Service Bulletin No:	**30-007**	**Ref No:**	**258**
Modification No:	**EC-24-0351**	**ATA Chapter:**	**30**

ICE AND RAIN PROTECTION - WINDOWS, WINDSHIELDS AND DOORS
MODIFICATION TO REPLACE THE LH WINDSHIELD HEATING SOLID STATE RELAY

1. Planning information

A. Effectivity

PC-24 aircraft MSN 101 thru MSN 337 that HAVE embodied SB 30-004 or SB 30-006 at the Initial Issue.
AND
PC-24 aircraft MSN 501 thru MSN 590.

This modification will be incorporated on MSN 591 and subsequent during production.

B. Concurrent requirements

None.

C. Reason

(1) Problem

The windshield de-fog (or low power windshield heating) is switched ON/OFF by the LH Solid State Relay (SSR) (P/N 974.20.01.234). When this MOSFET-type SSR is in the OFF state, electrical current is allowed to flow in the reverse direction.

Investigation has found that this reverse current flow can cause the Remote Control Circuit Breaker (RCCB) to trip, rendering the emergency windshield heating ineffective.

(2) Solution

Replace the LH SSR (P/N 974.20.01.234) with the new LH SSR (P/N 974.20.01.235). The new LH SSR does not allow unintended reverse current flow.

D. Description

This Service Bulletin gives the data and instructions necessary to replace the existing LH SSR (P/N 974.20.01.234) with the new SSR (P/N 974.20.01.235).

E. Compliance

Mandatory
To be embodied no later than 24 months from the issue date of this Service Bulletin.

F. Approval

The technical content of this document is approved under the authority of the DOA ref. EASA.21J.357.

Pilatus advises Operators/Owners to check with their designated Airworthiness Authority for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

G. Copyright and legal statement

H. Manpower

Description	**Man-Hours**	
	MSN 101 - 337	**MSN 501 - 590**
Preparation	0.25	
Modification - MSN 101 thru MSN 337	3.50	-
Modification - MSN 501 thru MSN 590	-	1.00
Test	1.00	
Requirements after job completion	0.25	
TOTAL MAN-HOURS	**5.00**	**2.50**

NOTE: The man-hours do not include the time necessary to cure sealants, paints and adhesives.

I. Weight and balance

(1) Weight change:

+0.229 lb (+0,104 Kg).

(2) Moment change:

+18.202 lb*in (+0,210 Kg*m).

J. Electrical load change data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM):

PC24-A-A00-50-0000-00A-070A-A	PC24-A-A06-40-0000-00A-040A-A
PC24-A-E20-10-0003-00A-913A-A	PC24-A-E20-10-0003-01A-913A-A
PC24-A-E20-10-0004-00A-913A-A	PC24-A-E20-20-0001-00A-040A-A
PC24-A-E20-40-0000-00A-259A-A	PC24-A-E20-60-0005-00A-913A-A
PC24-A-E24-00-0000-00A-913A-A	PC24-A-E30-40-0000-00A-320A-A

M. Publications affected

Aircraft Maintenance Manual (AMM).

Illustrated Parts Data (IPD).

Wiring Diagram Manual (WDM).

N. Interchangeability of parts

One-way Interchangeable.
The new P/N is installed in place of the old P/N, but the old P/N cannot be installed in place of the new P/N.

2. Material information

A. Material - Price and availability

Operators that require additional information and/or Service Bulletin material can contact their authorized Pilatus Service Center, or Pilatus Customer Support on https://www.pilatus-aircraft.com → contact us.

NOTE: Part numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd reserves the right to change the part numbers as necessary. Part numbers of items delivered are correct when dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the delivered parts, if parts are superseded. Operators are requested to check the Illustrated Parts Data (IPD) for delivered parts that differ from those listed in the Service Bulletin Materials List.

Operators are requested to advise Pilatus Aircraft Ltd of the Manufacturer's Serial Number (MSN), the flying hours and landings of aircraft that are allocated for this Service Bulletin.

B. Warranty

Credit will be issued for parts and labour for all affected aircraft on approval of a warranty claim, provided the work is accomplished by an authorized Service Center within 12 months of the issue date of this Service Bulletin.

C. Material necessary for each aircraft

NOTE: Referenced AMM procedures may contain additional materials to be procured.

(1) Material to order from Pilatus

Modification kit number	Price	Availability
500.50.24.182 (MSN 101 thru MSN 590)	Contact as above	Approximately 2 weeks

AND

New Part No.	Description	Old Part No.	Qty	Disp. Code	Fig.	Item
974.20.01.235 (Supplier P/N 2412884-1 MOD A)	Relay, Solid State, SSR, 100 A	- 974.20.01.234 (Supplier P/N 2110898-75 MOD B)	1 1	N -	1 2 1 2	29 22 18 15

Disposition Codes: D - Discard / N - New / R - Return to Pilatus / E - Exchange Part

NOTE: When ordering parts, Service Centers are requested to indicate the required by date on the purchase order.

Modification Kit P/N 500.50.24.182 (MSN 101 thru MSN 590)

New part No.	Description	Old part No.	Qty	Disp. code	Fig	Item
932.35.10.037	Screw, Hex, ST, CD-PL, 3.5*11.1	-	4	N	1 2	31 24
		932.35.10.036	3	D	1 2	26 20
938.77.10.007	Washer, ST, CD-PL, 3.6*0.8	-	4	N	1 2	30 23
		938.77.10.007	3	D	1 2	27 19
524.60.24.144 See Note below	Contactor Panel LH	-	1	N	1 2	28 21
		524.60.24.114 524.60.24.234*	1 1	D D	1 2	1 1
511.35.24.941	Placard, K 0911	-	1	N	1 2	32 25
		511.35.24.941	1	D	1 2	- -
971.32.18.122	Saddle	-	1	N	1 2	71 33
		946.31.05.808	1	D	1 2	70 32

Disposition Codes: D - Discard / N - New / R - Return to Pilatus / E - Exchange Part

NOTE: * The new part number has a lower running order than one of the old part numbers.

(2) Additional material to procure (MSN 101 thru MSN 337 only)

New part No.	Description	Old part No.	Qty	Disp. code	Fig	Item
591.50.24.097	Cable, LH De-Fog (H188A4)	-	1	N	1	33
		591.50.24.059	1	D	1	3
591.50.24.099	Cable Assy, Norm De-Ice Feeder (H211B4)	-	1	N	1	34
		591.50.24.095	1	D	1	6
591.50.24.116	Cable, Feeder (H211A4)	-	1	N	1	35
		591.50.24.061	1	D	1	11

Disposition Codes: D - Discard / N - New / R - Return to Pilatus / E - Exchange Part

(3) Additional material to procure (if necessary)

New part No.	Description	Old part No.	Qty	Disp. code	Fig	Item
938.07.68.305	Nut, Hex, ST, CD-PL, 6.4*8.3	-	AR	N	1	65
938.07.68.401	Nut, Hex, Cres, AG-PL, 2.8*3.2	-	AR	N	1 2	12 8
938.07.68.405	Nut, Hex, Cres, AG-PL, 6.4*5.6	-	AR	N	1 2	25 5

Disposition Codes: D - Discard / N - New / R - Return to Pilatus / E - Exchange Part

D. Locally supplied materials

NOTE: Referenced AMM procedures may contain additional consumables to be used.

To identify the materials used in this procedure, look in the Consumable materials list.
Refer to AMM PC24-A-A00-50-0000-00A-070A-A.

Material No.	Description	Qty	Remarks
P01-011	Isopropyl (isopropanol)	AR	-
P02-031	Absorbent paper	AR	Or equivalent
P04-041	Grease	AR	-
P09-064	Tape (Silicone, Red)	AR	-
P09-140	Cable Tie (MS3367)	AR	As applicable
P10-013	CPC (Ardrox AV40)	AR	-

E. Material necessary for each spare

Not applicable.

F. Re-identified parts

Not applicable.

G. Tools and equipment

NOTE: Referenced AMM procedures may contain additional tools to be used.

Tools and equipment	Recommended Pilatus part
Tool kit, mechanic	Local supply
Blanking caps	Local supply
'DO NOT CONNECT ELECTRICAL POWER' sign	Local supply

3. Accomplishment instructions

WARNING: BE CAREFUL WHEN YOU DO WORK ON THE ELECTRICAL SYSTEM OR A SYSTEM THAT USES ELECTRICAL POWER. MAKE SURE THAT IT IS SAFE BEFORE YOU APPLY ELECTRICAL POWER TO THE AIRCRAFT OR ENERGIZE THE AIRCRAFT ELECTRICAL SYSTEMS. ELECTRICAL POWER CAN CAUSE DEATH OR INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

WARNING: BE CAREFUL WHEN YOU USE THE CONSUMABLE MATERIALS. OBEY THE MANUFACTURER´S HEALTH AND SAFETY INSTRUCTIONS AND ALL THE APPLICABLE LOCAL INSTRUCTIONS. CONSUMABLE MATERIALS CAN BE DANGEROUS AND CAN CAUSE DEATH OR INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

NOTE: Refer to the manufacturer's instructions for the necessary time for consumable materials to cure/dry.

NOTE: All torque related information necessary for this procedure is given in the standard practices. Refer to AMM PC24-A-E20-20-0001-00A-040A-A.

A. Preparation

(1) Obey the safe maintenance practices as necessary.
Refer to AMM PC24-A-E20-10-0003-00A-913A-A.

(2) De-energize the aircraft electrical system.
Refer to AMM PC24-A-E24-00-0000-00A-913A-A.

(3) Put a '**DO NOT CONNECT ELECTRICAL POWER**' sign on the:

- Overhead control panel
- External power connection.

(4) Open/Remove the access panels/fairings in Table 1.
Refer to AMM PC24-A-A06-40-0000-00A-040A-A.

Table 1: Access panels/fairings

Panel number	Panel name
212AL	Nose door LH

(5) Disconnect the electrical connector BT0911P1 from battery 1 in the nose bay and install blanking caps on the open connector/receptacle.

B. Modification - MSN 101 thru MSN 337
Refer to Figure 1

(1) Remove the LH Solid State Relay (SSR) (18):
Refer to Figure 1 (Sheet 2 and 3)

(a) Remove (and discard) the four screws (9) and the four washers (8) that attach the cover (7) to the contactor panel K 0911 (1).

(b) Move the cover (7) away from the contactor panel K 0911 (1) to get sufficient access to the SSR (18).

(c) Remove (and keep) the nut (12) and the washer(s) (13) from terminal +X1 (17) on the SSR (18).

(d) Remove the terminal lug of electrical wire H212B24 (15) from terminal +X1 (17).

(e) Pull the electrical wire H212B24 (15) out of the fwd grommet (10) in the cover (7).

