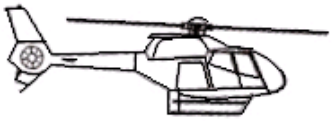


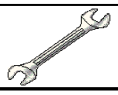
No. EC120-24-015

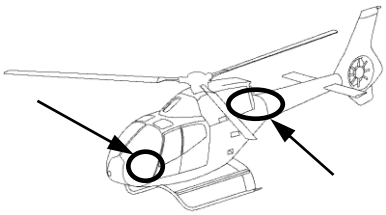
Civil version(s): B

SERVICE BULLETIN

CORRECTIVE MEASURE

ELECTRICAL POWER - Electrical master box
Separation of the direct battery distribution from the electrical master box

For the attention of	
	



Revision No.	Date of issue
Revision 0	2017-01-24
Revision 1	2019-07-16
Revision 2	2022-05-12

Summary:

The purpose of this Service Bulletin is to eliminate any risk of total loss of electrical power by separating the direct battery distribution from the electrical master box.

Reason for last Revision:

The purpose of the revision 2 of this Service Bulletin is to:
- replace the MP/N 22208BC040010L by the MP/N 22208BC040012L due to customer's request,
- update the Service Bulletin with a new format.

Compliance:

Airbus Helicopters recommends compliance with this Service Bulletin.

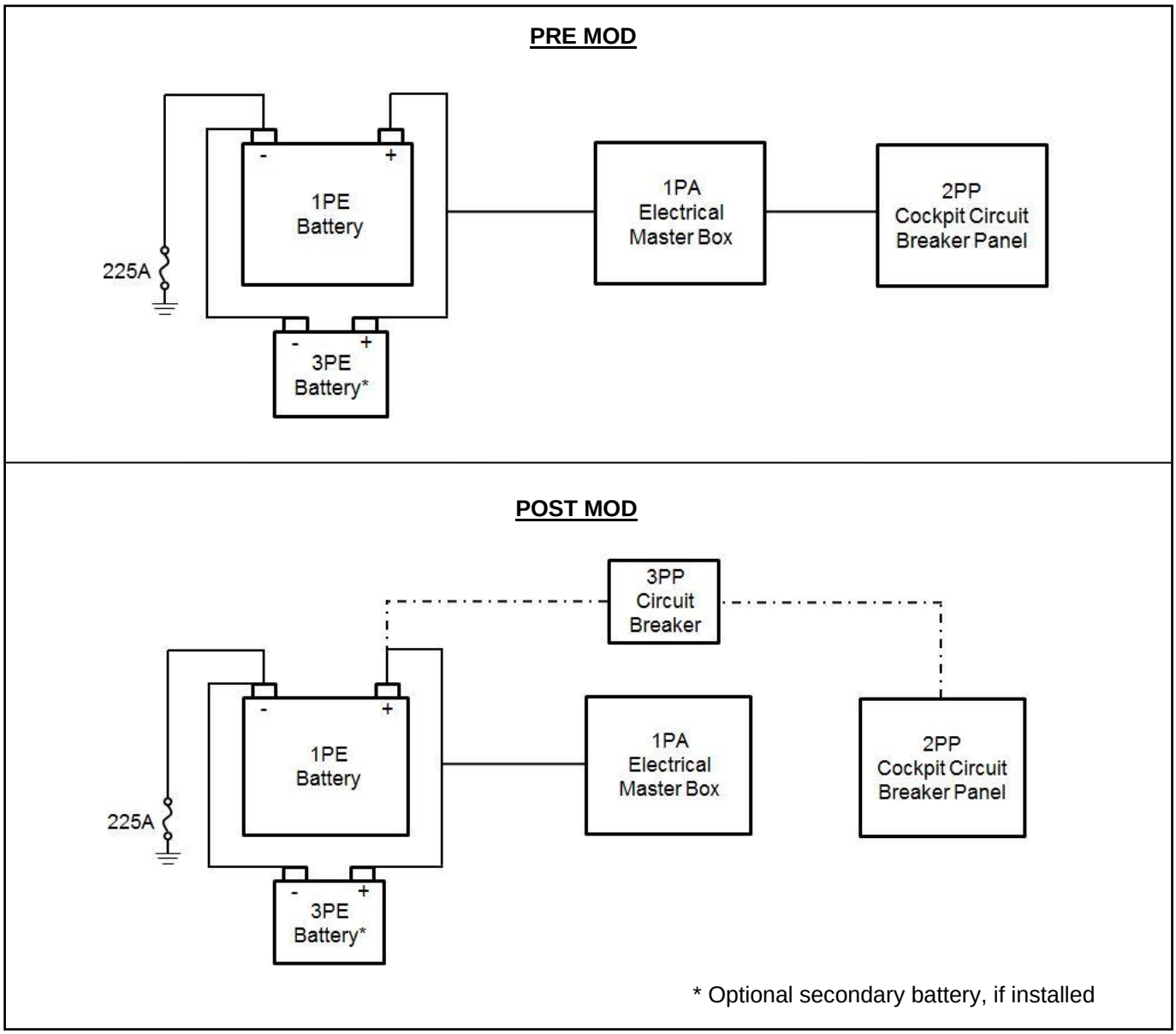
1. PLANNING INFORMATION

1.A. EFFECTIVITY

1.A.1. Helicopters/installed equipment or parts

Helicopters with serial numbers under 1698 or between 8001 and 8034.

Helicopters which have already complied previous revision of this Service Bulletin are not concerned by revision 2 of this Service Bulletin.



1.A.2. Non-installed equipment or parts

Not applicable.

1.B. ASSOCIATED REQUIREMENTS

CAUTION

BEFORE ANY INTERVENTION, CHECK WHETHER YOUR FLIGHT MANUAL AS APPROVED BY THE COMPETENT AUTHORITIES WAS UPDATED AS WELL AS THE MAINTENANCE PROGRAM. SEE PARAGRAPH 3.D.

1.C. REASON

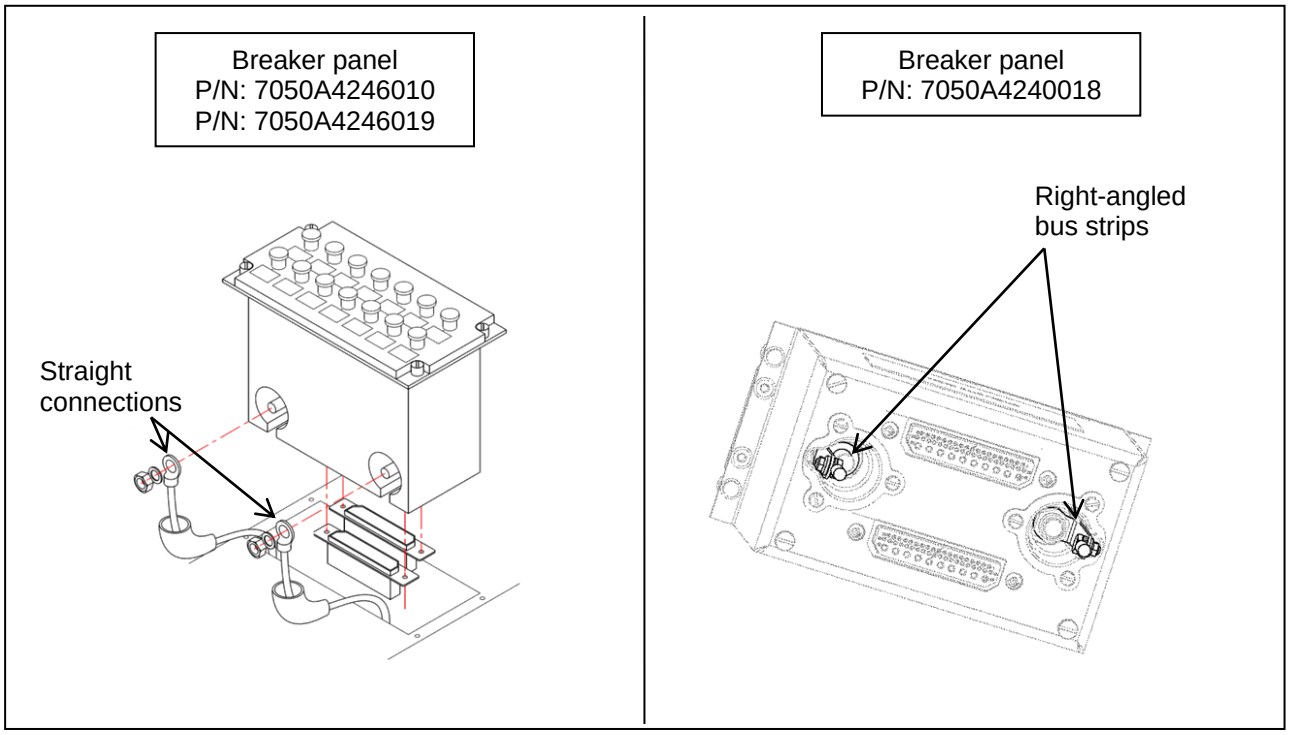
Revision 0:

Airbus Helicopters was informed of a partial loss of electrical power. The investigations concluded that the failure of the electrical master box was at the origin of this anomaly.
This could have caused a total loss of electrical power.
Airbus Helicopters has thus drawn up this Service Bulletin in order to eliminate any risk of total loss of electrical power by separating the direct battery distribution from the electrical master box.

