



Sikorsky Aircraft Corporation

6900 Main Street
P.O. Box 9729
Stratford, Connecticut 06615-9129
(203) 386-4000

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SPECIAL SERVICE INSTRUCTIONS

SSI No. 92-121

Subject: ROTOR DRIVES – Main Gear Box (MGB) Oil Pressure, Temperature, and Pump Warning – Installation of Auxiliary Circuit Breaker Panel and M XMSN PRESS SWITCH Circuit Breaker Modification Kits

Purpose: To provide instructions for installation of auxiliary circuit breaker panel and M XMSN PRESS SWITCH circuit breaker modification kits.

Background: M XMSN OIL WARN circuit breakers have popped during flight, causing erroneous cockpit cautions and incorrect engagement of the MGB bypass valve. A modification kit was developed to introduce a separate circuit breaker for the MGB last jet pressure switch.

Model: S-92A®

Effectivity: S-92A model helicopters with Serial Numbers (S/Ns) 920006 through 920304 and 920311 through 920314.

Component: Modification Kit Collector, MGB Indications (92070-55095-011) for helicopters 920006 through 920304.

Splice and circuit breaker for helicopters 920297 through 920304 and 920311 through 920314.

Description: Helicopter is prepared for maintenance. Overhead panel installation is reworked, and new clips and brackets are installed. Wiring harnesses for circuit breakers are installed. Wiring modifications are installed. Auxiliary circuit breaker panel and M XMSN PRESS SWITCH circuit breaker are installed. Helicopter is returned to service.

Drawings Required for Modification:

None.

References:

- (1) ASB 92-63-037, One-Time Installation of Auxiliary Circuit Breaker Panel and M XMSN PRESS SWITCH Circuit Breaker Modification Kits, basic issue or later revision.

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- (2) CSN 92-089, Installation of Aircraft Management System (AMS) Version 7.1 Software in the Multifunction Displays (MFDs) and Data Concentrator Units (DCUs), basic issue or later revision.
- (3) ASB 92-63-024, Installation of Main Gear Box Vacuum Switch Assembly, basic issue or later revision.
- (4) ASB 92-63-027, Installation of Main Gear Box Oil Pressure Auto Bypass System and Activation of Aircraft Management System (AMS) 7.1 MGB OIL OUT Visual Warning, basic issue or later revision.
- (5) Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002.
- (6) Maintenance Manual, SA S92A-AMM-000, Tasks 31-10-06-900-001/-002.
- (7) Maintenance Manual, SA S92A-AMM-000, Tasks 52-43-02-900-001/-002.
- (8) Maintenance Manual, SA S92A-AMM-000, Tasks 54-40-01-900-003/-004.
- (9) Maintenance Manual, SA S92A-AMM-000, Tasks 63-25-01-900-003/-004.
- (10) Maintenance Manual, SA S92A-AMM-000, Tasks 71-62-05-900-001/-002.

Compliance: Sikorsky Aircraft recommends compliance with this Special Service Instructions (SSI) per ASB 92-63-037, One-Time Installation of Auxiliary Circuit Breaker Panel and M XMSN PRESS SWITCH Circuit Breaker Modification Kits, basic issue or later revision.

Approval: The design change specified by this document is FAA approved in accordance with the applicable requirements of United States Federal Aviation Regulations 14 CFR Part 29. FAA approval constitutes EASA, Transport Canada, ANAC, and JCAB approval under the terms of current bilateral agreement procedures.

Instructions:

- NOTE:
- A complete review of this Special Service Instructions (SSI) is recommended before starting the procedure.
 - Before beginning this procedure, use the material information list to inventory the kit. Make sure all parts are present and in serviceable condition.
 - The instructions in this SSI shall be done by personnel experienced in standard working/repair and safety practices.
 - Slight variations to the instructions contained herein are allowed, as long as the intent of the procedure is accomplished.
 - Removal of components not specifically referenced within this SSI may be required to complete the procedure outlined herein.
 - Where figure number(s) is not listed within individual step(s), figure(s) listed in preceding step is the controlling authority.

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- Make sure that the Aircraft Management System (AMS) is updated to version AMS 7.1 (or subsequent version) prior to performing the instructions outlined herein. (Refer to CSN 92-089, Installation of Aircraft Management System (AMS) Version 7.1 Software in the Multifunction Displays (MFDs) and Data Concentrator Units (DCUs), basic issue or later revision).
- Make sure that the MGB vacuum switch assembly is installed. (Refer to ASB 92-63-024, Installation of Main Gear Box Vacuum Switch Assembly, basic issue or later revision).
- Make sure that the MGB oil pressure auto bypass system and activation of AMS 7.1 MGB OIL OUT visual warning is installed. (Refer to ASB 92-63-027, Installation of Main Gear Box Oil Pressure Auto Bypass System and Activation of Aircraft Management System (AMS) 7.1 MGB OIL OUT Visual Warning, basic issue or later revision).
- If necessary, rebuild braid terminators using best shop practices with precoiled band (600-052-1), tape (A-A-59163, DMYNO-6A669-001 and 3M-60), and insulating sleeve (SS7072M2000Z017).
- Clamp size may be increased as needed.

A. Prepare helicopter for maintenance:

WARNING

TO PREVENT ELECTRICAL SHOCK OF PERSONNEL OR POSSIBLE DAMAGE TO HELICOPTER COMPONENTS, MAKE SURE TO TURN OFF ALL ELECTRICAL POWER.

- (1) Turn off all helicopter electrical and hydraulic power.
- (2) Engage rotor brake.
- (3) Remove overhead console circuit breaker panel (OVHD CNSL CB PNL). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 31-10-06-900-001).
- (4) If necessary, remove duct from top Left Hand (LH) cabin rack, top deck Left Hand Side (LHS) horse collar fairing, and top deck LHS cabin heater bleed air tube.
- (5) Remove the following access panels:
 - (a) Left hand air inlet cover plate. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 71-62-05-900-001).
 - (b) Left hand and right hand oil cooler access doors. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 52-43-02-900-001).
 - (c) Oil cooler platform. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 63-25-01-900-003).
 - (d) Rear cover. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 54-40-01-900-003).

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- NOTE:
- Refer to paragraphs B. through H. for helicopters with S/Ns 920006 through 920296.
 - Refer to paragraph I. for helicopters with S/Ns 920297 through 920304 and 920311 through 920314.

B. Install modification kit clips and brackets installation (M/K CLIPS & BRKTS) (92070-20115-015) as follows (Refer to Figure 1):

- (1) Remove screws (SS5300C0809) and flat washers (NAS1149FN832P) from ceiling (92207-01101-151) (Sheet 2, View D-D).
- (2) Trim ceiling (92207-01101-151) (two places) flush to existing edge.
- (3) Remove rivets (MS20470AD4) from overhead panel support assembly (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) (Sheet 1, Section A-A).
- (4) Match drill Right Hand (RH) circuit panel assembly (92070-20115-051) to overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) (Sheet 1, Section A-A) (six places). Hole diameters to be 0.200 - 0.210 inch (Sheet 2, View C-C).
- (5) Match drill panel (92070-20115-119) to overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) (six places). Hole diameters to be 0.200 - 0.210 inch.
- (6) Match drill RH hinge (92070-20115-118) to overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) (four places). Hole diameters to be 0.192 - 0.203 inch (Sheet 1, Section B-B).
- (7) Match drill LH hinge (92070-20115-117) to overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) (four places). Hole diameters to be 0.192 - 0.203 inch.
- (8) If necessary, trim panel (92070-20115-119) to achieve best fit.
- (9) Deburr all sharp edges and drilled holes.
- (10) Touch up trimmed edges as follows:
 - (a) Clean trimmed areas using a low-lint cloth (A-A-59323 or equivalent) dampened with isopropyl alcohol (TT-I-735 or equivalent).
 - (b) Apply chemical conversion coating (MIL-DTL-5541 Class 3 or equivalent) to trimmed areas.
 - (c) Apply one coat of epoxy primer (MIL-PRF-23377, or Axalta (Formerly DuPont) Corlar 13580S, or equivalent) to all reworked edges.
 - (d) Apply two coats of black paint (MIL-PRF-85285, FED-STD-595 color no. 37038 or equivalent) to reworked edges on panel (92070-20115-119).

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- NOTE:
- Sealing compound (AMS-3265 or equivalent) shall extend at least 0.25 inch beyond fastener, and be crowned at least 0.100 inch thick from fastener.
 - All permanent fasteners shall be wet installed using sealing compound (AMS-3265 or equivalent).

(11) Using sealing compound (AMS 3265 or equivalent), install nutplates (MS21076L08N) at RH hinge (92070-20115-118) location with rivets (CCR244CS-3-02).

(12) Using sealing compound (AMS 3265 or equivalent), install nutplates (MS21076L08N) at LH hinge (92070-20115-117) location with rivets (CCR244CS-3-02).

(13) Using sealing compound (AMS 3265 or equivalent), install nutplate (MS21076L3N) on overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) with rivets (CCR244CS-3-02) (Section A-A).

(14) Using sealing compound (AMS 3265 or equivalent), install nutplates (MS21076L04N) on overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) using rivets (CCR244CS-3-02).

(15) Install rivets (CR3214-4-03 or AF3214-4-03) wet with sealing compound (AMS 3265 or equivalent) on overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609).

(16) Install LH hinge (92070-20115-117) as follows:

- (a) Clean area using a low-lint cleaning cloth (A-A-59323 or equivalent) dampened with isopropyl alcohol (TT-I-735 or equivalent).

NOTE: Do not prime or paint hatched area. (Refer to Figure 1, Note 4).

- (b) Apply chemical conversion coating (MIL-DTL-5541 Class 3 or equivalent) to surfaces that will mate with hinge.
- (c) Install LH hinge (92070-20115-117) on overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) with screws (MS27039-0807) and flat washers (NAS1149FN832P).
- (d) Perform electrical bonding check using milliohmmeter (R1L-E2 or equivalent) between points E and F. Resistance shall not exceed 2.5 milliohms (Sheet 2, View C-C).
- (e) Install LH hinge (92070-20115-117) on panel (92070-20115-119) with rivets (NAS1097AD4-9) wet with sealing compound (AMS 3265 or equivalent) (Sheet 2, View C-C).
- (f) Perform electrical bonding check using milliohmmeter (R1L-E2 or equivalent) between points A and B. Resistance shall not exceed 2.5 milliohms (Sheet 1, Section B-B).

(17) Install RH hinge (92070-20115-118) as follows:

- (a) Clean area using a low-lint cloth (A-A-59323 or equivalent) dampened with isopropyl alcohol (TT-I-735 or equivalent).

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NOTE: Do not prime or paint hatched area. (Refer to Figure 1, Note 4).

- (b) Apply chemical conversion coating (MIL-DTL-5541 Class 3 or equivalent) to surfaces that will mate with hinge.
- (c) Install RH hinge (92070-20115-118) on overhead support installation (92207-01101), overhead panel (92070-20017), or overhead panel relay mount (92CEO-37609) with screws (MS27039-0807) and flat washers (NAS1149FN832P).
- (d) Perform electrical bonding check using milliohmmeter (R1L-E2 or equivalent) between points G and H. Resistance shall not exceed 2.5 milliohms (Sheet 2, View C-C).
- (e) Install RH hinge (92070-20115-118) on RH circuit panel assembly (92070-20115-051) using rivets (NAS1097AD4-9) wet with sealing compound (AMS 3265 or equivalent) (Sheet 2, View C-C).
- (f) Perform electrical bonding check using milliohmmeter (R1L-E2 or equivalent) between points C and D. Resistance shall not exceed 2.5 milliohms (Sheet 1, Section B-B).
- (18) Secure RH circuit panel assembly (92070-20115-051) using captive screws (SS5301-0808) and flat washer (NAS1149FN832P).
- (19) Secure panel (92070-20115-119) using captive screws (SS5301-0808) and flat washer (NAS1149FN832P).
- C. Install portion of Modification Kit Auxiliary Circuit Breaker Panel Provision (M/K, PROV, AUX CB PNL) (92070-55075-011) as follows (Refer to Figure 2, Sheet 1):

NOTE: Finished length of wire (P5335G14), part of LH W/G CKPT APU (92552-55096-041), shall be 10.50 - 10.75 inches.

- (1) Install button plugs (SFHP5006L01BK) and circuit breaker (MS3320-1) on AUX CB PNL.
- (2) Install cover assembly (MS18029-2S-3), terminal (MS27212-2-3), screws (MS35206-217), nuts (MS35650-304), lock washers (MS35338-138), flat washers (NAS1149C0332R), washers (MS14151-2), MTG strip (MS3373-B2), and MTG strip (MS3373-A2), using existing nutplate onto AUX CB PNL (Sheet 2).
- D. Install Modification Kit Left Hand Cockpit Auxiliary Power Unit (M/K LH CKPT APU) (92070-55096-012) as follows:

NOTE: Wiring group cockpit auxiliary power unit (W/G CKPT APU) (92552-55096-041) is a loose wire group.

