```

_ 0
43 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0

```

```

: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0

```

```
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```



```
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
```

```
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
```

```
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
```

```
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```

" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0

```

```
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
```

```
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0
```



```

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component

```

```

Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
```

```
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
```

```
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
```

```
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
```



```

to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

```

BaseConnection B-component

" 0
} 0
, 0

{ 0
" 0
from 0

_ 0
ci 0
" 0
: 0
" 0

MainHub B-module

_ 0
1 0
" 0
, 0

" 0
from 0
_ 0

conn 0
" 0
: 0
" 0

Side B-component

_ I-component

Connector I-component

_ 0
5 0
" 0
, 0

" 0
to 0
_ 0

ci 0
" 0
: 0
" 0

Arm B-system

_ 0
43 0
_ 0
2 0

" 0
, 0

" 0
to 0
_ 0

conn 0
" 0
: 0
" 0

BaseConnection B-component

" 0
} 0
, 0

{ 0
" 0
from 0

```

_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0

```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
```

```

: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0

```

```
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
```

```

" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component

```

CONNECTOR I-component

_ 0

CS 0

_ 0

IN 0

" 0

} 0

, 0

{ 0

" 0

from 0

_ 0

ci 0

" 0

: 0

" 0

Motor B-system

_ 0

2 0

" 0

, 0

" 0

from 0

_ 0

conn 0

" 0

: 0

" 0

Prop B-component

_ I-component

Connector I-component

" 0

, 0

" 0

to 0

_ 0

ci 0

" 0

: 0

" 0

Propeller B-system

_ 0

2 0

" 0

, 0

" 0

to 0

_ 0

conn 0

" 0

: 0

" 0

MOTOR B-component

_ I-component

CONNECTOR I-component

_ 0

CS 0

_ 0

IN 0

" 0


```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0

```

```

_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system

```

```

_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0

```

```

from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
ORIENTCONN 0
" 0

```

```

, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system

```

```

_ 0
41 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0

```

```

conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0

```

```

" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0

```



```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
```

```
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
```

```
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
```

```

MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
```

```
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
```

```
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
33 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
```

```

conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system

```



```

_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0

```

```

Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0

```

```

" 0
: 0
" 0
Flange B-module
_ 0
15 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
1 0
" 0
, 0

```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
16 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module

```

```
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
```

Connector I-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

Fuselage B-system

_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0

" 0
: 0
" 0

BottomConnector B-component

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

Sensor B-module

_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0

" 0
: 0
" 0

SensorConnector B-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

Fuselage B-system

_ 0
1 0

```
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
} 0
, 0
```



```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
```

```
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0

```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
5 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0

```

```
" 0
: 0
" 0
Arm B-system
_ 0
43 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
42 0
_ 0
2 0
```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
```

```
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
41 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
```



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_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
```

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to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

```

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Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

```

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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
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" 0
from 0
_ 0
conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
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: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
```

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" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
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: 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
```

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" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0

```

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conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
```

Connector I-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

Orient B-module

" 0
, 0

" 0
to 0
_ 0
conn 0

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: 0
" 0

ORIENTCONN 0

" 0
} 0
] 0
} 0

ELECTRICAL B-system

SYSTEM I-system

DESCRIPTION 0

AND 0

ELECTRICAL B-parameter

LOAD I-parameter

ANALYSIS 0

(0

Example 0

document 0

for 0

LSA 0

applicants 0

$\hat{a}_{\square}$ 0

v1 0

of 0

17 0

. 0

02 0

. 0

16 0

) 0

Introduction 0

This 0

document 0

describes 0

the 0

electrical B-system

system I-system

and 0

provides 0

the 0

electrical B-parameter

load I-parameter

analysis 0
(0
ELA 0
) 0
of 0
the 0
ABCD 0
aircraft B-asset
and 0
demonstrates 0
compliance 0
to 0
the 0
requirements 0
as 0
defined 0
in 0
the 0
certification 0
basis 0
and 0
in 0
the 0
certification 0
programme 0
(0
Ref 0
. 0

1 0
) 0
. 0

This 0
ELA 0
is 0
based 0
on 0
ASTM 0
std 0
. 0

F2490 0
- 0
05 0
. 0

(0
Note 0
: 0
This 0
ASTM 0
standard 0
is 0
not 0
required 0
by 0
the 0
CS 0
- 0
LSA 0
, 0

although 0

it 0
gives 0
good 0
guidelines 0
to 0
prepare 0
that 0
document 0
) 0
. 0

The 0
aim 0
of 0
ELA 0
is 0
to 0
demonstrate 0
that 0
the 0
capacity 0
of 0
the 0
electrical B-system
system I-system
of 0
the 0
ABCD 0
Airplane B-asset
is 0
sufficient 0
to 0
support 0
the 0
expected 0
electrical B-parameter
loads I-parameter
in 0
all 0
foreseeable 0
conditions 0
. 0

To 0
do 0
this 0
, 0

all 0
the 0
electrical B-parameter
loads I-parameter
(0
average 0
and 0
maximum 0
) 0
are 0
taken 0
into 0
account 0
. 0

The 0

analysis 0
accounts 0
for 0
operations 0
in 0
normal 0
, 0

abnormal 0
and 0
emergency 0
conditions 0
. 0

This 0
document 0
should 0
be 0
maintained 0
throughout 0
the 0
lifetime 0
of 0
the 0
aircraft B-asset
type 0
and 0
updated 0
in 0
case 0
of 0
changes 0
to 0
the 0
electrical B-system
system I-system
. 0

References 0
Certification 0
Programme 0
ABCD 0
- 0
CP 0
- 0
00 0
FAA 0
Advisory 0
Curricular 0
, 0

AC43 0
. 0

13 0
ASTM 0
F2490 0
- 0
05 0
Abbreviations 0
used 0
in 0
this 0
document 0

AC B-parameter
â(0
Alternating B-parameter
Current I-parameter
Ah B-measurement
â(0
Ampere B-parameter
- I-parameter
hour I-parameter
CB B-component
â(0
Circuit B-component
Breaker I-component
COM B-component
â(0
Communications B-component
Equipment I-component
(I-component
Radio I-component
) I-component
DC B-parameter
â(0
Direct B-parameter
Current I-parameter
EFIS B-system
â(0
Electronic B-system
Flight I-system
Information I-system
System I-system
ELA 0
â(0
Electrical B-parameter
Load I-parameter
Analysis 0
GPS 0
â(0
Equipment B-system
using I-system
Global I-system
Positioning I-system
System I-system
NAV 0
â(0
Navigation B-component
equipment I-component
RPM B-measurement
â(0
Revolutions 0
per 0
minute B-measurement
VHF 0
â(0
Very 0
High 0
Frequency 0
(0
in 0
this 0
case 0
, 0

VHF 0
COM 0

equipment 0
) 0
List 0
of 0
requirements 0
(0
NOTE 0
: 0
at 0
the 0
time 0
of 0
issue 0
of 0
this 0
template 0
, 0

the 0
CS 0
- 0
LSA 0
amdt 0
1 0
is 0
in 0
place 0
which 0
includes 0
the 0
ASTM 0
F2245 0
- 0
12d 0
. 0

If 0
later 0
amendments 0
of 0
the 0
CS 0
- 0
LSA 0
or 0
ASTM 0
are 0
in 0
place 0
, 0

they 0
should 0
be 0
considered 0
. 0

The 0
structure 0
of 0
the 0
document 0
remains 0
the 0

same 0
, 0

but 0
the 0
requirements 0
defined 0
in 0
the 0
certification 0
basis 0
agreed 0
with 0
the 0
Agency 0
shall 0
be 0
considered 0
) 0
. 0

Electrical B-system
System I-system
General 0
Description 0
The 0
primary 0
DC B-parameter
electrical I-parameter
source I-parameter
is 0
an 0
alternator B-module
with 0
14V 0
DC B-parameter
output 0
, 0

rated 0
at 0
40 0
Amperes B-measurement
at 0
2500 0
RPM B-measurement
of 0
propeller B-parameter
speed I-parameter
. 0

During 0
normal 0
conditions 0
it 0
recharges 0
the 0
battery B-module
. 0

The 0
alternator B-module
starts 0
to 0

provide 0
voltage B-parameter
output I-parameter
above 0
1200 0
RPM B-measurement
. 0

The 0
alternator B-module
and 0
the 0
battery B-module
are 0
connected 0
to 0
the 0
electrical B-component
bus I-component
in 0
order 0
to 0
energize 0
the 0
electrical B-system
system I-system
. 0

Secondary 0
DC B-component
power I-component
is 0
provided 0
by 0
a 0
lead 0
type 0
battery B-module
which 0
provides 0
the 0
energy 0
necessary 0
for 0
feeding 0
the 0
essential 0
electrical B-parameter
loads I-parameter
in 0
the 0
event 0
of 0
the 0
alternator B-module
failure 0
. 0

The 0
battery B-module
also 0
provides 0
electrical 0
energy 0

for 0
engine 0
start 0
. 0

For 0
ground 0
starting 0
an 0
external B-module
power I-module
socket I-module
is 0
provided 0
. 0

Each 0
electrical B-component
supply I-component
is 0
connected 0
to 0
a 0
circuit B-component
breaker I-component
. 0

All 0
the 0
electric B-component
cables I-component
installed 0
to 0
the 0
instrument B-system
panel I-system
comply 0
with 0
the 0
MIL 0
- 0
C 0
- 0
27500 0
standards 0
. 0

(0
NOTE 0
: 0
For 0
LSA 0
aircraft 0
, 0

automotive 0
industry 0
cables 0
, 0

e 0
. 0

g 0

. 0

wiring 0
conforms 0
SAE 0
AS 0
22759 0
/ 0
186 0
standards 0
are 0
also 0
acceptable 0
. 0

Cable 0
sizing 0
also 0
could 0
be 0
classified 0
by 0
AWG 0
numbers 0
. 0

) 0
Some 0
aircraft B-system
systems I-system
(0
e 0
. 0

g 0
. 0

avionics 0
) 0
have 0
a 0
separate 0
master B-control
switch I-control
. 0

The 0
architecture 0
of 0
the 0
Electrical B-system
system I-system
, 0

sizing 0
of 0
cables 0
and 0
fuses 0
is 0
shown 0
in 0
Figure 0
1 0

. 0

For 0
sizing 0
of 0
cables 0
and 0
fuses 0
of 0
the 0
avionics B-system
subsystem I-system
see 0
Table 0
1 0
. 0

These 0
have 0
been 0
sized 0
according 0
to 0
[0
2 0
] 0
. 0

Figure 0
1 0
â(□ 0
Electrical 0
power 0
schematic 0
diagram 0
Table 0
1 0
â(□ 0
Avionics B-component
subsystem I-component
cables I-component
and 0
CB 0
/ 0
Fuses 0
sizing 0
Load 0
Analysis 0
Electrical B-component
power I-component
sources I-component
Following 0
table 0
contains 0
a 0
summary 0
about 0
all 0
the 0
electrical B-component
power I-component
sources I-component
. 0

Table 0
2 0
 $\hat{\alpha}$ 0
Electrical B-component
power I-component
sources I-component
Analysis 0
The 0
list 0
of 0
the 0
electrical B-parameter
consumptions I-parameter
can 0
be 0
found 0
in 0
the 0
table 0
below 0
. 0

The 0
electrical B-parameter
current I-parameter
rates I-parameter
below 0
are 0
taken 0
from 0
the 0
corresponding 0
data 0
sheets 0
. 0

Table 0
3 0
 $\hat{\alpha}$ 0
Load 0
analysis 0
The 0
maximum 0
electrical B-parameter
power I-parameter
needed 0
for 0
all 0
the 0
equipment 0
is 0
20 0
. 0

1 0
Amperes B-measurement
and 0
is 0
below 0
the 0
continuous 0
rating 0
of 0
the 0

alternator B-module
. 0

In 0
case 0
of 0
generator 0
failure 0
, 0

the 0
instruments 0
could 0
run 0
on 0
battery B-module
. 0

To 0
provide 0
backup B-component
power I-component
for 0
at 0
least 0
30 0
minutes B-measurement
, 0

the 0
required 0
minimum 0
battery B-parameter
capacity I-parameter
is 0
10 0
. 0

05 0
Ah B-measurement
. 0

The 0
battery B-parameter
capacity I-parameter
is 0
15 0
Ah B-measurement
, 0

considering 0
the 0
aging 0
of 0
the 0
battery B-module
. 0

Emergency 0
conditions 0
assessment 0
The 0
capacity 0
of 0

the 0
15 0
Ah B-measurement
battery B-module
is 0
assumed 0
conservatively 0
75 0
% 0
of 0
the 0
full 0
capacity 0
iaaw 0
. 0

paragraph 0
6 0
. 0

5 0
. 0

8 0
. 0

1 0
of 0
ASTM 0
F2490 0
- 0
05 0
[0
3 0
] 0
. 0

75 0
% 0
of 0
the 0
15Ah 0
capacity 0
is 0
11 0
. 0

25 0
Ah B-measurement
. 0

It 0
means 0
675 0
A B-measurement
- I-measurement
min I-measurement
(0
Ampere B-measurement
- I-measurement
minutes I-measurement
. 0
) 0

With 0

20 0

. 0

1 0

A B-measurement

electric 0

demand 0

, 0

(0

675 0

/ 0

20 0

. 0

1 0

= 0

33 0

. 0

58 0

) 0

it 0

means 0

33 0

. 0

58 0

minutes B-measurement

continuous 0

operation 0

(0

which 0

is 0

above 0

30 0

minutes B-measurement

) 0

without 0

load 0

shed 0

. 0

The 0

calculation 0

above 0

is 0

conservative 0

since 0

the 0

flap B-component

motor I-component

and 0

the 0

electrical B-component

fuel I-component

pump I-component

are 0

not 0

operated 0

continuously 0

, 0

therefore 0
the 0
real 0
capacity 0
could 0
be 0
a 0
bit 0
longer 0
. 0

NOTE 0
: 0
Not 0
all 0
the 0
equipment 0
loads 0
should 0
be 0
calculated 0
for 0
the 0
emergency 0
conditions 0
assessment 0
. 0

Compliance 0
Statements 0
Compliance 0
statements 0
are 0
shown 0
below 0
: 0

{ 0
" 0
extra 0
" 0
: 0
{ 0
} 0
, 0

" 0
name 0
" 0
: 0
" 0
design 0
_ 0
10269 0
_ 0
827464835bf0466791434cdddd1a9c09 0
_ 0
s 0
" 0
, 0

" 0
parameters 0
" 0

```
: 0
[ 0
{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
Length B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
473 0
. 0

7242484080575 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
, 0
```



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{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
```

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" 0
Arm B-system
_ 0
1423 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
" 0
, 0
```

```
" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
] 0
, 0
```

```
" 0
optimization 0
" 0
: 0
" 0
arm B-system
_ 0
length B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
BODY B-system
_ 0
ROT B-parameter
_ I-parameter
ANGLE I-parameter
" 0
, 0
```

```
" 0
value 0
" 0
: 0
" 0
0 0
. 0
```

```
0 0
" 0
, 0
```

```
" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
```

```

_ 0
name 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
BOTTOM B-module
_ I-module
CONNECTOR I-module
_ 0
ROTATION B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Z B-parameter
_ I-parameter
ANGLE I-parameter
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
CargoCaseRotation B-parameter

```

```
" 0
, 0

" 0
value 0
" 0
: 0
" 0
360 0
. 0

0 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Rotation B-parameter
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
CargoMass B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
```

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" 0
0 0
. 0

5 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
WEIGHT B-parameter
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
ControlChannelAuto B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
- 0
1 0
" 0
, 0

" 0
```

```
component 0
_ 0
properties 0
" 0
: 0
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" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
SIDE B-parameter
_ I-parameter
ANGLE I-parameter
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
```

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_ 0
5 0
_ 0
CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
360 0
. 0

0 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
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: 0
" 0
Flange B-module
_ 0
489 0
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
SIDE B-parameter
_ I-parameter
ANGLE I-parameter
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
```

