



Commercial
Airplanes

737

Service Bulletin

ALERT

Number: 737-28A1206
Original Issue: January 11, 2006
Revision 2: May 21, 2009
ATA System: 2822 3152

SUBJECT: FUEL - Distribution - Center Fuel Tank Boost Pump Auto Shutoff and Master Caution Logic Change

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Revision Transmittal Sheet

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ATA System: 2822 3152

SUBJECT: FUEL - Distribution - Center Fuel Tank Boost Pump Auto Shutoff and Master Caution Logic Change

This Revision includes all pages of the service bulletin.

COMPLIANCE INFORMATION RELATED TO THIS REVISION

More work is necessary on airplanes changed as shown in the Original Issue of this service bulletin dated January 11, 2006, or changed as shown in Revision 1 of this service bulletin dated January 30, 2008, and did not incorporate the Emergency AD 2008-24-51 dated November 18, 2008. These airplanes need to perform the operational test given in Accomplishment Instructions, paragraph 3.B, Work Instructions, PART 3.

No more work is necessary on airplanes changed as shown in the Original Issue of this service bulletin dated January 11, 2006 or changed as shown in Revision 1 of this service bulletin dated January 30, 2008 and did accomplish Emergency AD 2008-24-51 dated November 18, 2008.

REASON FOR REVISION

This revision is sent to tell Operators that Boeing received a report from one Operator that the Left Hand Fuel Boost Pump of the Center Wing Tank failed to shut off after being selected "OFF" by the flightcrew during flight on a 737-700 airplane. Subsequent to that report, the same failure was found on two additional airplanes. Boeing determined that the failure was caused by a wire that was installed at a wrong location. During the incorporation of the service bulletin these operators terminated wire W0040-6402-14 incorrectly, to a different terminal block, and not to terminal block TB5060F as given in the instructions provided in Figure 33 and Figure 34, or Figure 35 and Figure 36. Wire W0040-6402-14 must be installed on Terminal Block TB5060F, terminal position 5. This terminal provides 115V AC from Transfer Bus 1, Section 2. If wire is installed incorrectly on terminal TB5060E or any other terminal block, the Auto Shutoff System will not function correctly and the Left Hand Center Tank Boost Pump may continue to operate after being selected off. This could result in a dry running pump. Fuel pumps that run dry and overheat could result in an ignition source in a fuel tank. This miswiring was the reason Airworthiness Directive AD 2008-24-51 was released and mandated by FAA on November 18, 2008.

This revision is sent to tell operators that the AMM 28-22-00 - Center Tank Boost Pump Auto Shutoff Functional Test has been changed to incorporate the requirements of the AD 2008-24-51. The new Center Tank Boost Pump Auto Shutoff Functional Test will detect if the wire W0040-6402-14 is incorrectly installed.

ALERT**ALERT**

Also this revision is sent to tell operators that the Accomplishment Instructions, paragraph 3.B., Work Instructions has been changed to a new format and grouped in two parts, PART 1 and PART 2. A new part, PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006 or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

These sections were changed:

1. Summary page, Action:

Changes were made to group existing actions in two parts, PART 1 and PART 2. PART 1 and PART 2 are applicable to airplanes that did not accomplish service bulletin. A new PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006, or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

2. Summary page, Compliance:

The compliance recommendation has been reset to 36 months from the date of Revision 2 of the service bulletin. The related NPRM and the related emergency AD have been referenced.

3. Planning information, Effectivity:

Airplane groups 1 through 18 have been divided in two configurations, configuration 1 formed by airplanes that did not incorporate the Original Issue or Revision 1 of this service bulletin, and configuration 2 formed by airplanes that incorporated the Original Issue of this service bulletin, or Revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008

4. Planning information, Reason:

A list with all changes has been added to this section.

5. Planning information, Description:

Changes were made to group existing actions in two parts, PART 1 and PART 2. PART 1 and PART 2 are applicable to airplanes that did not accomplish service bulletin original issue or revision 1. A new PART 3 has been added that provide work instructions for Operators that incorporated the original issue of this service bulletin dated January 11, 2006 or revision 1 of this service bulletin dated January 30, 2008 and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

The "No More Work" statement for revision 1, that was missing, has been added.

The "No More Work" and "More Work" statements for revision 2 had been added.

6. Planning Information, Compliance:

The compliance recommendation has been reset to 36 months from the date of Revision 2 of the service bulletin. The related NPRM and the related emergency AD have been referenced.

7. Planning Information, Approval:

An AMOC (Alternative Method of Compliance) statement has been added for the Emergency Airworthiness Directive AD 2008-24-51 dated November 18, 2008.

ALERT**ALERT****8. Planning information, Manpower:**

A manpower table has been added for configuration 2 airplanes.

9. Material Information:

Kit ROLT, date, and prices are changed.

Changes are made to Kit 233A6253 - P61 Fuel Test Panel Installation to add the new panel part numbers BACP10U0187HC, BACP10U0412HC, and BACP10U0562HC.

Changes are made to the Parts and Materials Supplied by the Operator section to add the new panel part numbers BACP10U0187HC, BACP10U0412HC, and BACP10U0562HC

Changes are made to the Parts Modified and Reidentified table to add the existing J4 Junction Box part number 284A1204-116 and the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

10. Accomplishment Instructions:

Existing Work Instructions section has been changed to a new format and grouped in two parts, PART 1 and PART 2. A new part, PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006, or Revision 1 of this service bulletin dated January 30, 2008, and did not incorporate the Emergency AD 2008-24-51 dated November 18, 2008.

11. Figures:

The effectivity of all figures has been updated to include configuration 1.

Figure 8- Changes are made to add an existing J4 Junction Box part number 284A1204-116 that was missing from previous revision, and to add the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

Figure 24, step 11 - Changed the J20 Junction Box part number to correct a typographical error. J20 Junction Box part number was changed from 284A3203-38 to 284A3203-29.

Figure 33 - Changes are made to show the correct the location of Terminal 5 and to add a detail with Terminal Block TB5060F.

Figure 34 - Added note "Phase C" at Terminal 5 of Terminal Block TB5060F.

Figure 35 - Changes are made to show the correct location of Terminal 5 and to add a detail with Terminal Block TB5060F.

Figure 36 - Added note "Phase C" at Terminal 5 of Terminal Block TB5060F.

Figure 55- Changes are made to add an existing J4 Junction Box part number 284A1204-116 that was missing from previous revision, and to add the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

Figure 58 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

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Figure 59 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

Figure 60 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

The data given in Information Notice 737-28A1206 IN 03 and IN 04 is included in this revision.

Paragraph 1.A., Effectivity, shows changes of airplane operators. Each operator should examine the Effectivity paragraph for changes.

Vertical lines are put on the left edge of each page, except in Paragraph 1.A., Effectivity, to show the location of important changes.

Pages with no vertical lines have no important changes.

REVISION HISTORY

Original Issue:	January 11, 2006
Revision 1:	January 30, 2008
Revision 2:	May 21, 2009



Service Bulletin

ALERT

Number: 737-28A1206

Summary

Original Issue: January 11, 2006

Revision 2: May 21, 2009

ATA System: 2822 3152

SUBJECT: FUEL - Distribution - Center Fuel Tank Boost Pump Auto Shutoff and Master Caution Logic Change

THIS BULLETIN IS SENT TO THE OPERATORS OF RECORD OF THE AIRPLANES SHOWN IN PARAGRAPH 1.A., EFFECTIVITY. IF AN AIRPLANE HAS BEEN LEASED OR SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OPERATOR. IF APPLICABLE SPARES HAVE BEEN SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OWNER.

CONCURRENT REQUIREMENTS

Refer to Paragraph 1.B., Concurrent Requirements.

BACKGROUND

This service bulletin gives the instructions and a kit of parts to install an automatic shut off system for the fuel boost pumps in the center fuel tank. Time delay relays are installed in the J4 and J20 junction boxes that will shut off the pumps if the pumps operate with continuous low pressure for 15 seconds. If no fuel is available, the pump will turn off in 15 seconds. The master caution circuit is changed to provide indication to the flight crew when either center fuel tank pump runs dry for more than 10 seconds. The flight crew stays in primary control, with the automatic shut off system as backup, to stop the pumps after a low pressure indication.

This service bulletin is the result of the safety assessments conducted by Boeing under SFAR 88, "Fuel Tank System Fault Tolerance Evaluation Requirements". Boeing found that fuel pump operation with continuous low pressure could result in friction sparks or overheating in the fuel pump inlet. The high temperatures could create a possible source of ignition of flammable fuel vapors in the fuel tanks. Ignition of flammable fuel vapors could cause a fire or explosion which could put the airplane in an unsafe condition. Installation of the automatic shut off system adds fuel pump inlet protection against friction sparks and friction overheat damage in the fuel tanks.

This change affects section 9 of the Maintenance Planning Data (MPD) Document. New Airworthiness Limitations (AWL) "28-AWL-19" will be added to Section 9 of the MPD to include an operational check of the center tank boost pump Auto Shutoff System. This change also affects Section 1 and Section 3 of the FAA Approved Airplane Flight Manual (AFM).

Boeing Service Related Problem (SRP) 737NG-SRP-28-0091 is related to this service bulletin.

ALERT**ALERT**

As a part of a service bulletin validation program, this change was completed on airplane YE003 after the release of the original issue of this Service Bulletin. The change completed on airplane YE003 is equivalent to the change given in Revision 1 of this service bulletin. Airplane YE003 has the configuration of a Group 13 airplane.

ACTION (PRR 38545-20S)**PART 1**

1. Get access to the flight compartment. At the P5 overhead panel, replace the P5-2 fuel control module. At the P61 panel, install the P61-8 fuel test panel. At the P6-3 circuit breaker panel, add four circuit breakers and markers. Add five wires to the W0040 wire bundle in the P6 circuit breaker panel. Add eight wires to the W0044 wire bundle. These wires are located between the P6-3 circuit breaker and the P61-8 fuel test panels in the flight compartment and the J4 and J20 boxes in the electrical / electronics compartment.
2. Get access to the electrical / electronics compartment. Replace the J20 box. Add two relays and markers at the J20 box. Add ten wires to the W0072 wire bundle in the J20 box. Add two relays and markers at the J4 box. Add ten wires to the W0094 wire bundle in the J4 box. Add five wires to the W0212 wire bundle on the E2-1 electronics shelf in the electrical / electronics compartment. Add two wires to the W2112 wire bundle located between the E2-1 electronics shelf and the P5-2 fuel control panel in the flight compartment. Add three wires to the W0422 wire bundle on the E4-2 electronics shelf in the electrical / electronics compartment. Add one wire to the W2218 wire bundle located between the E4-2 electronics shelf and the P5-2 fuel control panel. Add three wires to the W5158 wire bundle located between the E2-1 electronics shelf and the J20 box. Add three wires to the W5160 wire bundle located between the E4-2 electronics shelf and the J4 box.

PART 2

1. Do the operational tests of the automatic shutoff system for the fuel boost pumps installed in accordance with PART 1.

PART 3

1. Airplanes that accomplished the original issue of this service bulletin dated January 11, 2006, or revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008 need to do the operational test given in accomplishment instructions paragraph 3.B, Part 3.

EFFECTIVITY

737-600/700/700C/800/900 airplanes. Refer to Paragraph 1.A.1 Airplanes, for the list of affected airplanes.

COMPLIANCE

Boeing recommends that the change given in this service bulletin be done before 36 months after the date on Revision 2 of this service bulletin.

Federal Aviation Administration (FAA) Notice of Proposed Rule Making NPRM 2007-NM-013-AD, is related to this service bulletin.

Federal Aviation Administration (FAA) Airworthiness Directive 2008-24-51 is related to this service bulletin.

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INDUSTRY SUPPORT INFORMATION

Boeing warranty remedies are not available for the configuration changes given in this service bulletin.

MANPOWER

Refer to Service Bulletin Manpower Paragraph, 1.G.

MATERIAL INFORMATION

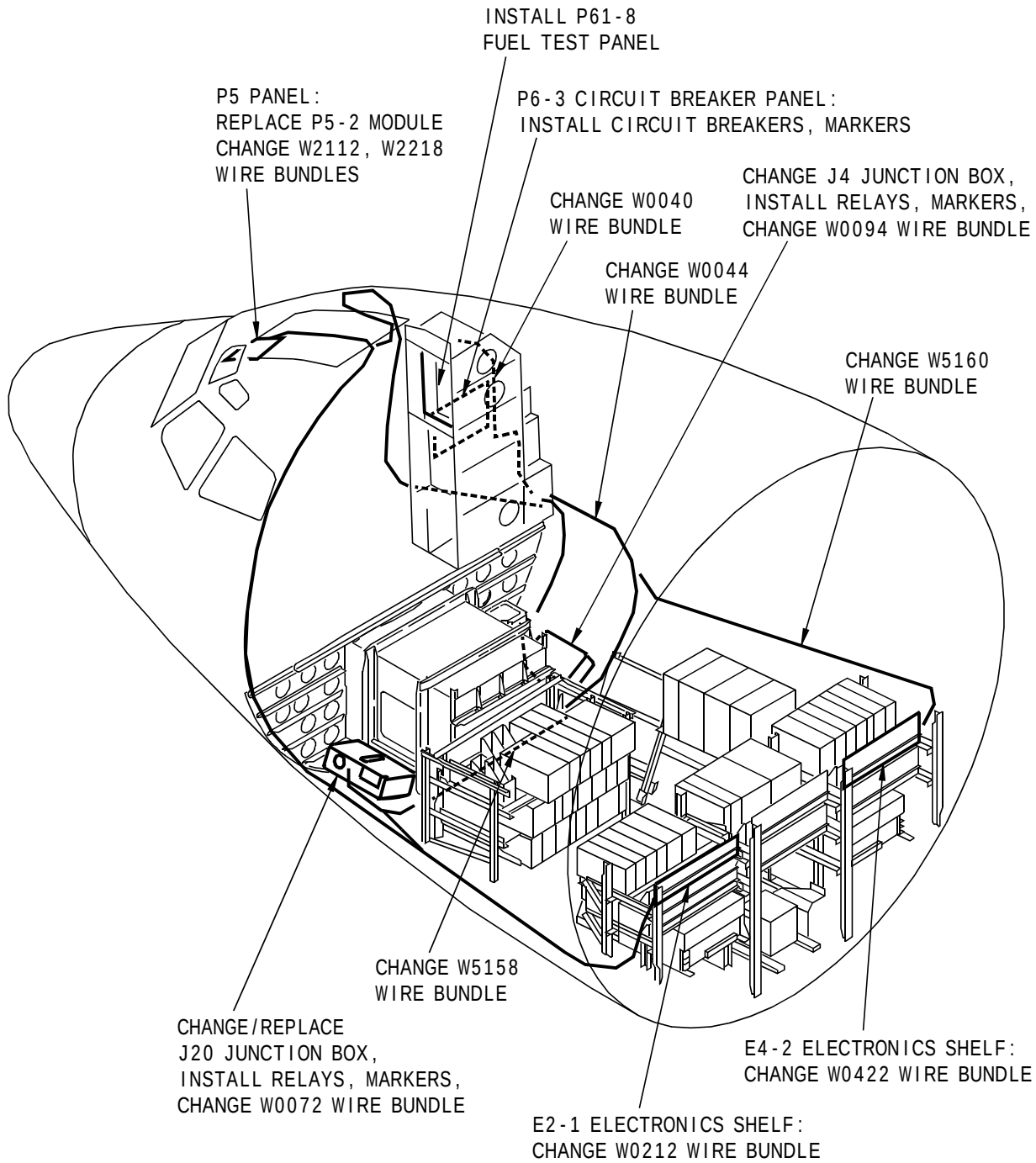
Boeing Supplied Kits/Parts.

Refer to Paragraph 2.A., Material - Price and Availability.

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THIS BULLETIN IS SENT TO THE OPERATORS OF RECORD OF THE AIRPLANES SHOWN IN PARAGRAPH 1.A., EFFECTIVITY. IF AN AIRPLANE HAS BEEN LEASED OR SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OPERATOR. IF APPLICABLE SPARES HAVE BEEN SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OWNER.

1. PLANNING INFORMATION

A. Effectivity

1. Airplanes

This service bulletin is for the airplanes shown below. An equivalent change is on subsequent production airplanes. Refer to PRR 38545-20S for data about this change.

Refer to Service Bulletin Index Document D6-19567 Part 3 for Airplane Variable Number, Line Number, and Serial Number data.

GROUP	CONFIGURATION	DESCRIPTION
1	-	737-700C airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

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GROUP	CONFIGURATION	DESCRIPTION
2	-	737-700C airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
3	-	737-700C airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
4	-	737-700C airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
5	-	737-600, -700, -800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
6	-	737-600, -700, -800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

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GROUP	CONFIGURATION	DESCRIPTION
7	-	737-700, -800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
8	-	737-700, -800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
9	-	737-700 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
10	-	737-600, -700, -800, -900 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
11	-	737-600, -700, -800, -900 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

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GROUP	CONFIGURATION	DESCRIPTION
12	-	737-800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
13	-	737-600, -700, -800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
14	-	737-800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
15	-	737-800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
16	-	737-800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

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GROUP	CONFIGURATION	DESCRIPTION
17	-	737-800 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.
18	-	737-700 airplanes. Wiring configuration differences.
	1	Airplanes that have not accomplished the original issue or revision 1 of this service bulletin.
	2	Airplanes that accomplished the original issue or revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

Airplane models:

737-600 737-700 737-700C 737-800
737-900

IDENTIFICATION BY CUSTOMER, CUSTOMER CODE, GROUP AND VARIABLE NUMBER

AEROMEXICO (AMX)

11 YB207 YB851–YB857

AIR ALGERIE (ALG)

10 YD106–YD107
11 YE301–YE305
5 YD101
6 YD102–YD105

AIR BERLIN (BER)

10	YA356	YA614–YA615	YB203	YC067–YC070
	YC730	YD151–YD152		
11	YA357	YD153–YD157	YD218	YD261
13	YC051–YC058	YC391	YC701	YC703
	YC705			
5	YC059–YC063	YC461		
6	YC064–YC066	YC151		
8	YB201			

AIR CHINA (BEJ)

11 YC948–YC951
5 YC981–YC983
6 YA681–YA682
7 YC943–YC947

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BOEING SERVICE BULLETIN 737-28A1206

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AIR CHINA CHONGQING BRANCH (CHO)
7 YC941–YC942

AIR CHINA SOUTHWEST BRANCH (XIN)
10 YC426 YE203
11 YC427–YC428 YE204–YE206

AIR CHINA TIANJIN BRANCH (TJA)
11 YB581–YB583

AIR EUROPA (ARE)
10 YD206
11 YD207–YD209 YK002–YK003
13 YC761–YC763
5 YC764–YC770
6 YD046–YD049

AIR MADAGASCAR (MAD)
13 YG016

AIR NATIONAL GUARD (USK)
11 YG044
5 YG067 YG069

AIR PACIFIC (APC)
13 YA291 YC931
5 YC932

AIR SENEGAL INTERNATIONAL (SNG)
6 YA683–YA684

AIRES S.A. (AIE)
13 YA575

ALASKA AIRLINES (ASA)
10 YD502–YD506
11 YA858 YA860–YA862 YD501 YD507–YD512
13 YA841
5 YA842–YA850
6 YA851–YA856

AMERICAN AIRLINES (AAL)
10 YC862–YC877
13 YC801–YC814
5 YC815–YC838
6 YC839–YC861

AMIRI FLIGHT (ABD)
11 YD410
6 YG039

ARABASCO (RBS)
5 YG029

BOEING SERVICE BULLETIN 737-28A1206

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ARAMCO ASSOCIATED COMPANY (RAS)

4 YG601–YG602

6 YB151–YB153

ASTRAEUS, LTD. (AUA)

11 YA671–YA672

ATLANT-SOYUZ (AYZ)

11 YC491–YC493

5 YC906

AUSTRALIAN WEDGETAIL PROGRAM (ZVI)

11 YG089 YG201

AUSTRIAN AIRLINES AG (AUL)

10 YB172

11 YC383–YC384

13 YC381

15 YC382

5 YE171–YE172

6 YB171

AVENIR WORLDWIDE (BBJ) LIMITED (AWO)

5 YG034

AVIATION CAPITAL GROUP (CGP)

11 YK001

13 YA203 YC103

AVJET (AJT)

10 YG079

AWAS (AWW)

13 YA731

5 YC903

BANCO SAFRA (BNS)

10 YG040

BEL AIR LIMITED (ULL)

13 YG022

BELAVIA (ITU)

11 YD408

BLUE AIR (BTR)

5 YC480

6 YC481

BOEING DEMONSTRATOR JET (BCJ)

5 YG035–YG036

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

BOETTI AIR INC. (BBI)
5 YG068

CANJET (CNJ)
5 YC476 YC478

CARIBBEAN AIRLINES LIMITED (CBL)
11 YD317
5 YC136–YC139
6 YC140–YC141

CHARTWELL (CHP)
13 YG017

CHINA AIRLINES (CHI)
11 YC582
13 YC571 YC574–YC580
6 YC581

CHINA EASTERN AIRLINES (CEA)
11 YB206 YB561–YB570
13 YA811–YA814

CHINA EASTERN AIRLINES WUHAN (WUH)
10 YD172
8 YD171

CHINA SOUTHERN AIRLINES (GUN)
10 YD313
11 YB881–YB882 YC921–YC922 YD316 YD320
YD322 YD324–YD327 YD329 YJ671–YJ682
6 YC027

CHINA UNITED AIRLINES (CUL)
11 YB631–YB632

CHINA UNITED AIRLINES LTD. (CUA)
13 YA272

CHINA XINJIANG AIRLINES (XIJ)
10 YA255–YA256 YA645 YA656

CLAY LACY AVIATION (CYA)
5 YG037

COLOMBIAN AIR FORCE (CLB)
13 YG028

COMMONWEALTH OF AUSTRALIA (GAU)
5 YG072
6 YG075

BOEING SERVICE BULLETIN 737-28A1206

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CONTINENTAL AIRLINES (CAL)

10	YC379–YC380	YD601–YD610	YJ501–YJ513
11	YD611–YD612	YJ514–YJ517	YJ531–YJ537
13	YA501–YA529	YC321–YC343	
5	YA530–YA536	YC344–YC365	
6	YC366–YC378		

COPA AIRLINES (COP)

11	YA967–YA972	YJ591–YJ592
13	YA755–YA756	
5	YA961–YA966	

CYPRUS TURKISH AIRLINES (KTHY) (KHT)

10	YC467
7	YD021–YD022

DALLAH AL BARAKA (KAM)

5	YG063
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DELTA AIR LINES (DAL)

10	YC629–YC651	
11	YC652–YC655	
13	YC601–YC605	
17	YC606–YC607	
5	YC608–YC624	YC681
6	YC625–YC628	YC682–YC696

DOBRO LIMITED (DOB)

13	YG008
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DUBAI AEROSPACE ENTERPRISE (DUE)

13	YA204
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DUBAI AIR WING (DAW)

13	YG007
6	YD402

E & A AVIATION (RSB)

10	YG082
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EASTAR JET (ETJ)

10	YB108
13	YE105

EASYJET (EZY)

10	YB106
11	YB110–YB131
6	YB101–YB103

EG&G TECHNICAL SERVICES (EGN)

10	YE201–YE202
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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

EIE EAGLE (EIE)
11 YD409

EL AL ISRAEL AIRLINES (ELA)
10 YC147
11 YD219
13 YC405 YC591–YC593
5 YA881
9 YA882

ETHIOPIAN AIRLINES (ETH)
11 YA666–YA667 YB156

EUROCYPRIA AIRLINES (ECY)
11 YC186–YC189

EVA AIR (EVA)
11 YG083

FIRST VIRTUAL AIR II, LLC (FVA)
13 YG001

FLYGLOBESPAN.COM (FGS)
13 YE106

FUNAIR (FUN)
13 YG027

FUTURA (FUA)
11 YJ011
13 YC406–YC407
5 YC410 YC451 YC464 YC466
6 YC727

GAMA AVIATION LTD (GAV)
13 YG010

GARUDA INDONESIA (GIA)
11 YC436–YC437 YD319 YD323 YJ473
YJ475

GAZPROMAVIA (GAZ)
6 YA621–YA622

GECAS (GEF)
10 YA629
6 YA627–YA628

GERMANIA (GER)
13 YA231 YA233 YA235–YA240

GLOBAL JET AUSTRIA (GLJ)
10 YD404

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****GLOBAL JET LUXEMBOURG (SIQ)**

6 YG038

GOL AIRLINES (GOT)

10	YA646–YA647	YB104–YB105	YB107	YB202
	YB271	YB501–YB502	YC728–YC729	YD302–YD303
	YD306–YD307	YJ471		
11	YA211	YA221	YA648	YA650
	YA657	YD256–YD257	YJ472	
13	YA232	YA234	YA241–YA242	YA251–YA252
	YA321	YA571–YA572	YA601–YA602	YA605
	YC101	YC402–YC403	YC471–YC473	YC572–YC573
18	YA201–YA202			
5	YA322	YA607–YA608	YA610–YA612	YA732–YA733
	YC453	YC474–YC475		
6	YA323			

GOVT OF EQUATORIAL GUINEA (EGR)

11 YG085

HAINAN AIRLINES (HNA)

10	YC974–YC976			
11	YA857	YA859	YC977–YC978	YD216
13	YA544	YA546	YA603–YA604	YA606
	YC126–YC127	YC401	YC404	
5	YC409	YC452	YC971–YC972	YD042–YD045
6	YC973			

HAMBURG INTERNATIONAL (HAU)

5 YA578
6 YB276

ILFC (ILF)

13 YA302

JEJU AIR (JJU)

13 YC704
5 YC707

JET AIRWAYS (JPL)

10	YB181–YB183	YD309	YD311–YD312	
11	YA630	YB184	YC738–YC741	YD328
	YD330	YD571–YD572		
13	YA751–YA754	YC731–YC734		
5	YC735–YC736			
6	YA734	YC737		

JET AVIATION AG - ZURICH (JTA)

10 YD405
13 YG015

JET AVIATION BUSINESS JET INC (JBJ)

5 YG071

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****JET LITE (JPQ)**

10 YA351
11 YA367 YB651
13 YA253–YA254
5 YC462 YC901–YC902

JET4YOU.COM (JFU)

13 YC010

JETAIRFLY (TLB)

11 YD217 YJ931
5 YA609

KENYA AIRWAYS (KEN)

10 YA635
11 YA636 YA641–YA642

KLM - ROYAL DUTCH AIRLINES (KLM)

10 YD531–YD534
14 YC781–YC783
7 YC784–YC787
8 YC788–YC793

KOREAN AIR (KAL)

10 YC448 YD124–YD126 YD541–YD542
11 YD543–YD547 YD561–YD564
7 YC441–YC445
8 YC446–YC447 YD121–YD123

LAS VEGAS JET (LVJ)

13 YG002

LEGATUM (LGM)

5 YG062

LIMITED BRAND INC. (LII)

13 YG005

LOWA CORPORATION (LWA)

10 YD406

LUXAIR (LUX)

11 YB901–YB902

MALEV HUNGARIAN AIRLINES LTD. (HGA)

11 YA371–YA374 YC201–YC202 YC206 YE321–YE325

MANDARIN AIRLINES (MDN)

6 YC587 YC589

MGM MIRAGE (MGM)

10 YG042

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****MIAMI AIR (MIB)**

10 YC904–YC905 YD304
11 YK121–YK122
6 YC146

MID EAST JET (SKL)

10 YD407
13 YG013–YG014 YG021

MONGOLIAN AIRLINES MIAT (MNG)

11 YJ476
5 YC477

N720CH, INC. (NCH)

5 YG019

NATIONAL (NJI)

5 YG032

NATIONAL AIR SERVICES (NAR)

10 YD403 YG080
11 YG086–YG087

NEOS (NEO)

11 YJ002 YJ021 YJ631–YJ632

NETJETS (NJL)

5 YG031 YG033

NEWS AMERICA INCORPORATED (NWS)

13 YG020

NORWEGIAN AIR SHUTTLE AS (NSB)

10 YC907
5 YC455
6 YC412

OKAY AIRWAYS COMPANY LIMITED (OKY)

11 YD332

OMAN AIR (OMR)

10 YC171
11 YA366 YB551 YJ901

ORENBURG AIRLINES (ORG)

10 YD308
11 YD318
5 YC479

ORIENT GLOBAL AVIATION (VTU)

13 YG011

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****PACIFIC BLUE AIRLINES (BLP)**

11 YJ865–YJ866 YK321

PEGASUS AIRLINES (PGS)

10 YC392

11 YC414–YC415 YD391

8 YD025

PEMBROKE CAPITAL LIMITED (PEB)

13 YA574 YA576

PICTON II (UNU)

13 YG006

PRIME AVIATION KZ (PKZ)

10 YG077

PRIMERA AIR (JXL)

11 YJ001

5 YC454

6 YC588

PRIVATAIR (PTS)

5 YG064

QANTAS (QAN)

10 YC878–YC879

11 YC880–YC892 YJ911–YJ916

REPUBLIC OF CHINA AIR FORCE (CAF)

7 YC396

ROYAL AIR MAROC (RAM)

11 YA835 YC304–YC305 YK301–YK302

13 YA831–YA832 YC301–YC302

5 YA833–YA834 YC303

ROYAL JET (RJT)

13 YG018 YG023

5 YG024–YG026

ROYAL MALAYSIA AIR FORCE (MAF)

5 YG061

RYANAIR (RYR)

10 YC486–YC488

11 YC489–YC490 YC494–YC499 YJ801–YJ822

6 YC482–YC485

S7 AIRLINES (SBR)

10 YD301 YD310 YD314

11 YD315

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****SAGA AIRLINES (SGV)**

10 YD305

11 YD321

SANTOS DUMONT (DMT)

5 YC463

SAS (SAS)

10 YD052

11 YD055

13 YE001

YE003–YE005

YE007

YE009

YE011–YE012

YE101–YE104

YE107–YE108

5 YE016

YE018

YE020

YE109

6 YD051

YD082

YE051

SAS INSTITUTE INC. (SJS)

10 YG041

SAS NORWAY (BRT)

10 YD053

11 YA551–YA552

YD054

YD056

13 YA311

YA543

YA545

YE002

YE006

YE008

YE010

5 YA547–YA548

YB001–YB006

YD041

YE013–YE015

YE017

YE019

6 YA549–YA550

YD050

YD081

YD083–YD084

SAUDI OGER (SAO)

6 YD401

YG073

SHANGHAI AIRLINES (SHA)

10 YC166

11 YC167–YC169

YC394

YJ003–YJ004

YJ871

13 YA312–YA314

7 YA891–YA892

SHENZHEN AIRLINES (SHZ)

10 YA613

YA687

YA809

YC154

YC413

11 YK101–YK104

13 YA721–YA722

6 YA626

YA686

YA801–YA803

YC153

YC411

SOUTH AFRICAN AIRFORCE (SFF)

6 YG076

BOEING SERVICE BULLETIN 737-28A1206

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SOUTH AFRICAN AIRWAYS (SAA)

10 YC715 YC724–YC725
11 YD481–YD485
5 YC708–YC709
6 YC710–YC714 YC720–YC723
7 YD023
8 YD024

SOUTHERN AIRCRAFT SERVICES (HUZ)

13 YG009

SOUTHWEST AIRLINES (SWA)

10 YA101–YA118 YB204–YB205
11 YA119–YA156
13 YA001–YA041 YA271 YA301 YA541–YA542
5 YA042–YA072
6 YA073–YA099

SPICEJET (ROJ)

11 YD331
5 YC465

STERLING AIR (STR)

11 YJ933
13 YA205–YA206 YA573 YC102
5 YA207
6 YA208–YA210

SUN COUNTRY AIRLINES (SCA)

10 YB109 YC155–YC156
13 YC121
6 YC104 YC152

SUNEXPRESS (SNS)

10 YC417 YD202
11 YJ477–YJ480
13 YC702 YC706
6 YC416 YD201

SUNWING AIRLINES INC. (SUG)

11 YK004

SWIFLITE AIRCRAFT CORPORATION (OSF)

10 YG078

TAROM - ROMANIAN AIR TRANSPORT (TRM)

10 YB162
11 YB163–YB164
6 YB161

THOMSON AIRWAYS (BRI)

5 YD001–YD002
7 YD003–YD004

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

TOWN & COUNTRY FOODS INC. (RUF)
13 YG003

TRACINDA CORP. (TRD)
13 YG004

TRANSAVIA AIRLINES (TAV)
10 YB521 YC082
11 YB522–YB525 YB541–YB544 YC083 YC091–YC094
15 YC071–YC073
16 YC074–YC076
7 YC077–YC080
8 YC081

TRANSAVIA FRANCE (TVF)
13 YC751–YC752

TRAVEL SERVICE (TSF)
10 YC459 YD203
11 YJ474 YK005 YK131
13 YC408

TUIFLY (HAP)
10 YC028
11 YC029–YC030
13 YA577 YC001–YC009 YC011
5 YC012–YC019
6 YC020–YC026

TUIFLY NORDIC (TNS)
11 YD006–YD007
7 YD005

TUNISAIR (TUN)
13 YE151–YE153
5 YE154–YE156 YG030
6 YE157

TURKISH AIRLINES (THY)
11 YC525–YC526
12 YC501–YC506
13 YC507–YC513
5 YC514–YC522
6 YC523–YC524

TURNBERRY (TNY)
13 YG012

TUTOR-SALIBA CORPORATION (TTS)
5 YG070

TY AIR (YIP)
5 YG066

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****UNITED STATES NAVY (USN)**

1 YG501–YG502
 2 YG503–YG504
 3 YG505–YG506

US AIR FORCE (USF)

10 YG081
 11 YG084 YG088
 6 YG074

VIKING AIRLINES (VAI)

6 YC113

VIRGIN BLUE AIRLINES (VOZ)

10	YA337–YA340	YA688–YA690	YC421	YD251
11	YA341–YA345	YA649	YA658–YA659	YA691
	YB208	YC393	YC422	YD252–YD254
	YJ861–YJ864	YJ867	YJ932	YK111–YK112
	YK322	YM101		
6	YA336	YA685		

WESTJET (WJI)

10 YB301–YB305
 11 YB306–YB310 YB601–YB619

XIAMEN AIRLINES (XIA)

11 YA707–YA710
 13 YA701–YA704
 8 YA705–YA706

XL AIRWAYS GERMANY (SXL)

13 YC111–YC112

YEMENIA (YEM)

11 YC176–YC178

YONA (IOP)

11 YG043

IDENTIFICATION BY VARIABLE NUMBER

Variable	Group
YA001–YA041	13
YA042–YA072	5
YA073–YA099	6
YA101–YA118	10
YA119–YA156	11
YA201–YA202	18
YA203–YA206	13
YA207	5

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YA208–YA210	6
YA211	11
YA221	11
YA231–YA242	13
YA251–YA254	13
YA255–YA256	10
YA271–YA272	13
YA291	13
YA301–YA302	13
YA311–YA314	13
YA321	13
YA322	5
YA323	6
YA336	6
YA337–YA340	10
YA341–YA345	11
YA351	10
YA356	10
YA357	11
YA366–YA367	11
YA371–YA374	11
YA501–YA529	13
YA530–YA536	5
YA541–YA546	13
YA547–YA548	5
YA549–YA550	6
YA551–YA552	11
YA571–YA577	13
YA578	5
YA601–YA606	13
YA607–YA612	5
YA613–YA615	10
YA621–YA622	6
YA626–YA628	6
YA629	10
YA630	11
YA635	10
YA636	11
YA641–YA642	11

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YA645–YA647	10
YA648–YA650	11
YA656	10
YA657–YA659	11
YA666–YA667	11
YA671–YA672	11
YA681–YA686	6
YA687–YA690	10
YA691	11
YA701–YA704	13
YA705–YA706	8
YA707–YA710	11
YA721–YA722	13
YA731	13
YA732–YA733	5
YA734	6
YA751–YA756	13
YA801–YA803	6
YA809	10
YA811–YA814	13
YA831–YA832	13
YA833–YA834	5
YA835	11
YA841	13
YA842–YA850	5
YA851–YA856	6
YA857–YA862	11
YA881	5
YA882	9
YA891–YA892	7
YA961–YA966	5
YA967–YA972	11
YB001–YB006	5
YB101–YB103	6
YB104–YB109	10
YB110–YB131	11
YB151–YB153	6
YB156	11
YB161	6

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YB162	10
YB163–YB164	11
YB171	6
YB172	10
YB181–YB183	10
YB184	11
YB201	8
YB202–YB205	10
YB206–YB208	11
YB271	10
YB276	6
YB301–YB305	10
YB306–YB310	11
YB501–YB502	10
YB521	10
YB522–YB525	11
YB541–YB544	11
YB551	11
YB561–YB570	11
YB581–YB583	11
YB601–YB619	11
YB631–YB632	11
YB651	11
YB851–YB857	11
YB881–YB882	11
YB901–YB902	11
YC001–YC011	13
YC012–YC019	5
YC020–YC027	6
YC028	10
YC029–YC030	11
YC051–YC058	13
YC059–YC063	5
YC064–YC066	6
YC067–YC070	10
YC071–YC073	15
YC074–YC076	16
YC077–YC080	7
YC081	8

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YC082	10
YC083	11
YC091–YC094	11
YC101–YC103	13
YC104	6
YC111–YC112	13
YC113	6
YC121	13
YC126–YC127	13
YC136–YC139	5
YC140–YC141	6
YC146	6
YC147	10
YC151–YC153	6
YC154–YC156	10
YC166	10
YC167–YC169	11
YC171	10
YC176–YC178	11
YC186–YC189	11
YC201–YC202	11
YC206	11
YC301–YC302	13
YC303	5
YC304–YC305	11
YC321–YC343	13
YC344–YC365	5
YC366–YC378	6
YC379–YC380	10
YC381	13
YC382	15
YC383–YC384	11
YC391	13
YC392	10
YC393–YC394	11
YC396	7
YC401–YC408	13
YC409–YC410	5
YC411–YC412	6

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YC413	10
YC414–YC415	11
YC416	6
YC417	10
YC421	10
YC422	11
YC426	10
YC427–YC428	11
YC436–YC437	11
YC441–YC445	7
YC446–YC447	8
YC448	10
YC451–YC455	5
YC459	10
YC461–YC466	5
YC467	10
YC471–YC473	13
YC474–YC480	5
YC481–YC485	6
YC486–YC488	10
YC489–YC499	11
YC501–YC506	12
YC507–YC513	13
YC514–YC522	5
YC523–YC524	6
YC525–YC526	11
YC571–YC580	13
YC581	6
YC582–YC583	11
YC587–YC589	6
YC591–YC593	13
YC601–YC605	13
YC606–YC607	17
YC608–YC624	5
YC625–YC628	6
YC629–YC651	10
YC652–YC655	11
YC681	5
YC682–YC696	6

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

Variable	Group
YC701–YC706	13
YC707–YC709	5
YC710–YC714	6
YC715	10
YC720–YC723	6
YC724–YC725	10
YC727	6
YC728–YC730	10
YC731–YC734	13
YC735–YC736	5
YC737	6
YC738–YC741	11
YC751–YC752	13
YC761–YC763	13
YC764–YC770	5
YC781–YC783	14
YC784–YC787	7
YC788–YC793	8
YC801–YC814	13
YC815–YC838	5
YC839–YC861	6
YC862–YC879	10
YC880–YC892	11
YC901–YC903	5
YC904–YC905	10
YC906	5
YC907	10
YC921–YC922	11
YC931	13
YC932	5
YC941–YC947	7
YC948–YC951	11
YC971–YC972	5
YC973	6
YC974–YC976	10
YC977–YC978	11
YC981–YC983	5
YD001–YD002	5
YD003–YD005	7

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Variable	Group
YD006–YD007	11
YD021–YD023	7
YD024–YD025	8
YD041–YD045	5
YD046–YD051	6
YD052–YD053	10
YD054–YD056	11
YD081–YD084	6
YD101	5
YD102–YD105	6
YD106–YD107	10
YD121–YD123	8
YD124–YD126	10
YD151–YD152	10
YD153–YD157	11
YD171	8
YD172	10
YD201	6
YD202–YD203	10
YD206	10
YD207–YD209	11
YD216–YD219	11
YD251	10
YD252–YD254	11
YD256–YD257	11
YD261	11
YD301–YD314	10
YD315–YD332	11
YD391	11
YD401–YD402	6
YD403–YD407	10
YD408–YD410	11
YD481–YD485	11
YD501	11
YD502–YD506	10
YD507–YD512	11
YD531–YD534	10
YD541–YD542	10
YD543–YD547	11

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Variable	Group
YD561–YD564	11
YD571–YD572	11
YD601–YD610	10
YD611–YD612	11
YE001–YE012	13
YE013–YE020	5
YE051	6
YE101–YE108	13
YE109	5
YE151–YE153	13
YE154–YE156	5
YE157	6
YE171–YE172	5
YE201–YE203	10
YE204–YE206	11
YE301–YE305	11
YE321–YE325	11
YG001–YG018	13
YG019	5
YG020–YG023	13
YG024–YG026	5
YG027–YG028	13
YG029–YG037	5
YG038–YG039	6
YG040–YG042	10
YG043–YG044	11
YG061–YG064	5
YG066–YG072	5
YG073–YG076	6
YG077–YG082	10
YG083–YG089	11
YG201	11
YG501–YG502	1
YG503–YG504	2
YG505–YG506	3
YG601–YG602	4
YJ001–YJ004	11
YJ011	11
YJ021	11

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Variable	Group
YJ471	10
YJ472–YJ480	11
YJ501–YJ513	10
YJ514–YJ517	11
YJ531–YJ537	11
YJ591–YJ592	11
YJ631–YJ632	11
YJ671–YJ682	11
YJ801–YJ822	11
YJ861–YJ867	11
YJ871	11
YJ901	11
YJ911–YJ916	11
YJ931–YJ933	11
YK001–YK005	11
YK101–YK104	11
YK111–YK112	11
YK121–YK122	11
YK131	11
YK301–YK302	11
YK321–YK322	11
YM101	11

2. Spares Affected

Examine your spares supply for the parts or components identified in Paragraph 2.C., Parts Necessary for Each Airplane. If any parts or components are found, refer to Paragraph 2.C. for the recommended use.

B. Concurrent Requirements

The service bulletin(s) listed below must be done before or at the same time as this service bulletin:

Company	Service Bulletin	Description
Boeing	233A3202-28-03 Original Issue	This component service bulletin adds a new indication logic to the P5-2 Fuel Control Module. The new logic will give a low pressure master caution annunciation for each of the center tank fuel boost pumps.

ALERT**ALERT****C. Reason**

This service bulletin gives the instructions and a kit of parts to install an automatic shut off system for the fuel boost pumps in the center fuel tank. Time delay relays are installed in the J4 and J20 junction boxes that will shut off the pumps if the pumps operate with continuous low pressure for 15 seconds. If no fuel is available, the pump will turn off in 15 seconds. The master caution circuit is changed to provide indication to the flight crew when either center fuel tank pump runs dry for more than 10 seconds. The flight crew stays in primary control, with the automatic shut off system as backup, to stop the pumps after a low pressure indication.

This service bulletin is the result of the safety assessments conducted by Boeing under SFAR 88, "Fuel Tank System Fault Tolerance Evaluation Requirements". Boeing found that fuel pump operation with continuous low pressure could result in friction sparks or overheating in the fuel pump inlet. The high temperatures could create a possible source of ignition of flammable fuel vapors in the fuel tanks. Ignition of flammable fuel vapors could cause a fire or explosion which could put the airplane in an unsafe condition. Installation of the automatic shut off system adds fuel pump inlet protection against friction sparks and friction overheat damage in the fuel tanks.

This change affects section 9 of the Maintenance Planning Data (MPD) Document. New Airworthiness Limitations (AWL) "28-AWL-19" will be added to Section 9 of the MPD to include an operational check of the center tank boost pump Auto Shutoff System. This change also affects Section 1 and Section 3 of the FAA Approved Airplane Flight Manual (AFM).

Boeing Service Related Problem (SRP) 737NG-SRP-28-0091 is related to this service bulletin.

As a part of a service bulletin validation program, this change was completed on airplane YE003 after the release of the original issue of this Service Bulletin. The change completed on airplane YE003 is equivalent to the change given in Revision 1 of this service bulletin. Airplane YE003 has the configuration of a Group 13 airplane.

Revision 1 is sent to clarify the Parts Necessary For Each Airplane, Parts Modified and Reidentified, Parts Removed and Not Replaced, Accomplishment Instructions, location of the P61-8 Fuel Test Panel Installation for new Groups 13 thru 18. This revision also makes changes to the J4 Junction Box Relay Installation, W0094 Wire Bundle Routing, and Wire Bundle W0094 Wiring Change for the new Group 18 airplane. The Service Bulletin has also been updated to reflect the latest Service Bulletin format standards.

These sections were changed:

1. Summary:

A validation paragraph is added and the concurrent requirements and man-power paragraphs are changed.

2. Planning Information:

Changes are made to the effectivity to add new Group 13 thru 18 airplanes. A validation paragraph is added to the Reason paragraph. A publication reference is added for the Illustrated Parts Catalog and the Operations Manual reference is replaced by the new Flight Crew Operations Manual reference. Man-power tables are added for each group. Information Notice 737-28A1206 IN 01 and FAA Approval Letter 140S-07-343 are added to the Approval statement. Changes are made to the Electrical Load Data to revise the DC busbars.

ALERT**ALERT****3. Material Information:**

Kit ROLT, expiry date, and prices are changed.

Changes are made to the Material - Price and Availability table to add the new Top Kits 012A0046-12, 012A0046-13, 012A0046-14, 012A0046-15, and 012A0046-16.

Changes are made to Kit 012A0046 - Center Fuel Tank Boost Pump Auto Shutoff to add new Top Kit part numbers 012A0046-12, 012A0046-13, 012A0046-14, 012A0046-15, 012A0046-16 and Notes are added for all new Group airplanes.

Changes are made to Kit 012A0046-5 Note (e) to remove the Group 12 airplanes.

Changes are made to new Kit 012A0046-14 Note (b) to add the Group 12 airplanes.

Changes are made to Kit 233A6253 - P61 Fuel Test Panel Installation to add new Kit part numbers 233A6253-2, 233A6253-3, and 233A6253-4, and new Panel part numbers BACP10U0187GC, BACP10U0412GC, and BACP10U0562GC. New Notes (a), (b), (c), and (d) are added for the Group 12 airplanes, and new Group 13 thru 18 airplanes.

Changes are made to Wire Kit 280A3113 - Center Fuel Tank Boost Pump Auto Shutoff to replace Kit 280A3113-102 with new Kit 280A3113-112 to show new wire lengths for wires W0044-0937-20 and W0044-0941-20. Notes are re-sequenced as necessary.

Changes are made to Wire Kit 280A3113 - Center Fuel Tank Boost Pump Auto Shutoff to replace Kit 280A3113-103 with new Kit 280A3113-113 to show new wire W0072-0081-24. Notes are re-sequenced as necessary.

A new table is added to show inactive Wire Kits 280A3113-102 and 280A3113-103 - Center Fuel Tank Boost Pump Auto Shutoff.

Changes are made to Kit 284A9200 - J4 and J20 Relay Box Installation to change Bolt part number from BACS12HN03-10 to BACS12HN3-10. Vinyl Decal part number BAC27DEX7122 is changed from R736 to R756.

Changes are made to the Parts and Materials Supplied by the Operator section to add a table for Panel part numbers BACP10U0187GC, BACP10U0412GC, and BACP10U0562GC, and to add Notes for the Group 12 airplanes, and new Group 13 thru 18 airplanes.

Changes are made to the Parts Modified and Reidentified table to add the P5-2 Fuel Control Module part numbers 233A3202-1, 233A3202-2, 233A3202-3, and 233A3202-4. Changes are made to the Notes (c), (d), and (e) to add the new group 12 thru 18 airplanes, and new Notes (g), (h), (i), and (j) are added for all Group airplanes.

Changes are made to the Parts Removed and Not Replaced table to add the Blank Panel part numbers BACP10U0375GC, BACP10U0600GC, and BACP10U0750GC. Changes are made to the Notes to add the Group 12 airplanes, and new Group 13 thru 18 airplanes.

4. Accomplishment Instructions:

ALERT**ALERT**

Changes are made to the accomplishment instructions for group 1 thru 12 to clarify the instructions for the assembly of the J4 junction box bottom assembly, the J20 junction box plate A and plate B. Changes are also made to add accomplishment instructions for new Group 13 thru 18 airplanes. Changes are made to the operational test to correct circuit breaker C1639 from location D7 to location F7 for the Group 12 airplanes, and to correct the panel location from P61-1 to P6-1 for Group 1 thru 12 airplanes.

5. Figures:

Group identities are removed from all Figure titles.

Changes are made to Figure 1 to add a new Step 1 to disconnect all the connectors from the J4 junction box and all the remaining Steps are re-sequenced. Note (a) is added to clarify the J4 junction box bottom assembly is discarded after all the parts are removed.

Changes are made to Figure 2 and Figure 3 to add Notes to show that the new and kept parts are fitted to the J4 junction box bottom assembly.

Changes are made to Figure 3 to remove the view of the new wire bundle connector.

Changes are made to Figure 4 sheet 1 to show the location of the J4 junction box in the airplane. Sheet 2 is added to Figure 4 to show the location of the connectors in the J4 junction box. Changes are also made to the step table to clarify the new and kept parts.

Changes are made to Figure 5 to add a new Step 1 to disconnect all the connectors from the J4 junction box and all the remaining Steps are re-sequenced. Changes are also made to the step table to clarify the new and kept parts.

Changes are made to the applicability of Figure 6.

Changes are made to Figure 7 to change Connector part number from BACC45FN18-31P6 to BACC45FN18-31P, Pin Contact part number from BACC47CN1A to BACC47CN1SB, I.D. Tape part number 280A3113-10401 to 280A3113-10501, I.D. Tape part number 280A3113-10402 to 280A3113-10502, I.D. Tape part number 280A3113-10403 to 280A3113-10503, Sleeve Splice I.D. part number from 280A3113-10404 to 280A3113-10504, Sleeve Splice I.D. part number from 280A3113-10405 to 280A3113-10505, Filler Rods part number from 280A3113-10406 to 280A3113-10506, and Slice part number from D-436-37 to D436-37. Changes are also made to Figure 7 to clarify the location of Flag Note 12.

Changes are made to Figure 8 to remove the J4 junction box relay installation alternative relay configuration. Changes are also made to clarify the new and kept parts in the step table, a new Step 1 is added to disconnect all the connectors from the J4 junction box and all the remaining steps are re-sequenced.