(f) Remove (and keep) the nut (12) and the washer(s) (13) from terminal -X2 (16) on the SSR (18).

(g) Remove the terminal lug of electrical wire H185A24 (14) from terminal -X2 (16).

(h) Pull the electrical wire H185A24 (14) out of the aft grommet (10) in the cover (7).

(i) Remove (and discard) the cover (7) (together with the grommets (10)) from the aircraft.

(j) Cut and remove the cable ties that hold the two protective caps (2) in position on terminal T1 (20) and T2 (19) on the contactor panel K 0911 (1).

(k) Move the two protective caps (2) to get access to terminal T1 (20) and T2 (19).

(l) Remove (and discard) the nut (5) and the washer (4) from terminal T1 (20).

(m) Remove the terminal lug of the LH de-fog cable H188A4 (3) from terminal T1 (20).

(n) Remove (and discard) the nut (5) and the washer (4) from terminal T2 (19).

(o) Remove the two terminal lugs of the cables listed below from terminal T2 (19):

- Feeder cable H211A4 (11)
- Norm de-ice feeder cable H211B4 (6).

(p) Remove (and keep) the two protective caps (2).

(q) Cut and remove any necessary cable ties that hold cables/wires in position on the contactor panel K 0911 (1).

(r) Remove (and keep) the three screws (22) and the three washers (21) that attach the contactor panel K 0911 (1) to the structure.

(s) Remove the contactor panel K 0911 (1) (together with the SSR (18)) from the structure.

(t) Remove the SSR (18) from the contactor panel K 0911 (1):

1 Remove the two nuts (25), the two washers (24) and the two bus links (23) from the SSR (18):

- Keep the two nuts (25)
- Keep the two washers (24)
- Discard the two bus links (23).

2 Remove the three screws (26), the three washers (27) and the SSR (18) from the contactor panel K 0911 (1).

- Discard the contactor panel K 0911 (1)
- Discard the three screws (26) and the three washers (27).

(2) Remove the three power cables listed below:
Refer to Figure 1 (Sheet 5 thru 9)

- LH de-fog cable H188A4 (3)
- Norm de-ice feeder cable H211B4 (6)
- Feeder cable H211A4 (11).

(a) Remove (and keep) the four screws (40) and the four washers (41) that attach the cover (42) to the structure at the lightning protection module A 0911 (44).

(b) Remove (and keep) the cover (42).

(c) Remove (and keep) the bolt (48), the spring washer (47) and the washer (46) from terminal T1 on the lightning protection module A 0911 (44).

(d) Remove the terminal lugs of the wire/cables listed below from the lightning protection module A 0911 (44):

- Wire H188E20 (49)
- LH de-fog feeder cable H188B4 (45)
- LH de-fog cable H188A4 (3).

(e) Cut and remove the cable ties that attach the LH de-fog cable H188A4 (3) (near Frame 10) to the:

- Spacer (50) and LH de-ice feeder cable H196A4 (43)

  NOTE: The LH de-ice feeder cable H196A4 (43) can stay attached to the spacer, this cable is not removed from the aircraft.

- Cable mount (52)
- Mounting base (51) and spacer (50).

Refer to Figure 1 (Sheet 5, View F, G and H).

(f) Loosen the two captive screws (54) that attach the terminal block cover (55) to the EPDU 1 (A 071) (53).

(g) Move the terminal block cover (55) away from the EPDU 1 (A 071) (53) to get sufficient access to the feeder cable H211A4 (11).

(h) Remove (and keep) the screw (56), the spring washer (57) and the washer (58) from terminal TB1-4 on the EPDU 1 (A 071) (53).

(i) Remove the terminal lug of the feeder cable H211A4 (11) from terminal TB1-4.

(j) Remove (and keep) the four screws (60) and the four washers (62) that attach the cover (61) to the contactor panel PNL 0912 (59).

(k) Loosen the remaining one screw (60), and remove (and keep) the cover (61).

(l) Remove (and keep) the nut (65), the two washers (64), the washer (66) and the bolt (67) from the bus link (63) at terminal 2T1 on the contactor panel PNL 0912 (59).

(m) Remove the terminal lug of the norm de-ice feeder cable H211B4 (6) from the bus link (63) at terminal 2T1.

(n) Remove the one screw (68) and washer (69) that attaches the clamp (70) to the structure near the SSR (18):

- Keep the screw (68)
- Discard the washer (69).

(o) Remove (and discard) the clamp (70) from the norm de-ice feeder cable H211B4 (6) and the LH de-ice feeder cable H196A4 (43).
Refer to Figure 1 (Sheet 1 and 8, View A and N (Pre SB)).

(p) Remove (and keep) the remaining five screws (68) and washers (69) that attach the five clamps (70) and the three power cables listed below to the structure:

- LH de-ice feeder cable H196A4 (43)
- Norm de-ice feeder cable H211B4 (6)
- Feeder cable H211A4 (11).

Refer to Figure 1 (Sheet 1 and 8, View A and M).

(q) Remove the two power cables listed below from the clamps (70) and the protective sleeve (72):

- Norm de-ice feeder cable H211B4 (6)
- Feeder cable H211A4 (11).

Refer to Figure 1 (Sheet 1, 8 and 9, View M and P).

NOTE: The LH de-ice feeder cable H196A4 can stay in the clamps and protective sleeve. This cable is not removed from the aircraft.

(r) Remove the three power cables listed below from the aircraft:

- LH de-fog cable H188A4 (3)
- Norm de-ice feeder cable H211B4 (6)
- Feeder cable H211A4 (11).

(3) Install the new LH SSR (29):
Refer to Figure 1 (Sheet 4)

(a) Clean the mating surfaces for electrical bonding on the:

- Structure
- New contactor panel K 0911 (28) (P/N 524.60.24.144)
- New LH SSR (29) (P/N 974.20.01.235).

Refer to AMM PC24-A-E20-60-0005-00A-913A-A.

(b) Apply a thin layer of grease (Material No. P04-041) on the threads of the three screws (22) (that you kept).

(c) Put the new contactor panel K 0911 (28) in position on the structure.

(d) Install the three washers (21) (that you kept) and the three screws (22) to attach the contactor panel K 0911 (28) to the structure.

(e) Apply Corrosion Preventative Compound (CPC) (Material No. P10-013) to the heads of the three screws (22), the three washers (21) and any bare metal surfaces on and around the:

- Contactor panel K 0911 (28)
- Structure.

Refer to AMM PC24-A-E20-40-0000-00A-259A-A.

(f) Apply a thin layer of grease (Material No. P04-041) on the threads of the four new screws (31) (P/N 932.35.10.037).

(g) Put the new LH SSR (29) in position on the contactor panel K 0911 (28).

(h) Install the four new washers (30) (P/N 938.77.10.007) and the four new screws (31) to attach the LH SSR (29) to the contactor panel K 0911 (28).

(i) Do an electrical bonding check between the LH SSR (29) and the aircraft structure.
Refer to AMM PC24-A-E20-60-0005-00A-913A-A.

(j) Apply CPC (Material No. P10-013) to the heads of the four screws (31), the four washers (30) and any bare metal surfaces on and around the:

- LH SSR (29)
- Contactor panel K 0911 (28).

Refer to AMM PC24-A-E20-40-0000-00A-259A-A.

(k) Install the placard (32) on the contactor panel K 0911 (28):

1 Clean the area where the new placard K 0911 (32) (P/N 511.35.24.941) is to be installed with absorbent paper (Material No. P02-031) made moist with isopropyl alcohol (Material No. P01-011).
Refer to Figure 1 (Sheet 4, View C).

2 Let the area dry.

3 Remove the backing strip from the new placard K 0911 (32).

4 Install the new placard K 0911 (32) in position on the contactor panel K 0911 (28). Make sure that no air bubbles are caught between the placard and the surface.

(4) Install the three new power cables listed below:
Refer to Figure 1 (Sheet 5 thru 9)

- LH de-fog cable H188A4 (33) (P/N 591.50.24.097)
- Norm de-ice feeder cable H211B4 (34) (P/N 591.50.24.099)
- Feeder cable H211A4 (35) (P/N 591.50.24.116).

(a) Loosely route the new LH de-fog cable H188A4 (33) (P/N 591.50.24.097) between the LH SSR (29) and the lightning protection module A 0911 (44).

(b) Put the terminal lugs of the wire/cables listed below in position on terminal T1 of the lightning protection module A 0911 (44):

- New LH de-fog cable H188A4 (33)
- LH de-fog feeder cable H188B4 (45)
- Wire H188E20 (49).

(c) Install the washer (46), the spring washer (47) and the bolt (48) (that you kept).

(d) Torque the bolt (48) to a maximum of 13 lbf in (1,5 Nm). Make sure that the terminal lugs do not turn or bend.

(e) Use the applicable cable ties (Material No. P09-140) to attach the LH de-fog cable H188A4 (33) (near Frame 10) to the:

- Spacer (50) and LH de-ice feeder cable H196A4 (43)
- Cable mount (52)
- Mounting base (51) and spacer (50).

Refer to Figure 1 (Sheet 5, View F, G and H).

(f) Put the cover (42) in position on the structure at the lightning protection module A 0911 (44).

(g) Install the four washers (41) and the four screws (40) (that you kept) to attach the cover (42).

(h) Install a protecting cap (2) (that you kept) on the LH de-fog cable H188A4 (33) near the LH SSR (29).

(i) Put the terminal lug of the LH de-fog cable H188A4 (33) in position on terminal A2 (39) on the LH SSR (29).

(j) Install the washer (24) and the nut (25) (that you kept). Use a new nut (25) (P/N 938.07.68.405) if necessary.

(k) Torque the nut (25) to between 57 and 85 lbf in (6,4 and 9,6 Nm). Make sure that the terminal lug does not turn or bend.

(l) Loosely route the new norm de-ice feeder cable H211B4 (34) (P/N 591.50.24.099):

- Thru the protective sleeve (72)
  Refer to Figure 1 (Sheet 1 and 9, View P)
- Between the LH SSR (29) and the bus link (63) at terminal 2T1 on the contactor panel PNL 0912 (59).

(m) Put the terminal lug of the norm de-ice feeder cable H211B4 (34) in position on the bus link (63) at terminal 2T1.

(n) Install the washer (66), the bolt (67), the two washers (64) and the nut (65) (that you kept). Use a new nut (65) (P/N 938.07.68.305) if necessary.

(o) Torque the nut (65) to between 50 and 70 lbf in (5,7 and 7,9 Nm). Make sure that the terminal lug does not turn or bend.

(p) Loosely route the new feeder cable H211A4 (35) (P/N 591.50.24.116):

- Thru the protective sleeve (72)
  Refer to Figure 1 (Sheet 1 and 9, View P)
- Between the LH SSR (29) and terminal TB1-4 on the EPDU 1 (A 071) (53).