- (1) Install W/G LH CKPT APU (92552-55096-041).
- (2) Route new wire (P5335F10) along existing wiring harness, from terminal board TB108 to terminal board TB122 (Figure 3).
- (3) Install terminal (M7928/1-67) on end of wire (P5335F10) near terminal board TB108 on OVHD CNSL CB PNL.
- (4) Install terminal (M7928/1-65) on end of wire (P5335F10) near terminal board TB122 on AUX CB PNL.
- (5) Install new wire (P5335F10) on terminal board TB108-1 and terminal board TB122-3.

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- (6) Tie new wire (P5335F10) to existing wiring harness using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
 - (7) Route new wire (P5335G14) along existing wiring harness, from terminal board TB122 to M XMSN PRESS SWITCH circuit breaker (CB4004).
 - (8) Install terminal (M7928/1-51) on end of wire (P5335G14) near terminal board TB122 on AUX CB PNL.
 - (9) Install terminal (M7928/1-50) on end of wire (P5335G14) near M XMSN PRESS SWITCH circuit breaker (CB4004) on AUX CB PNL.
 - (10) Install new wire (P5335G14) on terminal board TB122-3 and terminal 2 of M XMSN PRESS SWITCH circuit breaker (CB4004).
 - (11) Tie new wire (P5335G14) to existing wiring harness using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
 - (12) Route new wire (W4422D24) along existing wiring harness LH cockpit main (92552-01101-046), from M XMSN PRESS SWITCH circuit breaker (CB4004) near station (STA) 180.00, Right Buttline (RBL) 10.00, Water Line (WL) 257.00, to electrical connector (J111) near STA 221.50, Left Butt Line (LBL) 28.35, WL 251.00 (Figure 4, Sheets 1 and 2).
 - (13) Install terminal (M7928/1-9) on end of wire (W4422D24) near M XMSN PRESS SWITCH on AUX CB PNL (Figure 3).
 - (14) Crimp contact (M39029/56-348) on end of wire (W4422D24) near electrical connector (J111).
 - (15) Install new wire (W4422D24) to terminal 1 of M XMSN PRESS SWITCH circuit breaker (CB4004).
 - (16) Using contact insertion tool (294-40 or equivalent), install new wire (W4422D24) on M XMSN PRESS SWITCH and electrical connector pin (J111-61).
 - (17) Install sleeve marker (SS7094-S3-175-9) on wire (W4422D24) near electrical connector (J111).
 - (18) Using a fine point permanent marker (commercially available or equivalent), print identification number (92552-55096-041) clearly on sleeve marker (SS7094-S3-175-9).
 - (19) Tie new wire (W4422D24) to existing wiring harness LH cockpit main (92552-01101-046) using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
- E. Install Modification Kit Left Hand Cabin Auxiliary Power Unit (M/K LH CBN APU) (92070-55096-013) as follows:
- NOTE: Wiring group left hand cabin auxiliary power unit (W/G LH CBN APU) (92552-55096-042) is a loose wire group.
- (1) Install W/G LH cabin APU (92552-55096-042).
 - (2) Route new wire (W4422C24) along existing wiring harness LH cabin main (92552-02101-045), from electrical connector (P111) near STA 237.50, WL 251.00, LBL 35.00, to electrical connector (P449) near STA 237.50, WL 265.00, LBL 16.50 (Figure 5, Sheets 1 and 2).

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- (3) Install insulating sleeve (SS7072A0063Z010) on wire (W4422C24) near electrical connector (P111) (Figure 3).
- (4) Crimp contact (M39029/58-360) on end of wire (W4422C24) near electrical connector (P111).
- (5) Crimp contact (M39029/56-351) on end of wire (W4422C24) near electrical connector (P449).
- (6) Using contact insertion tool (294-40 or equivalent), install new wire (W4422C24) in electrical connector pin (P449-A) and electrical connector pin (P111-61).
- (7) Install sleeve marker (SS7094-S3-175-9) on wire (W4422C24) near electrical connector (P111).
- (8) Using a fine point permanent marker (commercially available or equivalent), legibly print identification number (92552-55096-042) on sleeve marker (SS7094-S3-175-9).
- (9) Tie new wire (W4422C24) to existing wiring harness LH cabin main (92552-02101-045) using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).

F. Install Modification Kit Left Hand Top Deck FLD (92070-55096-016) as follows:

- NOTE:
- Wiring group XMSN (W/G XMSN) (92552-55096-043) is a loose wire group.
 - Some clamp set ups will require two people for removal/installation.

- (1) Install W/G LH top deck (92552-55096-043).
- (2) Route new wire (W4422B24) along existing wiring harness LH T/D main (92552-04101-046), from electrical connector (J449) near STA 250.60, WL 268.00, LBL 16.50, then along existing wiring harness top deck hums (92602-04103-043) to electrical connector (J453R), STA 364.00, WL 360.00, LBL 12.40. Cover wire with HR ½ sleeving (625300413 or equivalent) and wire braid (AA59569R36T0203 or equivalent). Terminate braid at braid terminator at rear of electrical connector J449. (Refer to Figure 6, Sheets 1 and 2).
- (3) Install solder sleeves (S03-02-R-100), insulating sleeves (SS7072B0093S010), and precoiled bands (600-052-1) on wire (W4422B24) (Figure 3).
- (4) Crimp contact (M39029/58-363) on end of wire (W4422B24) near electrical connector (J449).
- (5) Crimp contact (M39029/56-348) on end of wire (W4422B24) near electrical connector (J453R).
- (6) Using contact insertion tool (294-40 or equivalent), install new wire (W4422B24) in electrical connector pin (J449-A) and electrical connector pin (J453R-1).
- (7) Terminate solder sleeves (S03-02-R-100) to rings of electrical connectors (J449 and J453R).
- (8) Install sleeve marker (SS7094-S3-175-9) on wire (W4422B24) near electrical connector (J453R).
- (9) Using a fine point permanent marker (commercially available or equivalent), print identification number (92552-55096-043) clearly on sleeve marker (SS7094-S3-175-9).

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- (10) Tie new wire (W4422B24) to existing wiring harnesses LH T/D main (92552-04101-046) and top deck hums (92602-04103-043) using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).

G. Install Modification Kit MGB XMSN (92070-55096-017) as follows:

- NOTE:
- Wiring group transmission FLD (W/G XMSN FLD) (92552-55096-045) is a loose wire group.
 - Some clamp set ups will require two people for removal/installation.

- (1) Install W/G XMSN FLD (92552-55096-045).
- (2) Cover wire (W4422A20) with shrink tubing (SS7072E0250ZXXX) (Figure 3).
- (3) Route new wire (W4422A20) along existing wiring harness HUMS sensor, MGB (92602-15100-044), from electrical connector (P453R) near STA 354.00, WL 264.00, LBL 10.80, then breakout from HUMs sensor, MGB (92602-15100-044) to route along existing wiring harness H/A transmission (92552-15101-043/-044/-045/-046 or -047) near STA 340.00, WL 269.00, LBL 16.00. (Refer to Figure 7, Sheets 1 and 2).
- (4) Route new wire (W4422A20) along existing wiring harness H/A transmission (92552-15101-043/-044/-045/-046 or -047) to electrical connector (P417) near STA 309.00, WL 270.00, LBL 22.00 (Sheet 3).
- (5) Install solder sleeves (S03-02-R-100) on wire (W4422A20) (Figure 3).
- (6) Install insulated sleeves (SS7072B0093S010) on wire (W4422A20).
- (7) Install precoiled band (600-052-1) near electrical connector (P453R).
- (8) Install new splice (M81824/1-1) between jumper wire (JMPRP453R-1-22) and wire (W4422A20) at splice group (SGP453R-1).
- (9) Crimp contact (M39029/58-360) on end of jumper wire (JMPRP453R-1-22) near electrical connector (P453R).
- (10) Crimp socket contact (M39029/5-115) on end of wire (W4422A20) near electrical connector (P417).
- (11) Remove splice (M81824/1-2) at splice group (SGP401) from wires (W4400F20, W4400E20, and JMPRP401-U-20) (Figure 3).
- (12) Using contact insertion tool (294-40 or equivalent), disconnect wire (W4400E20) from electrical connector pin (P417-2).
- (13) Remove existing solder sleeve from shield (CGP417).
- (14) Install caps (324693) on wire (W4400E20) (two places).
- (15) Install new splice (M81824/1-1) between jumper wire (JMPRP401-U-20) and wire (W4400F20) at splice group (SGP401-1).
- (16) Terminate solder sleeves (S03-02-R-100) to rings of electrical connectors (P453R and P417).

- (17) Using contact insertion tool (294-40 or equivalent), install new jumper wire (JMPRP453R-1-22) in electrical connector pin (P453R-1).
 - (18) Using contact insertion tool (294-40 or equivalent), install wire (W4422A20) in electrical connector pin (P417-2).
 - (19) Install sleeve marker (SS7094-S3-175-9) on wire (W4422A20) near electrical connector (P453R).
 - (20) Using a fine point permanent marker (commercially available or equivalent), print identification number (92552-55096-045) clearly on sleeve marker (SS7094-S3-175-9).
 - (21) Tie new wire (W4422A20) to existing wiring harnesses HUMS sensor, MGB (92602-15100-044) and H/A transmission (92552-15101-043/-044/-045/-046 or -047) using lacing tape (SS7057-2). (Refer to Figure 7, Sheets 1-3, and Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
- H. Continue installation of M/K, PROV, AUX CB PNL (92070-55075-011) as follows (Refer to Figure 2):

NOTE:

- All wires routed across hinge shall be routed with minimum slack achievable while allowing for full relative motion of hinged panel.
- All wires shall be routed with existing electrical mains.
- Make sure sufficient slack is added to the wire routed along the hinge, between wire tie and terminal lug. This is to make sure the lug is not loaded when cover is opened. It is permissible to route wire around terminal block and tie off to surrounding wire or clamp.

- (1) Cut insulation tubing (SS7114FT02-0050) lengthwise and install on W/G LH CKPT APU (92552-55096-041), and tie to wire bundle using lacing tape (SS7057-2). (Refer to Sheet 1, and Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).

NOTE: Insulation tubing (SS7114FT02-0050) and spiral wrap (SW-31 BK005) may be trimmed as required.

- (2) Install spiral wrap (SW-31 BK005) over insulation tubing (SS7114FT02-0050), and install on wire bundle using lacing tape (SS7057-2). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
- (3) Install tie down straps (MS3387-1-9) on W/G LH CKPT APU (92552-55096-041). (Refer to Maintenance Manual, SA S92A-AMM-000, Task 20-20-02-910-002).
- (4) Bond identification tape (SS9084-122 and SS9031-1) to AUX CB PNL as follows:
 - (a) Thoroughly clean surface where identification tape (SS9084-122 and SS9031-1) will be bonded by wiping with a clean cheesecloth (CCC-C-440 or equivalent) moist with isopropyl alcohol (TT-I-735 or equivalent).
 - (b) Dry surface using a clean dry cheesecloth (CCC-C-440 or equivalent).
 - (c) Remove backing paper from adhesive and install identification tape (SS9084-122 and SS9031-1).

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- (d) Using a roller (commercially available or equivalent), apply firm pressure to identification tape (SS9084-122 and SS9031-1) to obtain intimate contact of adhesive to the bonding surface.
- (5) Install clamp (AS21919DG1), flat washer (NAS1149D0363K), screw (MS27039-1-15), and spacer (NAS43DD3-32FC), using existing nutplate onto AUX CB PNL.
- (6) Remove screw (MS27039-1-09), nut (MS21044N3), and flat washer (NAS1149D0332K) securing clamp (MS21919WDG8) to electrical mains.
- (7) Install screw (MS27039-1-24), nut (MS21044N3), flat washer (NAS1149D0332K), and spacer (NAS43DD3-60FC) securing clamp (MS21919WDG9) to electrical mains.
- (8) Proceed to step J.
- I. For helicopters with S/Ns 920297 through 920304 and 920311 through 920314, perform the following modifications to enable functionality for MGB indications (Refer to Figure 8):
 - (1) Modify auxiliary circuit breaker panel as follows:
 - (a) Remove button plug from DC essential bus.
 - (b) Install circuit breaker (MS3320-1) at CB4004 location on DC essential bus.
 - (c) Remove shrink tubing from terminal lugs.
 - (d) Reroute wire (P5335G14) from terminal bus TB122 to circuit breaker (CB4004) location on DC essential bus.
 - (e) Install wire (P5335G14) at circuit breaker (MS3320-1) on DC essential bus.
 - (f) Secure wire (P5335G14) to existing wiring harness bundle using lacing tape (SS7057-2).
 - (g) Remove identification tag labeled 92070-55108-012 from circuit breaker CB4004.
 - (2) Modify transmission harness as follows:
 - (a) Remove splice (M81824/1-2) from jumper (JMPRP401-U-20) and wires (W4400F20 and W55108-1A-20).
 - (b) Using contact insertion tool (294-40 or equivalent), de-pin wire (W55108-1A-20) from electrical connector P417-2.
 - (c) Remove and discard wire (W55108-1A-20).
 - (d) Install splice (M81824/1-1) on jumper (JMPRP401-U-20) and wire (W4400F20).
 - (e) Remove shrink tubing from wire (W4422A20) and contact.
 - (f) Reroute wire (W4422A20) from electrical connector P401 to electrical connector P417.
 - (g) Terminate contact at electrical connector P417-2.
 - (h) Install wire (W4422A20) in electrical connector P417-2.
 - (i) Secure wire (W4422A20) to existing wiring harness bundle using lacing tape (SS7057-2).