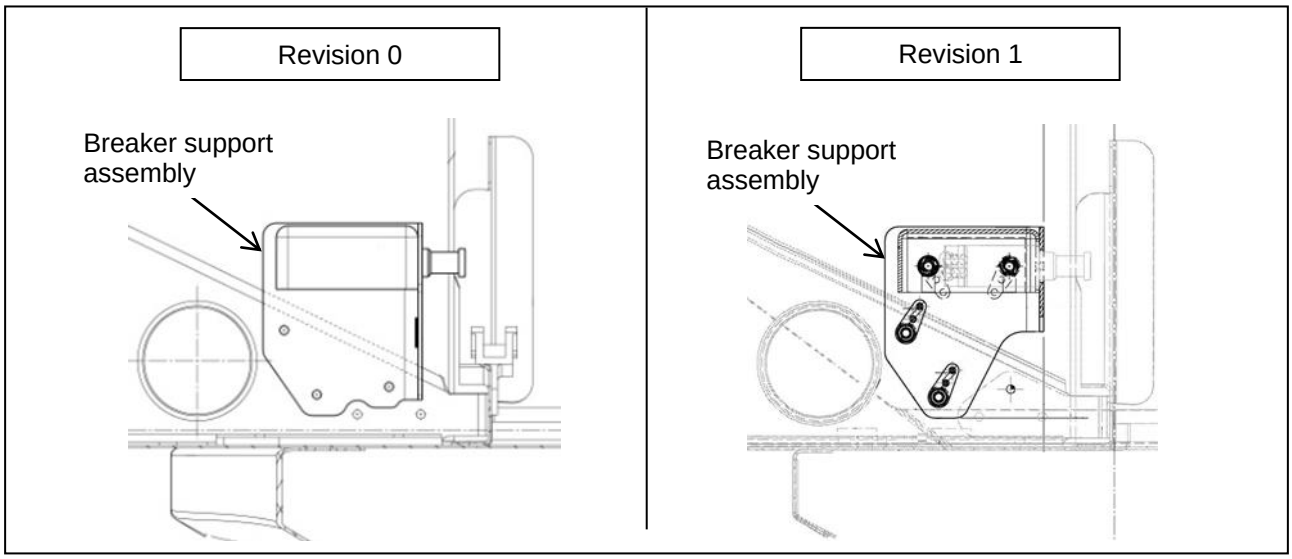
Revision 1:

The revision 0 of this Service Bulletin required that the terminal lug be bent at a right angle (90 degrees) for connection to the cockpit circuit breaker panel. This revision 1 of this Service Bulletin clarifies the different cockpit circuit breaker panels of different manufacturer part numbers (MP/N) which require either a right-angled connection or a straight connection.

For a right-angled connection, this revision 1 introduces right-angled bus strips as an interface between the cockpit circuit breaker panel and the terminal lugs. This removes the need to bend the terminal lugs for installation on such cockpit circuit breaker panel. For straight connections, the right-angled bus strips are not required



In the cargo hold, the circuit breaker could not be fully installed on the circuit breaker support together with the circuit breaker cover because the total thickness is too large. This revision 1 introduces a new breaker cover to allow the installation of the circuit breaker directly on the breaker support assembly. The design of the breaker support assembly is also changed to eliminate possible interference between the breaker support assembly and adjacent components.



NOTE 1

For customers who have already purchased the modification kit as per revision 0 of this Service Bulletin, this revision 1 of this Service Bulletin provides additional rework kits to complement the kit already purchased.

NOTE 2

The modification kit introduced in revision 0 of this Service Bulletin is no longer valid for new purchases and is replaced with a new modification kit in this revision 1 of this Service Bulletin.

NOTE 3

For customers who have complied with revision 0 of this Service Bulletin, this revision 1 of this Service Bulletin provides the necessary procedures to complete the modification with the rework kits.

Other changes include:
- correction of typographical error,
- removal of compliance at manufacturer's level since the helicopter is no longer manufactured,
- addition of procedure for surface protection where rivets are installed,
- update of procurement details following the change in the supplier of consumables,
- update of the status of publications affected by the modification,
- update of equipment and parts nomenclature in paragraph 2.C. to be consistent with the Airbus Helicopters' supply chain,
- improvement of the Service Bulletin presentation to be in line with Information Notice No. 3218-I-00.

Revision 1 of this Service Bulletin affects the compliance with revision 0 of this Service Bulletin.

Revision 2:

The purpose of the revision 2 of this Service Bulletin is to:
- replace the MP/N 22208BC040010L by the MP/N 22208BC040012L due to customer's request.
- update the Service Bulletin with a new format.

Revision 2 of this Service Bulletin does not affect the compliance with previous revisions of this Service Bulletin.

1.D. DESCRIPTION

This Service Bulletin consists in:
- Moving a clamp support.
- Installing a new circuit breaker support.
- Installing a new circuit breaker.
- Removing the electrical connection between the electrical master box and the cockpit circuit breaker panel.
- Installing new electrical connections between the battery, the new circuit breaker and the cockpit circuit breaker panel.

1.E. COMPLIANCE

1.E.1. Compliance at H/C manufacturer level

Not applicable.

1.E.2. Compliance in service

The work must be performed on the helicopter by the operator.

Helicopters/installed equipment or parts:

For helicopters who have not complied with revision 0 of this Service Bulletin, Airbus Helicopters recommends compliance with paragraph 3. except paragraphs 3.B.2.a.2. and 3.B.2.b.1. of this Service Bulletin during one of the next maintenance inspections as per operational constraints.

For helicopters who have complied with revision 0 of this Service Bulletin, Airbus Helicopters recommends compliance with paragraph 3. except paragraphs 3.B.2.a.1., 3.B.2.b.2. and 3.B.2.d.1. of this Service Bulletin during one of the next maintenance inspections as per operational constraints.

Non-installed equipment or parts:

Not applicable

1.F. APPROVAL

Approval of modifications:

The information or instructions relate to modification A00781 which was approved on December 13, 2016 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The information or instructions relate to modification COA8005 - C008A0246058 which was approved on January 09, 2019 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

The information or instructions relate to modification COA8006 - C008A0246059 which was approved on January 09, 2019 under the authority of EASA Design Organization Approval No. 21J.700 for civil version helicopters subject to an Airworthiness Certificate.

Approval of this document:

The technical information contained in this Service Bulletin Revision 0 was approved on January 19, 2017 under the authority of EASA Design Organization Approval No. 21J.700 for helicopters of civil versions subject to an Airworthiness Certificate.

The technical information contained in this Service Bulletin Revision 1 was approved on January 22, 2019 under the authority of EASA Design Organization Approval No. 21J.700 for helicopters of civil versions subject to an Airworthiness Certificate.

The technical information contained in this Service Bulletin Revision 2 was approved on May 12, 2022 under the authority of EASA Design Organization Approval No. 21J.700 for helicopters of civil versions subject to an Airworthiness Certificate.

1.G. MANPOWER

For compliance with this Service Bulletin, Airbus Helicopters recommends the following staff qualifications:

Qualification: - 1 Electrical Technician,
- 1 Airframe Technician.

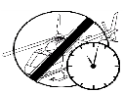
Time for the operations is indicated for reference, for a standard configuration.

For helicopters that have not complied with revision 0 of this Service Bulletin:

Time for the operations: - 4 hours approximately for the Electrical Technician,
- 2 hours approximately for the Airframe Technician.

For helicopters that have previously complied with revision 0 of this Service Bulletin:

Time for the operations: - 1 hour approximately for the Electrical Technician,
- 1 hour approximately for the Airframe Technician.