(q) Put the terminal lug of the feeder cable H211A4 (35) in position on terminal TB1-4 on the EPDU 1 (A 071) (53).

(r) Install the washer (58), the spring washer (57) and the screw (56) (that you kept).

(s) Torque the screw (56) to between 60 and 72 lbf in (6,8 and 8,1 Nm). Make sure that the terminal lug does not turn or bend.

(t) Put the terminal block cover (55) in position on the EPDU 1 (A 071) (53).
Hand tighten the two captive screws (54).

(u) Torque the two captive screws (54) to between 11 and 15 lbf in (1,2 and 1,7 Nm).

(v) Apply a thin layer of grease (Material No. P04-041) on the threads of the five screws (68) (that you kept).

(w) Install new tape (Silicone red, fiberglass) (Material No. P09-064) on the applicable power cables at the installation positions of the five clamps (70).

(x) Put the two new power cables listed below, and the protective sleeve (72), (together with the LH de-ice feeder cable H196A4 (43)) in the five clamps (70) and in position on the structure:

- Norm de-ice feeder cable H211B4 (34)
- Feeder cable H211A4 (35).

Refer to Figure 1 (Sheet 1, 8 and 9, View A, M and P).

(y) Install the five washers (69) (that you kept) and the five screws (68) to attach the five clamps (70) to the structure.

(z) Apply a thin layer of grease (Material No. P04-041) on the threads of the screw (68) (that you kept).

(aa) Put the new saddle (71) (P/N 971.32.18.122) in position on the structure near the SSR (29). Refer to Figure 1 (Sheet 1 and 8, View A and N (Post SB)).

(ab) Install the screw (68) to attach the saddle (71) to the structure. Make sure that the saddle (71) is correctly orientated for the cable tie installation.

(ac) Use new tape (Silicone red, fiberglass) (Material No. P09-064) and the applicable cable ties (Material No. P09-140) to attach the two power cables listed below to the saddle (71):

- Norm de-ice feeder cable H211B4 (34)
- LH de-ice feeder cable H196A4 (43).

(ad) Install a protecting cap (2) (that you kept) on the feeder cable H211A4 (35) near the LH SSR (29).

(ae) Put the two terminal lugs of the cables listed below in position on terminal A1 (38) of the LH SSR (29):

- Norm de-ice feeder cable H211B4 (34)
- Feeder cable H211A4 (35).

(af) Install the washer (24) and the nut (25) (that you kept). Use a new nut (25) (P/N 938.07.68.405) if necessary.

(ag) Torque the nut (25) to between 57 and 85 lbf in (6,4 and 9,6 Nm). Make sure that the terminal lugs do not turn or bend.

(ah) Put the terminal lug of electrical wire H212B24 (15) in position on terminal +X1 (36) on the LH SSR (29).

(ai) Install the washer (13) and the nut (12) (that you kept). Use a new nut (12) (P/N 938.07.68.401) if necessary.

(aj) Put the terminal lug of electrical wire H185A24 (14) in position on terminal -X2 (37) on the LH SSR (29).

(ak) Install the washer (13) and the nut (12) (that you kept). Use a new nut (12) (P/N 938.07.68.401) if necessary.

(al) Torque the two nuts (12) to between 7.1 and 10.6 lbf in (0,8 and 1,2 Nm). Make sure that the terminal lugs do not turn or bend.

(am) Move the two protecting caps (2) into position on terminal A1 (38) and terminal A2 (39) on the LH SSR (29).

(an) Use the applicable cable ties (Material No. P09-140) to:

- Hold the two protecting caps (2) in position.
- Replace any cable ties that you cut and removed for access
- Complete the installation.

C. Modification - MSN 501 thru MSN 590
Refer to Figure 2

(1) Remove the LH Solid State Relay (SSR) (15):
Refer to Figure 2 (Sheet 2 and 3)

(a) Remove (and keep) the nut (8) and the washer (9) from terminal +X1 (14) on the SSR (15).

(b) Remove the terminal lug of electrical wire H212B24 (11) from terminal +X1 (14).

(c) Remove (and keep) the nut (8) and the washer (9) from terminal -X2 (13) on the SSR (15).

(d) Remove the terminal lug of electrical wire H185A24 (10) from terminal -X2 (13).

(e) Cut and remove the cable ties that hold the two protective caps (2) in position on terminal +A1 (16) and -A2 (12) on the contactor panel K 0911 (1).

(f) Move the two protective caps (2) to get access to terminal +A1 (16) and -A2 (12).

(g) Remove (and keep) the nut (5) and the washer (4) from terminal -A2 (12).

(h) Remove the terminal lug of the LH de-fog cable H188A4 (3) from terminal -A2 (12).

(i) Remove (and keep) the nut (5) and the washer (4) from terminal +A1 (16).

(j) Remove the two terminal lugs of the cables listed below from terminal +A1 (16):

- Feeder cable H211A4 (7)
- Norm de-ice feeder cable H211B4 (6).

(k) Cut and remove any necessary cable ties that hold cables/wires in position on the contactor panel K 0911 (1).

(l) Remove (and keep) the three screws (18) and the three washers (17) that attach the contactor panel K 0911 (1) to the structure.

(m) Remove the contactor panel K 0911 (1) (together with the SSR (15)) from the structure.

(n) Remove the SSR (15) from the contactor panel K 0911 (1):

1 Remove the three screws (20), the three washers (19) and the SSR (15) from the contactor panel K 0911 (1).

- Discard the contactor panel K 0911 (1)
- Discard the three screws (20) and the three washers (19).

(o) Remove the clamp (32):
Refer to Figure 2 (Sheet 5, View E (Pre SB))

1 Remove the one screw (30) and washer (31) that attaches clamp (32) to the structure near the SSR (15) installation position:

- Keep the screw (30)
- Discard the washer (31).

2 Remove (and discard) the clamp (32) from the norm de-ice feeder cable H211B4 (6) and LH de-ice feeder cable H196A4 (34).

(2) Install the new LH SSR (22):
Refer to Figure 2 (Sheet 4 and 5)

(a) Clean the mating surfaces for electrical bonding on the:

- Structure
- New contactor panel K 0911 (21) (P/N 524.60.24.144)
- New LH SSR (22) (P/N 974.20.01.235).

Refer to AMM PC24-A-E20-60-0005-00A-913A-A.

(b) Apply a thin layer of grease (Material No. P04-041) on the threads of the three screws (18) (that you kept).

(c) Put the new contactor panel K 0911 (21) in position on the structure.

(d) Install the three washers (17) (that you kept) and the three screws (18) to attach the contactor panel K 0911 (21) to the structure.

(e) Apply Corrosion Preventative Compound (CPC) (Material No. P10-013) to the heads of the three screws (18), the three washers (17) and any bare metal surfaces on and around the:

- Contactor panel K 0911 (21)
- Structure.

Refer to AMM PC24-A-E20-40-0000-00A-259A-A.

(f) Apply a thin layer of grease (Material No. P04-041) on the threads of the four new screws (24) (P/N 932.35.10.037).

(g) Put the new LH SSR (22) in position on the contactor panel K 0911 (21).

(h) Install the four new washers (23) (P/N 938.77.10.007) and the four screws (24) to attach the LH SSR (22) to the contactor panel K 0911 (21).

(i) Do an electrical bonding check between the LH SSR (22) and the aircraft structure.
Refer to AMM PC24-A-E20-60-0005-00A-913A-A.

(j) Apply CPC (Material No. P10-013) to the heads of the four screws (24), the four washers (23) and any bare metal surfaces on and around the:

- LH SSR (22)
- Contactor panel K 0911 (21).

Refer to AMM PC24-A-E20-40-0000-00A-259A-A.

(k) Install the placard (25) on the contactor panel K 0911 (21):

1 Clean the area where the new placard K 0911 (25) (P/N 511.35.24.941) is to be installed with absorbent paper (Material No. P02-031) made moist with isopropyl alcohol (Material No. P01-011).
Refer to Figure 2 (Sheet 4, View C).

2 Let the area dry.

3 Remove the backing strip from the new placard K 0911 (25).

4 Install the new placard K 0911 (25) in position on the contactor panel K 0911 (21). Make sure that no air bubbles are caught between the placard and the surface.

(l) Install the saddle (33):
Refer to Figure 2 (Sheet 5, View E)

1 Apply a thin layer of grease (Material No. P04-041) on the threads of the screw (30) (that you kept).

2 Put the new saddle (33) (P/N 971.32.18.122) in position on the structure near the SSR (22) installation position (where you removed the clamp (32)).
Refer to Figure 2 (Sheet 5, View E).

3 Install the screw (30) (that you kept) to attach the saddle (33) to the structure. Make sure that the saddle (33) is correctly orientated for the cable tie installation.

4 Use new tape (Silicone red, fiberglass) (Material No. P09-064) and the applicable cable ties (Material No. P09-140) to attach the cables listed below to the saddle (33):

- Norm de-ice feeder cable H211B4 (6)
- LH de-ice feeder cable H196A4 (34).

Refer to Figure 2 (Sheet 5, View F).

(m) Make bends in the feeder cable H211A4 (7), as necessary, so that the terminal lug can be installed on terminal A1 (28) of the LH SSR (22).
Refer to Figure 2 (Sheet 5, View F).

(n) Use an applicable cable tie (Material No. P09-140) to attach the feeder cable H211A4 (7) to the other cable(s) H211B4 (6) and H196A4 (34). Refer to Figure 2 (Sheet 5, View F and Flag Note 1).

(o) Put the two terminal lugs of the cables listed below in position on terminal A1 (28) of the LH SSR (22):

- Norm de-ice feeder cable H211B4 (6)
- Feeder cable H211A4 (7).

(p) Install the washer (4) and the nut (5) (that you kept). Use a new nut (5) (P/N 938.07.68.405) if necessary.

(q) Torque the nut (5) to between 57 and 85 lbf in (6,4 and 9,6 Nm). Make sure that the terminal lugs do not turn or bend.

(r) Put the terminal lug of the LH de-fog cable H188A4 (3) in position on terminal A2 (29) on the LH SSR (22).

(s) Install the washer (4) and the nut (5) (that you kept). Use a new nut (5) (P/N 938.07.68.405) if necessary.

(t) Torque the nut (5) to between 57 and 85 lbf in (6,4 and 9,6 Nm). Make sure that the terminal lug does not turn or bend.

(u) Put the terminal lug of electrical wire H212B24 (11) in position on terminal +X1 (26) on the LH SSR (22).

(v) Install the washer (9) and the nut (8) (that you kept). Use a new nut (8) (P/N 938.07.68.401) if necessary.

(w) Put the terminal lug of electrical wire H185A24 (10) in position on terminal -X2 (27) on the LH SSR (22).