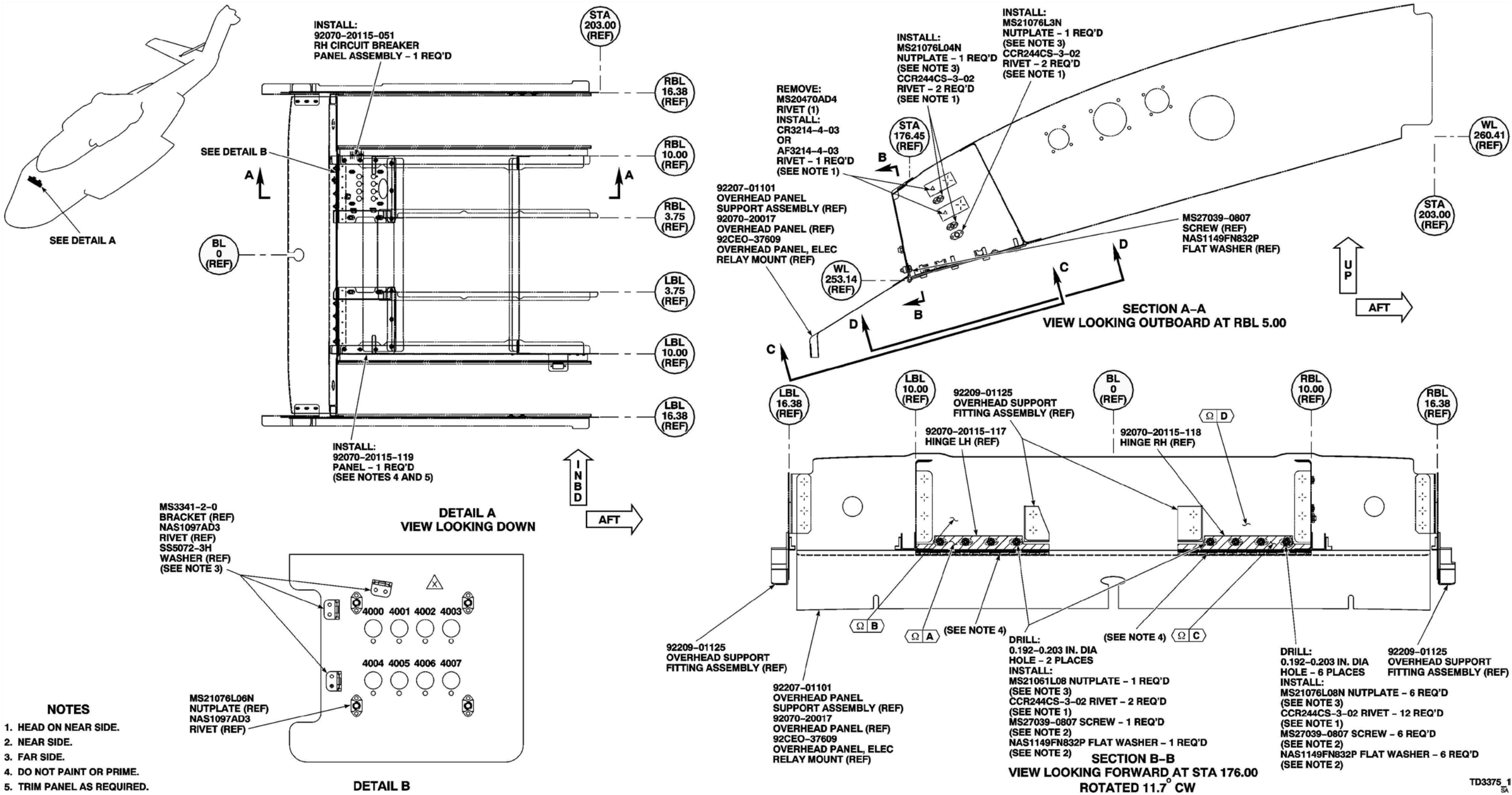
SPECIAL SERVICE INSTRUCTIONS NO. 92-121

- (j) Remove identification tag labeled 92070-55108-013 from electrical connector P417.
- J. Install Modification Kit Auxiliary Cabin Panel Faceplate (M/K, FACEPLATE, AUX CB PNL) (92070-55075-012) as follows (Refer to Figure 2, Sheet 1):
 - (1) Install auxiliary circuit breaker panel information plate (92550-01372-101) using screws (NAS601-6B).
- K. Re-identify the following components:

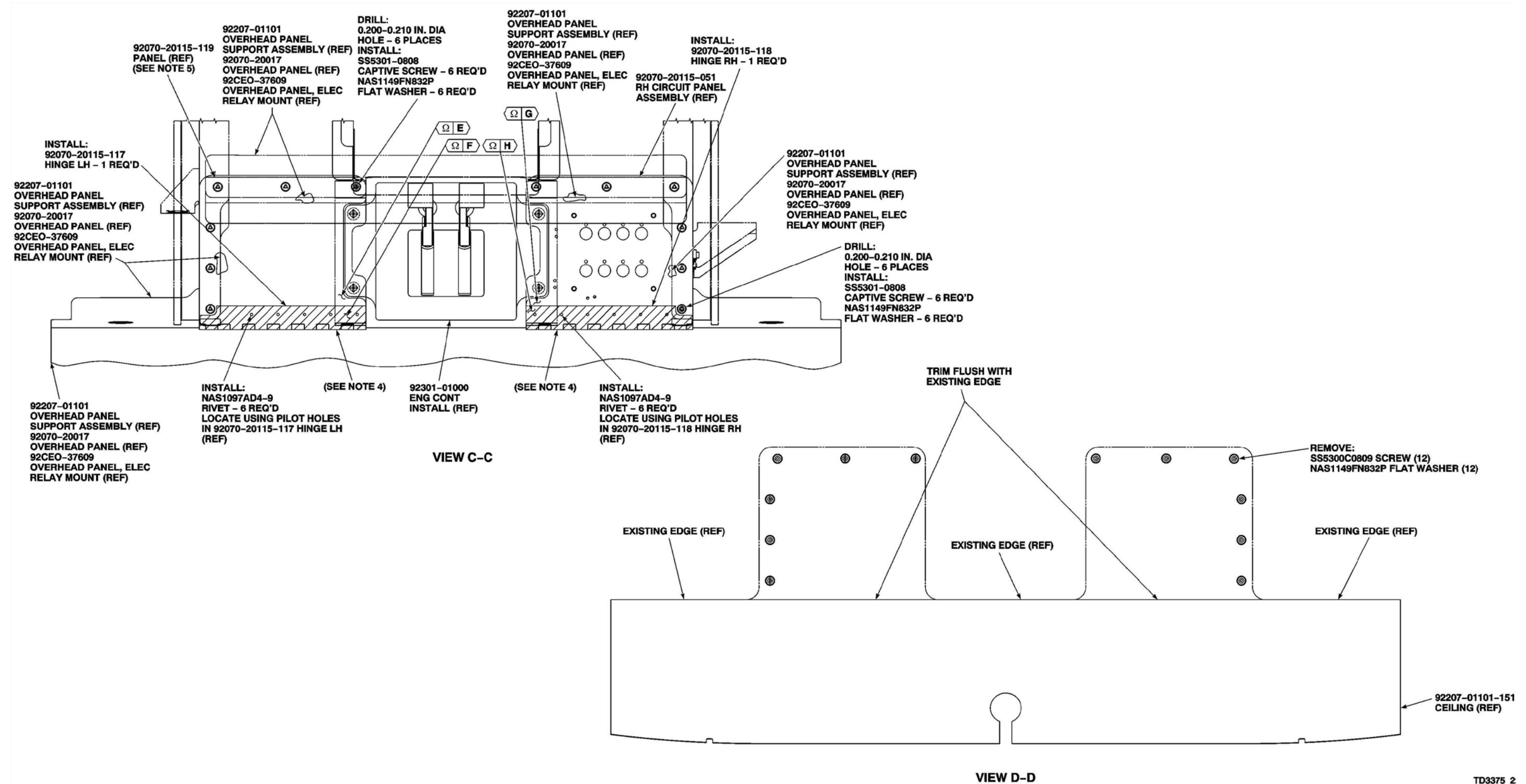
TABLE 1 - RE-IDENTIFICATION OF REWORKED COMPONENTS

<u>Old Part Number</u>	<u>Nomenclature</u>	<u>New Part Number</u>	<u>Effectivity</u>
92207-01101-043	OVHD Panel SPRT ASSY	92080-20432-041	0031-TBD
92207-01101-137	Frame-Front	92070-20115-114	0006-0009
92207-01101-156	Frame-Front	92080-20432-102	0010-TBD
92207-01101-151	Ceiling	92080-20432-101	0006-TBD
92070-20017-041	OVHD Panel	92070-20115-041	0006-0007
92CEO-37609-041	ELEC Relay MNT ASSY	92070-20115-053	0008-0030

- L. Reinstall OVHD CNSL CB PNL. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 31-10-06-900-002).
- M. If removed, install duct on top LH cabin rack, top deck LHS horse collar fairing, and top deck LHS cabin heater bleed air tube.
- N. Perform operational check as follows:
 - (1) Verify 28VDC power to MGB Last Jet Pressure switch electrical connector (P417) is applied to pin 2 when M XMSN PRESS SWITCH circuit breaker is pushed in.
 - (2) Verify 28VDC power to MGB Last Jet Pressure switch electrical connector (P417) is removed when M XMSN PRESS SWITCH circuit breaker is pulled out.
- O. Install the following access panels:
 - (1) Left hand air inlet cover plate. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 71-62-05-900-002).
 - (2) Left hand and right hand oil cooler access doors. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 52-43-02-900-002).
 - (3) Oil cooler platform. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 63-25-01-900-004).
 - (4) Rear cover. (Refer to Maintenance Manual, SA S92A-AMM-000, Task 54-40-01-900-004).
- P. Return helicopter to service.

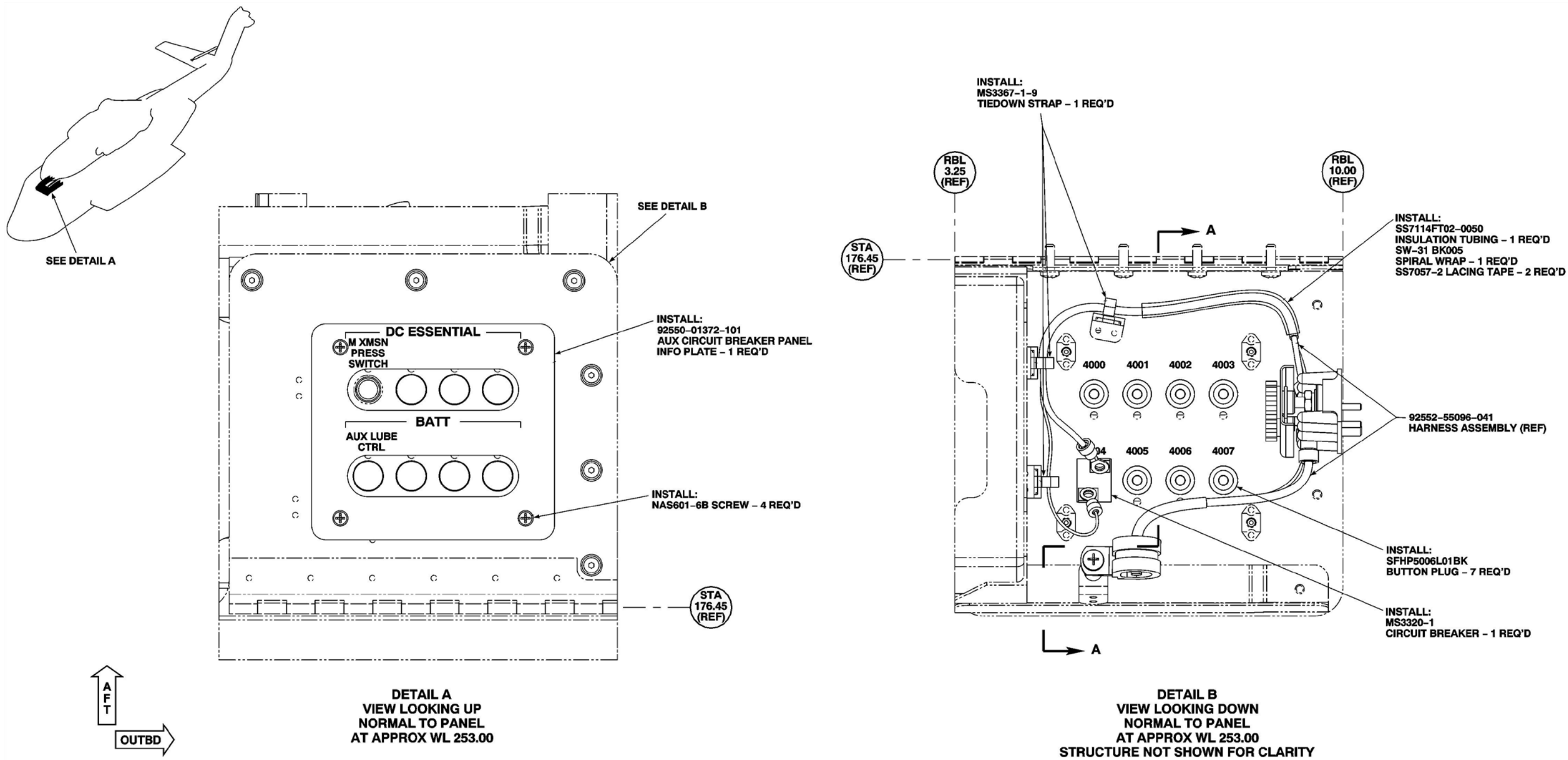


CLIPS AND BRACKETS MODIFICATIONS
FIGURE 1 (SHEET 1 OF 2)