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name 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
_ 0
CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
" 0
, 0

" 0
value 0
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360 0
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0 0
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" 0
component 0
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properties 0
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component 0
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name 0
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" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
property 0
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: 0
" 0
SIDE B-parameter
_ I-parameter
ANGLE I-parameter
" 0
} 0
] 0

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} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
NegPropDir B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
- 0
1 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Direction B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
```



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: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Direction B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Direction B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
property 0
```

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: 0
" 0
Direction B-parameter
" 0
} 0
] 0
} 0
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{ 0
" 0
parameter 0
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name 0
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" 0
NegPropType B-parameter
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value 0
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" 0
component 0
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properties 0
" 0
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{ 0
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component 0
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name 0
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" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
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} 0
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{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
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" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
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_ 0
name 0
" 0
: 0
" 0
PosPropDir B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
1 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
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" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
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" 0
component 0
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property 0
" 0
: 0
" 0
Direction B-parameter
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0
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" 0
component 0
_ 0
property 0
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: 0
" 0
Direction B-parameter
" 0
} 0
] 0
} 0
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{ 0
" 0
parameter 0
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name 0
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" 0
PosPropType B-parameter
" 0
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" 0
value 0
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" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
```

```
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
] 0
} 0
] 0
```

```
, 0

" 0
components 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
2 0
" 0
```

```
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
```



```
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
5 0
```

```
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
```

```

03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
BatteryController B-control
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
BatteryController B-control
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
component 0

```

```
_ 0
type 0
" 0
: 0
" 0
Battery B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
TurnigyGraphene1600mAh4S75CSquare 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Cargo B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```

```

CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
CargoCase B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0

```

```
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
3 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
```

```
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
```



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, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
UAV 0
_ 0
Fuselage B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
capsule 0
```

```
_ 0
fuselage B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394od 0
_ 0
para 0
_ 0
hub 0
_ 0
6 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
```

```
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
```

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: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
```

```
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
```

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, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
295 0
_ 0
G3 0
" 0
```

```

} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Orient B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0

```

```
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
13x4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
13x4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```


Propeller B-system

_ 0

3 0

" 0

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" 0

component 0

_ 0

type 0

" 0

: 0

" 0

Propeller B-system

" 0

, 0

" 0

component 0

_ 0

choice 0

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" 0

apc 0

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propellers B-system

_ 0

13x4 0

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} 0

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" 0

component 0

_ 0

instance 0

" 0

: 0

" 0

Propeller B-system

_ 0

4 0

" 0

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" 0

component 0

_ 0

type 0

" 0

: 0

" 0

Propeller B-system

" 0

, 0

" 0

component 0

_ 0

choice 0

" 0

: 0

```
" 0
apc 0
_ 0
propellers B-system
_ 0
13x4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
13x4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0
```

```

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
13x4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
" 0
} 0
, 0

```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Autopilot 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
```

```
component 0
_ 0
choice 0
" 0
: 0
" 0
Current B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0
```

```
" 0
component 0
```

```

_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
GPS B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0

" 0
connections 0
" 0
: 0
[ 0

```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
```

```
1423 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```



```
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
5 0
" 0
```

```
, 0
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
```

```
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
```

BatteryController B-control

_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0

MotorPower B-module

" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0

Motor B-system

_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

MotorPower B-module

" 0
}
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

BatteryController B-control

_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0

```
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```



```
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```

" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0

```

```
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0
```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0

```

```
489 0
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```

```
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```



```

" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0

```

```
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
```

```
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
```

```
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
```

```
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
```

```
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
6 0
```

```
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
```



```

: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
4 0
" 0

```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```

" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

```

```

Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

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" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
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to 0
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ci 0
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" 0
Propeller B-system
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2 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
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IN 0
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} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
: 0

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" 0
Prop B-component
_ I-component
Connector I-component
" 0
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to 0
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ci 0
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Propeller B-system
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

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" 0
to 0
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ci 0
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" 0
Propeller B-system
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4 0
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to 0
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conn 0
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MOTOR B-component
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CONNECTOR I-component
_ 0
CS 0
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IN 0
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0

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: 0
" 0
Propeller B-system
_ 0
5 0
" 0
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" 0
to 0
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
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" 0
to 0
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conn 0
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" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
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} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
ORIENTCONN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
```

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_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0

```

```
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
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2 0
" 0
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" 0
to 0
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conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
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{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
3 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
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" 0
SideConnector B-component
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" 0
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ci 0
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Arm B-system
_ 0
1423 0
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3 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component

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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
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4 0
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to 0
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conn 0
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" 0
EndConnection B-component
" 0
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" 0
from 0
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ci 0
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" 0
Flange B-module
_ 0
489 0
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_ 0
conn 0
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" 0
SideConnector B-component
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to 0
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ci 0
" 0
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Arm B-system
_ 0
1423 0
_ 0
5 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
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_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
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" 0
from 0
_ 0
conn 0
" 0
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" 0
SideConnector B-component
" 0
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" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
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" 0
to 0

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```
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
```

```
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0
```



```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
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to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
```

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, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
```

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, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
887 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
```

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, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0

```

```
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
1 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
```

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2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
```

```
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
4 0
" 0
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" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```



```
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0
```

```

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
489 0
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
```

```
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
```

```
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
```

```
" 0
: 0
" 0
FloorConnector8 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
```



```
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
```

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2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
1423 0
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
```

```
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
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ci 0
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MainHub B-module
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Side B-component
_ I-component
Connector I-component
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Arm B-system
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BaseConnection B-component
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MainHub B-module
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Connector I-component
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Arm B-system
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BaseConnection B-component
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MainHub B-module
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Connector I-component
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Arm B-system
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BaseConnection B-component
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MainHub B-module
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conn 0
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Side B-component
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Connector I-component
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CargoCase B-module
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Case2HubConnector B-component
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MainHub B-module
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conn 0
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Bottom B-system
_ I-system
Connector I-system
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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CS 0
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Motor B-system
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Prop B-component
_ I-component
Connector I-component
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Propeller B-system
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conn 0
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MOTOR B-component
_ I-component
CONNECTOR I-component
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Motor B-system
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Prop B-component
_ I-component
Connector I-component
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Propeller B-system
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CONNECTOR I-component
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Propeller B-system
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_ I-component
CONNECTOR I-component
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Motor B-system
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Connector I-component
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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CS 0
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Motor B-system
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Prop B-component
_ I-component
Connector I-component
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Propeller B-system
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MOTOR B-component
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CONNECTOR I-component
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Motor B-system
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Prop B-component
_ I-component
Connector I-component
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MainHub B-module
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Orient B-component
_ I-component
Connector I-component
" 0
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to 0
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ci 0
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Orient B-module
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conn 0
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ORIENTCONN 0
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} 0
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} 0

FLIGHT B-asset
TEST 0
PROGRAMME 0
(0
Example 0
document 0
for 0
LSA 0
applicants 0
â(0
v1 0
of 0
17 0
. 0

02 0
. 0

16 0
) 0
0 0
. 0

Introduction 0
This 0
document 0
shows 0
the 0
programme 0
of 0
flights B-asset
for 0
certification 0
of 0
the 0
aircraft B-asset
ABCD 0
. 0

The 0
table 0
of 0
section 0
0 0
contains 0
the 0
purposed 0
test 0
sequence 0
with 0
an 0

overview 0
of 0
the 0
main 0
test 0
points 0
and 0
certification 0
conditions 0
. 0

This 0
document 0
demonstrates 0
compliance 0
to 0
the 0
requirements 0
as 0
defined 0
in 0
the 0
certification 0
basis 0
and 0
in 0
the 0
certification 0
programme 0
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Ref 0
. 0

1 0
) 0
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This 0
documents 0
does 0
not 0
give 0
full 0
details 0
of 0
each 0
test 0
points 0
. 0

These 0
details 0
can 0
be 0
found 0
in 0
the 0
individual 0
Flight 0
Test 0
Plans 0
and 0
Flight 0
Test 0

Orders 0
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Table 0
of 0
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Introduction 0
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1 0
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Scope 0
5 0
2 0
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References 0
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Weight 0
and 0
Balance 0
data 0
and 0
limits 0
for 0
flight 0
test 0
phases 0
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4 0
. 0

Flight 0
test 0
methods 0
8 0
5 0
. 0

Configuration 0
of 0
the 0
prototype 0
9 0
6 0
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Flight 0
test 0
team 0
composition 0
9 0
7 0
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Facilities 0
10 0
8 0

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Test 0
instrumentation 0
and 0
configuration 0
13 0
a 0
. 0

Test 0
instrumentation 0
13 0
b 0
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Test 0
aircraft 0
configuration 0
13 0
9 0
. 0

Test 0
airspace 0
13 0
10 0
. 0

Timeline 0
of 0
the 0
flight 0
test 0
14 0
a 0
. 0

The 0
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steps 0
of 0
the 0
flight 0
tests 0
are 0
the 0
following 0
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b 0
. 0

Preconditions 0
of 0
flight 0
tests 0
15 0
c 0
. 0

Schedule 0
of 0
flights 0

15 0
11 0
. 0

Flight 0
test 0
orders 0
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Appendix 0
1 0
â(0
Organisational 0
aspects 0
22 0
Appendix 0
2 0
â(0
Flight 0
Conditions 0
and 0
Permit 0
to 0
Fly 0
39 0
Appendix 0
3 0
â(0
Best 0
Practices 0
39 0
1 0
. 0

Scope 0
This 0
Flight 0
Test 0
Program 0
is 0
intended 0
as 0
a 0
plan 0
of 0
the 0
essential 0
activities 0
required 0
to 0
validate 0
the 0
flight 0
characteristics 0
and 0
the 0
performances 0
of 0
the 0
aircraft B-asset
model 0
ABCD 0
. 0

The 0

aim 0
of 0
that 0
test 0
program 0
is 0
to 0
demonstrate 0
compliance 0
with 0
CS 0
- 0
LSA 0
in 0
particular 0
paragraphs 0
from 0
ASTM 0
F2245 0
- 0
12d 0
. 0

NOTE 0
: 0
This 0
template 0
has 0
been 0
created 0
with 0
the 0
assumption 0
that 0
the 0
applicant 0
is 0
not 0
a 0
DOA 0
holder 0
thus 0
also 0
aspects 0
related 0
organization 0
and 0
safety 0
of 0
the 0
flight 0
are 0
addressed 0
. 0

In 0
case 0
of 0
a 0
DOA 0
holder 0
these 0
latter 0
aspects 0

are 0
normally 0
defined 0
in 0
DOA 0
procedures 0
) 0
2 0
. 0

References 0
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Certification 0
Programme 0
ABCD 0
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CP 0
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ABCD 0
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CCL 0
Compliance 0
Check 0
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list 0
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Means 0
of 0
Compliance 0
list 0
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ABCD 0
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GD 0
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General 0
Description 0
Document 0
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ABCD 0
- 0
WB 0
- 0
08 0
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Weight B-parameter
and 0
Balance B-parameter
Report 0
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ABCD 0
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FL 0
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Flight B-parameter
Load I-parameter
Calculations 0
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AFM 0
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Flight 0
conditions 0
documents 0
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Weight B-parameter
and 0
Balance B-parameter
data 0
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limits 0
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flight 0
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phases 0
Subparagraph 0
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ASTM 0
F2245 0
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requires 0
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following 0
tolerances 0
of 0
weight B-parameter
and 0
CG 0
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Datum 0
plane 0
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a 0
plane 0
through 0
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leading B-location
edge I-location
of 0
the 0
wing B-system
at 0
mean 0
aerodynamic 0
chord 0
, 0

perpendicular 0
to 0
the 0
longitudinal 0
axis 0
of 0
the 0
aircraft B-asset
. 0

See 0
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NOTE 0
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Datum 0
planes 0
could 0
be 0
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plane 0
of 0
the 0
firewall B-component
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the 0
propeller B-system
cone 0
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etc 0
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The 0
CG 0
values 0
may 0
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MAC 0
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it 0
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depends 0
on 0
practical 0
issues 0
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Because 0
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datum 0
plane 0
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wing B-system
leading B-location
edge I-location
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mean 0
aerodynamic 0
chord 0
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calculated 0
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MAC 0
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values 0
easily 0
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The 0
MAC 0
is 0
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m B-measurement
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therefore 0
the 0
forward 0
limit 0
can 0

be 0
calculated 0
with 0
interpolation 0
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forward 0
limit 0
is 0
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86 0
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MAC 0
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aft 0
limit 0
is 0
27 0
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86 0
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MAC 0
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The 0
aircraft B-asset
â(0
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centre B-parameter
of I-parameter
gravity I-parameter
envelope I-parameter
is 0
shown 0
on 0
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page 0
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Calculated 0
Weight B-parameter
and 0
CG B-parameter
values 0
in 0
different 0
conditions 0
: 0
Minimum B-parameter
flying I-parameter
weight I-parameter
(0
and 0
CG B-parameter
position I-parameter
) 0
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minimal 0
useful 0

pilot 0
+ 0
fuel 0
+ 0
consumable 0
material B-parameter
load I-parameter
) 0
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469 0
kg B-measurement
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See 0
limitations 0
in 0
the 0
table 0
below 0
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Aircraft B-asset
â_□ 0
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MTOW 0
with 0
maximum 0
seat 0
load 0
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pilot 0
+ 0
pax 0
) 0
with 0
maximum 0
allowed 0
fuel B-parameter
load I-parameter
and 0
max 0
. 0

baggage B-parameter
compartment I-parameter
load I-parameter
: 0
600 0
kg B-measurement
. 0

The 0
forward 0
and 0
aft 0
centre B-parameter
of I-parameter
gravity I-parameter
limit I-parameter
will 0
be 0
aft 0
of 0
datum 0

plane 0
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describe 0
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weight B-parameter
and 0
balance 0
limitations 0
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ASTM 0
F2245 0
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ASTM 0
F2245 0
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Actual 0
aircraft B-parameter
weight I-parameter
and 0
balance 0
is 0
determined 0
and 0
noted 0
in 0
each 0
test 0
order 0
prior 0
flight 0
using 0
a 0
scale 0
. 0

Weight B-parameter
correction 0
for 0
fuel 0
and 0
occupant B-parameter
loading I-parameter
might 0
be 0
applied 0
. 0

See 0
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Calculated 0
speeds B-parameter
of 0
the 0
designed 0
flight B-parameter
envelope I-parameter
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NOTE 0
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speeds B-parameter
are 0
example 0
speeds 0
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calculated 0
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ASTM 0
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envelope I-parameter
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limitations 0
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phases 0
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Flight 0
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Flight 0
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Guidelines 0
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Test 0
Guide 0
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Certification 0
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Part 0
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Airplanes B-asset
â(□ 0
FAA 0
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Small 0
Airplane B-asset
Certification 0
Compliance 0
Program 0
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Amateur 0
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Aircraft B-asset
And 0
Ultralight 0
Flight 0
Testing 0
Handbook 0
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Edward 0
Lan 0
and 0
Jan 0
Roskam 0
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Airplane B-asset
Aerodynamics 0
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Performance 0
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Roskam 0
Aviation 0
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Handbook 0
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Report 0
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National 0
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Information 0
Service 0
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Springfield 0
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VA 0
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ADVISORY 0
COMMITTEE 0
FOR 0
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TECHNICAL 0
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Effects 0
Of 0
Stability 0
Of 0
Spin 0
- 0
recovery 0
Tail 0
Parachutes 0
On 0
The 0
Behavior 0

Of 0
Airplanes B-asset
In 0
Gliding 0
Flight 0
And 0
In 0
Spins 0
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By 0
Stanley 0
H 0
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Scher 0
and 0
John 0
W 0
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Draper 0
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Langley 0
Aeronautical 0
Laboratory 0
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Langley 0
Air 0
Force 0
Base 0
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Spin 0
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Recovery 0
Parachute 0
System 0
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Light 0
General 0
- 0
Aviation 0
Airplanes B-asset
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Charles 0
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Bradshaw 0
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Langley 0
Research 0
Center 0
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Hampton 0
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Virginia 0
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NAVAL 0
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PILOT 0
SCHOOL 0
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FLIGHT 0
TEST 0
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FIXED 0
WING 0
STABILITY 0
AND 0
CONTROL 0
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Theory 0
and 0
Flight 0
Test 0
Techniques 0
. 0