(x) Install the washer (9) and the nut (8) (that you kept). Use a new nut (8) (P/N 938.07.68.401) if necessary.

(y) Torque the two nuts (8) to between 7.1 and 10.6 lbf in (0,8 and 1,2 Nm). Make sure that the terminal lugs do not turn or bend.

(z) Move the two protecting caps (2) into position on terminal A1 (28) and terminal A2 (29) on the LH SSR (22).

(aa) As necessary, use new tape (Silicone red, fiberglass) (Material No. P09-064) and the applicable cable ties (Material No. P09-140) to:

- Hold the two protecting caps (2) in position
- Replace any cable ties that you cut and removed for access
- Complete the installation.

D. Test

(1) Remove the '**DO NOT CONNECT ELECTRICAL POWER**' sign from the:

- Overhead control panel
- External power connection.

(2) Remove the blanking caps and connect the electrical connector BT0911P1 to battery 1 in the nose bay.

(3) Energize the aircraft electrical system. Refer to AMM PC24-A-E24-00-0000-00A-913A-A.

(4) Make sure that the aircraft is set to safe maintenance mode.
Refer to AMM PC24-A-E20-10-0003-01A-913A-A.

(5) Do the operation test of the windshield heating.
Refer to AMM PC24-A-E30-40-0000-00A-320A-A.

E. Requirements after job completion

(1) Remove all the equipment, tools and materials from the work area. Make sure that the work area is clean.

(2) Make sure that the access panel in Table 2 is closed.
Refer to AMM PC24-A-A06-40-0000-00A-040A-A.

Table 2: Access panels/fairings

Panel number	Panel name
212AL	Nose door LH

(3) Do the Closeup practices. Refer to AMM PC24-A-E20-10-0004-00A-913A-A.

F. Documentation

(1) Make an entry in the Aircraft Logbook to record the accomplishment of this Service Bulletin.

(2) Make sure that the Aircraft Logbook shows any new Pilatus Part Number(s) and/or Serial Number(s), as applicable.

(3) Make sure that all applicable Aircraft Documentation is updated.

(4) Inform CAMP of the incorporation of this Service Bulletin and any new Pilatus Part Number(s) and/or Serial Number(s), as applicable. Send the completed feedback sheet to: fax@campsystems.com

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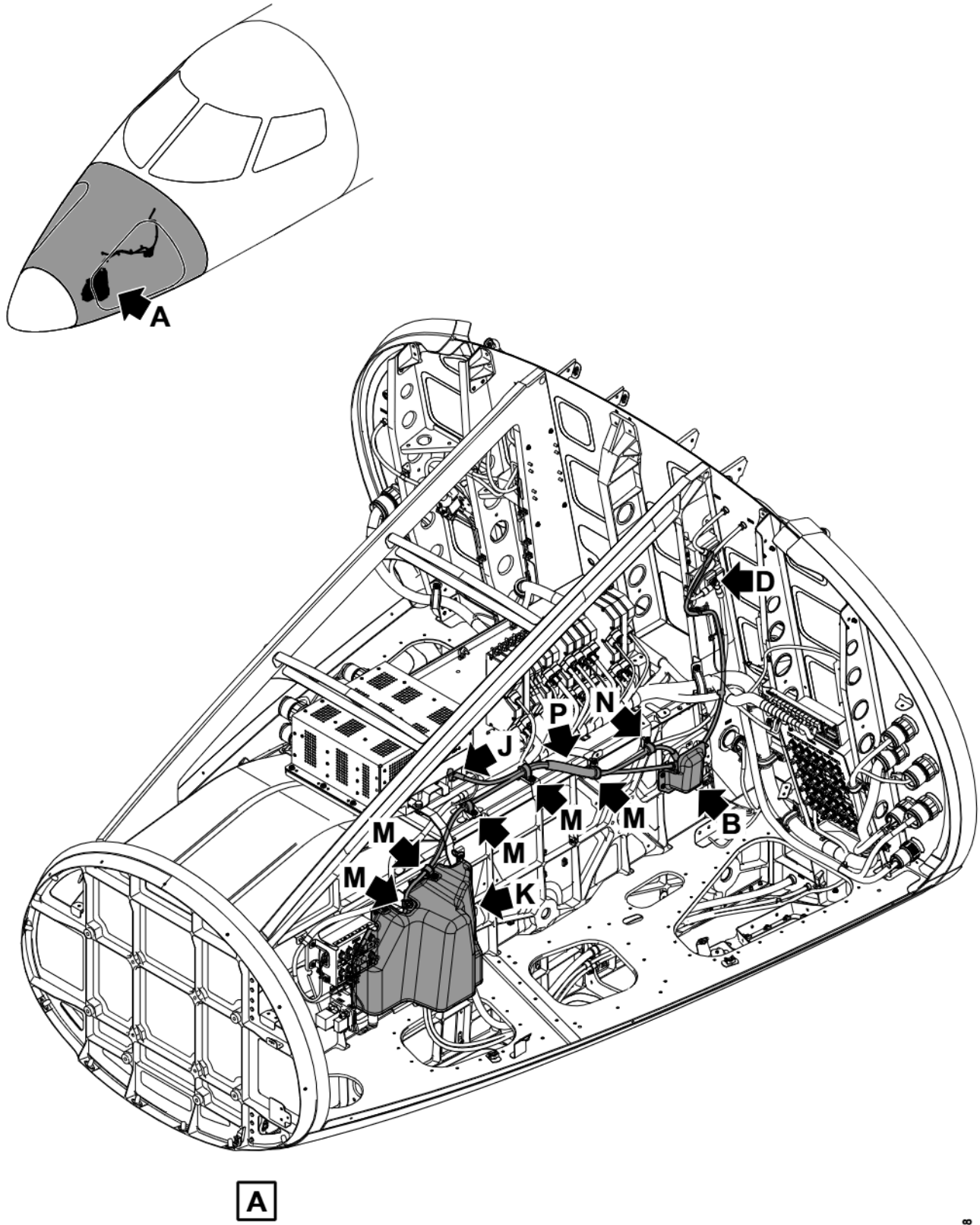
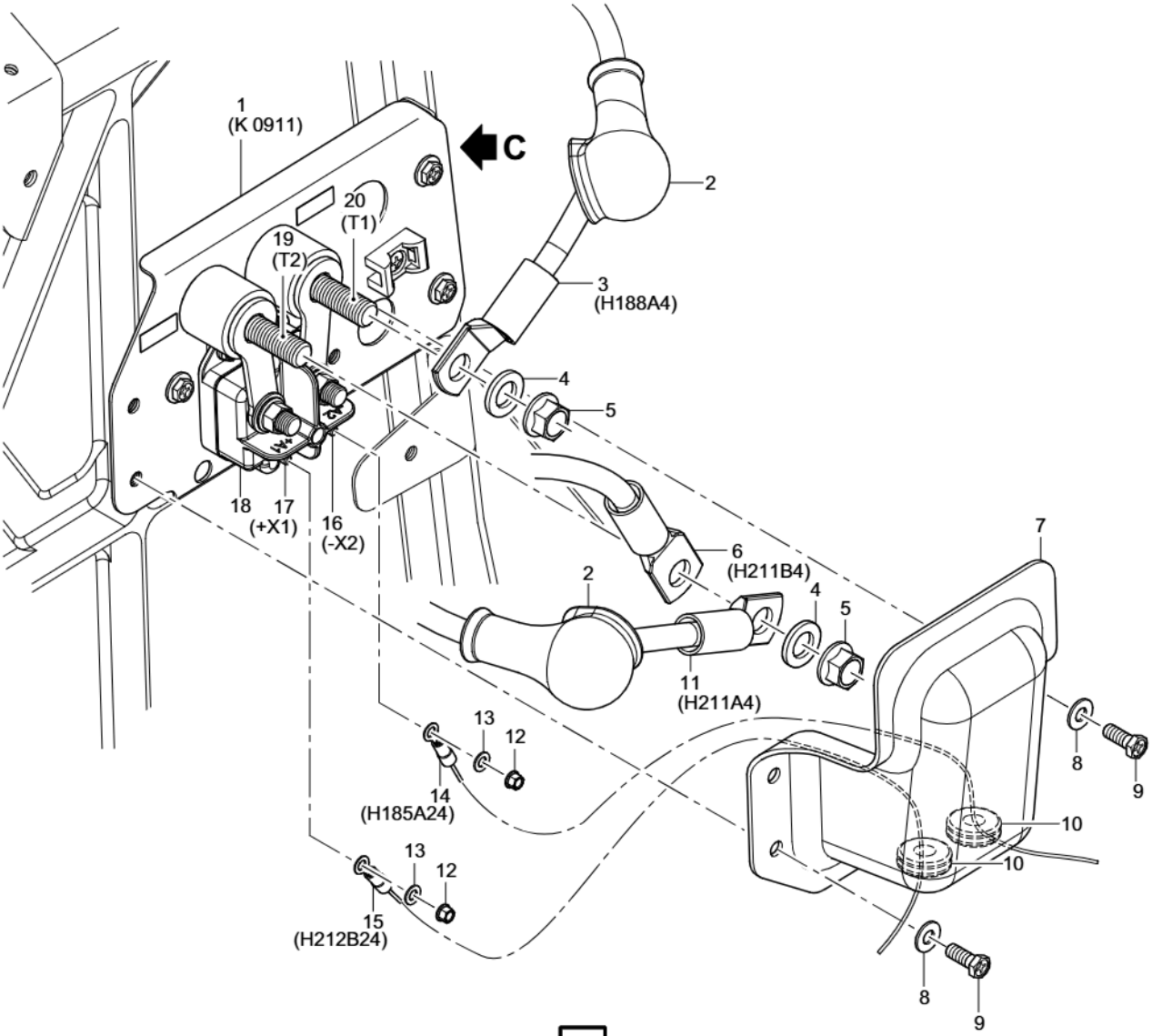
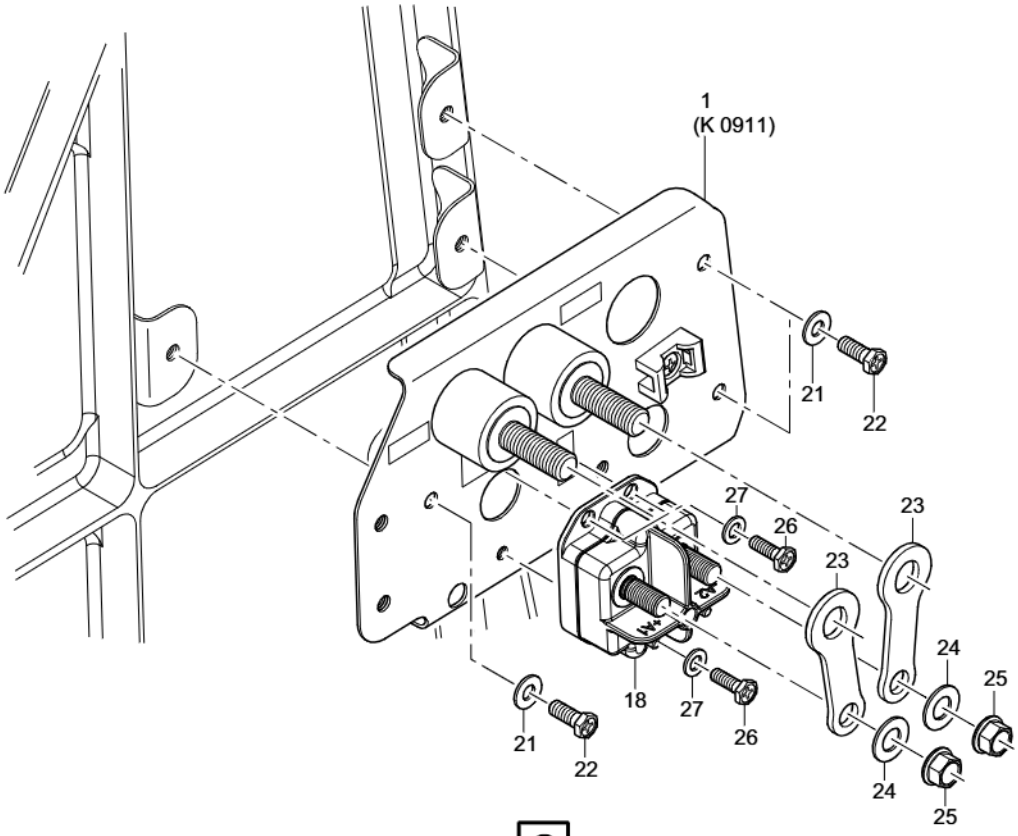


MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 1 of 9)

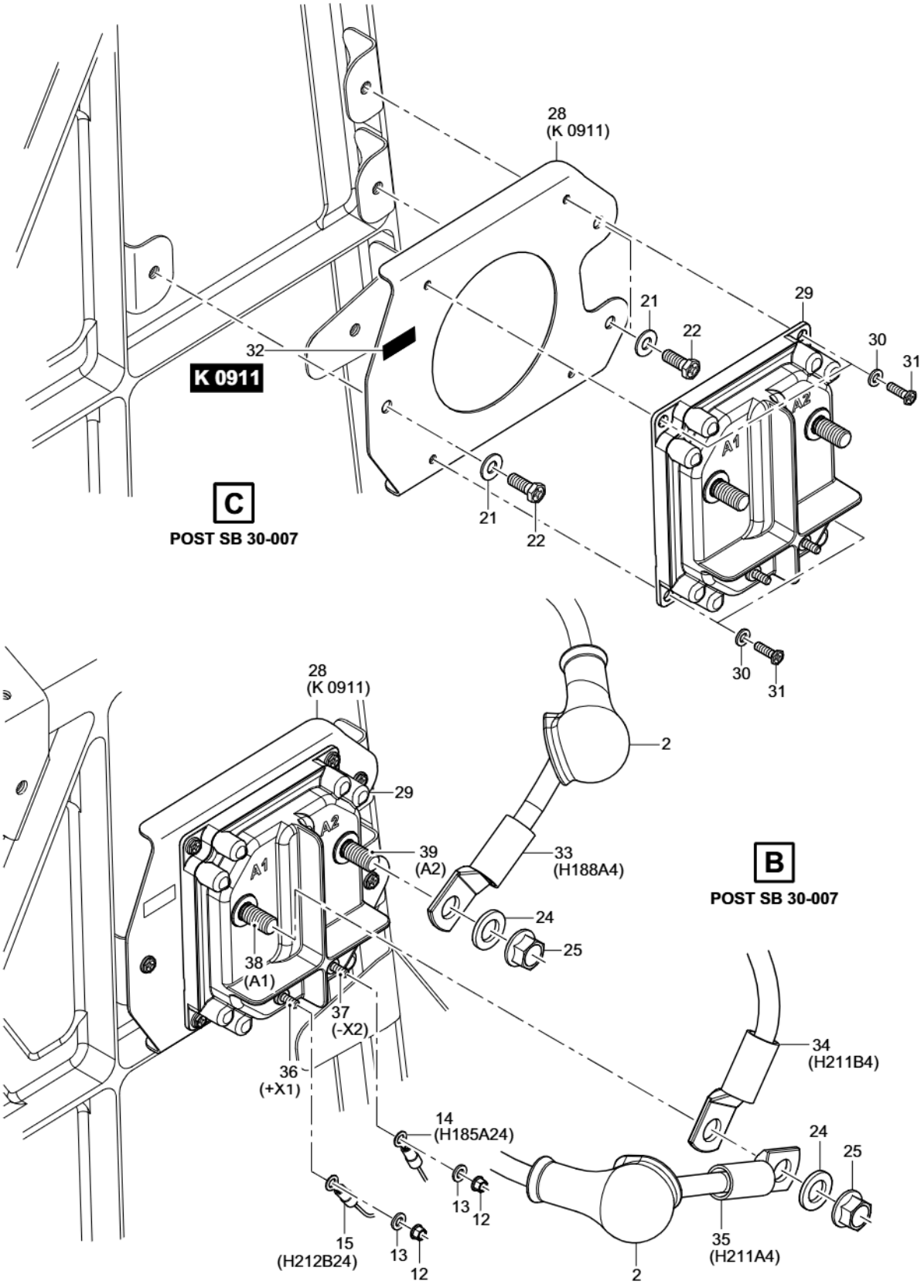


MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 2 of 9)