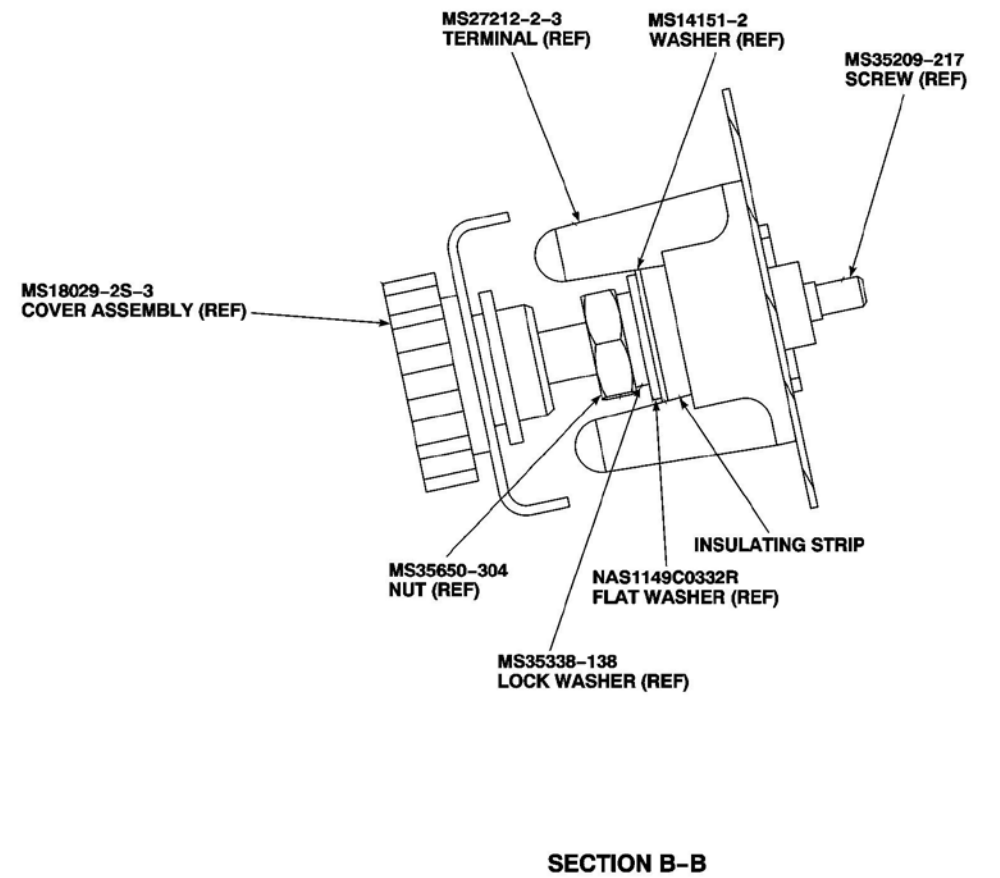
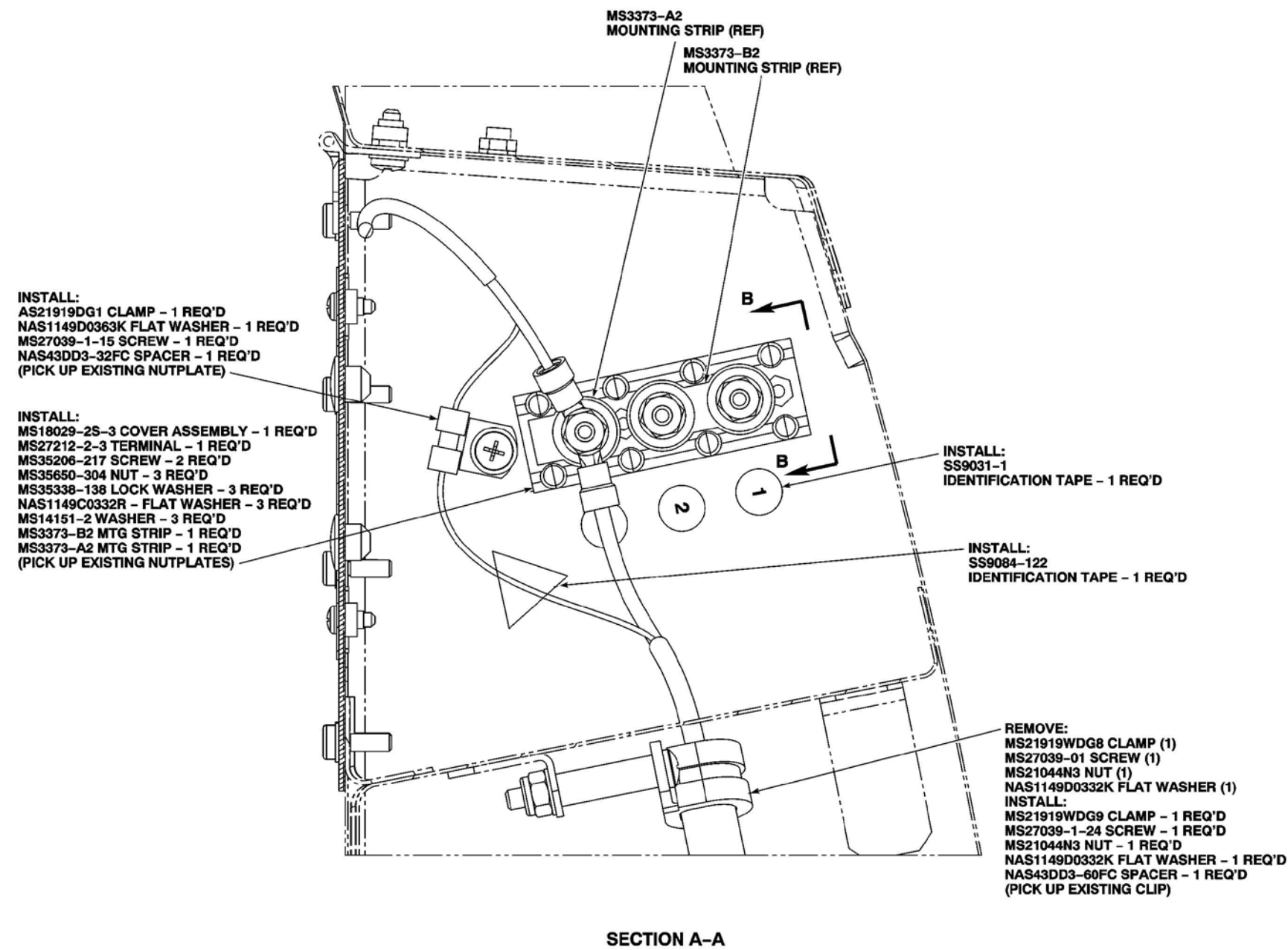
TD3375_2
SA

CLIPS AND BRACKETS MODIFICATIONS
FIGURE 1 (SHEET 2)



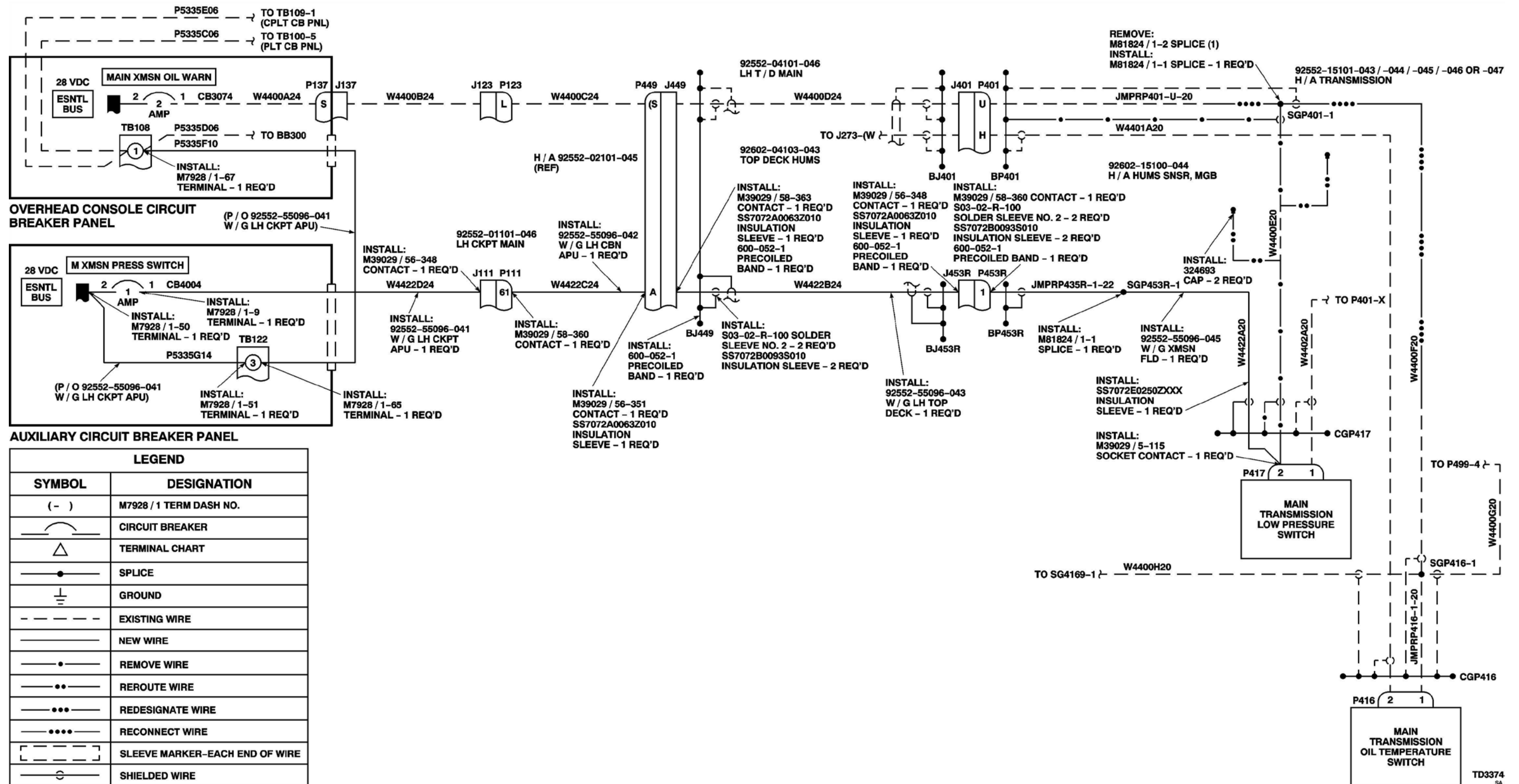
AUX CB PANEL MODIFICATION
FIGURE 2 (SHEET 1 OF 2)