Naval 0
Air 0
Warfare 0
Center 0
Aircraft 0
Division 0

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River 0
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MD 0
January 0
1997 0
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Ralph 0
D 0
. 0

Kimberlin 0
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Flight 0
Testing 0
of 0
Fixed 0
- 0
Wing 0
Aircraft B-asset
, 0

AIAA 0
Education 0
series 0
, 0

2003 0
5 0
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Configuration 0
of 0
the 0
prototype 0
The 0
configuration 0
of 0
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prototype 0
is 0
schematically 0
described 0
in 0
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table 0
below 0
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Test 0
configuration 0
table 0
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NOTE 0
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AoA 0
and 0
slip 0
- 0
flags 0
may 0

be 0
attached 0
to 0
the 0
swivel 0
- 0
head 0
pitot B-component
tube I-component
Details 0
of 0
how 0
the 0
Configuration 0
management 0
will 0
take 0
place 0
are 0
described 0
in 0
the 0
appendix 0
. 0

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NOTE 0
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configuration 0
management 0
procedures 0
normally 0
are 0
not 0
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part 0
of 0
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Flight 0
Test 0
Program 0
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NOTE 0
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The 0
prototype 0
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and 0
its 0
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is 0
under 0
the 0
responsibility 0
of 0
the 0
Design 0
Organization 0
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A 0
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33 0
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6 0
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Flight 0
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composition 0
Classification 0
of 0
Flight 0
Test 0
Pilots 0
and 0
Engineers 0
as 0
well 0
as 0
mechanics 0
involved 0
in 0
flight 0
test 0
campaign 0
. 0

Notes 0
: 0
(0
1 0
) 0
Experience 0
: 0
1600 0
flight 0
hours B-measurement
on 0
CS 0
- 0
23 0
aircrafts B-asset
, 0

400 0
hours B-measurement
as 0
instructor 0
and 0
150 0
during 0
flight 0
testing 0
, 0

aerobatic 0
rating 0

(0
2 0
) 0
Experience 0
: 0
600 0
flight 0
hours B-measurement
(0
3 0
) 0
Experience 0
: 0
800 0
flight 0
hours B-measurement
(0
4 0
) 0
Leading 0
Flight 0
Test 0
Engineer 0
(0
5 0
) 0
Chief 0
of 0
CS 0
(0
6 0
) 0
Mechanic 0
All 0
the 0
members 0
of 0
Flight 0
Test 0
Team 0
have 0
received 0
special 0
egress 0
training 0
iaaw 0
. 0

FAA 0
Order 0
8900 0
, 0

Volume 0
3 0
, 0

Chapter 0
4 0
, 0

â(0
Flight 0
crew 0

General 0
Emergency 0
Training 0
Curriculum 0
Segments 0
â(0
Records 0
of 0
all 0
the 0
training 0
can 0
be 0
found 0
in 0
â(0
NOTE 0
: 0
(0
put 0
the 0
reference 0
here 0
for 0
the 0
personal 0
file 0
; 0
e 0
. 0

g 0
. 0

Training 0
records 0
are 0
stored 0
in 0
computer 0
files 0
as 0
well 0
as 0
in 0
â(0
hard 0
copy 0
â(0
. 0

A 0
summary 0
document 0
about 0
the 0
trainings 0
can 0
be 0
found 0
on 0
the 0
company 0
â(0

s 0
local 0
network 0
. 0

) 0
Responsibilities 0
of 0
personnel 0
can 0
be 0
also 0
described 0
here 0
. 0

Details 0
of 0
available 0
maintenance 0
personnel 0
(0
staff 0
number 0
, 0

list 0
of 0
certifying 0
staff 0
) 0
also 0
can 0
be 0
described 0
in 0
present 0
paragraph 0
. 0

7 0
. 0

Facilities 0
The 0
airport 0
for 0
test 0
flights 0
and 0
test 0
airspace 0
are 0
described 0
here 0
. 0

NOTE 0
:
The 0
information 0
may 0
be 0
found 0

in 0
AIP 0
, 0

or 0
in 0
data 0
provided 0
by 0
airport 0
operator 0
. 0

Local 0
Airfield 0
(0
Home 0
Base 0
) 0
Runways 0
:
Other 0
airfield 0
Other 0
airfield 0
is 0
used 0
as 0
an 0
alternate 0
airport 0
during 0
flight 0
tests 0
. 0

Runways 0
:
Hangar 0
In 0
this 0
paragraph 0
, 0

the 0
following 0
points 0
will 0
be 0
defined 0
:
â(0
General 0
description 0
â(0
Layout 0
â(0
Protection 0
of 0
the 0
test 0
aircraft B-asset
Rescue 0
and 0

safety 0
equipment 0
This 0
point 0
will 0
contain 0
all 0
the 0
required 0
safety 0
equipment 0
. 0

â(0
Description 0
the 0
location 0
of 0
fire 0
extinguishers 0
, 0

first 0
aid 0
kits 0
, 0

or 0
other 0
rescue 0
and 0
safety 0
equipment 0
. 0

â(0
Ground 0
personnel 0
protection 0
(0
visors 0
, 0

helmets 0
, 0

headphones 0
) 0
â(0
Description 0
of 0
fire 0
station 0
and 0
ambulance 0
station 0
â(0
s 0
notification 0
procedures 0
(0
about 0
the 0
test 0

flights 0
) 0
. 0

â(0
Classification 0
the 0
responsible 0
search 0
and 0
rescue 0
service 0
. 0

â(0
Permanently 0
installed 0
safety 0
equipment 0
(0
on 0
- 0
board 0
) 0
(0
seat 0
belt 0
, 0

ELT 0
, 0

pilot 0
parachute 0
, 0

crash 0
axe 0
, 0

etc 0
. 0

) 0
â(0
Specific 0
safety 0
provisions 0
for 0
the 0
prototype 0
(0
jettisonable 0
canopy 0
, 0

parachutes 0
) 0
â(0
Special 0
safety 0
equipment 0
(0
life 0

vests 0
, 0

survival 0
kit 0
, 0

oxygen 0
bottle 0
, 0

etc 0
. 0

) 0
â(0
Operation 0
rules 0
for 0
a 0
chase 0
plane B-asset
Emergency 0
response 0
plan 0
Aims 0
of 0
Emergency 0
Response 0
Plan 0
(0
ERP 0
) 0
:
â(0
highlight 0
the 0
policies 0
and 0
procedures 0
to 0
be 0
implemented 0
in 0
case 0
of 0
a 0
crisis 0
, 0

â(0
offer 0
advice 0
to 0
the 0
members 0
of 0
the 0
crisis 0
management 0
team 0
in 0
carrying 0
out 0

their 0
responsibilities 0
, 0

â€ 0
communicate 0
relevant 0
information 0
to 0
employees 0
of 0
the 0
organization 0
and 0
members 0
of 0
the 0
public 0
. 0

NOTE 0
: 0
The 0
ERP 0
might 0
be 0
designed 0
as 0
a 0
separate 0
document 0
or 0
part 0
of 0
the 0
test 0
program 0
, 0

according 0
to 0
the 0
decision 0
of 0
the 0
applicant 0
. 0

As 0
opposed 0
to 0
other 0
manuals 0
of 0
the 0
company 0
, 0

the 0
ERP 0
manual 0
is 0
designed 0
to 0

cover 0
crisis 0
situations 0
which 0
cannot 0
specifically 0
or 0
precisely 0
be 0
defined 0
. 0

An 0
organizational 0
framework 0
of 0
the 0
actions 0
and 0
policies 0
required 0
to 0
be 0
implemented 0
is 0
presented 0
. 0

However 0
, 0

it 0
is 0
unlikely 0
that 0
an 0
actual 0
emergency 0
situation 0
will 0
adapt 0
to 0
a 0
precise 0
framework 0
. 0

Adaptability 0
and 0
flexibility 0
should 0
therefore 0
be 0
demonstrated 0
in 0
the 0
handling 0
of 0
such 0
events 0
. 0

The 0
following 0

events 0
may 0
result 0
in 0
a 0
crisis 0
situation 0
and 0
activate 0
the 0
Emergency 0
Response 0
Plan 0
:
0
â(0
Aviation B-asset
accident 0
/
0
Serious 0
incident 0
â(0
Disaster 0
in 0
the 0
premises 0
:
0
Fire 0
, 0

explosion 0
, 0

pollution 0
, 0

flood 0
â(0
Loss 0
of 0
the 0
working 0
resource 0
:
0
workshop 0
, 0

offices 0
, 0

hangar 0
, 0

aircraft B-asset
â(0
Impacts 0
of 0
a 0
disaster 0
within 0
the 0
vicinity 0
of 0
the 0
establishment 0

â(0
Climatic 0
event 0
: 0
snow 0
, 0

storm 0
, 0

flood 0
, 0

lightning 0
â(0
Natural 0
disaster 0
: 0
earthquake 0
, 0

volcanic 0
eruption 0
â(0
Food 0
poisoning 0
, 0

epidemic 0
â(0
Death 0
at 0
the 0
workplace 0
â(0
Multiple 0
victims 0
connected 0
to 0
a 0
disaster 0
, 0

illness 0
or 0
contagion 0
â(0
Accident 0
to 0
the 0
public 0
transportation 0
of 0
the 0
personnel 0
â(0
Social 0
movements 0
: 0
strike 0
, 0

blocking 0
of 0

the 0
accesses 0
â(0
Internal 0
or 0
external 0
threat 0
: 0
Attack 0
, 0

bomb 0
alert 0
, 0

sabotage 0
, 0

terrorism 0
, 0

â(0
Loss 0
of 0
energy 0
: 0
electricity 0
, 0

gas 0
â(0
Loss 0
of 0
communication 0
means 0
: 0
internet 0
, 0

landlines 0
or 0
mobile 0
telephones 0
â(0
Major 0
media 0
event 0
â(0
Accident 0
during 0
missions 0
: 0
business 0
trip 0
, 0

abroad 0
. 0

Proposed 0
parts 0
of 0
ERP 0
: 0

1 0
. 0

Definitions 0
(0
use 0
ICAO 0
Annex 0
13 0
, 0

Chapter 0
1 0
for 0
reference 0
) 0
2 0
. 0

Organizing 0
emergency 0
responses 0
(0
checklists 0
, 0

list 0
of 0
managers 0
to 0
notify 0
, 0

etc 0
. 0

) 0
3 0
. 0

Emergency 0
call 0
action 0
4 0
. 0

Crisis 0
management 0
; 0
roles 0
of 0
crisis 0
management 0
5 0
. 0

Rules 0
of 0
internal 0
and 0
external 0
communication 0
6 0
. 0

Egress 0
training 0
schedule 0
and 0
rules 0
8 0
. 0

Test 0
instrumentation 0
and 0
configuration 0
a 0
. 0

Test 0
instrumentation 0
See 0
the 0
table 0
below 0
; 0
this 0
table 0
will 0
summarize 0
the 0
configurations 0
during 0
the 0
flight 0
test 0
campaign 0
. 0

NOTE 0
: 0
â(0
I0 0
â(0
instrumentation 0
â(0
is 0
the 0
basic 0
applied 0
instrumentation 0
for 0
the 0
flight 0
test 0
campaign 0
. 0

In 0
the 0
column 0
â(0
priority 0
â(0
there 0
is 0
a 0

priority 0
index 0
for 0
each 0
equipment 0
. 0

The 0
meaning 0
:
lower 0
numbers 0
- 0
higher 0
priority 0
- 0
â(0
must 0
have 0
â(0
equipment 0
. 0

NOTE 0
:
if 0
the 0
aircraft B-asset
is 0
designed 0
with 0
â(0
glass 0
- 0
cockpit 0
â(0
, 0

and 0
the 0
system 0
has 0
the 0
capability 0
to 0
log 0
to 0
an 0
SD 0
card 0
, 0

it 0
can 0
be 0
acceptable 0
for 0
use 0
as 0
long 0
as 0
its 0
suitability 0
is 0

assessed 0
. 0

b 0
. 0

Test 0
aircraft 0
configuration 0
Test 0
aircraft B-asset
configuration 0
is 0
like 0
the 0
production 0
aircraft B-asset
; 0
exceptions 0
are 0
noted 0
in 0
chapter 0
7 0
. 0

9 0
. 0

Test 0
airspace 0
Flight 0
tests 0
will 0
be 0
executed 0
in 0
a 0
separated 0
airspace 0
10 0
NM 0
from 0
ZZZZ 0
airport 0
. 0

The 0
area 0
is 0
unpopulated 0
, 0

the 0
next 0
inhabited 0
area 0
is 0
XXX 0
, 0

in 0
the 0
direction 0

of 0
N 0
/ 0
S 0
/ 0
W 0
/ 0
E 0
in 0
a 0
distance 0
of 0
YY 0
NM 0
. 0

(0
Or 0
defined 0
by 0
the 0
responsible 0
ATS 0
unit 0
. 0

) 0
Temporary 0
airspace 0
limitations 0
might 0
be 0
requested 0
from 0
the 0
national 0
aeronautical 0
navigation 0
company 0
, 0

and 0
issued 0
in 0
NOTAMS 0
. 0

10 0
. 0

Timeline 0
of 0
the 0
flight 0
test 0
a 0
. 0

The 0
planned 0
steps 0
of 0
the 0
flight 0

tests 0
are 0
the 0
following 0
: 0
NOTE 0
: 0
the 0
phases 0
are 0
the 0
following 0
: 0
if 0
Phase1 0
: 0
first 0
flights 0
; 0
preliminary 0
performances 0
, 0

handling 0
qualities 0
, 0

If 0
necessary 0
, 0

a 0
â 0
Phase 0
1b 0
â 0
also 0
could 0
be 0
added 0
between 0
Phase 0
1 0
and 0
2 0
. 0

This 0
phase 0
has 0
the 0
same 0
limitations 0
as 0
â 0
Phase 0
1 0
â 0
, 0

except 0
the 0
wider 0
CG 0

range 0
. 0

if 0
Phase2 0
: 0
performances 0
in 0
various 0
flight 0
phases 0
if 0
Phase3 0
: 0
assessing 0
the 0
limitations 0
, 0

extend 0
the 0
flight B-parameter
envelope I-parameter
to 0
its 0
limits 0
. 0

Between 0
each 0
steps 0
, 0

there 0
are 0
breakpoints 0
; 0
each 0
breakpoints 0
will 0
include 0
an 0
assessment 0
about 0
the 0
continuation 0
of 0
the 0
program 0
. 0

If 0
the 0
airplane B-asset
fails 0
any 0
of 0
the 0
pass 0
/ 0
fail 0
criteria 0
; 0
the 0

part 0
of 0
the 0
test 0
program 0
should 0
be 0
repeated 0
. 0

For 0
each 0
part 0
of 0
the 0
flight 0
test 0
campaign 0
, 0

different 0
flight 0
conditions 0
may 0
be 0
applicable 0
. 0

An 0
example 0
for 0
that 0
is 0
shown 0
below 0
:
Phase 0
1 0
:
Limitations 0
(0
design 0
value 0
are 0
shown 0
in 0
brackets 0
for 0
comparison 0
) 0
â(0
Never 0
exceed 0
speed B-parameter
VNE 0
:
130 0
kts B-measurement
(0
160 0
kts B-measurement
) 0
â(0
Manoeuvring 0

speed B-parameter
VA 0
: 0
90 0
kts B-measurement
(0
100 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
VNO 0
: 0
110 0
kts B-measurement
(0
120 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
Crosswind 0
component 0
limit 0
: 0
5 0
kts B-measurement
 $\hat{\alpha}_{\square}$ 0
Max 0
. 0

manoeuvring 0
load B-parameter
factors 0
: 0
+ 0
1 0
. 0

5 0
/ 0
 $\hat{\alpha}_{\square}$ 0
1 0
(0
+ 0
4 0
/ 0
 $\hat{\alpha}_{\square}$ 0
2 0
) 0
 $\hat{\alpha}_{\square}$ 0
Max 0
. 0

operating 0
altitude B-parameter
: 0
5000 0
feet B-measurement
(0
13000 0
feet B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
MTOM 0
: 0