Estimated helicopter grounding time:

For helicopters that have not complied with revision 0 of this Service Bulletin:
- The estimated helicopter grounding time is approximately half a day.

For helicopters that have previously complied with revision 0 of this Service Bulletin:
- The estimated helicopter grounding time is approximately 2 hours.

1.H. WEIGHT AND BALANCE

Weight:

Weight: + 0.063 kg.

Moment:

Longitudinal moment: + 0.39 m.Kg.

After work completion, record weight and moment in your dedicated document.

1.I. POWER CONSUMPTION

The modification has no impact on the power consumption.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

The following documents are required for compliance with this Service Bulletin:

Standard Practices Manual (MTC):

- MTC: 20-02-01-418: Protection of electrical wiring during maintenance operations - General
- MTC: 20-02-05-404: Assembly by screws and nuts - Joining
- MTC: 20-02-07-101: Electrical bonding: General - Electrical bonding
- MTC: 20-02-07-401: Bonding procedure - Electrical bonding
- MTC: 20-02-07-403: Use of Vernelec 43022 varnish - Electrical bonding
- MTC: 20-03-02-401: Installation of normal rivets - General rivet replacement principles
- MTC: 20-03-02-406: Installation of “CHERRY-MAX” ASNA 0077 and 0078 rivets - General rivet replacement principles
- MTC: 20-04-01-102: Use of cleaning products on individual parts and on aircraft - Cleaning
- MTC: 20-04-04-403: Touch-up of protective treatment with Alodine 1200 - Surface treatment before painting
- MTC: 20-04-05-402: Application of Epoxy primer P05 - P20 - Paint and primer application procedure
- MTC: 20-05-01-227: Application of Jointing Compound CA 1010 (CM 518) - General sealing procedures
- MTC: 20-07-03-406: Instructions applicable when working on an aircraft electrical circuit and power generating systems - Technical instructions
- MTC: 20-07-03-408: Appearance checks on an aircraft after an inspection or repair - Technical instructions
- MTC: 20-80-20-104: Crimping AMP/FASTON pre-insulated and post-insulated terminals - Standard practices - Electrical power
- MTC: 20-80-20-438: Assembly check for indicator lights, switches, circuit-breakers and potentiometers - Standard practices - Electrical power
- MTC: 20-80-20-439: Operations on switches, circuit breakers and potentiometers - Standard practices - Electrical power

Aircraft Maintenance Manual (AMM):

- AMM: 24-00-00, 3-1: General instructions – Electrical power supply system
- AMM: 24-00-00, 6-1: Inspection - Electrical power supply system
- AMM: 24-32-00, 5-1A: Functional Tests - Electrical master box (P/N 4502-101)
- AMM: 24-32-00, 5-1B: Functional Tests - Electrical master box (P/N SE07111) (P/N SE07113) (P/N SE13543).
- AMM: 24-61-02, 4-1: Removal / installation – Circuit-breaker panel in cockpit

Information Notice (IN):
- IN: 3481-I-00: The Marketplace: an AirbusWorld eOrdering service
- IN: 3785-I-00: Introduction of the digital Service Bulletin reporting SB Insight

1.L. OTHER AFFECTED PUBLICATIONS

CAUTION

TO COMPLY WITH THIS SERVICE BULLETIN, THE OPERATOR MUST MAKE SURE THAT ALL THE MAINTENANCE DOCUMENTS NECESSARY FOR THE MAINTENANCE OF THIS INSTALLATION ARE AVAILABLE. IF THEY ARE NOT AVAILABLE, THE OPERATOR MUST CONTACT AIRBUS HELICOPTERS TO GET THESE DOCUMENTS.

Publication already updated:

The modifications was added into the following manual:
Flight Manual (FLM)

You will receive the documents to which you subscribe.

Publications to be updated:

The modifications will be integrated into the followings manuals:
- Aircraft Maintenance Manual (AMM),
- Wiring Diagrams Manual (MCS),
- System Description Section (SDS).

These documents will be issued at a later date.

The Illustrated Parts Catalog (IPC) document update must be ordered by the customer.

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

PRE MOD and POST MOD parts are not interchangeable.

Mixability:

Not applicable.

2. EQUIPMENT OR PARTS INFORMATION

2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Price

For any information concerning the price of modification kits and/or components or assistance, contact the Airbus Helicopters Network or Customer Support Sales Department.

For customers who have purchased modification kit part number (P/N): C120A007810071, the modification rework kit P/N: C120A007810051 and, where applicable, kit P/N: C120A007810052 will be delivered free of charge by Airbus Helicopters Light Helicopters Program Support Department.

Availability

Delivery deadlines will be indicated by Sales and Customer Relations Department on the operator's request.

Procurement

Order the required quantity from the Airbus Helicopters Network Sales and Customer Relations Department:

Airbus Helicopters
Etablissement de Marignane
Direction Ventes et Relation Client
13725 MARIGNANE CEDEX
FRANCE

NOTE 1

On the purchase order, please specify the mode of transport, the destination and the serial numbers of the helicopters to be modified.

2.B. LOGISTIC INFORMATION

Not applicable.

2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Kits to be ordered for one helicopter:

Key Word	Qty	New P/N	Item	Old P/N → Instruction
Direct Battery / Electrical Master Box Routing Separation Kit including :		**C120A007810071**		
Lots de cables et reperes (Set of wires and markers)	1	C008A024605699	1	
Label (Label “3PP”)	1	ECS0731W34T9L	1a	
Cable, Electric, 1 Line	1	EN2267-010A030S	1b	
Cable, Electric, 1 Line	1	EN2267-010A012S	1c	
Circuit-breaker, 15A	1	EN2495-15AM	2	
Cowling, circuit breaker, 14P (Circuit breaker cover)	1	350A62400600	3	
Support disjoncteur (Circuit breaker support)	1	C246A2001201	4	
Terminal	1	NSA936501TA1606	5	
Terminal	1	NSA936501TA1403	6	
Terminal	1	NSA936501TA1603	7	
Terminal	1	NSA936501TA1406	8	
Rivet	3	21215DC3208J	9	
Rivet	1	21215DC3207J	10	
Clamp support	1	ASNE0608-02	11	
Blind rivet	1	ASNA0078A506	12	
Etiquette D.BATT (Label “D.BATT”)	1	C246A3119201	16	

NOTE 2

Modification kit P/N : C120A007810071 is no longer procurable. The information above is only for reference.

No. EC120-24-015

For customers who have not purchased the modification kit P/N: C120A007810071, order the following kit:

Key Word	Qty	New P/N	Item	Old P/N	→	Instruction
Direct Battery / Electrical Master Box Routing Separation Kit, including:		**C120A007810072**				
Lots de cables et reperes (Set of wires and markers)	1	C008A024605699	1			
Label “3PP”	1	**For reference only**	1a			**For ref only**
Cable	1	EN2267-010A030S	1b			
Cable	1	EN2267-010A012S	1c			
Circuit-breaker, 15A	1	EN2495-15AM	2			
Terminal	1	NSA936501TA1606	5			
Terminal	1	NSA936501TA1403	6			
Terminal	1	NSA936501TA1603	7			
Terminal	1	NSA936501TA1406	8			
Rivet	1	21215DC3207J	10			
Clamp support	1	ASNE0608-02	11			
Blind rivet	1	ASNA0078A506	12			
Etiquette D.BATT (Label “D.BATT”)	1	C246A3119201	16			
Breaker support assembly	1	C246A1001101	17			
Breaker cover	1	C246A1001202	18			
Bolt, hex. head	4	22208BC040010L	24			NOTE 5
Washer, flat	4	23111AG040LE	25			

NOTE 3

Item (5) is not required for helicopters equipped with cockpit circuit breaker panel MP/N: X390 00 059 (7050A4240018).

For customers who have purchased the modification kit P/N: C120A007810071, order the following kit:

Key Word	Qty	New P/N	Item	Old P/N	→	Instruction
Direct Battery / Electrical Master Box Routing Rework Kit, including:		**C120A007810051**				
Terminal	1	NSA936501TA1606	5			
Rivet	1	21215DC3208J	9			
Etiquette D.BATT (Label “D.BATT”)	1	C246A3119201	16			
Breaker support assembly	1	C246A1001101	17			
Breaker cover	1	C246A1001202	18			
Lot de repere (Label “3PP”)	1	C008A024605799	21			
Bolt, hex. head	4	22208BC040010L	24			NOTE 5
Washer, flat	4	23111AG040LE	25			

NOTE 4

Item (5) is not required for helicopters equipped with cockpit circuit breaker panel MP/N: X390 00 059 (7050A4240018).