TD3376_1
SA

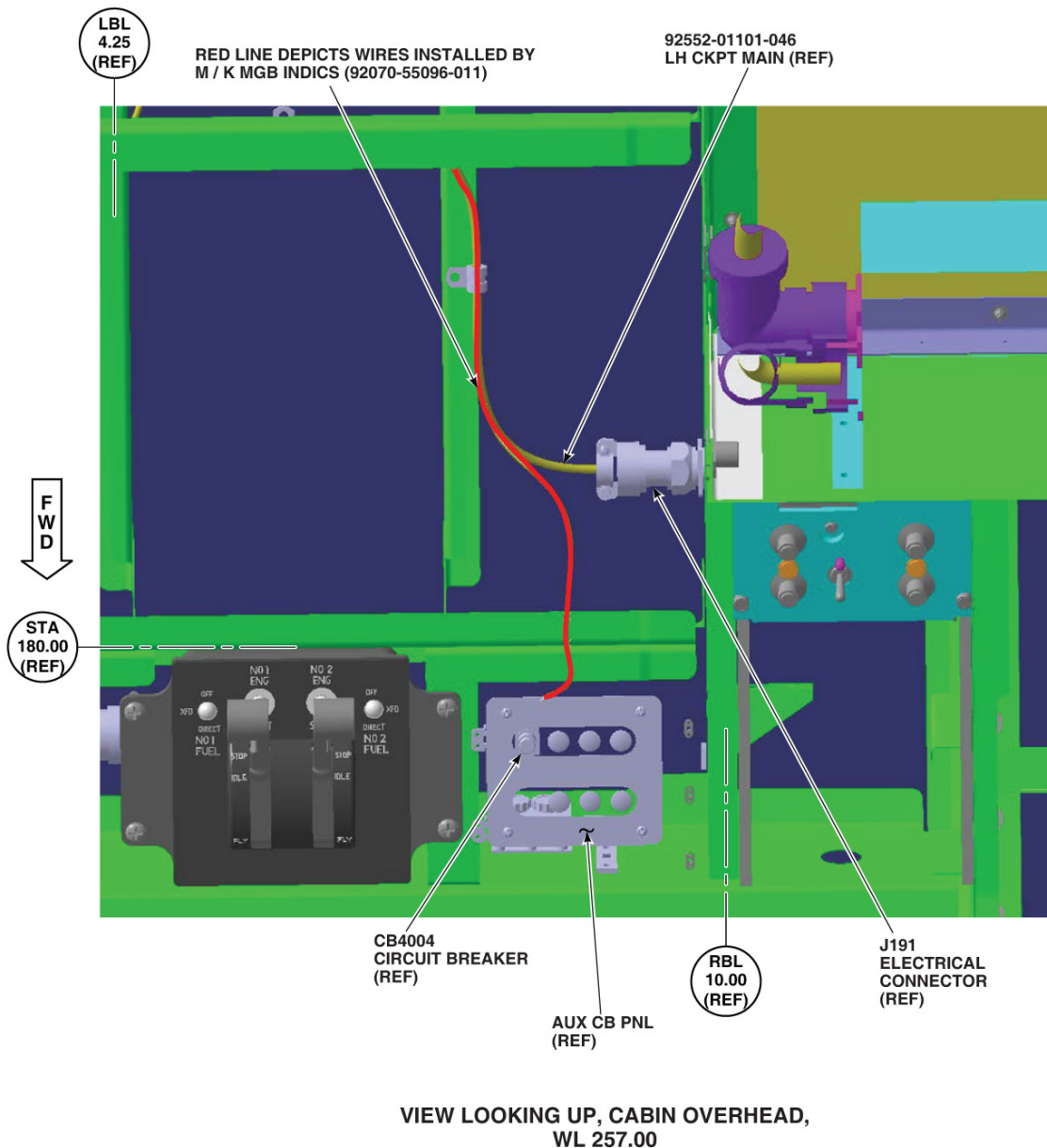


AUX CB PANEL MODIFICATION
FIGURE 2 (SHEET 2)

TD3376_2
SA

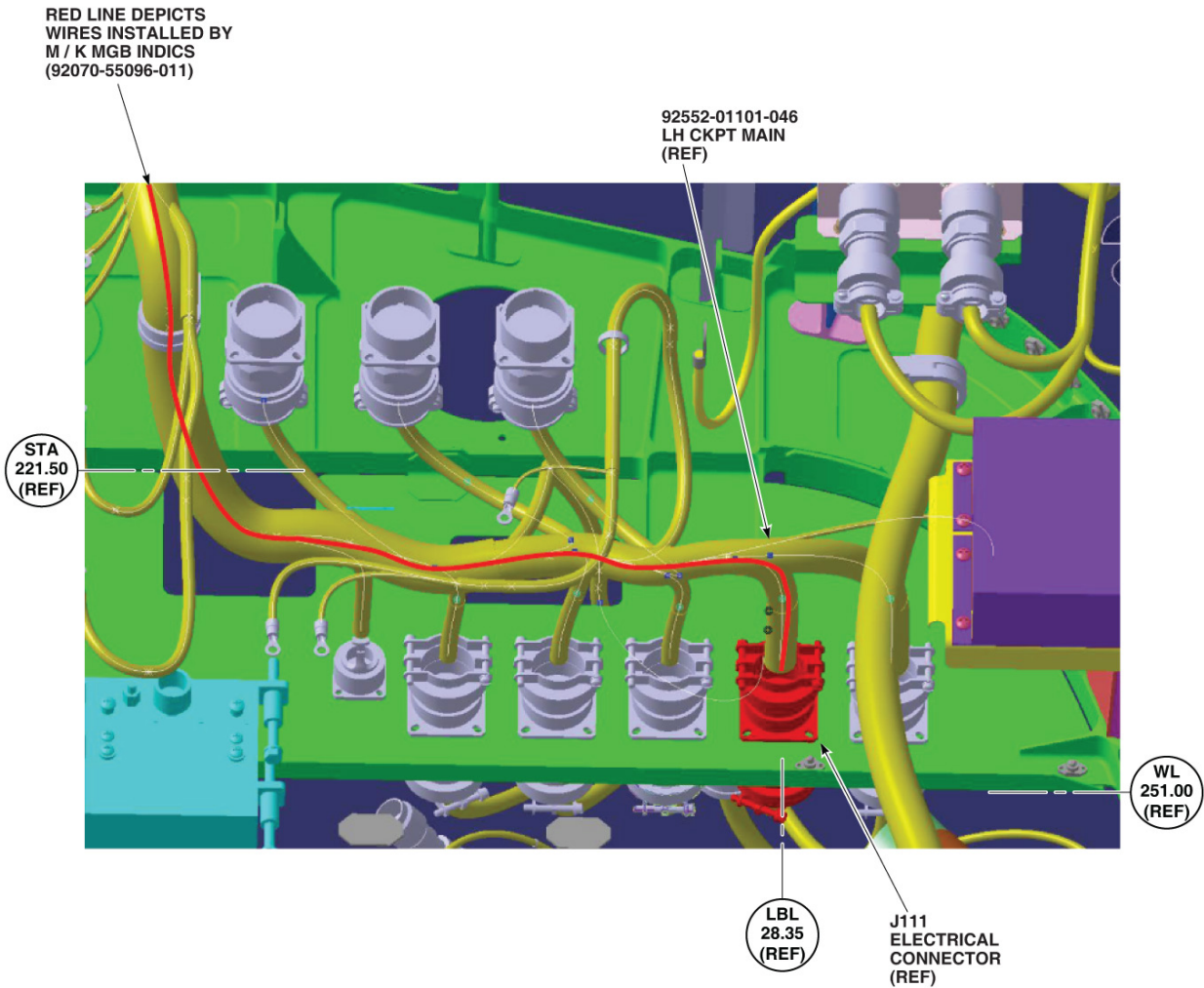


MGB INDICATIONS WIRING MODIFICATION
FIGURE 3



TD3588
SA

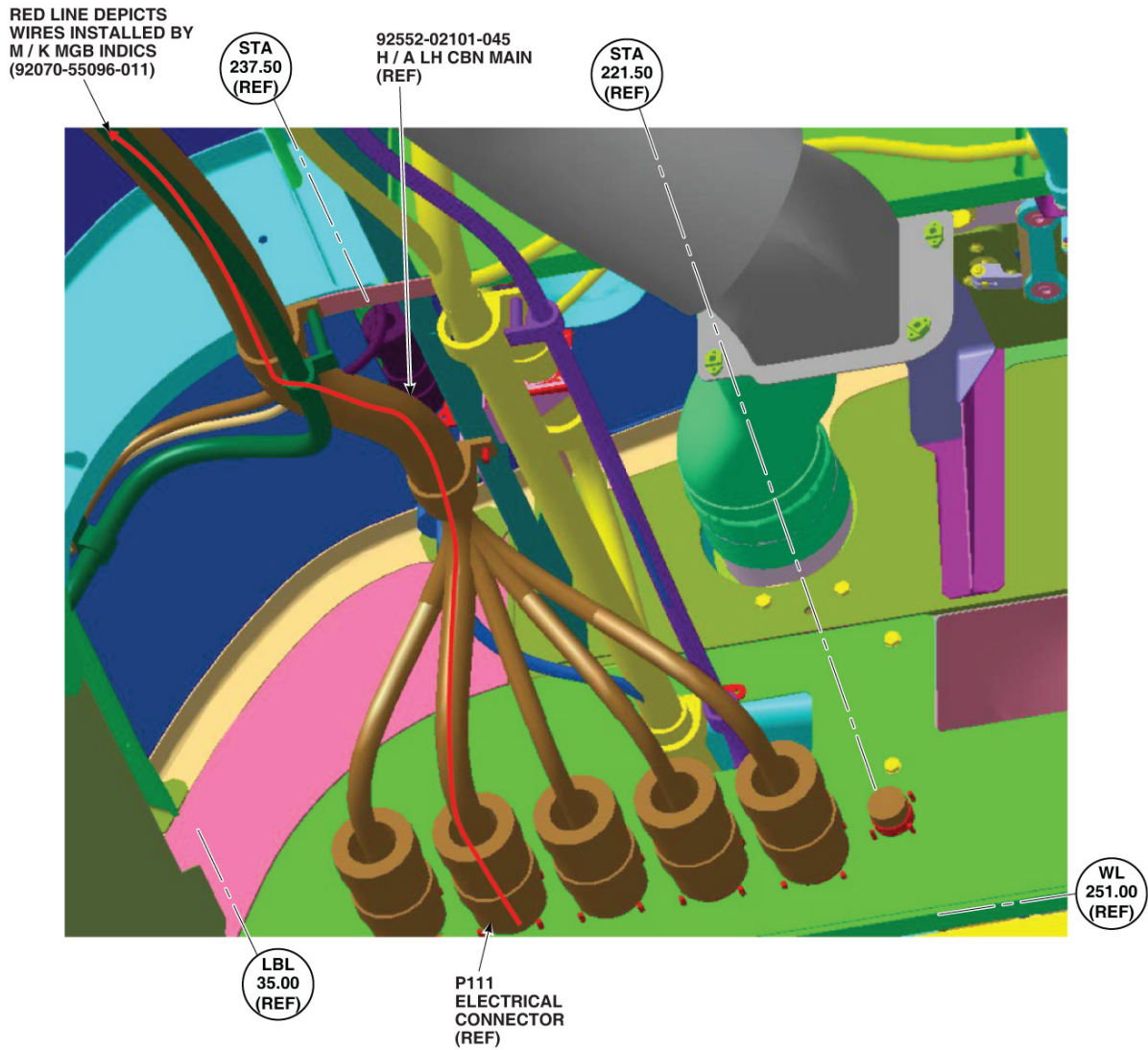
WIRE ROUTING FOR M/K LH COCKPIT AUXILIARY POWER UNIT (92070-55096-012)
BEGINNING OF ROUTE
FIGURE 4 (SHEET 1 OF 2)



VIEW LOOKING UP AND FORWARD,
CABIN OVERHEAD, STA 221.50, LHS

WIRE ROUTING FOR M/K LH COCKPIT AUXILIARY POWER UNIT (92070-55096-012)
END OF ROUTE
FIGURE 4 (SHEET 2)