520 0
kg B-measurement
(0
600 0
kg B-measurement
) 0
 $\hat{\alpha}$ 0
Flight B-parameter
centre I-parameter
of I-parameter
gravity I-parameter
limits 0
: 0
29 0
. 0

7 0
 $\hat{\alpha}$ 0
34 0
. 0

9 0
centimetres B-measurement
aft 0
of 0
datum 0
(0
24 0
 $\hat{\alpha}$ 0
39 0
cm B-measurement
aft 0
of 0
datum 0
) 0
 $\hat{\alpha}$ 0
Air 0
crew 0
: 0
1 0
pilot 0
(0
1 0
+ 0
1 0
) 0
 $\hat{\alpha}$ 0
Airspace 0
: 0
10 0
NM 0
radius 0
of 0
ZZZZ 0
airfield 0
, 0

avoiding 0
inhabited 0
areas 0
Phase 0
1b 0
: 0
Limitations 0

(0
design 0
value 0
are 0
shown 0
in 0
brackets 0
for 0
comparison 0
) 0
 $\hat{\alpha}_{\square}$ 0
Never 0
exceed 0
speed B-parameter
VNE 0
: 0
130 0
kts B-measurement
(0
160 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
Manoeuvring B-parameter
speed I-parameter
VA 0
: 0
90 0
kts B-measurement
(0
100 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
VNO 0
: 0
110 0
kts B-measurement
(0
120 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
Crosswind 0
component 0
limit 0
: 0
5 0
kts B-measurement
(0
15 0
kts B-measurement
) 0
 $\hat{\alpha}_{\square}$ 0
Max 0
. 0

manoeuvring 0
load B-parameter
factors 0
: 0
+ 0
2 0
/ 0

â(0
1 0
(0
+ 0
4 0
/ 0
â(0
2 0
) 0
â(0
Max 0
. 0

operating 0
altitude B-parameter
: 0
5000 0
feet B-measurement
(0
13000 0
feet B-measurement
) 0
â(0
MTOM 0
: 0
520 0
kg B-measurement
(0
600 0
kg B-measurement
) 0
â(0
Flight B-parameter
centre I-parameter
of I-parameter
gravity I-parameter
limits 0
: 0
24 0
â(0
39 0
centimetres B-measurement
aft 0
of 0
datum 0
â(0
Air 0
crew 0
: 0
1 0
pilot 0
(0
1 0
+ 0
1 0
) 0
â(0
Airspace 0
: 0
10 0
NM 0
radius 0
of 0
ZZZZ 0

airfield 0
, 0

avoiding 0
inhabited 0
areas 0
Phase 0
2 0
: 0
Limitations 0
(0
design 0
value 0
are 0
shown 0
in 0
brackets 0
for 0
comparison 0
) 0
 $\hat{\alpha}$ 0
Never 0
exceed 0
speed B-parameter
VNE 0
: 0
145 0
kts B-measurement
(0
160 0
kts B-measurement
) 0
 $\hat{\alpha}$ 0
Manoeuvring B-parameter
speed I-parameter
VA 0
: 0
100 0
kts B-measurement
 $\hat{\alpha}$ 0
VNO 0
: 0
120 0
kts B-measurement
 $\hat{\alpha}$ 0
Crosswind 0
component 0
limit 0
: 0
5 0
kts B-measurement
(0
15 0
kts B-measurement
) 0
 $\hat{\alpha}$ 0
Max 0
. 0

manoeuvring 0
load B-parameter
factors 0
: 0
+ 0

2 0
/ 0
â(□ 0
1 0
. 0

5 0
(0
+ 0
4 0
/ 0
â(□ 0
2 0
) 0
â(□ 0
Max 0
. 0

operating 0
altitude B-parameter
: 0
8000 0
feet B-measurement
(0
13000 0
feet B-measurement
) 0
â(□ 0
MTOM 0
: 0
600 0
kg B-measurement
â(□ 0
Flight B-parameter
centre I-parameter
of I-parameter
gravity I-parameter
limits 0
: 0
24 0
â(□ 0
39 0
centimetres B-measurement
aft 0
of 0
datum 0
(0
different 0
value 0
can 0
be 0
used 0
, 0

see 0
flight 0
test 0
order 0
) 0
â(□ 0
Air 0
crew 0
: 0
1 0

pilot 0
+ 0
1engineer 0
(0
if 0
needed 0
) 0
â(0
Airspace 0
: 0
10 0
NM 0
radius 0
of 0
ZZZZ 0
airfield 0
, 0

avoiding 0
inhabited 0
areas 0
Phase 0
3 0
Limitations 0
(0
design 0
value 0
are 0
shown 0
in 0
brackets 0
for 0
comparison 0
) 0
â(0
Never 0
exceed 0
speed B-parameter
VNE 0
: 0
160 0
kts B-measurement
â(0
Manoeuvring B-parameter
speed I-parameter
VA 0
: 0
100 0
kts B-measurement
â(0
VNO 0
: 0
120 0
kts B-measurement
â(0
Crosswind 0
component 0
limit 0
: 0
15 0
kts B-measurement
â(0
Max 0
. 0

manoeuvring B-parameter
load I-parameter
factors 0
: 0
+ 0
4 0
/ 0
2 0
 $\hat{a}_{\square}$ 0
Max 0
. 0

operating 0
altitude B-parameter
: 0
13000 0
feet B-measurement
 $\hat{a}_{\square}$ 0
MTOM 0
: 0
600 0
kg B-measurement
 $\hat{a}_{\square}$ 0
Flight B-parameter
centre I-parameter
of I-parameter
gravity I-parameter
limits 0
: 0
24 0
 $\hat{a}_{\square}$ 0
39 0
centimetres 0
aft 0
of 0
datum B-parameter
 $\hat{a}_{\square}$ 0
Air B-component
crew I-component
: 0
1 0
pilot 0
+ 0
1 0
engineer 0
(0
if 0
needed 0
) 0
 $\hat{a}_{\square}$ 0
Airspace 0
: 0
10 0
NM 0
radius 0
of 0
ZZZZ 0
airfield 0
, 0

avoiding 0
inhabited 0
areas 0

b 0
. 0

Preconditions 0
of 0
flight 0
tests 0
Flight 0
tests 0
can 0
be 0
conducted 0
, 0

when 0
: 0
â(0
static 0
tests 0
of 0
wing B-system
, 0

fuselage B-system
, 0

empennages B-component
are 0
done 0
(0
within 0
the 0
initial 0
limited 0
flight B-parameter
envelope I-parameter
, 0

it 0
may 0
acceptable 0
that 0
some 0
static 0
tests 0
are 0
not 0
completed 0
. 0

A 0
proposal 0
, 0

supported 0
by 0
an 0
engineering 0
rationale 0
, 0

should 0
be 0
agreed 0

with 0
the 0
Agency 0
. 0

Supporting 0
analysis 0
, 0

similarity 0
with 0
previously 0
approved 0
design 0
, 0

simplicity 0
of 0
the 0
design 0
can 0
be 0
used 0
to 0
support 0
the 0
rationale 0
. 0

Service 0
experience 0
is 0
not 0
normally 0
, 0

alone 0
, 0

a 0
valid 0
argument 0
) 0
â(0
Control B-control
system I-control
static 0
and 0
operation 0
tests 0
are 0
done 0
; 0
â(0
An 0
analysis 0
at 0
least 0
of 0
the 0
Landing B-system
gear I-system
strength 0
and 0

absorption 0
capability 0
â(0
Flutter 0
analysis 0
supported 0
by 0
GVT 0
(0
a 0
preliminary 0
analysis 0
can 0
be 0
acceptable 0
within 0
the 0
limited 0
envelope 0
, 0

but 0
before 0
full 0
opening 0
of 0
the 0
envelope 0
, 0

the 0
full 0
analysis 0
shall 0
be 0
agreed 0
by 0
the 0
agency 0
) 0
; 0
â(0
Before 0
first 0
flight 0
, 0

a 0
maintenance 0
check 0
must 0
be 0
carried 0
out 0
. 0

After 0
engine B-system
ground 0
run 0
, 0

all 0
the 0

operational 0
fluids 0
(0
fuel 0
, 0

oil 0
, 0

coolant 0
) 0
must 0
be 0
drained 0
, 0

and 0
inspected 0
for 0
contamination 0
, 0

particles 0
, 0

etc 0
. 0

â(0
Ground 0
tests 0
of 0
the 0
powerplant B-system
systems I-system
are 0
completed 0
; 0
â(0
Ground 0
tests 0
of 0
the 0
avionic B-system
systems I-system
are 0
completed 0
; 0
â(0
Test 0
aircraft 0
configuration 0
properly 0
documented 0
; 0
(0
the 0
above 0
set 0
of 0
tests 0
/ 0
analyses 0
can 0

vary 0
significantly 0
from 0
project 0
to 0
project 0
. 0

A 0
proposal 0
shall 0
be 0
agreed 0
in 0
advance 0
with 0
the 0
Agency 0
. 0

For 0
this 0
reason 0
it 0
is 0
important 0
that 0
this 0
document 0
is 0
drafted 0
in 0
a 0
fairly 0
early 0
phase 0
of 0
the 0
project 0
) 0
. 0

c 0
. 0

Schedule 0
of 0
flights 0
N 0
/ 0
A 0
â(0
the 0
test 0
point 0
is 0
not 0
directly 0
performed 0
for 0
certification 0
(0
development 0
flight 0

) 0
(0
for 0
example 0
:
0
Flights 0
aimed 0
to 0
go 0
through 0
a 0
stepped 0
approach 0
to 0
the 0
compliance 0
test 0
point 0
are 0
also 0
considered 0
development 0
flight 0
:
0
stalls 0
at 0
mid 0
CG 0
, 0

ceiling 0
flights 0
, 0

general 0
flight 0
characteristics 0
, 0

etc 0
. 0

) 0
Some 0
paragraph 0
from 0
the 0
requirements 0
are 0
not 0
covered 0
with 0
particular 0
flight 0
tasks 0
, 0

these 0
parameters 0
will 0
be 0
observed 0
throughout 0
the 0

complete 0
flight 0
test 0
program 0
. 0

Observations 0
and 0
reports 0
are 0
reported 0
into 0
a 0
document 0
named 0
â□ 0
Qualitative 0
pilot 0
statements 0
â□ 0
(0
example 0
:
assessment 0
of 0
the 0
cockpit 0
accessibility 0
and 0
visibility 0
) 0
. 0

11 0
. 0

Flight 0
test 0
orders 0
Normally 0
, 0

the 0
test 0
plan 0
must 0
contain 0
the 0
flight 0
test 0
orders 0
(0
for 0
each 0
flight 0
) 0
, 0

each 0
flight 0
test 0
order 0
must 0
contain 0

the 0
flight 0
test 0
cards 0
(0
for 0
each 0
test 0
points 0
) 0
. 0

Each 0
test 0
order 0
will 0
contain 0
the 0
following 0
parts 0
:
â(0
Sequence 0
of 0
planning 0
of 0
flights 0
â(0
If 0
the 0
flights 0
are 0
certification 0
flights 0
, 0

a 0
reference 0
to 0
the 0
applicable 0
requirements 0
â(0
Method 0
of 0
test 0
flight 0
â(0
Weight B-parameter
and 0
balance 0
settings 0
â(0
Required 0
weather 0
conditions 0
(0
and 0
log 0
for 0
the 0
actual 0
) 0
â(0

Required 0
facilities 0
and 0
airspace 0
â(0
Designated 0
crew 0
(0
pilot 0
, 0

engineer 0
) 0
â(0
Communication 0
rules 0
(0
frequencies 0
) 0
â(0
Aircraft B-asset
configuration 0
and 0
instrumentation 0
â(0
Specific 0
limitations 0
for 0
the 0
flights 0
â(0
Emergency 0
procedures 0
, 0

risk 0
mitigation 0
â(0
Test 0
points 0
, 0

limits 0
, 0

and 0
assessments 0
â(0
Flight 0
profile 0
â(0
Test 0
cards 0
for 0
each 0
flight 0
For 0
a 0
test 0
card 0
example 0
; 0
see 0
part 0

14 0
of 0
Appendix 0
. 0

For 0
risk 0
mitigation 0
example 0
, 0

see 0
part 0
10 0
. 0

of 0
the 0
Appendix 0
. 0

Appendix 0
1 0
â€” 0
Organisational 0
aspects 0
This 0
appendix 0
is 0
intended 0
to 0
provide 0
guidance 0
for 0
applicants 0
without 0
a 0
Flight 0
Test 0
Organization 0
(0
and 0
a 0
DOA 0
) 0
. 0

In 0
fact 0
, 0

the 0
aspects 0
treated 0
here 0
are 0
normally 0
treated 0
in 0
the 0
FTOM 0
. 0

In 0

case 0
a 0
Flight 0
test 0
organization 0
is 0
not 0
in 0
place 0
, 0

the 0
content 0
of 0
this 0
appendix 0
can 0
be 0
used 0
to 0
complement 0
the 0
flight 0
test 0
program 0
. 0

This 0
appendix 0
can 0
be 0
seen 0
as 0
a 0
â(0
small 0
â(0
FTOM 0
. 0

1 0
. 0

Special 0
tools 0
and 0
equipment 0
â(0
Data 0
source 0
summary 0
The 0
table 0
shown 0
below 0
list 0
all 0
special 0
/ 0
measurement 0
equipment 0
typically 0
used 0
and 0

its 0
purpose 0
. 0

All 0
measurement 0
equipment 0
shall 0
be 0
calibrated 0
(0
see 0
21 0
. 0

A 0
. 0

33 0
2 0
. 0

) 0
. 0

(0
1 0
) 0
Picture 0
could 0
be 0
inserted 0
there 0
(0
2 0
) 0
Picture 0
, 0

or 0
engineering 0
drawing 0
could 0
be 0
inserted 0
there 0
2 0
. 0

Airfield 0
assessment 0
It 0
is 0
recommended 0
, 0

that 0
for 0
the 0
first 0
flights 0
the 0
airport 0
must 0

be 0
obstacle 0
- 0
free 0
. 0

Aspects 0
like 0
obstacles 0
and 0
suitability 0
of 0
the 0
areas 0
for 0
emergency 0
landing 0
(0
Congested 0
areas 0
, 0

lakes 0
, 0

uncultivated 0
lands 0
, 0

pits 0
, 0

etc 0
. 0

) 0
shall 0
be 0
assessed 0
and 0
noted 0
on 0
a 0
VFR 0
chart 0
(0
or 0
even 0
a 0
google 0
map 0
picture 0
! 0
! 0
) 0
. 0

An 0
example 0
below 0
. 0

3 0
. 0

Requirement 0
of 0
Flight 0
Test 0
Team 0
Below 0
2000 0
kg B-measurement
of 0
MTOW 0
, 0

there 0
is 0
no 0
specific 0
requirement 0
in 0
qualifications 0
and 0
/ 0
or 0
flight B-parameter
hours I-parameter
. 0

Although 0
, 0

the 0
applicant 0
should 0
establish 0
its 0
rules 0
about 0
selection 0
of 0
crewmembers 0
. 0

E 0
. 0

g 0
. 0

Flight B-parameter
hours I-parameter
, 0

previous 0
experience 0
, 0

aerobatic 0
rating 0
(0
iaaw 0
. 0

FCL 0
. 0

800 0
) 0
, 0

etc 0
. 0

4 0
. 0

Phases 0
of 0
the 0
flight 0
tests 0
This 0
section 0
defines 0
how 0
the 0
Flight 0
Test 0
Campaign 0
phases 0
are 0
organized 0
and 0
the 0
general 0
criteria 0
for 0
the 0
opening 0
of 0
the 0
envelope 0
. 0