Changes are made to Figure 10 to change Connector part number from BACC45FN18-31P to BACC45FN18-31P6, Pin Contact part number from BACC47CN1A to BACC47CN1SB, I.D. Tape part number 280A3113-10501 to 280A3113-10401, I.D. Tape part number 280A3113-10502 to 280A3113-10402, I.D. Tape part number 280A3113-10503 to 280A3113-10403, Sleeve Splice I.D. part number from 280A3113-10504 to 280A3113-10404, Sleeve Splice I.D. part number from 280A3113-10505 to 280A3113-10405, Filler Rods part number from 280A3113-10506 to 280A3113-10406, and Slice part number from D-436-37 to D436-37. Changes are also made to Figure 10 to clarify the location of Flag Note 12.

ALERT**ALERT**

Changes are made to Figure 11 to add a new Step 1 to disconnect all the connectors from the J20 junction box and all the remaining Steps are re-sequenced. A new step is added to clarify the J20 junction box is discarded after the J20 junction box plate B is removed. Sheet 3 is added to Figure 11 to clarify the installation of the electrical jumper from the J20 junction box to the structure. Note (b) is added to clarify the J20 junction box plate B is discarded after all the parts are removed.

Changes are made to Figure 12 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate B before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate B.

Changes are made to Figure 13 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate B before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate B. Note (a) is added to clarify the installation of relay R936 for airplanes that have a relay installed in the location shown before this service bulletin is done.

Changes are made to Figure 14 to re-sequence the installation of the J20 junction box in the airplane and the installation of the J20 junction box plate A and plate B in the J20 junction box.

Changes are made to Figure 15 to add a new Sheet 2 to show the removal of the electrical jumper from the J20 junction box plate B, and the removal of the electrical jumper from the structure. Changes are made to the step table to add a new Step 1 to disconnect all the connectors from the J20 junction box and all the remaining Steps are re-sequenced. Note (b) is added to clarify the J20 junction box plate A and plate B are discarded after all the parts are removed.

Changes are made to Figure 16 and Figure 17 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate A before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate A.

Changes are made to Figure 18 and Figure 19 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate B before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate B.

Changes are made to Figure 20 to add a new Sheet 3 to show the installation of the electrical jumper from the new J20 junction box plate A to the structure, and the installation of the electrical jumper from the structure to the new J20 junction box plate B. Changes are also made to re-sequence the installation of the J20 junction box in the airplane and the installation of the J20 junction box plate A and plate B in the J20 junction box.

Changes are made to Figure 21 to add a new Step 1 to disconnect all the connectors from the J20 junction box and all the remaining Steps are re-sequenced. Changes are also made to remove the J20 junction box plate B.

Changes are made to Figure 22 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate B before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate B.

ALERT**ALERT**

Changes are made to Figure 23 to remove the view of the airplane from sheet 1 and to add notes before the step table showing that the parts are installed on the J20 junction box plate B before the plate is installed in the airplane, and the salvaged wire bundle installation is temporarily installed when the kept relays are installed on the J20 junction box plate B. Note (a) is added to clarify the installation of relay R936 for airplanes that have a relay installed in the location shown before this service bulletin is done.

Changes are made to Figure 24 to add a new Sheet 3 to show the installation of the electrical jumper from the new J20 junction box plate A to the structure, and the installation of the electrical jumper from the structure to the new J20 junction box plate B. Changes are also made to re-sequence the installation of the J20 junction box in the airplane and the installation of the J20 junction box plate A and plate B in the J20 junction box.

Changes are made to Figure 26 to change Step 1 Wire identification from BMS 13-60, Type 1, Class 1, AWG 20 to BMS 13-48, Type 10, Class 1, AWG 20. Socket Contact part number BACC47DJ2 quantity is changed from 8 to 9. Changes are also made to change I.D. Tape part number 280A3113-10301 to 280A3113-11301, I.D. Tape part number 280A3113-10302 to 280A3113-11302, I.D. Tape part number 280A3113-10303 to 280A3113-11303, Sleeve Splice I.D. part number from 280A3113-10304 to 280A3113-11304, Sleeve Splice I.D. part number from 280A3113-10305 to 280A3113-11305, and Filler Rods part number from 280A3113-10306 to 280A3113-11306. Changes are also made to add new wire W0072-0081-24 (BMS 13-48, Type 11, Class 1, AWG 24), new Contact Pin part number S280W555-920, and new Lacing Tape part number 280A3113-2001 are added to Steps 13 and 14.

Changes are made to Figure 27 to add new Group 13 thru 18 airplanes.

Changes are made to Figure 30 to add clarification of the P61-8 Fuel Test Panel installation, and to remove the Group 12 airplanes from the effectivity.

Changes are made to Figure 32 Step 5 to change Marker part number from BAC27DCC3399 to BAC27DCC3400, and to Step 6 to change Marker part number from BAC27DCC3400 to BAC27DCC3399.

Changes are made to Figure 33 to add a title to the Figure to clarify the location shown.

Changes are made to Figure 35 to add a title to the Figure to clarify the location shown.

Changes are made to Figure 37 to show the route of wire bundle W0044 to the P6-3 circuit breaker panel.

Changes are made to Figure 38 to change Wire identification from BMS 13-60, Type 1, Class 1, AWG 20 to BMS 13-48, Type 10, Class 1, AWG 20. The name of the Terminal Module is changed to read Contact, Pin. Changes are also made to change I.D. Tape part number 280A3113-10201 to 280A3113-11201, I.D. Tape part number 280A3113-10202 to 280A3113-11202, and Filler Rods part number 280A3113-10203 to 280A3113-11203.

Changes are made to Figure 39 to show the route of wire bundle W0044 to the P6-3 circuit breaker panel. The Figure effectivity is changed to remove the Group 12 airplanes.

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Changes are made to Figure 40 to change Wire identification from BMS 13-60, Type 1, Class 1, AWG 20 to BMS 13-48, Type 10, Class 1, AWG 20. The name of the Terminal Module is changed to read Contact, Pin. Changes are also made to change I.D. Tape part number 280A3113-10201 to 280A3113-11201, I.D. Tape part number 280A3113-10202 to 280A3113-11202, and Filler Rods part number 280A3113-10203 to 280A3113-11203. Socket Contact part number BACC47CP1A is changed to Socket Contact part number BACC47CP1S. The Figure effectivity is changed to remove the Group 12 airplanes.

Changes are made to Figure 41 to correct the route of wire bundle W2112 and to add a title to the Figure to clarify the location shown.

Changes are made to Figure 43 to change Socket Contact part number BACC47CP1A to BACC47CP1S.

Changes are made to Figure 44 to correct the route of wire bundle W2218 and to add a title to the Figure to clarify the location shown.

Changes are made to Figure 45 to change terminal block TB4201Y from terminal POS 19 to terminal POS 29.

Changes are made to Figure 46 to change terminal block TB4201Y from terminal A19 to A29 and to change terminal B19 to B29 and to change Socket Contact part number BACC47CP1A to BACC47CP1S.

Changes are made to Figure 48 to change Socket Contact part number BACC47CP1A to BACC47CP1S.

Changes are made to Figure 50 to change Socket Contact part number BACC47CP1A to BACC47CP1S and to change Pin Contact part number from BACC47CN1A to BACC47CN1SB.

Changes are made to Figure 52 to change Socket Contact part number BACC47CP1A to BACC47CP1S and to change Pin Contact part number from BACC47CN1A to BACC47CN1SB.

Changes are made to Figure 53 to remove the step table.

New Figure 55 - J4 Junction Box Relay Installation, added for new Group 18 airplanes.

New Figure 56 - W0094 Wire Bundle Routing, added for new Group 18 airplanes.

New Figure 57 - Wire Bundle W0094 Wiring Change, added for new Group 18 airplanes.

New Figure 58 - P61-8 Fuel Test Panel Installation, added for new Group 15 and 16 airplanes.

New Figure 59 - P61-8 Fuel Test Panel Installation, added for new Group 17 airplanes.

New Figure 60 - P61-8 Fuel Test Panel Installation, added for Group 12 airplanes, and new Group 13, 14, and 18 airplanes.

New Figure 61 - W0094 Wire Bundle Routing, added for Group 1 - 3 airplanes.

New Figure 62 - Wire Bundle W0044 Wiring Changes, added for Group 12 airplanes.

New Figure 63 - W0044 Wire Bundle Routing, added for new Group 13 - 18 airplanes.

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New Figure 64 - W0044 Wire Bundle Routing, added for Group 12 airplanes.

The data given in Information Notice 737-28A1206 IN 01 and IN 02 is included in this revision.

Revision 2 was sent to include the following changes

This revision is sent to tell Operators that Boeing received a report from one Operator of failure of the Left Hand Fuel Boost Pump of the Center Wing Tank that failed to shut off after being selected "OFF" by the flight crew during flight on a 737-700 airplane. Subsequent to that report, the same failure was found on two additional airplanes. Boeing determined that the failure was caused by a wire that was installed at a wrong location. During the incorporation of the service bulletin these operators terminated wire W0040-6402-14 incorrectly, to a different terminal block, and not to terminal block TB5060F as given in the instructions provided in Figure 33 and Figure 34, or Figure 35 and Figure 36. Wire W0040-6402-14 has to be installed on Terminal Block TB5060F, terminal position 5. This terminal provides 115V AC from Transfer Bus 1, Section 2. If wire is installed incorrectly on terminal TB5060E or any other terminal block, the Auto Shutoff System will not function correctly and the Left Hand Center Tank Boost Pump may continue to operate after being selected off. This could result in a dry running pump. Fuel pumps that run dry and overheat could result in an ignition source in a fuel tank. This miswiring was the reason Airworthiness Directive AD 2008-24-51 was released and mandated by FAA on November 18, 2008.

This revision is sent to tell operators that the AMM 28-22-00 - Center Tank Boost Pump Auto Shutoff Functional Test has been changed to incorporate the requirements of the AD 2008-24-51. The new Center Tank Boost Pump Auto Shutoff Functional Test will detect if the wire W0040-6402-14 is incorrectly installed.

Also this revision is sent to tell operators that the Accomplishment Instructions, paragraph 3.B., Work Instructions has been changed to a new format and grouped in two parts, PART 1 and PART 2. A new part, PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006 or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

These sections were changed:

1. Summary page, Action:

Changes were made to group existing actions in two parts, PART 1 and PART 2. PART 1 and PART 2 are applicable to airplanes that did not accomplish service bulletin. A new PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006, or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

2. Summary page, Compliance:

The compliance recommendation has been reset to 36 months from the date of Revision 2 of the service bulletin. The related NPRM and the related emergency AD have been referenced.

3. Planning information, Effectivity:

ALERT**ALERT**

Airplane groups 1 through 18 had been divided in two configurations, configuration 1 formed by airplanes that did not incorporate the Original Issue or Revision 1 of this service bulletin, and configuration 2 formed by airplanes that incorporated the Original Issue of this service bulletin, or Revision 1 of this service bulletin, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008

4. Planning information, Reason:

A list with all changes has been added to this section.

5. Planning information, Description:

Changes were made to group existing actions in two parts, PART 1 and PART 2. PART 1 and PART 2 are applicable to airplanes that did not accomplish service bulletin original issue or revision 1. A new PART 3 has been added that provide work instructions for Operators that incorporated the original issue of this service bulletin dated January 11, 2006 or revision 1 of this service bulletin dated January 30, 2008 and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

The "No More Work" statement for revision 1, that was missing, has been added.

The "No More Work" and "More Work" statements for revision 2 had been added.

6. Planning Information, Compliance:

The compliance recommendation has been reset to 36 months from the date of Revision 2 of the service bulletin. The related NPRM and the related emergency AD have been referenced.

7. Planning Information, Approval:

An AMOC (Alternative Method of Compliance) statement has been added for the Emergency Airworthiness Directive AD 2008-24-51 dated November 18, 2008.

8. Planning information, Manpower:

A manpower table has been added for configuration 2 airplanes.

9. Material Information:

Kit ROLT, date, and prices are changed.

Changes are made to Kit 233A6253 - P61 Fuel Test Panel Installation to add the new panel part numbers BACP10U0187HC, BACP10U0412HC, and BACP10U0562HC.

Changes are made to the Parts and Materials Supplied by the Operator section to add the new panel part numbers BACP10U0187HC, BACP10U0412HC, and BACP10U0562HC

Changes are made to the Parts Modified and Reidentified table to add the existing J4 Junction Box part number 284A1204-116 and the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

10. Accomplishment Instructions:

ALERT**ALERT**

Existing Work Instructions section has been changed to a new format and grouped in two parts, PART 1 and PART 2. A new part, PART 3 has been added that provides work instructions for Operators that incorporated the Original Issue of this service bulletin dated January 11, 2006, or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008.

11. Figures:

The effectivity of all figures has been updated to include configuration 1.

Figure 8- Changes are made to add an existing J4 Junction Box part number 284A1204-116 that was missing from previous revision, and to add the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

Figure 24, step 11 - Changed the J20 Junction Box part number to correct a typographical error. J20 Junction Box part number was changed from 284A3203-38 to 284A3203-29.

Figure 33 - Changes are made to show the correct the location of Terminal 5 and to add a detail with Terminal Block TB5060F.

Figure 34 - Added note "Phase C" at Terminal 5 of Terminal Block TB5060F.

Figure 35 - Changes are made to show the correct the location of Terminal 5 and to add a detail with Terminal Block TB5060F.

Figure 36 - Added note "Phase C" at Terminal 5 of Terminal Block TB5060F.

Figure 55- Changes are made to add an existing J4 Junction Box part number 284A1204-116 that was missing from previous revision, and to add the new J4 Junction Box part number 284A9200-135 that has to be marked on the re-worked J4 Junction Box 284A1204-116.

Figure 58 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

Figure 59 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

Figure 60 - Added an optional part number panel to P61-8 Fuel Test Panel Installation.

The data given in Information Notice 737-28A1206 IN 03 and IN 04 is included in this revision.

D. Description**PART 1**

1. Get access to the flight compartment. At the P5 overhead panel, replace the P5-2 fuel control module. At the P61 panel, install the P61-8 fuel test panel. At the P6-3 circuit breaker panel, add four circuit breakers and markers. Add five wires to the W0040 wire bundle in the P6 circuit breaker panel. Add eight wires to the W0044 wire bundle. These wires are located between the P6-3 circuit breaker and the P61-8 fuel test panels in the flight compartment and the J4 and J20 boxes in the electrical / electronics compartment.

ALERT**ALERT**

2. Get access to the electrical / electronics compartment. Replace the J20 box. Add two relays and markers at the J20 box. Add ten wires to the W0072 wire bundle in the J20 box. Add two relays and markers at the J4 box. Add ten wires to the W0094 wire bundle in the J4 box. Add five wires to the W0212 wire bundle on the E2-1 electronics shelf in the electrical / electronics compartment. Add two wires to the W2112 wire bundle located between the E2-1 electronics shelf and the P5-2 fuel control panel in the flight compartment. Add three wires to the W0422 wire bundle on the E4-2 electronics shelf in the electrical / electronics compartment. Add one wire to the W2218 wire bundle located between the E4-2 electronics shelf and the P5-2 fuel control panel. Add three wires to the W5158 wire bundle located between the E2-1 electronics shelf and the J20 box. Add three wires to the W5160 wire bundle located between the E4-2 electronics shelf and the J4 box.

PART 2

1. Do the operational tests of the automatic shutoff system for the fuel boost pumps installed in accordance with PART 1.

PART 3

1. Airplanes that accomplished the Original Issue of this service bulletin dated January 11, 2006, or Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008 need to perform the operational test given in Accomplishment Instructions, paragraph 3.B, Work Instructions, PART 3.

Revision 1: No More Work is necessary on airplanes changed as shown in the original issue of this service bulletin

Revision 2:

- More work is necessary on airplanes changed as shown in the Original Issue of this service bulletin dated January 11, 2006, or changed as shown in Revision 1 of this service bulletin dated January 30, 2008, and did not accomplish Emergency AD 2008-24-51 dated November 18, 2008. These airplanes need to do the operational test given in accomplishment instructions paragraph 3.B, Work Instructions, Part 3.
- No more work is necessary on airplanes changed as shown in the Original Issue of this service bulletin dated January 11, 2006 or changed as shown in Revision 1 of this service bulletin dated January 30, 2008 and did accomplish Emergency AD 2008-24-51 dated November 18, 2008.

E. Compliance

Boeing recommends that the change given in this service bulletin be done before 36 months after the date on Revision 2 of this service bulletin.

Federal Aviation Administration (FAA) Notice of Proposed Rule Making NPRM 2007-NM-013-AD, is related to this service bulletin.

Federal Aviation Administration (FAA) Airworthiness Directive 2008-24-51 is related to this service bulletin.

ALERT**ALERT****F. Approval**

This service bulletin was examined by the Federal Aviation Administration (FAA). The changes specified in this service bulletin comply with the applicable Federal Aviation Regulations (14 CFR Part 25) and Joint Aviation Requirements (JAR-25) and are FAA/JAA approved. This service bulletin and FAA/JAA approval were based on the airplane in its original Boeing delivery configuration or as modified by other FAA/JAA approved Boeing changes.

If an airplane has a non-Boeing modification or repair that affects a component or system also affected by this service bulletin, the operator is responsible for obtaining appropriate regulatory agency approval before incorporating this service bulletin.

This service bulletin has been approved by the FAA. In addition, the Manager of the FAA Seattle Aircraft Certification Office has approved the action (i.e. inspection or modification) defined in this service bulletin as an alternative method of compliance to the requirements of paragraph (a) of AD 2001-08-24 and paragraph (b) of AD 2002-24-51 and provides terminating action for the operational restrictions contained therein. All provisions of AD 2001-08-24 and AD 2002-24-51 that are not specifically referenced in the above statement remain fully applicable and must be complied with. Compliance with the conditions of this AMOC approval requires concurrent incorporation of the associated revisions to Airplane Flight Manual Section 1 and 3, and incorporation of the related Airworthiness Limitations (AWL) in Section 9 of the MPD into the operator's maintenance documentation.

The information that follows was given by Information Notice 737-28A1206 IN 01, dated July 27, 2006.

The FAA has informed Boeing that Paragraph 1.F., Approval, which states that "the Manager of the FAA Seattle Aircraft Certification Office has approved the action defined in this service bulletin as an alternative method of compliance to the requirements of paragraph (a) of AD 2001-08-24 and paragraph (b) of AD 2002-24-51" is not complete.

The FAA approval includes a condition as part of the approval of the AMOC. This condition of approval was not listed in Paragraph 1.F of the original issue of this service bulletin and is not part of the existing Airworthiness Directive, AD 2002-24-51.

The condition of approval specified by the FAA addresses mixed fleet operations and requires work to be done on unmodified airplanes in addition to the actions defined in the service bulletin, to achieve the Alternative Method Of Compliance to the requirements of paragraph (b) of AD 2002-24-51.

Additional information and the FAA AMOC Approval Letter 140S-06-6 containing the AMOC approval was sent by Multi Operator Message (MOM) 1-210695451-1. Additional copies of the FAA letter are available on request.

In order to operate a mixed fleet of airplanes, some having automatic shutoff installed and others without automatic shutoff, it will be necessary to install a placard in the flight deck of airplanes that do not have automatic shutoff installed to alert the crew that the procedures required by paragraph (b) of AD 2002-24-51 must be followed on that airplane. The placard should read as follows (alternative placard wording may be used if approved by an appropriate FAA Principal Operations Inspector):

"AD 2002-24-51 fuel usage restrictions required", or for airplanes that currently have a placard required by AD 2002-19-52, that placard can be used to fulfill the above requirement for mixed fleet operation. If an operator would like to use a different method of placarding their airplanes for operation as a mixed fleet, a request for approval of an alternative method of compliance should be submitted to the Seattle Aircraft Certification Office.

ALERT**ALERT**

In addition, the Manager of the FAA Seattle Aircraft Certification Office approves the action (i.e. inspection or modification) defined in this service bulletin as an alternative method of compliance to the requirements of paragraphs (f)(1) through (f)(10) of AD 2008-24-51. All provisions of AD that are not specifically referenced in the above statement remain fully applicable and must be complied with.

For U.S.-registered airplanes, before using this AMOC, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your FSDO.

Additionally for U.S.-registered airplanes, this approval is subject to the following condition: If in the future the [ACO or Directorate] determines that this AMOC does not provide an acceptable level of safety, the [ACO or Directorate] may revoke or revise the terms of the AMOC following notice to the requester and a seven-day opportunity for the requester to comment on the revocation or proposed revision.

G. Manpower

The table below shows an estimate of the task-hours necessary to do this change for each airplane. This estimate is for direct labor only, done by an experienced crew. Adjust the estimate with operator task-hour data if necessary. The estimate does not include lost time. These are some examples of lost time:

- Time to adjust to the workplace
- Time to schedule the work
- Time to examine the work
- Time to cure the materials
- Time to make the parts
- Time to find the tools

Group 1, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 1	2	7.00	3.50
Figure 2	2	5.80	2.90
Figure 3	1	2.50	2.50
Figure 4	2	4.60	2.30
Figure 7	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 1, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 37 (Wire Routing only)	-	-	-
Figure 38	2	11.10	5.55
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 49 (Wire Routing only)	-	-	-
Figure 50	2	5.90	2.95
Figure 53 (Wire Routing only)	-	-	-
Figure 54	1	1.00	0.50
Figure 61 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		114.30	62.50

Group 2, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 1	2	7.00	3.50
Figure 2	2	5.80	2.90
Figure 3	1	2.50	2.50
Figure 4	2	4.60	2.30
Figure 7	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 2, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 28	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 37 (Wire Routing only)	-	-	-
Figure 38	2	11.10	5.55
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 49 (Wire Routing only)	-	-	-
Figure 50	2	5.90	2.95
Figure 53 (Wire Routing only)	-	-	-
Figure 54	1	1.00	1.00
Figure 61 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		114.30	62.50

Group 3, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 1	2	7.00	3.50
Figure 2	2	5.80	2.90
Figure 3	1	2.50	2.50
Figure 4	2	4.60	2.30
Figure 7	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	2	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 3, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 29	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 37 (Wire Routing only)	-	-	-
Figure 38	2	11.10	5.55
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 49 (Wire Routing only)	-	-	-
Figure 50	2	5.90	2.95
Figure 53 (Wire Routing only)	-	-	-
Figure 54	1	1.00	1.00
Figure 61 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		114.30	62.50

Group 4, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 5	1	2.50	2.50
Figure 6 (Wire Routing only)	-	-	-
Figure 7	2	7.60	3.80
Figure 21	2	5.20	2.60
Figure 22	2	4.00	2.00
Figure 23	2	4.20	2.10
Figure 24	2	4.60	2.30

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 4, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 28	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 37 (Wire Routing only)	-	-	-
Figure 38	2	11.10	5.55
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 49 (Wire Routing only)	-	-	-
Figure 50	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		91.50	49.15

Group 5, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 30	1	0.30	0.30

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 5, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 6, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 28	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 6, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 7, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 7, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		104.30	56.75

Group 8, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 28	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00

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Group 8, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		104.30	56.75

Group 9, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 21	2	5.20	2.60
Figure 22	2	4.00	2.00
Figure 23	2	4.20	2.10
Figure 24	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 9, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		99.90	53.40

Group 10, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 21	2	5.20	2.60
Figure 22	2	4.00	2.00
Figure 23	2	4.20	2.10
Figure 24	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 28	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95

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Group 10, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		99.90	53.40

Group 11, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 21	2	5.20	2.60
Figure 22	2	4.00	2.00
Figure 23	2	4.20	2.10
Figure 24	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 29	1	0.50	0.50
Figure 30	1	0.30	0.30
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 39 (Wire Routing only)	-	-	-
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		99.90	53.40

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 12, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 32	2	3.80	1.90
Figure 35 (Wire Routing only)	-	-	-
Figure 36	1	2.60	2.60
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 60	1	0.30	0.30
Figure 62	2	20.00	10.00
Figure 64 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 13, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80

BOEING SERVICE BULLETIN 737-28A1206

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Group 13, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 60	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 14, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 14, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 60	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		104.30	56.75

Group 15, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 15, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 58	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 16, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 15	2	4.00	2.00
Figure 16	2	4.00	2.00
Figure 17	1	2.30	2.30
Figure 18	2	3.40	1.70
Figure 19	2	4.10	2.05
Figure 20	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 16, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 58	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		104.30	56.75

Group 17, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 8	1	2.00	2.00
Figure 9 (Wire Routing only)	-	-	-
Figure 10	2	7.60	3.80
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 17, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 59	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 18, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	2	6.00	3.00
Figure 11	2	4.00	2.00
Figure 12	2	3.40	1.70
Figure 13	2	4.10	2.05
Figure 14	2	4.60	2.30
Figure 25 (Wire Routing only)	-	-	-
Figure 26	2	8.50	4.25
Figure 27	1	0.50	0.50
Figure 31	2	3.80	1.90
Figure 33 (Wire Routing only)	-	-	-
Figure 34	1	2.60	2.60
Figure 40	2	20.00	10.00
Figure 41 (Wire Routing only)	-	-	-
Figure 42 (Wire Routing only)	-	-	-
Figure 43	2	8.00	4.00
Figure 44 (Wire Routing only)	-	-	-
Figure 45 (Wire Routing only)	-	-	-
Figure 46	2	3.30	1.65
Figure 47 (Wire Routing only)	-	-	-
Figure 48	2	5.90	2.95

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**Group 18, Configuration 1:

Task	Number of Persons	Task-Hours	Elapsed Hours
Figure 51 (Wire Routing only)	-	-	-
Figure 52	2	5.90	2.95
Figure 55	1	2.00	2.00
Figure 56 (Wire Routing only)	-	-	-
Figure 57	2	7.60	3.80
Figure 60	1	0.30	0.30
Figure 63 (Wire Routing only)	-	-	-
Close Access	2	6.00	3.00
Test	1	1.50	1.50
TOTAL FOR EACH AIRPLANE		98.00	52.45

Group 1, Configuration 2; Group 2, Configuration 2; Group 3, Configuration 2; Group 4, Configuration 2; Group 5, Configuration 2; Group 6, Configuration 2; Group 7, Configuration 2; Group 8, Configuration 2; Group 9, Configuration 2; Group 10, Configuration 2; Group 11, Configuration 2; Group 12, Configuration 2; Group 13, Configuration 2; Group 14, Configuration 2; Group 15, Configuration 2; Group 16, Configuration 2; Group 17, Configuration 2; Group 18, Configuration 2:

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	1	0.50	0.50
Test	1	1.00	1.00
Close Access	1	0.50	0.50
TOTAL FOR EACH AIRPLANE		2.00	2.00

H. Weight and Balance Changes

Airplane	Change in Weight (Pounds)	Change in Moment (Pound-Inches)
737-600	+3.0	+820
737-700/700C	+3.0	+660
737-800	+3.0	+310
737-900	+3.0	+120

I. Electrical Load Data**1. Direct Current (DC) Loads**

Circuit Breaker	Amperes	Bus
C1637	+0.00	28V DC Bus 1 Section 2 - NO CHANGE ON BUS LOAD TOTAL
C1638	+0.00	28V DC Bus 2 Section 2 - NO CHANGE ON BUS LOAD TOTAL

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2. Alternating Current (AC) Loads

Circuit Breaker	Watts	Volt-Ampere-Reactance (VARs)	Phase	Bus
C1639	+0.005	0.000	C	115V AC Transfer Bus 1 Section 2
C1640	+0.005	0.000	C	115V AC Transfer Bus 2 Section 2

3. Type

Continuous

J. References

1. Existing Data:

- a. Engineering Change Memo PRR 38545-20S
- b. 737-600/700/800/900 Aircraft Maintenance Manual (AMM) 06-41-00/201, 24-22-00/201, 24-22-00/201., 24-31-11/401, 25-31-11, 25-40-11, 28-22-00, 28-22-43/401, 28-22-43/401., 49-11-00
- c. 737 Maintenance Planning Document (MPD) Section 9
- d. 737 Structural Repair Manual (SRM) Subject Chapter 51
- e. 737 Wiring Diagram 24-51-11, 24-51-21, 24-61-22, 24-61-24, 28-23-11, 28-43-11, 31-62-14, 31-62-24
- f. Boeing Component Service Bulletin 233A3202-28-03
- g. Boeing Drawing 65-88700
- h. Boeing Parts Standard Document D-590
- i. FAA Airworthiness Directives 2001-08-24 and 2002-24-51
- j. Service Related Problem (SRP) 737NG-SRP-28-0091
- k. Standard Overhaul Practices Manual (SOPM) 20-50-05, 20-50-10, 20-50-12
- l. Standard Wiring Practices Manual (SWPM) 20-10-11., 20-10-14., 20-10-19., 20-20-00, 20-20-00., 20-30-11., 20-30-12., 20-31-12., 20-60-09., 20-61-11., 20-74-11., 20-81-12, 20-81-12., 20-81-22, 20-81-22., 20-83-11., 20-90-15.

2. Data supplied with this Service Bulletin:

None.

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****3. Installation Drawings Used in the Preparation of this Service Bulletin:**

Drawing Number	Title
288A4101	Wire Bundle Installation, Left and Right Cab and Upper Cab Floor
288A4121	Wire Bundle Installation, Right Cargo Sidewall E/E Bay
288A4131	Wire Bundle Installation, Left E/E Bay Sidewall
288A4154	Wire Bundle Installation, P5 Load Control Circuit Breaker Integration Area
288A4161	Wire Bundle Installation, E1 Electronics Rack

These drawings were used to prepare this service bulletin. These drawings are not necessary to make the specified changes, and are not supplied with this service bulletin. These drawings may not be applicable to all airplane configurations or operators.

K. Publications Affected

Publication	Chapter-Section
737 FAA Approved Airplane Flight Manual	*
737 Flight Crew Operations Manual	12.10, NP. 21, and NNC.12
737 Maintenance Manual	28-22
737 Wiring Diagram Manual	737-600/700/800/900 WDM 28-43
737 Fault Isolation Manual	28-22
737 Illustrated Parts Catalog	24-50, 28-22, 31-11
737 Dispatch Deviation Guide	28
737 Minimum Equipment List	28
Maintenance Planning Data Document	Section 9
* This change affects Sections 1 and 3 of the FAA Approved Airplane Flight Manual. Operators will receive applicable data.	

L. Interchangeability and Intermixability of Parts

Refer to Paragraph 2.C., Parts Necessary For Each Airplane, for interchangeability and intermixability information.

BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT****2. MATERIAL INFORMATION****A. Material - Price and Availability**

Boeing can supply the kits/parts shown in Paragraph 2.C., Parts Necessary For Each Airplane as shown below. If there is a limit to the quantity (QTY) of available kits/parts, a supply sequence is given by Spares. More kits/parts become available as shown in the Reorder Lead Time (ROLT). ROLT is calculated from the date Boeing gets the purchase order.

Kit Number	Name	Date	QTY	ROLT (Weeks)	Unit Price thru DEC 31, 2009
012A0046-1	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$30,197.00
012A0046-2	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$30,197.00
012A0046-3	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	50	\$30,197.00
012A0046-4	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	50	\$22,994.00
012A0046-5	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$23,213.00
012A0046-6	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$23,213.00
012A0046-7	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$24,659.00
012A0046-8	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$24,659.00
012A0046-9	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$22,994.00
012A0046-10	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$22,994.00
012A0046-11	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$22,994.00
012A0046-12	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	50	\$23,259.00
012A0046-13	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$23,260.00
012A0046-14	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$23,288.00
012A0046-15	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$24,705.00
012A0046-16	Top Kit, Center Fuel Tank Boost Pump Auto Shutoff	-	-	51	\$24,734.00

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The kits/parts are subject to the terms and conditions of the Boeing standard purchase order acknowledgment. After the Unit Price date, new price and ROLT data is applicable. Prices are in United States dollars. Terms: Net 30 days.

Reference this service bulletin and submit your purchase order by one of the methods that follow:

1. Order on-line via ATA Spec 2000 or Boeing Part Page
2. Fax to (206) 662-7145
3. Spares Customer Support - MC 36-65
Boeing Spares Department
P.O. Box 3707
Seattle, Washington 98124-2207 USA

B. Industry Support Information

Boeing warranty remedies are not available for the configuration changes given in this service bulletin.

C. Parts Necessary For Each Airplane

1. Kits/Parts:

To get the kits/parts shown below, refer to Paragraph 2.A., Material - Price and Availability.

NOTE: One top kit and the items shown in Paragraph 2.C.2., Parts and Materials Supplied by the Operator, are necessary for each airplane.

Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY						Notes
	-6	-5	-4	-3	-2	-1	
012A0046-1	.	.	.	.	.	-	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (a)
012A0046-2	.	.	.	.	-	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (b)
012A0046-3	.	.	.	-	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (c)
012A0046-4	.	.	-	.	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (d)
012A0046-5	.	-	.	.	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (e)
012A0046-6	-	.	.	.	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF (f)
233A5001-32	1	1	1	1	1	1	TOP-KIT - C/B INSTL
233A6251-11	.	1	.	.	.	1	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT (g)
233A6251-12	1	.	1	.	1	.	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT (g)
233A6251-13	.	.	.	1	.	.	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT (g)
233A6253-1	1	1	1	1	1	1	FUEL TEST PANEL, P61 - SUB KIT

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Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY						Notes
	-6	-5	-4	-3	-2	-1	
280A3113-1	1	1	.	.	.	.	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
280A3113-2	.	.	1	.	.	.	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
280A3113-3	.	.	.	1	1	1	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-46	.	.	.	1	1	1	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-47	.	.	1	.	.	.	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-48	1	1	.	.	.	.	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-49	1	1	.	.	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-50	.	.	.	1	1	1	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
284A9200-51	.	.	1	.	.	.	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
(a) Group 1 Airplanes.							
(b) Group 2 Airplanes.							
(c) Group 3 Airplanes.							
(d) Group 4 Airplanes.							
(e) Group 5 Airplanes.							
(f) Group 6 Airplanes.							
(g) This kit contains no parts. The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03.							

Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY						Notes
	-12	-11	-10	-9	-8	-7	
012A0046-7	.	.	.	.	.	-	(a) TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
012A0046-8	.	.	.	.	-	.	(b) TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
012A0046-9	.	.	.	-	.	.	(c) TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
012A0046-10	.	.	-	.	.	.	(d) TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF
012A0046-11	.	-	.	.	.	.	(e) TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

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Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

New Part Number	QTY						Name	Notes
	-12	-11	-10	-9	-8	-7		
012A0046-12	-	.	.	.	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	(g)
233A5001-32	1	1	1	1	1	1	TOP-KIT - C/B INSTL	
233A6251-11	1	.	.	1	.	1	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT	(f)
233A6251-12	.	.	1	.	1	.	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT	(f)
233A6251-13	.	1	.	.	.	.	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT	(f)
233A6253-1	.	1	1	1	1	1	FUEL TEST PANEL, P61 - SUB KIT	
233A6253-2	1	.	.	.	.	.	FUEL TEST PANEL, P61 - SUB KIT	
280A3113-1	1	1	1	1	1	1	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-48	1	1	1	1	1	1	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-49	1	.	.	.	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-50	.	.	.	.	1	1	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-51	.	1	1	1	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	

(a) Group 7 Airplanes.

(b) Group 8 Airplanes.

(c) Group 9 Airplanes.

(d) Group 10 Airplanes.

(e) Group 11 Airplanes.

(f) This kit contains no parts. The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03.

(g) Group 15 Airplanes.

Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

New Part Number	QTY				Name	Notes
	-16	-15	-14	-13		
012A0046-13	.	.	.	-	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	(a)
012A0046-14	.	.	-	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	(b)
012A0046-15	.	-	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	(c)
012A0046-16	-	.	.	.	TOP KIT - SFAR88, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	(d)
233A5001-32	1	1	1	1	TOP-KIT - C/B INSTL	
233A6251-11	1	1	1	1	FUEL CONTROL PANEL INSTL, P005-2 - SUBKIT	(e)

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Kit 012A0046 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

New Part Number	QTY				Name	Notes
	-16	-15	-14	-13		
233A6253-2	.	1	.	.	FUEL TEST PANEL, P61 - SUB KIT	
233A6253-3	.	.	.	1	FUEL TEST PANEL, P61 - SUB KIT	
233A6253-4	1	.	1	.	FUEL TEST PANEL, P61 - SUB KIT	
280A3113-1	1	1	1	1	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-48	1	1	1	1	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-49	.	.	1	1	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-50	1	1	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	

(a) Group 17 Airplanes.

(b) Group 12, 13 and 18 Airplanes.

(c) Group 16 Airplanes.

(d) Group 14 Airplanes.

(e) This kit contains no parts. The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03.

Kit 233A5001 - CIRCUIT BREAKER INSTALLATION

New Part Number	QTY	Name	Notes
	-32		
233A5001-32	-	TOP-KIT - C/B INSTL	
BAC27DCC3397	1	DECAL	
BAC27DCC3398	1	DECAL	
BAC27DCC3399	1	DECAL	
BAC27DCC3400	1	DECAL	
BACC18AD2	4	CIRCUIT BREAKER	
BACT19J4	5	TAPE, ID	

Kit 233A6253 - P61 TEST PANEL INSTALLATION

New Part Number	QTY				Name	Notes
	-4	-3	-2	-1		
233A6253-1	.	.	.	-	FUEL TEST PANEL, P61 - SUB KIT	(a)
233A6253-2	.	.	-	.	FUEL TEST PANEL, P61 - SUB KIT	
233A6253-3	.	-	.	.	FUEL TEST PANEL, P61 - SUB KIT	
233A6253-4	-	.	.	.	FUEL TEST PANEL, P61 - SUB KIT	
233A7206-1	1	1	1	1	PANEL ASSY - FUEL TEST, P61-08	
BAC27DCC2769	3	3	3	3	PLACARD	

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Kit 233A6253 - P61 TEST PANEL INSTALLATION

New Part Number	QTY				Name	Notes
	-4	-3	-2	-1		
BACP10U0187GC	.	.	1	.	PANEL	(b)(e)
BACP10U0412GC	.	1	.	.	PANEL	(c)(f)
BACP10U0562GC	1	.	.	.	PANEL	(d)(g)

(a) For airplanes in Group 12, and new Group 13 thru 18 airplanes that have kit 233A6253-1 and have not done the service bulletin at the original issue, it will be necessary for the operator to supply panel part number BACP10U0187GC, or BACP10U0412GC, or BACP10U0562GC for the applicable new airplane group.

(b) Group 15 and 16 airplanes.

(c) Group 17 airplanes.

(d) Group 12, 13, 14, and 18 airplanes.

(e) Panel part number BACP10U0187GC can replace or be replaced by BACP10U0187HC.

(f) Panel part number BACP10U0412GC can replace or be replaced by BACP10U0412HC.

(g) Panel part number BACP10U0562GC can replace or be replaced by BACP10U0562HC.

Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

New Part Number	QTY			Name	Existing Part Number	Notes
	-3	-2	-1			
280A3113-1	.	.	-	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF		
280A3113-2	.	-	.	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF		
280A3113-3	-	.	.	WIRE KIT - SFAR88-CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF		
280A3113-101	1	1	1	ASSY - W0040		
280A3113-104	.	.	1	ASSY - W0094		
280A3113-105	1	1	.	ASSY - W0094		
280A3113-106	1	1	1	ASSY - W0212/W2112		
280A3113-107	1	1	1	ASSY - W0422/W2218		
280A3113-108	1	1	1	ASSY - W5158		
280A3113-109	.	.	1	ASSY - W5160		
280A3113-110	1	1	.	ASSY - W5160		
280A3113-111	1	.	.	ASSY - AJ0004		
280A3113-112	1	1	1	ASSY - W0044		
280A3113-113	1	1	1	ASSY - W0072		
280A3113-2001	1	1	1	LACING TAPE		(a)

(a) BMS 13-54, Type 3, Class 1, length 500 yards

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF								
New Part Number	QTY						Name	Notes
	-108	-107	-106	-105	-104	-101		
280A3113-101	.	.	.	.	.	-	ASSY - W0040	
280A3113-104	.	.	.	.	-	.	ASSY - W0094	
280A3113-105	.	.	.	-	.	.	ASSY - W0094	
280A3113-106	.	.	-	.	.	.	ASSY - W0212/W2112	
280A3113-107	.	-	.	.	.	.	ASSY - W0422/W2218	
280A3113-108	-	.	.	.	.	.	ASSY - W5158	
280A3113-101W	.	.	.	.	.	1	WIRE LIST	
	.	.	.	.	.	1	Wire, W0040-6399-16, 48 inches	(a) (n)
	.	.	.	.	.	1	Wire, W0040-6400-14, 48 inches	(b) (n)
	.	.	.	.	.	1	Wire, W0040-6401-14, 48 inches	(b) (n)
	.	.	.	.	.	1	Wire, W0040-6402-14, 96 inches	(c) (n)
	.	.	.	.	.	1	Wire, W0040-6404-14, 48 inches	(b) (n)
280A3113-104W	.	.	.	.	1	.	WIRE LIST	
	.	.	.	.	1	.	Wire, W0094-0501-20, 48 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0502-20, 48 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0503-20, 48 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0504-20, 36 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0505-20, 36 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0506-20, 36 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0507-20, 36 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0508-20, 48 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0509-20, 48 inches	(f) (n)
	.	.	.	.	1	.	Wire, W0094-0510-20, 48 inches	(f) (n)
280A3113-105W	.	.	.	1	.	.	WIRE LIST	
	.	.	.	1	.	.	Wire, W0094-0501-20, 48 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0502-20, 48 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0503-20, 48 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0504-20, 36 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0505-20, 36 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0506-20, 36 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0507-20, 36 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0508-20, 48 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0509-20, 48 inches	(f) (n)
	.	.	.	1	.	.	Wire, W0094-0510-20, 48 inches	(f) (n)
280A3113-106W	.	.	1	.	.	.	WIRE LIST	

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF

New Part Number	QTY						Name	Notes
	-108	-107	-106	-105	-104	-101		
	.	.	1	.	.	.	Wire, W0212-0206-20, 36 inches	(f) (n)
	.	.	1	.	.	.	Wire, W0212-0208-22, 54 inches	(m) (n)
	.	.	1	.	.	.	Wire, W0212-0209-22, 42 inches	(m) (n)
	.	.	1	.	.	.	Wire, W0212-0210-22, 36 inches	(m) (n)
	.	.	1	.	.	.	Wire, W0212-6039-20, 384 inches	(e) (n)
	.	.	1	.	.	.	Wire, W0212-6053-20, 72 inches	(e) (n)
280A3113-107W	.	1	.	.	.	.	WIRE LIST	
	.	1	.	.	.	.	Wire, W0422-0239-20, 36 inches	(f) (n)
	.	1	.	.	.	.	Wire, W0422-0241-22, 60 inches	(m) (n)
	.	1	.	.	.	.	Wire, W0422-0243-22, 60 inches	(m) (n)
	.	1	.	.	.	.	Wire, W2218-6005-20, 408 inches	(e) (n)
280A3113-108W	1	.	.	.	.	.	WIRE LIST	
	1	.	.	.	.	.	Wire, W5158-0104-20, 564 inches	(f) (n)
	1	.	.	.	.	.	Wire, W5158-0105-20, 564 inches	(f) (n)
	1	.	.	.	.	.	Wire, W5158-0106-20, 564 inches	(f) (n)
280A3113-10101	.	.	.	.	.	1	SLEEVE - PHASE C	(d)
280A3113-10401	.	.	.	.	1	.	ID TAPE - CONNECTOR	(h)
280A3113-10402	.	.	.	.	1	.	ID TAPE - CONNECTOR	(i)
280A3113-10403	.	.	.	.	1	.	ID TAPE - CONNECTOR	(j)
280A3113-10404	.	.	.	.	1	.	SLEEVE - SPLICE ID	(k)
280A3113-10405	.	.	.	.	1	.	SLEEVE - SPLICE ID	(l)
280A3113-10406	.	.	.	.	28	.	FILLER RODS - CONNECTOR	(g)
280A3113-10501	.	.	.	1	.	.	ID TAPE - CONNECTOR	(h)
280A3113-10502	.	.	.	1	.	.	ID TAPE - CONNECTOR	(i)
280A3113-10503	.	.	.	1	.	.	ID TAPE - CONNECTOR	(j)
280A3113-10504	.	.	.	1	.	.	SLEEVE - SPLICE ID	(k)
280A3113-10505	.	.	.	1	.	.	SLEEVE - SPLICE ID	(l)
280A3113-10506	.	.	.	28	.	.	FILLER RODS - CONNECTOR	(g)
280A3113-10801	1	.	.	.	.	.	ID TAPE - CONNECTOR	(o)
280A3113-10802	28	.	.	.	.	.	FILLER RODS - CONNECTOR	(g)
BACC10GH18	1	.	.	.	.	.	BACKSHELL CLAMP	
BACC45FN18-31P	.	.	.	1	.	.	CONNECTOR, ELECTRICAL, RECEPTACLE, FLANGE MOUNT, BAYONET COUPLING	
BACC45FN18-31P6	.	.	.	.	1	.	CONNECTOR, ELECTRICAL, RECEPTACLE, FLANGE MOUNT, BAYONET COUPLING	

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF								
New Part Number	QTY						Name	Notes
	-108	-107	-106	-105	-104	-101		
BACC45FT18-31S	1	.	.	.	.	.	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC47CN1SB	.	.	.	8	8	.	CONTACT, PIN	
BACC47CP1S	4	5	3	.	.	.	CONTACT	
BACC47DJ2	.	.	.	10	10	.	CONTACT, SOCKET	
BACS16W10A	.	.	.	1	1	.	RELAY SOCKET	
BACS16X6A	.	.	.	1	1	.	RELAY SOCKET	
BACT12AC56	.	.	.	.	.	2	TERMINAL, LUG	
BACT12AC8	.	.	.	.	.	1	TERMINAL, LUG	
BACT12AR142	.	.	.	.	.	4	TERMINAL	
BACT12AR162	.	.	.	.	.	2	TERMINAL	
CTA-0165	.	2	5	.	.	.	CONTACT, SOCKET, SIZE 20	
CTA-0166	4	4	5	.	.	.	CONTACT, PIN, SIZE 20	
D436-37	.	.	.	2	2	.	SPLICE	
M39029-1-102	.	.	2	.	.	.	CONTACT, PIN	
S280W555-753	.	1	1	.	.	.	TERMINAL MODULE	
S280W555-920	.	4	4	.	.	.	CONTACT, PIN, SIZE 20	
(a) BMS 13-58, Type 1, Class 1, AWG 16								
(b) BMS 13-60, Type 7, Class 1, AWG 14								
(c) BMS 13-58, Type 1, Class 1, AWG 14								
(d) Shrink Sleeve, RT876, 3/8 inch diameter, length 2 inches								
(e) BMS 13-58, Type 1, Class 1, AWG 20								
(f) BMS 13-60, Type 1, Class 1, AWG 20								
(g) L-P-410, Teflon Filler Rod, Outer Diameter 0.063, Length 0.63 Inches.								
(h) Identification Tape, BACT19C-T, Imprinted "D13798 M/W R935 RLY R AUTO SHUTOFF TD"								
(i) Identification Tape, BACT19C-T, Imprinted "D137800 M/W R937 RLY R AUTO SHUTOFF 115VAC"								
(j) Identification Tape, BACT19C-T, Imprinted "D40658J M/W AJ0004 POS 09"								
(k) TMSSCE14-2-4 Splice Identification Sleeve, Imprinted "SM501"								
(l) TMSSCE14-2-4 Splice Identification Sleeve, Imprinted "SM502"								
(m) BMS 13-58, Type 1, Class 1, AWG 22								
(n) Refer to the Standard Wiring Practices Manual 20-00-13 for optional wire.								
(o) Identification Tape, BACT19C-T, Imprinted "D40858P M/W AJ0020D POS 01"								

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY					Name	Notes
	-113	-112	-111	-110	-109		
280A3113-109	.	.	.	.	-	ASSY - W5160	
280A3113-110	.	.	.	-	.	ASSY - W5160	
280A3113-111	.	.	-	.	.	ASSY - AJ0004	
280A3113-112	.	-	.	.	.	ASSY - W0044	
280A3113-113	-	.	.	.	.	ASSY - W0072	
280A3113-109W	.	.	.	.	1	WIRE LIST	
	.	.	.	.	1	Wire, W5160-0110-20, 324 inches	(a) (s)
	.	.	.	.	1	Wire, W5160-0111-20, 324 inches	(a) (s)
	.	.	.	.	1	Wire, W5160-0112-20, 324 inches	(a) (s)
280A3113-110W	.	.	.	1	.	WIRE LIST	
	.	.	.	1	.	Wire, W5160-0110-20, 324 inches	(a) (s)
	.	.	.	1	.	Wire, W5160-0111-20, 324 inches	(a) (s)
	.	.	.	1	.	Wire, W5160-0112-20, 324 inches	(a) (s)
280A3113-112W	.	1	.	.	.	WIRE LIST	
	.	1	.	.	.	Wire, W0044-0934-20, 336 inches	(c) (s)
	.	1	.	.	.	Wire, W0044-0935-20, 336 inches	(c) (s)
	.	1	.	.	.	Wire, W0044-0936-20, 336 inches	(c) (s)
	.	1	.	.	.	Wire, W0044-0937-20, 96 inches	(c) (s)
	.	1	.	.	.	Wire, W0044-0938-20, 264 inches	(ab) (s)
	.	1	.	.	.	Wire, W0044-0939-20, 276 inches	(ab) (s)
	.	1	.	.	.	Wire, W0044-0940-20, 276 inches	(ab) (s)
	.	1	.	.	.	Wire, W0044-0941-20, 96 inches	(ab) (s)
280A3113-113W	1	.	.	.	.	WIRE LIST	
	1	.	.	.	.	Wire, W0072-0081-24, 30 inches	(b) (s)
	1	.	.	.	.	Wire, W0072-0601-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0602-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0603-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0604-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0605-20, 36 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0606-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0607-20, 36 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0608-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0609-20, 48 inches	(ab) (s)
	1	.	.	.	.	Wire, W0072-0610-20, 36 inches	(ab) (s)
280A3113-10901	.	.	.	.	1	ID TAPE - CONNECTOR	(e)
280A3113-10903	.	.	.	.	28	FILLER ROD - CONNECTOR	(d)
280A3113-11001	.	.	.	1	.	ID TAPE - CONNECTOR	(f)