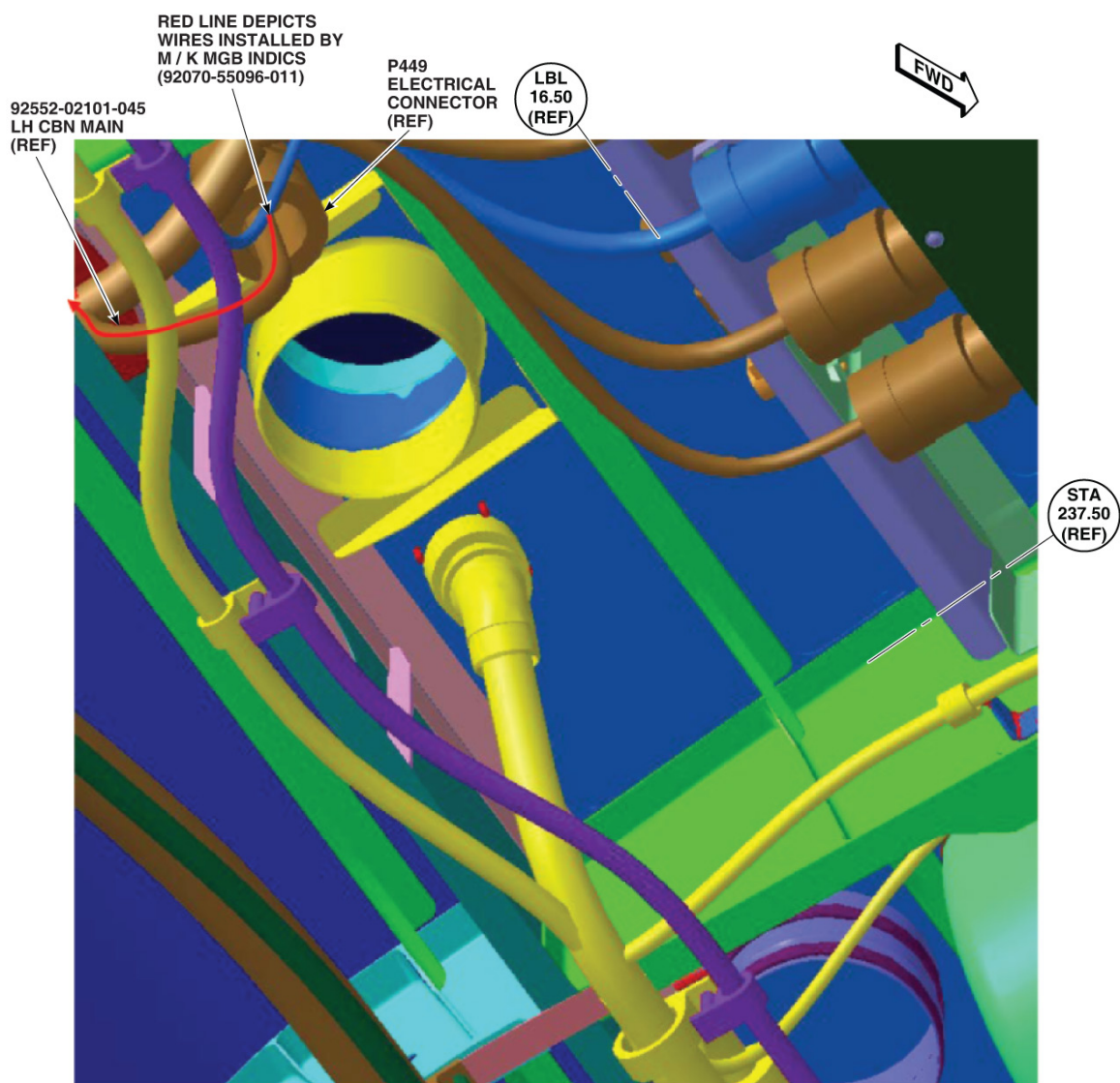
TD3589
SA



VIEW LOOKING UP AND FORWARD,
CABIN OVERHEAD, STA 221.50, LHS

WIRE ROUTING FOR M/K LH CABIN AUXILIARY POWER UNIT (92070-55096-013)
BEGINNING OF ROUTE
FIGURE 5 (SHEET 1 OF 2)

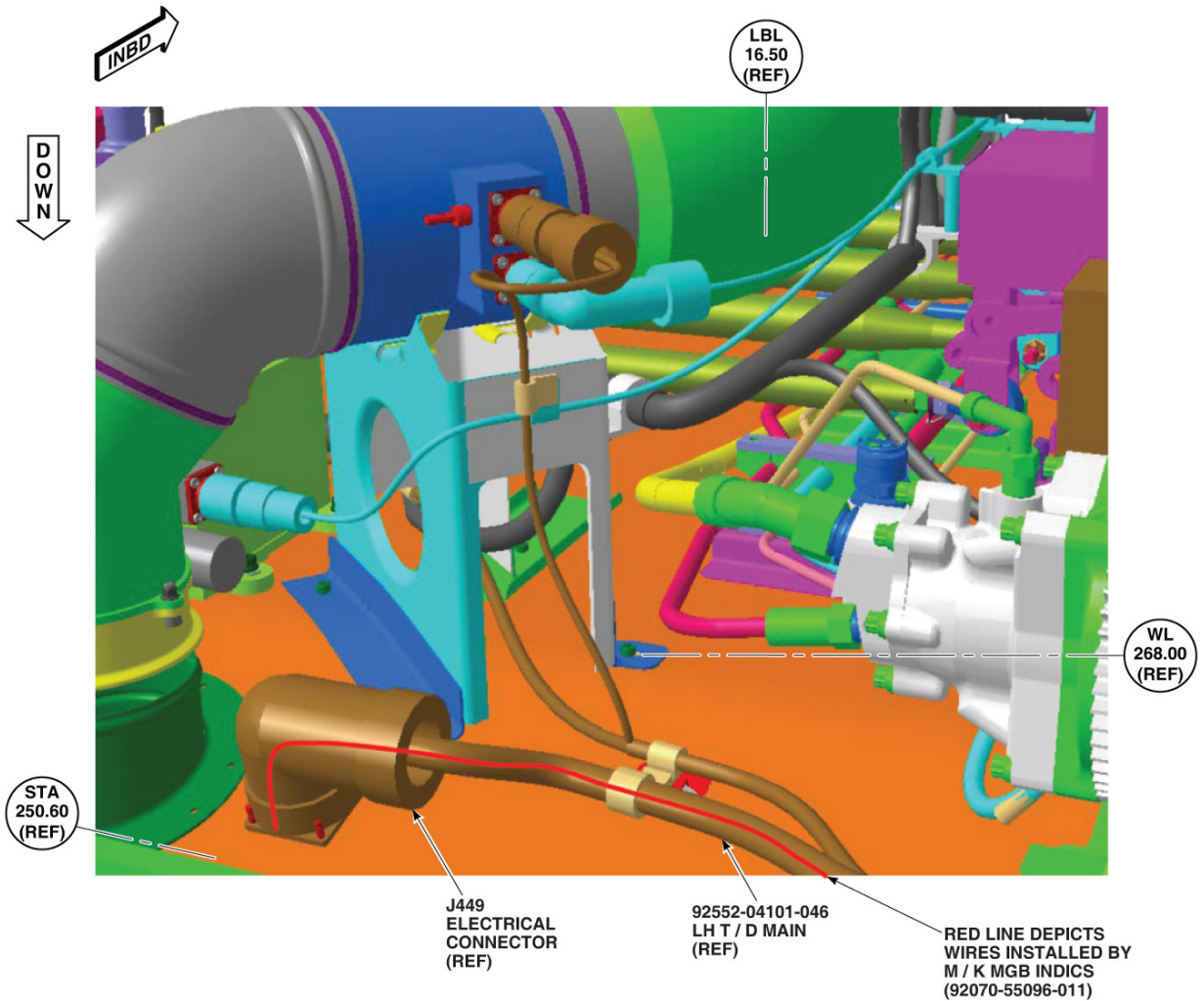
TD3590
SA



VIEW LOOKING UP,
CABIN OVERHEAD, WL 265.00, LHS

TD3591
SA

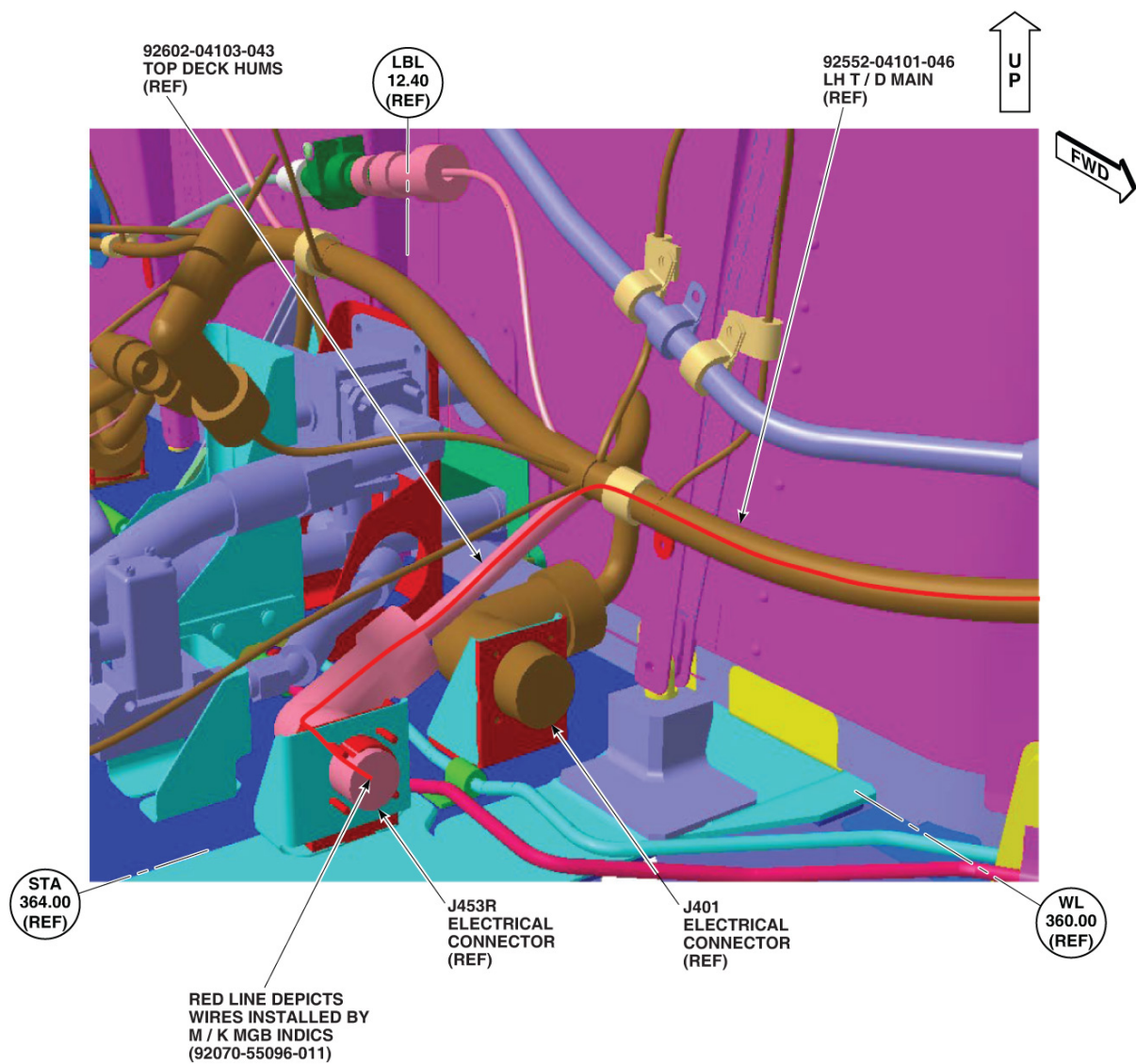
WIRE ROUTING FOR M/K LH CABIN AUXILIARY POWER UNIT (92070-55096-013)
END OF ROUTE
FIGURE 5 (SHEET 2)



VIEW LOOKING FORWARD AND INBOARD,
FORWARD SECTION LH TOP DECK

WIRE ROUTING FOR M/K LH TOP DECK FLD (92070-55096-016)
BEGINNING OF ROUTE
FIGURE 6 (SHEET 1 OF 2)

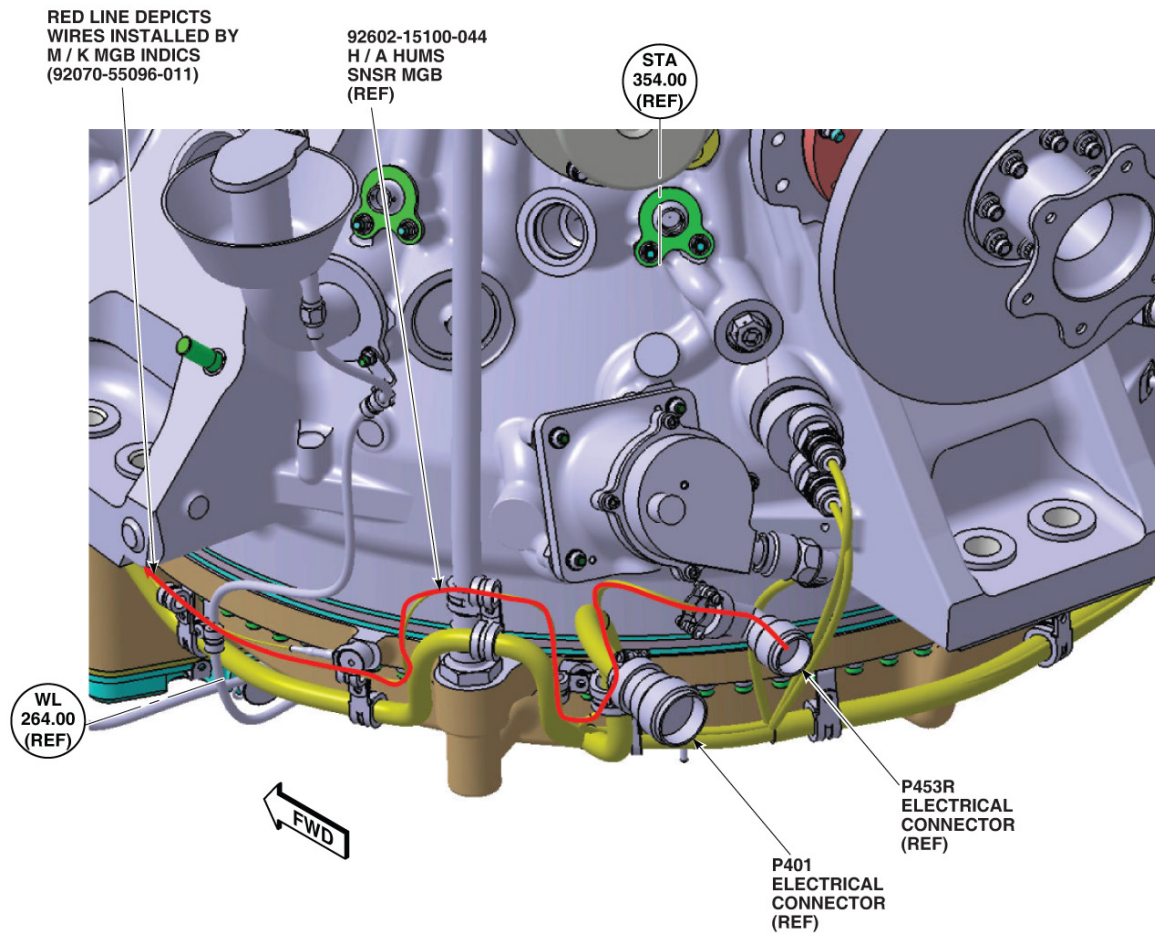
TD3592
SA



VIEW LOOKING OUTBOARD AND AFT AT
FORWARD FIREWALL, LH TOP DECK

WIRE ROUTING FOR M/K LH TOP DECK FLD (92070-55096-016)
END OF ROUTE
FIGURE 6 (SHEET 2)