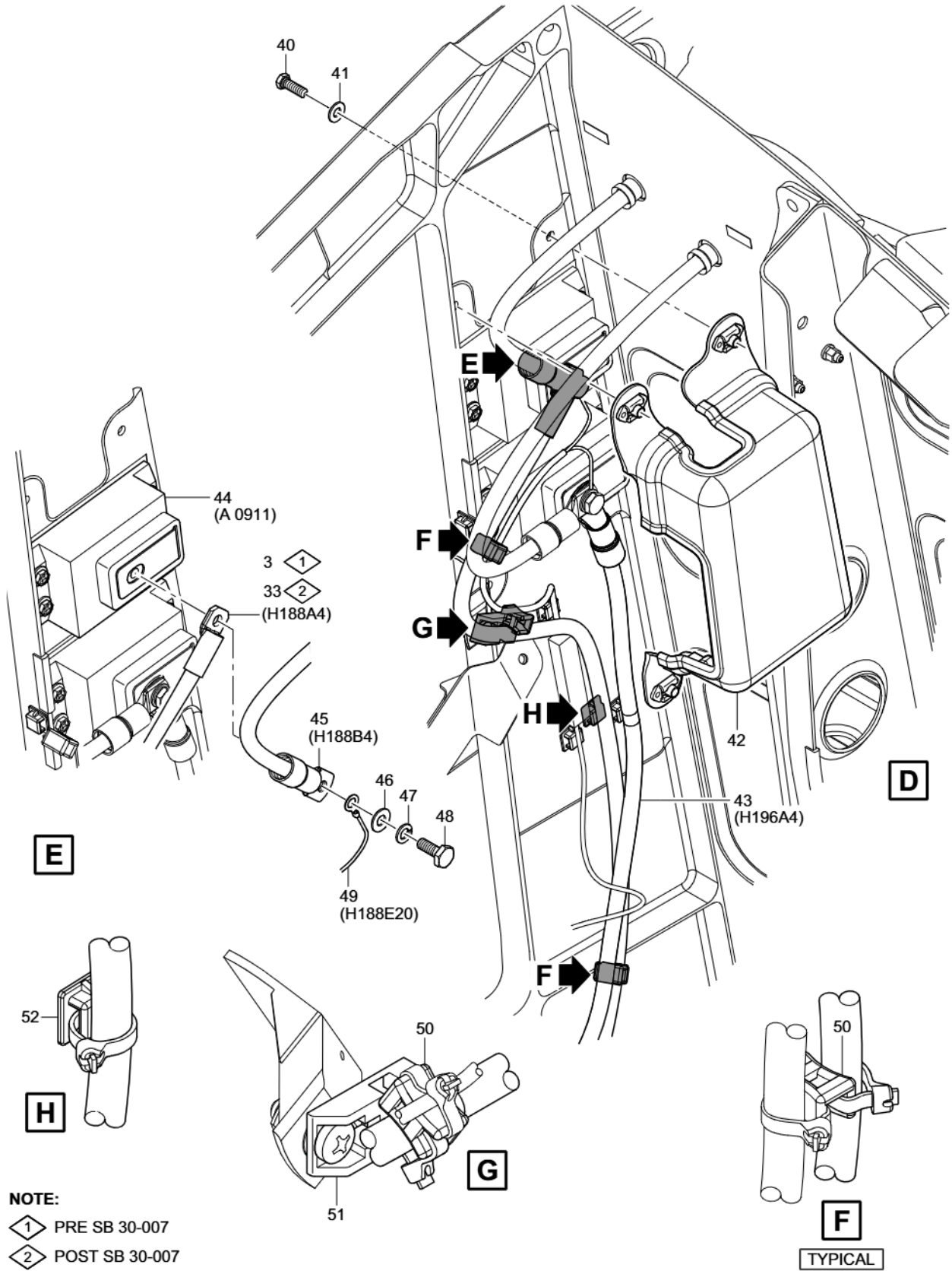


SB 4970

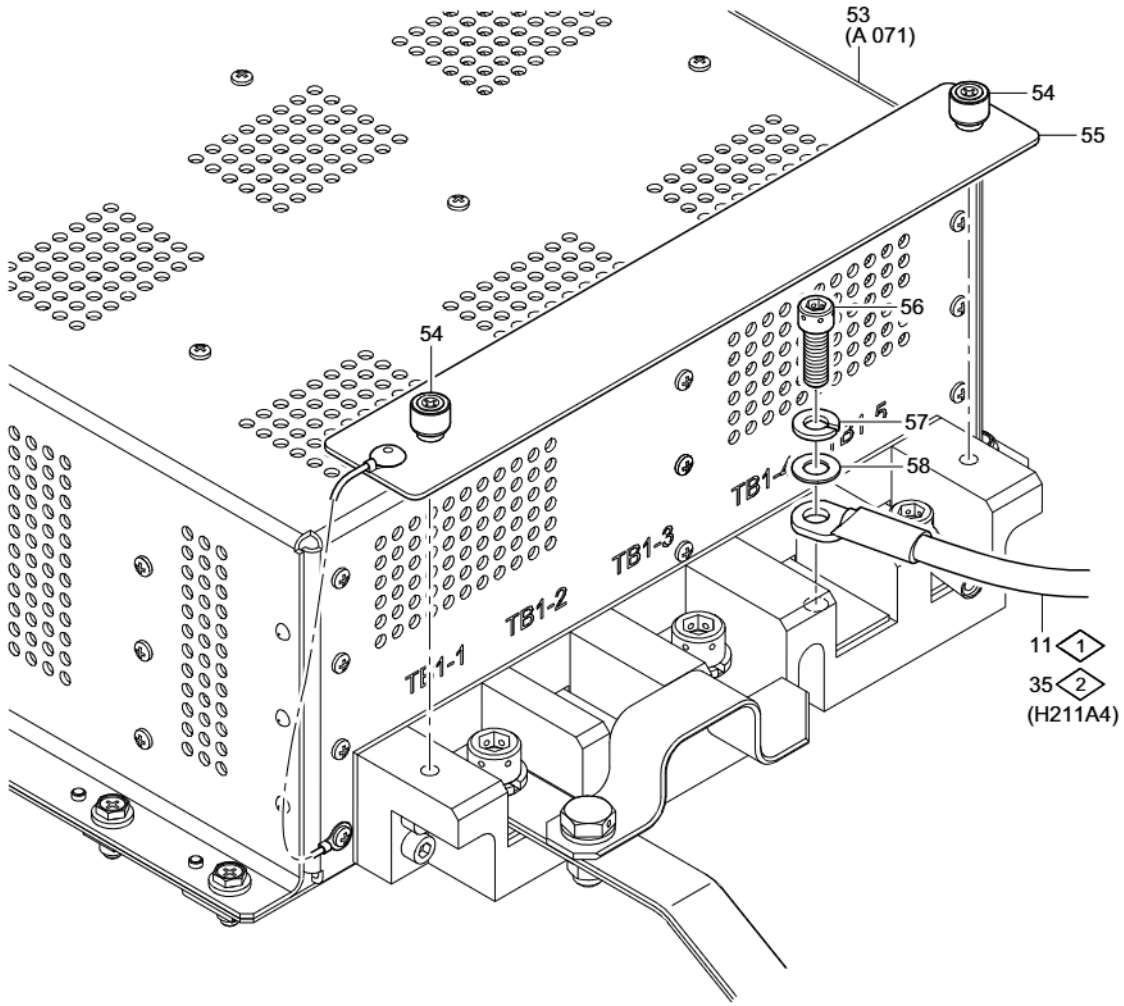
MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 3 of 9)



MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 4 of 9)



MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 5 of 9)



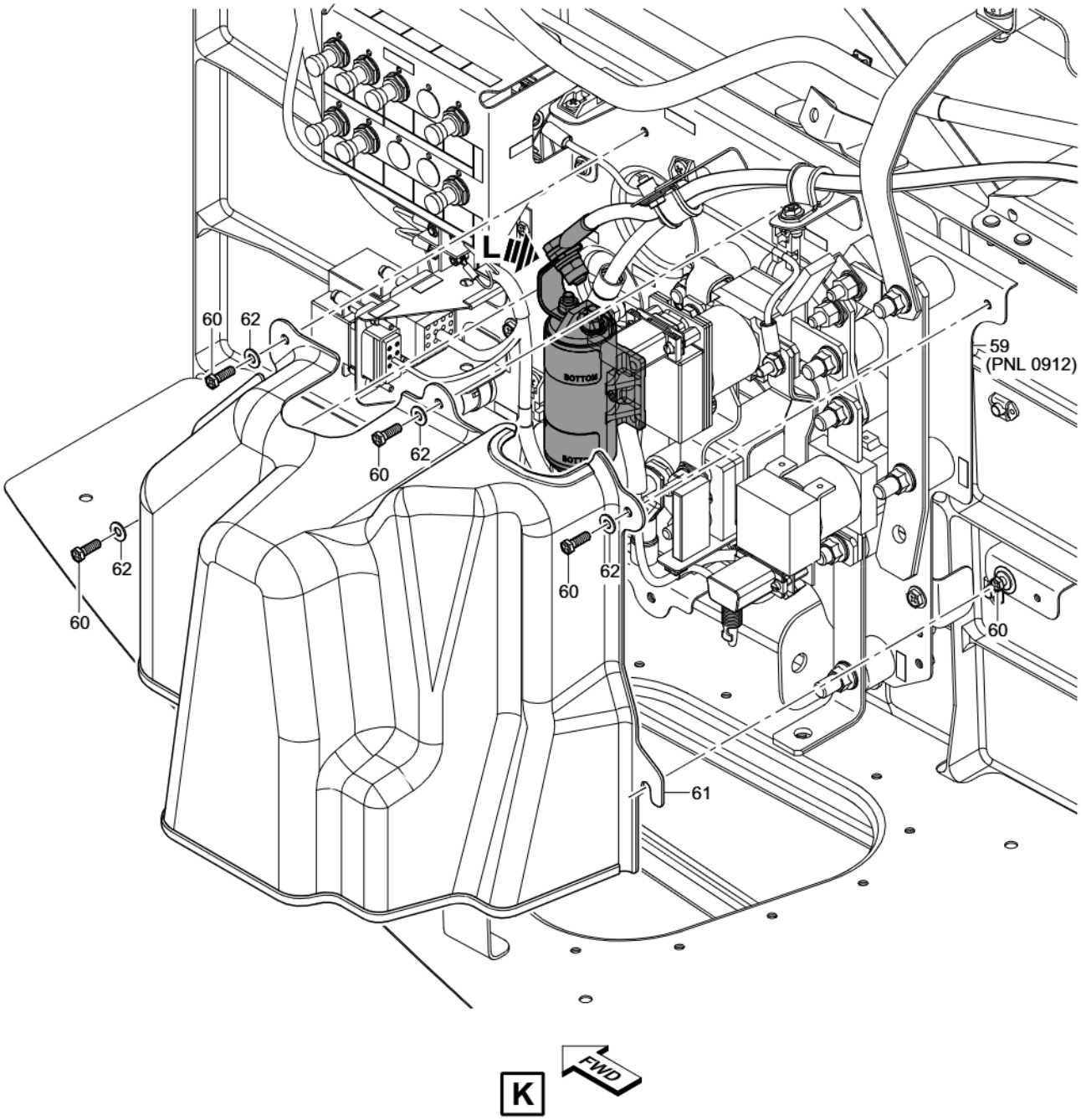
NOTE:

1 PRE SB 30-007

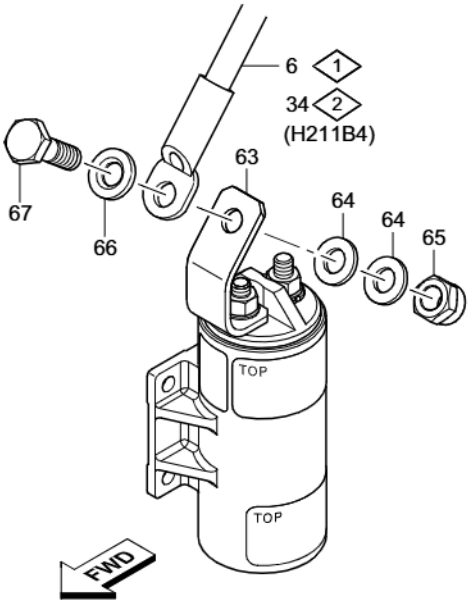
2 POST SB 30-007

SB 4973

MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 6 of 9)



MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 7 of 9)



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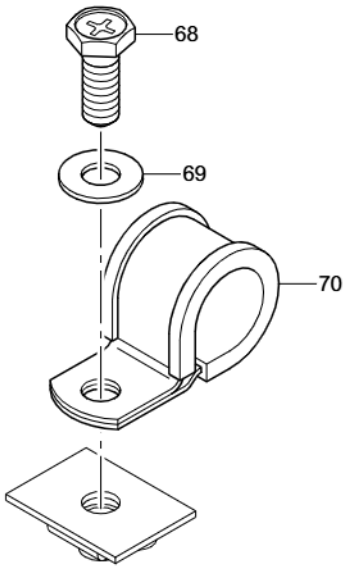
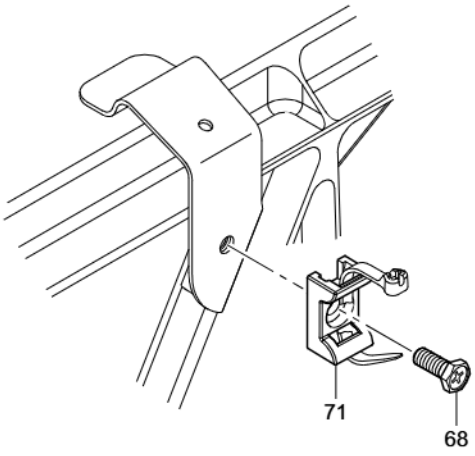