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY					Name	Notes
	-113	-112	-111	-110	-109		
280A3113-11003	.	.	.	28	.	FILLER ROD - CONNECTOR	(d)
280A3113-11101	.	.	1	.	.	ID TAPE - CONNECTOR	(g)
280A3113-11102	.	.	1	.	.	ID TAPE - CONNECTOR	(h)
280A3113-11103	.	.	1	.	.	ID TAPE - CONNECTOR	(i)
280A3113-11104	.	.	1	.	.	ID TAPE - CONNECTOR	(j)
280A3113-11105	.	.	1	.	.	ID TAPE - CONNECTOR	(k)
280A3113-11106	.	.	1	.	.	ID TAPE - CONNECTOR	(l)
280A3113-11107	.	.	1	.	.	ID TAPE - CONNECTOR	(m)
280A3113-11108	.	.	1	.	.	ID TAPE - CONNECTOR	(n)
280A3113-11109	.	.	1	.	.	WIRE (UNCODED)	(o) (s)
280A3113-11110	.	.	1	.	.	WIRE (UNCODED)	(p) (s)
280A3113-11111	.	.	1	.	.	WIRE (UNCODED)	(c) (s)
280A3113-11112	.	.	1	.	.	WIRE (UNCODED)	(q) (s)
280A3113-11113	.	.	1	.	.	WIRE (UNCODED)	(c) (s)
280A3113-11114	.	.	1	.	.	WIRE (UNCODED)	(r) (s)
280A3113-11115	.	.	1	.	.	ID TAPE - CONNECTOR	(t)
280A3113-11201	.	1	.	.	.	ID TAPE - CONNECTOR	(u)
280A3113-11202	.	1	.	.	.	ID TAPE - CONNECTOR	(v)
280A3113-11203	.	30	.	.	.	FILLER ROD - CONNECTOR	(d)
280A3113-11301	1	.	.	.	.	ID TAPE - CONNECTOR	(w)
280A3113-11302	1	.	.	.	.	ID TAPE - CONNECTOR	(x)
280A3113-11303	1	.	.	.	.	ID TAPE - CONNECTOR	(y)
280A3113-11304	1	.	.	.	.	SLEEVE - SPLICE ID	(z)
280A3113-11305	1	.	.	.	.	SLEEVE - SPLICE ID	(aa)
280A3113-11306	28	.	.	.	.	FILLER RODS - CONNECTOR	(d)
BACC10GH18	.	.	.	1	1	BACKSHELL CLAMP	
BACC45FN18-31P	1	.	.	.	.	CONNECTOR, ELECTRICAL, RECEPTACLE, FLANGE MOUNT, BAYONET COUPLING	
BACC45FT14-15S	.	1	.	.	.	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC45FT14-15S6	.	1	.	.	.	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC45FT18-31S	.	.	.	1	.	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC45FT18-31S6	.	.	.	.	1	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC47CN1SB	8	.	35	4	4	CONTACT, PIN	
BACC47CN2A	.	.	11	.	.	PIN CONTACT	

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF							
New Part Number	QTY					Name	Notes
	-113	-112	-111	-110	-109		
BACC47CP1S	.	12	.	4	4	CONTACT	
BACC47DJ2	11	.	.	.	.	CONTACT, SOCKET	
BACS16W10A	1	.	.	.	.	RELAY SOCKET	
BACS16X6A	1	.	.	.	.	RELAY SOCKET	
BACT12AR203	.	5	.	.	.	TERMINAL	
D436-36	.	.	40	.	.	SPLICE	
D436-37	2	.	5	.	.	SPLICE	
S280W555-920	2	3	.	.	.	CONTACT, PIN, SIZE 20	
(a) BMS 13-60, Type 1, Class 1, AWG 20							
(b) BMS 13-48, Type 11, Class 1, AWG 24							
(c) BMS 13-58, Type 1, Class 1, AWG 20							
(d) L-P-410, Teflon Filler Rod, Outer Diameter 0.063, Length 0.63 Inches.							
(e) Identification Tape, BACT19C-T, Imprinted "D40658P M/W AJ0004 POS 09"							
(f) Identification Tape, BACT19C-T, Imprinted "D40658P M/W AJ0004 POS 06"							
(g) Identification Tape, BACT19C-T, Imprinted "D40886P M/W AJ0004 POS 07"							
(h) Identification Tape, BACT19C-T, Imprinted "D40886J M/W AJ0004 POS 07"							
(i) Identification Tape, BACT19C-T, Imprinted "D40616P M/W AJ0004 POS 08"							
(j) Identification Tape, BACT19C-T, Imprinted "D40616J M/W AJ0004 POS 08"							
(k) Identification Tape, BACT19C-T, Imprinted "D40614P M/W AJ0004 POS 09"							
(l) Identification Tape, BACT19C-T, Imprinted "D40614J M/W AJ0004 POS 09"							
(m) Identification Tape, BACT19C-T, Imprinted "D40610P M/W AJ0004 POS 10"							
(n) Identification Tape, BACT19C-T, Imprinted "D40610J M/W AJ0004 POS 10"							
(o) BMS 13-60, Type 1, Class 1, AWG 16							
(p) BMS 13-58, Type 1, Class 1, AWG 16							
(q) BMS 13-60, Type 1, Class 1, AWG 22							
(r) BMS 13-60, Type 44, Class 1, AWG 22							
(s) Refer to the Standard Wiring Practices Manual 20-00-13 for optional wire.							
(t) Identification Tape, BACT19C-T, Imprinted "D42138J M/W AJ0004 POS 03"							
(u) Identification Tape, BACT19C-T, Imprinted "D13790 M/W P61-08 S1 TEST SW - LEFT"							
(v) Identification Tape, BACT19C-T, Imprinted "D13792 M/W P61-08 S2 TEST SW - RIGHT"							
(w) Identification Tape, BACT19C-T, Imprinted "D13794 M/W R934 RLY L AUTO SHUTOFF TD"							
(x) Identification Tape, BACT19C-T, Imprinted "D13796 M/W R936 RLY L AUTO SHUTOFF 115VAC"							
(y) Identification Tape, BACT19C-T, Imprinted "D40858J M/W AJ0020D POS 01"							
(z) TMSSCE14-2-4 Splice Identification Sleeve, Imprinted "SM601"							
(aa) TMSSCE14-2-4 Splice Identification Sleeve, Imprinted "SM602"							
(ab) BMS 13-48, Type 10, Class 1, AWG 20							

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Wire Kit 280A3113 - CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF				
New Part Number	QTY		Name	Notes
	-103	-102		
280A3113-102	.	-	ASSY - W0044	(a)
280A3113-103	-	.	ASSY - W0072	(b)
280A3113-102W	.	1	WIRE LIST	
280A3113-103W	1	.	WIRE LIST	
280A3113-10201	.	1	ID TAPE - CONNECTOR	
280A3113-10202	.	1	ID TAPE - CONNECTOR	
280A3113-10203	.	30	FILLER RODS - CONNECTOR	
280A3113-10301	1	.	ID TAPE - CONNECTOR	
280A3113-10302	1	.	ID TAPE - CONNECTOR	
280A3113-10303	1	.	ID TAPE - CONNECTOR	
280A3113-10304	1	.	SLEEVE - SPLICE ID	
280A3113-10305	1	.	SLEEVE - SPLICE ID	
280A3113-10306	28	.	FILLER RODS - CONNECTOR	
BACC45FN18-31P	1	.	CONNECTOR, ELECTRICAL, RECEPTACLE, FLANGE MOUNT, BAYONET COUPLING	
BACC45FT14-15S	.	1	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC45FT14-15S6	.	1	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING	
BACC47CN1SB	8	.	CONTACT, PIN	
BACC47CP1S	.	12	CONTACT	
BACC47DJ2	10	.	CONTACT, SOCKET	
BACS16W10A	1	.	RELAY SOCKET	
BACS16X6A	1	.	RELAY SOCKET	
BACT12AR203	.	5	TERMINAL	
D436-37	2	.	SPLICE	
S280W555-920	.	3	CONTACT, PIN, SIZE 20	
(a) Wire Kit 280A3113-102 is replaced by Wire kit 280A3113-112.				
(b) Wire Kit 280A3113-103 is replaced by Wire kit 280A3113-113.				

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Kit 284A9200 - J4 AND J20 RELAY BOX INSTALLATION								
New Part Number	QTY						Name	Notes
	-51	-50	-49	-48	-47	-46		
284A9200-46	.	.	.	.	.	-	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-47	.	.	.	.	-	.	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-48	.	.	.	-	.	.	KIT - J4 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-49	.	.	-	.	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-50	.	-	.	.	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A9200-51	-	.	.	.	.	.	KIT - J20 BOX RELAY INSTALLATION, CENTER FUEL TANK BOOST PUMP AUTO SHUTOFF	
284A2203-10	.	.	1	.	.	.	BOX ASSY	
284A2203-11	1	1	.	.	.	.	BOX ASSY - KIT	
284A3203-38	.	1	.	.	.	.	BRACKET ASSY - KIT	
284A3204-19	.	.	.	.	.	1	BOX ASSY-BOTTOM	
287T0011-1	3	3	3	.	.	4	CLAMP OLYMPIC	
287T0011-2	3	3	3	.	.	4	CLAMP	
287T0011-3	3	3	3	.	.	4	CLAMP	
BAC27DEX5728	1	1	1	.	.	.	J20 BOX	
BAC27DEX5844	.	.	.	.	.	1	VINYL DECAL - R444	
BAC27DEX6929	1	2	2	.	.	1	VINYL DECAL, A	
BAC27DEX6930	1	2	2	.	.	1	VINYL DECAL, B	
BAC27DEX6931	1	2	2	.	.	1	VINYL DECAL, C	
BAC27DEX6947	.	1	1	.	.	.	VINYL DECAL, AJ20A	
BAC27DEX6949	.	.	.	.	.	1	VINYL DECAL - R57	
BAC27DEX6950	.	.	.	.	.	1	VINYL DECAL - R58	
BAC27DEX6960	1	1	1	.	.	.	VINYL DECAL - R729	
BAC27DEX6961	.	1	.	.	.	.	VINYL DECAL - R790	
BAC27DEX6962	.	1	.	.	.	.	VINYL DECAL - R791	
BAC27DEX6963	.	1	.	.	.	.	VINYL DECAL - R792	
BAC27DEX6964	.	1	.	.	.	.	VINYL DECAL - R793	
BAC27DEX6965	.	1	.	.	.	.	VINYL DECAL - R794	
BAC27DEX6966	.	1	.	.	.	.	VINYL DECAL - R795	
BAC27DEX6967	.	1	.	.	.	.	VINYL DECAL - R819	
BAC27DEX6968	.	1	.	.	.	.	VINYL DECAL - R862	

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Kit 284A9200 - J4 AND J20 RELAY BOX INSTALLATION								
New Part Number	QTY						Name	Notes
	-51	-50	-49	-48	-47	-46		
BAC27DEX6969	.	1	.	.	.	.	VINYL DECAL - R863	
BAC27DEX6970	.	1	.	.	.	.	VINYL DECAL - R864	
BAC27DEX6971	.	1	.	.	.	.	VINYL DECAL - R875	
BAC27DEX6972	.	1	.	.	.	.	VINYL DECAL - R876	
BAC27DEX6973	.	1	.	.	.	.	VINYL DECAL - R877	
BAC27DEX6976	1	1	.	.	.	.	VINYL DECAL - R907	
BAC27DEX6977	1	1	1	.	.	.	VINYL DECAL - AJ20B	
BAC27DEX7066	.	.	.	.	.	1	VINYL DECAL - GB401	
BAC27DEX7067	.	.	.	.	.	1	VINYL DECAL - TB401	
BAC27DEX7068	.	.	.	.	.	1	VINYL DECAL - GB402	
BAC27DEX7069	.	.	.	.	.	1	VINYL DECAL - TB402	
BAC27DEX7070	.	.	.	.	.	1	VINYL DECAL - GD436	
BAC27DEX7071	.	.	.	.	.	1	VINYL DECAL - GD438	
BAC27DEX7072	.	.	.	.	.	1	VINYL DECAL - GD512	
BAC27DEX7073	.	.	.	.	.	1	VINYL DECAL - GD514	
BAC27DEX7074	.	.	.	.	.	1	VINYL DECAL - M110	
BAC27DEX7075	.	.	.	.	.	1	VINYL DECAL - R805	
BAC27DEX7076	.	.	.	.	.	1	VINYL DECAL - R806	
BAC27DEX7077	.	.	.	.	.	1	VINYL DECAL - R807	
BAC27DEX7078	.	.	.	.	.	1	VINYL DECAL - R810	
BAC27DEX7079	.	.	.	.	.	1	VINYL DECAL - R848	
BAC27DEX7080	.	.	.	.	.	1	VINYL DECAL - R852	
BAC27DEX7081	.	.	.	.	.	1	VINYL DECAL - R853	
BAC27DEX7082	.	.	.	.	.	1	VINYL DECAL - R856	
BAC27DEX7083	.	.	.	.	.	1	VINYL DECAL - R869	
BAC27DEX7084	.	.	.	.	.	1	VINYL DECAL - R870	
BAC27DEX7085	.	.	.	.	.	1	VINYL DECAL - R874	
BAC27DEX7086	.	.	.	.	.	1	VINYL DECAL - R881	
BAC27DEX7087	1	1	1	.	.	.	VINYL DECAL - R934	
BAC27DEX7088	.	.	.	1	1	1	VINYL DECAL - R935	
BAC27DEX7089	1	1	1	.	.	.	VINYL DECAL - R936	
BAC27DEX7090	.	.	.	1	1	1	VINYL DECAL - R937	
BAC27DEX7091	.	.	.	.	.	1	VINYL DECAL - T3012	
BAC27DEX7092	.	.	.	.	.	1	VINYL DECAL - T3013	
BAC27DEX7093	.	.	.	.	.	1	VINYL DECAL - T3014	
BAC27DEX7094	.	.	.	.	.	1	VINYL DECAL - T3015	
BAC27DEX7095	1	1	2	.	.	.	VINYL DECAL - D	

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Kit 284A9200 - J4 AND J20 RELAY BOX INSTALLATION

New Part Number	QTY						Name	Notes
	-51	-50	-49	-48	-47	-46		
BAC27DEX7096	1	1	1	.	.	.	VINYL DECAL - FARSIDE	
BAC27DEX7102	.	1	1	.	.	.	VINYL DECAL - AJ20C	
BAC27DEX7103	1	1	1	.	.	.	VINYL DECAL - AJ20D	
BAC27DEX7104	1	1	1	.	.	.	VINYL DECAL - M2033	
BAC27DEX7105	1	1	1	.	.	.	VINYL DECAL - R361	
BAC27DEX7106	1	.	1	.	.	.	VINYL DECAL - R551	
BAC27DEX7107	1	1	1	.	.	.	VINYL DECAL - R567	
BAC27DEX7108	1	1	1	.	.	.	VINYL DECAL - R588	
BAC27DEX7109	1	1	1	.	.	.	VINYL DECAL - R590	
BAC27DEX7110	1	1	1	.	.	.	VINYL DECAL - R591	
BAC27DEX7111	1	1	1	.	.	.	VINYL DECAL - R595	
BAC27DEX7112	1	1	1	.	.	.	VINYL DECAL - R596	
BAC27DEX7113	1	1	1	.	.	.	VINYL DECAL - R645	
BAC27DEX7114	1	1	1	.	.	.	VINYL DECAL - R682	
BAC27DEX7115	1	1	1	.	.	.	VINYL DECAL - R708	
BAC27DEX7116	1	1	1	.	.	.	VINYL DECAL - R710	
BAC27DEX7117	1	1	1	.	.	.	VINYL DECAL - R711	
BAC27DEX7118	1	1	1	.	.	.	VINYL DECAL - R712	
BAC27DEX7119	1	1	1	.	.	.	VINYL DECAL - R713	
BAC27DEX7120	1	1	1	.	.	.	VINYL DECAL - R714	
BAC27DEX7121	1	1	1	.	.	.	VINYL DECAL - R735	
BAC27DEX7122	1	.	.	.	.	.	VINYL DECAL - R756	
BAC27NEX0173	.	1	1	.	.	.	VINYL DECAL - A	
BAC27NEX0174	1	1	1	.	.	.	VINYL DECAL	
BAC27NEX0704	2	4	4	.	.	1	MARKER - POS 1	
BAC27NEX0705	2	4	4	.	.	1	MARKER - POS 2	
BAC27NEX0706	2	4	4	.	.	1	MARKER - POS 3	
BAC27NEX0707	1	2	2	.	.	1	MARKER - POS 4	
BAC27NEX0708	1	2	1	.	.	1	MARKER - POS 5	
BAC27NEX0709	1	1	1	.	.	1	MARKER - POS 6	
BAC27NEX0710	1	1	1	.	.	1	VINYL DECAL	
BAC27NEX0711	.	.	.	.	.	1	VINYL DECAL (POS 8)	
BAC27NEX0712	.	.	.	.	.	1	VINYL DECAL	
BAC27NEX0713	.	.	.	.	.	1	VINYL DECAL (POS 10)	
BAC27NEX0714	.	.	.	.	.	1	VINYL DECAL	
BAC27NEX0715	.	.	.	.	.	1	VINYL DECAL (POS 12)	
BAC27NEX0938	1	2	2	.	.	1	VINYL DECAL	

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Kit 284A9200 - J4 AND J20 RELAY BOX INSTALLATION								
New Part Number	QTY						Name	Notes
	-51	-50	-49	-48	-47	-46		
BAC27TEX1597	.	.	.	.	.	1	VINYL DECAL - R64	
BACB30NM3K2	6	6	.	.	.	.	BOLT, HEX HEAD	
BACB30NM3K5	2	2	.	.	.	.	BOLT	
BACN10YR04CD	30	50	32	4	4	36	NUT	
BACN10YR3CD	2	2	2	1	1	3	NUT	
BACR11AW4A	.	.	.	.	.	2	RECEPTACLE	
BACR13CJ2	1	1	1	1	1	1	RELAY	
BACR15BB3AD3C	.	.	.	.	.	8	RIVET	
BACS12HN04-5	30	50	32	4	4	4	BOLT	
BACS12HN3-10	3	5	3	.	.	1	BOLT	
BACS38K5	3	3	3	6	7	7	STRAP	
NAS1149D0316H	2	2	2	1	1	1	WASHER	
NAS1149D0332H	2	2	.	.	.	.	WASHER, PLAIN	
NAS1149D0332J	6	6	.	.	.	.	WASHER	
NAS1149DN332J	30	50	32	4	4	4	WASHER, PLAIN	
NAS42DD6-12FC	2	2	.	.	.	.	SPACERS FOR RIVETS	
TDH-8116-1502	1	1	1	1	1	1	TIME DELAY RELAY	

2. Parts and Materials Supplied by the Operator:

Part Number / Specification	QTY	Name	Notes
BACP10U0187GC or BACP10U0187HC	1	PANEL	(a)(d)
BACP10U0412GC or BACP10U0412HC	1	PANEL	(b)(e)
BACP10U0562GC or BACP10U0562HC	1	PANEL	(c)(f)
(a) For airplanes in Group 15 and 16 that have kit 233A6253-1 and have not done the service bulletin at the original issue or revision 1, it will be necessary for the operator to supply the panel part number applicable to the airplane: BACP10U0187GC or BACP10U0187HC. NOTE: Panel part number BACP10U0187GC can replace or be replaced by BACP10U0187HC.			

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Part Number / Specification	QTY	Name	Notes
(b) For airplanes in Group 17 that have kit 233A6253-1 and have not done the service bulletin at the original issue or revision 1, it will be necessary for the operator to supply the panel part number applicable to the airplane: BACP10U0412GC or BACP10U0412HC, BACP10U0562GC or BACP10U0562HC. NOTE: Panel part number BACP10U0412GC can replace or be replaced by BACP10U0412HC.			
(c) For airplanes in Group 12, Group 13, Group 14, and Group 18 airplanes that have kit 233A6253-1 and have not done the service bulletin at the original issue or revision 1, it will be necessary for the operator to supply the panel part number applicable to the airplane: BACP10U0562GC or BACP10U0562HC. NOTE: Panel part number BACP10U0562GC can replace or be replaced by BACP10U0562HC.			
(d) Group 15 and 16 airplanes.			
(e) Group 17 airplanes.			
(f) Group 12, 13, 14, and 18 airplanes.			

3. Parts Modified and Reidentified:

The parts shown below are changed as shown in this service bulletin. The quantity (QTY) is the number of parts changed on each airplane.

Existing Part Number	QTY	Name	New Part Number	Notes
233A3202-1	1	P5-2 Fuel Control Module	233A3202-6	(a) (g)
233A3202-2	1	P5-2 Fuel Control Module	233A3202-7	(a) (h)
233A3202-3	1	P5-2 Fuel Control Module	233A3202-5	(a) (i)
233A3202-4	1	P5-2 Fuel Control Module	233A3202-5	(a) (j)
284A2204-7	1	J4 Junction Box	284A2204-9	(a) (b)
284A1204-1	1	J4 Junction Box	284A9200-56	(a) (c)
284A1204-2	1	J4 Junction Box	284A9200-57	(a) (c)
284A1204-4	1	J4 Junction Box	284A9200-58	(a) (c)
284A1204-104	1	J4 Junction Box	284A9200-58	(a) (c)
284A1204-5	1	J4 Junction Box	284A9200-59	(a) (c)
284A1204-105	1	J4 Junction Box	284A9200-59	(a) (c)
284A1204-6	1	J4 Junction Box	284A9200-60	(a) (c)
284A1204-106	1	J4 Junction Box	284A9200-60	(a) (c)
284A1204-7	1	J4 Junction Box	284A9200-61	(a) (c)
284A1204-107	1	J4 Junction Box	284A9200-61	(a) (c)
284A1204-110	1	J4 Junction Box	284A9200-62	(a) (c)
284A1204-111	1	J4 Junction Box	284A9200-63	(a) (c)
284A1204-112	1	J4 Junction Box	284A9200-64	(a) (c)
284A1204-114	1	J4 Junction Box	284A9200-65	(a) (c)
284A1204-115	1	J4 Junction Box	284A9200-66	(a) (c)
284A1204-116	1	J4 Junction Box	284A9200-135	(a) (c)

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Existing Part Number	QTY	Name	New Part Number	Notes
284A1204-201 REV A	1	J20 Junction Box	284A1204-201 REV B	(a) (c)
284A1203-11	1	J20 Junction Box	284A9200-52	(a) (d)
284A1203-101	1	J20 Junction Box	284A9200-52	(a) (d)
284A1203-12	1	J20 Junction Box	284A9200-53	(a) (d)
284A1203-102	1	J20 Junction Box	284A9200-53	(a) (d)
284A1203-13	1	J20 Junction Box	284A9200-54	(a) (d)
284A1203-103	1	J20 Junction Box	284A9200-54	(a) (d)
284A1203-110	1	J20 Junction Box	284A9200-55	(a) (d)
284A1203-104	1	J20 Junction Box	284A9200-67	(a) (e)
284A1203-107	1	J20 Junction Box	284A9200-67	(a) (e)
284A1203-117	1	J20 Junction Box	284A9200-67	(a) (e)
284A1203-106	1	J20 Junction Box	284A9200-68	(a) (e)
284A1203-109	1	J20 Junction Box	284A9200-68	(a) (e)
284A1203-116	1	J20 Junction Box	284A9200-68	(a) (e)
284A1203-105	1	J20 Junction Box	284A9200-69	(a) (e)
284A1203-112	1	J20 Junction Box	284A9200-69	(a) (e)
284A1203-119	1	J20 Junction Box	284A9200-69	(a) (e)
284A1203-113	1	J20 Junction Box	284A9200-70	(a) (e)
284A1203-120	1	J20 Junction Box	284A9200-70	(a) (e)
284A1203-114	1	J20 Junction Box	284A9200-71	(a) (e)
284A1203-131	1	J20 Junction Box	284A9200-72	(a) (e)
284A1203-115	1	J20 Junction Box	284A9200-73	(a) (e)
284A1203-118	1	J20 Junction Box	284A9200-74	(a) (e)
284A1203-123	1	J20 Junction Box	284A9200-75	(a) (f)
284A1203-124	1	J20 Junction Box	284A9200-76	(a) (f)
284A1203-125	1	J20 Junction Box	284A9200-77	(a) (f)
284A1203-126	1	J20 Junction Box	284A9200-78	(a) (f)
284A1203-127	1	J20 Junction Box	284A9200-79	(a) (f)
284A1203-128	1	J20 Junction Box	284A9200-80	(a) (f)
284A1203-129	1	J20 Junction Box	284A9200-81	(a) (f)
284A1203-130	1	J20 Junction Box	284A9200-82	(a) (f)
284A1203-132	1	J20 Junction Box	284A9200-83	(a) (f)
284A1203-133	1	J20 Junction Box	284A9200-84	(a) (f)
284A1203-134	1	J20 Junction Box	284A9200-85	(a) (f)
284A1203-135	1	J20 Junction Box	284A9200-86	(a) (f)
284A1203-136	1	J20 Junction Box	284A9200-87	(a) (f)
284A1203-137	1	J20 Junction Box	284A9200-88	(a) (f)
284A1203-138	1	J20 Junction Box	284A9200-89	(a) (f)
284A1203-139	1	J20 Junction Box	284A9200-90	(a) (f)

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Existing Part Number	QTY	Name	New Part Number	Notes
284A1203-201A	1	J20 Junction Box	284A1203-201B	(a) (f)
(a) Make the change given in this service bulletin.				
(b) Group 1, 2, 3 airplanes.				
(c) Group 5 - 18 airplanes.				
(d) Group 5, 6, 12 -13, 15, 17 - 18 airplanes.				
(e) Group 1, 2, 3, 7, 8, 14, and 16 airplanes.				
(f) Group 4, 9, 10, and 11 airplanes.				
(g) Group 1, 5, 7, 9, 12 - 18 airplanes.				
(h) Group 2, 4, 6, 8, and 10 airplanes.				
(i) Group 3 and 11 airplanes.				
(j) Alternative installation all group airplanes.				

4. Parts Removed and Not Replaced:

Existing Part Number	Name	QTY	Notes
BACP10U0187GC	Blank Panel	1	Group 1 -11 airplanes.
BACP10U0375GC	Blank Panel	1	Group 15 and 16 airplanes.
BACP10U0600GC	Blank Panel	1	Group 17 airplanes.
BACP10U0750GC	Blank Panel	1	Group 12, 13, 14, and 18 airplanes.
BACP20B63B	Plug Button	4	(a)
284A3204-11	J4 Relay Plate	1	Group 1, 2, 3 airplanes.
284A2203-5	J20 Box Assembly	1	Group 5, 6, 13, 15, 17, and 18 airplanes.
284A2203-6	J20 Box Assembly	1	Group 1, 2, 3, 7, 8, 14, and 16 airplanes.
284A2203-7	J20 Box Assembly	1	Group 1, 2, 3, 7, 8, 14, and 16 airplanes.
284A2203-8	J20 Box Assembly	1	Group 1, 2, 3, 7, 8, 14, and 16 airplanes.
(a) Keep the part if there are other uses for it.			

D. Parts Necessary to Change Spares

None.

E. Special Tooling - Price and Availability

None.

F. Special Tooling Necessary to do this Service Bulletin

No special tools or equipment are necessary to do the change in this service bulletin. But, maintenance and overhaul tools in the manuals given in Paragraph 1.J., References, can be necessary. Examine operator tool supply to make sure all necessary tools are available.

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3. ACCOMPLISHMENT INSTRUCTIONS**A. GENERAL INFORMATION**

CAUTION: KEEP THE WORK AREA, WIRES AND ELECTRICAL BUNDLES CLEAN OF METAL PARTICLES OR CONTAMINATION WHEN YOU USE TOOLS. UNWANTED MATERIAL, METAL PARTICLES OR CONTAMINATION CAUGHT IN WIRE BUNDLES CAN CAUSE DAMAGE TO THE BUNDLES. DAMAGED WIRE BUNDLES CAN CAUSE SPARKS OR OTHER ELECTRICAL DAMAGE.

NOTE:

1. Manual titles are referred to by acronyms. Refer to Paragraph 1.J., References, for definition of the acronyms.
2. Obey all of the warnings and cautions given in the specified manual sections.
3. Unless shown differently, these dimensions and tolerances are used:
 - Linear dimensions are in inches
 - Tolerance on linear dimensions, other than rivet and bolt edge margins, is plus or minus 0.03 inch.
 - Tolerance on rivet and bolt edge margin is plus or minus 0.05 inch
 - Hole dimensions for standard solid rivets are given in 737 Structural Repair Manual, Chapter 51
 - Torque limits to tighten nuts and bolts are given in 737 Structural Repair Manual, Chapter 51.
4. For approved fastener and process material substitutions, refer to 737 Structural Repair Manual, Chapter 51, Alternate fasteners are given in 737 Structural Repair Manual Chapter 51 and Boeing Drawing 65-88700.
5. Refer to the Boeing Standard Wiring Practices Manuals SWPM 20-10-11 and SWPM 20-10-122 for the wire installation procedures.
6. If the length of any fastener specified in this service bulletin does not meet the installation standards given in SRM Chapter 51, then a fastener of the same specification, or an approved substitute, with a length which meets the installation standards given in SRM Chapter 51 may be used.
7. These work instructions refer to procedures included on other Boeing documents. When the words "refer to" are used and the operator has an accepted alternative procedure, the accepted alternative procedure can be used. When the words "as given in" are included in the instruction, the procedure in the Boeing document must be used.

ALERT**ALERT****B. WORK INSTRUCTIONS**

Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

PART 1- WIRES AND EQUIPMENT CHANGE FOR THE AUTOSHUTOFF SYSTEM

1. Remove electrical power from the airplane. Put a DO-NOT-CLOSE tag on each opened circuit breaker. Refer to 737-600/700/800/900 AMM 24-22-00/201., as an accepted procedure.
2. Disconnect the battery connectors from the batteries. Refer to 737-600/700/800/900 AMM 24-31-11/401, as an accepted procedure.
3. Remove access panels 113BW, 114AW, and 114BW in the nose landing gear wheel well area to get access to the J4 and J20 junction boxes and related wiring. Refer to 737-600/700/800/900 AMM 06-41-00/201, as an accepted procedure.
4. Remove Lavatory A from the airplane if is installed. Refer to 737-600/700/800/900 AMM 25-40-11 as an accepted procedure.
5. Remove Galley G1 from the airplane if is installed. Refer to AMM 737-600/700/800/900 AMM 25-31-11 as an accepted procedure.
6. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1: Remove and salvage components from the J4 junction box as given in Figure 1. Remove the J4 junction box bottom assembly from the airplane to complete the work.
7. Change the W0094 wire bundle, located in the J4 junction box and change connectors position as applicable. Remove the J4 junction box bottom assembly from the airplane to complete the work:
 - a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1: in accordance with Figure 7, Figure 53, Figure 54, and Figure 61. Change the connector termination positions of the W5160, W5520, and W6222 wire bundles at the J4 junction box as given in Figure 53 and Figure 54.
 - b. Group 4, Configuration 1: in accordance with Figure 6 and Figure 7.
 - c. Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1: in accordance with Figure 9 and Figure 10.
 - d. Group 18, Configuration 1: in accordance with Figure 56 and Figure 57.
8. Install relays and markers, and receptacles (as applicable) in the J4 junction box bottom assembly. Install the J4 junction box bottom assembly, transformers (as applicable), and markers in the J4 junction box into the airplane:

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- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1: in accordance with Figure 2, Figure 3, and Figure 4.
 - b. Group 4, Configuration 1: in accordance with Figure 5.
 - c. Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1: in accordance with Figure 8.
 - d. Group 18, Configuration 1: in accordance with Figure 55.
9. Remove the J20 junction box from the airplane. Remove and salvage components from the J20 junction box:
- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: in accordance with Figure 15.
 - b. Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 21.
 - c. Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 11.
10. Change the W0072 wire bundle, located in the J20 junction box, as given in Figure 25 and Figure 26.
11. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: Install components on the upper portion of the J20 junction box plate A as given in Figure 16.
12. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: Install components on the lower portion of the J20 junction box plate A as given in Figure 17.
13. Install components on the upper portion of the J20 junction box plate B:
- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: in accordance with Figure 18.
 - b. Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 22.
 - c. Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 12.
14. Install components on the lower portion of the J20 junction box plate B:

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- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: in accordance with Figure 19.
- b. Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 23.
- c. Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 13.

15. Install the J20 junction box, J20 junction box plate A and plate B:

- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1: in accordance with Figure 20.
- b. Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 24.
- c. Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 14.

16. Replace the P5-2 fuel control module:

- a. Group 1, Configuration 1; Group 5, Configuration 1; Group 7, Configuration 1; Group 9, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 27.
- b. Group 2, Configuration 1; Group 4, Configuration 1; Group 6, Configuration 1; Group 8, Configuration 1; Group 10, Configuration 1: in accordance with Figure 28.
- c. Group 3, Configuration 1; Group 11, Configuration 1: in accordance with Figure 29.

17. Install the P61-8 fuel test panel:

- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 30.
- b. Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 18, Configuration 1: in accordance with Figure 60.
- c. Group 15, Configuration 1; Group 16, Configuration 1: in accordance with Figure 58.
- d. Group 17, Configuration 1: in accordance with Figure 59.

18. Install circuit breakers and markers in the P6-3 circuit breaker panel:

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- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 31.
- b. Group 12, Configuration 1: in accordance with Figure 32.

19. Change the W0040 wire bundle:

NOTE: Make sure that wire W0040-6402-14 is terminated to Terminal Block TB5060F, Terminal 5. Terminal 5 is the fifth terminal from the bottom of the terminal block. Terminal Block TB5060F is oriented vertically and is identified with a label that is installed on the panel above the terminal block. This terminal provides 115V AC from Transfer Bus 1, Section 2, Phase C. If wire is installed incorrectly, the Auto Shutoff system will not function correctly, and the left center tank boost pump may continue to operate after being selected OFF. This could result in a dry running pump.

- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 33 and Figure 34.
- b. Group 12, Configuration 1: in accordance with Figure 35 and Figure 36.

20. Change the W0044 wire bundle:

- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1: in accordance with Figure 37 and Figure 38.
- b. Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1: in accordance with Figure 39 and Figure 40.
- c. Group 12, Configuration 1: in accordance with Figure 64 and Figure 62.
- d. Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 63 and Figure 40.

21. Change the W0212 and W2112 wire bundles as given in Figure 41, Figure 42, and Figure 43.

22. Change the W2218 and W0422 wire bundles as given in Figure 44, Figure 45, and Figure 46.

23. Change the W5158 wire bundle as given in Figure 47 and Figure 48.

24. Change the W5160 wire bundle:

- a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1: in accordance with Figure 49 and Figure 50.

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- b. Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1: in accordance with Figure 51 and Figure 52.

- 25. Install Lavatory A on the airplane if it is removed. Refer to 737-600/700/800/900 AMM 25-40-11.
- 26. Install Galley G1 on the airplane if it is removed. Refer to 737-600/700/800/900 AMM 25-31-11.
- 27. Install access panels removed in the nose landing gear wheel well area. Refer to 737-600/700/800/900 AMM 06-41-00/201, as an accepted procedure.
- 28. Connect the battery connectors to the batteries. Refer to 737-600/700/800/900 AMM 24-31-11/401, as an accepted procedure.
- 29. Remove the DO-NOT-CLOSE tags. Put back electrical power to the airplane. Refer to 737-600/700/800/900 AMM 24-22-00/201, as an accepted procedure.
- 30. Do the operational tests in accordance with PART 2.

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Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

PART 2 - OPERATIONAL TESTS FOR THE AUTO SHUTOFF SYSTEM INSTALLED IN PART 1

1. Do tests of all disturbed systems to make sure that the connectors are connected correctly after the wire bundle changes.
2. Do the operational test for the P5-2 fuel system module. Refer to 737-600/700/800/900 AMM 28-22-43/401, as an accepted procedure.
3. Make sure the circuit breakers that follow are CLOSED:
 - a. Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

Location (Panel/Grid)	Name	Circuit Breaker
P6-3/C7	BST PUMP CTR TANK R AUTO SHUT OFF-DC	C1638
P6-3/E7	BST PUMP CTR TANK R AUTO SHUT OFF-AC	C1640
P6-3/C3	BST PUMP CTR TANK L AUTO SHUT OFF-DC	C1637
P6-3/D7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639

- b. Group 12, Configuration 1:

Location (Panel/Grid)	Name	Circuit Breaker
P6-3/C7	BST PUMP CTR TANK R AUTO SHUT OFF-DC	C1638
P6-3/E7	BST PUMP CTR TANK R AUTO SHUT OFF-AC	C1640
P6-3/C3	BST PUMP CTR TANK L AUTO SHUT OFF-DC	C1637
P6-3/F7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639

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4. Make sure the refuel panel door is closed when the tests are done.
5. Do the "Center Tank Boost Pump Auto Shutoff - Functional Test" in accordance with "737-600/700/800/900 AMM 28-22-00.
6. The following fuel configuration dry test makes sure the connections from the left and right pump switches (S8 and S9) center tank on the P5-2 panel to the DEU1 (M1808) and the DEU 2 (M1809) for the fuel CONFIG indication on the CDS display are correctly installed. This is a ground test that does not require the engines to run. This test may be run independent of the auto shut off tests and master caution tests.
 - a. Open the AC pump circuit breakers shown below to disable the center tank fuel pumps:

Location (Panel/Grid)	Name	Circuit Breaker
P91/D6	BOOST PUMP CTR TANK LEFT	C845
P92/D6	BOOST PUMP CTR TANK RIGHT	C846

- b. The DEU HOLDUP power is required before the DEU primary power is applied. Make sure the circuit breakers that follow are CLOSED in the order shown:

Location (Panel/Grid)	Name	Circuit Breaker
P6-1/D9	DEU 2 HOLDUP	C1362
P6-1/D10	DEU 1 HOLDUP	C1361
P6-1/D11	DEU 2 PRI	C1360
P6-1/E10	F/O OUTBD	C1364
P6-1/E11	F/O INBD	C1366
P6-1/E12	CTR LWR	C1373
P6-1/E13	F/O EFIS CONT PANEL	C1370
P18-2/D1	CAPT EFIS CONT PANEL	C1369
P18-2/D2	CTR UPR	C1372
P18-2/D3	CAPT INBD	C1365
P18-2/D4	CAPT OUTBD	C1363
P18-2/D5	DEU 1 PRI	C1359
P18-2/A6	CMPTR 1	C1017
P18-2/A7	CDU 1	C1018

- c. Set the S8 and S9 center tank left and right pump switches on the P5-2 panel to OFF.
 - d. Press the INIT REF key on the FMC CDU 1.
 - e. Press LSK (Line Select Key) 6L (INDEX) on the FMC CDU 1.
 - f. Press LSK 6R (MAINT) on the CDU.
 - g. Press LSK 5L (CDS) on the CDU with the MAINT BITE INDEX display.

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- h. Press LSK 1L (DEU1) on the CDU with the CDS BITE INDEX display.
- i. Press LSK 5L (INPUT MONITORING) on the CDU with the CDS DEU 1 MAINT/BITE main menu display.
- j. Press LSK 1R (INSERT D) on the CDU with the CDS DEU 1 MAINT/BITE discrete status menu display.
- k. With INSERT D selected, locate A8 in the matrix on the CDS DEU 1 MAINT/BITE discrete status display. Make sure there is a ground at A8 which indicates the pump switch is OFF.
- l. Toggle the pump switch on the P5-2 panel for the right center tank to ON and make sure A8 changes its state to open which indicates the pump is on.
- m. Toggle the pump switch on the P5-2 panel for the right center tank to OFF and make sure A8 changes its state to a ground.
- n. Press LSK 6L (INDEX) on the CDU with the CDS DEU 1 MAINT/BITE discrete status display.
- o. Press LSK 1L (INSERT A) on the CDU with the CDS DEU 1 MAINT/BITE discrete status menu display.
- p. With INSERT A selected, locate A8 on the CDS DEU 1 MAINT/BITE discrete status menu display. Make sure there is a ground at A8 which indicates the pump switch is OFF.
- q. Toggle the pump switch on the P5-2 panel for the left center tank to ON and make sure A8 changes its state to open which indicates the pump is on.
- r. Toggle the pump switch on the P5-2 panel for the left center tank to OFF and make sure A8 changes its state to a ground.
- s. Press LSK 6L (INDEX) on the CDU with the CDS DEU 1 MAINT/BITE discrete status menu display.
- t. Press LSK 6L (INDEX) on the CDU with the CDS DEU 1 MAINT/BITE main menu display. The MAINT BITE INDEX should be displayed.
- u. Press LSK 1L (DEU2) on the CDU with the CDS BITE INDEX display.
- v. Press LSK 5L (INPUT MONITORING) on the CDU with the CDS DEU 2 MAINT/BITE discrete status menu display.
- w. Press LSK 1R (INSERT D) on the CDU with the CDS DEU 2 MAINT/BITE discrete status menu display.
- x. With INSERT D selected, locate A8 in the matrix on the CDS DEU 2 MAINT/BITE discrete status display. Make sure there is a ground at A8 which indicates the pump switch is off.
- y. Toggle the pump switch on the P5-2 panel for the right center tank to ON and make sure A8 changes its state to open which indicates the pump switch is on.

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- z. Toggle the pump switch on the P5-2 panel for the right center tank to OFF and make sure A8 changes its state to a ground.
- aa. Press LSK 6L (INDEX) on the CDU with the CDS DEU 2 MAINT/BITE discrete status display.
- ab. Press LSK 1L (INSERT A) on the CDU with the CDS DEU 2 MAINT/BITE discrete status display.
- ac. With INSERT A selected, locate A8 on the CDS DEU 2 MAINT/BITE discrete status display
- ad. Toggle the pump switch on the P5-2 panel for the left center tank to ON and make sure A8 changes its state from a ground (which indicates the pump switch is off) to open (which indicates the pump switch is on).
- ae. Toggle the pump switch on the P5-2 panel for the left center tank to OFF and make sure A8 changes its state.
- af. Close the circuit breakers that follow:

Location (Panel/Grid)	Name	Circuit Breaker
P91/D6	BOOST PUMP CTR TANK LEFT	C845
P92/D6	BOOST PUMP CTR TANK RIGHT	C846

- 7. Put the airplane back to a serviceable condition.

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Group 1, Configuration 2; Group 2, Configuration 2; Group 3, Configuration 2; Group 4, Configuration 2; Group 5, Configuration 2; Group 6, Configuration 2; Group 7, Configuration 2; Group 8, Configuration 2; Group 9, Configuration 2; Group 10, Configuration 2; Group 11, Configuration 2; Group 12, Configuration 2; Group 13, Configuration 2; Group 14, Configuration 2; Group 15, Configuration 2; Group 16, Configuration 2; Group 17, Configuration 2; Group 18, Configuration 2:

PART 3 - OPERATIONAL TEST FOR AIRPLANES THAT ACCOMPLISHED INITIAL REVISION OR REVISION 1 OF THIS SERVICE BULLETIN AND DID NOT ACCOMPLISH AIRWORTHINESS DIRECTIVE (AD) 2008-24-51

1. Remove the electrical power from the airplane.
2. Open the circuit breakers that follow install collars and "DO-NOT-CLOSE" tags on the circuit breakers:
 - a. Group 1, Configuration 2; Group 2, Configuration 2; Group 3, Configuration 2; Group 4, Configuration 2; Group 5, Configuration 2; Group 6, Configuration 2; Group 7, Configuration 2; Group 8, Configuration 2; Group 9, Configuration 2; Group 10, Configuration 2; Group 11, Configuration 2; Group 13, Configuration 2; Group 14, Configuration 2; Group 15, Configuration 2; Group 16, Configuration 2; Group 17, Configuration 2; Group 18, Configuration 2:

Location (Panel/Grid)	Name	Circuit Breaker
P91	XFR BUS 1 SECT2	C3002
P92	XFR BUS 2 SECT2	C3012
P6-3/D7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639 (a)
(a) If SB 737-28A1248 - Center Fuel Tank, Fuel pumps - Power Failed on Protection System (Un-Commanded Pump ON) is incorporated CB C1639 was re-labeled as C1659.		

- b. Group 12, Configuration 2:

Location (Panel/Grid)	Name	Circuit Breaker
P91	XFR BUS 1 SECT2	C3002
P92	XFR BUS 2 SECT2	C3012
P6-3/F7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639 (a)
(a) If SB 737-28A1248 - Center Fuel Tank, Fuel pumps - Power Failed on Protection System (Un-Commanded Pump ON) is incorporated CB C1639 was re-labeled as C1659.		

3. Verify continuity between TB5060F in Terminal 5 and the bus side terminal of CB 1639 in the P6-3 circuit breaker panel.

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4. Check that wire number W0040-6402 is installed in terminal 5 of TB5060F.
 - a. If, there is no continuity, or if, during the check the wire is found not installed in TB5060F terminal 5 do the following:
 - (1) Before further flight, trace wire W0040-6402-14 from CB C1639 and re-terminate the other end of the wire to TB5060F terminal 5.
5. Remove the collars and the "DO-NOT-CLOSE" tags and close the following circuit breakers:
 - a. Group 1, Configuration 2; Group 2, Configuration 2; Group 3, Configuration 2; Group 4, Configuration 2; Group 5, Configuration 2; Group 6, Configuration 2; Group 7, Configuration 2; Group 8, Configuration 2; Group 9, Configuration 2; Group 10, Configuration 2; Group 11, Configuration 2; Group 13, Configuration 2; Group 14, Configuration 2; Group 15, Configuration 2; Group 16, Configuration 2; Group 17, Configuration 2; Group 18, Configuration 2:

Location (Panel/Grid)	Name	Circuit Breaker
P91	XFR BUS 1 SECT2	C3002
P92	XFR BUS 2 SECT2	C3012
P6-3/D7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639 (a)
(a) If SB 737-28A1248 - Center Fuel Tank, Fuel pumps - Power Failed on Protection System (Un-Commanded Pump ON) is incorporated CB C1639 was re-labeled as C1659.		

- b. Group 12, Configuration 2:

Location (Panel/Grid)	Name	Circuit Breaker
P91	XFR BUS 1 SECT2	C3002
P92	XFR BUS 2 SECT2	C3012
P6-3/F7	BST PUMP CTR TANK L AUTO SHUT OFF-AC	C1639 (a)
(a) If SB 737-28A1248 - Center Fuel Tank, Fuel pumps - Power Failed on Protection System (Un-Commanded Pump ON) is incorporated CB C1639 was re-labeled as C1659.		

6. Prepare and start the APU to be used for AC transfer bus power. Refer to 737-600/700/800/900 AMM 49-11-00 as an accepted procedure.
7. Verify the voltage at CB C1639 is 115 volts alternating current +/- 5 Volts.
 - a. If the voltage is not within the limits specified above repeat the actions required by step instructions 1 through 7.

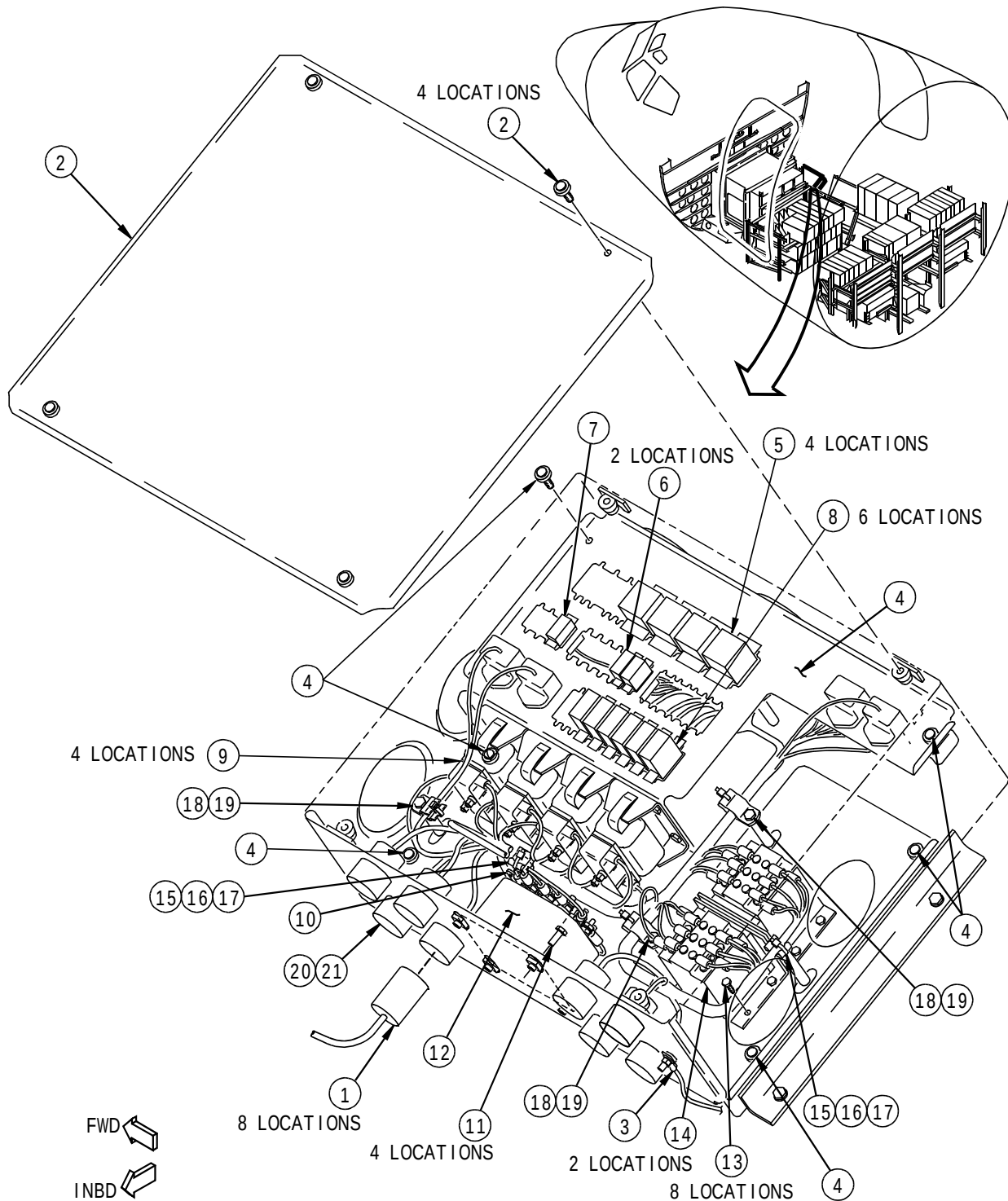
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8. On P5-4 panel, select "GRD PWR" switch to "OFF".
9. On P5-4 panel, select Left "APU GEN" switch to "ON".
10. On P5-4 panel, select "BUS TRANS" switch to "OFF".
11. Verify that the #2 TRANSFER BUS OFF light is ON (illuminated) and the #1 TRANSFER BUS OFF light is OFF (extinguished).
12. Do the following functional tests:
 - a. For airplanes that did not incorporate "SB 737-28A1248 - Center Fuel Tank, Fuel Pumps - Power Failed On Protection System (Un-commanded Pump ON)":
 - (1) Do the "Auto Shutoff Functional Test for the Left Center Tank Boost Pump" in accordance with 737-600/700/800/900 AMM 28-22-00.
 - (2) Do the "Master Caution Functional Test for the Center Tank Boost Pump" for the Left Center Boost Pump in accordance with 737-600/700/800/900 AMM 28-22-00.
 - (3) After turning off the Left Center Tank Boost Pump at the P5-2 panel, verify by listening that the Left Center Tank Boost Pump is OFF.
 - b. For airplanes that did incorporate "SB 737-28A1248 - Center Fuel Tank, Fuel Pumps - Power Failed On Protection System (Un-commanded Pump ON)":
 - (1) Do the "Auto Shutoff Functional Test for the Left Center Tank Boost Pump" in accordance with 737-600/700/800/900 AMM 28-22-00.
 - (2) Do the "Center Tank Boost Pump Power Failed On - Functional Test", "Test of the Left Center Tank Relay " in accordance with 737-600/700/800/900 AMM 28-22-00.
 - (3) Do the "Master Caution Functional Test for the Center Tank Boost Pump" for the Left Center Boost Pump in accordance with 737-600/700/800/900 AMM 28-22-00.
 - (4) After turning off the Left Center Tank Boost Pump at the P5-2 panel, verify by listening that the Left Center Tank Boost Pump is OFF.
13. Put the airplane back to a serviceable condition.