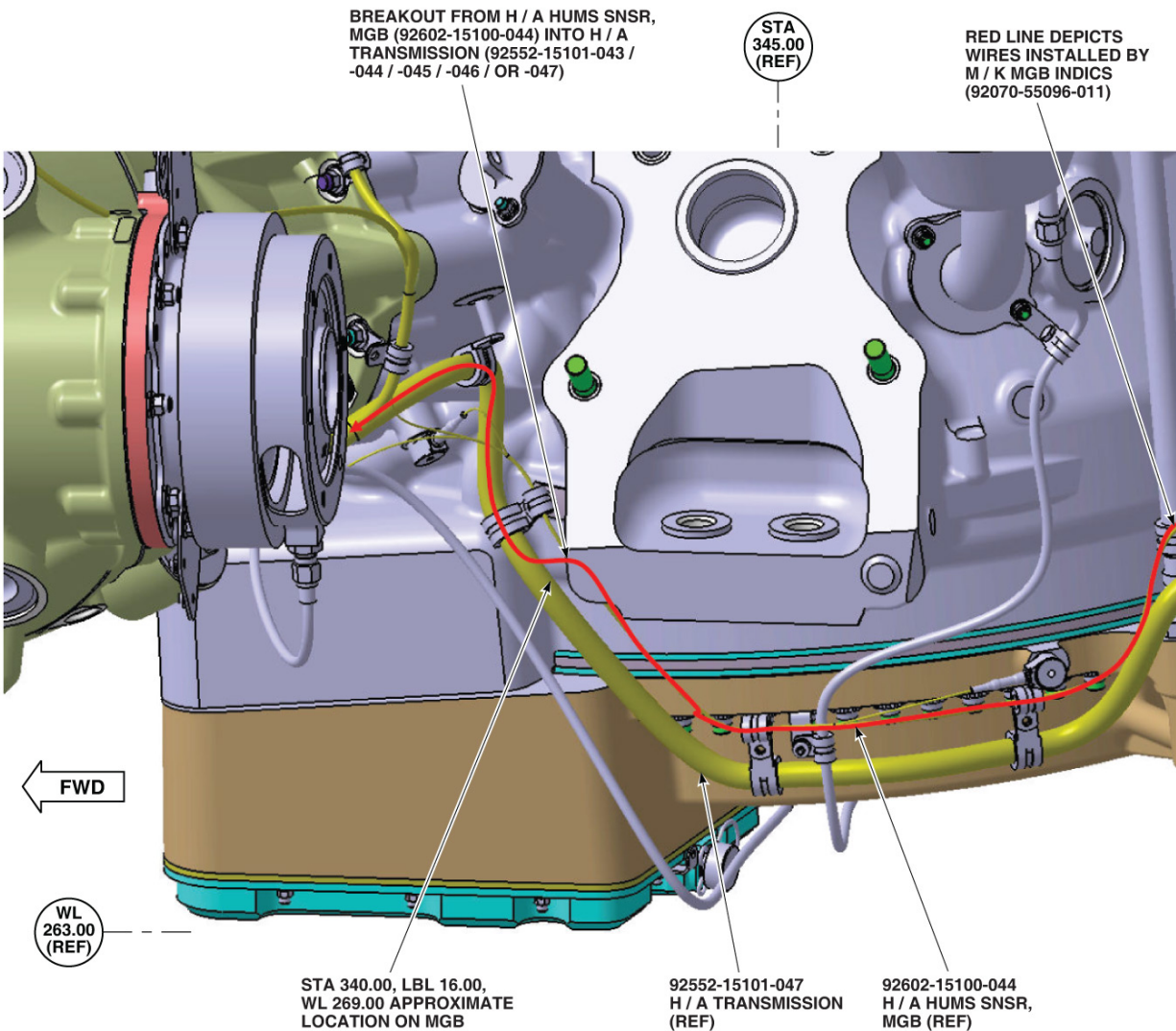
TD3587
SA



VIEW LOOKING INBOARD, FORWARD AND DOWN
AT LHS MAIN HOUSING, LBL 10.80

WIRE ROUTING FOR M/K MGB XMSN (92070-55096-017)
BEGINNING OF ROUTE
FIGURE 7 (SHEET 1 OF 3)

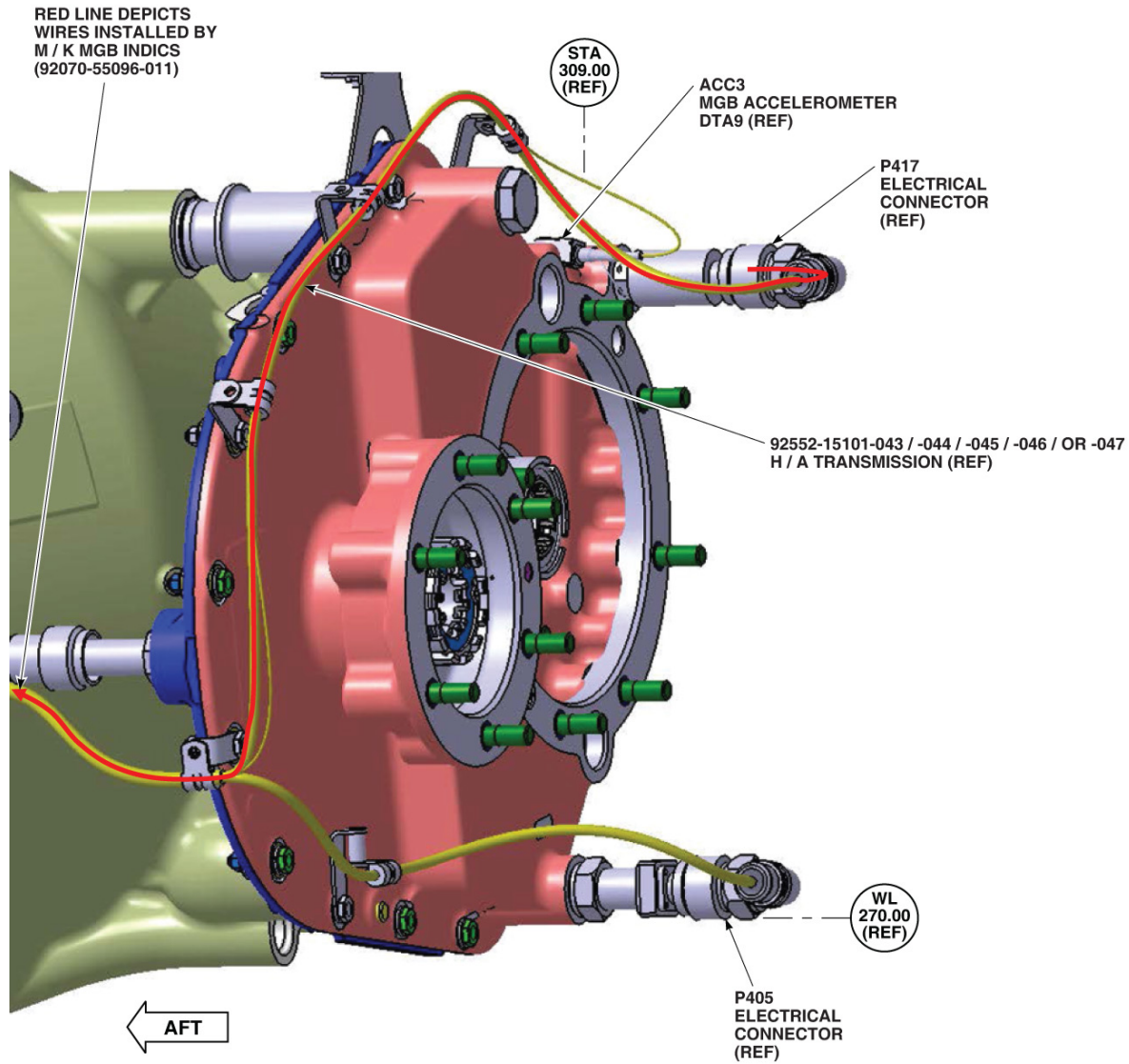
TD3593
SA



VIEW LOOKING INBOARD LHS
AT MAIN HOUSING, LBL 15.00

WIRE ROUTING FOR M/K MGB XMSN (92070-55096-017)
BREAKOUT FROM H/A HUMS SNSR MGB IN H/A TRANSMISSION
FIGURE 7 (SHEET 2)

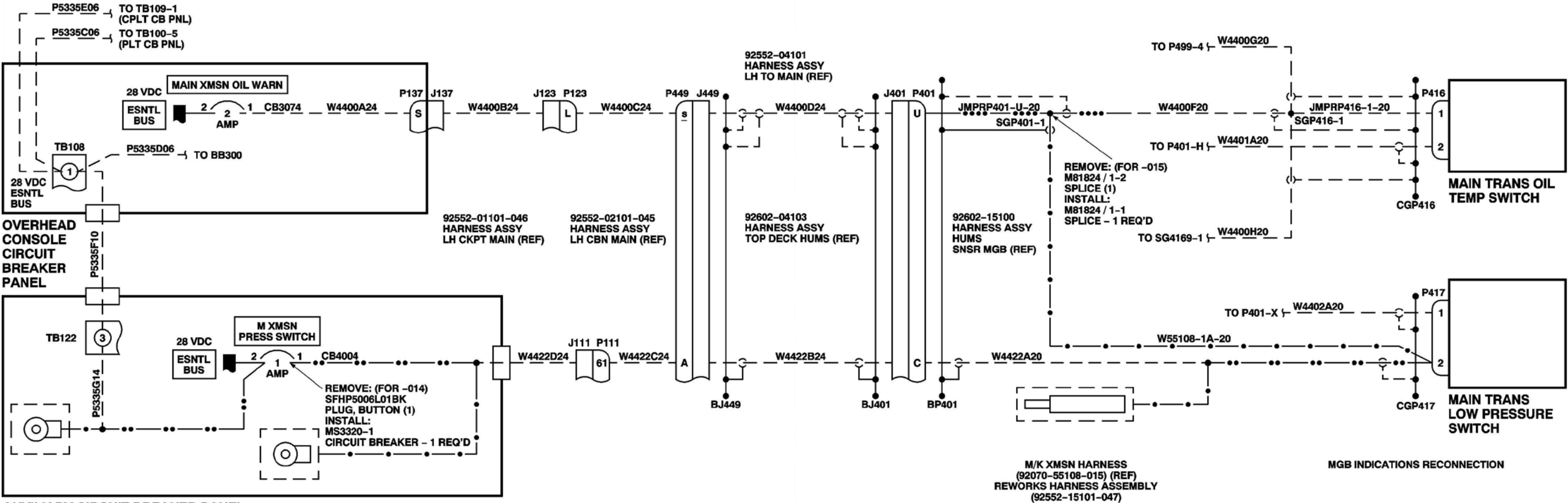
TD3595
SA



VIEW LOOKING OUTBOARD LHS
AT ACCESSORY MODULE, LBL 22.00

WIRE ROUTING FOR M/K MGB XMSN (92070-55096-017)
END OF ROUTE
FIGURE 7 (SHEET 3)

TD3594
SA



LEGEND	
SYMBOL	DESIGNATION
(-)	M7928 / 1 TERM DASH NO.
	CIRCUIT BREAKER
	TERMINAL CHART
	SPLICE
	GROUND
	EXISTING WIRE
	NEW WIRE
	REMOVE WIRE
	REROUTE WIRE
	REDESIGNATE WIRE
	RECONNECT WIRE
	SLEEVE MARKER-EACH END OF WIRE
	SHIELDED WIRE

M/K AUX CB PANEL
(92070-55108-014) (REF)
REWORKS HARNESS ASSEMBLY (92552-01101-046)
AND HARNESS ASSEMBLY (92552-55096-041)

MODIFICATION KIT - MGB INDICATIONS WIRING RECONNECTION
FIGURE 8

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

Electrical Load Data:

Not affected.

Software Load Data:

Not changed.