NOTE 5

4 bolts MP/N 22208BC040010L item (24) are not used in this Service Bulletin

For all customers, regardless of prior purchase of the modification kit P/N: C120A007810071, if the helicopter is equipped with the cockpit circuit breaker panel MP/N: X390 00 059 (7050A4240018), order the following kit:

Key Word	Qty	New P/N	Item	Old P/N	→	Instruction
Breaker Panel Bus Strip Kit, including:		**C120A007810052**				
Terminal	2	NSA936501TA1603	7			
Bus strip	2	C246A1001204	20			
Nut, hex., self-locking	2	ASN52320BH040N	22			
Bolt, hex. head	2	22208BC040008L	23			
Washer, flat	2	23111AG040LE	25			

Equipment or parts to be ordered separately:

Key Word	Qty	New P/N	Item	Old P/N → Instruction
Rivet	1	21215DC3207J	10	
Blind rivet	1	ASNA0078A506	12	
Convoluted sheath	1 pack	E0637A06	13	
Heat shrinkable sleeve (Silicone sheath)	1 m	E0484KMJ0300	14	
Sleeve	1 m	VG95343T05E006A	26	
Bolt, hex. head	4	22208BC040012L	31	

Consumables to be ordered separately:

As per Work Cards and Tasks mentioned in this Service Bulletin and table below:

Key Word	Qty	P/N	CM	Item
Varnish	1 can	ECS2228.10 (VERNELEC 43022)	CM 514	15
Interposition sealant	1 tube	ECS7009 (CA1010-1160)	CM 518	19
Grease G-355	1 tube	DCSEA355 (NYCO GREASE GN06)	CM 116	27
Basic resin for primer (P05 epoxy primer)	1 can	DHS186-111.20 (4123/3600 YELLOW-GREEN 7835)	CM 487	28
Protection	1 can	ECS2287.10 (ARDROX AV30)	CM 526	29
Sticker (Chemical conversion material)	1 pc	ECS2338.10 (BONDERITE M-CR 1132 AERO)	CM 316	30

NOTE 6

Sealing compound MP/N: Mastinox 6856 K can be used in lieu of interposition sealant (19). However, the use of sealing compound MP/N: Mastinox 6856 K is prohibited in all of the European zone from the beginning of the year 2019.

You can order the consumables from the AirbusWorld Marketplace through e-ordering (IN 3481-I-00).
If you can't get access to e-ordering, please contact your Logistic Focal Point.

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

- As per MTC Work Card 20-02-01-418, read and comply with instructions for protection of electrical wiring during maintenance operations.
- As per MTC Work Card 20-02-05-404, read and comply with instructions for joining by bolts and nuts.
- As per MTC Work Card 20-02-07-101, read and comply with general instructions for electrical bonding.
- As per MTC Work Card 20-02-07-401, read and comply with instructions on electrical bonding procedure.
- As per MTC Work Card 20-03-02-401, read and comply with instructions for installation of normal rivets.
- As per MTC Work Card 20-03-02-406, read and comply with instructions for “CHERRY - MAX” rivets ASNA077 and 0078.
- As per MTC Work Card 20-04-01-102, read and comply with instructions for use of cleaning products on individual parts and on aircraft.
- As per MTC Work Card 20-80-20-104, read and comply with instructions for crimping AMP/FASTON pre-insulated and post-insulated terminals.
- As per MTC Work Card 20-80-20-438, read and comply with instructions for assembly check of indicator lights, switches, circuit breakers and potentiometers.
- As per MTC Work Card 20-80-20-439, read and comply with instructions for operations on switches, circuit breakers and potentiometers.
- As per AMM Task 24-00-00, 3-1, read and comply with general instructions for electrical power.

3.B. WORK STEPS

3.B.1. Preliminary steps

- Disconnect all electrical power supplies as per MTC Work Card 20-07-03-406.
- Install suitable access means.
- Remove and/or open all cowlings, panels, doors and equipment as required for access to work zones.

3.B.2. Procedure

3.B.2.a. Relocation of the clamp support (Figure 1)

3.B.2.a.1. Moving of the clamp support (Figure 1)

- Remove and discard the rivet (a).
- Remove and discard the clamp support (b).

- Drill rivet hole (T) using a 3.3 mm (0.129 in) diameter drill.
- Deburr and clean the area.
- Perform touch up on the rivet holes (A) and (T) with chemical conversion material (30) as per Work Card 20-04-04-403 (MTC) (not shown in figure).
- Install rivet (10) in the rivet hole (A) (SECTION B-B, POST SB).
- Install the clamp support (11) using rivet (12).
- Perform touch up on the rivets (10) and (12) with P05 epoxy primer (28) as per Work Card 20-04-05-402 (MTC) (not shown in figure).

3.B.2.a.2. Structure protection (Figure 1, DETAIL C)

Comply with this paragraph only if rivet holes (A) and (T) were not treated with chemical conversion material (30) prior to the installation of the rivet (10) and clamp support (11):

- Remove the rivets (10) and (12).
- Deburr and clean the rivet holes (A) and (T).
- Perform touch up on the rivet holes (A) and (T) with the chemical conversion material (30) as per Work Card 20-04-04-403 (MTC) (not shown in figure).
- Install new rivet (10).
- Install the clamp support (11) with new rivet (12).
- Perform touch up on the rivets (10) and (12) with the P05 epoxy primer (28) as per Work Card 20-04-05-402 (MTC) (not shown in figure).

3.B.2.b. Installation of the new breaker support assembly (Figures 2 and 3)

3.B.2.b.1. Remove existing circuit breaker support (Figure 2, DETAIL B)

- Remove circuit breaker (2) and circuit breaker cover (3) from circuit breaker support (4).
- Keep the circuit breaker (2).
- Unrivet the circuit breaker support (4) from RH web (d).
- Discard the circuit breaker cover (3) and the circuit breaker support (4).
- Perform touch up on rivet hole (B) with the chemical conversion material (30) as per Work Card 20-04-04-403 (MTC) (not shown in figure).
- Install rivet (9) into the rivet hole (B).
- Perform touch up on the rivet (9) with the P05 epoxy primer (28) as per Work Card 20-04-05-402 (MTC) (not shown in figure).
- Enlarge fixation holes (C) on the RH web (d) using a 4.2 mm (0.165 in) diameter drill.

3.B.2.b.2. Positioning of new breaker support assembly (Figure 3, DETAIL B)

- Position breaker support assembly (17) as shown.
- Mark the fixation holes (C) on the RH web (d).
- Remove the breaker support assembly (17).
- Drill the fixation holes (C) on the RH web (d) using a 4.2 mm (0.165 in) diameter drill.

3.B.2.b.3. Installation of new breaker support assembly (Figure 3, DETAIL B)

- Deburr and clean the fixation holes (C).
- Perform touch up on the fixation holes (C) with the chemical conversion material (30) as per Work Card 20-04-04-403 (MTC) (not shown in figure).
- Install the breaker support assembly (17) with bolts (31) and washers (25):
  . apply interposition sealant (19) on the bolts (31) as per Work Card 20-05-01-227 (MTC).

- Perform touch up on the bolts (31) with the P05 epoxy primer (28) as per Work Card 20-04-05-402 (MTC) (not shown in figure).

3.B.2.c. Installation of the new "3PP" circuit breaker (Figure 3)

- Bond labels "3PP" (1a) or (21) as shown in DETAIL B:
  . clean the concerned area.

- Apply a layer of varnish (15) over the labels "3PP" (1a) or (21) as per Work Card 20-02-07-403 (not shown in figure).
- Temporarily install the bolts (31) and the washers (25) on the breaker support assembly (17) (DETAIL B):
  . leave a gap of approximately 2 mm between the washers (25) and the breaker support assembly (17).

- Install the circuit breaker (2) on the breaker support assembly (17).
- Bond label "D.BATT" (16) as shown in SECTION C-C:
  . clean the concerned area.

- Apply a layer of varnish (15) over the label "D.BATT" (16) as per Work Card 20-02-07-403 (MTC) (not shown in figure).