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FIGURE 1: J4 JUNCTION BOX - REMOVAL AND SALVAGE



This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

FIGURE 1: J4 JUNCTION BOX - REMOVAL AND SALVAGE

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Disconnect	Connector	-	8	from the J4 Junction Box.
2	Remove / Keep	Cover Plate	284A3204-15	1	Rotate the 4 x 1/4 turn fasteners to remove the J4 Junction Box cover plate.
3	Remove / Keep	Jumper	BACJ40A20-6	1	from the J4 Junction Box.
		Washer	NAS1149D0316H	1	
		Nut	BACN10YR3CD	1	
4	Remove	J4 Junction Box Bottom Assembly	284A3204-11	1	Rotate the 6 x 1/4 turn fasteners to remove the J4 Junction Box Bottom Assembly from the J4 Junction Box.
5	Remove / Keep	Relay	BACR13CG2AB	4	
6	Remove / Keep	Relay	XL-D4N-009	2	
7	Remove / Keep	Relay	BACR13CD2	1	
8	Remove / Keep	Relay	BACR13CF2AB	6	
9	Remove / Keep	Transformer	310-18844-01	4	Remove and keep the attachment bolts.
10	Remove / Keep	Noise Suppressor Assembly	69-34728-2	1	
11	Remove / Keep	Bolt	BACS12HN3-8	4	
12	Remove / Keep	Relay	9123-8071	1	
13	Remove / Keep	Bolt	BACS12HN08-8	8	
14	Remove / Keep	Relay	9274-6686	2	
15	Remove	Strap	BACS38K5	2	Discard these items.
16	Remove	Nut (Farside)	BACN10YR3CD	2	Discard these items.
17	Remove / Keep	Mounting Plate (Nearside)	STBP19M12	2	
		Screw (Nearside)	NAS603-32P	2	
		Washer, Plain (Nearside)	NAS1149D0332J	2	
		Spacer (Nearside)	NAS43DD3-88FC	2	
		Washer, Plain (Farside)	NAS1149D0332J	2	
18	Remove / Keep	Screw	NAS1801-3-10	3	

FIGURE 1: J4 JUNCTION BOX - REMOVAL AND SALVAGE

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
19	Remove	Strap	BACS38K5	3	from wire bundle. Discard these items.
		Clamp	-	3	
20	Remove	Nut (Farside)	BACN10YR4CD	32	Discard these items.
21	Remove / Keep	Screw (Nearside)	NAS1801-04-5	32	
		Washer (Nearside)	NAS1149DN332J	32	
		Connector	-	8	Remove and keep the wire bundle and connectors. (a)
		Wire Bundle	-	1	
(a) Discard the J4 Junction Box Bottom Assembly after all parts are removed.					

FIGURE 1: J4 JUNCTION BOX - REMOVAL AND SALVAGE

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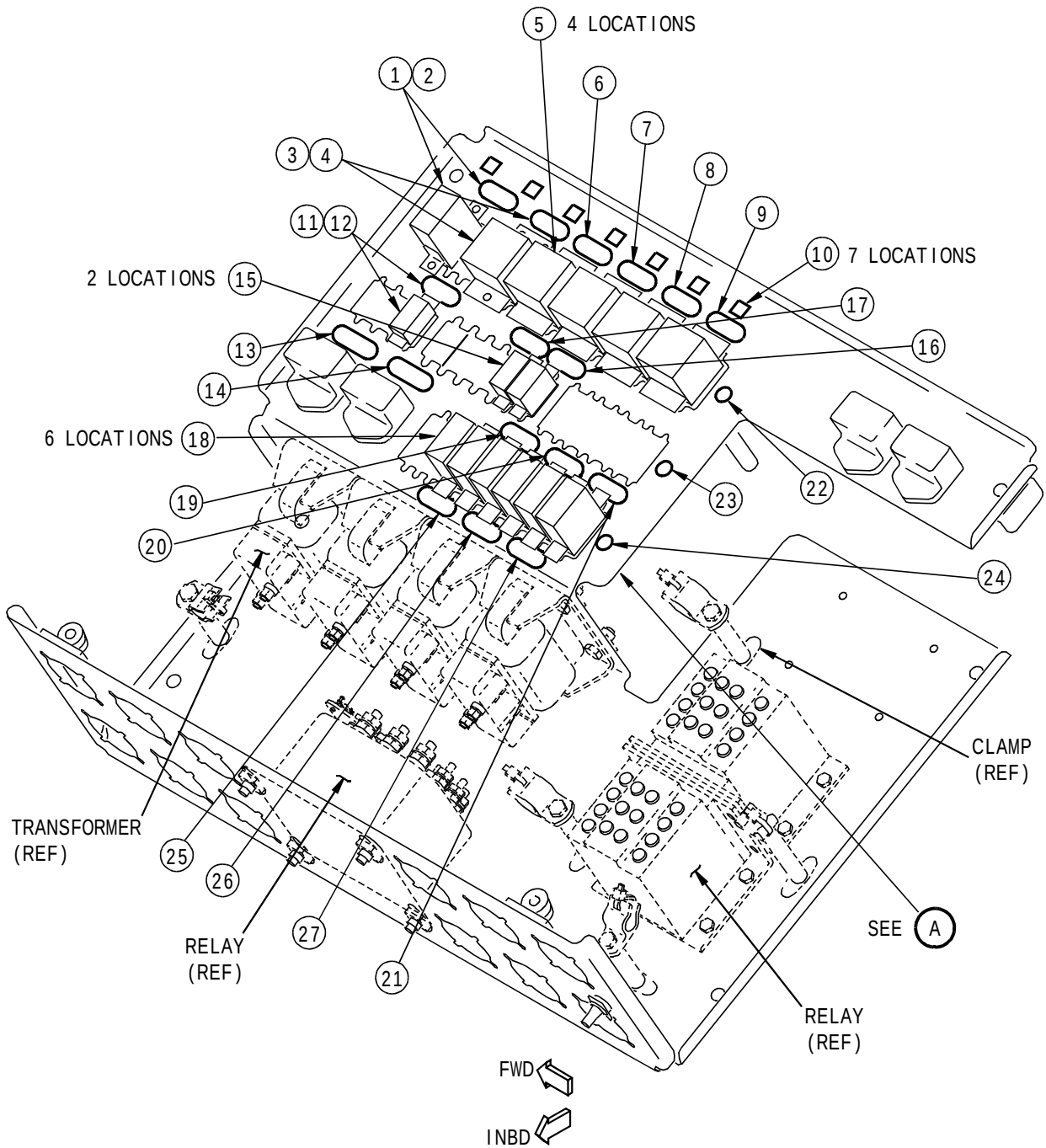
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FIGURE 2: J4 JUNCTION BOX BOTTOM ASSEMBLY - RELAY AND MARKER INSTALLATION



J4 JUNCTION BOX BOTTOM ASSEMBLY

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FIGURE 2: J4 JUNCTION BOX BOTTOM ASSEMBLY - RELAY AND MARKER INSTALLATION

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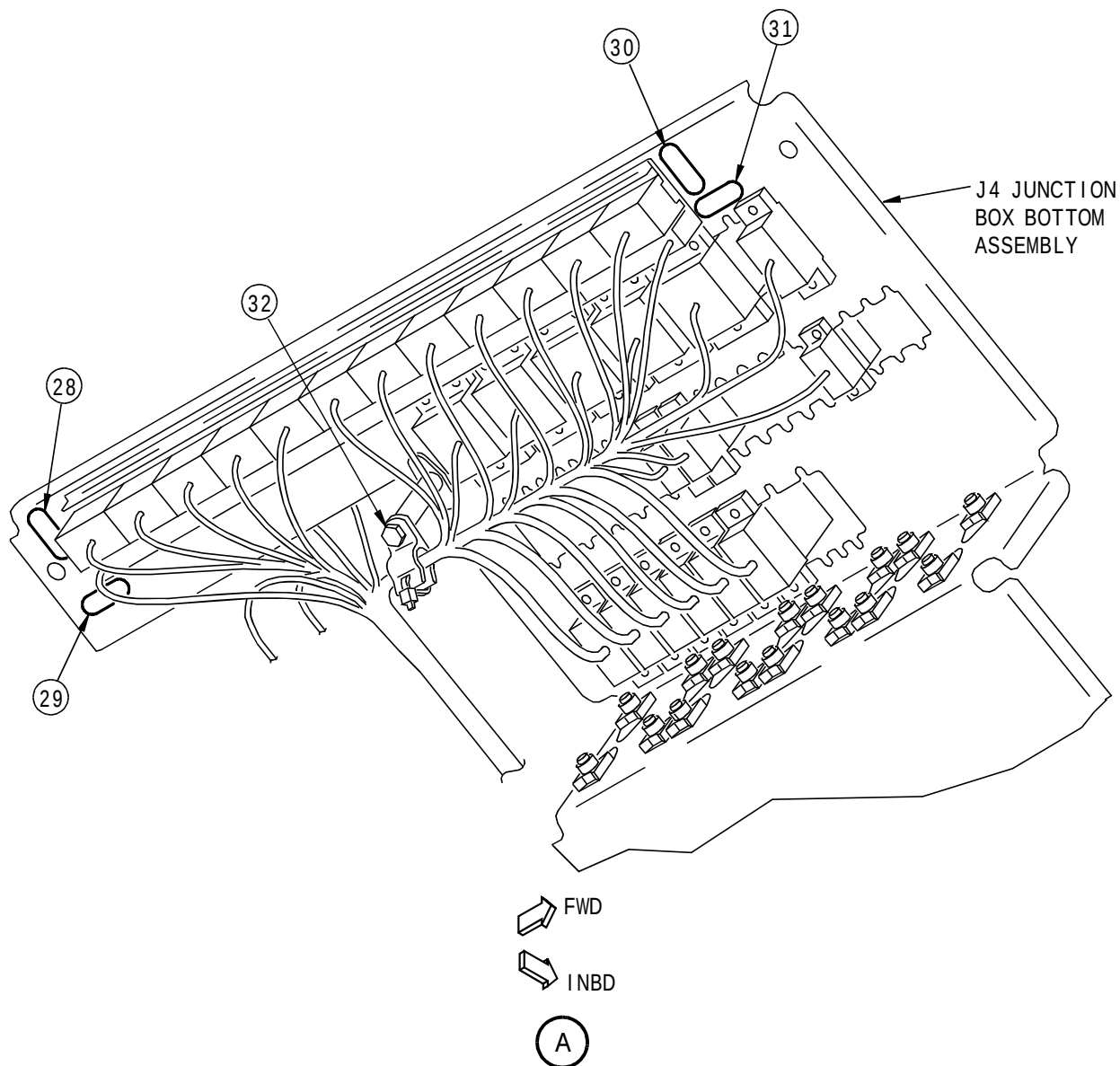
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

FIGURE 2: J4 JUNCTION BOX BOTTOM ASSEMBLY - RELAY AND MARKER INSTALLATION

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J4 Junction Box Bottom Assembly part number 284A3204-19.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J4 Junction Box Bottom Assembly.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	Relay	BACR13CJ2	1	R937. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7090	1	R937. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	TDH-8116-1502	1	R935. Refer to SWPM 20-81-22., as an accepted procedure.
4	Install (New)	Marker	BAC27DEX7088	1	R935. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CG2AB	4	R856, R853, R852, R848. Refer to SWPM 20-81-22., as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7082	1	R856. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7081	1	R853. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7080	1	R852. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7079	1	R848. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Marker	BAC27NEX0938	1	Trim as shown for position 1 through 7. Discard the remaining positions. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (Kept)	Relay	BACR13CD2	1	R806. Refer to SWPM 20-81-22., as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7076	1	R806. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7070	1	GD436. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27DEX7071	1	GD438. Refer to SOPM 20-50-05, as an accepted procedure.
15	Install (Kept)	Relay	XL-D4N-009	2	R805, R881. Refer to SWPM 20-81-22., as an accepted procedure.
16	Install (New)	Marker	BAC27DEX7075	1	R805. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 2: J4 JUNCTION BOX BOTTOM ASSEMBLY - RELAY AND MARKER INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
17	Install (New)	Marker	BAC27DEX7086	1	R881. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (Kept)	Relay	BACR13CF2AB	6	R874, R870, R869, R810, R807, R444. Refer to SWPM 20-81-22., as an accepted procedure.
19	Install (New)	Marker	BAC27DEX7084	1	R870. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27DEX7078	1	R810. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27DEX5844	1	R444. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
24	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.
25	Install (New)	Marker	BAC27DEX7085	1	R874. Refer to SOPM 20-50-05, as an accepted procedure.
26	Install (New)	Marker	BAC27DEX7083	1	R869. Refer to SOPM 20-50-05, as an accepted procedure.
27	Install (New)	Marker	BAC27DEX7077	1	R807. Refer to SOPM 20-50-05, as an accepted procedure.
28	Install (New)	Marker	BAC27DEX7069	1	TB402. Refer to SOPM 20-50-05, as an accepted procedure.
29	Install (New)	Marker	BAC27DEX7068	1	GB402. Refer to SOPM 20-50-05, as an accepted procedure.
30	Install (New)	Marker	BAC27DEX7067	1	TB401. Refer to SOPM 20-50-05, as an accepted procedure.
31	Install (New)	Marker	BAC27DEX7066	1	GB401. Refer to SOPM 20-50-05, as an accepted procedure.
32	Install (New)	Screw	BACS12HN3-10	1	

FIGURE 2: J4 JUNCTION BOX BOTTOM ASSEMBLY - RELAY AND MARKER INSTALLATION

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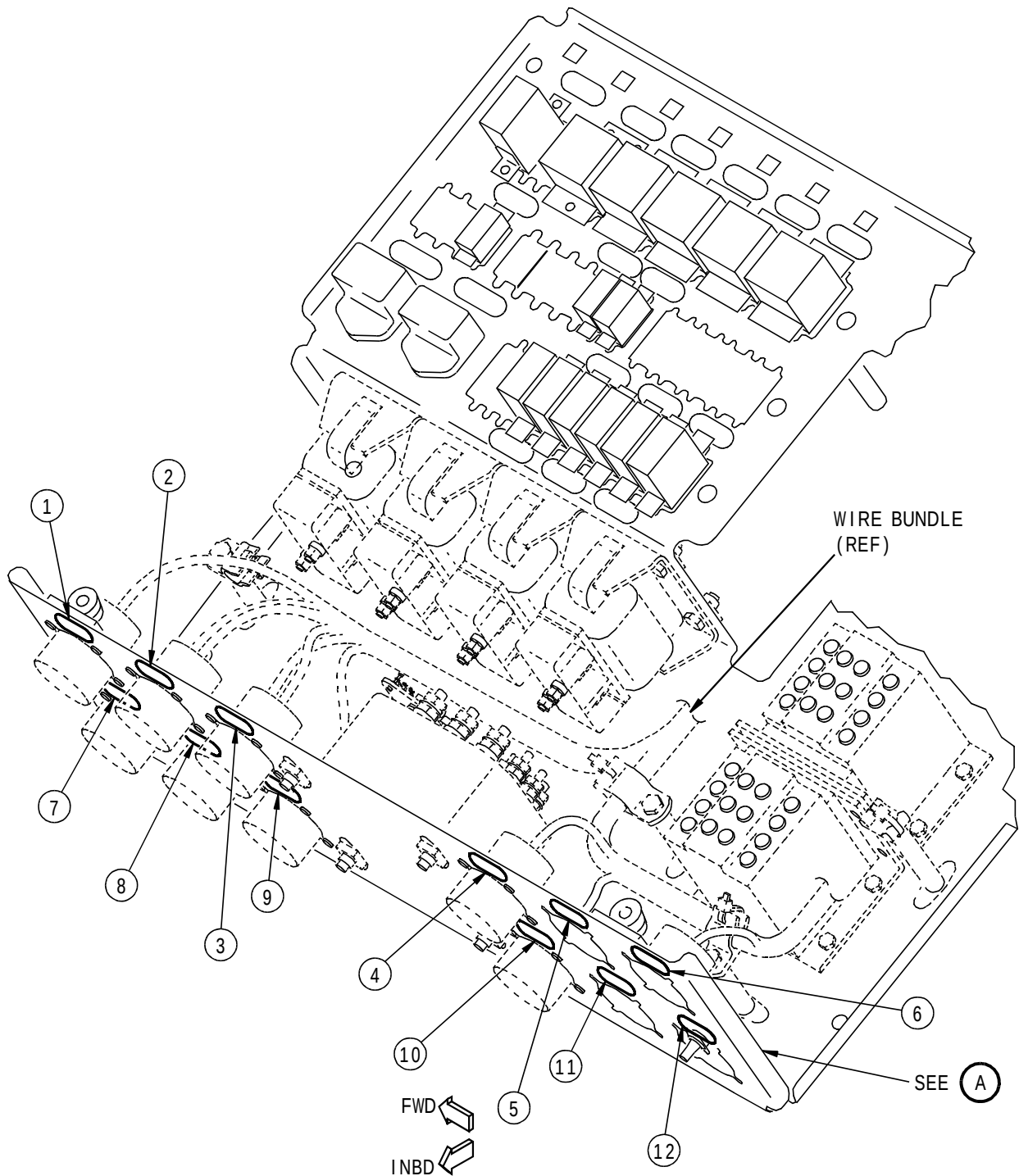
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FIGURE 3: J4 JUNCTION BOX BOTTOM ASSEMBLY- RECEPTACLE, RELAY AND MARKER INSTALLATION



J4 JUNCTION BOX BOTTOM ASSEMBLY

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FIGURE 3: J4 JUNCTION BOX BOTTOM ASSEMBLY- RECEPTACLE, RELAY AND MARKER INSTALLATION

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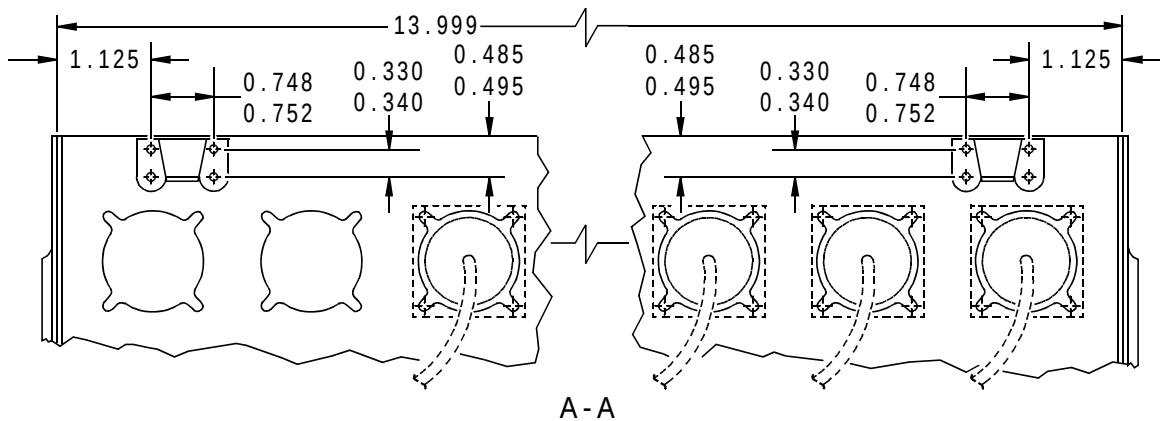
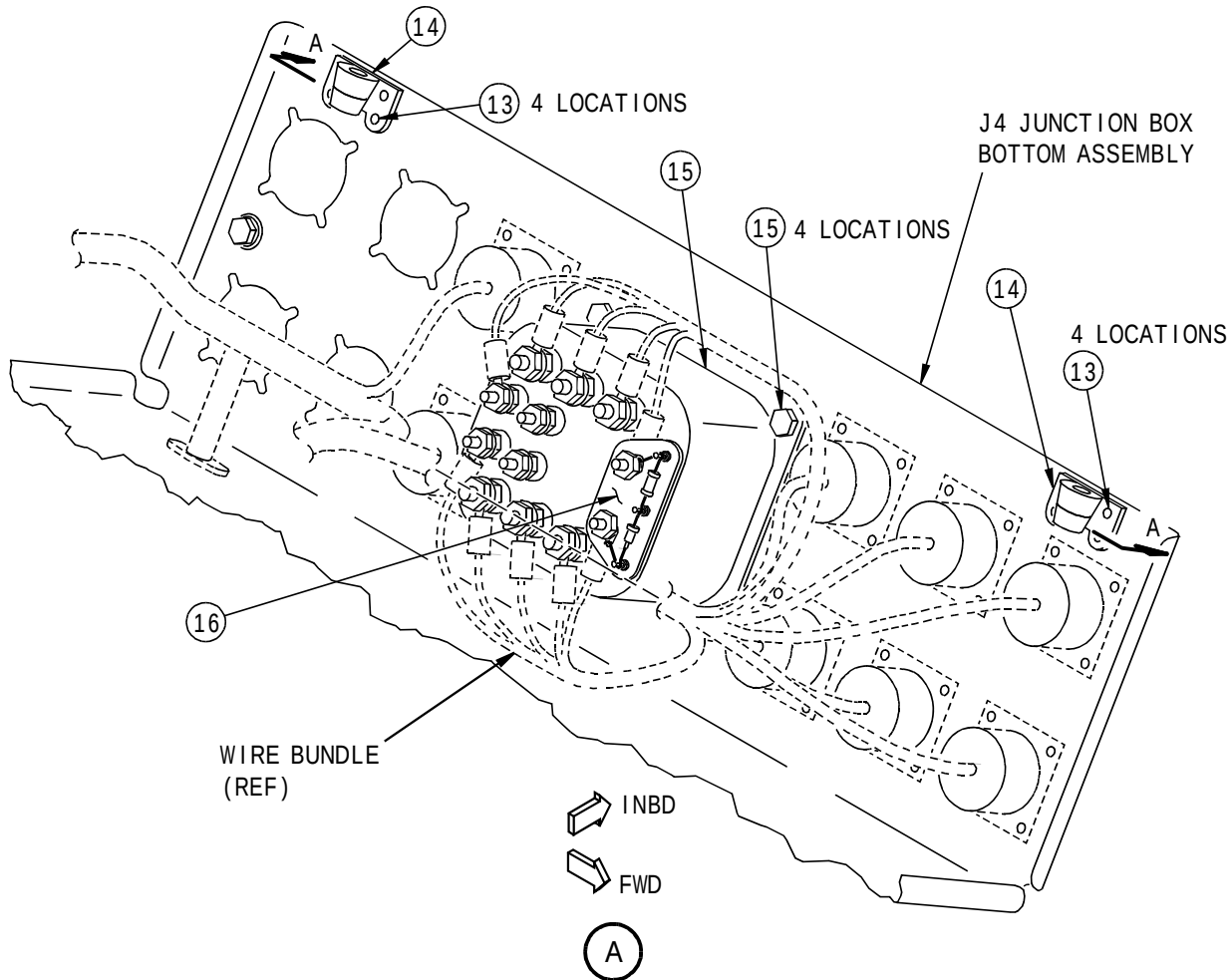
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

FIGURE 3: J4 JUNCTION BOX BOTTOM ASSEMBLY- RECEPTACLE, RELAY AND MARKER INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J4 Junction Box Bottom Assembly part number 284A3204-19.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J4 Junction Box Bottom Assembly.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
2	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
4	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (New)	Marker	BAC27NEX0708	1	POS 5. Refer to SOPM 20-50-05, as an accepted procedure.
6	Install (New)	Marker	BAC27NEX0709	1	POS 6. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27NEX0710	1	POS 7. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27NEX0711	1	POS 8. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Marker	BAC27NEX0712	1	POS 9. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Marker	BAC27NEX0713	1	POS 10. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27NEX0714	1	POS 11. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27NEX0715	1	POS 12. Refer to SOPM 20-50-05, as an accepted procedure.
13	Drill	Hole	-	8	Drill a 0.098 - 0.103 holes at locations shown.
14	Install (New)	Receptacle	BACR11AW4A	2	
		Rivets	BACR15BB3AD3C	8	
15	Install (Kept)	Relay	9123-8071	1	
		Bolt	BACS12HN3-8	4	
16	Install (Kept)	Noise Suppressor Assembly	69-34728-2	1	

FIGURE 3: J4 JUNCTION BOX BOTTOM ASSEMBLY- RECEPTACLE, RELAY AND MARKER INSTALLATION

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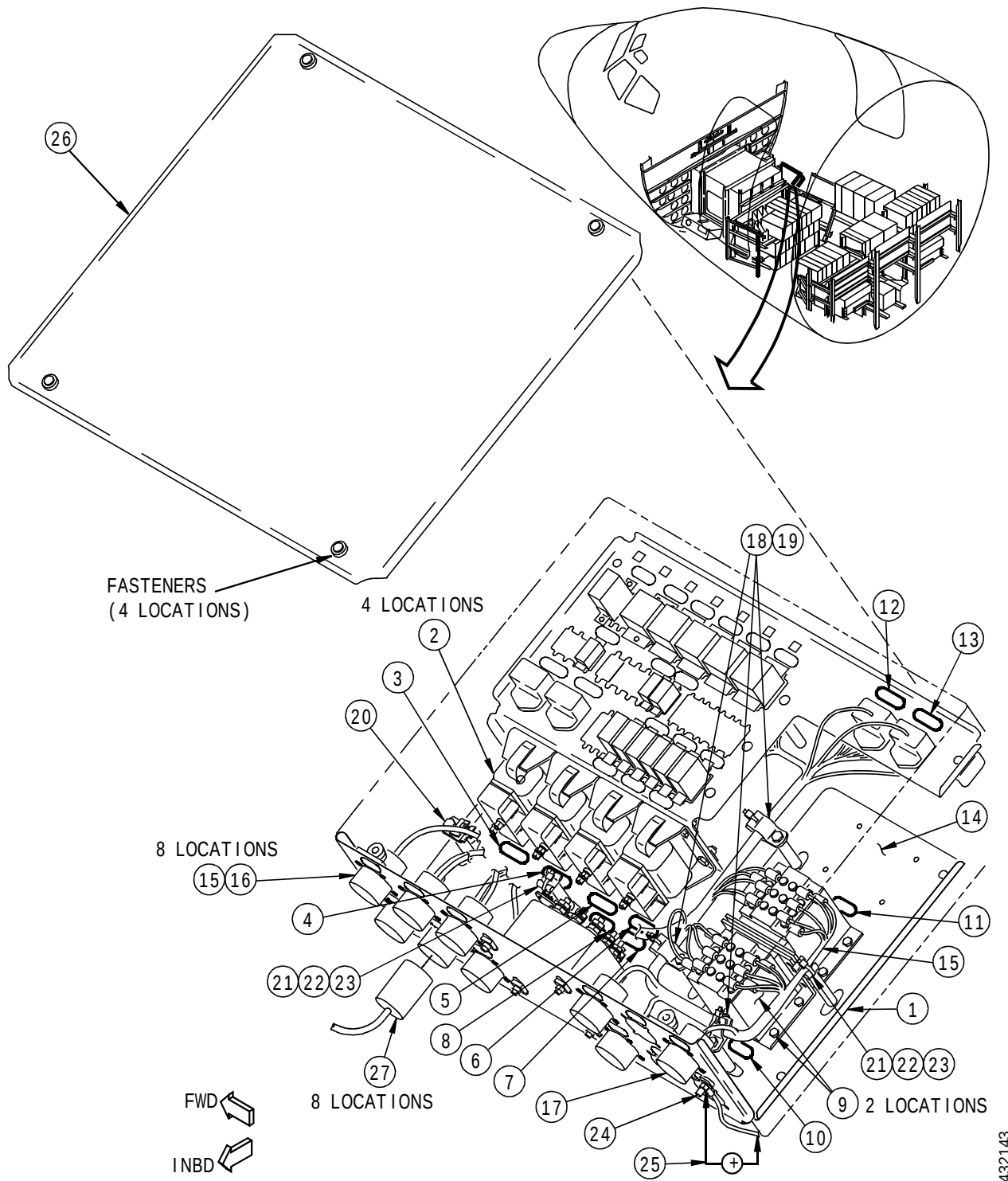
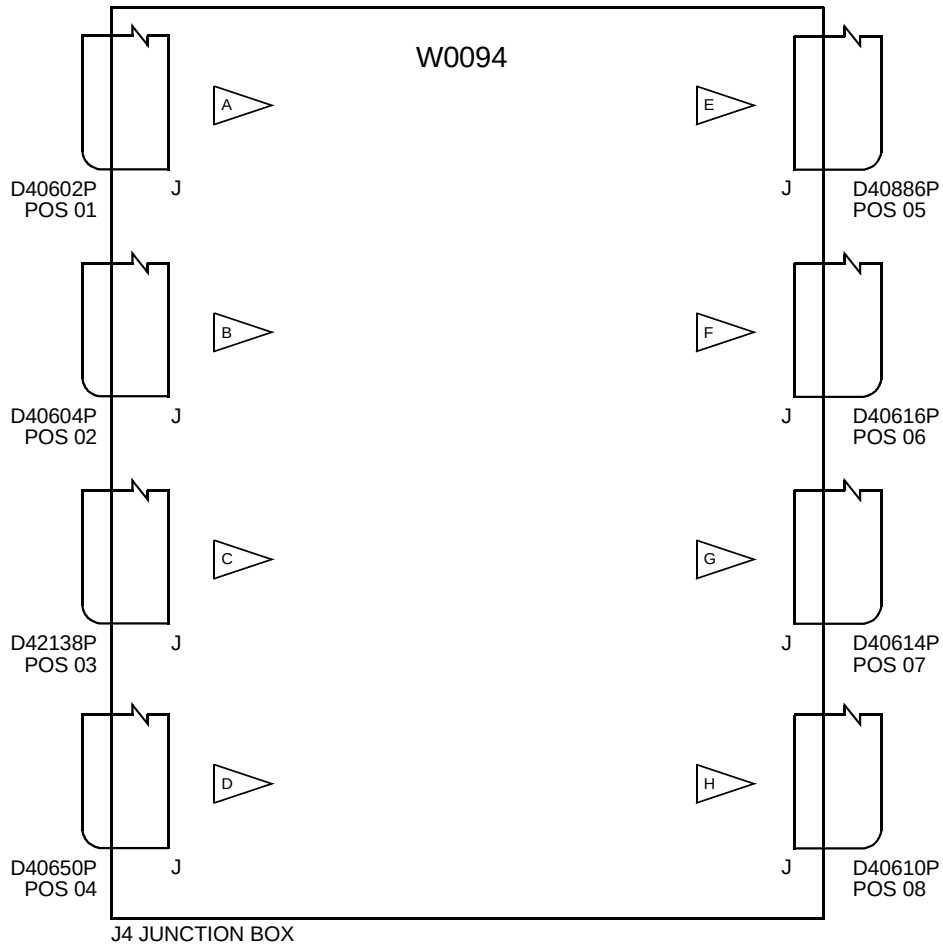
ALERT**ALERT****FIGURE 4: J4 JUNCTION BOX - J4 JUNCTION BOX BOTTOM ASSEMBLY, TRANSFORMER AND MARKER INSTALLATION**

FIGURE 4: J4 JUNCTION BOX - J4 JUNCTION BOX BOTTOM ASSEMBLY, TRANSFORMER AND MARKER INSTALLATION
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-  LOCATE D40602J/P AT POS 01.
-  LOCATE D40604J/P AT POS 02.
-  LOCATE D42138J/P AT POS 03.
EXTEND WIRING AS REQUIRED USING
UNCODED WIRE, SPLICES AND CONTACTS.
-  LOCATE D40650J/P AT POS 04.
-  RELOCATE D40886J/P AT POS 05 TO POS 07.
-  RELOCATE D40616J/P AT POS 06 TO POS 08.
-  RELOCATE D40614J/P AT POS 07 TO POS 09.
EXTEND WIRING AS REQUIRED USING
UNCODED WIRE, SPLICES AND CONTACTS.
-  RELOCATE D40610J/P AT POS 08 TO POS 10.

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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

FIGURE 4: J4 JUNCTION BOX - J4 JUNCTION BOX BOTTOM ASSEMBLY, TRANSFORMER AND MARKER INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	J4 Junction Box Bottom Assembly	284A3204-19	1	Install the J4 Junction Box Bottom Assembly into the J4 Junction Box.
2	Install (Kept)	Transformer	310-18844-01	4	Use kept attachment bolts.
3	Install (New)	Marker	BAC27DEX7091	1	T3012. Refer to SOPM 20-50-05, as an accepted procedure.
4	Install (New)	Marker	BAC27DEX7092	1	T3013. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (New)	Marker	BAC27DEX7093	1	T3014. Refer to SOPM 20-50-05, as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7094	1	T3015. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27TEX1597	1	R64. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7074	1	M110. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (Kept)	Relay Screw	9274-6686 BACS12HN08-8	2 8	
10	Install (New)	Marker	BAC27DEX6949	1	R57. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27DEX6950	1	R58. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7073	1	GD514. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7072	1	GD512. Refer to SOPM 20-50-05, as an accepted procedure.
14	Identify	Part-Mark	284A2204-9	1	Identify as 284A2204-9. Refer to SOPM 20-50-10, as an accepted procedure.
15	Install (Kept)	Wire Bundle	-	1	
		Connector	-	8	
		Screw	NAS1801-04-5 (Near side)	32	
		Washer	NAS1149DN332J (Near side)	32	
16	Install (New)	Nut	BACN10YR4CD (Far side)	32	
17	Install (New)	Screw	NAS1801-04-5 (Near side)	4	Install the connector after the wiring changes are done.
		Washer	NAS1149DN332J (Near side)	4	
		Nut	BACN10YR4CD (Far side)	4	

FIGURE 4: J4 JUNCTION BOX - J4 JUNCTION BOX BOTTOM ASSEMBLY, TRANSFORMER AND MARKER INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
18	Install (New)	Clamp	287T0011-1 or 287T0011-2 or 287T0011-3	3	
		Strap	BACS38K5	3	
19	Install (Kept)	Screw	NAS1801-3-10	3	
20	Install (New)	Clamp	287T0011-1 or 287T0011-2 or 287T0011-3	1	
		Strap	BACS38K5	1	
		Screw	NAS1801-3-10	1	
21	Install (Kept)	Screw	NAS603-32P (Nearside)	2	
		Mounting Plate	STBP19M12 (Nearside)	2	
		Washer	NAS1149DD0332J (Nearside)	2	
		Spacer	NAS43DD3-88FC (Nearside)	2	
		Washer	NAS1149D0332J (Farside)	2	
22	Install (New)	Nut	BACN10YR3CD (Farside)	2	
23	Install (New)	Strap	BACS38K5	2	
24	Install (Kept)	Jumper	BACJ40A20-6	1	
		Washer	NAS1149D0316H	1	
		Nut	BACN10YR3CD	1	
25	Measure	Resistance	-	1	between J4 Junction Box and structure. Refer to SWPM 20-20-00. Make sure the resistance is not more than 0.001 ohm.
26	Install (Kept)	Cover Plate	284A3204-15	1	Rotate the 4 x 1/4 turn fasteners to install the J4 Junction Box cover plate.
27	Connect	Connector	-	8	to the J4 Junction Box.

FIGURE 4: J4 JUNCTION BOX - J4 JUNCTION BOX BOTTOM ASSEMBLY, TRANSFORMER AND MARKER INSTALLATION

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This diagram illustrates the exploded view of the R-10000 receiver chassis, detailing the placement of various components. The main chassis is shown with a front panel (1) and a rear panel (2). The front panel is secured by 18 screws (18) at 9 locations. The rear panel is secured by 17 screws (17) at 4 locations. The chassis is populated with various electronic components, including a power transformer (3), a power supply filter (4), a power supply capacitor (5), a power supply resistor (6), a power supply inductor (7), a power supply diode (8), a power supply transistor (9), a power supply diode (10), a power supply transistor (11), a power supply diode (12), a power supply transistor (13), a power supply diode (14), a power supply transistor (15), a power supply diode (16), a power supply transistor (17), and a power supply diode (18). The diagram also shows the location of the power supply transformer (3) and the power supply filter (4). The power supply capacitor (5) is located on the power supply filter (4). The power supply resistor (6) is located on the power supply capacitor (5). The power supply inductor (7) is located on the power supply resistor (6). The power supply diode (8) is located on the power supply inductor (7). The power supply transistor (9) is located on the power supply diode (8). The power supply diode (10) is located on the power supply transistor (9). The power supply transistor (11) is located on the power supply diode (10). The power supply diode (12) is located on the power supply transistor (11). The power supply transistor (13) is located on the power supply diode (12). The power supply diode (14) is located on the power supply transistor (13). The power supply transistor (15) is located on the power supply diode (14). The power supply diode (16) is located on the power supply transistor (15). The power supply transistor (17) is located on the power supply diode (16). The power supply diode (18) is located on the power supply transistor (17). The diagram also shows the location of the power supply transformer (3) and the power supply filter (4). The power supply capacitor (5) is located on the power supply filter (4). The power supply resistor (6) is located on the power supply capacitor (5). The power supply inductor (7) is located on the power supply resistor (6). The power supply diode (8) is located on the power supply inductor (7). The power supply transistor (9) is located on the power supply diode (8). The power supply diode (10) is located on the power supply transistor (9). The power supply transistor (11) is located on the power supply diode (10). The power supply diode (12) is located on the power supply transistor (11). The power supply transistor (13) is located on the power supply diode (12). The power supply diode (14) is located on the power supply transistor (13). The power supply transistor (15) is located on the power supply diode (14). The power supply diode (16) is located on the power supply transistor (15). The power supply transistor (17) is located on the power supply diode (16). The power supply diode (18) is located on the power supply transistor (17).

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Disconnect	Connector	-	9	from the J4 Junction Box.
2	Remove / Keep	Cover Plate	284A3204-15	1	Rotate the 4 x 1/4 turn fasteners to remove the J4 Junction Box cover plate.
3	Remove	Washer Nut	NAS1149D0316H BACN10YR3CD	1 1	Discard these items.
4	Remove / Keep	Jumper	BACJ40A20-6	1	from the J4 Junction Box.
5	Remove / Keep	J4 Junction Box Bottom Assembly	284A3204-19	1	Rotate the 6 x 1/4 turn fasteners to remove the J4 Junction Box Bottom Assembly from the J4 Junction Box to install the relay sockets and do the wiring changes.
6	Remove	Strap	BACS38K5	1	Discard this item.
7	Install (New)	Relay	BACR13CJ2	1	R937. Refer to SWPM 20-81-22., as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7090	1	R937. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Relay	TDH-8116-1502	1	R935. Refer to SWPM 20-81-22., as an accepted procedure.
10	Install (New)	Marker	BAC27DEX7088	1	R935. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Strap	BACS38K5	1	Refer to SWPM 20-10-11., as an accepted procedure.
12	Install (New)	Screw (Nearside) Washer (Nearside) Nut (Farside)	BACS12HN04-5 NAS1149DN332J BACN10YR04CD	4 4 4	Install the connector after the wiring changes are done.
13	Install (Kept)	J4 Junction Box Bottom Assembly	284A3204-19	1	Rotate the 6 x 1/4 turn fasteners to install the J4 Junction Box Bottom Assembly to the J4 Junction Box after the wiring changes are done.
14	Install (Kept)	Jumper	BACJ40A20-6	1	
15	Install (New)	Washer Nut	NAS1149D0316H BACN10YR3CD	1 1	
16	Measure	Resistance	-	1	between J4 Junction Box and structure. Refer to SWPM 20-20-00. Make sure the resistance is not more than 0.001 ohm.
17	Install (Kept)	Cover Plate	284A3204-15	1	Rotate the 4 x 1/4 turn fasteners to install the J4 Junction Box cover plate.
18	Connect	Connector	-	9	to the J4 Junction Box.

FIGURE 5: J4 JUNCTION BOX - MARKER AND RELAY INSTALLATION

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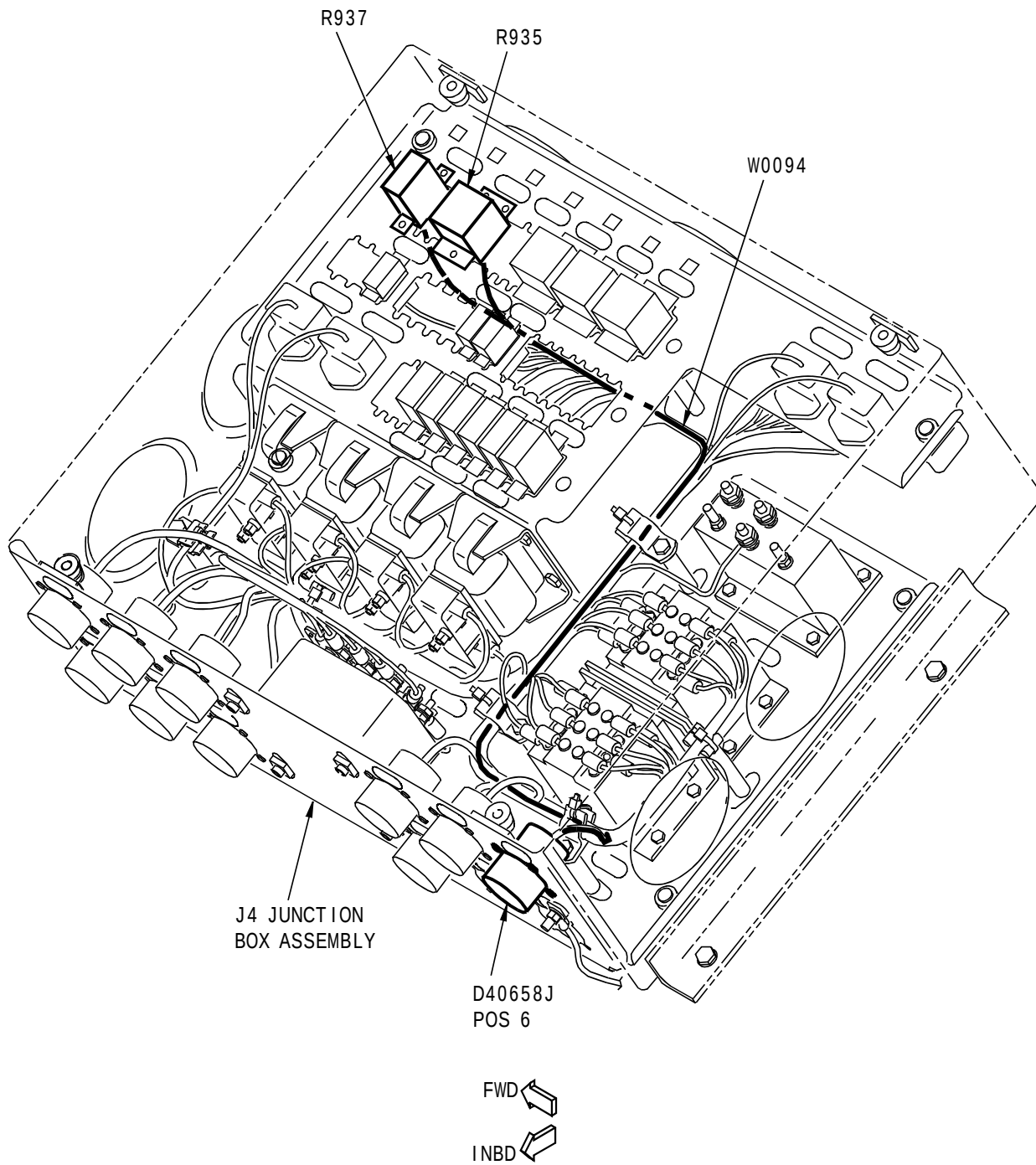
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FIGURE 6: W0094 WIRE BUNDLE ROUTING

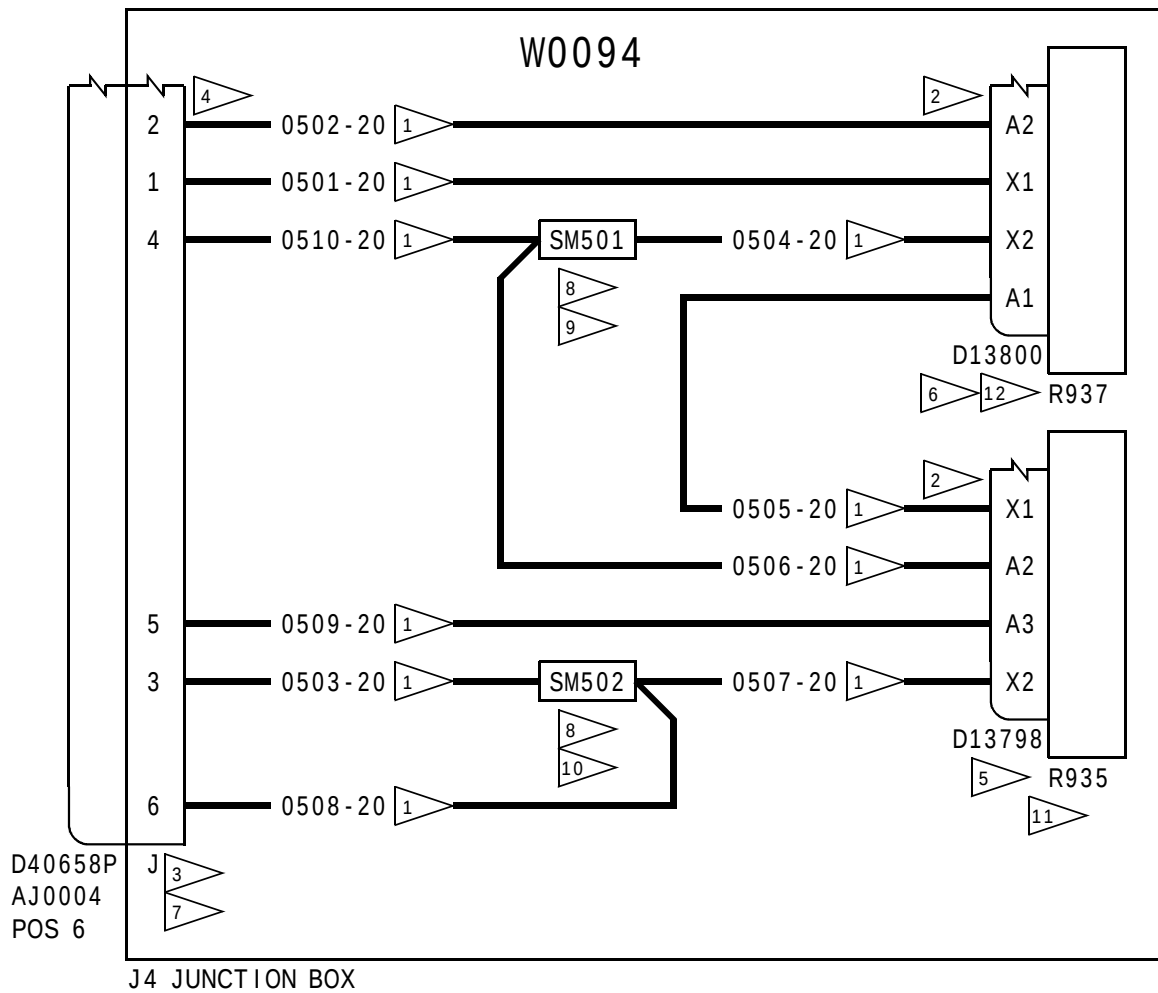


433569

This Figure applies to Group 4, Configuration 1:

FIGURE 6: W0094 WIRE BUNDLE ROUTING
(SHEET 1 OF 1)

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 Revision 2: May 21, 2009

ALERT**ALERT****FIGURE 7: WIRE BUNDLE W0094 WIRING CHANGE**

REFERENCE: WIRING DIAGRAM 28-23-11

428225

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1:

FIGURE 7: WIRE BUNDLE W0094 WIRING CHANGE
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The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	10	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Socket Contact	BACC47DJ2	8	Refer to SWPM 20-81-12., as an accepted procedure.
3	Connector	BACC45FN18-31P	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-10506	-	Insert filler rods into empty cavities.
4	Pin Contact	BACC47CN1SB	6	Refer to SWPM 20-61-11., as an accepted procedure.
5	Relay Socket	BACS16W10A	1	D13798. Refer to SWPM 20-81-12, as an accepted procedure.
6	Relay Socket	BACS16X6A	1	D13800. Refer to SWPM 20-81-12, as an accepted procedure.
7	I.D. Tape, Connector	280A3113-10503	1	Imprinted "D40658J M/W AJ0004 POS 09". Install ID tape within 6 inches of connector.
8	Splice	D436-37	2	Refer to SWPM 20-31-12., as an accepted procedure.
9	Sleeve, Splice I.D.	280A3113-10504	1	Imprinted "SM501".
10	Sleeve, Splice I.D.	280A3113-10505	1	Imprinted "SM502".
11	I.D. Tape, Connector	280A3113-10501	1	Imprinted "D13798 M/W R935 RLY R AUTO SHUTOFF TD". Install ID tape within 6 inches of connector.
12	I.D. Tape, Connector	280A3113-10502	1	Imprinted "D13800 M/W R937 RLY R AUTO SHUTOFF 115VAC". Install ID tape within 6 inches of connector.