Weight and Balance: Change resulting from these instructions is as follows:

- (1) Modification Kit (92070-20115-012): +0.81 lb at STA 207.3.
 - (a) RH Circuit Breaker Panel Assembly (92070-20115-051): + 0.39 lb at STA 207.3.
 - (b) LH Hinge (92070-20115-117): +0.08 lb at STA 207.3.
 - (c) RH Hinge (92070-20115-118): +0.08 lb at STA 207.3.
 - (d) Panel (92070-20115-119): +0.26 lb at STA 207.3.
- (2) Modification Kit (92070-55096-011): +0.39 lb at STA 232.2.
 - (a) W/G LH CKPT APU (92552-55096-041): +0.25 lb at STA 232.2.
 - (b) W/G LH CBN APU (92552-55096-042): +0.02 lb at STA 232.2.
 - (c) W/G LH Top Deck (92552-55096-043): +0.05 lb at STA 232.2.
 - (d) W/G XMSN (92552-55096-044): +0.07 lb at STA 232.2.

Manpower (Estimated):

<u>Task</u>	<u>No. of Men</u>	<u>No. of Hours</u>	<u>Man-hours*</u>
Prepare Documentation	1	0.25	0.25
Installation of Modification Kit 92070-20115 Clips and Brackets	1	12.00	12.00
Installation of Modification Kit 92070-55096 MGB Indications Wiring	2	12.00	24.00
Installation of Modification Kit 92070-55075 Aux CB	1	10.00	10.00
Modification of Aux CB Panel	1	1.00	1.00
Modification of Transmission Harness	1	1.00	<u>1.00</u>
Total			48.25
*Estimate does not include time required to prepare helicopter or return it to flight status.			

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

Material Information:

Q. Modification Kit Required:

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
1	M/K Collector, MGB Indications	92070-55095-011	(1)(2)
Consisting of:			
1	M/K Clips and Brackets	92070-20115-015	
Made up of:			
1	M/K OVHD Support	92070-20115-012	
Made up of:			
27	Rivet	CCR244CS-3-02	
3	Cherry Rivet	CR3214-4-03 Alternate: AF3214-4-03	
3	Nutplate	MS21061L08	
3	Nutplate	MS21076L04N	
7	Nutplate	MS21076L08N	
3	Nutplate	MS21076L3N	
9	Screw	MS27039-0807	
14	Rivet	NAS1097AD4-9	
22	Washer, Flat	NAS1149FN832P	
14	Screw, Captive	SS5301-0808	
REF	OVHD SPRT ASSY	92070-20115-041	
REF	Circuit Panel ASSY RH	92070-20115-042	
1	Circuit PNL ASSY RH	92070-20115-051	
REF	ELEC Relay MNT ASSY	92070-20115-053	
REF	Hinge LH	92070-20115-101	
REF	Hinge RH	92070-20115-102	
REF	Panel	92070-20115-103	
REF	Frame - Front	92070-20115-114	
1	Hinge LH	92070-20115-117	
1	Hinge RH	92070-20115-118	
1	Panel	92070-20115-119	
REF	OVHD SPRT INSTL	92080-20432-012	
REF	OVHD SPRT ASSY	92080-20432-041	
REF	Ceiling	92080-20432-101	
REF	Frame - Front	92080-20432-102	

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
1	M/K, PROV, AUX CB PNL	92070-55075-011	
	Made up of:		
1	Clamp	AS21919DG1	
3	Washer	MS14151-2	
1	Cover ASSY	MS18029-2S-3	
1	Nut	MS21044N3	
1	Clamp	MS21919WDG9	
1	Screw	MS27039-1-15	
1	Screw	MS27039-1-24	
1	Terminal	MS27212-2-3	
1	Circuit Breaker	MS3320-1	
3	Strap, Tiedown	MS3367-1-9	
1	Strip, MTG	MS3373-A2	
1	Strip, MTG	MS3373-B2	
2	Screw	MS35206-217	
3	Washer, Lock	MS35338-138	
3	Nut	MS35650-304	
3	Washer, Flat	NAS1149C0332R	
1	Washer, Flat	NAS1149D0332K	
1	Washer, Flat	NAS1149D0363K	
1	Spacer	NAS43DD3-32FC	
1	Spacer	NAS43DD3-60FC	
7	Plug, Button	SFHP5006L01BK	
2 FT	Tape, Lacing	SS7057-2	
1	Tubing, INSUL	SS7114FT02-0050	
1	Tape, IDENT	SS9031-1	
1	Tape, IDENT	SS9084-122	
0.5 FT	Spiral Wrap	SW-31 BK005	
1	M/K, Faceplate, AUX CB PNL	92070-55075-012	
	Made up of:		
4	Screw	NAS601-6B	
1	INFO Plate, AUX CB PNL	92550-01372-101	
1	M/K MGB INDICS	92070-55096-011	
	Consisting of:		

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
1	M/K LH CKPT APU	92070-55096-012	
Made up of:			
2	Contact	M39029/56-348	
1	Terminal	M7928/1-50	
1	Terminal	M7928/1-51	
1	Terminal	M7928/1-65	
1	Terminal	M7928/1-67	
1	Terminal	M7928/1-9	
16 FT	Tape, Lacing	SS7057-2	
1	Sleeve Marker	SS7094-S3-175-9	
1	W/G LH CKPT APU	92552-55096-041	
1	M/K LH CBN APU	92070-55096-013	
Made up of:			
2	Contact	M39029/56-351	
2	Contact	M39029/58-360	
7 FT	Tape, Lacing	SS7057-2	
2	Sleeve, INSUL	SS7072A0063Z010	
1	Sleeve Marker	SS7094-S3-175-9	
1	W/G LH CBN APU	92552-55096-042	
1	M/K LH Top Deck FLD	92070-55096-016	
Made up of:			
2	Contact	M39029/56-348	
2	Contact	M39029/58-363	
2	Solder Sleeve #2, With Braid	S03-02-R-100	
20 FT	Tape, Lacing	SS7057-2	
2	Sleeve, INSUL	SS7072A0063Z010	
1	Sleeve, INSUL	SS7072A0125Z030	
2	Sleeve, INSUL	SS7072B0093S010	
1	Sleeve Marker	SS7094-S3-175-9	
2	Band, Precoiled	600-052-1	
1	W/G LH Top Deck	92552-55096-043	
1	M/K MGB XMSN FLD	92070-55096-017	
Made up of:			

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
2	Contact, Socket	M39029/5-115	
2	Contact	M39029/58-360	
2	Splice	M81824/1-1	
2	Solder Sleeve #2, With Braid	S03-02-R-100	
20 FT	Tape, Lacing	SS7057-2	
2	Sleeve, INSUL	SS7072B0093S010	
10 FT	Sleeve, INSUL	SS7072E0250ZXXX	
1	Sleeve Marker	SS7094-S3-175-9	
3	Cap	324693	
1	Band, Precoiled	600-052-1	
1	W/G XMSN	92552-55096-045	
1	Circuit Breaker	MS3320-1	(2)(3)
1	Splice	M81824/1-1	(2)(3)

R. Consumable Materials:



OBSERVE ALL CAUTIONS AND WARNINGS ON CONTAINERS WHEN USING CONSUMABLES. WHEN APPLICABLE, WEAR NECESSARY PROTECTIVE GEAR DURING HANDLING AND USE. IF A CONSUMABLE IS FLAMMABLE OR EXPLOSIVE, MAKE CERTAIN CONSUMABLE AND ITS VAPORS ARE KEPT AWAY FROM HEAT, SPARK AND FLAME. MAKE CERTAIN FIREFIGHTING EQUIPMENT IS READILY AVAILABLE PRIOR TO USE. FOR ADDITIONAL INFORMATION ON TOXICITY, FLASHPOINT AND FLAMMABILITY OF CHEMICALS, CONSULT YOUR MEDICAL DEPARTMENT OR THE MANUFACTURER OF THE CONSUMABLE.

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
A/R	Tape, PTFE Film	3M-60 or equivalent	(4)
A/R	HR ½ Sleeving	625300413 or equivalent	(4)
A/R	Tape	A-A-59163 or equivalent	(4)
A/R	Low Lint Cloth	A-A-59323 or equivalent	(4)
A/R	Wire Braid	AA59569R36T0203 or equivalent	(4)
A/R	Sealing Compound	AMS 3265 or equivalent	(4)
A/R	Cheesecloth	CCC-C-440 or equivalent	(4)
A/R	Tape	DMYNO-6A669-001 or equivalent	(4)
A/R	Chemical Conversion Coating	MIL-DTL-5541 Class 3 or equivalent	(4)

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<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
A/R	Epoxy Primer	MIL-PRF-23377 or equivalent	(4)
A/R	Black Paint	MIL-PRF-85285, FED-STD-595 color no. 37038 or equivalent	(4)
2 FT	Tape, Lacing	SS7057-2	(4)
A/R	Isopropyl Alcohol	TT-I-735 or equivalent	(4)
A/R	Epoxy Primer	Alternate: Axalta (Formerly DuPont) Corlar 13580S or equivalent	(5)

S. Support Equipment:

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
1	Milliohmmer	R1L-E2 or equivalent	(4)

T. Tooling Required:

<u>Qty</u>	<u>Nomenclature</u>	<u>Part Number</u>	<u>Source</u>
1	Contact Insertion Tool	294-40 or equivalent	(4)
1	Fine Point Permanent Marker	Commercially available or equivalent	(4)
1	Roller	Commercially available or equivalent	(4)

U. Source:

(1) Modification kit collector, MGB indications (92070-55095-011) contains:

- (a) Modification kit auxiliary circuit breaker panel provision (92070-55075-011).
- (b) Modification kit auxiliary cabin panel faceplate (92070-55075-012).
- (c) Modification kit MGB indications (92070-55096-011).
- (d) Modification kit MGB XMSN FLD (92070-55096-017).
- (e) Modification kit clips and brackets (92070-20115-015).
- (f) Modification kit MGB indications wiring (92070-55107-011).

(2) For parts availability and lead time requirements, contact your Customer Service Representative at Sikorsky Commercial Inc. (SCI). Submit a no-cost purchase order referencing this SSI number and the helicopter serial number(s) on which these parts will be used. This will allow SCI and the operator to track shipment and receipt of parts. Orders will be accepted by letter, telephone, facsimile (FAX) or through the SCI website:

SPECIAL SERVICE INSTRUCTIONS NO. 92-121

<https://customerportal.sikorsky.com>. For prompt shipment, reference address of each shipping destination. Direct your order to:

Sikorsky Aircraft Corporation
Commercial Systems and Services
Mailstop K100
124 Quarry Road
Trumbull, CT 06611 U.S.A.
Attn: Account Service Manager
FAX: (203) 416-4291, Telephone: (203) 416-4000
<https://customerportal.sikorsky.com>

(3) For helicopters with S/Ns 920297 through 920304 and 920311 through 920314.

(4) Available through normal supply channels.

(5) Available through: Merritt Marine Supply
Website: <http://www.merrittsupply.com>

V. Record of compliance:

(1) Make helicopter logbook entries to show compliance with this SSI as follows:

(a) When SSI modifies a component that can be removed from this helicopter:

1 Make component log card entries on forms SA7343-22 (Aircraft Component Log Cards) & SA7343-21 (Component Log Cards), as applicable.

2 If a component modified by this SSI does not have a log card and the SSI does not create one, then annotate compliance on the next higher assembly that the component belongs to which does have a log card.

(2) Upon compliance with this SSI, complete attached SPECIAL SERVICE INSTRUCTIONS COMPLIANCE RECORD CARD and return it to Sikorsky Aircraft Corporation.

(Fold over and tape closed)

SIKORSKY AIRCRAFT CORPORATION

FACSIMILE NUMBER (817) 762-6715

EMAIL ADDRESS: product_safety.gr-sik@lmco.com

ATTENTION: Gr-SIK, Product_Safety
SIKORSKY AIRCRAFT CORPORATION

IMPORTANT NOTICE

Upon COMPLIANCE with the attached SSI, Sikorsky requests your cooperation in completing and returning this ENTIRE PAGE by MAIL, FAX, or scan & EMAIL.

Please fill in the requested information at the bottom of the page, so we may maintain proper records documenting the configuration of your aircraft. This information is useful when determining configuration and effectivity of issues affecting fielded aircraft.

This request is in keeping with our policy to assure that our customers receive the latest information applicable for the maintenance of your aircraft. Thank you.

SPECIAL SERVICE INSTRUCTION: No. 92-121 **Compliance Record Card**

TITLE: ROTOR DRIVES – Main Gearbox (MGB) Oil Pressure, Temperature, and Pump
Warning – Installation of Auxiliary Circuit Breaker Panel and M XMSN PRESS
SWITCH Circuit Breaker Modification Kits

OWNER/OPERATOR: _____

SUBMITTED BY: _____ **DATE:** _____

☐ **FOLLOWING SERIAL NUMBERS ARE NOT AFFECTED BY THIS SSI**

☐ **SSI HAS BEEN COMPLIED WITH ON HELICOPTER SERIAL NUMBERS:**

(Fold Up to Arrows)



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FACSIMILE NUMBER (817) 762-6715

Or scan and email to:

EMAIL ADDRESS: product_safety.gr-sik@lmco.com

or fold and return ENTIRE form to Sikorsky Aircraft Corporation