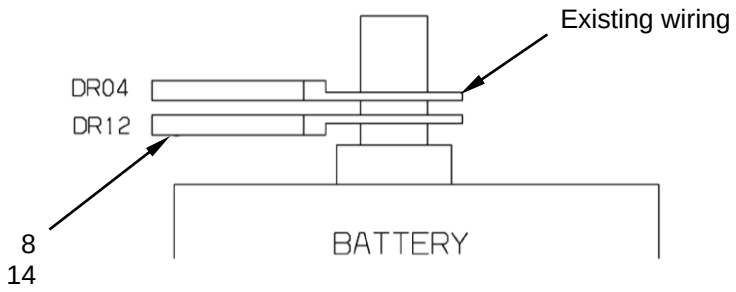
3.B.2.d. Modification of the wiring (Figures 4 and 5)

3.B.2.d.1. Modification of the wiring between battery and "3PP" circuit breaker (Figure 4 or Figure 5)

NOTE 1

For the purpose of this paragraph, the contents of Figure 4 and Figure 5 are the same.

- Disconnect cable (c) from electrical master box (e) (Figure 4 or Figure 5, PRE SB).
- Connect cable (1b) of set of wires and markers (1) with terminals (6) and (8) as per Figure 4 or Figure 5, POST SB.
- Perform a continuity test of the modified wiring.
- Install the silicone sheath (14) on the terminal (8) at battery side and the convoluted sheath (13) on the whole cable (1b).



3.B.2.d.2. Modification of the wiring between "3PP" circuit breaker and cockpit circuit breaker panel (P/N: 7050A4246010 or 7050A4246019) (Figure 4)

NOTE 2

This paragraph is applicable only to helicopters equipped with cockpit circuit breaker panel MP/N: N2000096 (7050A4246010) or 001690 (7050A4246019).

- Remove cockpit circuit breaker panel (f) as per Task 24-61-02, 4-1 (AMM) (Figure 4, PRE SB).
- Disconnect and discard the cable (c).
- Connect cable (1c) of the set of wires and markers (1) with terminals (5) and (7) as per Figure 4, POST SB:
  . do not bend the terminal (5),
  . if the terminal (5) was bent during compliance with revision 0 of this Service Bulletin, replace the terminal (5) with a new one.

- Perform a continuity test on the wiring.
- Install the cockpit circuit breaker panel (f) as per Task 24-61-02, 4-1 (AMM).

3.B.2.d.3. Modification of the wiring between "3PP" circuit breaker and cockpit circuit breaker panel (P/N: 7050A4240018) (Figure 5 and Figure 6)

NOTE 3

This paragraph is applicable only to helicopters equipped with cockpit circuit breaker panel MP/N: X390 00 059 (7050A4240018).

- Remove the cockpit circuit breaker panel (f) as per Task 24-61-02, 4-1 (AMM) (Figure 5, PRE SB).
- Disconnect and discard the cable (c).
- Install bus strips (20) on the cockpit circuit breaker panel (f) with its existing hardware (j) (Figure 6, DETAIL B).
- Connect the cable (1c) of the set of wires and markers (1) with the terminals (7) as per Figure 5, POST SB:
  . for helicopters that have complied with revision 0 of this Service Bulletin, cut and discard the terminal (5) on the cable (1c).

- Disconnect cable (h) from the circuit breaker panel (f).
- Cut and discard terminal (g).
- Install the terminal (7) on cable (h).
- Perform a continuity test on the wiring.
- Install the terminals (7) on the bus strips (20) with nuts (22), bolts (23), washers (25) and sleeve (26) (Figure 6, DETAIL A):
  . apply a layer of grease (27) on the bolts (23) (not shown in figure),
  . apply a layer of protection (29) on the bus strips (20), the nuts (22), the bolts (23) and the washers (25) (not shown in figure),
  . shrink sleeve (26) over the bus strips (20), the nuts (22), the bolts (23) and the washers (25) (Figure 6, DETAIL A).

- Install the cockpit circuit breaker panel (f) as per Task 24-61-02, 4-1 (AMM).

3.B.2.e. Installation of breaker cover (Figure 3, DETAIL B)

- Install breaker cover (18) on the breaker support assembly (17).
- Fully tighten the bolts (31):
  . apply interposition sealant (19) on the bolts (31) as per Work Card 20-05-01-227 (MTC).

- Perform touch up on the bolts (31) with the P05 epoxy primer (28) as per Work Card 20-04-05-402 (MTC) (not shown in figure).

3.B.3. Tests

- Check the electrical power systems as per AMM Task 24-00-00, 6-1.
- Carry out a functional test of each system protected by the circuit breaker panel powered by the Direct Battery.
- Carry out the functional tests of the electrical master box as per AMM Tasks 24-32-00, 5-1A or 24-32-00, 5-1B.

3.B.4. Final steps

- Clean and recondition the work zones and helicopter as per MTC Work Card 20-07-03-408.
- Install and/or close all cowlings, panels, doors and all equipment removed and/or opened during the preliminary steps (paragraph 3.B.1.).
- Connect all electrical power supplies as per MTC Work Card 20-07-03-406.
- Remove the access means.

3.C. COMPLIANCE CONFIRMATION

Compliance with this document:

- Record the full compliance with this Service Bulletin, with the revision number, in the helicopter documents.

- Please confirm compliance with this Service Bulletin (refer to IN 3785-I-00 for instructions):
  QR code or hyperlink

NOTE 4

The recording of compliance with the Service Bulletins in the SB Insight tool does not replace the recording in the helicopter documents.

SB EC120 24-015

Tracking of modifications in the documentation:

Record the full embodiment of the modifications A00781, COA8005 - C008A0246058 and COA8006 - C008A0246059 in the helicopter documents.

3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Operating instructions:

Refer to the Flight Manual (FLM) Normal Revision 0 date code 16-26 or higher.

Maintenance instructions:

The Aircraft Maintenance Manual (AMM) will integrate maintenance instructions during a future revision. When these instructions are integrated, refer to this manual.

NOTE 5

For maintenance Task, contact your usual Airbus Helicopter contact person.

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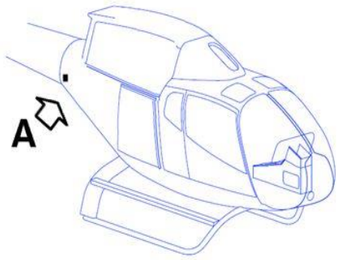
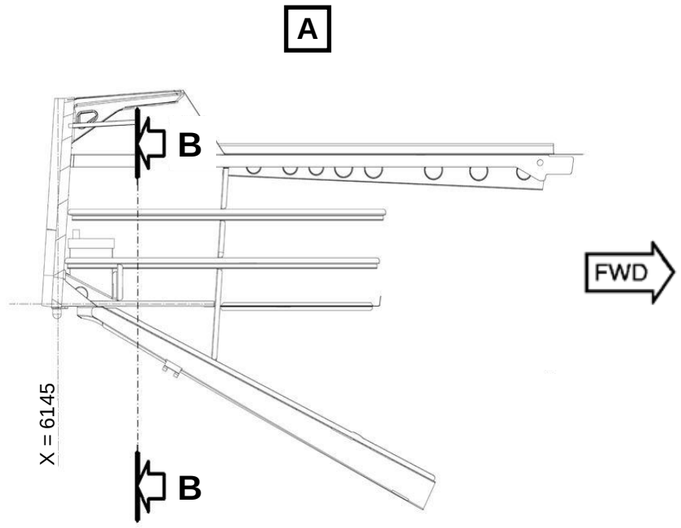
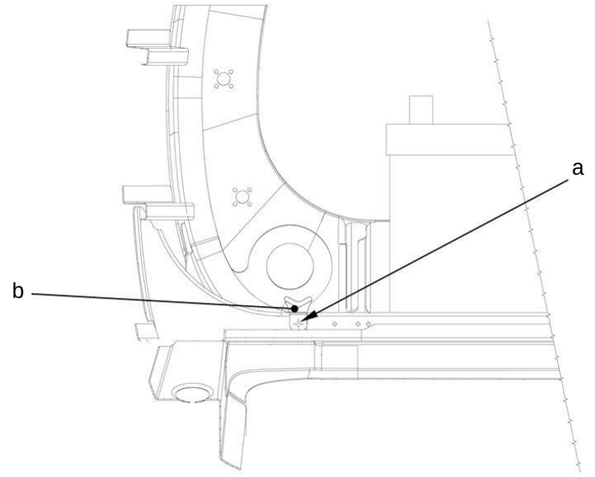
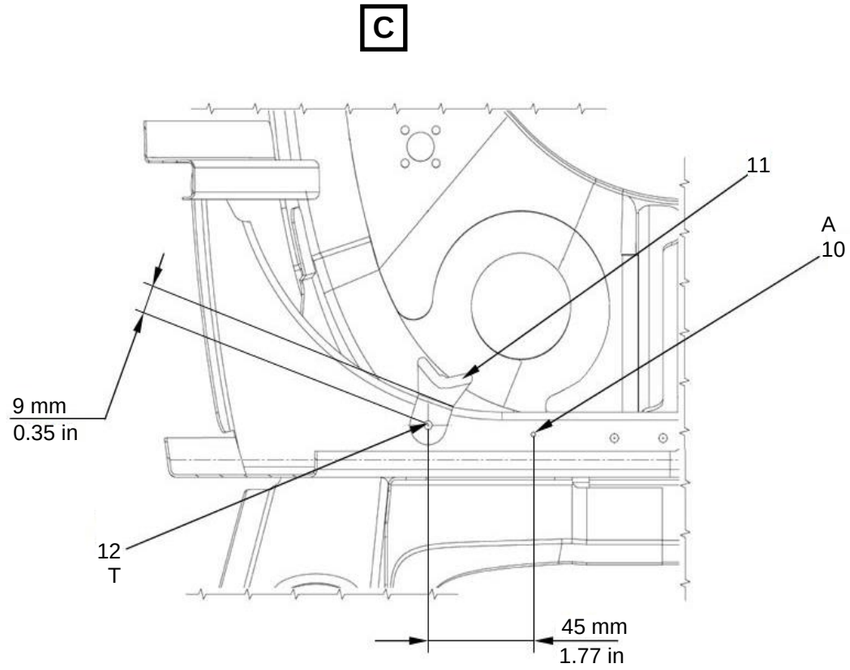