FIGURE 7: WIRE BUNDLE W0094 WIRING CHANGE**(SHEET 2 OF 2)**

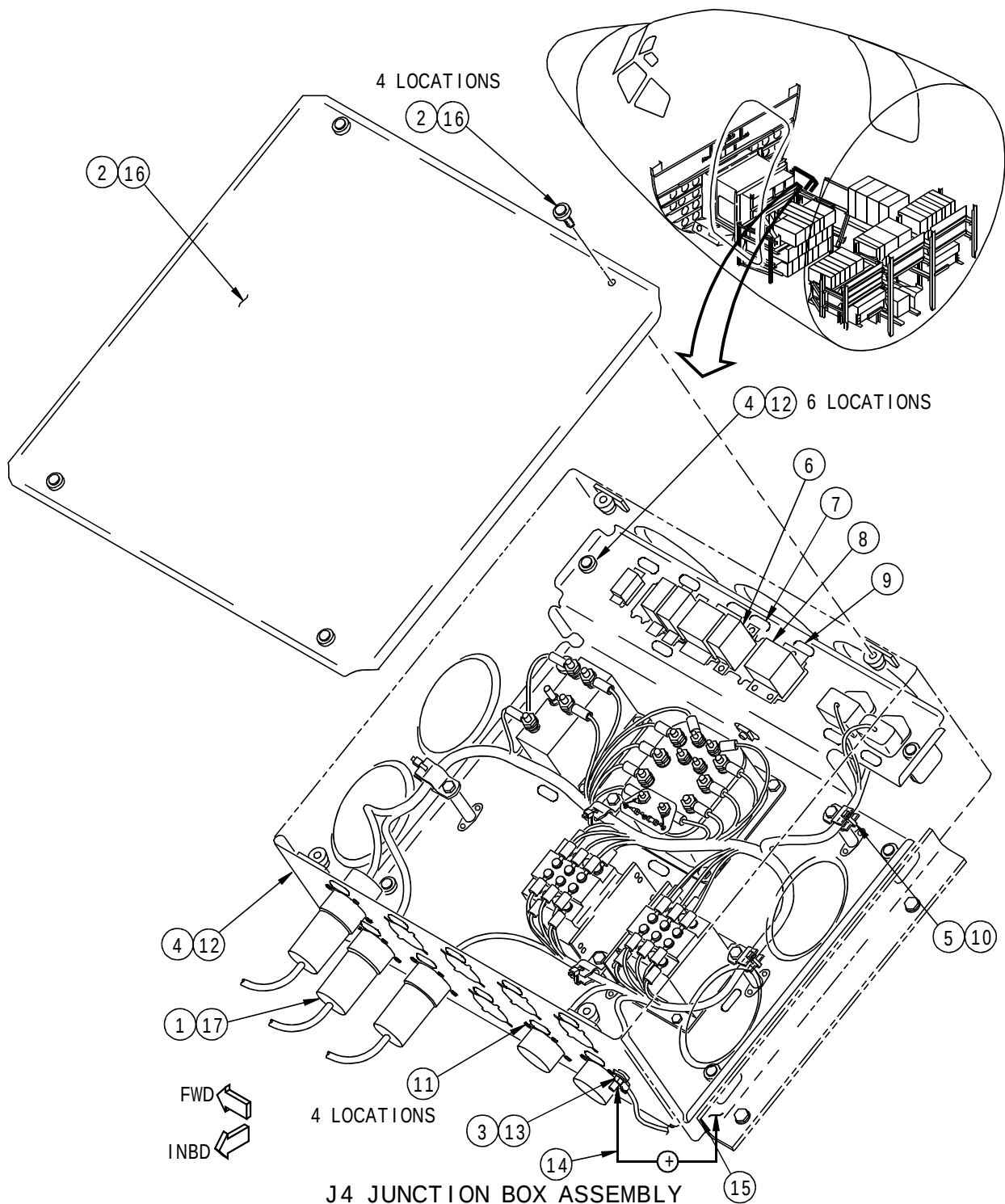
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FIGURE 8: J4 JUNCTION BOX - MARKER AND RELAY INSTALLATION



This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16,

FIGURE 8: J4 JUNCTION BOX - MARKER AND RELAY INSTALLATION

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Configuration 1; Group 17, Configuration 1:

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Disconnect	Connector	-	4	from the J4 Junction Box.
2	Remove / Keep	Cover Plate	284A3204-()	1	Rotate the 4 x 1/4 turn fasteners to remove the J4 Junction Box cover plate.
3	Remove / Keep	Jumper Washer Nut	BACJ40A20-6 NAS1149D0316H BACN10YR3CD	1 1 1	the J4 Junction Box.
4	Remove / Keep	J4 Junction Box Bottom Assembly	284A3204-()	1	Rotate the 6 x 1/4 turn fasteners to remove the J4 Junction Box Bottom Assembly from the J4 Junction Box to install the relay sockets and do the wiring changes.
5	Remove	Strap	BACS38K5	1	Discard this item.
6	Install (New)	Relay	BACR13CJ2	1	R937. Refer to SWPM 20-81-22.
7	Install (New)	Marker	BAC27DEX7090	1	Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Relay	TDH-8116-1502	1	R935. Refer to SWPM 20-81-22., as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7088	1	Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Strap	BACS38K5	1	Refer to SWPM 20-10-11., as an accepted procedure.
11	Install (New)	Screw (Nearside) Washer (Nearside) Nut (Farside)	BACS12HN04-5 NAS1149DN332J BACN10YR04CD	4 4 4	Install the connector after the wiring changes are done.
12	Install (Kept)	J4 Junction Box Bottom Assembly	284A3204-()	1	Rotate the 6 x 1/4 turn fasteners to install the J4 Junction Box Bottom Assembly to the J4 Junction Box after the wiring changes are done.
13	Install (Kept)	Jumper Washer Nut	BACJ40A20-6 NAS1149D0316H BACN10YR3CD	1 1 1	to the J4 Junction Box.
14	Measure	Resistance	-	1	between the J4 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
15	Identify	J4 Junction Box	284A1204-()	1	(a)

FIGURE 8: J4 JUNCTION BOX - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
16	Install (Kept)	Cover Plate	284A3204-()	1	Rotate the 4 x 1/4 turn fasteners to install the J4 Junction Box cover plate.
17	Connect	Connector	-	4	to the J4 Junction Box.
(a) After the J4 Junction Box is reworked, part-mark it as shown below: 284A1204-1 as 284A9200-56, 284A1204-2 as 284A9200-57, 284A1204-4 as 284A9200-58, 284A1204-104 as 284A9200-58, 284A1204-5 as 284A9200-59, 284A1204-105 as 284A9200-59, 284A1204-6 as 284A9200-60, 284A1204-106 as 284A9200-60, 284A1204-7 as 284A9200-61, 284A1204-107 as 284A9200-61, 284A1204-110 as 284A9200-62, 284A1204-111 as 284A9200-63, 284A1204-112 as 284A9200-64, 284A1204-114 as 284A9200-65, 284A1204-115 as 284A9200-66, 284A1204-116 as 284A9200-135, and 284A1204-201 REV A as 284A1204-201 REV B. Refer to SOPM 20-50-10, as an accepted procedure.					

FIGURE 8: J4 JUNCTION BOX - MARKER AND RELAY INSTALLATION

Original Issue: January 11, 2006

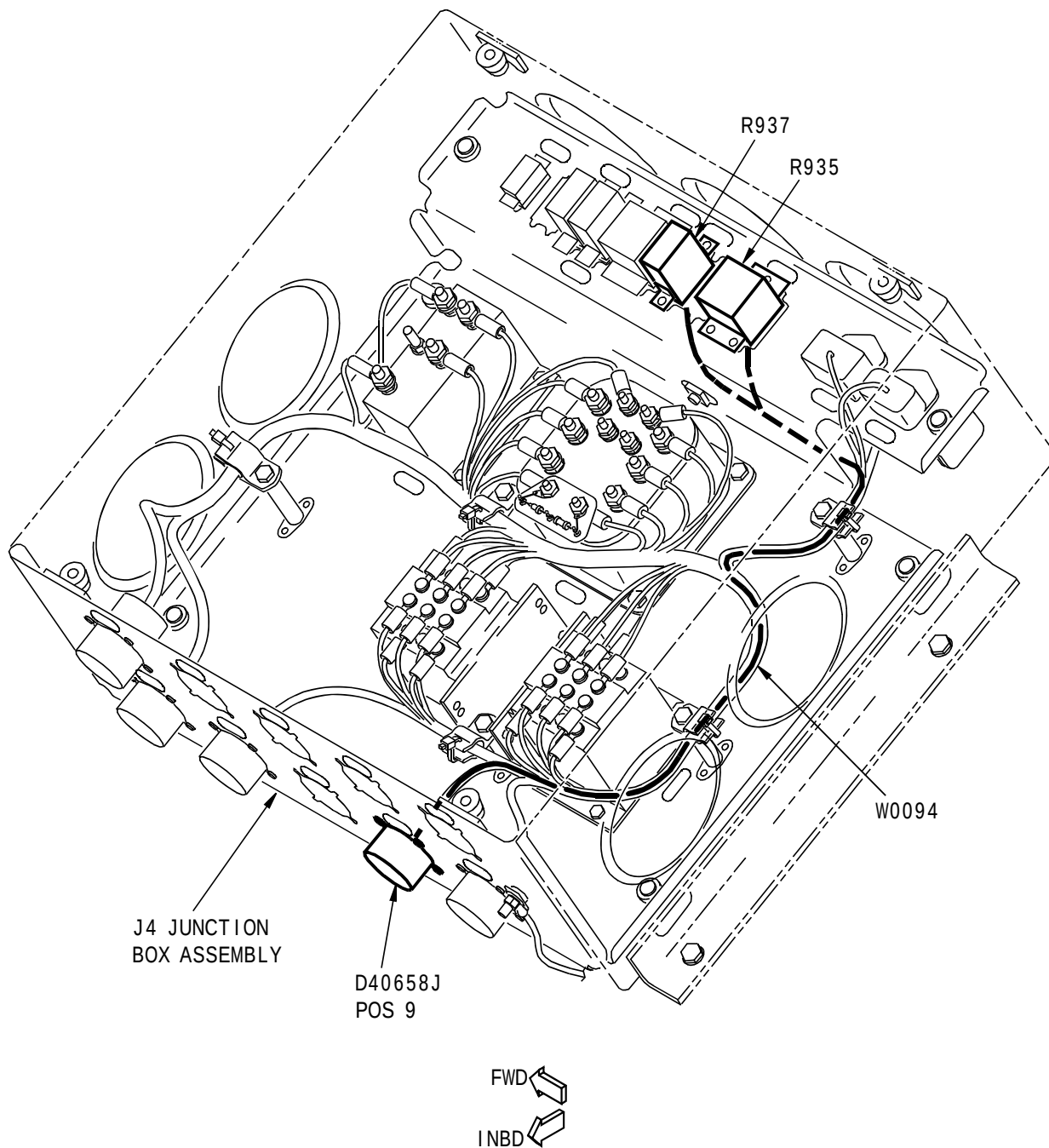
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FIGURE 9: W0094 WIRE BUNDLE ROUTING

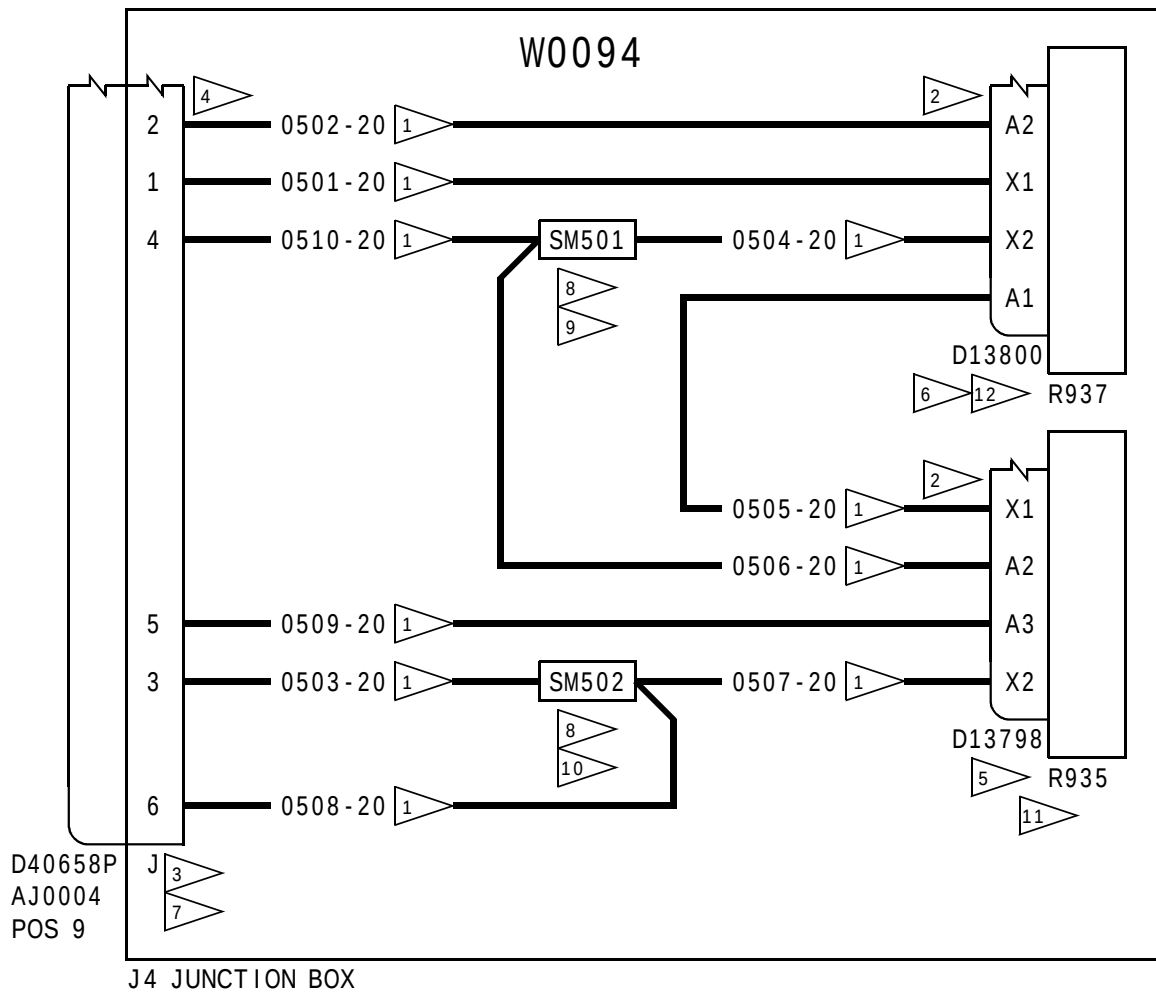


433565

This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1:

FIGURE 9: W0094 WIRE BUNDLE ROUTING
(SHEET 1 OF 1)

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ALERT**ALERT****FIGURE 10: WIRE BUNDLE W0094 WIRING CHANGE**

REFERENCE: WIRING DIAGRAM 28-23-11

——— ADDED WIRE OR NEW ROUTING

428226

This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16,

FIGURE 10: WIRE BUNDLE W0094 WIRING CHANGE

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Configuration 1; Group 17, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	10	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	1	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Socket Contact	BACC47DJ2	8	Refer to SWPM 20-81-12., as an accepted procedure.
3	Connector	BACC45FN18-31P6	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-10406	-	Insert filler rods into empty cavities.
4	Pin Contact	BACC47CN1SB	6	Refer to SWPM 20-61-11., as an accepted procedure.
5	Relay Socket	BACS16W10A	1	D13798. Refer to SWPM 20-81-12, as an accepted procedure.
6	Relay Socket	BACS16X6A	1	D13800. Refer to SWPM 20-81-12, as an accepted procedure.
7	I.D. Tape, Connector	280A3113-10403	1	Imprinted "D40658J M/W AJ0004 POS 06". Install ID tape within 6 inches of connector.
8	Splice	D436-37	2	Refer to SWPM 20-31-12., as an accepted procedure.
9	Sleeve, Splice I.D.	280A3113-10404	1	Imprinted "SM501".
10	Sleeve, Splice I.D.	280A3113-10405	1	Imprinted "SM502".
11	I.D. Tape, Connector	280A3113-10401	1	Imprinted "D13798 M/W R935 RLY R AUTO SHUTOFF TD". Install ID tape within 6 inches of connector.
12	I.D. Tape, Connector	280A3113-10402	1	Imprinted "D13800 M/W R937 RLY R AUTO SHUTOFF 115VAC". Install ID tape within 6 inches of connector.

FIGURE 10: WIRE BUNDLE W0094 WIRING CHANGE

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FIGURE 11: J20 JUNCTION BOX - REMOVAL AND SALVAGE

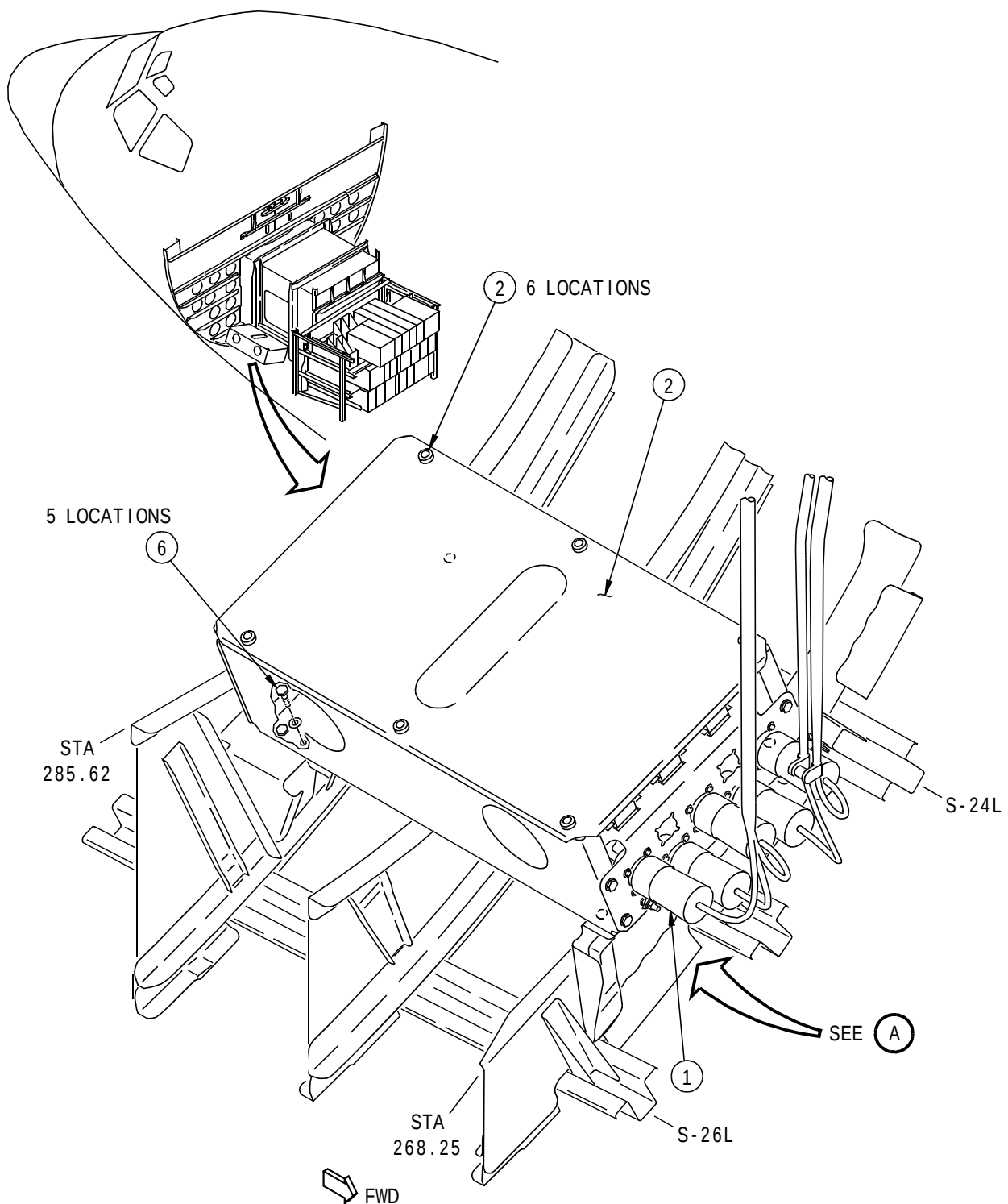


FIGURE 11: J20 JUNCTION BOX - REMOVAL AND SALVAGE
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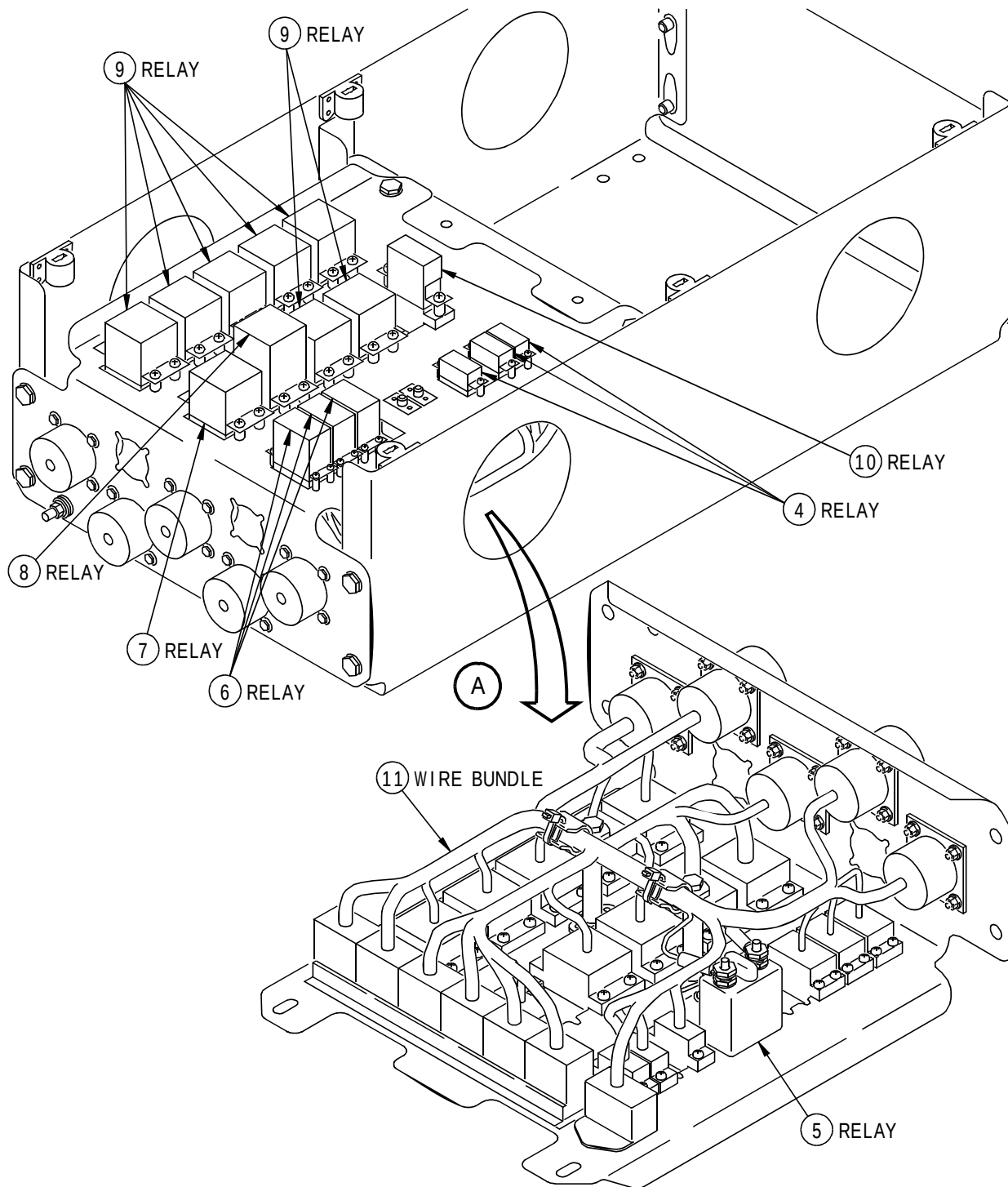
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TYPICAL RELAY ARRANGEMENT SHOWN

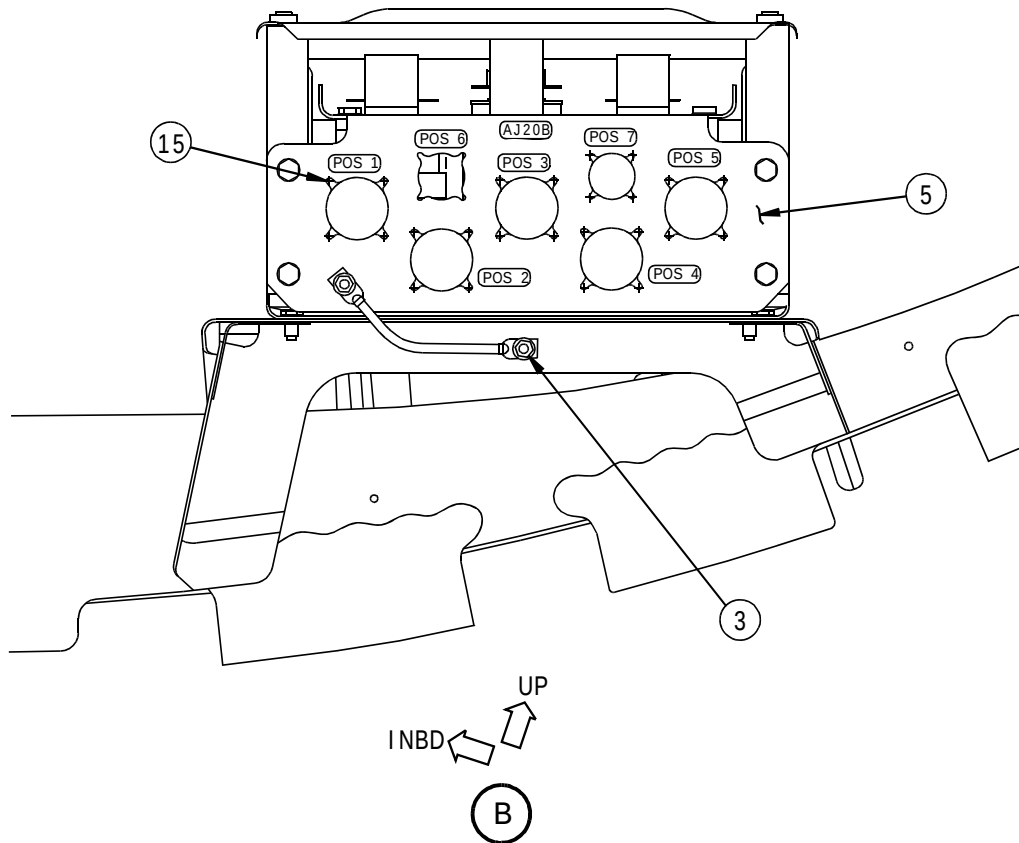
432074

FIGURE 11: J20 JUNCTION BOX - REMOVAL AND SALVAGE
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This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 11: J20 JUNCTION BOX - REMOVAL AND SALVAGE
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE: Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Disconnect	Connector	-	-	from the J20 Junction Box.
2	Remove	Cover Plate	284A3203-()	1	Rotate the 6 x 1/4 turn fasteners to remove the J20 Junction Box cover plate. Discard this item.
3	Remove	Nut Washer Jumper	BACN10YR3CD NAS1149D0316H BACJ40A20-6	1 1 1	at the structure position. Discard the nut and washer.
4	Remove	Fasteners	-	6	from the J20 Junction Box Plate B. Discard these items.
5	Remove	J20 Junction Box Plate B	-	1	
6	Remove / Keep	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	that attaches the J20 Junction Box to the structure.
7	Remove	J20 Junction Box	284A1203-()	1	Discard this item.
8	Remove / Keep	Relay	BACR13CD2	4	R361, R551, R682, R735. Refer to SWPM 20-81-22., as an accepted procedure. (a)
9	Remove / Keep	Relay	530740-3001	1	M2033. Refer to SWPM 20-81-22., as an accepted procedure.
10	Remove / Keep	Relay	BACR13CE2	4	R711, R713, R714, R729. Refer to SWPM 20-81-22., as an accepted procedure.
11	Remove / Keep	Relay	KL-D4N	1	R567. Refer to SWPM 20-81-22., as an accepted procedure.
12	Remove / Keep	Relay	TDH-7101-3003	1	R645. Refer to SWPM 20-81-22., as an accepted procedure.
13	Remove / Keep	Relay	BACR13CG2AB	7	R588, R590, R591, R595, R596, R708, R710. Refer to SWPM 20-81-22., as an accepted procedure.
14	Remove / Keep	Relay	JL-D4N	1	R712. Refer to SWPM 20-81-22., as an accepted procedure.
15	Remove	Screw Washer Nut	BACN10YR04CD NAS1149DN332J BACN10YR04CD	- - -	Discard these items.
16	Remove / Keep	Wire Bundle	-	1	with connectors and keep the wire bundle for later use. (b)
(a) Relays R361, R551, and R729 are not installed in all airplanes. If the relays are installed, remove for later use.					
(b) Discard the J20 Junction Box Plate B after all the parts are removed.					

FIGURE 11: J20 JUNCTION BOX - REMOVAL AND SALVAGE

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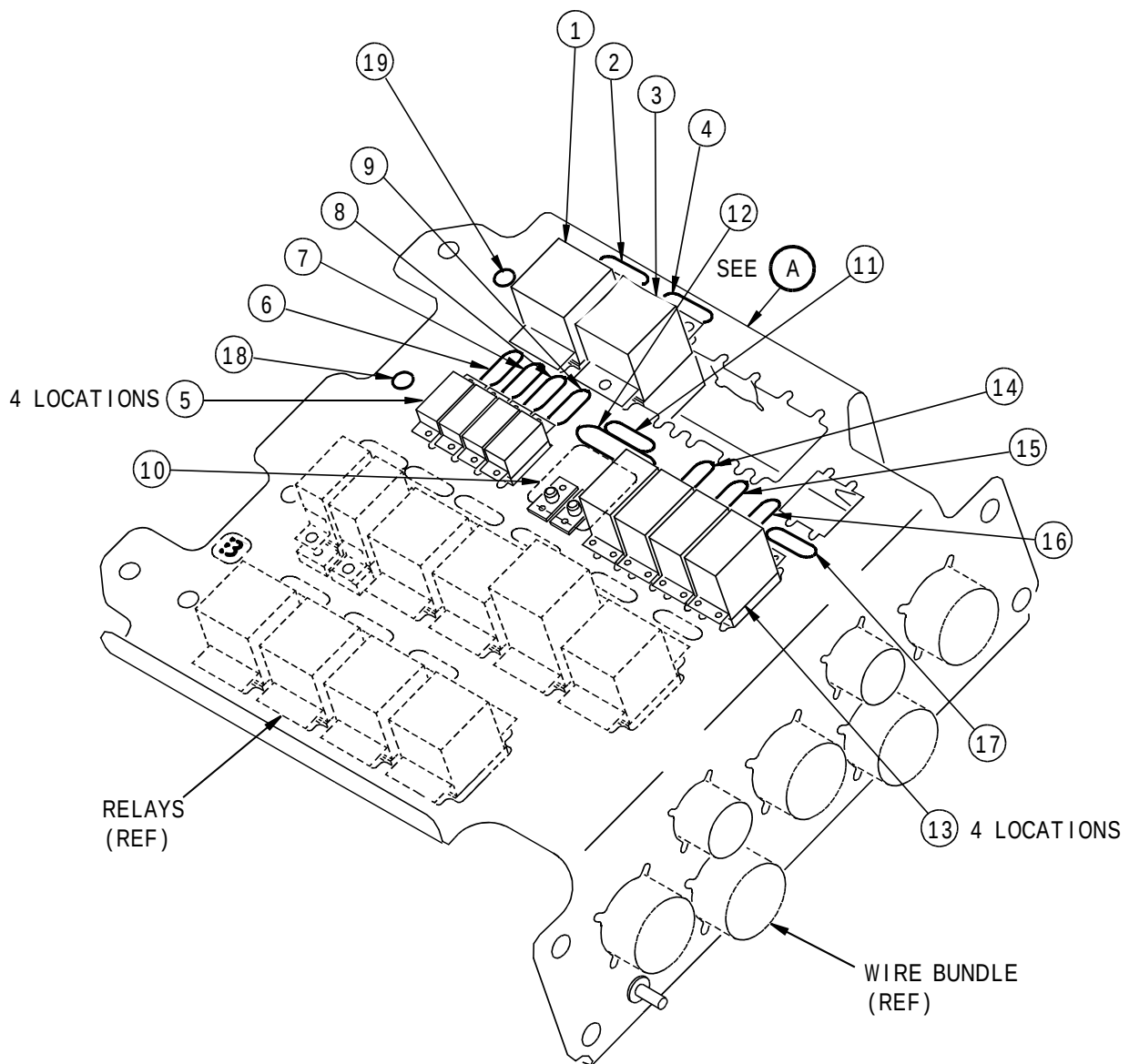
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FIGURE 12: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



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FIGURE 12: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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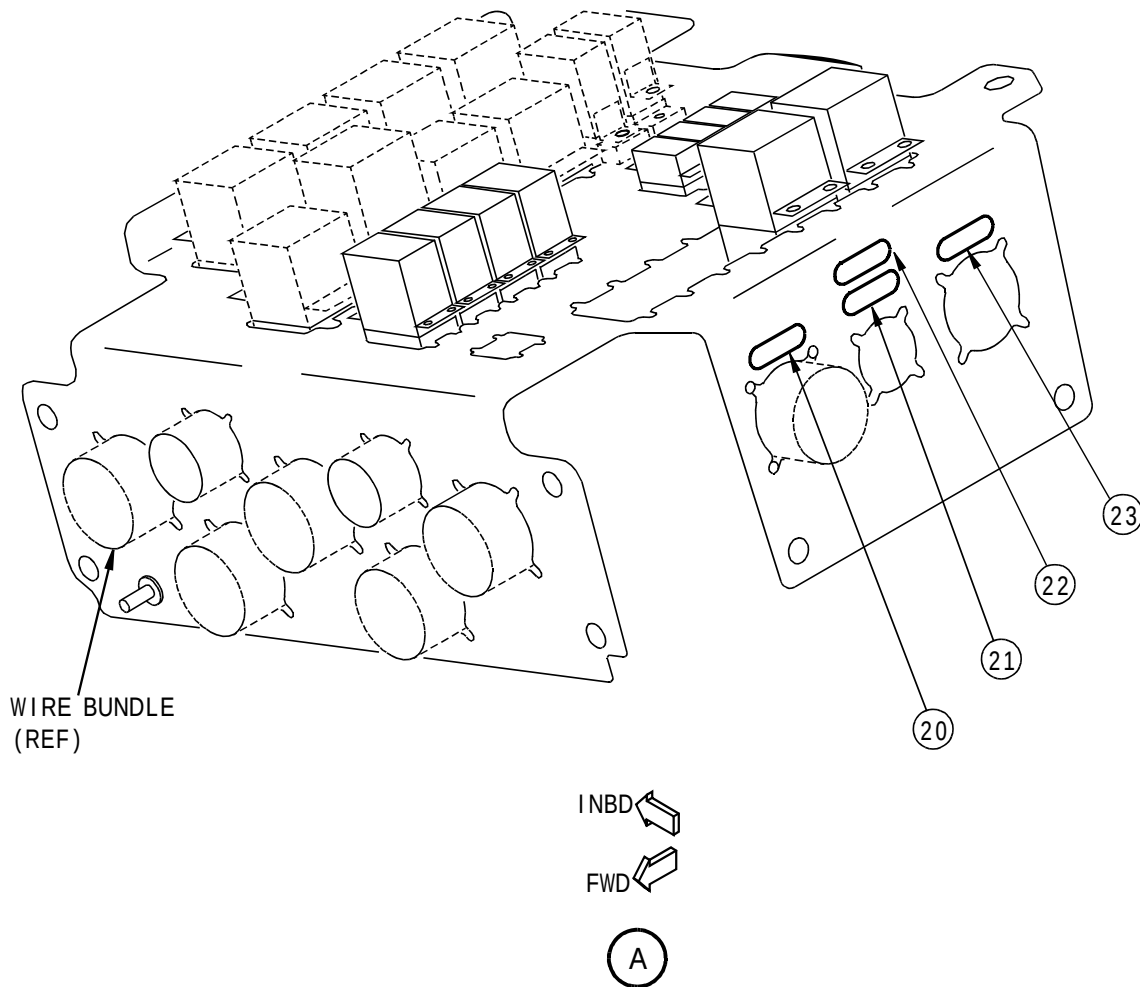
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This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 12: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	BACR13CG2AB	1	R590. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7109	1	R590. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	TDH-8116-1502	1	R934. Refer to SWPM 20-81-22.
4	Install (New)	Marker	BAC27DEX7087	1	R934. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CD2	4	R361, R551, R682, R735. Refer to SWPM 20-81-22., as an accepted procedure. (a)
6	Install (New)	Marker	BAC27DEX7114	1	R682. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7121	1	R735. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7106	1	R551. Refer to SOPM 20-50-05, as an accepted procedure. (b)
9	Install (New)	Marker	BAC27DEX7105	1	R361. Refer to SOPM 20-50-05, as an accepted procedure. (b)
10	Install (Kept)	Relay	530740-3001	1	M2033. Refer to SWPM 20-81-22.
11	Install (New)	Marker	BAC27DEX7104	1	M2033. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7096	1	FARSIDE. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (Kept)	Relay	BACR13CE2	4	R711, R713, R714, R729. Refer to SWPM 20-81-22., as an accepted procedure. (a)
14	Install (New)	Marker	BAC27DEX6960	1	R729. Refer to SOPM 20-50-05, as an accepted procedure. (b)
15	Install (New)	Marker	BAC27DEX7117	1	R711. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX7119	1	R713. Refer to SOPM 20-50-05, as an accepted procedure.
17	Install (New)	Marker	BAC27DEX7120	1	R714. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 12: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
19	Install (New)	Marker	BAC27DEX7095	1	D. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27DEX7103	1	AJ20D. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
(a) Relays R361, R551, and R729 are not installed in all airplanes. If the relays were salvaged from the existing J20 Junction Box Plate B, install as shown.					
(b) If the applicable relay was salvaged from the existing J20 Junction Box Plate B, install the marker as shown. If the applicable relay is not installed on the airplane, discard the marker.					

FIGURE 12: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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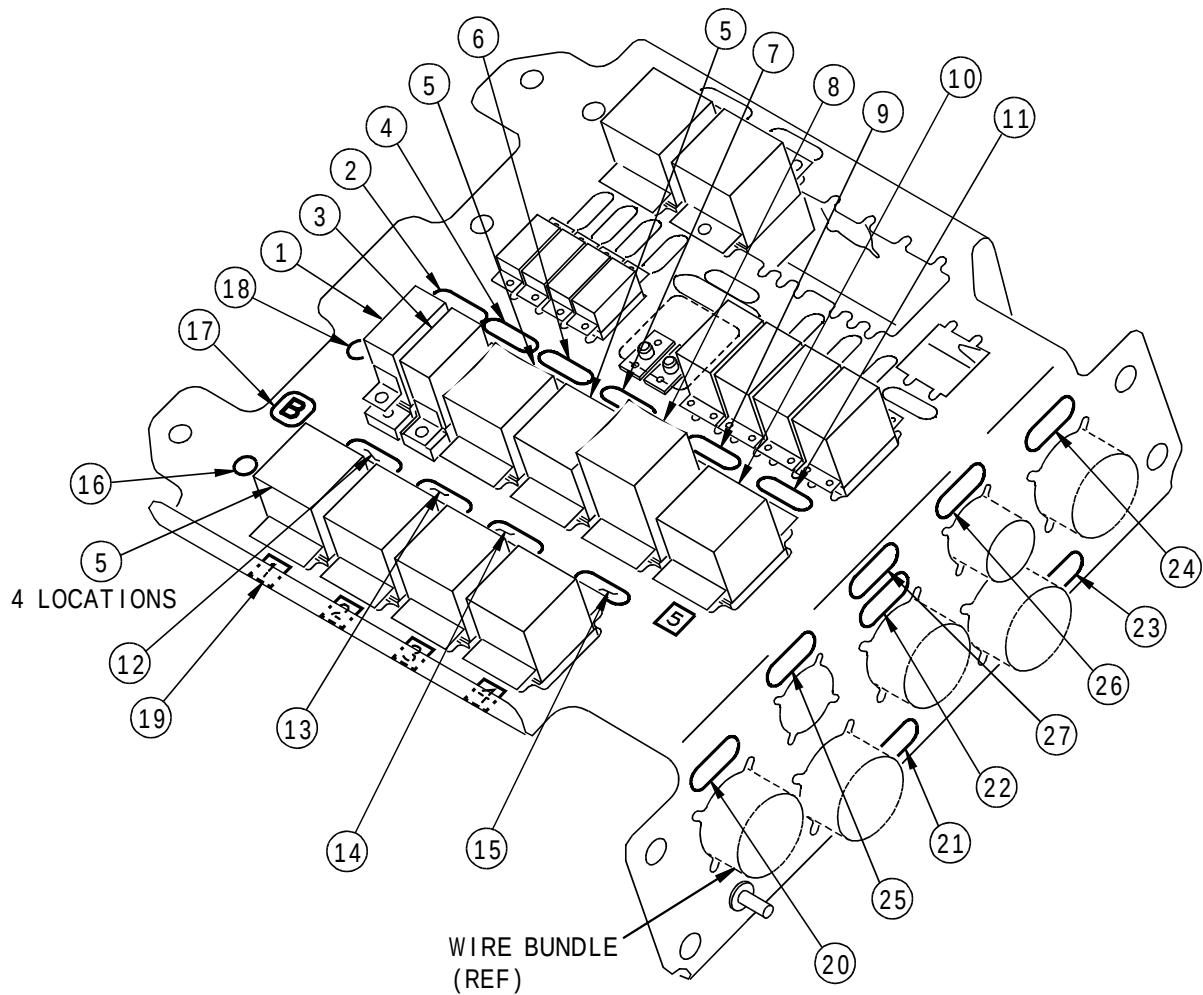
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FIGURE 13: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 13: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	JL-D4N	1	R712. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7118	1	R712. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	BACR13CJ2	1	R936. Refer to SWPM 20-81-22., as an accepted procedure. (a)
4	Install (New)	Marker	BAC27DEX7089	1	R936. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CG2AB	6	R588, R591, R595, R596, R708, R710. Refer to SWPM 20-81-22., as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7116	1	R710. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7115	1	R708. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (Kept)	Relay	TDH-7101-3003	1	R645. Refer to SWPM 20-81-22., as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7113	1	R645. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (Kept)	Relay	KL-D4N	1	R567. Refer to SWPM 20-81-22., as an accepted procedure.
11	Install (New)	Marker	BAC27DEX7107	1	R567. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7111	1	R595. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7112	1	R596. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27DEX7110	1	R591. Refer to SOPM 20-50-05, as an accepted procedure.
15	Install (New)	Marker	BAC27DEX7108	1	R588. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 13: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
17	Install (New)	Marker	BAC27NEX0174	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27NEX0938	1	Positions 1 through 5. Discard the remainder. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
24	Install (New)	Marker	BAC27NEX0708	1	POS 5. Refer to SOPM 20-50-05, as an accepted procedure.
25	Install (New)	Marker	BAC27NEX0709	1	POS 6. Refer to SOPM 20-50-05, as an accepted procedure.
26	Install (New)	Marker	BAC27NEX0710	1	POS 7. Refer to SOPM 20-50-05, as an accepted procedure.
27	Install (New)	Marker	BAC27DEX6977	1	AJ20B. Refer to SOPM 20-50-05, as an accepted procedure.

(a) For Airplanes that have a relay installed in the location shown before this service bulletin is done install relay R936 in one of the open locations available as necessary.

NOTE: This service bulletin is affected by an FAA Airworthiness Directive. If the relay is installed in a different location to the one shown in this service bulletin, then an Alternative Means Of Compliance (AMOC) is required from the Operators local regulatory agency.

FIGURE 13: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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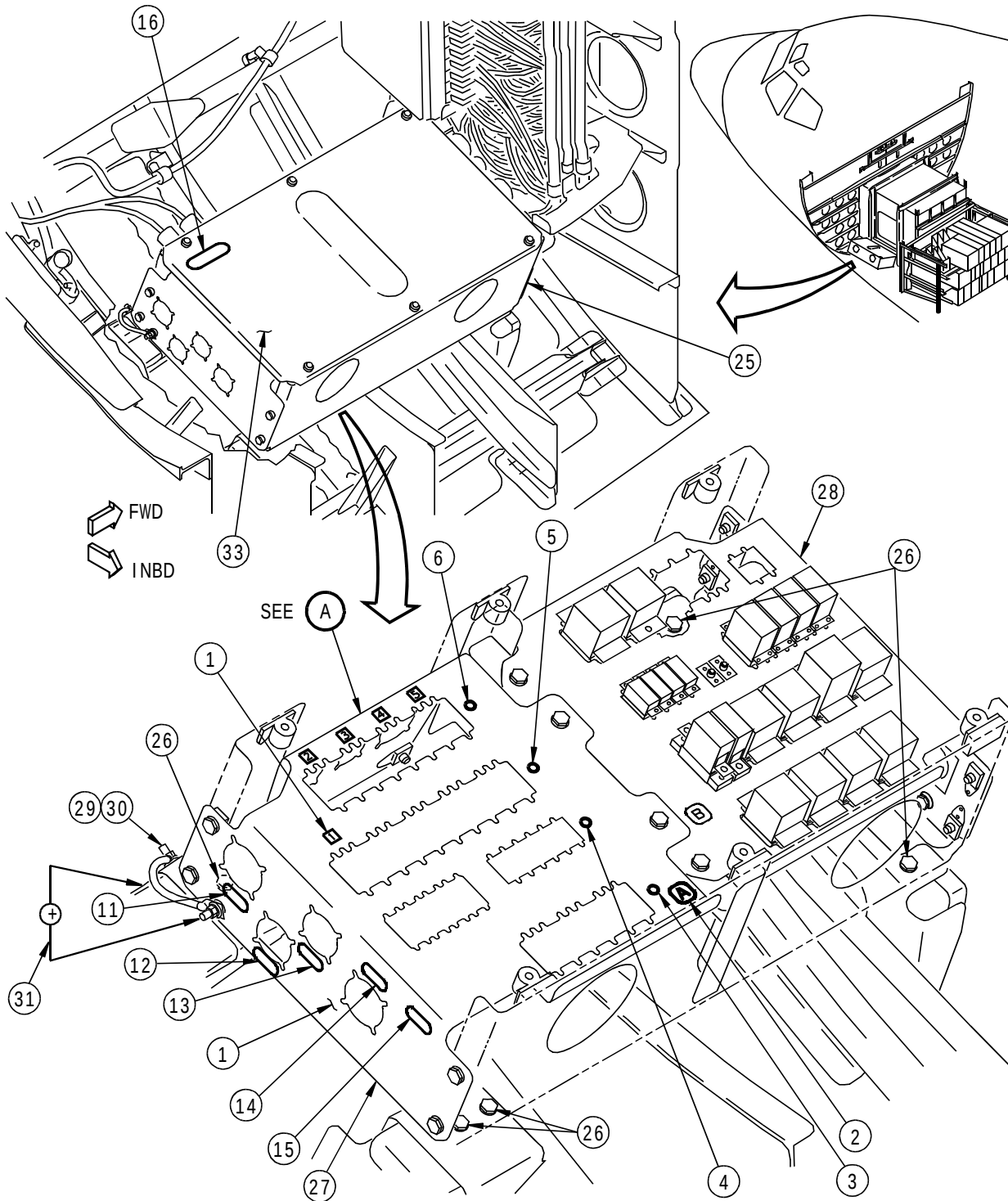
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FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION



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FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

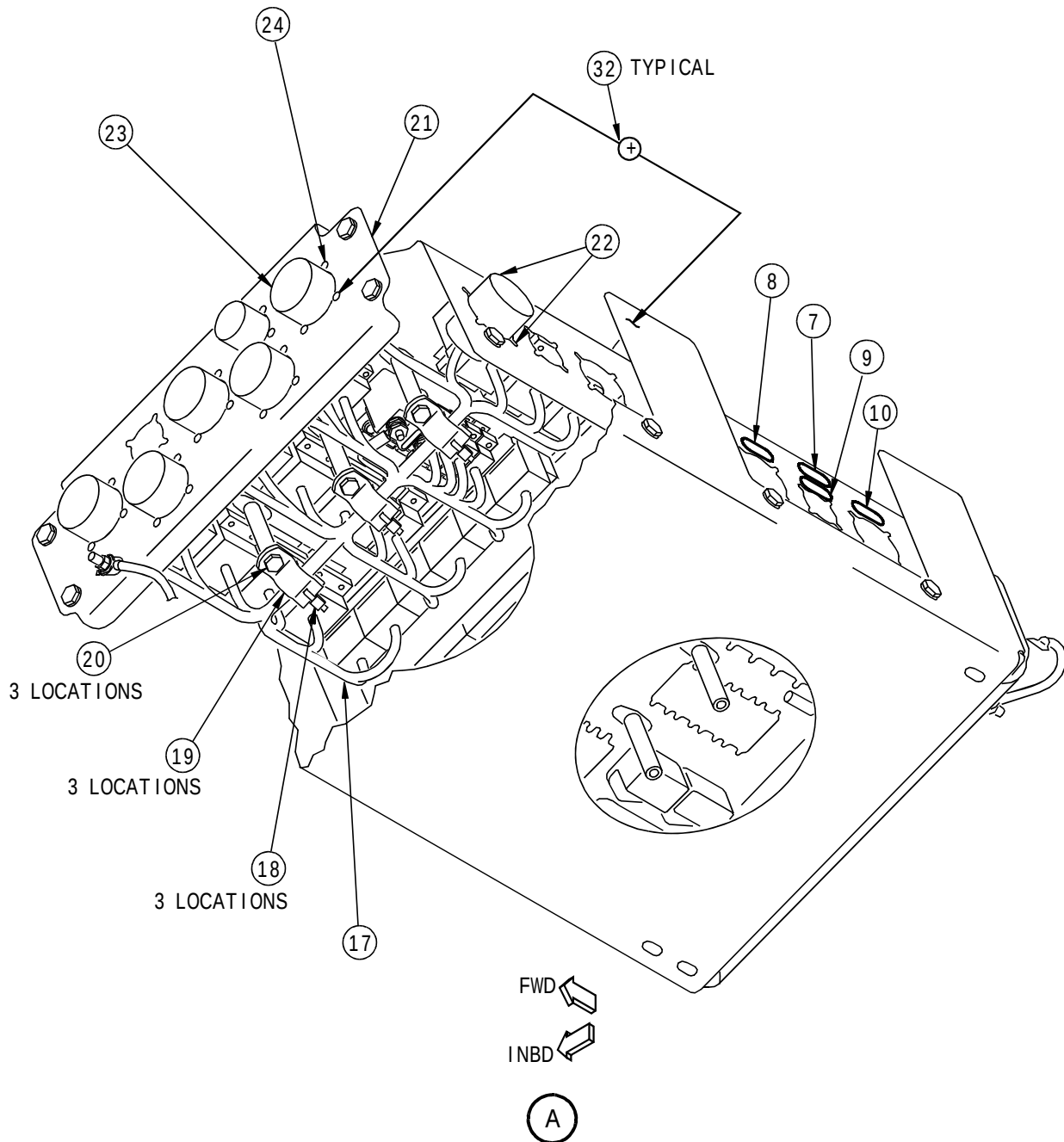
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This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 15, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	Marker	BAC27NEX0938	1	Position 1 through 5. Discard the remainder. Refer to SOPM 20-50-05, as an accepted procedure.
2	Install (New)	Marker	BAC27NEX0173	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
4	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7095	1	D. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7102	1	AJ20C. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
15	Install (New)	Marker	BAC27DEX6947	1	AJ20A. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX5728	1	J20 BOX. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
17	Install (Kept)	Wire Bundle	-	-	after the wiring changes are done.
18	Install (New)	Strap	BACS38K5	3	
19	Install (New)	Clamp	287T0011-1 or 287T0011-2 or 287T0011-3	3	
20	Install (New)	Bolt	BACS12HN3-10	3	
21	Identify	J20 Junction Box	284A1203-()	1	(a)
22	Install (New)	Connector Screw Washer Nut	- BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	1 4 4 4	
23	Install (Kept)	Connector	-	-	
24	Install (New)	Screw Washer Nut	BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	- - -	at each connector position when connector is present.
25	Install (New)	J20 Junction Box	284A2203-10	1	in position on structure.
26	Install (Kept)	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	to attach J20 Junction Box on structure.
27	Install (New)	J20 Junction Box Plate A	284A3203-29	1	into position in the J20 Junction Box.
28	Install (New)	J20 Junction Box Plate B	284A3203-31	1	into position in the J20 Junction Box.
29	Put / Hold	Jumper	-	1	in position on structure.
30	Install (New)	Washer Nut	NAS1149D0316H BACN10YR3CD	1 1	
31	Measure	Resistance	-	1	between J20 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
32	Measure	Resistance	-	-	of all bonded connectors. (b)

FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
33	Install (New)	Cover Plate	284A3203-35	1	Rotate the 6 x 1/4 turn fasteners to install the J20 Junction Box cover plate.
(a) Part-mark the J20 Junction Box as shown below: 284A1203-11 as 284A9200-52, 284A1203-101 as 284A9200-52, 284A1203-12 as 284A9200-53, 284A1203-102 as 284A9200-53, 284A1203-13 as 284A9200-54, 284A1203-103 as 284A9200-54, and 284A1203-110 as 284A9200-55. Refer to SOPM 20-50-10, as an accepted procedure.					
(b) Measure the resistance of all bonded connectors on the J20 Junction Box between the connector flange and the J20 Junction Box structure. Connectors D40634J, D40641J, D40642J, D40892J, and D40894J are bonded. Not all airplanes have all connectors. Refer to SWPM 20-20-00, as an accepted procedure. Make sure the maximum resistance is not more than 0.001 ohm.					