Since 0
, 0

these 0
aspects 0
have 0
been 0
already 0
addressed 0
in 0
the 0
core 0
part 0
of 0
the 0
document 0
, 0

they 0
will 0
not 0
be 0
treated 0
in 0
this 0

appendix 0
. 0

5 0
. 0

Strategy 0
for 0
extension 0
of 0
the 0
flight B-parameter
envelope I-parameter
The 0
extension 0
of 0
the 0
envelope 0
will 0
be 0
done 0
step 0
by 0
step 0
. 0

â(0
Familiarization 0
: 0
In 0
this 0
phase 0
the 0
flight 0
test 0
crew 0
familiarizes 0
themselves 0
with 0
the 0
aircraft 0
, 0

its 0
controls 0
, 0

and 0
the 0
evacuation 0
procedures 0
â(0
Ground 0
tests 0
: 0
In 0
this 0
phase 0
, 0

necessary 0
ground 0
tests 0
before 0

the 0
first 0
flight 0
will 0
be 0
performed 0
(0
wing B-system
static 0
test 0
, 0

control B-system
system I-system
test 0
, 0

etc 0
. 0

) 0
â(0
First 0
flight 0
: 0
The 0
demonstration 0
of 0
the 0
aircraft B-asset
is 0
capable 0
for 0
flight 0
â(0
Stability 0
, 0

handling 0
. 0

First 0
with 0
limited 0
CG 0
range 0
, 0

and 0
limited 0
weight B-parameter
â(0
Extending 0
the 0
stability 0
and 0
handling 0
tests 0
to 0
the 0
whole 0
CG 0
range 0
â(0

Performances 0

(0
take 0
- 0
off 0
, 0

landing 0
, 0

go 0
- 0
around 0
, 0

climbing 0
, 0

gliding 0
characteristics 0
) 0
â(0
Extending 0
the 0
flight B-parameter
envelope I-parameter
(0
flutter 0
assessment 0
, 0

stalls 0
, 0

spins 0
, 0

flights 0
around 0
â(0
and 0
beyond 0
- 0
VNE 0
) 0
6 0
. 0

Briefing 0
rules 0
A 0
flight 0
test 0
order 0
will 0
be 0
filled 0
for 0
each 0
flight 0
. 0

This 0
order 0

contains 0
data 0
about 0
: 0
â(0
the 0
flight 0
test 0
team 0
â(0
their 0
medical 0
fitness 0
for 0
the 0
particular 0
task 0
â(0
the 0
predefined 0
sequence 0
of 0
tasks 0
(0
and 0
referring 0
flight 0
test 0
cards 0
) 0
â(0
the 0
flight 0
profile 0
â(0
weight 0
and 0
balance 0
information 0
â(0
limitations 0
applicable 0
to 0
that 0
flight 0
â(0
emergency 0
procedures 0
â(0
aircraft 0
â(0
s 0
status 0
and 0
maintenance 0
release 0
for 0
the 0
test 0
â(0
test 0
points 0
and 0
test 0

methods 0
, 0

assessment 0
methods 0
(0
See 0
the 0
Cooper 0
- 0
Harper 0
handling 0
scale 0
for 0
reference 0
) 0
After 0
filling 0
the 0
flight 0
test 0
order 0
, 0

a 0
daily 0
briefing 0
will 0
be 0
commenced 0
. 0

It 0
will 0
cover 0
:
0
the 0
the 0
points 0
of 0
the 0
flight 0
test 0
order 0
the 0
establishing 0
the 0
flight 0
test 0
cards 0
the 0
the 0
meteorological 0
situation 0
the 0
the 0
proposed 0
actions 0
in 0
an 0
emergency 0
the 0
check 0
- 0

up 0
of 0
necessary 0
documents 0
(0
aircraft 0
, 0

personnel 0
) 0
7 0
. 0

Handling 0
qualities 0
assessment 0
example 0
Figure 0
1 0
â(0
Cooper 0
- 0
Harper 0
handling 0
scale 0
Example 0
:
Ground 0
stability 0
and 0
control 0
tests 0
to 0
see 0
compliance 0
against 0
4 0
. 0

7 0
. 0

1 0
and 0
4 0
. 0

7 0
. 0

2 0
of 0
ASTM 0
F2245 0
. 0

The 0
aim 0
of 0
the 0
test 0
:
evaluate 0
the 0

aircraft 0
â(0
s 0
controllability 0
on 0
ground 0
and 0
show 0
, 0

that 0
the 0
pilot 0
is 0
able 0
to 0
maintain 0
the 0
direction 0
of 0
taxiing 0
. 0

The 0
pilot 0
should 0
assess 0
these 0
questions 0
on 0
the 0
left 0
side 0
of 0
the 0
diagram 0
:
â(0
Is 0
it 0
controllable 0
?
Is 0
the 0
pilot 0
able 0
to 0
maintain 0
the 0
centreline 0
of 0
the 0
runway 0
?
If 0
yes 0
, 0

move 0
to 0
the 0
next 0
question 0
;
0

â(0
Is 0
adequate 0
performance 0
attainable 0
with 0
a 0
tolerable 0
pilot 0
workload 0
? 0
Does 0
the 0
aircraft B-asset
run 0
in 0
the 0
direction 0
, 0

are 0
there 0
any 0
tendency 0
to 0
steer 0
left 0
or 0
right 0
? 0
Does 0
the 0
pilot 0
need 0
to 0
correct 0
the 0
movements 0
? 0
If 0
the 0
aircraft B-asset
could 0
maintain 0
the 0
direction 0
, 0

move 0
to 0
the 0
next 0
; 0
â(0
Is 0
it 0
satisfactory 0
without 0
improvement 0
? 0
If 0
yes 0
, 0

see 0
, 0

how 0
many 0
pilot 0
compensations 0
is 0
needed 0
to 0
maintain 0
the 0
centreline 0
. 0

Scale 0
it 0
between 0
1 0
â(□ 0
3 0
8 0
. 0

Workload 0
assessment 0
(0
if 0
necessary 0
) 0
Normally 0
, 0

workload 0
assessment 0
is 0
not 0
a 0
part 0
of 0
the 0
certification 0
of 0
a 0
Light 0
Sport 0
Airplane B-asset
. 0

Although 0
, 0

when 0
the 0
applicant 0
intends 0
to 0
use 0
special 0
conditions 0
(0
e 0
. 0

g 0
. 0

Night 0
VFR 0
) 0
or 0
intends 0
to 0
use 0
special 0
equipment 0
, 0

the 0
pilot 0
workload 0
should 0
be 0
assessed 0
. 0

Assessment 0
methods 0
: 0
There 0
are 0
many 0
workload 0
assessment 0
techniques 0
, 0

a 0
few 0
example 0
is 0
shown 0
. 0

A 0
. 0

NASA 0
Task 0
Load 0
Index 0
(0
TLX 0
) 0
: 0
http 0
: 0
/ 0
/ 0
humansystems 0
. 0

arc 0
. 0

nasa 0
. 0

gov 0
/ 0
groups 0
/ 0
tlx 0
/ 0
B 0
. 0

Bedford 0
rating 0
scale 0
: 0
See 0
para 0
0 0
for 0
â(0
best 0
practices 0
â(0
C 0
. 0

Heart 0
- 0
rate 0
variability 0
examination 0
; 0
see 0
articles 0
and 0
papers 0
about 0
it 0
: 0
[0
1 0
] 0
M 0
. 0

H 0
. 0

Asyali 0
, 0

Discrimination 0
Power 0
of 0
Long 0
- 0
Term 0
Heart 0
Rate 0
Variability 0
Measures 0
, 0

Proceedings 0
of 0
the 0

25th 0
Annual 0
International 0
Conference 0
of 0
the 0
IEEE 0
Engineering 0
in 0
Medicine 0
and 0
Biology 0
Society 0
, 0

pp 0
. 0

200 0
â(0
203 0
, 0

CancÃn 0
, 0

MÃ©xico 0
, 0

September 0
17 0
â(0
21 0
, 0

2003 0
. 0

[0
2 0
Bansevicius 0
D 0
, 0

Westgaard 0
RH 0
, 0

Jensen 0
C 0
, 0

Mental 0
Stress 0
of 0
Long 0
Duration 0
: 0
EMG 0
Activity 0
, 0

Perceived 0

Tension 0
, 0

Fatigue 0
, 0

and 0
Pain 0
Development 0
in 0
Pain 0
- 0
Free 0
Subjects 0
, 0

Medline 0
, 0

Headache 0
, 0

Volume 0
37 0
, 0

Issue 0
8 0
, 0

pp 0
. 0

499 0
â(□ 0
510 0
, 0

1997 0
. 0

[0
3 0
] 0
L 0
. 0

IzsÃ³ 0
, 0

Developing 0
Evaluation 0
Methodologies 0
for 0
Human 0
- 0
Computer 0
Interaction 0
(0
INTERFACE 0
) 0
, 0

Delft 0

University 0
Press 0
, 0

2001 0
. 0

NOTE 0
: 0
for 0
method 0
 $\hat{a}(\square$ 0
C 0
 $\hat{a}(\square$ 0
, 0

proper 0
crew 0
(0
aviation 0
psychologist 0
) 0
and 0
equipment 0
(0
ECG 0
) 0
is 0
essential 0
. 0

9 0
. 0

Post 0
flight 0
data 0
processing 0
This 0
section 0
should 0
define 0
how 0
the 0
data 0
are 0
post 0
processed 0
. 0

For 0
examples 0
: 0
 $\hat{a}(\square$ 0
Airspeed B-parameter
correction 0
method 0
(0
for 0
errors 0
) 0
 $\hat{a}(\square$ 0
Engine B-parameter
power I-parameter

corrections 0
to 0
ISA 0
(0
for 0
performance 0
calculations 0
 $\hat{a}_{\square}$ 0
air B-parameter
temperature I-parameter
affects 0
density 0
what 0
affects 0
power B-parameter
 $\hat{a}_{\square}$ 0
a 0
brief 0
method 0
how 0
to 0
do 0
it 0
) 0
 $\hat{a}_{\square}$ 0
Temperature B-parameter
and 0
altitude B-parameter
graph 0
(0
for 0
density 0
altitude B-parameter
and 0
ISA 0
calculations 0
) 0
10 0
. 0

Safety 0
management 0
/ 0
risk 0
assessment 0
This 0
section 0
should 0
explain 0
how 0
the 0
safety 0
of 0
the 0
flight 0
is 0
managed 0
. 0

In 0
this 0
case 0
, 0

the 0
Appendices 0
C 0
and 0
D 0
of 0
FAA 0
Order 0
4040 0
. 0

26B 0
have 0
been 0
followed 0
. 0

Further 0
information 0
on 0
Risk 0
Management 0
can 0
also 0
be 0
found 0
in 0
various 0
sources 0
, 0

for 0
example 0
, 0

in 0
the 0
EHST 0
SMS 0
Toolkit 0
. 0

Identify 0
a 0
person 0
responsible 0
of 0
the 0
safety 0
:
it 0
is 0
advised 0
to 0
identify 0
a 0
â(0
safety 0
manager 0
â(0
, 0

that 0
will 0

be 0
responsible 0
over 0
the 0
â€œ 0
safe 0
â€œ 0
execution 0
of 0
the 0
whole 0
flight 0
test 0
campaign 0
through 0
the 0
proper 0
implementation 0
of 0
the 0
established 0
procedures 0
. 0

Identify 0
the 0
test 0
technique 0
involved 0
:
Generally 0
,

the 0
risk 0
associated 0
with 0
a 0
specific 0
flight 0
test 0
,

is 0
dependent 0
,

among 0
others 0
,

on 0
the 0
specific 0
flying 0
test 0
techniques 0
. 0

However 0
,

there 0
may 0

be 0
risks 0
associated 0
with 0
flying 0
a 0
test 0
airplane B-asset
that 0
result 0
strictly 0
from 0
the 0
airplane B-asset
â(0
s 0
configuration 0
or 0
the 0
environment 0
into 0
which 0
it 0
is 0
flown 0
and 0
these 0
sources 0
of 0
risk 0
must 0
also 0
be 0
considered 0
. 0

Identify 0
the 0
hazard 0
(0
s 0
) 0
associated 0
with 0
the 0
test 0
technique 0
: 0
Ask 0
â(0
What 0
adverse 0
events 0
might 0
happen 0
when 0
accomplishing 0
this 0
test 0
technique 0
? 0
â(0
Note 0
that 0

one 0
test 0
technique 0
may 0
have 0
several 0
hazards 0
and 0
each 0
should 0
be 0
addressed 0
(0
e 0
. 0

g 0
. 0

, 0

another 0
hazard 0
with 0
this 0
test 0
technique 0
would 0
be 0
engine B-system
failure 0
caused 0
by 0
inlet 0
distortion 0
, 0

or 0
fuel 0
starvation 0
, 0

or 0
the 0
aircraft B-asset
may 0
enter 0
into 0
spin 0
during 0
a 0
stall 0
characteristic 0
test 0
) 0
. 0

List 0
the 0
cause 0
of 0
each 0
hazard 0
:
0

Ask 0
â(0
Why 0
might 0
the 0
hazard 0
happen 0
? 0
â(0
List 0
the 0
effect 0
of 0
each 0
hazard 0
: 0
Ask 0
â(0
What 0
will 0
be 0
the 0
effect 0
? 0
â(0
These 0
should 0
be 0
related 0
to 0
either 0
injury 0
/ 0
loss 0
of 0
life 0
or 0
damage 0
to 0
aircraft B-asset
/ 0
property 0
. 0

Perform 0
a 0
subjective 0
risk 0
assessment 0
by 0
: 0
(0
1 0
) 0
Estimating 0
the 0
probability 0
of 0
each 0
hazard 0
occurring 0
. 0

Defined 0

as 0
improbable 0
, 0

remote 0
, 0

occasional 0
, 0

probable 0
, 0

or 0
frequent 0
. 0

(0
2 0
) 0
Estimating 0
the 0
severity 0
of 0
each 0
hazard 0
, 0

if 0
it 0
occurs 0
. 0

Defined 0
as 0
no 0
safety 0
effect 0
, 0

minor 0
, 0

major 0
, 0

hazardous 0
, 0

or 0
catastrophic 0
. 0

(0
3 0
) 0
Defining 0
the 0
risk 0
of 0
each 0
hazard 0
as 0
a 0

combination 0
of 0
the 0
probability 0
and 0
severity 0
. 0

Defined 0
as 0
low 0
, 0

medium 0
, 0

high 0
, 0

or 0
avoid 0
. 0

Describe 0
the 0
steps 0
for 0
Mitigation 0
of 0
causes 0
for 0
each 0
hazard 0
:
Develop 0
controls 0
that 0
mitigate 0
all 0
risks 0
to 0
an 0
acceptable 0
level 0
. 0

Mitigations 0
are 0
actions 0
to 0
minimize 0
, 0

understand 0
, 0

prepare 0
or 0
respond 0
to 0
causes 0
of 0
the 0
hazards 0

. 0

They 0
can 0
be 0
in 0
the 0
form 0
of 0
actions 0
from 0
the 0
flight 0
test 0
crew 0
or 0
information 0
developed 0
by 0
the 0
design 0
engineers 0
(0
e 0
. 0

g 0
. 0

, 0

lab 0
testing 0
, 0

simulator 0
evaluations 0
) 0
. 0

Mitigations 0
will 0
reduce 0
either 0
the 0
probability 0
of 0
the 0
event 0
, 0

or 0
the 0
severity 0
of 0
the 0
effect 0
, 0

or 0
both 0
. 0

Mitigations 0

should 0
be 0
detailed 0
and 0
specific 0
in 0
nature 0
. 0

Describe 0
any 0
Emergency 0
Procedures 0
to 0
accomplish 0
if 0
the 0
hazard 0
occurs 0
, 0

despite 0
mitigation 0
steps 0
. 0

Document 0
and 0
verify 0
the 0
risk 0
assessment 0
: 0
The 0
risk 0
level 0
after 0
mitigation 0
shall 0
be 0
highlighted 0
and 0
classified 0
iaaw 0
. 0

the 0
table 0
below 0
and 0
it 0
shall 0
be 0
independently 0
verified 0
. 0

Table 0
app 0
. 0

1 0
â(0
Summary 0

table 0
for 0
risk 0
assessment 0
Example 0
: 0
Stall 0
characteristics 0
test 0
iaaw 0
. 0