SECTION
B-B

PRE SB





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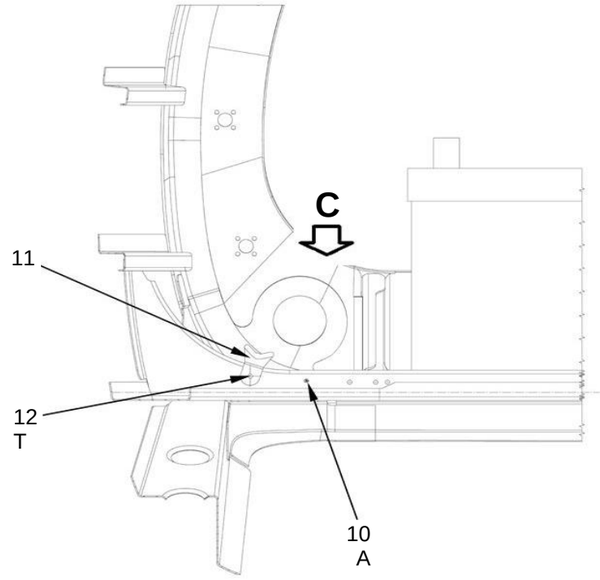

Figure 1

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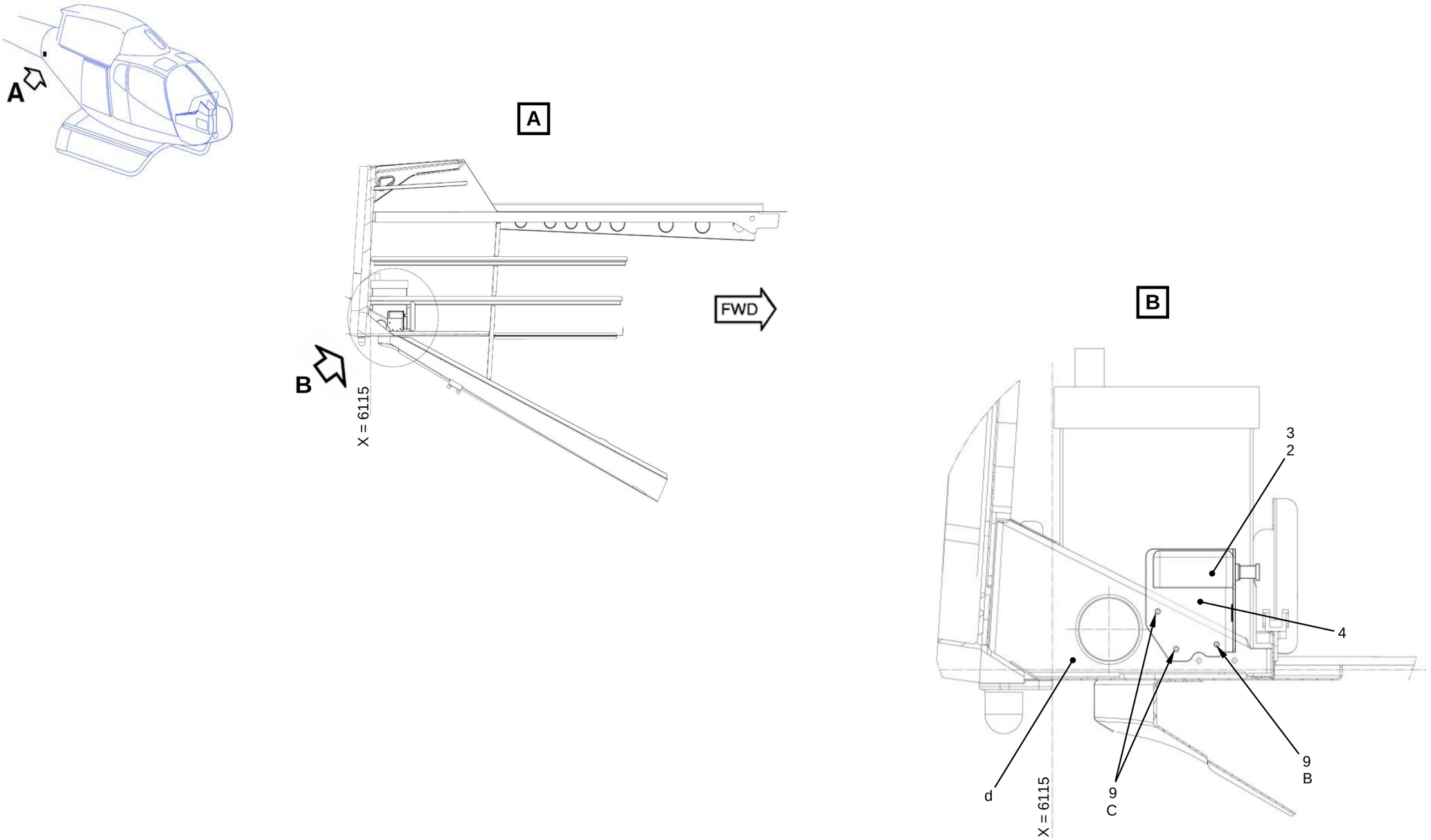

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Figure 2

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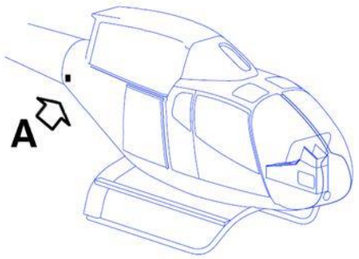
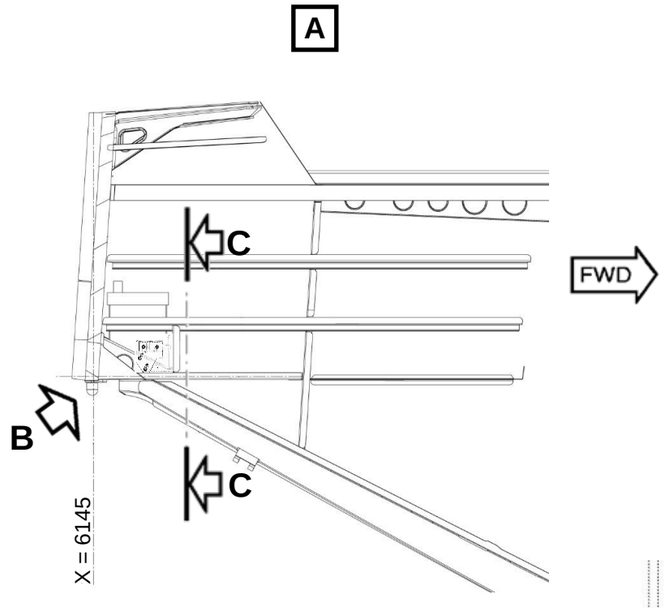
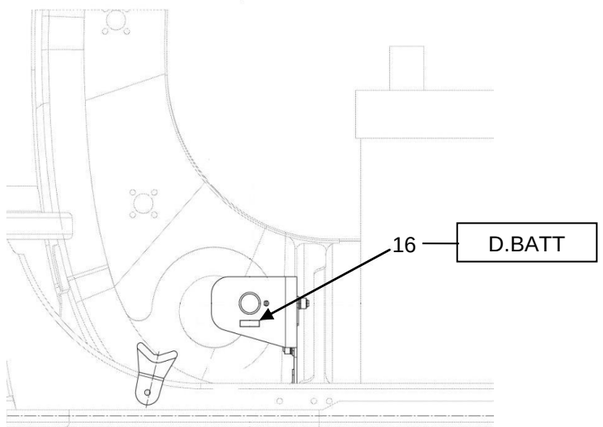