FIGURE 14: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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FIGURE 15: J20 JUNCTION BOX - REMOVAL AND SALVAGE

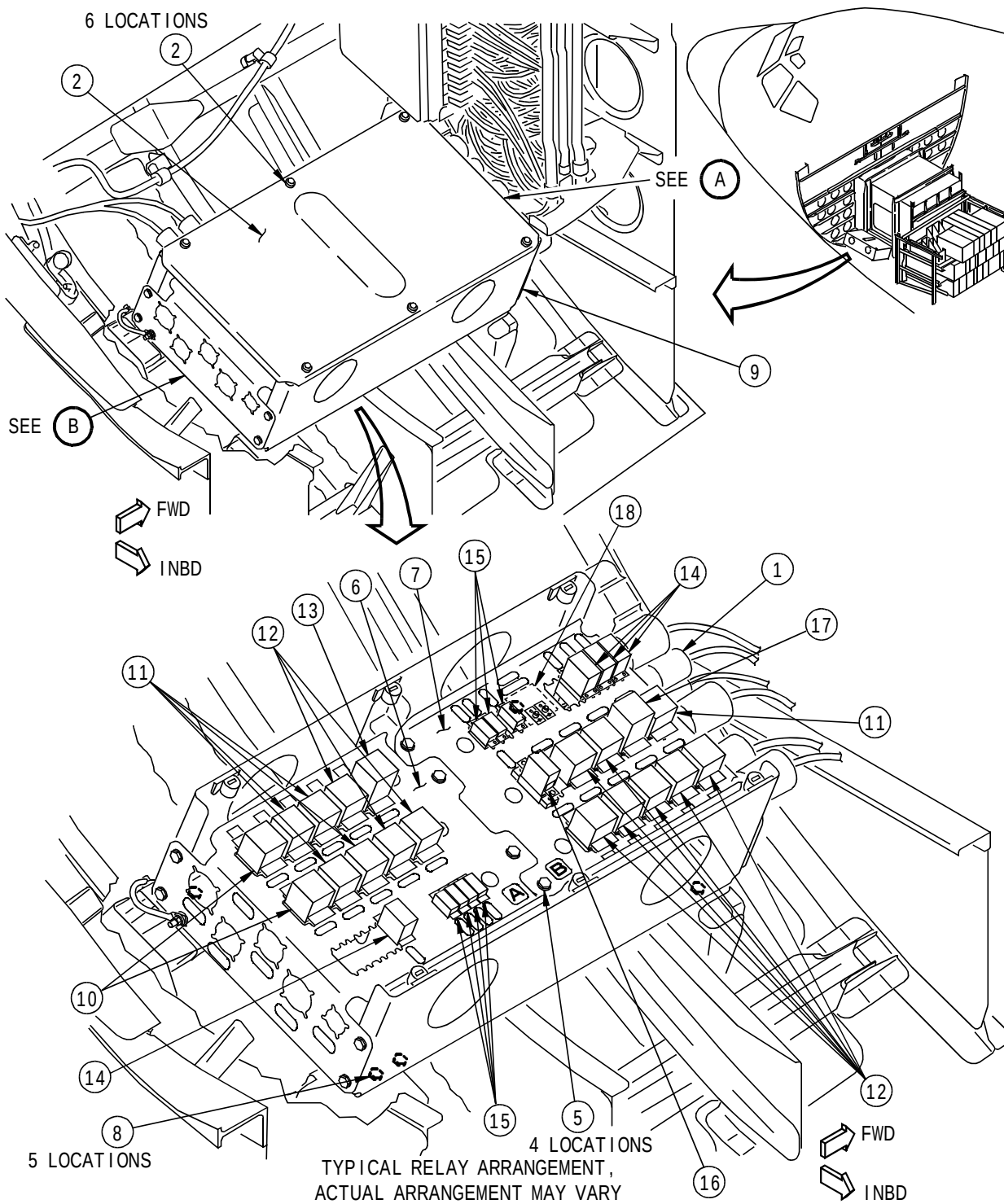


FIGURE 15: J20 JUNCTION BOX - REMOVAL AND SALVAGE

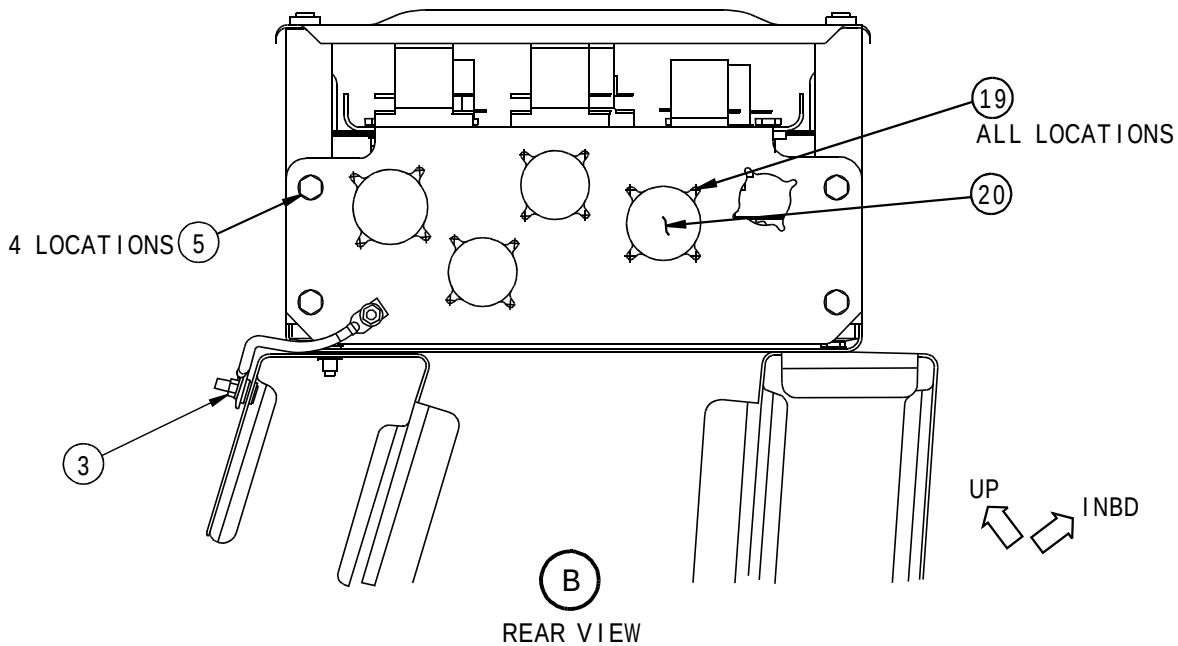
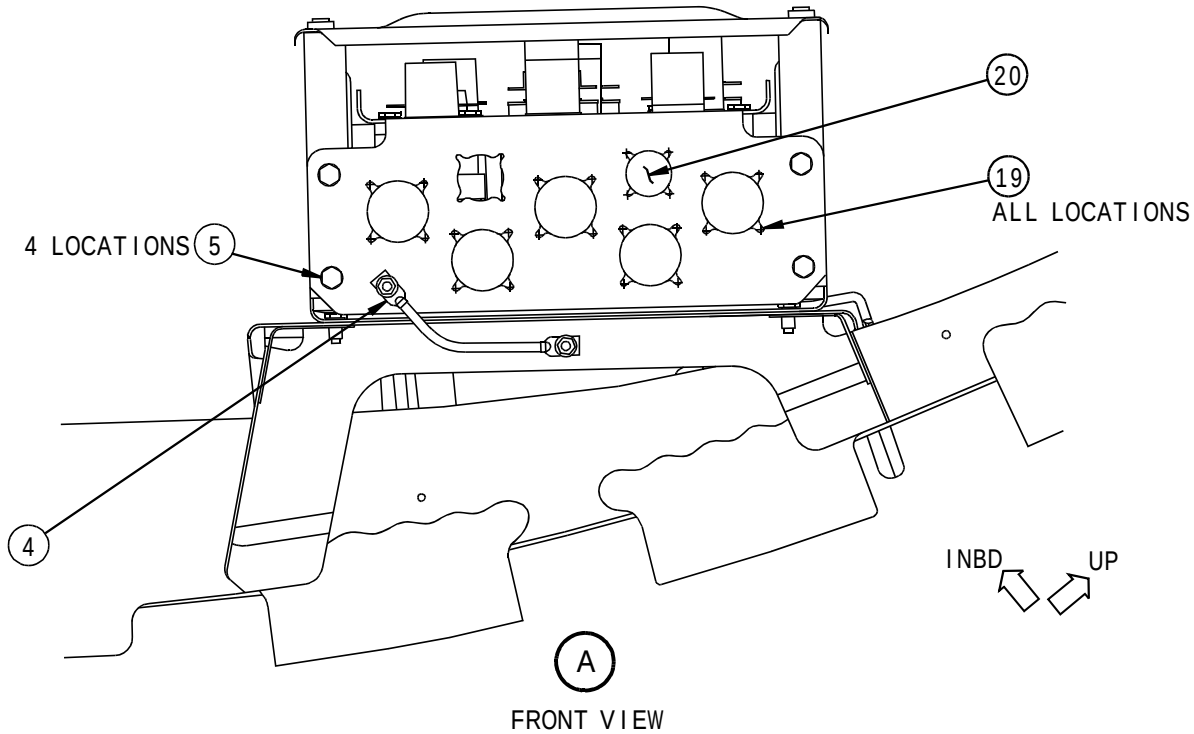
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 15: J20 JUNCTION BOX - REMOVAL AND SALVAGE
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

Not all relays are installed in all airplanes.

STEP	TASK	NAME	PART NUMBER	QTY	NOTES
1	Disconnect	Connector	-	-	from J20 Junction Box.
2	Remove	Cover Plate	284A3203-()	1	Rotate the 6 x 1/4 turn fasteners to remove the J20 Junction Box cover plate. Discard this item.
3	Remove	Washer Nut Jumper	NAS1149D0316H BACN10YR3CD BACJ40A20-6	1 1 1	at the structure position. Discard the nut and washer.
4	Remove	Washer Nut Jumper	NAS1149D0316H BACN10YR3CD BACJ40A20-6	1 1 1	at the rear of the J20 Junction Box. Discard the nut and washer.
5	Remove	Fasteners	-	12	Discard these items.
6	Remove	J20 Junction Box Plate A	-	1	(b)
7	Remove	J20 Junction Box Plate B	-	1	(b)
8	Remove / Keep	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	
9	Remove	J20 Junction Box	284A1203-()	1	Discard this item.
10	Remove / Keep	Relay	BACR13CG2A	2	R875, R876. (a)
11	Remove / Keep	Relay	KD-D4N	5	R567, R790, R791, R793, R794. (a)
12	Remove / Keep	Relay	BACR13CG2AB	10	R588, R590, R591, R595, R596, R708, R710, R792, R795, R819. (a)
13	Remove / Keep	Relay	TDH-7101-5001	1	R877. (a)
14	Remove / Keep	Relay	BACR13CE2	4	R711, R713, R714, R729. (a)
15	Remove / Keep	Relay	BACR13CD2	7	R361, R682, R735, R862, R863, R864, R907. (a)
16	Remove / Keep	Relay	JL-D4N	1	R712
17	Remove / Keep	Relay	TDH-7101-3003	1	R645
18	Remove / Keep	Relay	530740-3001	1	M2033
19	Remove	Screw Washer Nut	BACS12HN04-5 NAS1149DN332J BACN10YR04CD	- - -	Discard these items.

FIGURE 15: J20 JUNCTION BOX - REMOVAL AND SALVAGE

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STEP	TASK	NAME	PART NUMBER	QTY	NOTES
20	Remove / Keep	Wire Bundle	-	1	with electrical connectors attached and keep the wire bundle for later use.
(a) Relays R361, R729, R790, R791, R792, R793, R794, R795, R819, R862, R863, R864, R875, R876, R877, and R907 are not installed in all airplanes. If the relays are installed, remove for later use.					
(b) Discard the J20 Junction Box Plate A and Plate B after all the parts are removed.					

FIGURE 15: J20 JUNCTION BOX - REMOVAL AND SALVAGE

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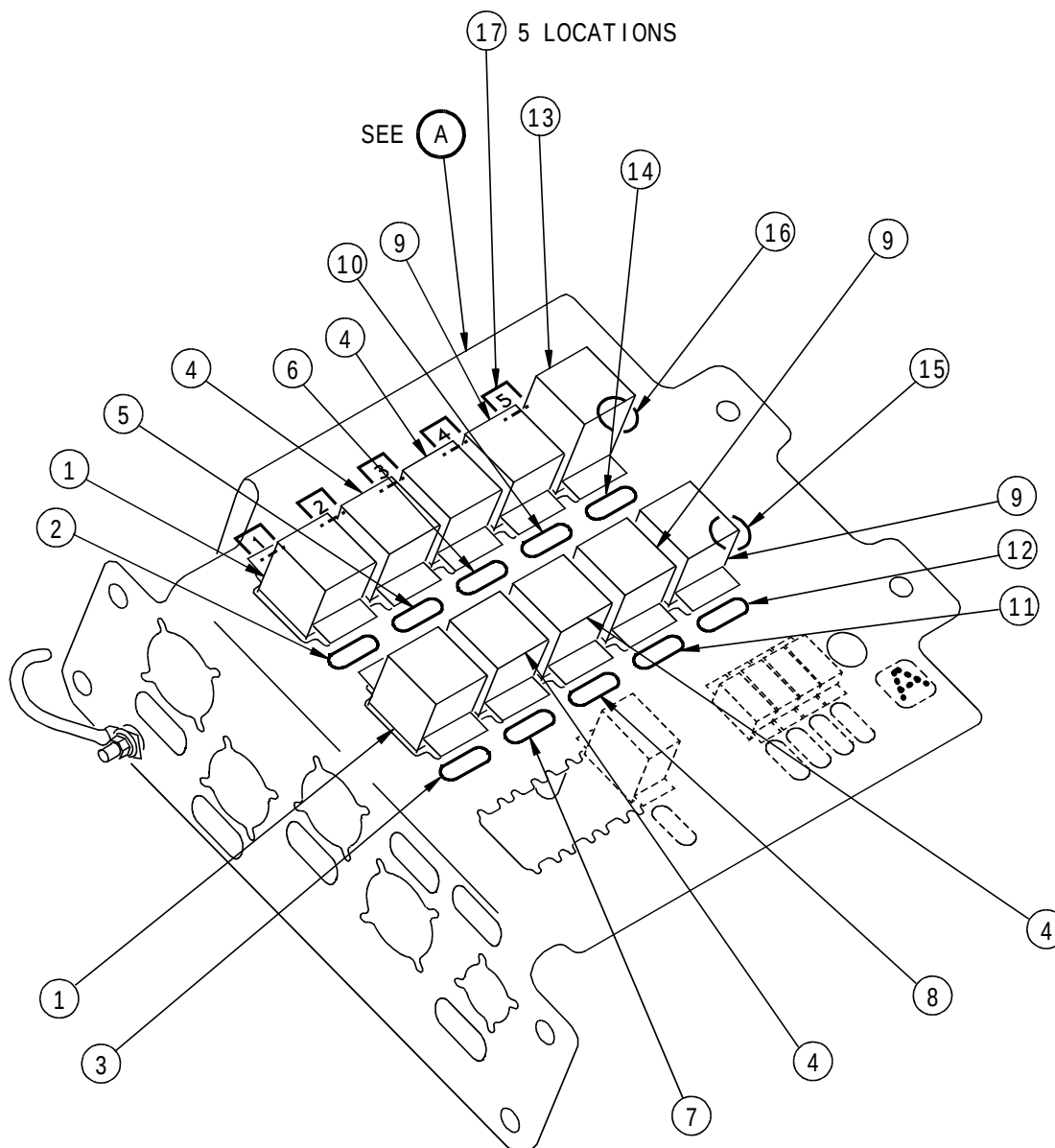
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FIGURE 16: J20 JUNCTION BOX PLATE A - MARKER AND RELAY INSTALLATION



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FIGURE 16: J20 JUNCTION BOX PLATE A - MARKER AND RELAY INSTALLATION

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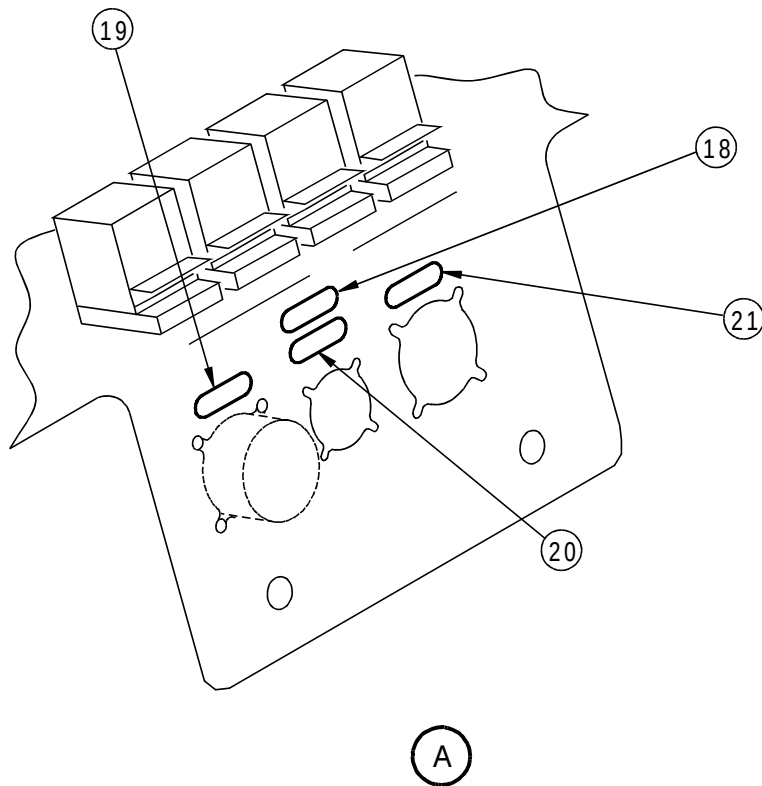
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 16: J20 JUNCTION BOX PLATE A - MARKER AND RELAY INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate A part number 284A3203-38.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate A.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	BACR13CG2A	2	R875, R876. Refer to SWPM 20-81-22., as an accepted procedure. (a)
2	Install (New)	Marker	BAC27DEX6971	1	R875. Refer to SOPM 20-50-05, as an accepted procedure. (b)
3	Install (New)	Marker	BAC27DEX6972	1	R876. Refer to SOPM 20-50-05, as an accepted procedure. (b)
4	Install (Kept)	Relay	KD-D4N	4	R790, R791, R793, R794. Refer to SWPM 20-81-22., as an accepted procedure. (a)
5	Install (New)	Marker	BAC27DEX6965	1	R794. Refer to SOPM 20-50-05, as an accepted procedure. (b)
6	Install (New)	Marker	BAC27DEX6964	1	R793. Refer to SOPM 20-50-05, as an accepted procedure. (b)
7	Install (New)	Marker	BAC27DEX6962	1	R791. Refer to SOPM 20-50-05, as an accepted procedure. (b)
8	Install (New)	Marker	BAC27DEX6961	1	R790. Refer to SOPM 20-50-05, as an accepted procedure. (b)
9	Install (Kept)	Relay	BACR13CG2AB	3	R792, R795, R819. Refer to SWPM 20-81-22., as an accepted procedure. (a)
10	Install (New)	Marker	BAC27DEX6963	1	R792. Refer to SOPM 20-50-05, as an accepted procedure. (b)
11	Install (New)	Marker	BAC27DEX6966	1	R795. Refer to SOPM 20-50-05, as an accepted procedure. (b)
12	Install (New)	Marker	BAC27DEX6967	1	R819. Refer to SOPM 20-50-05, as an accepted procedure. (b)
13	Install (Kept)	Relay	TDH-7101-5001	1	R877. Refer to SWPM 20-81-22., as an accepted procedure. (a)
14	Install (New)	Marker	BAC27DEX6973	1	R877. Refer to SOPM 20-50-05, as an accepted procedure. (b)
15	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 16: J20 JUNCTION BOX PLATE A - MARKER AND RELAY INSTALLATION

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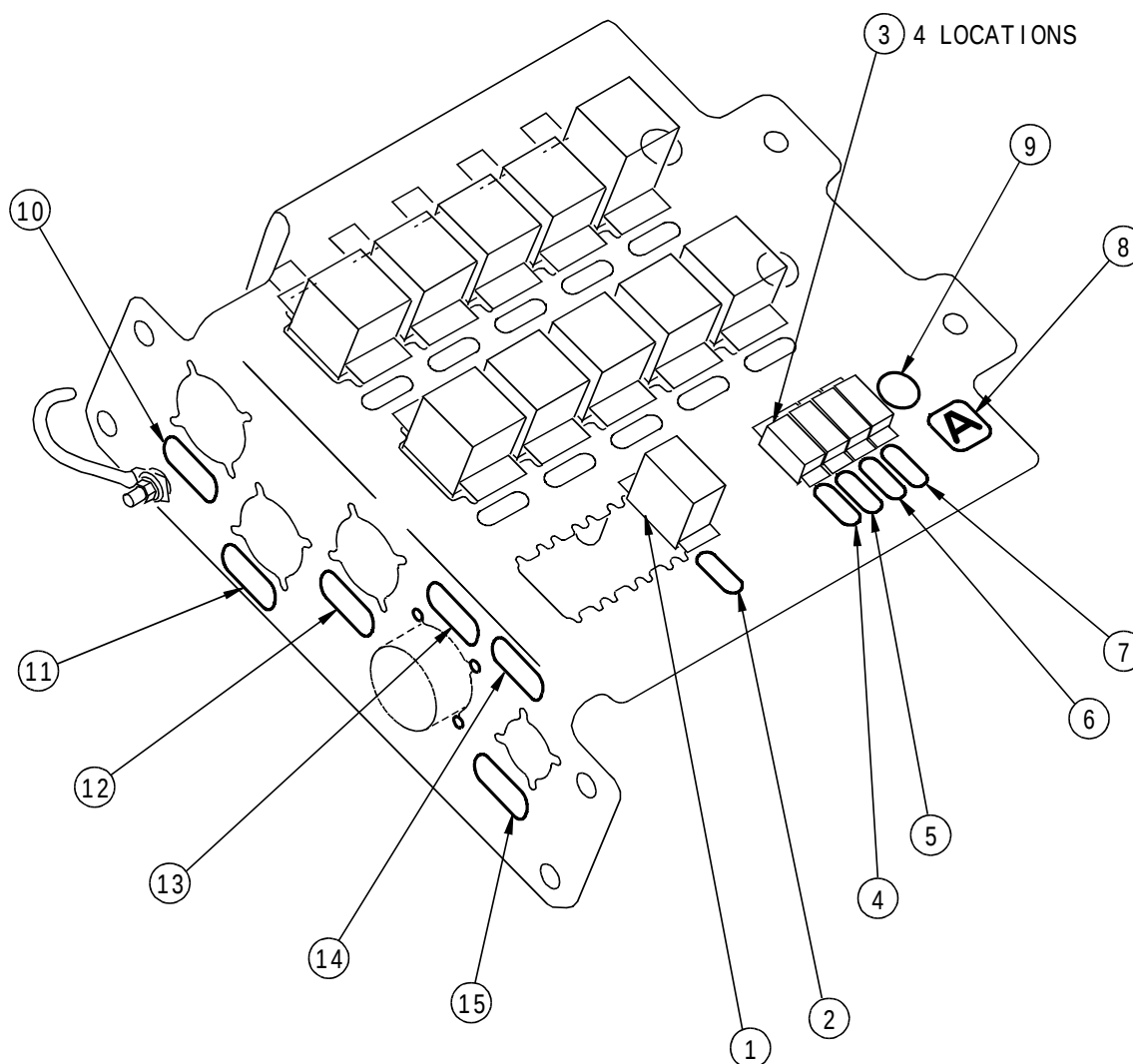
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
16	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.
17	Install (New)	Marker	BAC27NEX0938	1	Positions 1 through 5. Discard the remainder. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27DEX7102	1	AJ20C. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
(a) Relays R790, R791, R792, R793, R794, R795, R819, R875, R876, and R877 are not installed in all airplanes. If the relays were salvaged from the existing J20 Junction Box Plate A, install as shown.					
(b) If the applicable relay was salvaged from the existing J20 Junction Box Plate A, install the marker as shown. If the applicable relay is not installed on the airplane, discard the marker.					

FIGURE 16: J20 JUNCTION BOX PLATE A - MARKER AND RELAY INSTALLATION

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ALERT**ALERT****FIGURE 17: J20 JUNCTION BOX LOWER PLATE A - MARKER AND RELAY INSTALLATION**

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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 17: J20 JUNCTION BOX LOWER PLATE A - MARKER AND RELAY INSTALLATION

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate A part number 284A3203-38.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate A.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	BACR13CE2	1	R729. Refer to SWPM 20-81-22., as an accepted procedure. (a)
2	Install (New)	Marker	BAC27DEX6960	1	R729. Refer to SOPM 20-50-05, as an accepted procedure. (b)
3	Install (Kept)	Relay	BACR13CD2	4	R862, R863, R864, R907. Refer to SWPM 20-81-22., as an accepted procedure. (a)
4	Install (New)	Marker	BAC27DEX6976	1	R907. Refer to SOPM 20-50-05, as an accepted procedure. (b)
5	Install (New)	Marker	BAC27DEX6970	1	R864. Refer to SOPM 20-50-05, as an accepted procedure. (b)
6	Install (New)	Marker	BAC27DEX6969	1	R863. Refer to SOPM 20-50-05, as an accepted procedure. (b)
7	Install (New)	Marker	BAC27DEX6968	1	R862. Refer to SOPM 20-50-05, as an accepted procedure. (b)
8	Install (New)	Marker	BAC27NEX0173	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27NEX6947	1	AJ20A. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 17: J20 JUNCTION BOX LOWER PLATE A - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
15	Install (New)	Marker	BAC27NEX0708	1	POS 5. Refer to SOPM 20-50-05, as an accepted procedure.
(a) Relays R729, R862, R863, R864, and R907 are not installed in all airplanes. If the relays were salvaged from the existing J20 Junction Box Plates A, install as shown.					
(b) If the applicable relay was salvaged from the existing J20 Junction Box Plates A, install the marker as shown. If the applicable relay is not installed on the airplane, discard the marker.					

FIGURE 17: J20 JUNCTION BOX LOWER PLATE A - MARKER AND RELAY INSTALLATION

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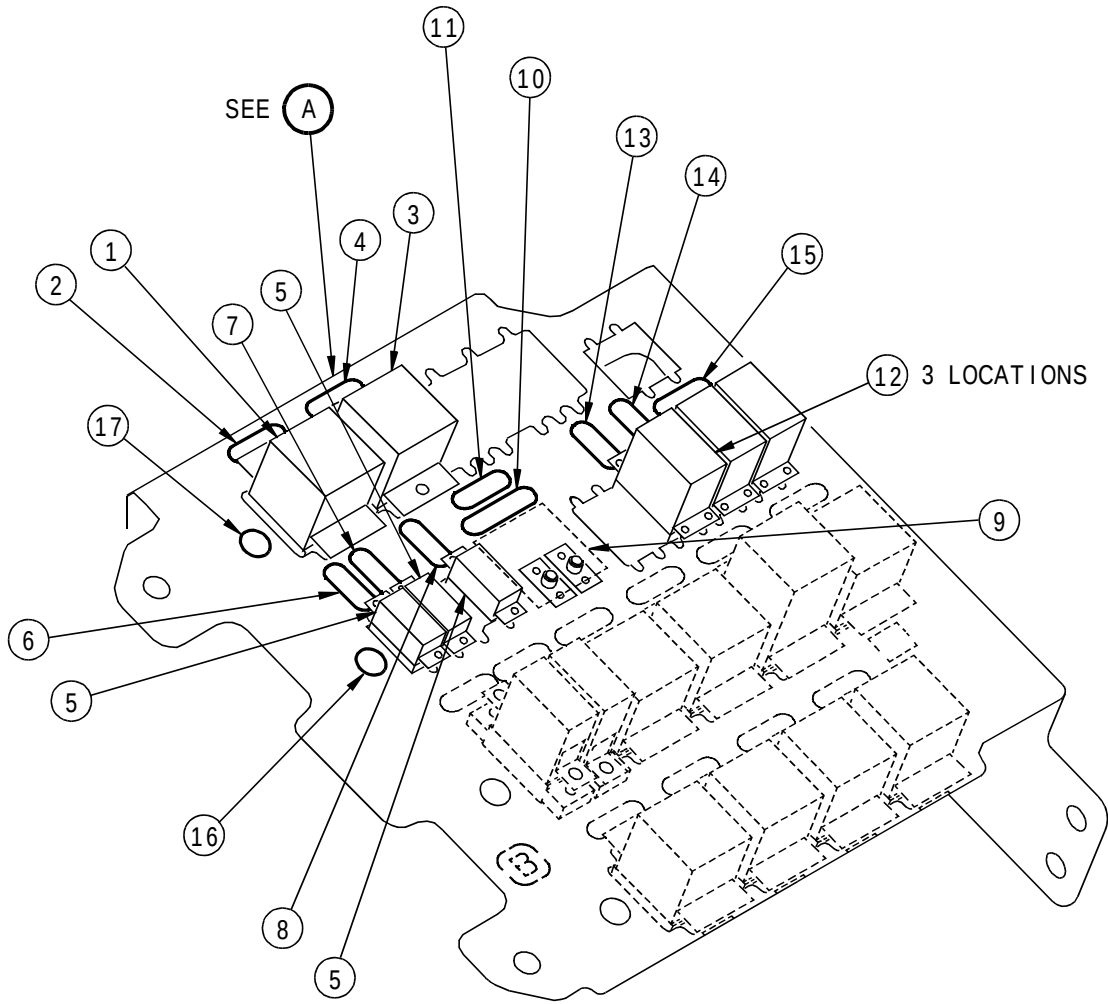
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FIGURE 18: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



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FIGURE 18: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

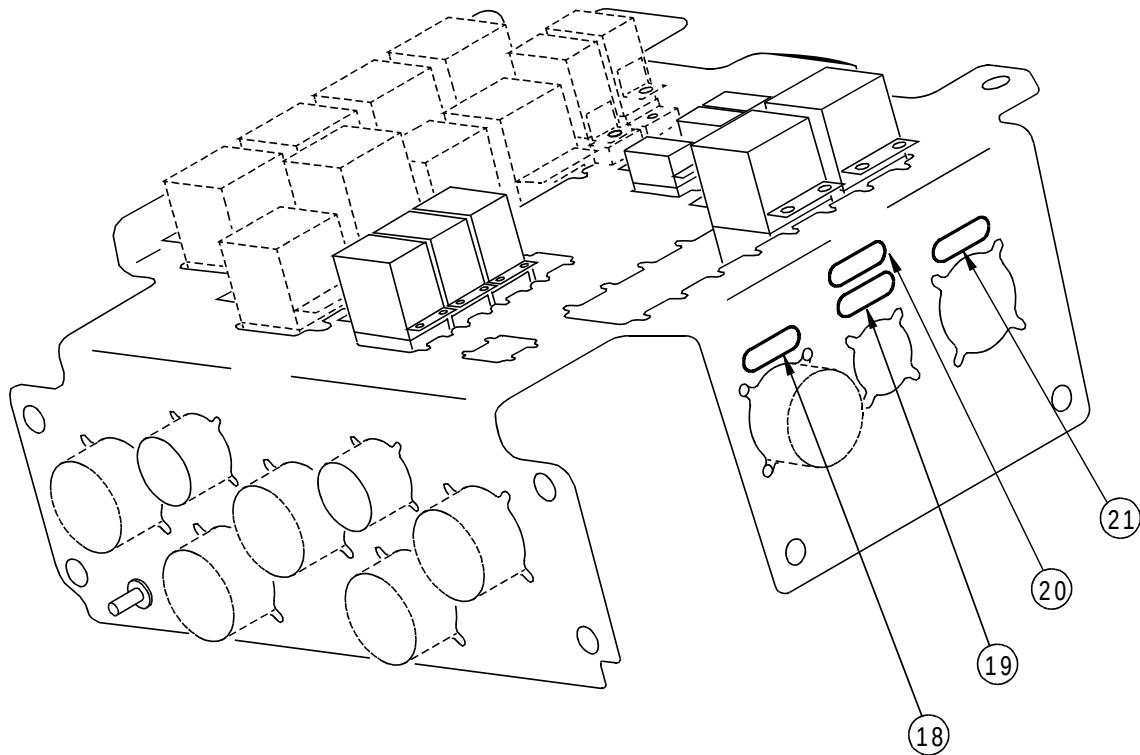
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 18: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	BACR13CG2AB	1	R590. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7109	1	R590. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	TDH-8116-1502	1	R934. Refer to SWPM 20-81-22., as an accepted procedure.
4	Install (New)	Marker	BAC27DEX7087	1	R934. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CD2	3	R361, R682, R735. Refer to SWPM 20-81-22., as an accepted procedure. (a)
6	Install (New)	Marker	BAC27DEX7114	1	R682. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7121	1	R735. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7105	1	R361. Refer to SOPM 20-50-05, as an accepted procedure. (b)
9	Install (Kept)	Relay	530740-3001	1	M2033. Refer to SWPM 20-81-22., as an accepted procedure.
10	Install (New)	Marker	BAC27DEX7096	1	FAR SIDE. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27DEX7104	1	M2033. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (Kept)	Relay	BACR13CE2	3	R711, R713, R714. Refer to SWPM 20-81-22., as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7117	1	R711. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27DEX7119	1	R713. Refer to SOPM 20-50-05, as an accepted procedure.
15	Install (New)	Marker	BAC27DEX7120	1	R714. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 18: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
16	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.
17	Install (New)	Marker	BAC27DEX7095	1	D. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27DEX7103	1	AJ20D. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
(a) Relay R361 is not installed in all airplanes. If the relay was salvaged from the existing J20 Junction Box Plate B, install as shown.					
(b) If the applicable relay was salvaged from the existing J20 Junction Box Plate B, install the marker as shown. If the applicable relay is not installed on the airplane, discard the marker.					

FIGURE 18: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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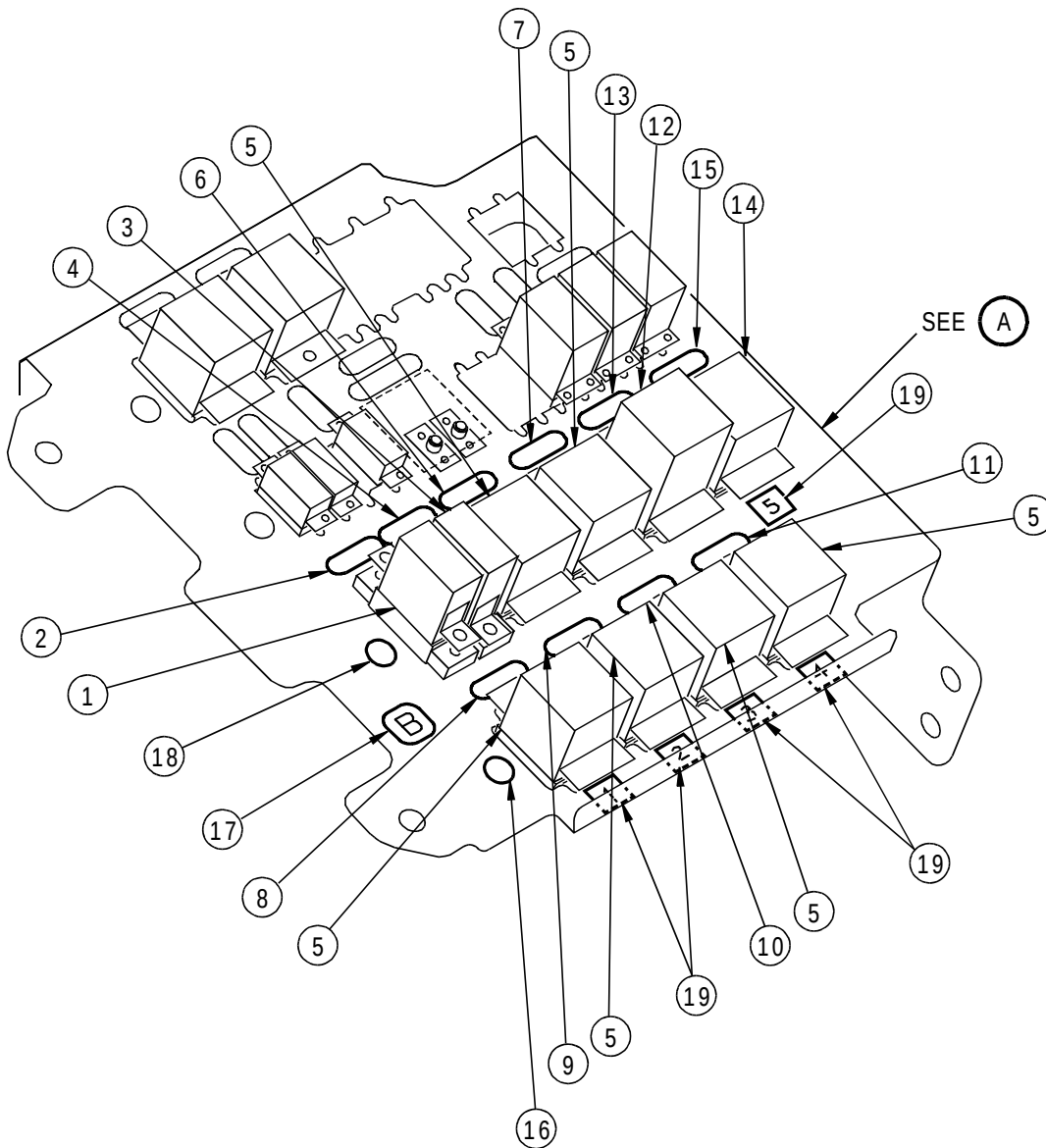
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FIGURE 19: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



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FIGURE 19: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

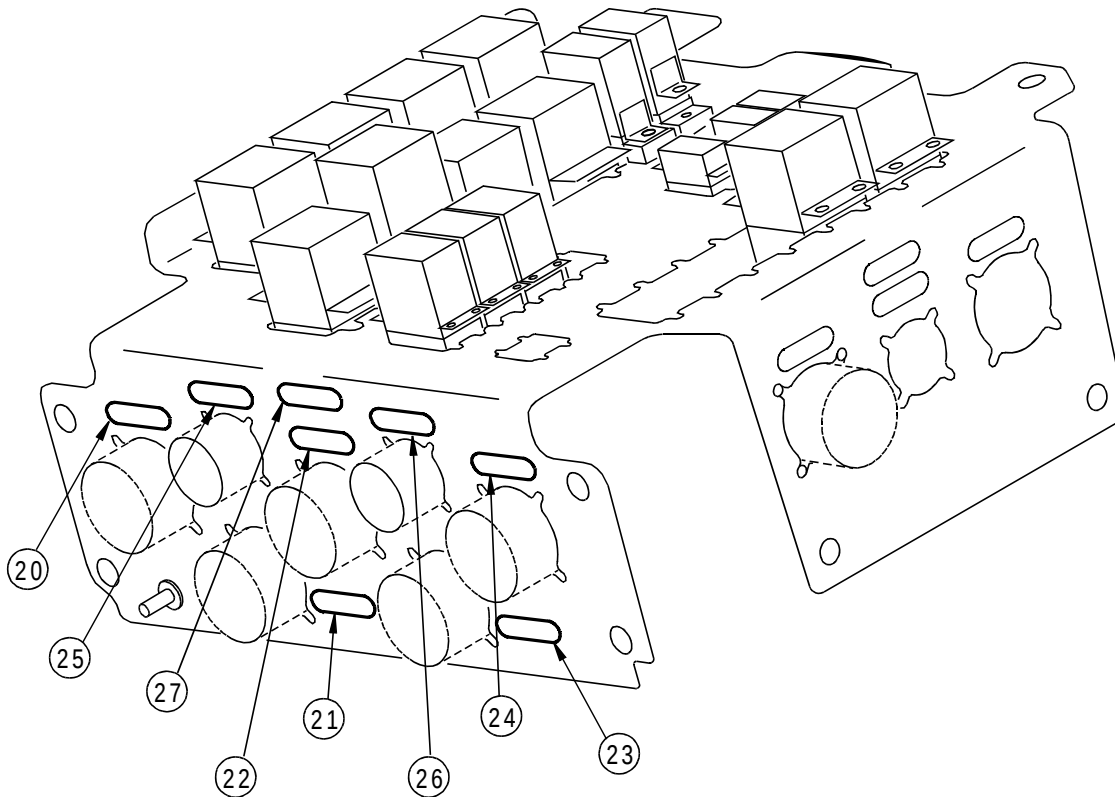
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 19: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	JL-D4N	1	R712. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7118	1	R712. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	BACR13CJ2	1	R936. Refer to SWPM 20-81-22., as an accepted procedure.
4	Install (New)	Marker	BAC27DEX7089	1	R936. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CG2AB	6	R588, R591, R595, R596, R708, R710. Refer to SWPM 20-81-22., as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7116	1	R710. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7115	1	R708. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7111	1	R595. Refer to SOPM 20-50-05, as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7112	1	R596. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Marker	BAC27DEX7110	1	R591. Refer to SOPM 20-50-05, as an accepted procedure.
11	Install (New)	Marker	BAC27DEX7108	1	R588. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (Kept)	Relay	TDH-7101-3003	1	R645. Refer to SWPM 20-81-22., as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7113	1	R645. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (Kept)	Relay	KL-D4N	1	R567. Refer to SWPM 20-81-22., as an accepted procedure.
15	Install (New)	Marker	BAC27DEX7107	1	R567. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.
17	Install (New)	Marker	BAC27NEX0174	1	B. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 19: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
18	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27NEX0938	1	Positions 1 through 5. Discard the remainder. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
24	Install (New)	Marker	BAC27NEX0708	1	POS 5. Refer to SOPM 20-50-05, as an accepted procedure.
25	Install (New)	Marker	BAC27NEX0709	1	POS 6. Refer to SOPM 20-50-05, as an accepted procedure.
26	Install (New)	Marker	BAC27NEX0710	1	POS 7. Refer to SOPM 20-50-05, as an accepted procedure.
27	Install (New)	Marker	BAC27DEX6977	1	AJ20B. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 19: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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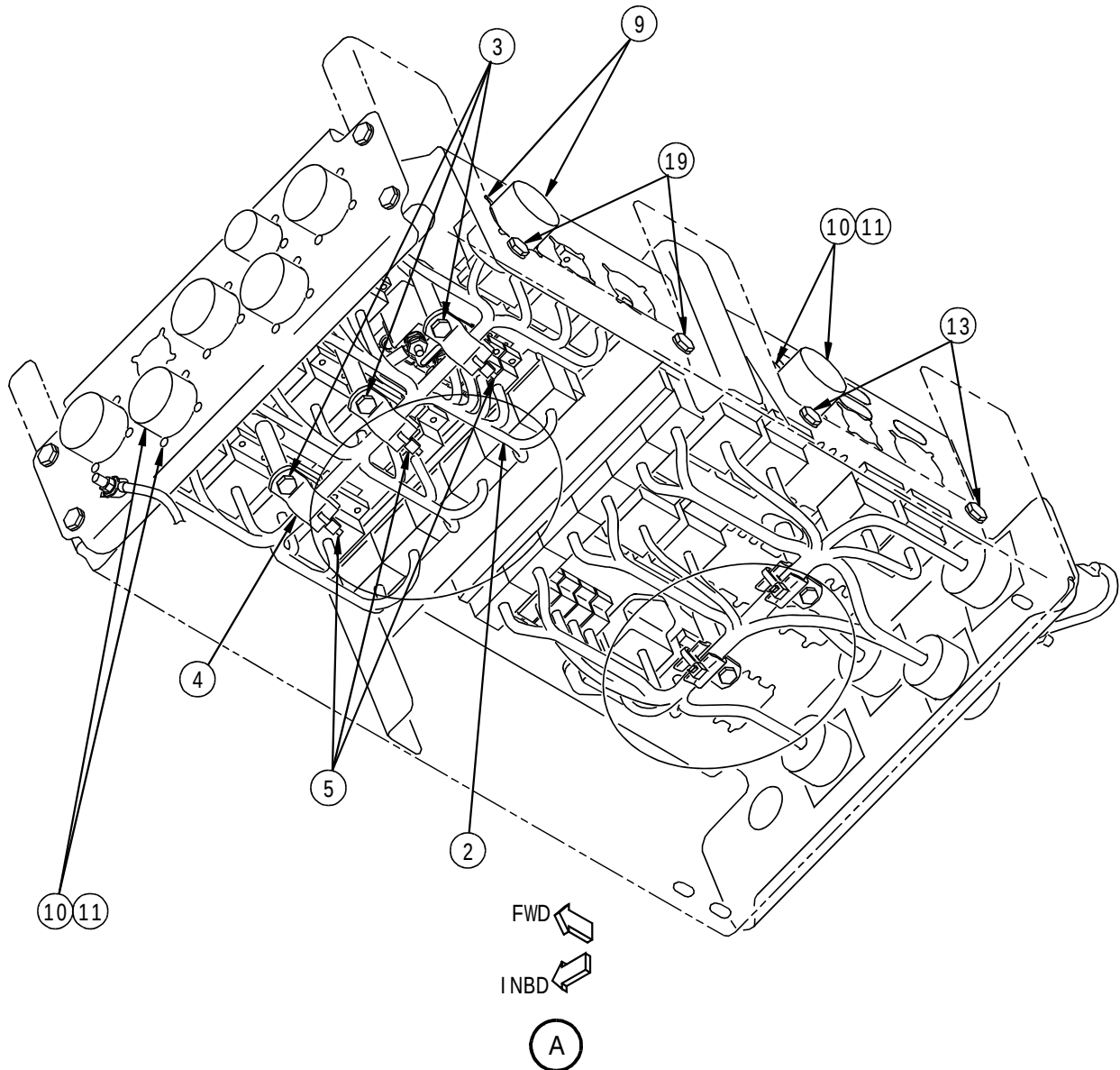


FIGURE 20: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION
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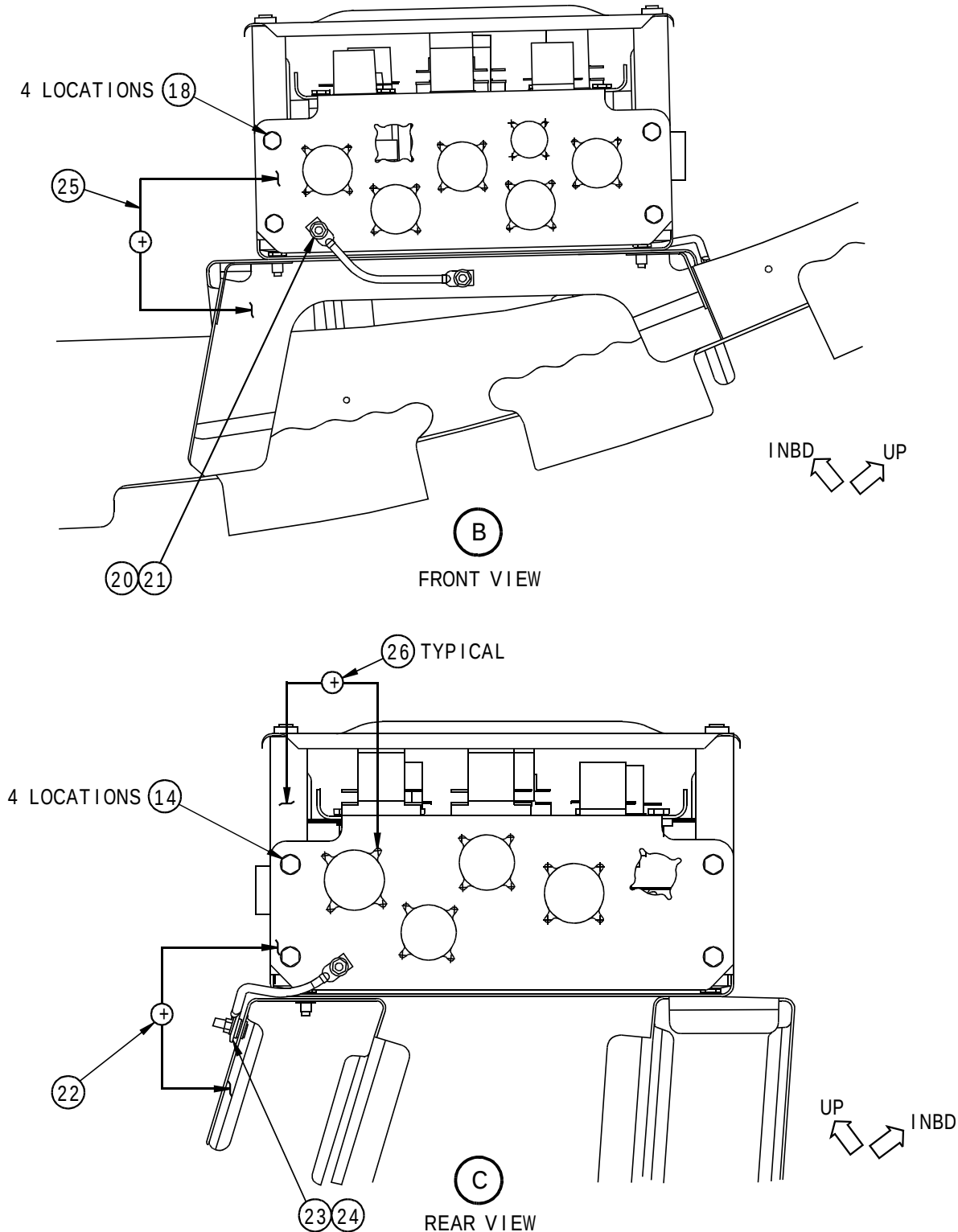
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 14, Configuration 1; Group 16, Configuration 1:

FIGURE 20: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	Marker	BAC27DEX5728	1	J20 BOX on cover plate. Refer to SOPM 20-50-05, as an accepted procedure.
2	Install (Kept)	Wire Bundle	-	-	after the wiring changes are done.
3	Install (New)	Screw	BACS12HN3-10	3	
4	Install (New)	Clamp	287T0011-1 or 287T0011-2 or 287T0011-3	3	
5	Install	Strap	BACS38K5	3	
6	Identify	J20 Junction Box	284A1203-()	1	(a)
7	Install (New)	J20 Junction Box	284A2203-11	1	
8	Install (Kept)	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	
9	Install (New)	Connector Screw Washer Nut	- BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	1 4 4 4	after wiring changes are done.
10	Install (Kept)	Connectors	-	-	
11	Install (New)	Screws Washers Nuts	BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	- - -	at each connector position when connector is present.
12	Install (New)	J20 Junction Box Plate A	284A3203-38	1	in the J20 Junction Box.
13	Install (New)	Bolt Spacer Washer	BACB30NM3K5 (Nearside) NAS43DD6-12FC (Nearside) NAS1149D0332J (Farside)	2 2 2	
14	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332J	4 4	
15	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	2 2	
16	Install (New)	J20 Junction Box Plate B	284A3203-31	1	in the J20 Junction Box.
17	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	2 2	
18	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	4 4	

FIGURE 20: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
19	Install (New)	Bolt Spacer Washer	BACB30NM3K5 (Nearside)	2	
			NAS43DD6-12FC (Nearside)	2	
			NAS1149D0332J (Farside)	2	
20	Install (Kept)	Jumper	BACJ40A20-6	1	to the J20 Junction Box.
21	Install (New)	Washer Nut	NAS1149D0316H	1	
			BACN10YR3CD	1	
22	Measure	Resistance	-	1	between the J20 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
23	Install (New)	Jumper	BACJ40A20-6	1	to the structure.
24	Install (New)	Washer Nut	NAS1149D0316H	1	
			BACN10YR3CD	1	
25	Measure	Resistance	-	1	between the J20 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
26	Measure	Resistance	-	-	of all bonded connectors. (b)
27	Install (New)	Cover Plate	284A3203-()	1	Rotate the 6 x 1/4 turn fasteners to install the J20 Junction Box cover plate.