ASTM 0
F2245 0
- 0
12d 0
4 0
. 0

5 0
. 0

7 0
. 0

Because 0
the 0
envelope 0
is 0
not 0
yet 0
fully 0
opened 0
, 0

and 0
the 0
flight 0
characteristics 0
are 0
still 0
not 0
completely 0
determined 0
, 0

the 0
aircraft B-asset
could 0
enter 0
into 0
spin 0
and 0
could 0
not 0
be 0
able 0
to 0
recover 0
. 0

The 0
effect 0
of 0

the 0
risk 0
could 0
be 0
fatal 0
. 0

The 0
severity 0
is 0
class 0
â(0
A 0
â(0
, 0

which 0
means 0
â(0
Destruction 0
of 0
equipment 0
, 0

Fatalities 0
â(0
. 0

The 0
probability 0
of 0
that 0
effect 0
is 0
very 0
low 0
, 0

because 0
the 0
aircraft B-asset
â(0
s 0
behaviour 0
can 0
be 0
modelled 0
, 0

and 0
if 0
the 0
spin 0
occurs 0
, 0

the 0
autorotation 0
could 0
be 0
stopped 0
with 0
proper 0
pilot 0

technique 0
(0
reducing 0
power 0
, 0

using 0
rudder 0
in 0
opposite 0
direction 0
, 0

and 0
pushing 0
the 0
elevator 0
to 0
decrease 0
AoA 0
) 0
. 0

Although 0
, 0

the 0
probability 0
is 0
low 0
, 0

the 0
only 0
action 0
is 0
that 0
the 0
pilot 0
abandons 0
the 0
aircraft B-asset
. 0

If 0
the 0
pilot 0
cannot 0
bail 0
out 0
before 0
a 0
certain 0
altitude B-parameter
, 0

he 0
/ 0
she 0
would 0
not 0
have 0
enough 0
time 0

to 0
jump 0
out 0
and 0
open 0
the 0
parachute 0
. 0

So 0
it 0
â(0
s 0
improbable 0
, 0

but 0
may 0
occur 0
, 0

it 0
â(0
s 0
classification 0
is 0
â(0
3 0
â(0
according 0
to 0
Table 0
app 0
. 0

3 0
. 0

The 0
overall 0
risk 0
classification 0
is 0
3A 0
. 0

The 0
colour 0
of 0
the 0
3A 0
risk 0
is 0
red 0
, 0

what 0
means 0
unacceptable 0
. 0

(0
See 0
Table 0

app 0
. 0

4 0
) 0
Because 0
the 0
kind 0
of 0
risk 0
is 0
unacceptable 0
, 0

it 0
must 0
be 0
mitigated 0
. 0

â(0
The 0
stall 0
test 0
would 0
be 0
performed 0
at 0
a 0
minimal 0
safe 0
altitude B-parameter
(0
to 0
get 0
enough 0
time 0
to 0
bailout 0
, 0

if 0
the 0
spin 0
is 0
unrecoverable 0
) 0
for 0
example 0
at 0
least 0
at 0
6000 0
feet B-measurement
(0
1800 0
m B-measurement
) 0
above 0
ground 0
level 0
â(0
To 0
make 0

the 0
bailout 0
easier 0
, 0

a 0
canopy 0
or 0
door B-system
jettison I-system
system I-system
may 0
be 0
installed 0
. 0

â(0
Ultimately 0
also 0
the 0
aeroplane B-asset
can 0
be 0
modified 0
, 0

adding 0
a 0
test 0
spin 0
- 0
chute 0
or 0
a 0
BRS 0
(0
for 0
such 0
flights 0
the 0
crew 0
must 0
anyway 0
wear 0
parachutes 0
) 0
. 0

â(0
Emergency 0
procedures 0
shall 0
be 0
established 0
, 0

e 0
. 0

g 0
. 0

in 0
this 0

case 0
, 0

if 0
recovery 0
attempts 0
are 0
unsuccessful 0
until 0
a 0
certain 0
altitude B-parameter
(0
e 0
. 0

g 0
. 0

1500 0
feet B-measurement
AGL 0
) 0
, 0

the 0
aircraft B-asset
must 0
be 0
abandoned 0
. 0

After 0
the 0
risk 0
management 0
, 0

the 0
situation 0
is 0
the 0
following 0
:
â(0
The 0
aircraft B-asset
still 0
could 0
enter 0
into 0
an 0
inadvertent 0
and 0
unrecoverable 0
spin 0
. 0

The 0
possibility 0
remains 0
3 0
â(0
The 0

risk 0
for 0
the 0
flight 0
crew 0
is 0
lower 0
, 0

because 0
they 0
have 0
chance 0
to 0
save 0
their 0
lives 0
(0
wearing 0
parachutes 0
, 0

abandoning 0
the 0
aircraft 0
is 0
easier 0
with 0
the 0
jettisonable 0
canopy 0
) 0
, 0

therefore 0
the 0
only 0
outcome 0
of 0
a 0
spin 0
accident 0
would 0
be 0
the 0
loss 0
of 0
the 0
aircraft B-asset
(0
the 0
flights 0
were 0
planned 0
in 0
uninhabited 0
areas 0
â(0
see 0
point 0
11 0
â(0
therefore 0
the 0

only 0
endangered 0
people 0
are 0
the 0
crew 0
on 0
board 0
) 0
. 0

The 0
severity 0
will 0
be 0
D 0
(0
loss 0
of 0
the 0
aircraft 0
, 0

injuries 0
during 0
bailout 0
â(0
applying 0
emergency 0
procedures 0
) 0
â(0
The 0
overall 0
risk 0
decreases 0
to 0
3D 0
, 0

which 0
is 0
yellow 0
- 0
coloured 0
. 0

It 0
will 0
be 0
acceptable 0
after 0
the 0
review 0
of 0
the 0
operations 0
Table 0
app 0
. 0

2 0
â(0
Example 0

of 0
use 0
of 0
risk 0
mitigation 0
table 0
Table 0
app 0
. 0

3 0
â(0
Risk 0
classification 0
table 0
Legend 0
of 0
risk 0
(0
and 0
colouring 0
) 0
: 0
Table 0
app 0
. 0

4 0
â(0
Acceptability 0
of 0
risks 0
In 0
the 0
probability 0
table 0
, 0

you 0
can 0
assign 0
a 0
value 0
from 0
1 0
to 0
5 0
to 0
the 0
probability 0
of 0
each 0
hazard 0
. 0

Table 0
app 0
. 0

5 0
â(0
Probability 0
Severities 0
could 0

be 0
classified 0
in 0
the 0
table 0
below 0
: 0
Table 0
app 0
. 0

6 0
â(0
Severity 0
classification 0
11 0
. 0

Configuration 0
management 0
The 0
prototype 0
will 0
have 0
to 0
be 0
released 0
with 0
a 0
statement 0
of 0
conformity 0
to 0
the 0
design 0
configuration 0
identified 0
by 0
the 0
design 0
organisation 0
. 0

The 0
conformity 0
statement 0
will 0
be 0
(0
normally 0
) 0
provided 0
by 0
the 0
Production 0
Organisation 0
. 0

After 0
this 0
step 0
, 0

the 0

airplane B-asset
will 0
be 0
fully 0
managed 0
by 0
the 0
Design 0
Organization 0
. 0

The 0
Maintenance 0
and 0
calibration 0
of 0
the 0
equipment 0
will 0
be 0
performed 0
by 0
Maintenance 0
personnel 0
identified 0
and 0
accepted 0
by 0
the 0
design 0
organisation 0
. 0

The 0
Design 0
organization 0
is 0
responsible 0
to 0
maintain 0
a 0
current 0
list 0
of 0
scheduled 0
maintenance 0
tasks 0
and 0
calibration 0
planning 0
for 0
each 0
test B-component
equipment I-component
and 0
to 0
arrange 0
for 0
timely 0
performance 0
of 0
those 0
tasks 0
. 0

Each 0
modification 0
in 0
the 0
aircraft B-asset
configuration 0
shall 0
be 0
assessed 0
against 0
: 0
â(0
The 0
safety 0
of 0
the 0
flights 0
â(0
The 0
validity 0
of 0
the 0
approved 0
flight 0
conditions 0
; 0
â(0
The 0
already 0
executed 0
Flight 0
tests 0
(0
example 0
: 0
installation 0
of 0
vertical B-component
fin I-component
might 0
give 0
results 0
which 0
cannot 0
be 0
compared 0
with 0
already 0
executed 0
flights 0
) 0
; 0
â(0
The 0
already 0
executed 0
certification 0
activities 0
(0
example 0
: 0
reduction 0
of 0

the 0
size 0
a 0
control 0
surface 0
might 0
invalid 0
the 0
flutter 0
analysis 0
) 0
Each 0
modification 0
in 0
the 0
aircraft B-asset
configuration 0
shall 0
be 0
logged 0
into 0
the 0
technical 0
log 0
, 0

and 0
each 0
test 0
card 0
must 0
be 0
signed 0
by 0
the 0
personnel 0
. 0

An 0
example 0
for 0
the 0
flight 0
test 0
card 0
layout 0
can 0
be 0
found 0
in 0
the 0
paragraph 0
14 0
of 0
this 0
appendix 0
. 0

At 0
the 0
moment 0
of 0
issuing 0
of 0

this 0
document 0
, 0

the 0
prototype 0
aircraft 0
is 0
conforming 0
to 0
the 0
type 0
design 0
and 0
the 0
equipment 0
corresponds 0
to 0
the 0
designated 0
equipment 0
list 0
items 0
, 0

except 0
: 0
â(0
A 0
spare 0
set 0
of 0
backup B-module
instrumentation I-module
for 0
the 0
EFIS B-system
â(0
Separate 0
transponder B-module
instead 0
of 0
the 0
remote 0
- 0
controlled 0
one 0
â(0
The 0
baggage B-module
compartment I-module
is 0
modified 0
to 0
accommodate 0
the 0
specific 0
test B-module
instrumentation I-module
. 0

(0
Installed 0
instrument 0

racks 0
, 0

removed 0
carpets 0
, 0

etc 0
) 0
12 0
. 0

Maintenance 0
procedures 0
(0
arrangements 0
with 0
maintenance 0
organizations 0
) 0
Throughout 0
the 0
whole 0
flight 0
test 0
campaign 0
the 0
aircraft B-asset
â(0
s 0
maintenance 0
tasks 0
will 0
be 0
performed 0
in 0
accordance 0
with 0
the 0
provisional 0
version 0
of 0
the 0
AMM 0
(0
iaaw 0
. 0

CS 0
- 0
LSA 0
. 0

30 0
â(0
ASTM 0
F2483 0
- 0
12 0
) 0
. 0

Additional 0
inspections 0

will 0
be 0
carried 0
out 0
according 0
to 0
the 0
flight 0
test 0
pilot 0
â(0
s 0
observations 0
and 0
remarks 0
noted 0
into 0
each 0
flight 0
report 0
. 0

Any 0
maintenance 0
task 0
on 0
the 0
prototype 0
will 0
be 0
performed 0
by 0
qualified 0
personnel 0
, 0

holding 0
a 0
proper 0
authorization 0
. 0

Certifying 0
Staff 0
member 0
must 0
held 0
a 0
Part 0
- 0
66 0
(0
Annex 0
III 0
. 0

Of 0
1321 0
/ 0
2014 0
EC 0
) 0
licence 0
. 0

The 0
aircraft B-asset
â(0
s 0
technical 0
log 0
will 0
be 0
kept 0
and 0
updated 0
as 0
soon 0
as 0
any 0
kind 0
of 0
maintenance 0
are 0
carried 0
out 0
. 0

Modifications 0
in 0
configuration 0
will 0
be 0
recorded 0
the 0
regarding 0
section 0
of 0
the 0
following 0
flight 0
test 0
order 0
, 0

and 0
the 0
responsible 0
person 0
for 0
the 0
design 0
must 0
declare 0
the 0
aircraft B-asset
is 0
airworthy 0
before 0
each 0
flight 0
during 0
the 0
pre 0
- 0
flight 0
briefing 0
by 0

signing 0
the 0
appropriate 0
field 0
on 0
a 0
given 0
Flight 0
Test 0
Order 0
. 0

The 0
maintenance 0
staff 0
preparing 0
the 0
aircraft B-asset
for 0
test 0
is 0
responsible 0
to 0
check 0
the 0
calibration B-parameter
status I-parameter
of 0
each 0
installed 0
test 0
equipment 0
/ 0
test 0
instrumentation 0
and 0
record 0
the 0
respective 0
calibration B-parameter
expiry I-parameter
date I-parameter
in 0
the 0
referring 0
technical 0
log 0
. 0

The 0
earliest 0
expiry B-parameter
date I-parameter
of 0
all 0
installed 0
test B-component
equipment I-component
shall 0
be 0
referred 0
to 0
in 0
the 0

aircraft B-asset

â(0

s 0

conformity 0

statement 0

(0

â(0

Calibration 0

status 0

of 0

all 0

FTE 0

/ 0

FTI 0

has 0

been 0

checked 0

and 0

will 0

not 0

expire 0

before 0

[0

date 0

] 0

â(0

) 0

. 0

13 0

. 0

Technical 0

log 0

example 0

14 0

. 0

Example 0

for 0

flight 0

test 0

card 0

preparation 0

This 0

card 0

should 0

be 0

designed 0

in 0

a 0

DIN 0

A5 0

size 0

, 0

to 0

get 0

it 0

fit 0

to 0

the 0

knee 0

block 0

. 0

The 0
test 0
point 0
in 0
this 0
example 0
, 0

the 0
para 0
. 0

4 0
. 0

5 0
. 0

3 0
. 0

1 0
 $\hat{a}_{\square}$ 0
Directional B-parameter
and 0
Lateral B-control
Control I-control
 $\hat{a}_{\square}$ 0
from 0
ASTM 0
F2245 0
- 0
12d 0
4 0
. 0

5 0
. 0

3 0
. 0

1 0
. 0

Requirement 0
: 0
4 0
. 0

5 0
. 0

3 0
. 0

1 0
It 0
must 0
be 0
possible 0
to 0

reverse 0
a 0
steady 0
30 0
Â° B-measurement
banked 0
coordinated 0
turn 0
through 0
an 0
angle 0
of 0
60 0
Â° B-measurement
, 0

from 0
both 0
directions 0
: 0
(0
1 0
) 0
within 0
5 0
s B-measurement
from 0
initiation 0
of 0
roll 0
reversal 0
, 0

with 0
the 0
airplane B-asset
trimmed 0
as 0
closely 0
as 0
possible 0
to 0
1 0
. 0

3 0
VS1 0
, 0

flaps 0
in 0
the 0
take 0
- 0
off 0
position 0
, 0

and 0
maximum B-parameter
take I-parameter
- I-parameter
off I-parameter
power I-parameter

; 0
and 0
(0
2 0
) 0
within 0
4 0
s B-measurement
from 0
initiation 0
of 0
roll 0
reversal 0
, 0

with 0
the 0
airplane B-asset
trimmed 0
as 0
closely 0
as 0
possible 0
to 0
1 0
. 0

3 0
VSO 0
, 0

flaps B-module
fully 0
extended 0
, 0

and 0
engine B-system
at 0
idle 0
. 0

One 0
flight 0
will 0
be 0
performed 0
, 0

with 0
two 0
tests 0
for 0
each 0
points 0
. 0

The 0
aircraft B-asset
â_□ 0
s 0
stall B-parameter
speeds I-parameter
are 0

the 0
following 0
: 0
Instrumentation 0
and 0
configuration 0
: 0
see 0
0
15 0
of 0
flight 0
test 0
sequence 0
. 0