SECTION
C-C



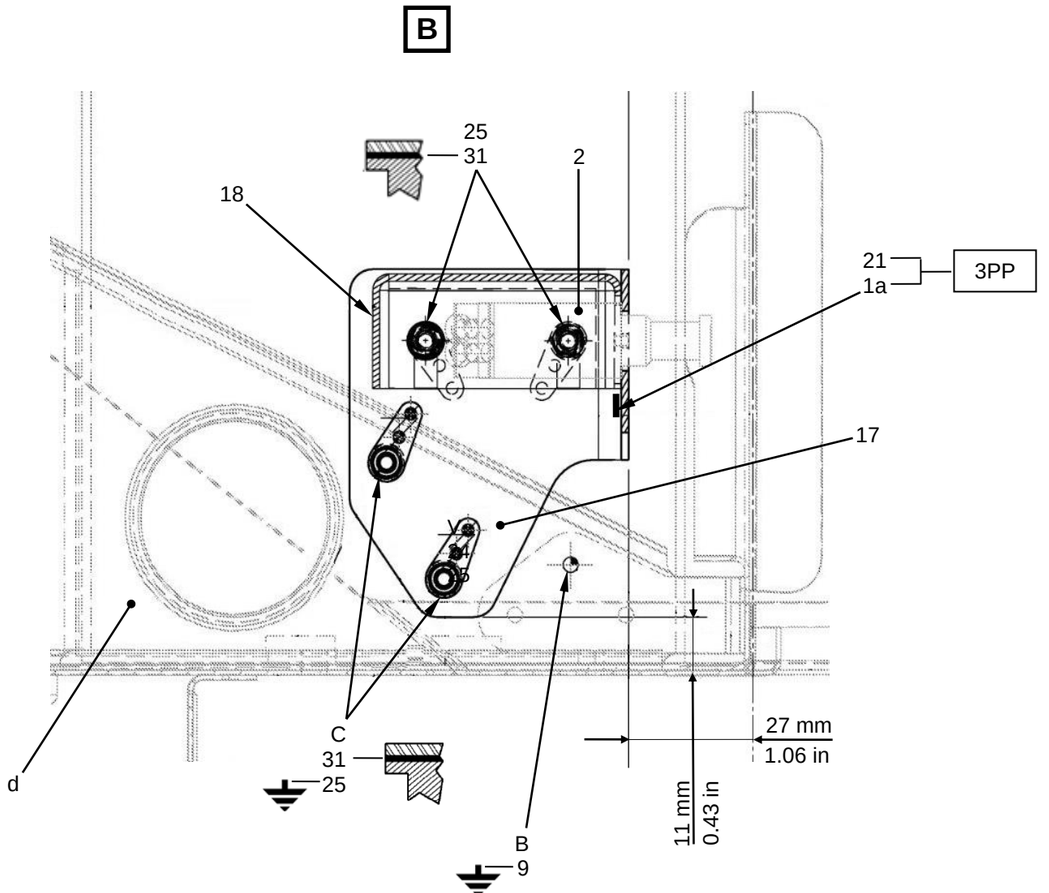


Figure 3

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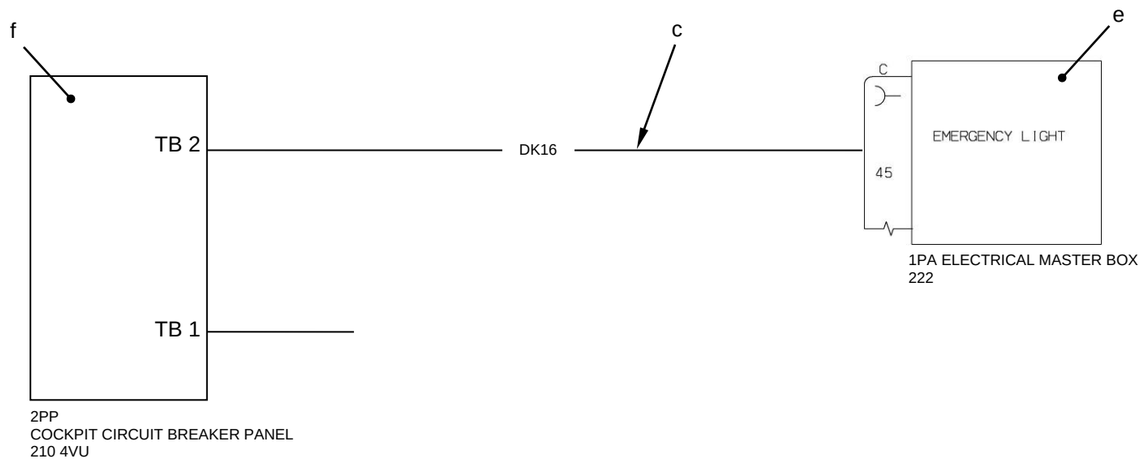
PRE SB



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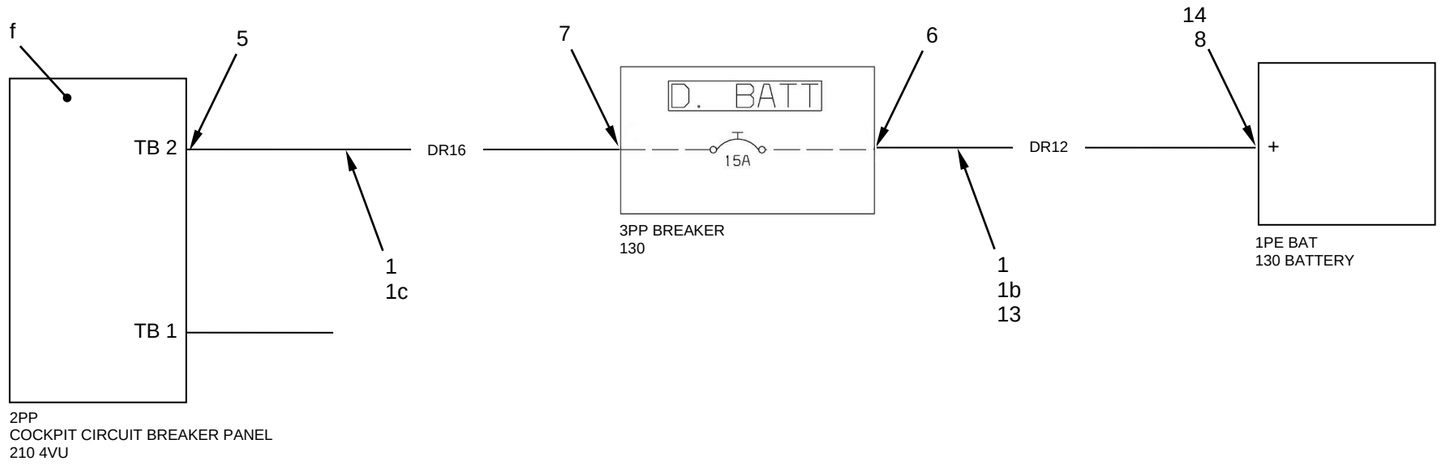