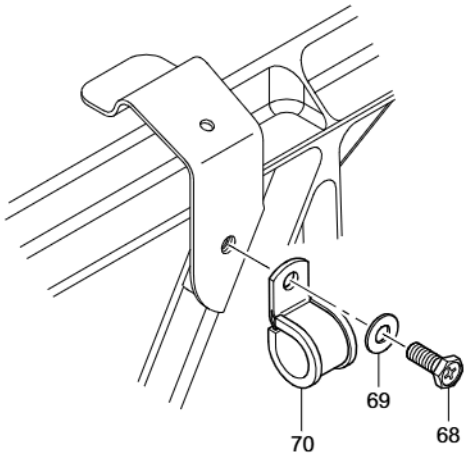
M

TYPICAL



N

POST SB 30-007



N

PRE SB 30-007

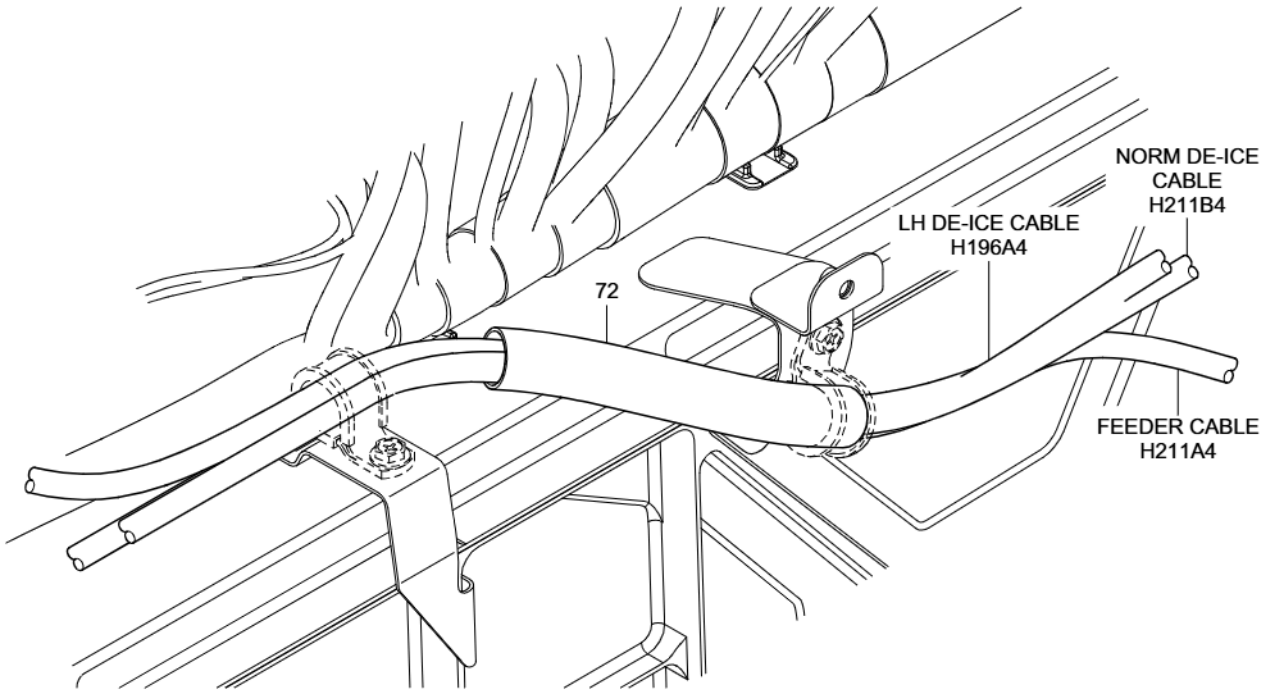
NOTE:

1 PRE SB 30-007

2 POST SB 30-007

SB 4975

MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 8 of 9)



P

SB 5002

MSN 101 thru MSN 337 - Replace the LH Solid State Relay
Figure 1 (Sheet 9 of 9)

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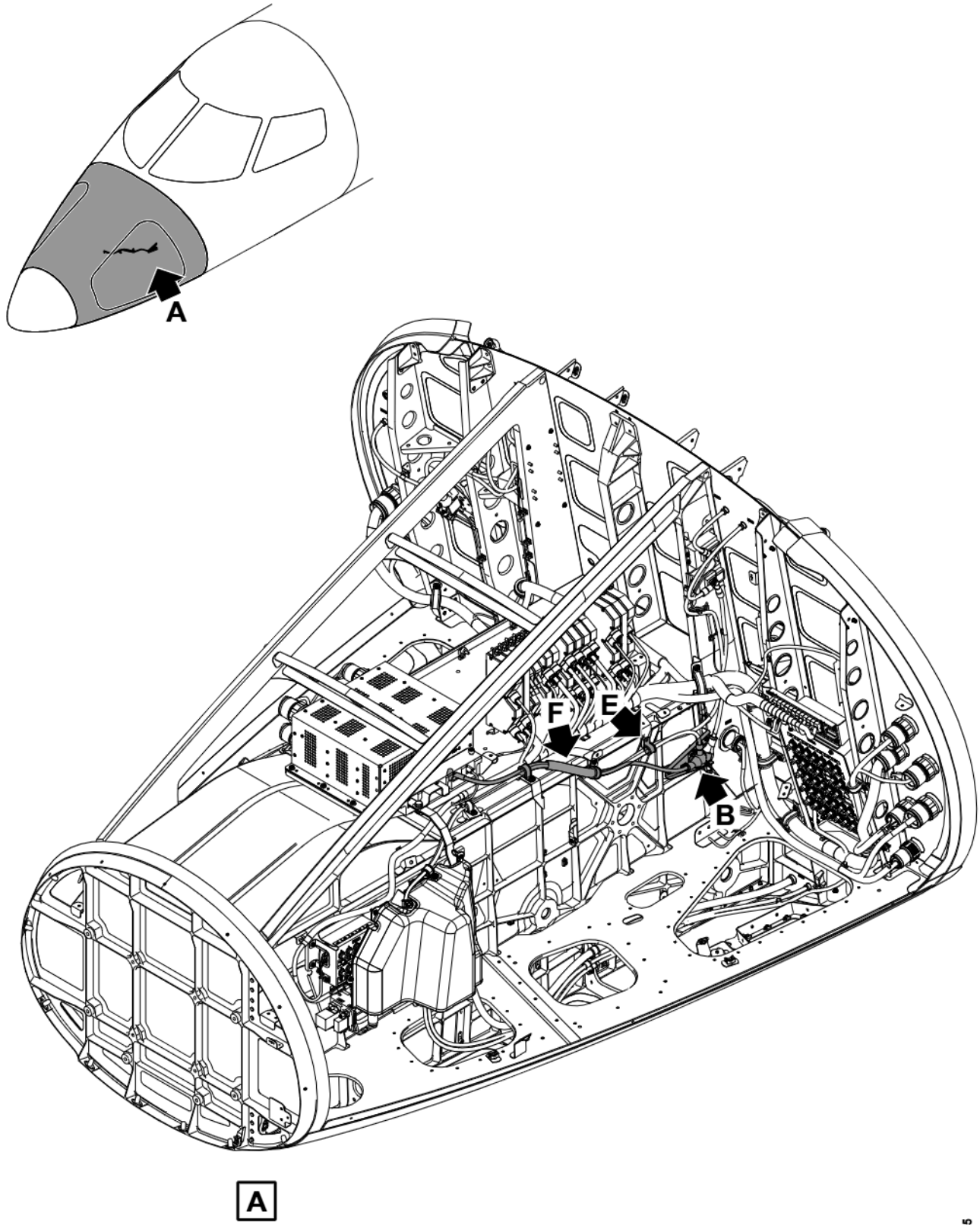
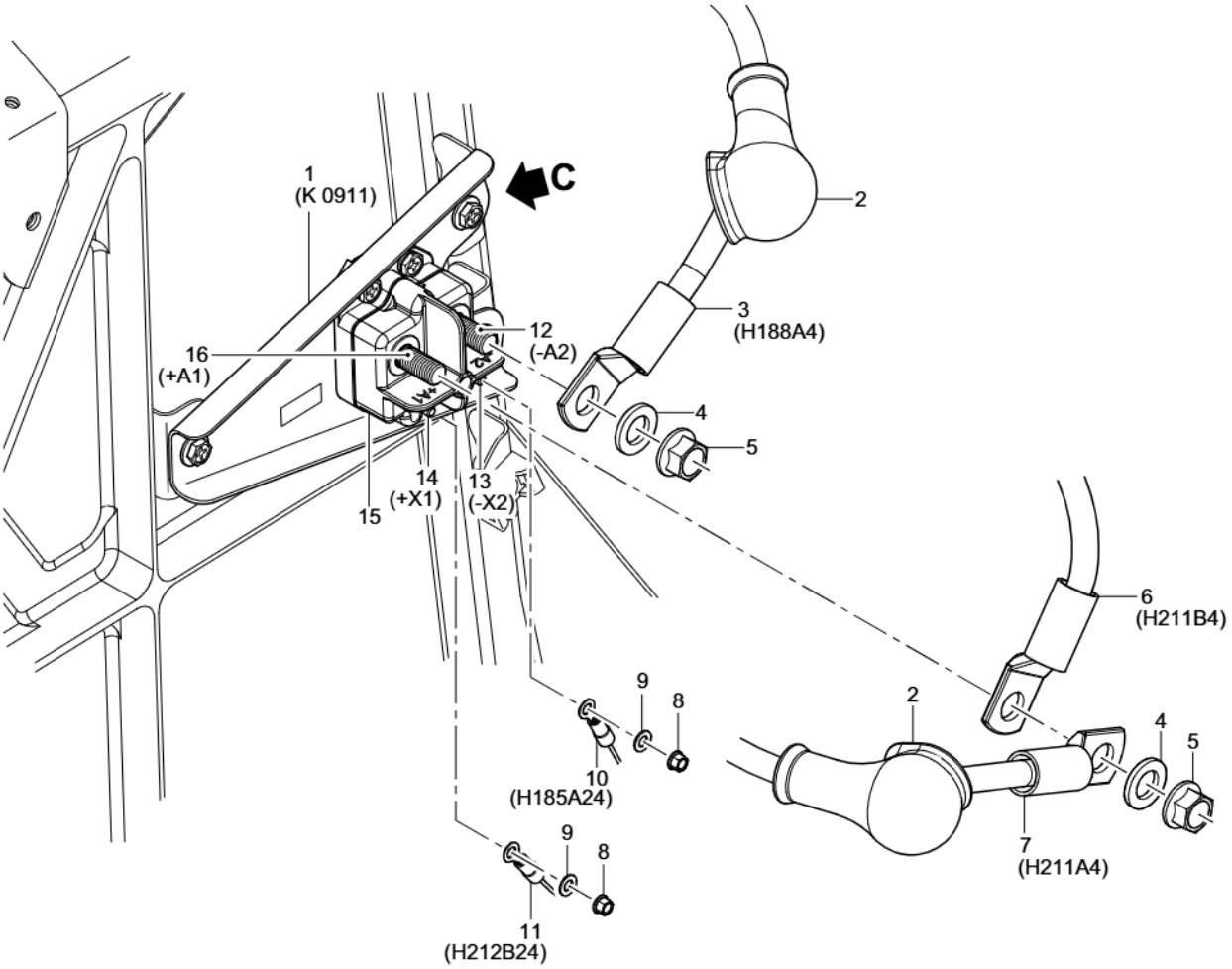


MSN 501 thru MSN 590 - Replace the LH Solid State Relay
Figure 2 (Sheet 1 of 5)

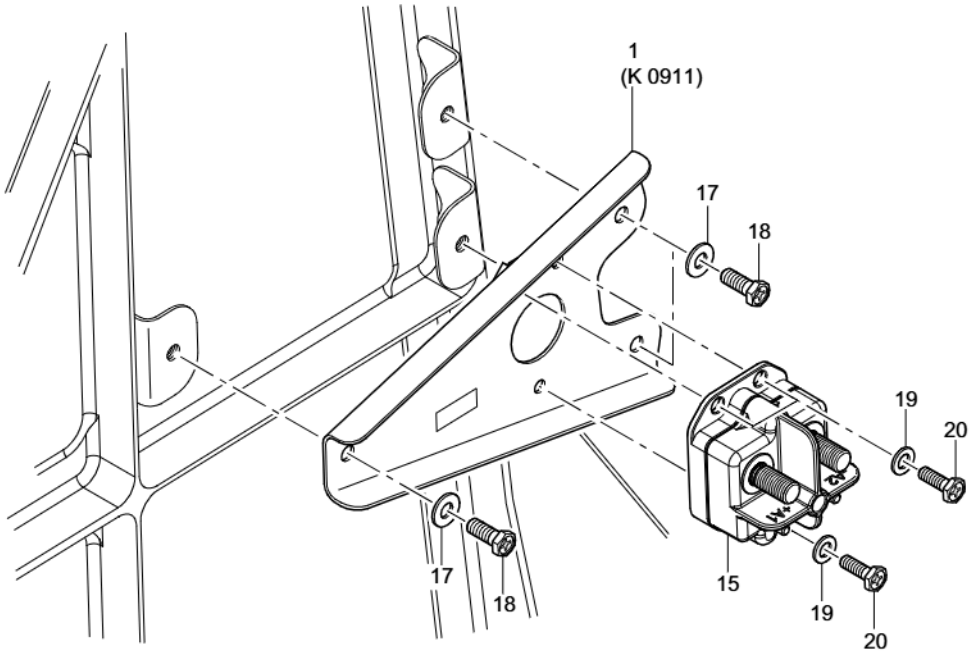


B

PRE SB 30-007

SB 4986

MSN 501 thru MSN 590 - Replace the LH Solid State Relay
Figure 2 (Sheet 2 of 5)