CG 0
setting 0
: 0
controllability 0
must 0
be 0
examined 0
at 0
forward 0
CG 0
position 0
, 0

therefore 0
the 0
CG 0
will 0
be 0
at 0
FWD 0
end 0
. 0

Configuration 0
: 0
a 0
stopwatch B-component
must 0
be 0
on 0
board 0
to 0
measure 0
reversal B-parameter
time I-parameter
, 0

in 0
this 0
case 0
I3 0
was 0
used 0
. 0

Instrumentation 0
: 0
Conventional 0

instrumentation 0
, 0

the 0
pitot 0
- 0
boom 0
is 0
not 0
necessary 0
due 0
to 0
the 0
low 0
airspeeds B-parameter
VMAX 0
90 0
 $\hat{\alpha}$ 0
100 0
knots B-measurement
, 0

and 0
the 0
flight 0
envelope 0
has 0
been 0
already 0
opened 0
until 0
130 0
knots B-measurement
. 0

Limitations 0
: 0
as 0
per 0
 $\hat{\alpha}$ 0
Phase 0
1b 0
 $\hat{\alpha}$ 0
. 0

See 0
para 0
11 0
. 0

a 0
. 0

For 0
risk 0
assessment 0
, 0

follow 0
the 0
method 0
from 0
para 0
. 0

10 0
from 0
Appendix 0
. 0

Flight 0
profile 0
: 0
The 0
altitude B-parameter
was 0
shown 0
in 0
QFE 0
. 0

The 0
airfield 0
â(0
s 0
elevation 0
is 0
310 0
feet B-measurement
(0
see 0
para 0
. 0

8 0
â(0
Facilities 0
â(0
) 0
Estimated 0
time 0
of 0
test 0
task 0
: 0
30 0
minutes B-measurement
. 0

Description 0
: 0
â(0
In 0
the 0
first 0
two 0
minutes B-measurement
, 0

until 0
500 0
feet B-measurement
there 0
is 0
a 0
climb 0
with 0
small 0

gradient 0
, 0

and 0
performing 0
the 0
after 0
take 0
- 0
off 0
checklist 0
. 0

â(0
Climbing 0
to 0
4000 0
feet B-measurement
will 0
last 0
around 0
6 0
minutes B-measurement
(0
estimated 0
) 0
â(0
Between 0
8 0
â(0
12 0
minutes B-measurement
from 0
take 0
- 0
off 0
, 0

steps 0
6 0
â(0
13 0
can 0
be 0
performed 0
(0
estimated 0
) 0
â(0
Between 0
12 0
â(0
15 0
minutes B-measurement
from 0
take 0
- 0
off 0
, 0

steps 0
14 0
â(0
22 0

can 0
be 0
performed 0
(0
estimated 0
) 0
â(0
In 0
the 0
remaining 0
time 0
: 0
descent 0
with 0
avg 0
. 0

250 0
feet B-measurement
/ I-measurement
min I-measurement
and 0
perform 0
normal 0
landing 0
. 0

The 0
test 0
cards 0
can 0
be 0
used 0
to 0
prepare 0
the 0
flight 0
test 0
order 0
. 0

The 0
test 0
order 0
will 0
define 0
the 0
sequence 0
of 0
test 0
points 0
. 0

After 0
the 0
flight 0
, 0

the 0
filled 0
test 0
cards 0
can 0
be 0

used 0
for 0
establishing 0
the 0
test 0
report 0
. 0

NOTE 0
:
The 0
level 0
of 0
explication 0
should 0
be 0
as 0
detailed 0
as 0
practical 0
. 0

An 0
example 0
is 0
shown 0
here 0
, 0

NOTE 0
:
This 0
task 0
is 0
planned 0
as 0
an 0
individual 0
flight 0
. 0

However 0
, 0

the 0
applicant 0
may 0
choose 0
to 0
combine 0
flights 0
. 0

(0
If 0
fuel 0
allows 0
it 0
. 0

) 0
For 0
example 0
, 0

the 0
task 0
nr 0
. 0

13 0
â(0
14 0
â(0
15 0
from 0
the 0
test 0
timeline 0
(0
see 0
para 0
. 0

c 0
) 0
may 0
be 0
combined 0
. 0

In 0
this 0
case 0
, 0

all 0
the 0
instrumentation 0
for 0
the 0
other 0
tasks 0
should 0
be 0
installed 0
to 0
the 0
aircraft B-asset
. 0

Task 0
nr 0
. 0

13 0
and 0
13 0
/ 0
A 0
could 0
be 0
interchanged 0
, 0

because 0
these 0
flights 0

can 0
be 0
performed 0
with 0
the 0
same 0
way 0
, 0

although 0
the 0
CG 0
position 0
is 0
not 0
the 0
same 0
. 0

IMPORTANT 0
:
each 0
test 0
point 0
from 0
the 0
test 0
order 0
must 0
have 0
separate 0
test 0
card 0
, 0

to 0
avoid 0
confusion 0
. 0

Appendix 0
2 0
â 0
Flight 0
Conditions 0
and 0
Permit 0
to 0
Fly 0
A 0
valid 0
Permit 0
to 0
Fly 0
shall 0
be 0
held 0
in 0
accordance 0
with 0
Subpart 0
P 0
of 0
EU 0

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Application 0
for 0
associated 0
Flight 0
Conditions 0
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shall 0
be 0
submitted 0
to 0
EASA 0
) 0
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The 0
application 0
for 0
Permit 0
to 0
Fly 0
shall 0
be 0
submitted 0
to 0
the 0
Competent 0
Authority 0
after 0
the 0
Flight 0
Conditions 0
are 0
approved 0
by 0
EASA 0
. 0

See 0
: 0
http 0
: 0
/ 0
/ 0
easa 0
. 0

europa 0
. 0

eu 0
/ 0
easa 0
- 0
and 0
- 0
you 0
/ 0
aviation 0
- 0
domain 0
/ 0

aircraft 0
- 0
products 0
/ 0
permit 0
- 0
fly 0
http 0
: 0
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easa 0
. 0

europa 0
. 0

eu 0
/ 0
document 0
- 0
library 0
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application 0
- 0
forms 0
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focert00037 0
Application 0
form 0
direct 0
link 0
: 0
http 0
: 0
/ 0
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easa 0
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europa 0
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eu 0
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system 0
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files 0
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dfu 0
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FO 0
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CERT 0
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20Application 0
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20for 0
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20AFC 0
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20for 0
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20a 0
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20permit 0
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20to 0
% 0
20fly 0
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docx 0
Application 0
should 0
include 0
the 0
Flight 0
Test 0
Program 0
, 0

the 0
proposed 0
flight 0
conditions 0
, 0

and 0
a 0
declaration 0
that 0
the 0
aircraft B-asset
is 0
capable 0
for 0
safe 0
flight 0
under 0
the 0
restrictions 0
iaaw 0
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b 0
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Appendix 0
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Best 0

Practices 0
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Flight 0
Test 0
Safety 0
Committee 0
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http 0
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flighttestsafety 0
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org 0
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best 0
- 0
practices 0
: 0
NOTE 0
: 0
The 0
Flight 0
Test 0
Safety 0
Committee 0
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FTSC 0
) 0
is 0
an 0
international 0
non 0
- 0
profit 0
organization 0
formed 0
jointly 0
in 0
November 0
1994 0
by 0
members 0
of 0
the 0
Society 0
of 0
Experimental 0
Test 0
Pilots 0
(0
SETP 0
) 0
, 0

the 0
Society 0
of 0
Flight 0
Test 0
Engineers 0
(0
SFTE 0

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and 0
the 0
American 0
Institute 0
of 0
Aeronautics 0
and 0
Astronautics 0
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AIAA 0
) 0
. 0

if 0
FAA 0
Order 0
4040 0
. 0

26B 0
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as 0
amended 0
) 0
Aircraft B-asset
Certification 0
Service 0
Flight 0
Test 0
Risk 0
Management 0
Program 0
: 0
http 0
: 0
/ 0
/ 0
www 0
. 0

faa 0
. 0

gov 0
/ 0
documentLibrary 0
/ 0
media 0
/ 0
Order 0
/ 0
4040 0
. 0

26B 0
. 0

pdf 0
if 0
Peter 0
W 0
. 0

Merlin 0
, 0

Gregg 0
A 0
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Bendrick 0
, 0

and 0
Dwight 0
A 0
. 0

Holland 0
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Breaking 0
the 0
Mishap 0
Chain 0
(0
NASA 0
eBook 0
) 0
http 0
: 0
/ 0
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www 0
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nasa 0
. 0

gov 0
/ 0
connect 0
/ 0
ebooks 0
/ 0
break 0
_ 0
mishap 0
_ 0
chain 0
_ 0
detail 0
. 0

html 0
NOTE 0
: 0
This 0
linked 0
eBook 0
contains 0
a 0
collection 0
of 0
case 0
studies 0
of 0
mishaps 0

involving 0
experimental 0
aircraft B-asset
, 0

aerospace B-asset
vehicles 0
, 0

and 0
spacecraft 0
in 0
which 0
human 0
factors 0
played 0
a 0
significant 0
role 0
. 0

In 0
all 0
cases 0
the 0
engineers 0
involved 0
, 0

the 0
leaders 0
and 0
managers 0
, 0

and 0
the 0
operators 0
(0
i 0
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e 0
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pilots 0
and 0
astronauts 0
) 0
were 0
supremely 0
qualified 0
and 0
by 0
all 0
accounts 0
superior 0
performers 0
. 0

Such 0
accidents 0

and 0
incidents 0
rarely 0
resulted 0
from 0
a 0
single 0
cause 0
but 0
were 0
the 0
outcome 0
of 0
a 0
chain 0
of 0
events 0
in 0
which 0
altering 0
at 0
least 0
one 0
element 0
might 0
have 0
prevented 0
disaster 0
. 0

As 0
such 0
, 0

this 0
work 0
is 0
most 0
certainly 0
not 0
an 0
anthology 0
of 0
blame 0
. 0

It 0
is 0
offered 0
as 0
a 0
learning 0
tool 0
so 0
that 0
future 0
organizations 0
, 0

programs 0
, 0

and 0
projects 0

may 0
not 0
be 0
destined 0
to 0
repeat 0
the 0
mistakes 0
of 0
the 0
past 0
. 0

These 0
lessons 0
were 0
learned 0
at 0
high 0
material 0
and 0
personal 0
costs 0
and 0
should 0
not 0
be 0
lost 0
to 0
the 0
pages 0
of 0
history 0
. 0

if 0
Bedford 0
Workload 0
Scale 0
(0
FAA 0
) 0
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http 0
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/
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www 0
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hf 0
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faa 0
. 0

gov 0
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workbenchtools 0
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default 0
. 0

aspx 0

? 0
rPage 0
= 0
Tooldetails 0
& 0
subCatId 0
= 0
11 0
& 0
toolID 0
= 0
316 0
i{. 0
Bedford 0
Workload 0
Scale 0
(0
eurocontrol 0
) 0
: 0
https 0
: 0
/ 0
/ 0
www 0
. 0

eurocontrol 0
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int 0
/ 0
ehp 0
/ 0
? 0
q 0
= 0
node 0
/ 0
1643 0

{ 0
" 0
extra 0
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name 0
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design 0
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10567 0
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3f7f9a3614c449e6b049c26bc57d2e7b 0
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s 0
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parameters 0
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[ 0
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parameter 0
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name 0
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Arm B-system
_ 0
2922 0
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Length B-parameter
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value 0
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438 0
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71318291081235 0
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properties 0
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Arm B-system
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2922 0
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component 0
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property 0
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Length B-parameter
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optimization 0
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arm B-system
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length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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parameter 0
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name 0
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Arm B-system
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Length B-parameter
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Arm B-system
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2924 0
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Length B-parameter
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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component 0
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Arm B-system
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Length B-parameter
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Arm B-system
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Length B-parameter
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optimization 0
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arm B-system
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length B-parameter
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parameter 0
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name 0
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Arm B-system
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2926 0
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Length B-parameter
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value 0
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143 0
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component 0
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properties 0
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component 0
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Arm B-system
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component 0
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Length B-parameter
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optimization 0
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arm B-system
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length B-parameter
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parameter 0
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name 0
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BODY B-system
_ 0
ROT B-parameter
_ I-parameter
ANGLE I-parameter
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value 0
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properties 0
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component 0
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name 0
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Fuselage B-system
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```

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component 0
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property 0
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BOTTOM 0
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CONNECTOR 0
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ROTATION 0
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component 0
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name 0
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Orient B-module
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component 0
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property 0
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Z B-parameter
_ I-parameter
ANGLE I-parameter
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{ 0
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parameter 0
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name 0
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Bend B-module
_ 0
1 0
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CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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value 0
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component 0
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properties 0
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name 0
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Bend B-module
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component 0
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property 0
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ANGHORZCONN 0
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parameter 0
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name 0
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Bend B-module
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CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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value 0
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Bend B-module
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ANGHORZCONN 0
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CargoCaseRotation B-parameter
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value 0
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CargoCase B-module
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property 0
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Rotation B-parameter
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CargoMass B-parameter
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component 0
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component 0
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Cargo B-system
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component 0
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property 0
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WEIGHT B-parameter
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parameter 0
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name 0
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ControlChannelAuto B-parameter
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component 0
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properties 0
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component 0
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name 0
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Motor B-system
_ 0
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component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
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component 0
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name 0
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Motor B-system
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component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
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component 0
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name 0
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Motor B-system
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component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
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component 0
_ 0
name 0
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Motor B-system
_ 0
4 0
" 0
, 0
```

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" 0
component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
" 0
} 0
, 0
```

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component 0
_ 0
name 0
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Motor B-system
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5 0
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, 0
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" 0
component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
" 0
} 0
, 0
```

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component 0
_ 0
name 0
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Motor B-system
_ 0
6 0
" 0
, 0
```

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" 0
component 0
_ 0
property 0
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: 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
" 0
} 0
, 0
```

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{ 0
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component 0
_ 0
name 0
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Motor B-system
_ 0
7 0
" 0
, 0
```

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" 0
component 0
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property 0
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: 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
" 0
} 0
, 0
```

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component 0
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name 0
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Motor B-system
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8 0
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" 0
component 0
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property 0
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CONTROL B-parameter
_ I-parameter
CHANNEL I-parameter
" 0
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} 0
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{ 0
" 0
parameter 0
_ 0
name 0
" 0
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" 0
FUSELAGE B-system
_ 0
AUTOPILOT 0
_ 0
X 0
_ 0
OFFSET B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
0 0
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" 0
component 0
_ 0
properties 0