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Figure 4

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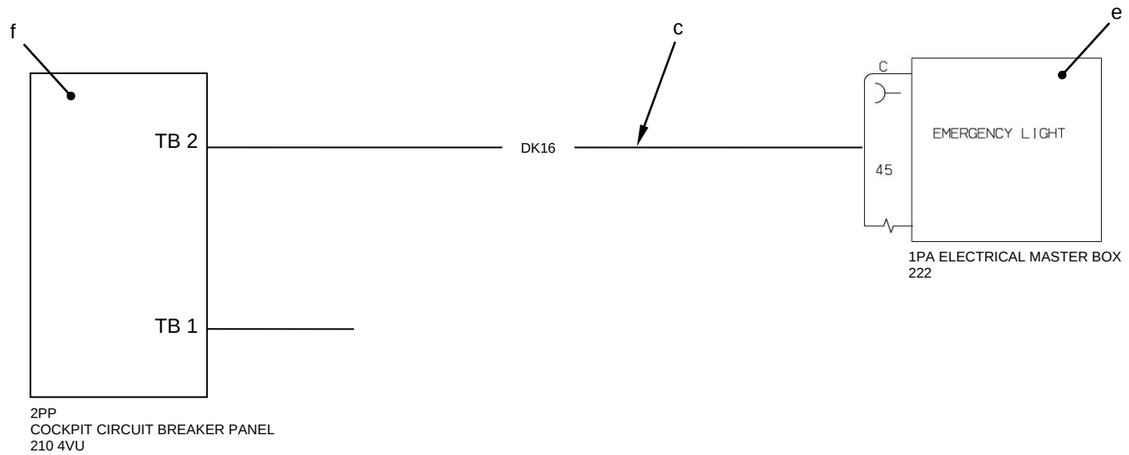
PRE SB



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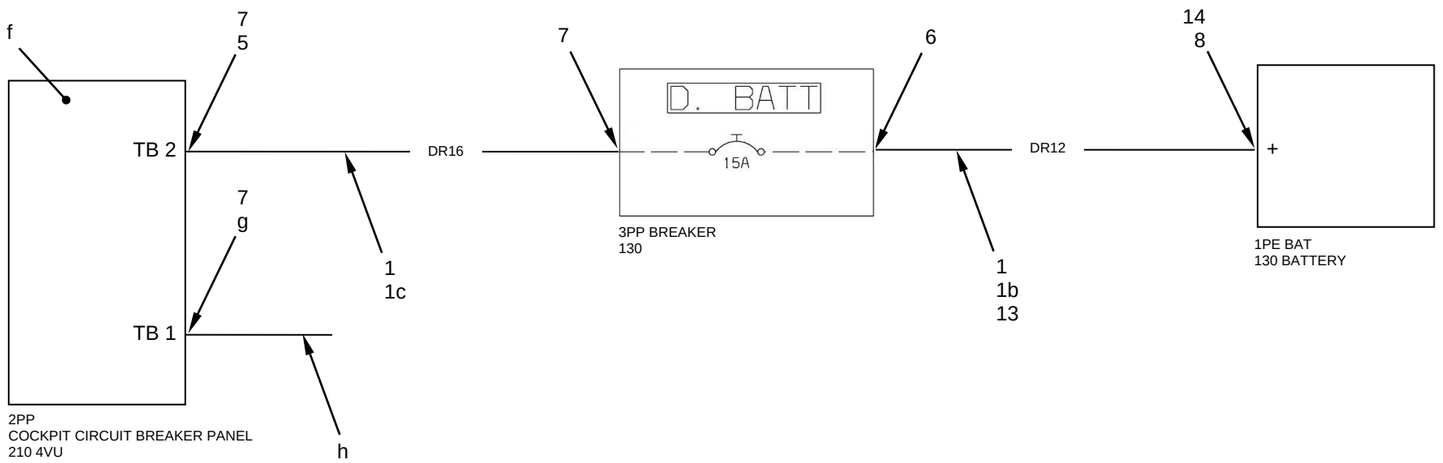

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Figure 5

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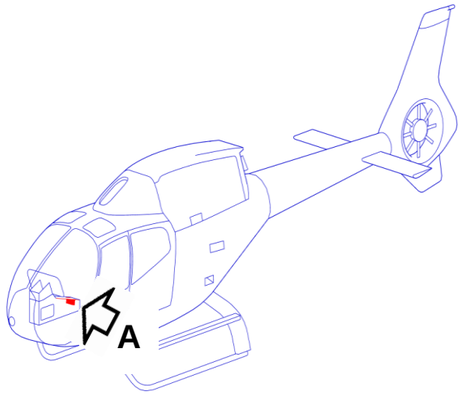

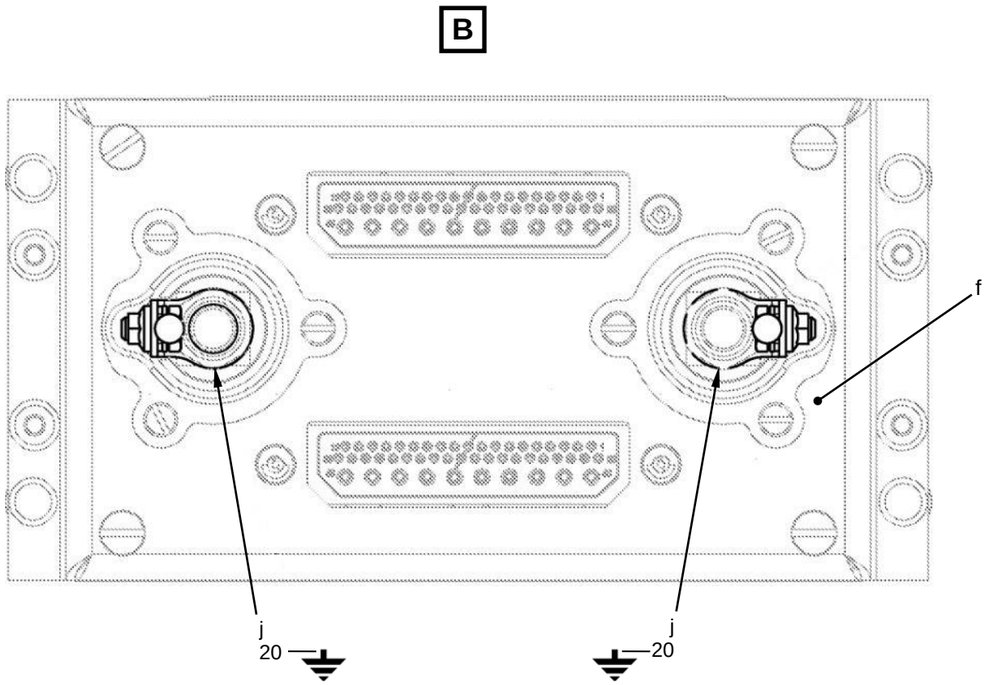

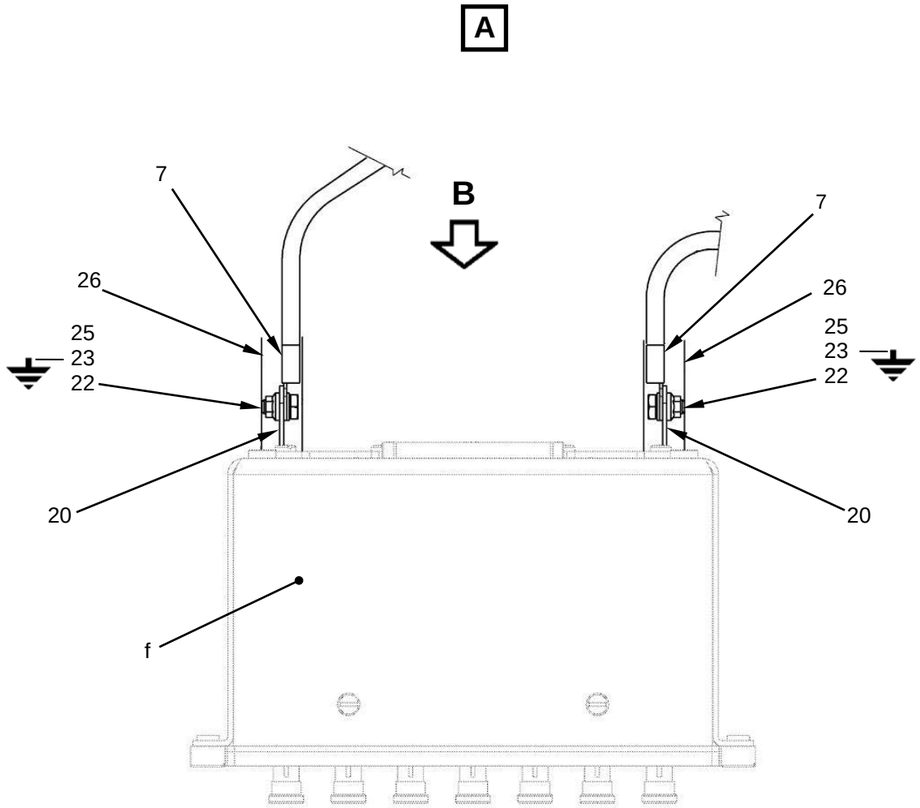

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Figure 6