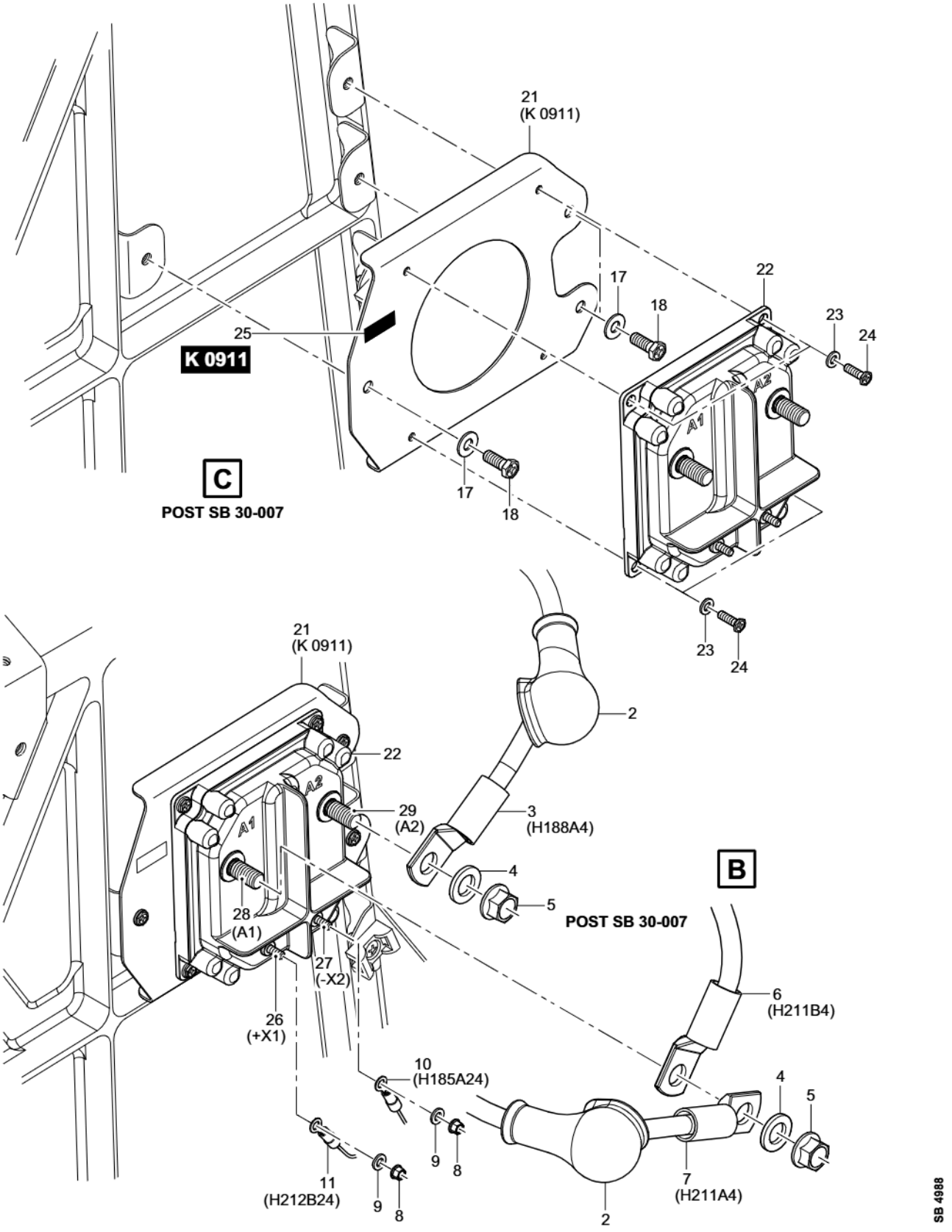


C

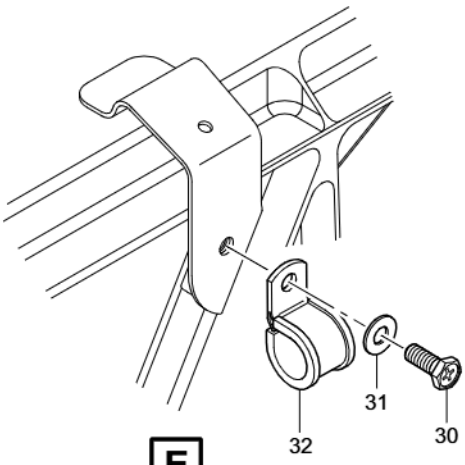
PRE SB 30-007

SB 4987

MSN 501 thru MSN 590 - Replace the LH Solid State Relay
Figure 2 (Sheet 3 of 5)

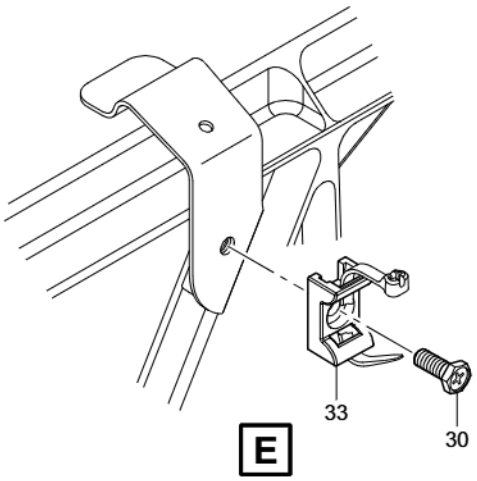


MSN 501 thru MSN 590 - Replace the LH Solid State Relay
Figure 2 (Sheet 4 of 5)



E

PRE SB 30-007



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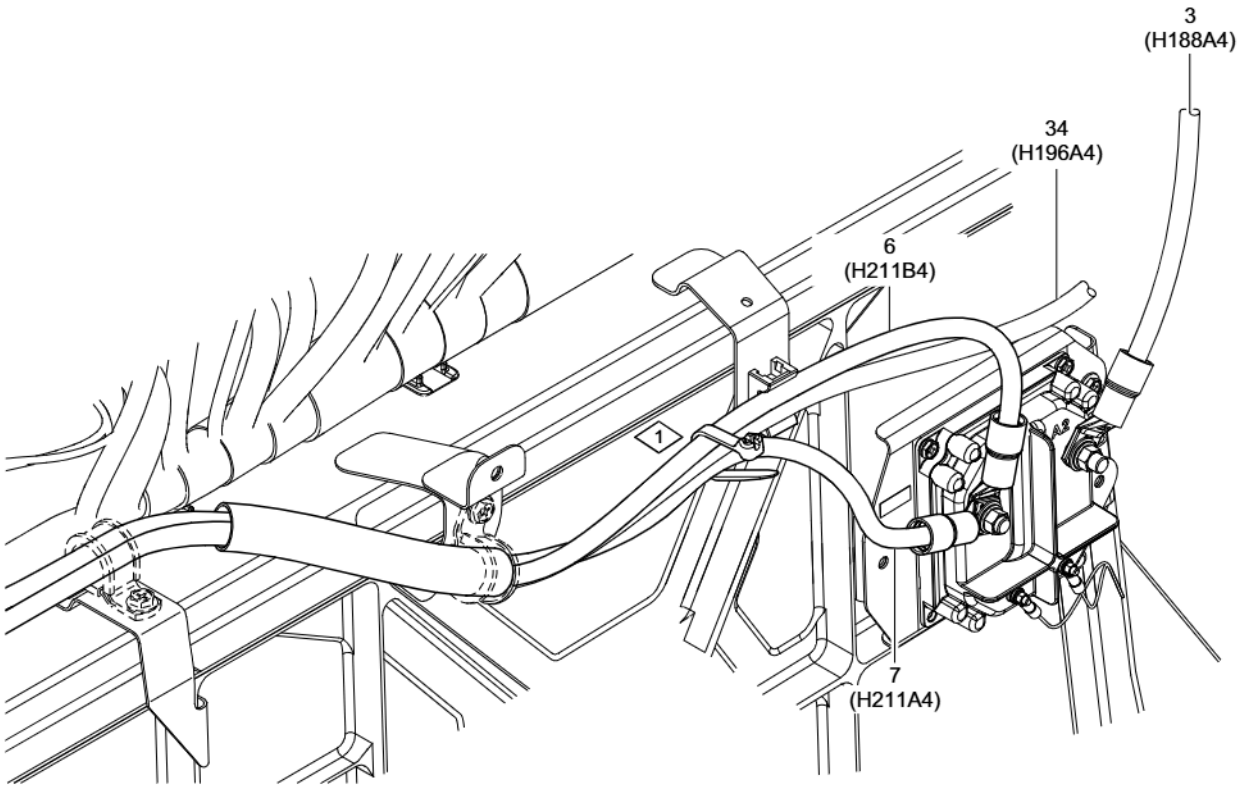
POST SB 30-007



F

NOTE:

1 APPROXIMATE CABLE TIE INSTALLATION POSITION

SB 4990

MSN 501 thru MSN 590 - Replace the LH Solid State Relay
Figure 2 (Sheet 5 of 5)

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Feedback Sheet for the Accomplishment of SB 30-007

The purpose of this feedback sheet is to provide CAMP
with the current information on each individual PC-24 aircraft.
Please complete the grey cells as appropriate using black ink and block letters.

Print out and send the completed feedback sheet to: fax@campsystems.com

Aircraft MSN		**Aircraft Registration**		**Total Airframe Hours**	
Service Center				**Total Landings**	

SB Accomplishment Information

We have embodied/accomplished this SB		Fully		Partially
The undersigned confirms the accomplishment of this Service Bulletin				
Date of accomplishment	Name	Signature		
Comments (procedure, kit quality, suggested improvements etc.)				

CAMP Feedback Sheet

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