```



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component 0
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name 0
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Fuselage B-system
_ 0
1 0
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" 0
component 0
_ 0
property 0
" 0
: 0
" 0
FLOOR B-module
_ I-module
CONNECTOR I-module
_ 0
4 0
_ 0
DISP B-parameter
_ I-parameter
LENGTH I-parameter
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" 0
optimization 0
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" 0
fuselage B-system
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sensor B-module
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parameter 0
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name 0
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FUSELAGE B-system
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AUTOPILOT 0
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OFFSET B-parameter
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value 0
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component 0
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Fuselage B-system
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
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fuselage B-system
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sensor B-module
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FUSELAGE B-system
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BATTERY B-module
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OFFSET B-parameter
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Fuselage B-system
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component 0
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
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optimization 0
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fuselage B-system
_ 0
battery B-module
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x 0
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} 0
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parameter 0
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name 0
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FUSELAGE B-system
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BATTERY B-module
_ 0
Y 0
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OFFSET B-parameter
" 0
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value 0
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component 0
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Fuselage B-system
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FLOOR B-module
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CONNECTOR I-module
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
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battery B-module
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FUSELAGE B-system
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CURRENT B-parameter
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OFFSET B-parameter
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
" 0
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optimization 0
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fuselage B-system
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sensor B-module
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parameter 0
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name 0
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FUSELAGE B-system
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CURRENT B-parameter
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OFFSET B-parameter
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component 0
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name 0
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Fuselage B-system
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component 0
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property 0
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: 0
" 0
FLOOR B-module
_ I-module
CONNECTOR I-module
_ 0
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
" 0
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optimization 0
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fuselage B-system
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sensor B-module
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parameter 0
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name 0
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FUSELAGE B-system
_ 0
FLOOR B-parameter
_ I-parameter
HEIGHT I-parameter
" 0
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value 0
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75 0
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component 0
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properties 0
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Fuselage B-system
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property 0
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FLOOR B-parameter
_ I-parameter
HEIGHT I-parameter
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optimization 0
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fuselage B-system
_ 0
floor B-parameter
_ I-parameter
height I-parameter
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parameter 0
_ 0
name 0
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FUSELAGE B-system
_ 0
GPS B-module
_ 0
X 0
_ 0
OFFSET B-parameter
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value 0
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component 0
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properties 0
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component 0
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name 0
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Fuselage B-system
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component 0
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
" 0
} 0
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optimization 0
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fuselage B-system
_ 0
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sensor B-module
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FUSELAGE B-system
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GPS B-module
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OFFSET B-parameter
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name 0
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Fuselage B-system
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component 0
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
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sensor B-module
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FUSELAGE B-system
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HORZ B-parameter
_ I-parameter
DIAMETER I-parameter
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value 0
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component 0
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properties 0
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Fuselage B-system
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HORZ B-parameter
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DIAMETER I-parameter
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FUSELAGE B-system
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LENGTH B-parameter
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component 0
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properties 0
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LENGTH B-parameter
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optimization 0
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length B-parameter
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parameter 0
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name 0
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FUSELAGE B-system
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RPM B-measurement
_ 0
X 0
_ 0
OFFSET B-parameter
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Fuselage B-system
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component 0
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
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optimization 0
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fuselage B-system
_ 0
sensor B-module
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name 0
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FUSELAGE B-system
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RPM B-measurement
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OFFSET B-parameter
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component 0
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Fuselage B-system
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
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name 0
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FUSELAGE B-system
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VARIO B-module
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OFFSET B-parameter
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Fuselage B-system
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FLOOR B-module
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CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
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sensor B-module
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FUSELAGE B-system
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VARIO B-module
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OFFSET B-parameter
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Fuselage B-system
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component 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
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optimization 0
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fuselage B-system
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sensor B-module
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name 0
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FUSELAGE B-system
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VERT B-parameter
_ I-parameter
DIAMETER I-parameter
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value 0
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Fuselage B-system
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property 0
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VERT B-parameter
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DIAMETER I-parameter
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FUSELAGE B-system
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VOLTAGE B-parameter
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OFFSET B-parameter
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Fuselage B-system
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property 0
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
LENGTH I-parameter
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optimization 0
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fuselage B-system
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sensor B-module
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parameter 0
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name 0
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FUSELAGE B-system
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VOLTAGE B-parameter
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OFFSET B-parameter

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value 0
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Fuselage B-system
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FLOOR B-module
_ I-module
CONNECTOR I-module
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DISP B-parameter
_ I-parameter
WIDTH I-parameter
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fuselage B-system
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sensor B-module
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parameter 0
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Flange B-module
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CLOCK B-parameter
_ I-parameter
ANGLE I-parameter
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value 0
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component 0
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Flange B-module
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component 0

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property 0
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SIDE B-parameter
_ I-parameter
ANGLE I-parameter
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parameter 0
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name 0
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NegPropDir B-parameter
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value 0
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component 0
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properties 0
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component 0
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name 0
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" 0
Propeller B-system
_ 0
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component 0
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property 0
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Direction B-parameter

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" 0
component 0
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name 0
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Propeller B-system

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component 0
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property 0

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Direction B-parameter

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" 0
component 0
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name 0
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Propeller B-system

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component 0
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property 0

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Direction B-parameter

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component 0
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name 0
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Propeller 0
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" 0
component 0
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property 0
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Direction 0
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" 0
component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
" 0
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component 0
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name 0
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Propeller B-system
_ 0
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component 0
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property 0
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Direction B-parameter
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component 0
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name 0
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Propeller B-system
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component 0
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property 0
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Direction B-parameter
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parameter 0
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name 0
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NegPropType B-parameter
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component 0
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properties 0
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component 0
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name 0
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Propeller B-system
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1 0
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component 0
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property 0
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" 0
Prop 0
_ 0
type 0
" 0
} 0
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" 0
component 0
_ 0
name 0
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Propeller B-system
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" 0
component 0
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property 0
" 0
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" 0
Prop 0
_ 0
type 0
" 0
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{ 0
" 0
component 0
_ 0
name 0
" 0
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" 0
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Propeller B-system

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" 0

component 0

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property 0

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Prop 0

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type 0

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component 0

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name 0

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Propeller B-system

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component 0

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property 0

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Prop 0

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type 0

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parameter 0

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name 0

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PosPropDir B-parameter

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value 0

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component 0
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properties 0
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component 0
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name 0
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" 0
Propeller B-system
_ 0
8 0
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" 0
component 0
_ 0
property 0
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" 0
Direction B-parameter
" 0
} 0
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} 0
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{ 0
" 0
parameter 0
_ 0
name 0
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" 0
PosPropType B-parameter
" 0
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" 0
value 0
" 0
: 0
" 0
1 0
" 0
, 0

" 0
```

```
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
```



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component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
Propeller B-system
_ 0
8 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Prop 0
_ 0
type 0
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
```

RotatedArm B-component

_ 0

941 0

_ 0

1 0

_ 0

ROT2 0

" 0

, 0

" 0

value 0

" 0

: 0

" 0

0 0

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" 0

, 0

" 0

component 0

_ 0

properties 0

" 0

: 0

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" 0

component 0

_ 0

name 0

" 0

: 0

" 0

RotatedArm B-component

_ 0

941 0

_ 0

1 0

" 0

, 0

" 0

component 0

_ 0

property 0

" 0

: 0

" 0

END 0

_ 0

ROT 0

" 0

} 0

] 0

} 0

, 0

{ 0

" 0

parameter 0

```
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
941 0
_ 0
Length B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
260 0
. 0

8078766905325 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
941 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
] 0
, 0

" 0
optimization 0
" 0
```

```
: 0
" 0
arm B-system
_ 0
length B-parameter
" 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
1 0
_ 0
ROT2 0
" 0
, 0

" 0
value 0
" 0
: 0
" 0
0 0
. 0

0 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
1 0
" 0
, 0

" 0
component 0
```

```
_ 0
property 0
" 0
: 0
" 0
END 0
_ 0
ROT 0
" 0
} 0
] 0
} 0
, 0

{ 0
" 0
parameter 0
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
Length B-parameter
" 0
, 0

" 0
value 0
" 0
: 0
" 0
50 0
. 0

0 0
" 0
, 0

" 0
component 0
_ 0
properties 0
" 0
: 0
[ 0
{ 0
" 0
component 0
_ 0
name 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
1 0
" 0
, 0
```

" 0
component 0
_ 0
property 0
" 0
: 0
" 0
Length B-parameter
" 0
} 0
] 0
, 0

" 0
optimization 0
" 0
: 0
" 0
arm B-system
_ 0
length B-parameter
" 0
} 0
] 0
, 0

" 0
components 0
" 0
: 0
[0
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2922 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0

```
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
```

```
2923 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
```



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" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
```

```
_ 0
2924 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
```

```
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```

Arm B-system

_ 0
2925 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Arm B-system

_ 0
2926 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0

```
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
BatteryController B-control
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
BatteryController B-control
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
```

```
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Battery B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
TurnigyGraphene5000mAh6S75C 0
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
2 0
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394od 0
_ 0
```

```
para 0
_ 0
hub 0
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394od 0
_ 0
para 0
_ 0
hub 0
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```

```

Cargo B-system
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Cargo B-system
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
CargoCase B-module
" 0
} 0
, 0

{ 0
" 0

```



```
component 0
_ 0
instance 0
" 0
: 0
" 0
Cross 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940d 0
_ 0
para 0
_ 0
hub 0
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Cross 0
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
```

```
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394od 0
_ 0
para 0
_ 0
hub 0
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
```

```

flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
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" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0

```

```
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0
```

```

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0

```

```
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
```

```
" 0
: 0
" 0
Flange B-module
_ 0
955 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Flange B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
0394 0
_ 0
para 0
_ 0
flange B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
UAV 0
_ 0
Fuselage B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
capsule 0
_ 0
fuselage B-system
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Para 0
_ 0
Hub 0
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940d 0
_ 0
para 0
_ 0
hub 0
_ 0
4 0
" 0
} 0
, 0
```

```
{ 0
" 0
```



```
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor B-system
_ 0
MN4014KV400 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE5215XF 0
_ 0
435 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE5215XF 0
_ 0
435 0
" 0
} 0
, 0

{ 0
" 0
component 0
```

```
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
455 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
```

```
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
t 0
_ 0
motor 0
_ 0
MN3520KV400 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE5215XF 0
_ 0
435 0
" 0
} 0
, 0

{ 0
" 0
```

```
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE5215XF 0
_ 0
435 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Motor B-system
" 0
```

```
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
kde 0
_ 0
direct 0
_ 0
KDE700XF 0
_ 0
455 0
_ 0
G3 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Orient B-module
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
```

```
" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
17x8N 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
```

```
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
15x5 0
_ 0
5MR 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
15x5 0
_ 0
5MR 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
```


Propeller B-system

_ 0

4 0

" 0

, 0

" 0

component 0

_ 0

type 0

" 0

: 0

" 0

Propeller B-system

" 0

, 0

" 0

component 0

_ 0

choice 0

" 0

: 0

" 0

apc 0

_ 0

propellers B-system

_ 0

15x11 0

" 0

} 0

, 0

{ 0

" 0

component 0

_ 0

instance 0

" 0

: 0

" 0

Propeller B-system

_ 0

5 0

" 0

, 0

" 0

component 0

_ 0

type 0

" 0

: 0

" 0

Propeller B-system

" 0

, 0

" 0

component 0

_ 0

choice 0

" 0

: 0

```
" 0
apc 0
_ 0
propellers B-system
_ 0
17x8N 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
15x5 0
_ 0
5MR 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
7 0
```

```
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
apc 0
_ 0
propellers B-system
_ 0
15x5 0
_ 0
5MR 0
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Propeller B-system
_ 0
8 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Propeller B-system
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
```

```
apc 0
_ 0
propellers B-system
_ 0
15x11 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
941 0
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
```

```
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Tube 0
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
03940D 0
_ 0
para 0
_ 0
tube 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
RpmTemp B-parameter
```

```
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0

" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Autopilot 0
" 0
} 0
, 0

{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
```

```
, 0
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Current B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
4 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Voltage B-parameter
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
GPS B-module
" 0
} 0
, 0
```

```
{ 0
" 0
component 0
_ 0
instance 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0
```

```
" 0
component 0
_ 0
type 0
" 0
: 0
" 0
Sensor B-module
" 0
, 0
```

```
" 0
component 0
_ 0
choice 0
" 0
: 0
" 0
Variometer B-parameter
" 0
} 0
] 0
, 0
```

```
" 0
connections 0
```



```
" 0
: 0
[ 0
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2922 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
955 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
```

```

" 0
Arm B-system
_ 0
2923 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0

```

```

conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0

```

```
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
```

```

conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0

```

```
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
1 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
```

EndConnection B-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

Cross B-module

_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0

" 0
: 0
" 0

Side B-component

_ I-component

Connector I-component

_ 0
3 0
" 0
} 0
, 0

{ 0
" 0
from 0

_ 0
ci 0
" 0
: 0
" 0

Arm B-system

_ 0
2926 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0

" 0
: 0
" 0

EndConnection B-component

" 0
, 0

" 0
to 0
_ 0
ci 0


```
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
```

```
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
```

```
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0
```

```
{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
```


Connector I-component

_ 0
2 0
" 0
, 0

" 0
to 0

_ 0
ci 0
" 0
: 0
" 0

RotatedArm B-component

_ 0
942 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

BaseConnection B-component

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

Bend B-module

_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0

Side B-component

_ I-component

Connector I-component

_ 0
2 0
" 0
, 0

" 0
to 0

```
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2922 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```

```

: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0

```

```

" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module

```

```

_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0

```

```
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
```

```
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
```

```

" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0

```



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conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0

```

```

" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0
```

```

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0

```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
955 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
```

FloorConnector6 B-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

Sensor B-module

_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0

" 0
: 0
" 0

SensorConnector B-component

" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0

Fuselage B-system

_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0

" 0
: 0
" 0

BottomConnector B-component

" 0
, 0

" 0
to 0
_ 0
ci 0

" 0
: 0
" 0

MainHub B-module

_ 0
1 0


```

" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Top B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0

```

```
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector3 B-component
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector1 B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0

```

```

BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Bottom B-system
_ I-system
Connector I-system
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Case2HubConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module

```

```
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2926 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
```

```
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
```



```
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
941 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
```

```

" 0
Propeller B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
2 0
" 0
, 0

```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```

```

: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0

```

```

CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0

```

```
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
```

```

" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Prop B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Propeller B-system
_ 0
8 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MOTOR B-component
_ I-component
CONNECTOR I-component
_ 0
CS 0
_ 0
IN 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Orient B-module
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0

```



```
: 0
" 0
ORIENTCONN 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Orient B-component
_ I-component
Connector I-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
941 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
```

```
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component
_ 0
942 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
955 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SideConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2922 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```

```

: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0

```

```
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0

" 0
from 0
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conn 0
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: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
```

```
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
```

```
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
1 0
" 0
, 0

" 0
```

```

to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0

```



```

" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module

```

```
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2925 0
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
```

```
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2926 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
EndConnection B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
```

```
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
```

```
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
```

```
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0
```

```
" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0
```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
```



```
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
MotorPower B-module
" 0
```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
BatteryController B-control
_ 0
1865 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BatteryPower B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Battery B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
PowerBus B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
RotatedArm B-component

```

```

_ 0
942 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2922 0
_ 0
1 0
" 0
, 0

" 0

```

```
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Bend B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Cargo B-system
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
, 0

" 0
to 0
```

```
_ 0
ci 0
" 0
: 0
" 0
CargoCase B-module
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
CargoConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
```

```

conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0

```

```
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
```

```
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
4 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2923 0
```



```

_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
2 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Arm B-system
_ 0
2924 0
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0

```

```

conn 0
" 0
: 0
" 0
BaseConnection B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Cross B-module
_ 0
2 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
Side B-component
_ I-component
Connector I-component
_ 0
1 0
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

```

```
" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
2 0
" 0
, 0
```

```
" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
3 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0
```

```

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
4 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
6 0

```

```

" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
5 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
7 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component

```

```
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
6 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
8 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
```

```
_ 0
7 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Motor B-system
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
Base B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Flange B-module
_ 0
955 0
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
```



```

: 0
" 0
TopConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
3 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector5 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0

```

```
" 0
Sensor B-module
_ 0
4 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector6 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
MainHub B-module
_ 0
1 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
```

```

Top B-component
_ I-component
Connector I-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
BottomConnector B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
2 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system

```

```
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector4 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
5 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector7 B-component
" 0
```

```

} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
6 0
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0

" 0
to 0
_ 0
ci 0
" 0
: 0
" 0
Fuselage B-system
_ 0
1 0
" 0
, 0

" 0
to 0
_ 0
conn 0
" 0
: 0
" 0
FloorConnector8 B-component
" 0
} 0
, 0

{ 0
" 0
from 0
_ 0
ci 0
" 0
: 0
" 0
Sensor B-module
_ 0
1 0

```

```
" 0
, 0

" 0
from 0
_ 0
conn 0
" 0
: 0
" 0
SensorConnector B-component
" 0
, 0
```