(a) After the J20 Junction Box is reworked, part-mark it as shown below:
 284A1203-104 as 284A9200-67, 284A1203-107 as 284A9200-67, 284A1203-117 as 284A9200-67,
 284A1203-106 as 284A9200-68, 284A1203-109 as 284A9200-68, 284A1203-116 as 284A9200-68,
 284A1203-105 as 284A9200-69, 284A1203-112 as 284A9200-69, 284A1203-119 as 284A9200-69,
 284A1203-113 as 284A9200-70, 284A1203-120 as 284A9200-70, 284A1203-114 as 284A9200-71,
 284A1203-131 as 284A9200-72, 284A1203-115 as 284A9200-73 and 284A1203-118 as 284A9200-74. Refer
 to SOPM 20-50-10, as an accepted procedure.

(b) Measure the resistance of all bonded connectors on the J20 Junction Box between the connector flange
 and the J20 Junction Box structure. Connectors D40634J, D40641J, D40642J, D40892J, and D40894J are
 bonded. Not all airplanes have all connectors. Refer to SWPM 20-20-00, as an accepted procedure. Make
 sure the maximum resistance is not more than 0.001 ohm.

FIGURE 20: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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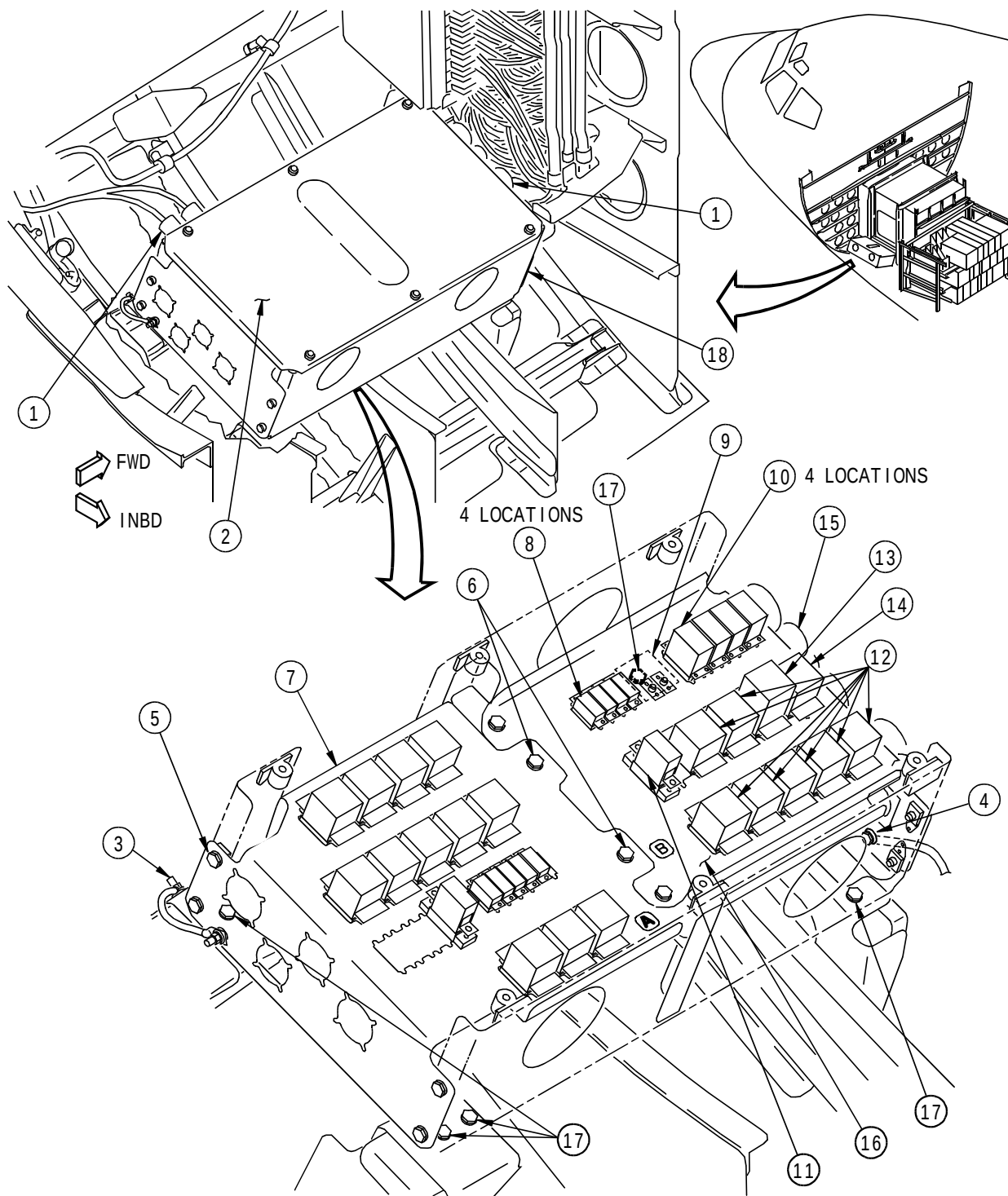
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FIGURE 21: J20 JUNCTION BOX - REMOVAL AND SALVAGE



This Figure applies to Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

FIGURE 21: J20 JUNCTION BOX - REMOVAL AND SALVAGE

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE: Not all relays are installed in all airplanes.

STEP	TASK	NAME	PART NUMBER	QTY	NOTES
1	Disconnect	Connector	-	-	from the J20 Junction Box.
2	Remove	Cover Plate	284A3203-()	1	Rotate the 6 x 1/4 turn fasteners to remove the J20 Junction Box cover plate. Discard this item.
3	Remove	Nut Washer Jumper	BACN10YR3CD NAS1149D0316H BACJ40A20-6	1 1 1	at the structure position. Discard the nut and washer.
4	Remove	Washer Nut Jumper	NAS1149D0316H BACN10YR3CD BACJ40A20-6	1 1	at the rear of the J20 Junction Box. Discard the nut and washer.
5	Remove	Bolt	-	4	Discard these items.
6	Remove	Bolt	-	2	Discard these items.
7	Remove / Keep	J20 Junction Box Plate A	284A3203-29	1	Remove the full plate A with the relays and wire bundle attached.
8	Remove / Keep	Relay	BACR13CD2	4	R361, R551, R682, R735 (a)
9	Remove / Keep	Relay	530740-3001	1	M2033
10	Remove / Keep	Relay	BACR13CE2	4	R711, R713, R714, R756 (a)
11	Remove / Keep	Relay	JL-D4N	1	R712.
12	Remove / Keep	Relay	BACR13CG2AB	7	R588, R590, R591, R595, R596, R708, R710.
13	Remove / Keep	Relay	TDH-7101-3003	1	R645.
14	Remove / Keep	Relay	KL-D4N	1	R567.
15	Remove / Keep	Wire Bundle	-	1	Remove and keep the wire bundle for use later.
16	Remove	J20 Junction Box Plate B	-	1	Discard this item.
17	Remove / Keep	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	
18	Remove	J20 Junction Box	284A1203-()	1	Discard this item.
(a) Relays R361, R551, and R756 are not installed in all airplanes. If the relays are installed, remove for later use.					

FIGURE 21: J20 JUNCTION BOX - REMOVAL AND SALVAGE

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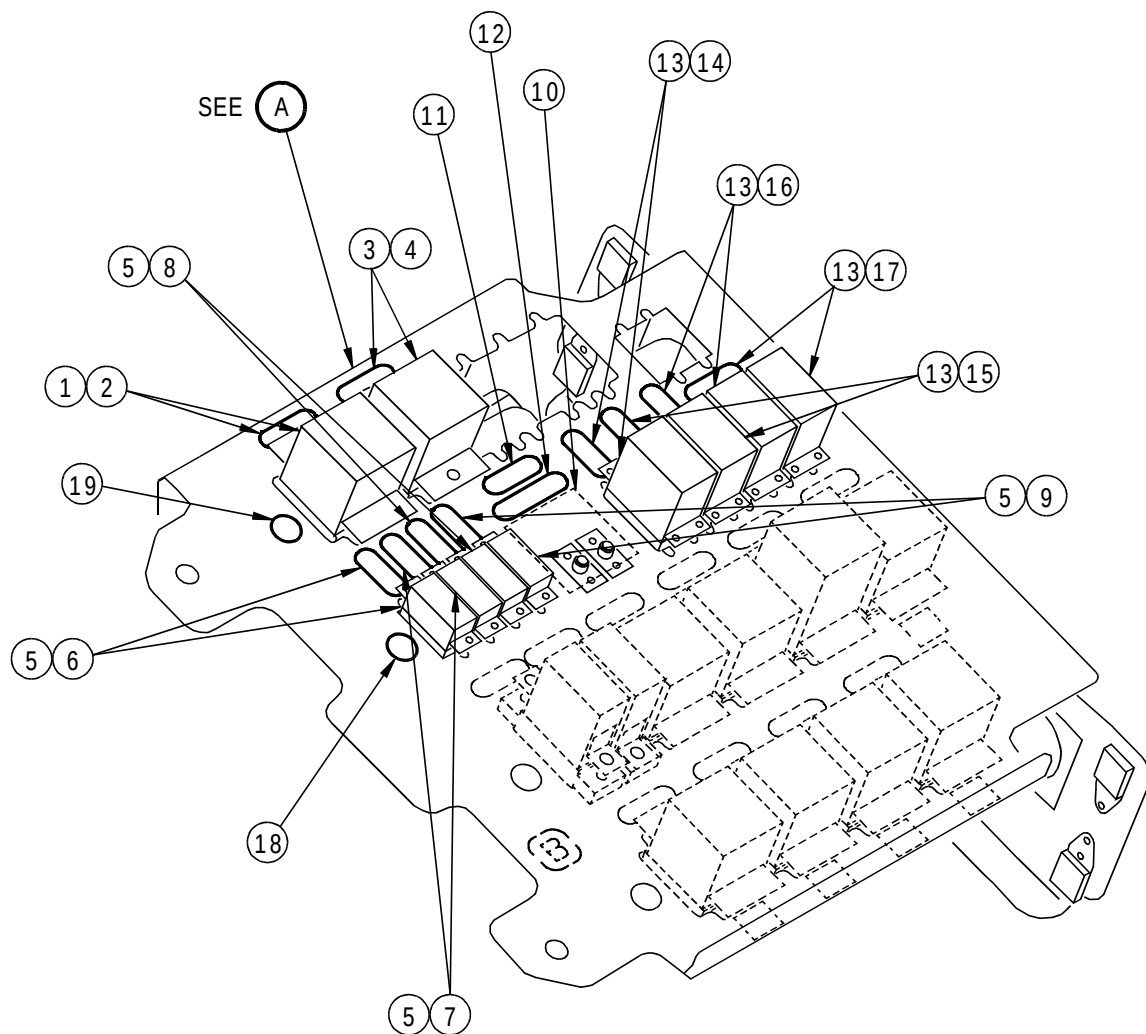
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FIGURE 22: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



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FIGURE 22: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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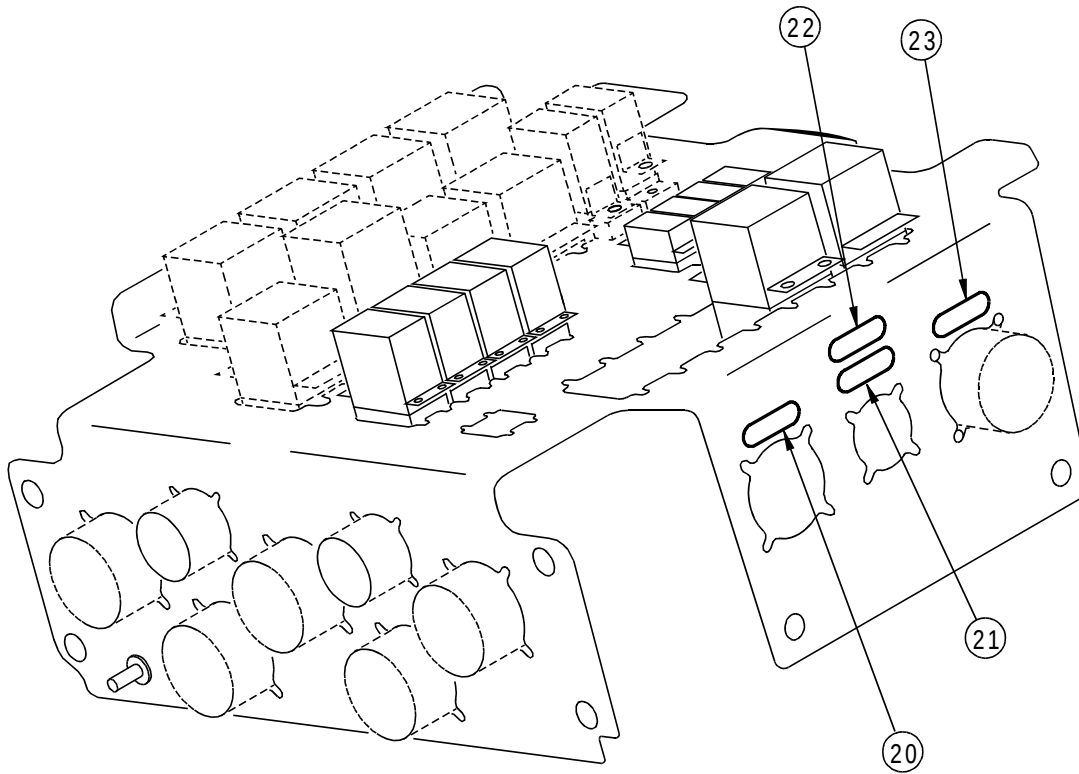
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This Figure applies to Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

FIGURE 22: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	BACR13CG2AB	1	R590. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7109	1	R590. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	TDH-8116-1502	1	R934. Refer to SWPM 20-81-22., as an accepted procedure.
4	Install (New)	Marker	BAC27DEX7087	1	R934. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CD2	4	R361, R551, R682, R735. Refer to SWPM 20-81-22., as an accepted procedure. (a)
6	Install (New)	Marker	BAC27DEX7114	1	R682. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7121	1	R735. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Marker	BAC27DEX7106	1	R551. Refer to SOPM 20-50-05, as an accepted procedure. (b)
9	Install (New)	Marker	BAC27DEX7105	1	R361. Refer to SOPM 20-50-05, as an accepted procedure. (b)
10	Install (Kept)	Relay	530740-3001	1	M2033. Refer to SWPM 20-81-22., as an accepted procedure.
11	Install (New)	Marker	BAC27DEX7104	1	M2033. Refer to SWPM 20-81-22, as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7096	1	FAR SIDE. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (Kept)	Relay	BACR13CE2	4	R711, R713, R714, R756. Refer to SWPM 20-81-22, as an accepted procedure.
14	Install (New)	Marker	BAC27DEX7122	1	R756. Refer to SOPM 20-50-05, as an accepted procedure. (b)

FIGURE 22: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
15	Install (New)	Marker	BAC27DEX7117	1	R711. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX7119	1	R713. Refer to SOPM 20-50-05, as an accepted procedure.
17	Install (New)	Marker	BAC27DEX7120	1	R714. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27DEX6931	1	C. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27DEX7095	1	D. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27DEX7103	1	AJ20D. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
(a) Relays R361, R551, and R756 are not installed in all airplanes. If the relays were salvaged from the existing J20 Junction Box Plate B, install as shown.					
(b) If the applicable relay was salvaged from the existing J20 Junction Box Plate B, install the marker as shown. If the applicable relay is not installed on the airplane, discard the marker.					

FIGURE 22: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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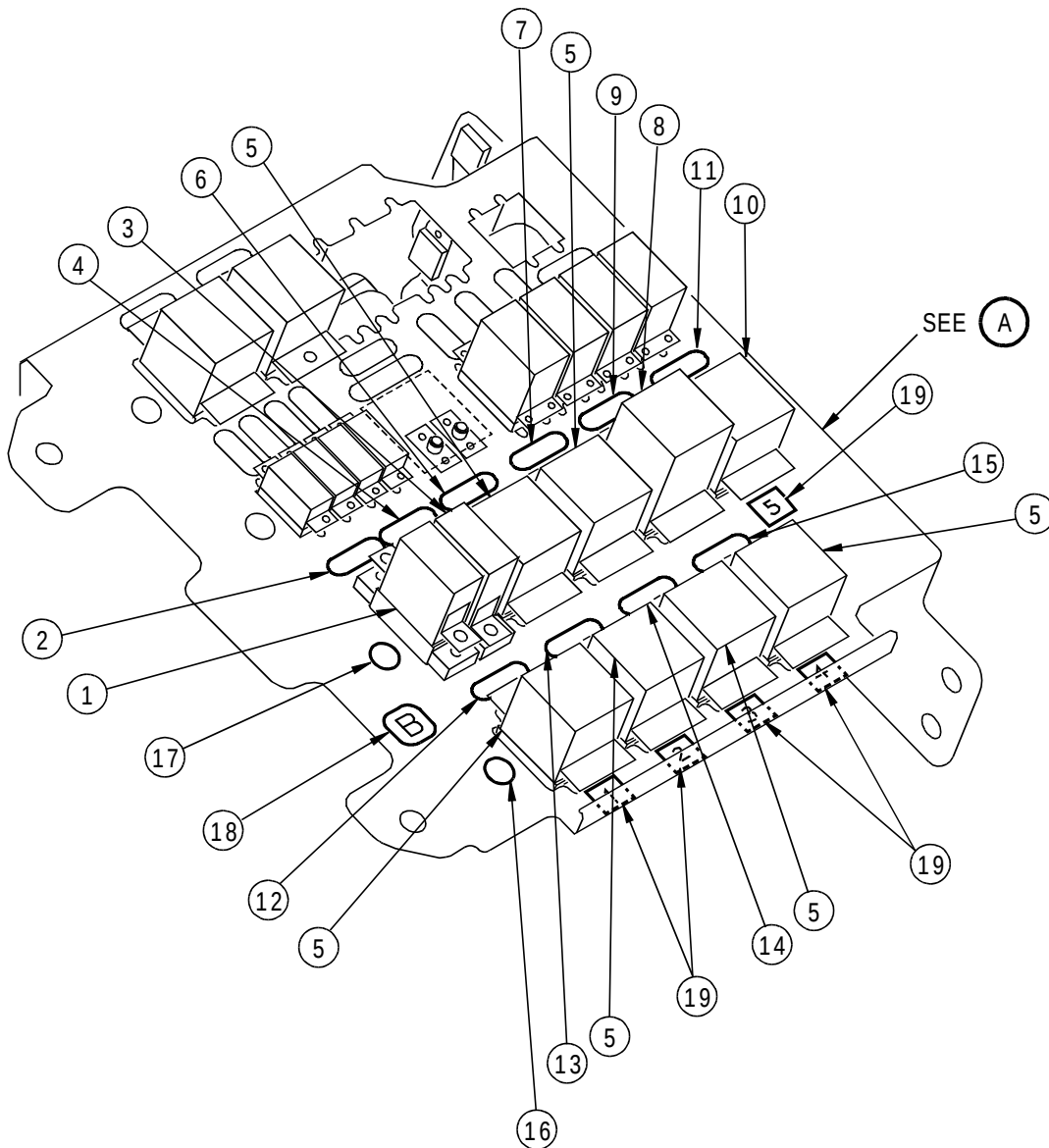
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FIGURE 23: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION



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FIGURE 23: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

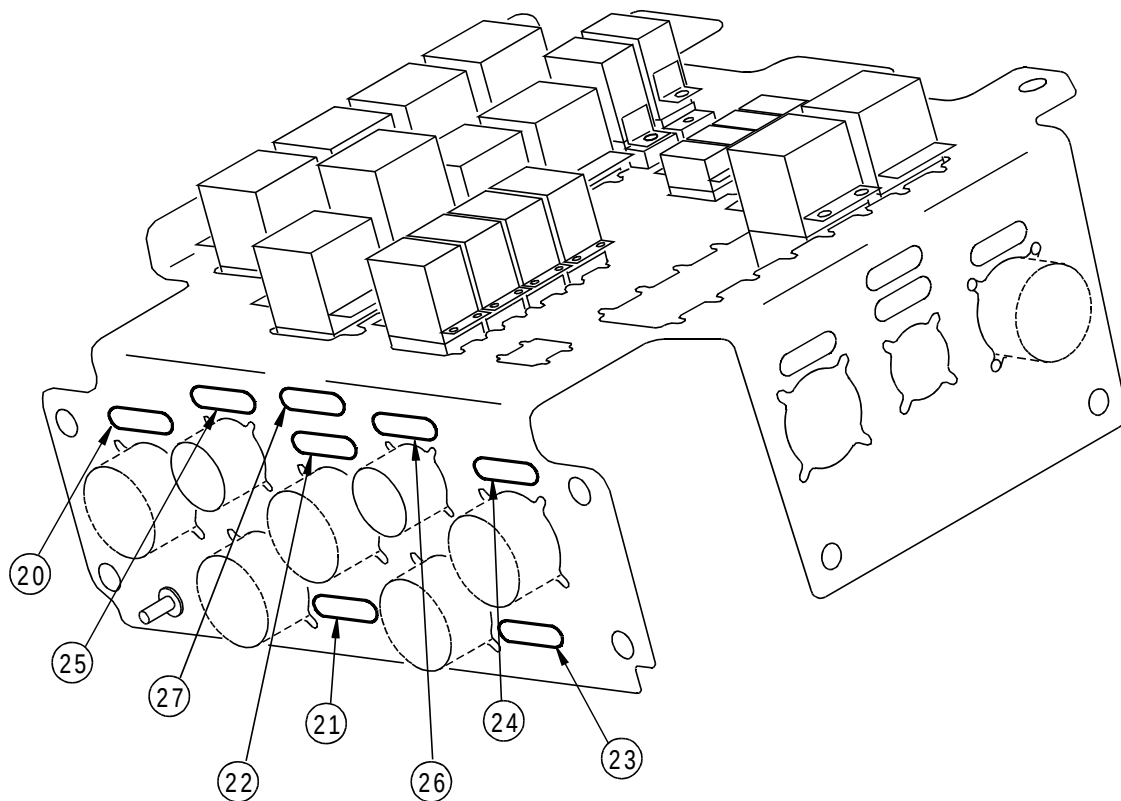
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This Figure applies to Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

FIGURE 23: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

NOTE:

1. All the parts shown below are installed on the new J20 Junction Box Plate B part number 284A3203-31.
2. It is necessary to temporarily install the salvaged wire bundle when the kept relays are installed on the new J20 Junction Box Plate B.
3. Not all relays are installed in all airplanes.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Relay	JL-D4N	1	R712. Refer to SWPM 20-81-22., as an accepted procedure.
2	Install (New)	Marker	BAC27DEX7118	1	R712. Refer to SOPM 20-50-05, as an accepted procedure.
3	Install (New)	Relay	BACR13CJ2	1	R936. Refer to SWPM 20-81-22., as an accepted procedure. (a)
4	Install (New)	Marker	BAC27DEX7089	1	R936. Refer to SOPM 20-50-05, as an accepted procedure.
5	Install (Kept)	Relay	BACR13CG2AB	6	R588, R591, R595, R596, R708, R710. Refer to SWPM 20-81-22., as an accepted procedure.
6	Install (New)	Marker	BAC27DEX7116	1	R710. Refer to SOPM 20-50-05, as an accepted procedure.
7	Install (New)	Marker	BAC27DEX7115	1	R708. Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (Kept)	Relay	TDH-7101-3003	1	R645. Refer to SWPM 20-81-22., as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7113	1	R645. Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (Kept)	Relay	KL-D4N	1	R567. Refer to SWPM 20-81-22., as an accepted procedure.
11	Install (New)	Marker	BAC27DEX7107	1	R567. Refer to SOPM 20-50-05, as an accepted procedure.
12	Install (New)	Marker	BAC27DEX7111	1	R595. Refer to SOPM 20-50-05, as an accepted procedure.
13	Install (New)	Marker	BAC27DEX7112	1	R596. Refer to SOPM 20-50-05, as an accepted procedure.
14	Install (New)	Marker	BAC27DEX7110	1	R591. Refer to SOPM 20-50-05, as an accepted procedure.
15	Install (New)	Marker	BAC27DEX7108	1	R588. Refer to SOPM 20-50-05, as an accepted procedure.
16	Install (New)	Marker	BAC27DEX6929	1	A. Refer to SOPM 20-50-05, as an accepted procedure.

FIGURE 23: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
17	Install (New)	Marker	BAC27DEX6930	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
18	Install (New)	Marker	BAC27NEX0174	1	B. Refer to SOPM 20-50-05, as an accepted procedure.
19	Install (New)	Marker	BAC27NEX0938	1	Positions 1 through 5. Discard the remaining positions. Refer to SOPM 20-50-05, as an accepted procedure.
20	Install (New)	Marker	BAC27NEX0704	1	POS 1. Refer to SOPM 20-50-05, as an accepted procedure.
21	Install (New)	Marker	BAC27NEX0705	1	POS 2. Refer to SOPM 20-50-05, as an accepted procedure.
22	Install (New)	Marker	BAC27NEX0706	1	POS 3. Refer to SOPM 20-50-05, as an accepted procedure.
23	Install (New)	Marker	BAC27NEX0707	1	POS 4. Refer to SOPM 20-50-05, as an accepted procedure.
24	Install (New)	Marker	BAC27NEX0708	1	POS 5. Refer to SOPM 20-50-05, as an accepted procedure.
25	Install (New)	Marker	BAC27NEX0709	1	POS 6. Refer to SOPM 20-50-05, as an accepted procedure.
26	Install (New)	Marker	BAC27NEX0710	1	POS 7. Refer to SOPM 20-50-05, as an accepted procedure.
27	Install (New)	Marker	BAC27DEX6977	1	AJ20B. Refer to SOPM 20-50-05, as an accepted procedure.

(a) For Airplanes that have a relay installed in the location shown before this service bulletin is done install relay R936 in one of the open locations available as necessary.

NOTE: This service bulletin is affected by an FAA Airworthiness Directive. If the relay is installed in a different location to the one shown in this service bulletin, then an Alternative Means Of Compliance (AMOC) is required from the Operators local regulatory agency.

FIGURE 23: J20 JUNCTION BOX PLATE B - MARKER AND RELAY INSTALLATION

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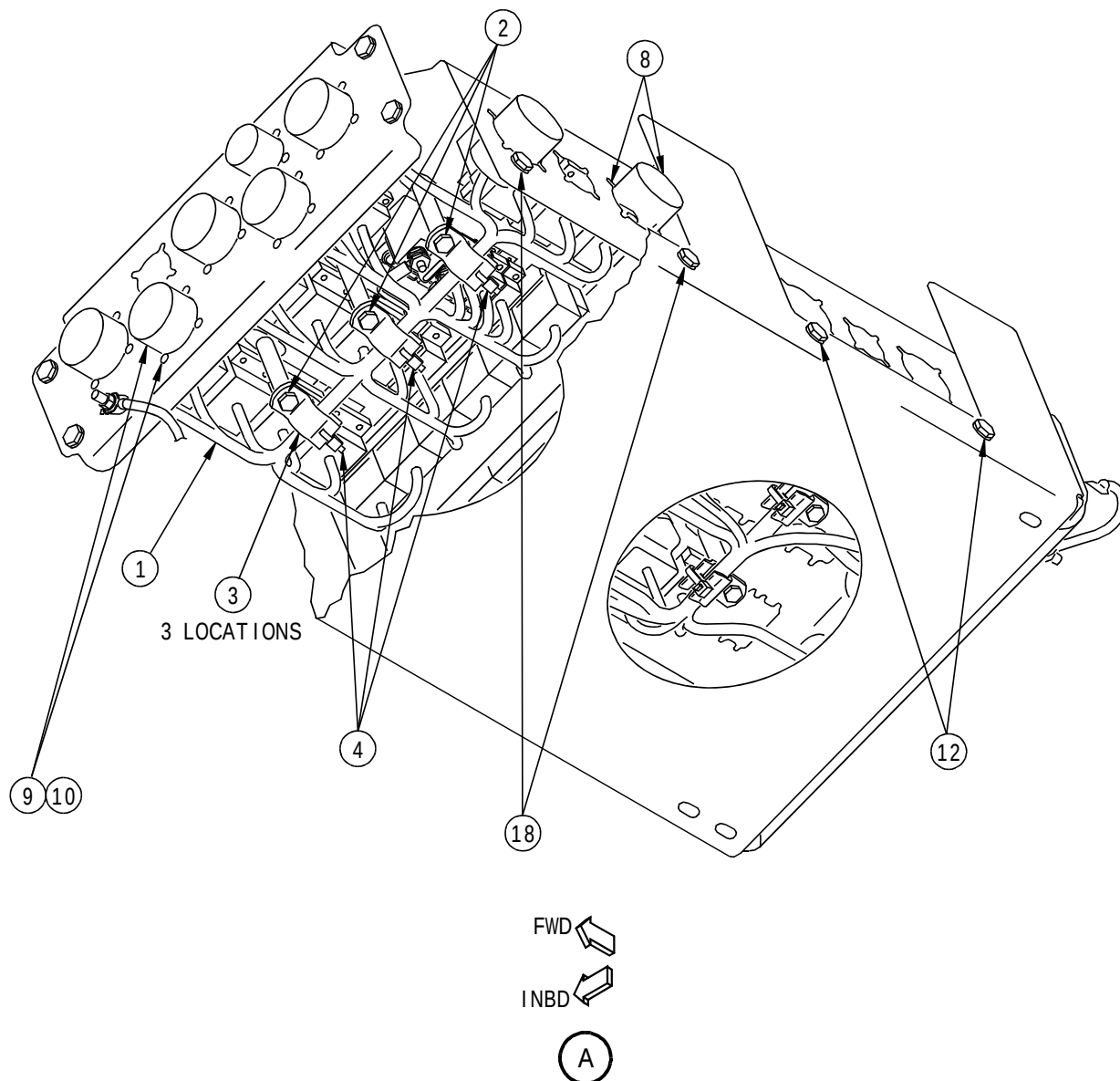
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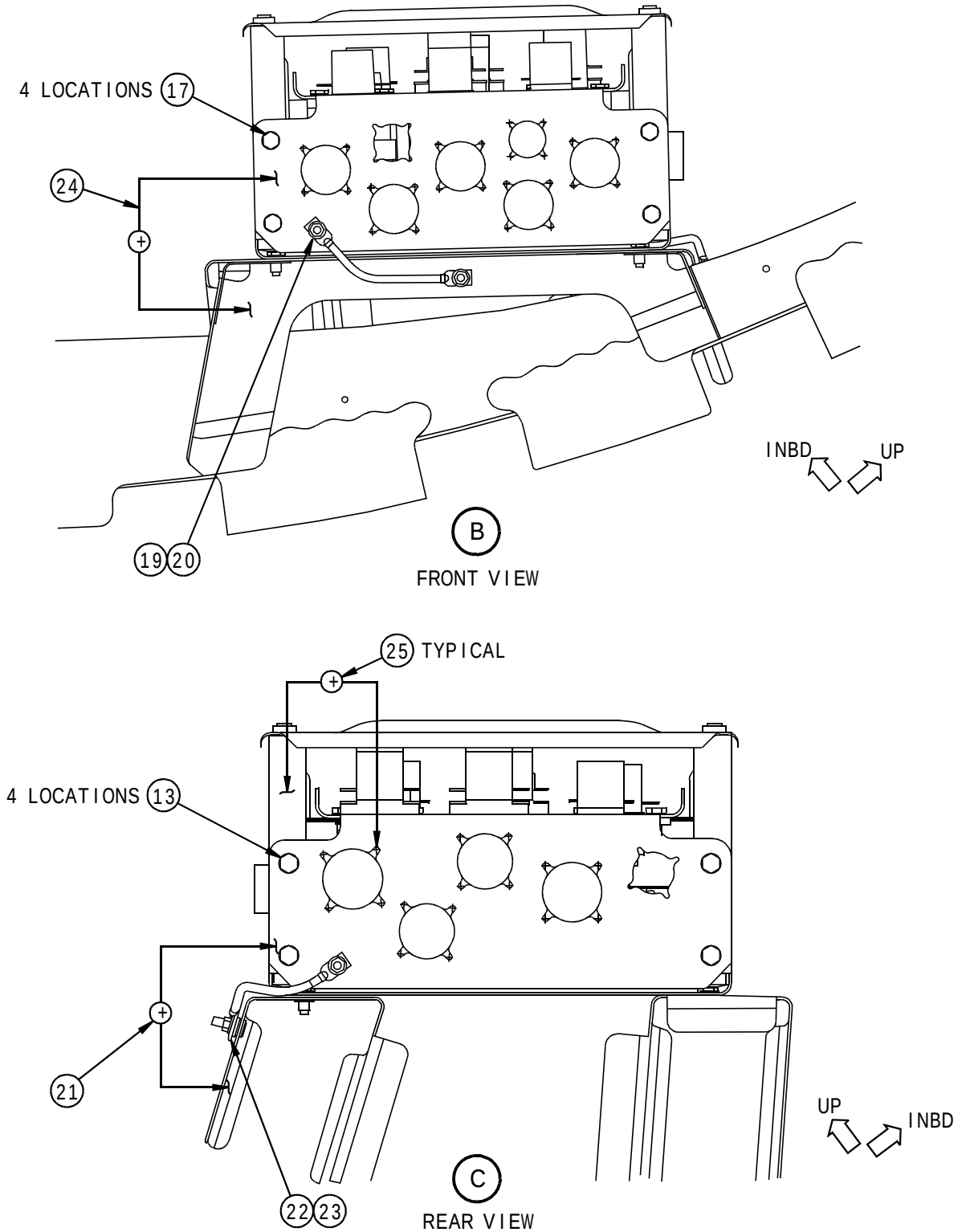
FIGURE 24: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION
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This Figure applies to Group 4, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

FIGURE 24: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (Kept)	Wire Bundle	-	-	after the wiring changes are done.
2	Install (New)	Screw	BACS12HN3-10	3	
3	Install (New)	Clamp	287T0011-1 or 287T0011-2 or 287T0011-3	3	
4	Install	Strap	BACS38K5	3	
5	Identify	J20 Junction Box	284A1203-()	1	(a)
6	Install (New)	J20 Junction Box	284A2203-11	1	
7	Install (Kept)	Bolt Washer	BACB30NM3K2 NAS1149D0316H	5 5	
8	Install (New)	Connector Screw Washer Nut	- BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	1 4 4 4	after wiring changes are done.
9	Install (Kept)	Connectors	-	-	
10	Install (New)	Screws Washers Nuts	BACS12HN04-5 (Nearside) NAS1149DN332J (Nearside) BACN10YR04CD (Farside)	- - -	at each connector position when connector is present.
11	Install (New)	J20 Junction Box Plate A	284A3203-29	1	in the J20 Junction Box.
12	Install (New)	Bolt Spacer Washer	BACB30NM3K5 (Nearside) NAS43DD6-12FC (Nearside) NAS1149D0332J (Farside)	2 2 2	
13	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332J	4 4	
14	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	2 2	
15	Install (New)	J20 Junction Box Plate B	284A3203-31	1	in the J20 Junction Box.
16	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	2 2	
17	Install (New)	Bolt Washer	BACB30NM3K2 NAS1149D0332H	4 4	
18	Install (New)	Bolt Spacer Washer	BACB30NM3K5 (Nearside) NAS43DD6-12FC (Nearside) NAS1149D0332J (Farside)	2 2 2	

FIGURE 24: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
19	Install (Kept)	Jumper	BACJ40A20-6	1	to the J20 Junction Box.
20	Install (New)	Washer Nut	NAS1149D0316H BACN10YR3CD	1 1	
21	Measure	Resistance	-	1	between the J20 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
22	Install (New)	Jumper	BACJ40A20-6	1	to the structure.
23	Install (New)	Washer Nut	NAS1149D0316H BACN10YR3CD	1 1	
24	Measure	Resistance	-	1	between the J20 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
25	Measure	Resistance	-	-	of all bonded connectors. (b)
26	Install (New)	Cover Plate	284A3203-()	1	Rotate the 6 x 1/4 turn fasteners to install the J20 Junction Box cover plate.
27	Install (New)	Marker	BAC27DEX5728	1	J20 BOX on cover plate. Refer to SOPM 20-50-05, as an accepted procedure.

(a) After the J20 Junction Box is reworked, part-mark it as shown below:

284A1203-123 as 284A9200-75, 284A1203-124 as 284A9200-76, 284A1203-125 as 284A9200-77, 284A1203-126 as 284A9200-78, 284A1203-127 as 284A9200-79, 284A1203-128 as 284A9200-80, 284A1203-129 as 284A9200-81, 284A1203-130 as 284A9200-82, 284A1203-132 as 284A9200-83, 284A1203-133 as 284A9200-84, 284A1203-134 as 284A9200-85, 284A1203-135 as 284A9200-86, 284A1203-136 as 284A9200-87, 284A1203-137 as 284A9200-88, 284A1203-138 as 284A9200-89, 284A1203-139 as 284A9200-90, and 284A1203-201A as 284A1203-201B.

Refer to SOPM 20-50-10, as an accepted procedure.

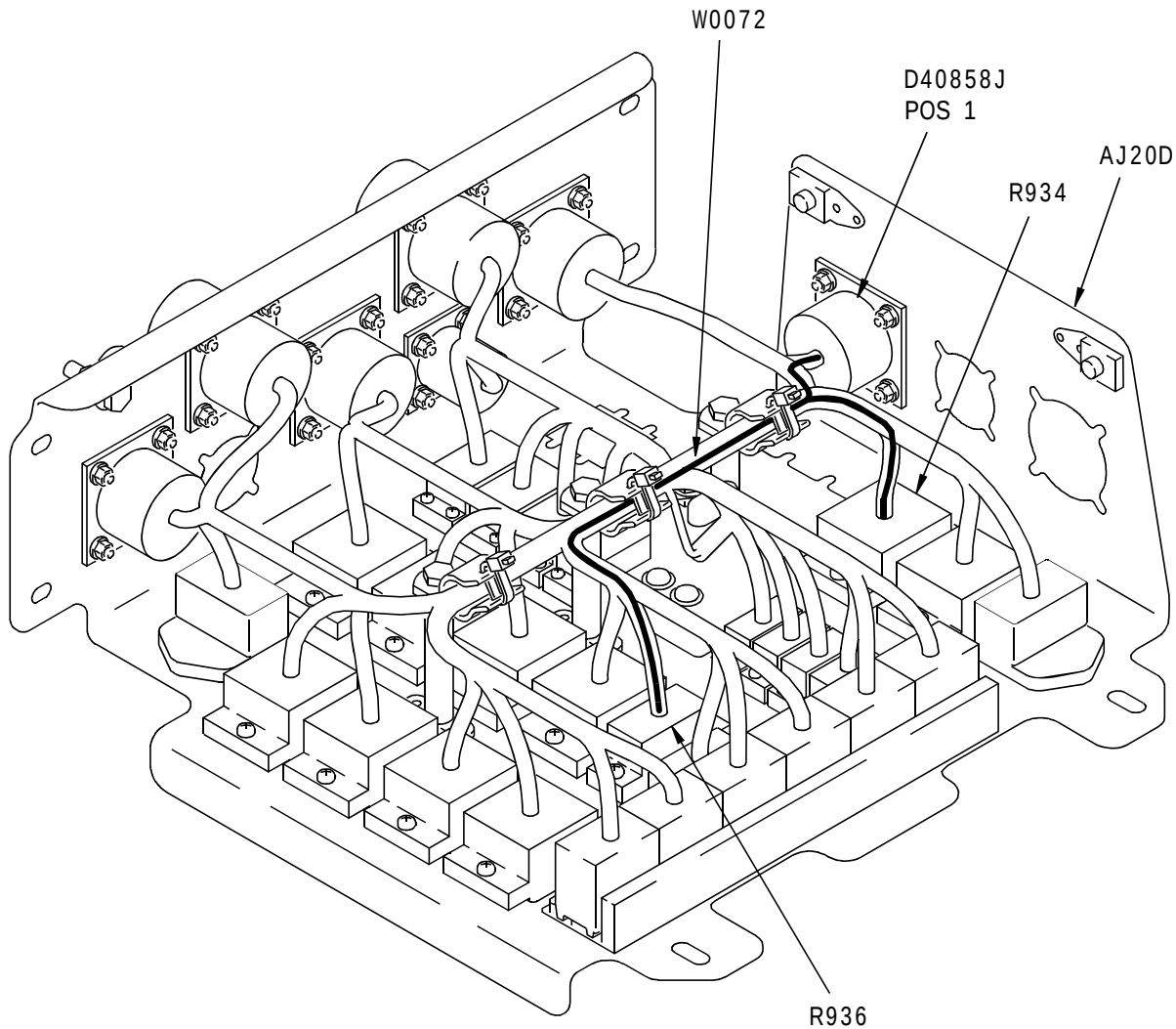
(b) Measure the resistance of all bonded connectors on the J20 Junction Box between the connector flange and the J20 Junction Box structure. Connectors D40634J, D40641J, D40642J, D40892J, and D40894J are bonded. Not all airplanes have all connectors. Refer to SWPM 20-20-00, as an accepted procedure. Make sure the maximum resistance is not more than 0.001 ohm.

FIGURE 24: J20 JUNCTION BOX, PLATE A AND PLATE B - INSTALLATION

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ALERT**ALERT****FIGURE 25: W0072 WIRE BUNDLE ROUTING**

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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

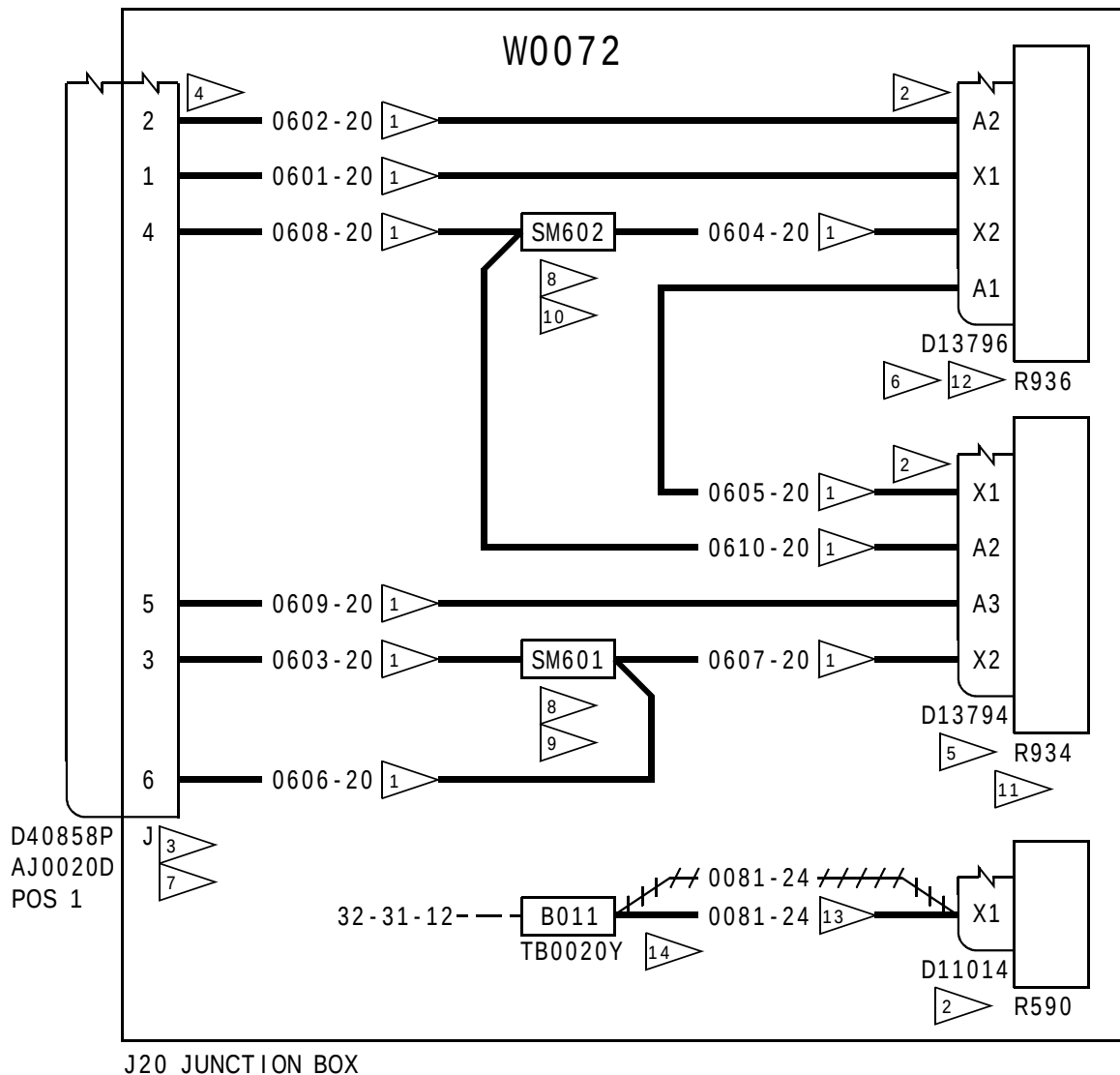
FIGURE 25: W0072 WIRE BUNDLE ROUTING
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FIGURE 26: WIRE BUNDLE W0072 WIRING CHANGE



REFERENCE: WIRING DIAGRAM 28-23-11, 32-31-12

— ADDED WIRE OR NEW ROUTING

--- DELETED WIRE OR FORMER ROUTING

428220

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12,

FIGURE 26: WIRE BUNDLE W0072 WIRING CHANGE

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Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-48, Type 10, Class 1, AWG 20	10	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer toSWPM 20-10-19., as an accepted procedure.
2	Socket Contact	BACC47DJ2	9	Refer to SWPM 20-81-12., as an accepted procedure.
3	Connector	BACC45FN18-31P	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-11306	-	Insert filler rods into empty cavities.
4	Pin Contact	BACC47CN1A	6	Refer to SWPM 20-61-11., as an accepted procedure.
5	Relay Socket	BACS16W10A	1	D13794. Refer to SWPM 20-81-12, as an accepted procedure.
6	Relay Socket	BACS16X6A	1	D13796. Refer to SWPM 20-81-12, as an accepted procedure.
7	I.D. Tape, Connector	280A3113-11303	1	Imprinted "D40858J M/W AJ0020D POS 01". Install ID tape within 6 inches of connector.
8	Splice	D-436-37	2	Refer to SWPM 20-31-12., as an accepted procedure.
9	Sleeve, Splice I.D.	280A3113-11304	1	Imprinted "SM601".
10	Sleeve, Splice I.D.	280A3113-11305	1	Imprinted "SM602".
11	I.D. Tape, Connector	280A3113-11301	1	Imprinted "D13794 M/W R934 RLY L AUTO SHUTOFF TD". Install ID tape within 6 inches of connector.
12	I.D. Tape, Connector	280A3113-11302	1	Imprinted "D13796 M/W R936 RLY L AUTO SHUTOFF 115VAC". Install ID tape within 6 inches of connector.
13	Wire	BMS13-48, Type 11, Class 1, AWG 24	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer toSWPM 20-10-19., as an accepted procedure.
14	Contact, Pin	S280W555-920	1	Refer to SWPM 20-90-15., as an accepted procedure.

FIGURE 26: WIRE BUNDLE W0072 WIRING CHANGE

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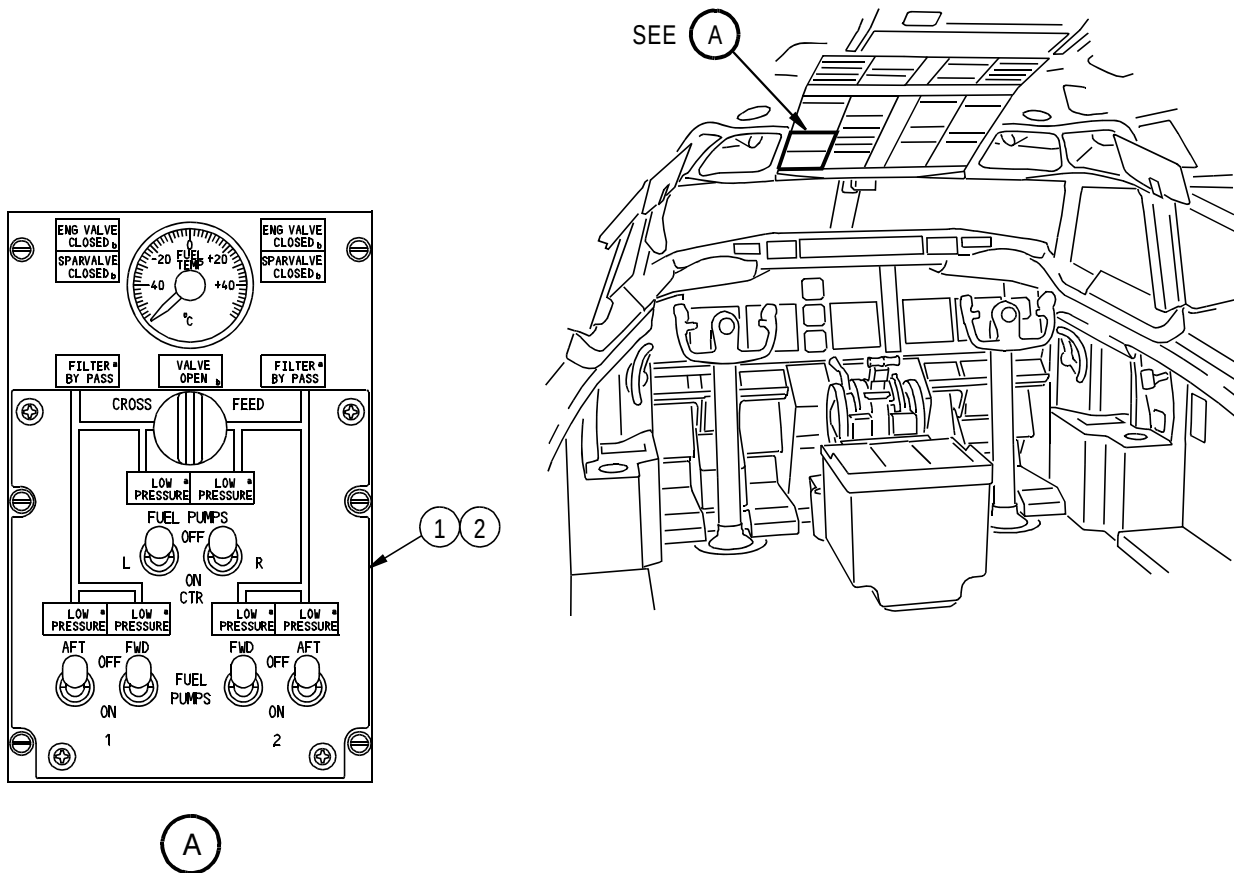
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FIGURE 27: P5-2 FUEL CONTROL MODULE REPLACEMENT



This Figure applies to Group 1, Configuration 1; Group 5, Configuration 1; Group 7, Configuration 1; Group 9, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 27: P5-2 FUEL CONTROL MODULE REPLACEMENT

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	P5-2 Fuel Control Module	233A3202-1 or 233A3202-2 or 233A3202-3 or 233A3202-4	1	Refer to 737-600/700/800/900 AMM 28-22-43/401.SWPM 20-81-12, as an accepted procedure. (a) (b)
2	Install (changed)	P5-2 Fuel Control Module	233A3202-5 or 233A3202-6 or 233A3202-7	1	Refer to 737-600/700/800/900 AMM 28-22-43/401.SWPM 20-81-12, as an accepted procedure. (c)
(a)	Group 1, 5, 7, 9, 12 - 18 airplanes were delivered with a 233A3202-1 P5-2 Fuel Control Module.				
(b)	The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-1, rework the module to a 233A3202-6 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-2, rework the module to a 233A3202-7 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-3, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-4, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03.				
(c)	The 233A3202-5, 233A3202-6, or 233A3202-7 are created by Boeing Component Service Bulletin 233A3202-28-03.				

FIGURE 27: P5-2 FUEL CONTROL MODULE REPLACEMENT

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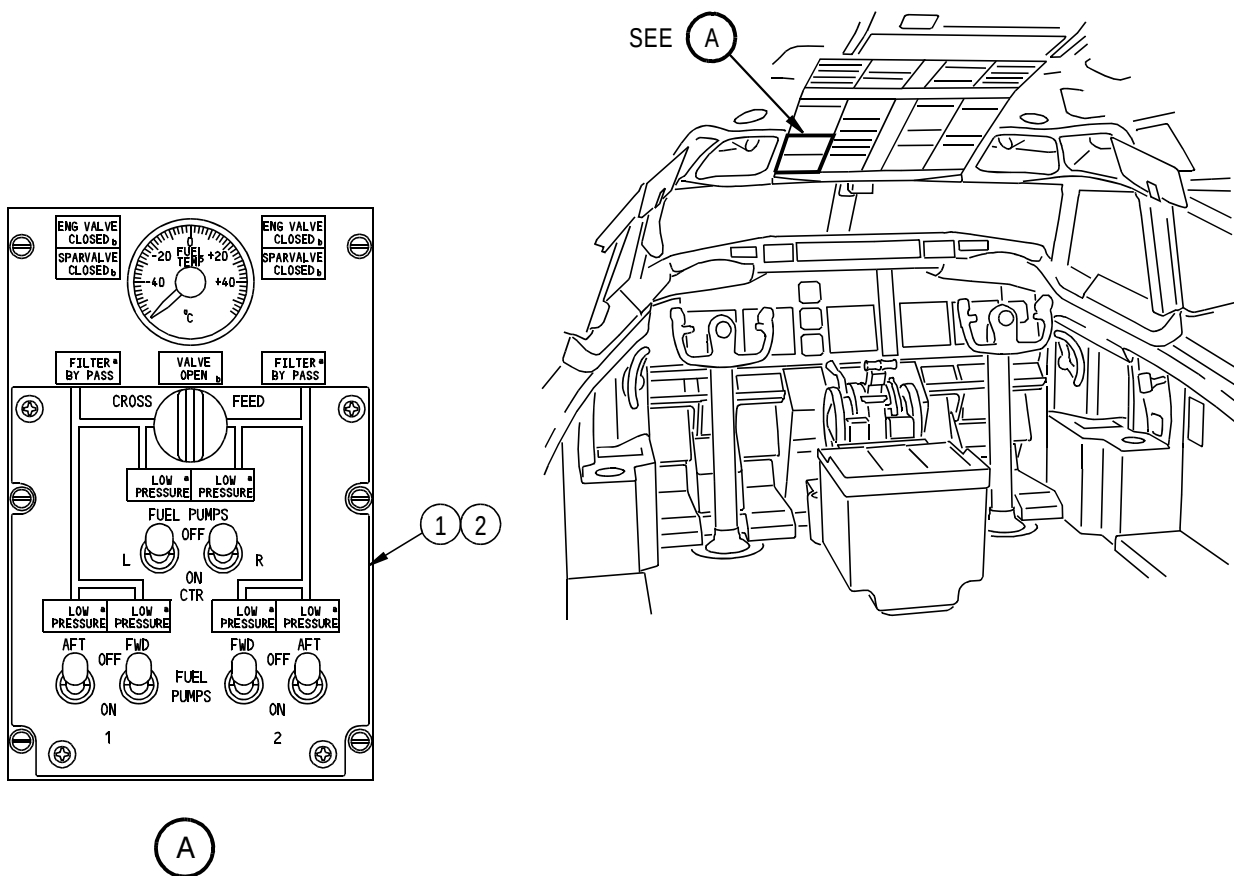
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FIGURE 28: P5-2 FUEL CONTROL MODULE REPLACEMENT



This Figure applies to Group 2, Configuration 1; Group 4, Configuration 1; Group 6, Configuration 1; Group 8, Configuration 1; Group 10, Configuration 1:

FIGURE 28: P5-2 FUEL CONTROL MODULE REPLACEMENT

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	P5-2 Fuel Control Module	233A3202-1 or 233A3202-2 or 233A3202-3 or 233A3202-4	1	Refer to 737-600/700/800/900 AMM 28-22-43/401.SWPM 20-81-12, as an accepted procedure. (a) (b)
2	Install (changed)	P5-2 Fuel Control Module	233A3202-5 or 233A3202-6 or 233A3202-7	1	Refer to 737-600/700/800/900 AMM 28-22-43/401.SWPM 20-81-12, as an accepted procedure. (c)
(a)	Group 2, 4, 6, 8, and 10 airplanes were delivered with a 233A3202-2 P5-2 Fuel Control Module.				
(b)	The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-1, rework the module to a 233A3202-6 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-2, rework the module to a 233A3202-7 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-3, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-4, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03.				
(c)	The 233A3202-5, 233A3202-6, or 233A3202-7 are created by Boeing Component Service Bulletin 233A3202-28-03.				

FIGURE 28: P5-2 FUEL CONTROL MODULE REPLACEMENT

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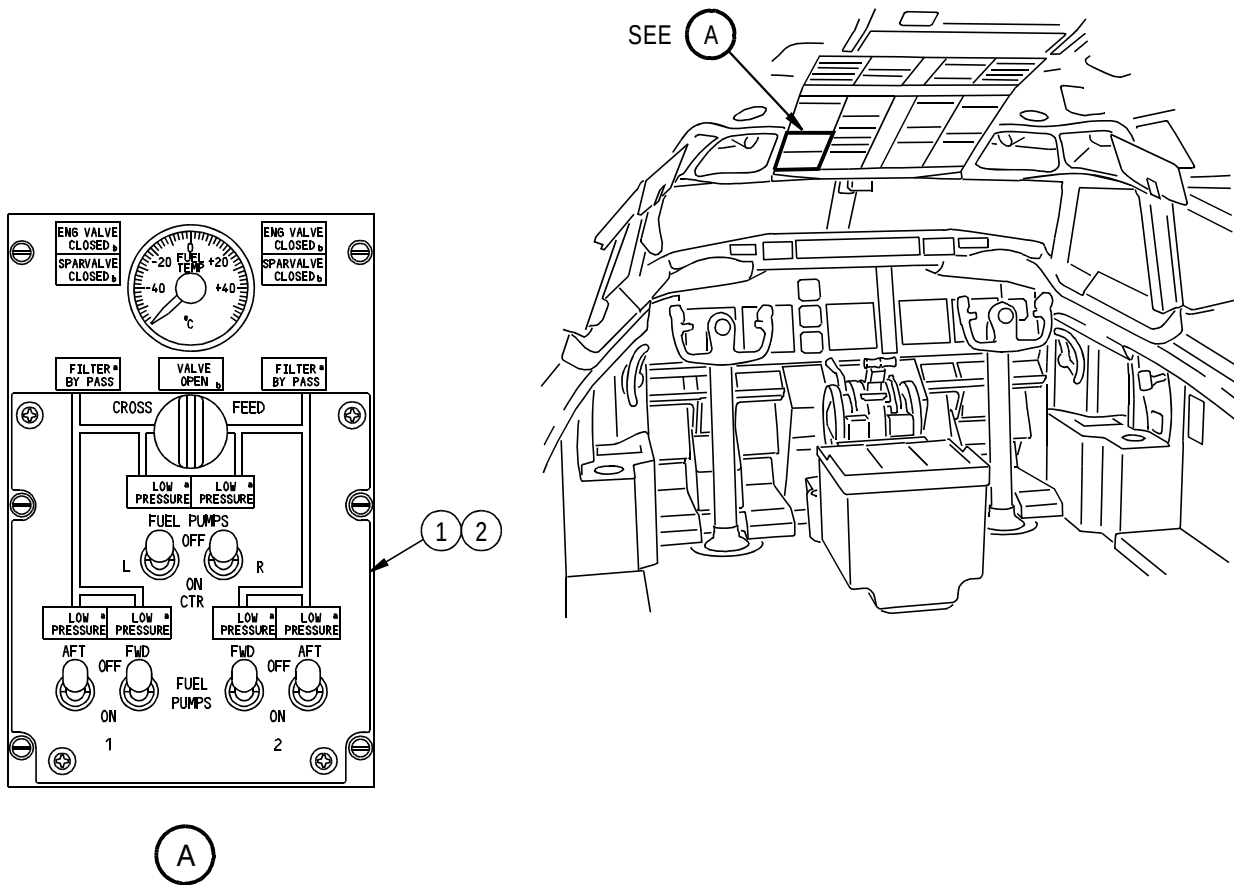
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FIGURE 29: P5-2 FUEL CONTROL MODULE REPLACEMENT



This Figure applies to Group 3, Configuration 1; Group 11, Configuration 1:

FIGURE 29: P5-2 FUEL CONTROL MODULE REPLACEMENT
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	P5-2 Fuel Control Module	233A3202-1 or 233A3202-2 or 233A3202-3 or 233A3202-4	1	Refer to 737-600/700/800/900 AMM 28-22-43/401., as an accepted procedure. (a) (b)
2	Install (changed)	P5-2 Fuel Control Module	233A3202-5 or 233A3202-6 or 233A3202-7	1	Refer to 737-600/700/800/900 AMM 28-22-43/401., as an accepted procedure. (c)
(a)	Group 3 and 11 airplanes were delivered with a 233A3202-3 P5-2 Fuel Control Module.				
(b)	The P5-2 module is reworked by Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-1, rework the module to a 233A3202-6 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-2, rework the module to a 233A3202-7 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-3, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03. If the airplane has a 233A3202-4, rework the module to a 233A3202-5 as shown in Boeing Component Service Bulletin 233A3202-28-03.				
(c)	The 233A3202-5, 233A3202-6, or 233A3202-7 are created by Boeing Component Service Bulletin 233A3202-28-03.				

FIGURE 29: P5-2 FUEL CONTROL MODULE REPLACEMENT

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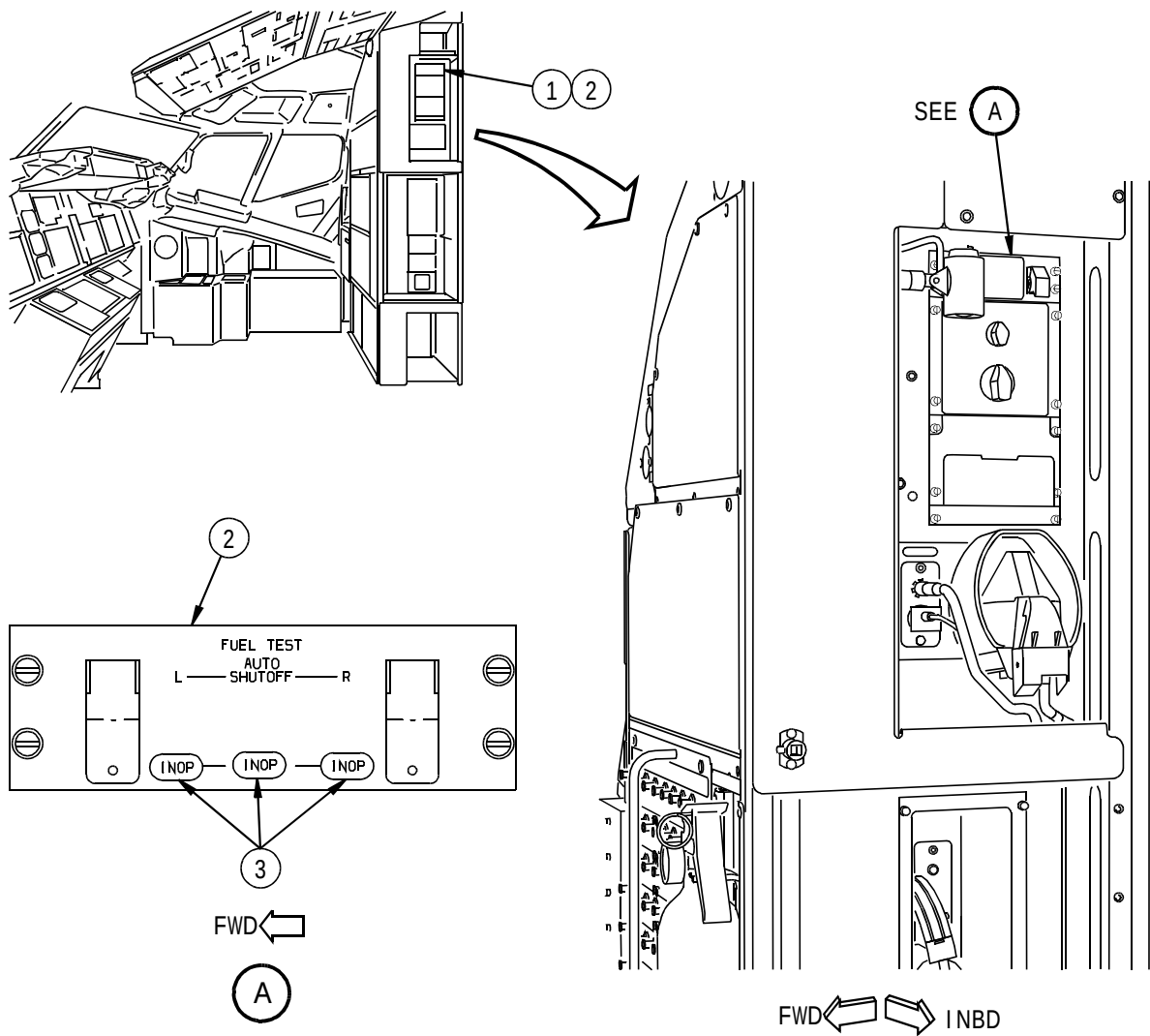
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FIGURE 30: P61-8 FUEL TEST PANEL INSTALLATION



This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Blank Panel	BACP10U0187GC	1	
2	Install (New)	P61-8 Fuel Test Panel	233A7206-1	1	Install panel with attached panel fastener studs.
		Panel Fastener Stud	BACS21DX10	4	
3	Install (New)	Marker	BAC27DCC2769	3	

FIGURE 30: P61-8 FUEL TEST PANEL INSTALLATION
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Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Plug Button	BACP20B63B	4	
2	Install (New)	Circuit Breaker	BACC18AD2	4	C1637 (C3), C1638 (C7), C1639 (D7), C1640 (E7).
3	Install (New)	Marker	BAC27DCC3397	1	
4	Install (New)	Marker	BAC27DCC3398	1	
5	Install (New)	Marker	BAC27DCC3399	1	
6	Install (New)	Marker	BAC27DCC3400	1	
7	Install (New)	Marker	BACT19J4	4	C1637 (C3), C1638 (C7), C1639 (D7), C1640 (E7). Refer to SOPM 20-50-12, as an accepted procedure.

FIGURE 31: P6-3 PANEL CIRCUIT BREAKER INSTALLATION

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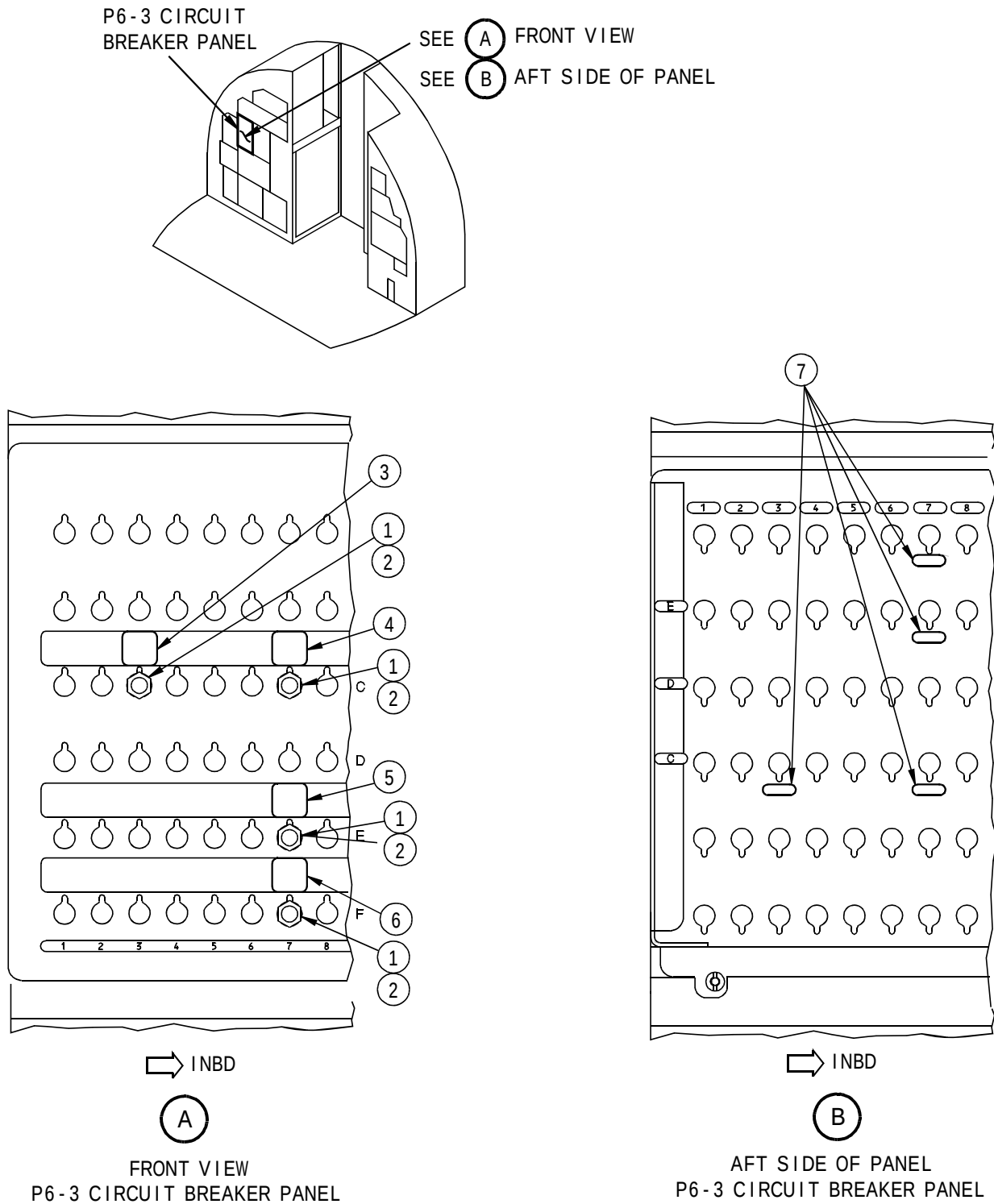
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FIGURE 32: P6-3 PANEL CIRCUIT BREAKER INSTALLATION



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This Figure applies to Group 12, Configuration 1:

FIGURE 32: P6-3 PANEL CIRCUIT BREAKER INSTALLATION

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Plug Button	BACP20B63B	4	
2	Install (New)	Circuit Breaker	BACC18AD2	4	C1637 (C3), C1638 (C7), C1639 (F7), C1640 (E7).
3	Install (New)	Marker	BAC27DCC3397	1	
4	Install (New)	Marker	BAC27DCC3398	1	
5	Install (New)	Marker	BAC27DCC3400	1	
6	Install (New)	Marker	BAC27DCC3399	1	
7	Install (New)	Marker	BACT19J4	4	C1637 (C3), C1638 (C7), C1639 (F7), C1640 (E7). Refer to SOPM 20-50-12, as an accepted procedure.

FIGURE 32: P6-3 PANEL CIRCUIT BREAKER INSTALLATION

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FIGURE 33: W0040 WIRE BUNDLE ROUTING

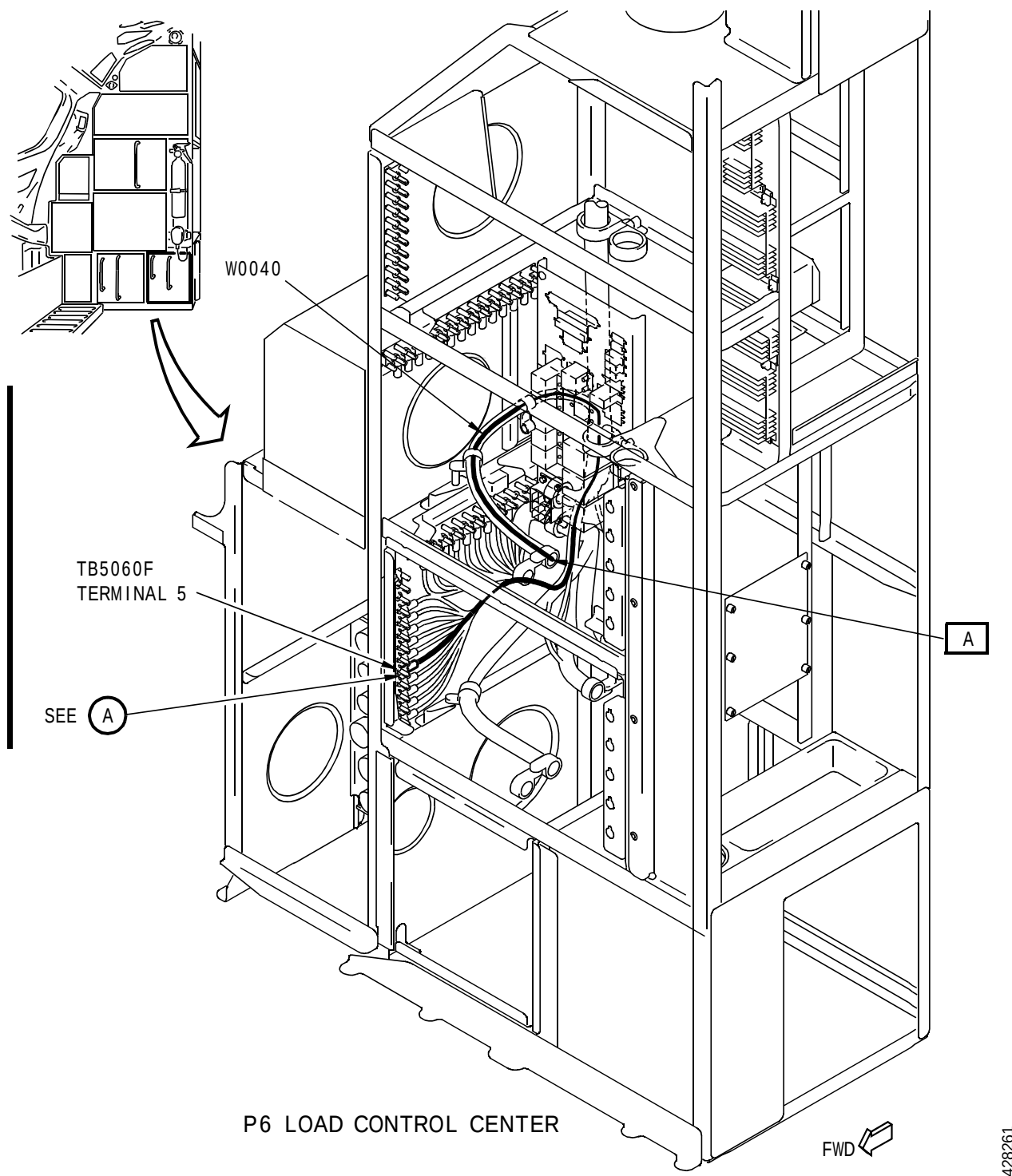


FIGURE 33: W0040 WIRE BUNDLE ROUTING
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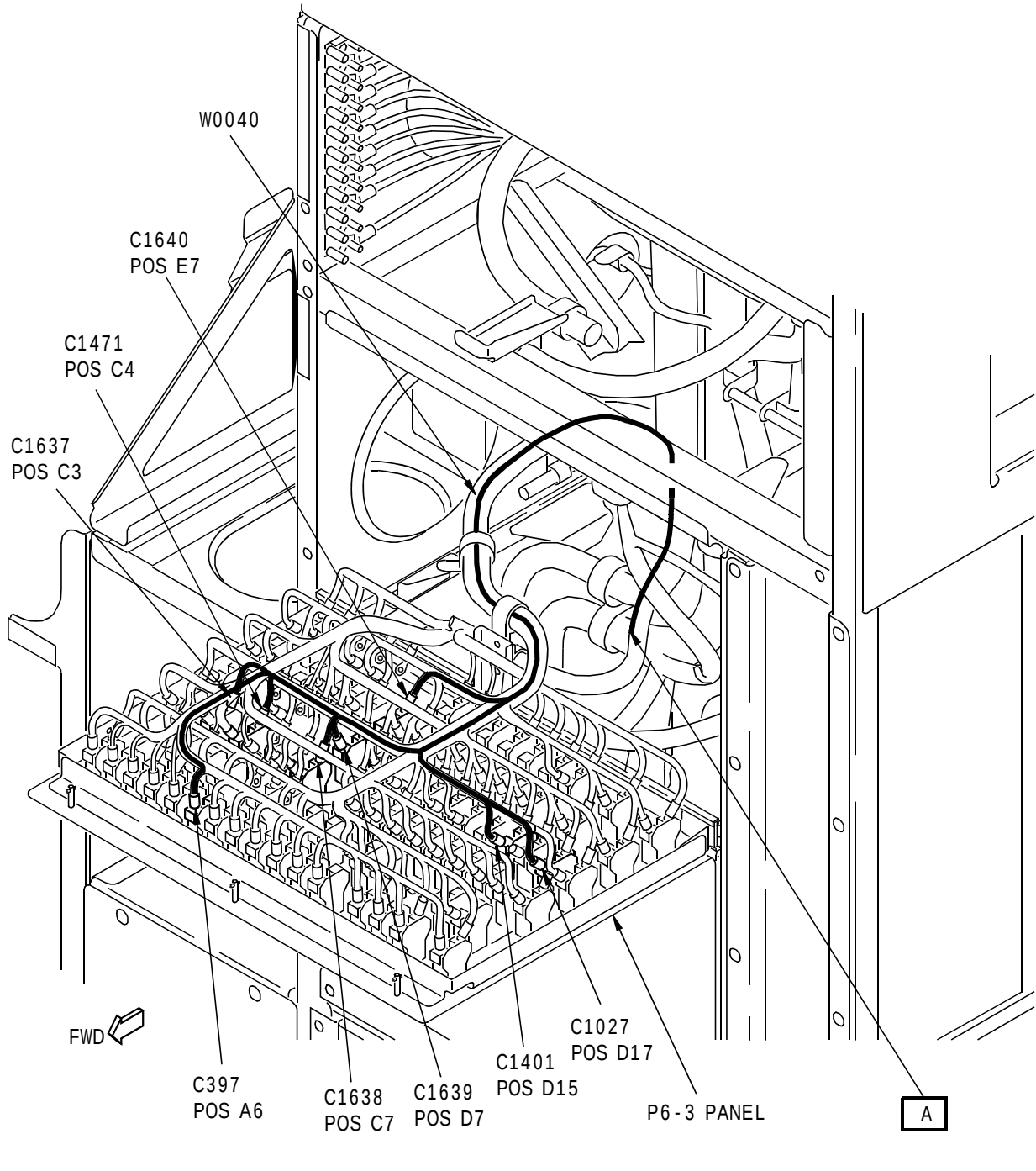


FIGURE 33: W0040 WIRE BUNDLE ROUTING
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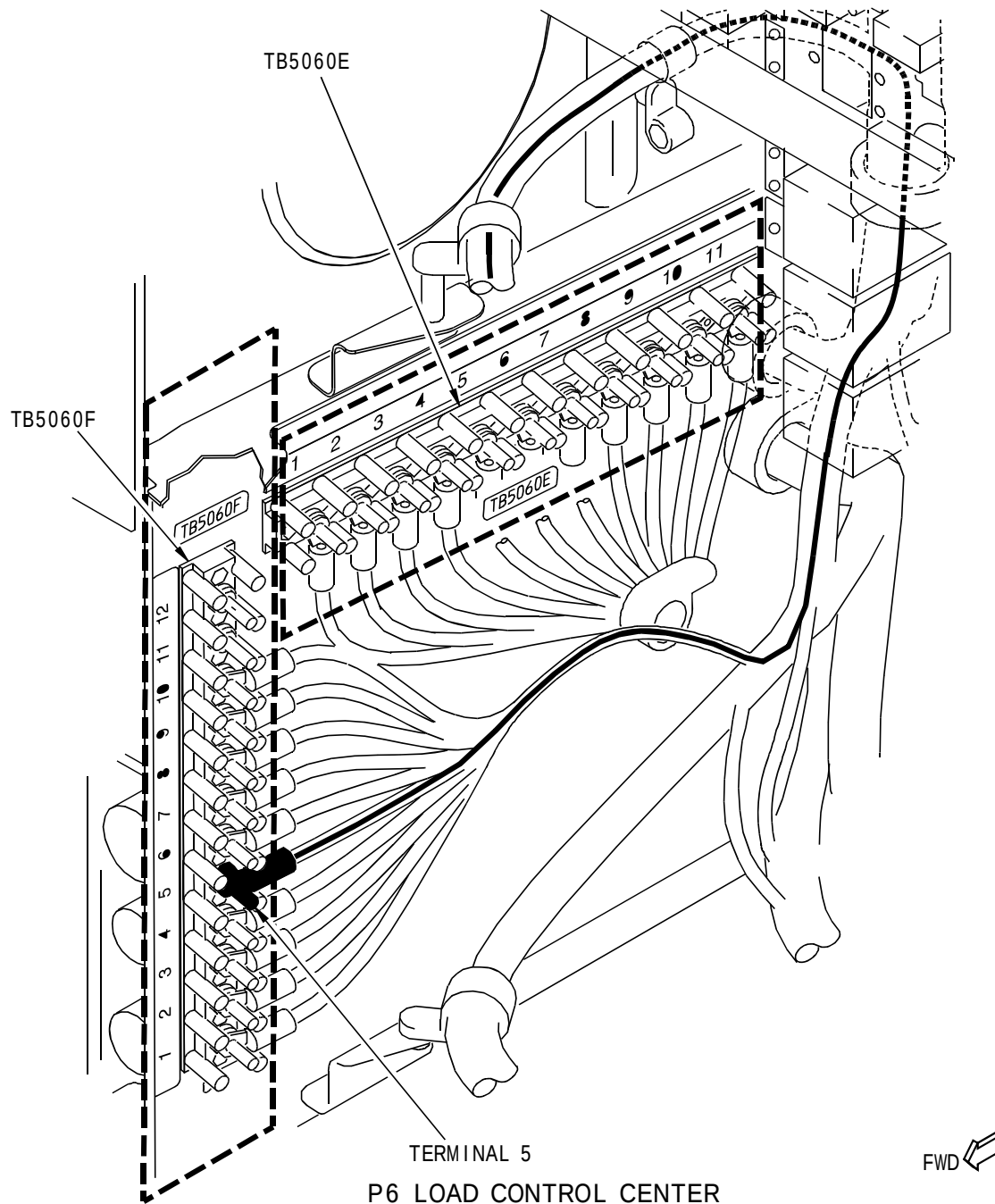
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 33: W0040 WIRE BUNDLE ROUTING
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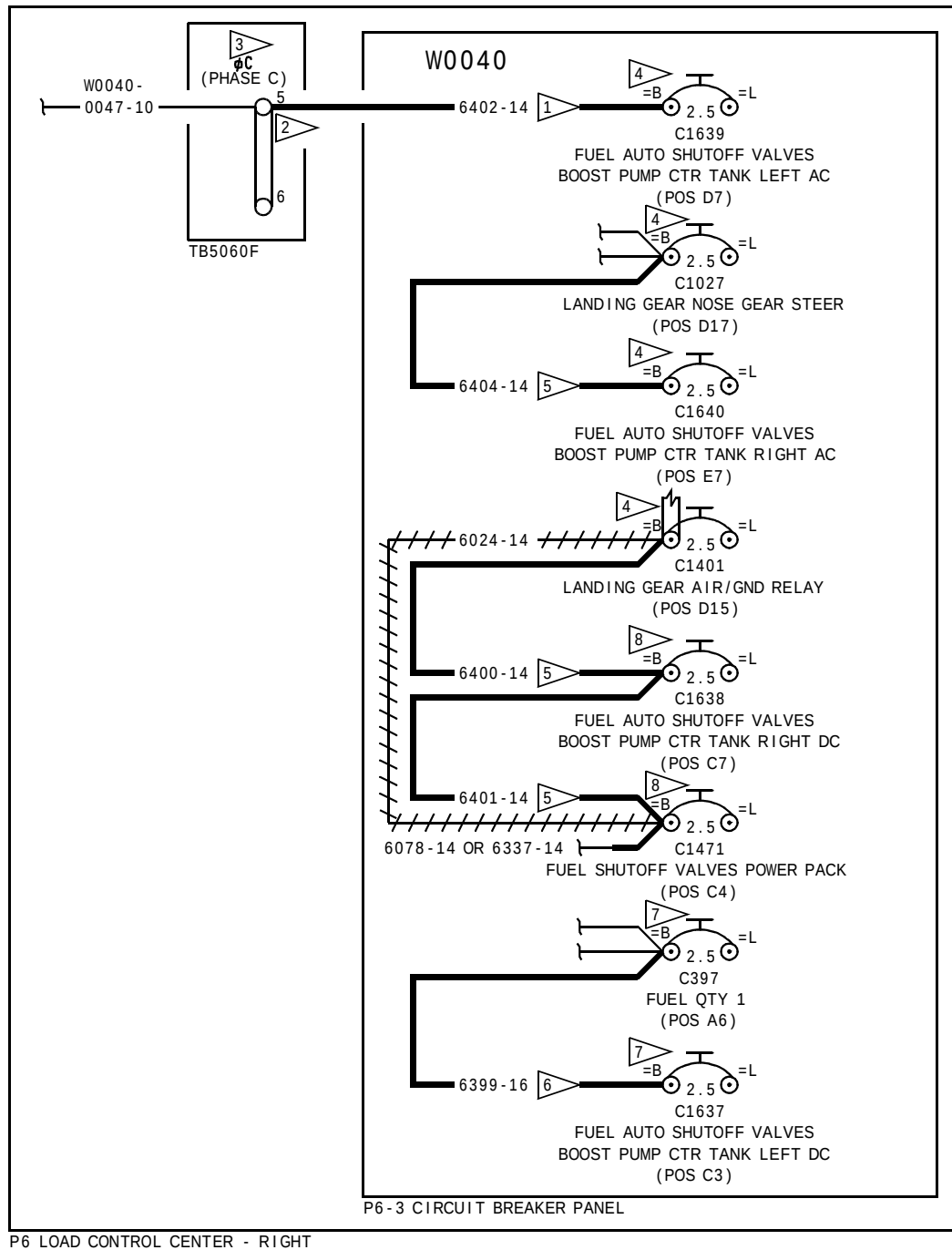
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FIGURE 34: WIRE BUNDLE W0040 WIRING CHANGE



REFERENCE: WIRING DIAGRAMS 24-51-11,
24-51-21, 24-61-22, 24-61-24

— ADDED WIRE OR NEW ROUTING
 /// DELETED WIRE OR FORMER ROUTING
 — EXISTING WIRE

426884

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13,

FIGURE 34: WIRE BUNDLE W0040 WIRING CHANGE
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Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 14	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Terminal Lug	BACT12AC8	1	Refer to SWPM 20-30-11., as an accepted procedure.
3	Sleeve, Phase C	280A3113-10101	1	Refer to SWPM 20-10-14., as an accepted procedure.
4	Terminal Lug	BACT12AR142	4	Refer to SWPM 20-30-11., as an accepted procedure.
5	Wire	BMS13-60, Type 7, Class 1, AWG 14	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
6	Wire	BMS13-58, Type 1, Class 1, AWG 16	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
7	Terminal Lug	BACT12AR162	2	Refer to SWPM 20-30-11., as an accepted procedure.
8	Terminal Lug	BACT12AC56	2	Double stake wires on same terminal lug. Refer to SWPM 20-30-11., as an accepted procedure.

FIGURE 34: WIRE BUNDLE W0040 WIRING CHANGE

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FIGURE 35: W0040 WIRE BUNDLE ROUTING

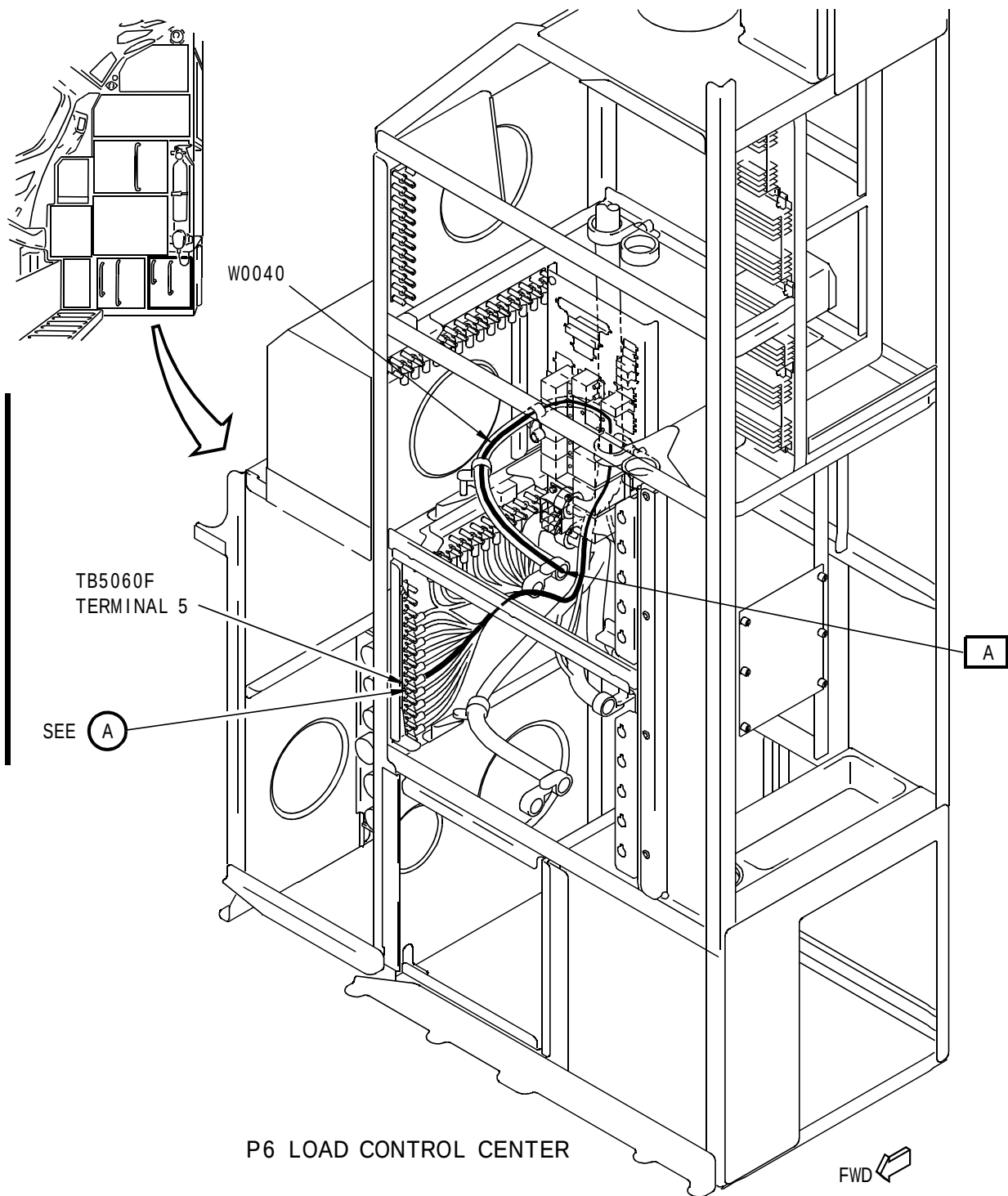


FIGURE 35: W0040 WIRE BUNDLE ROUTING
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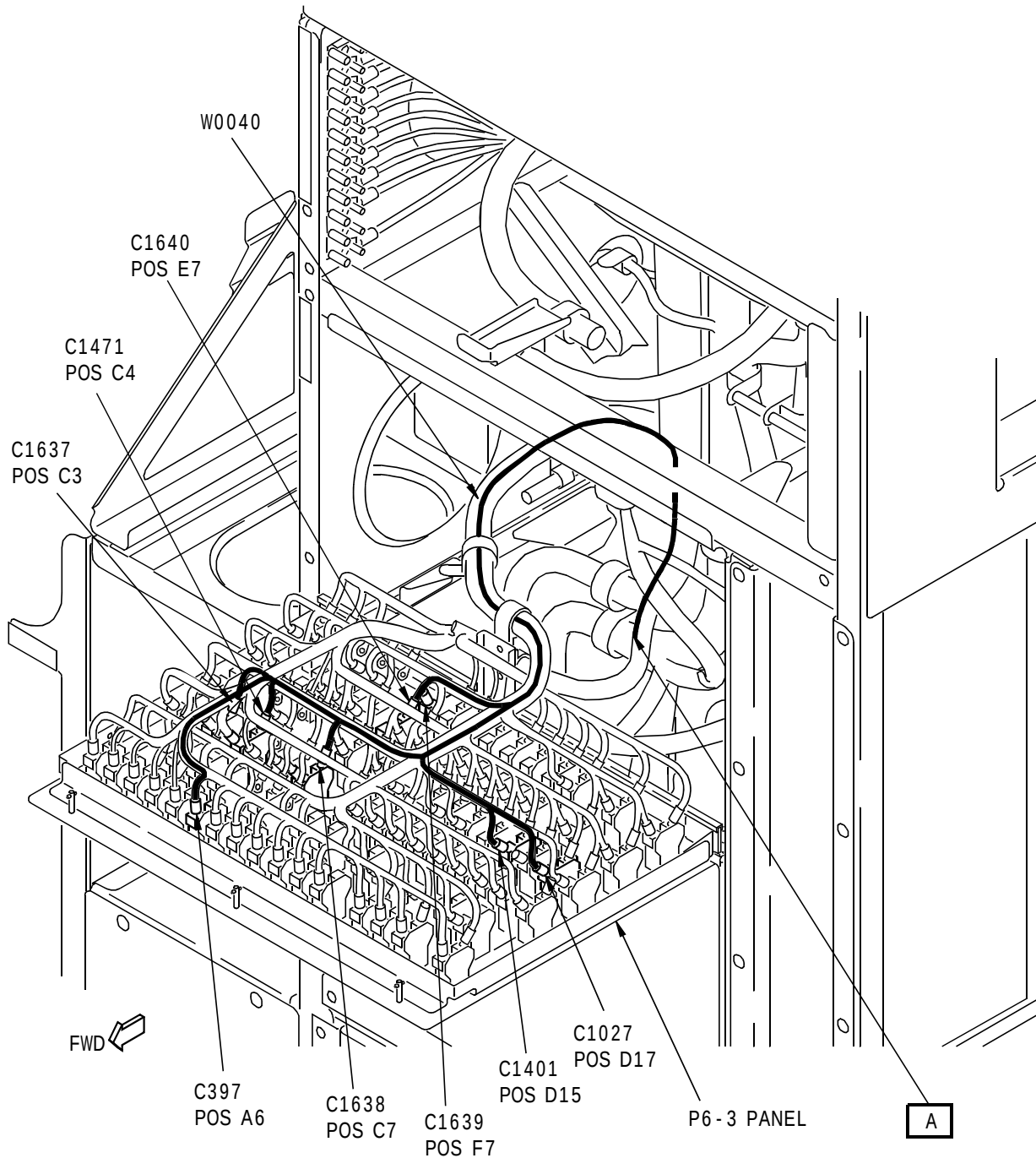
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FIGURE 35: W0040 WIRE BUNDLE ROUTING
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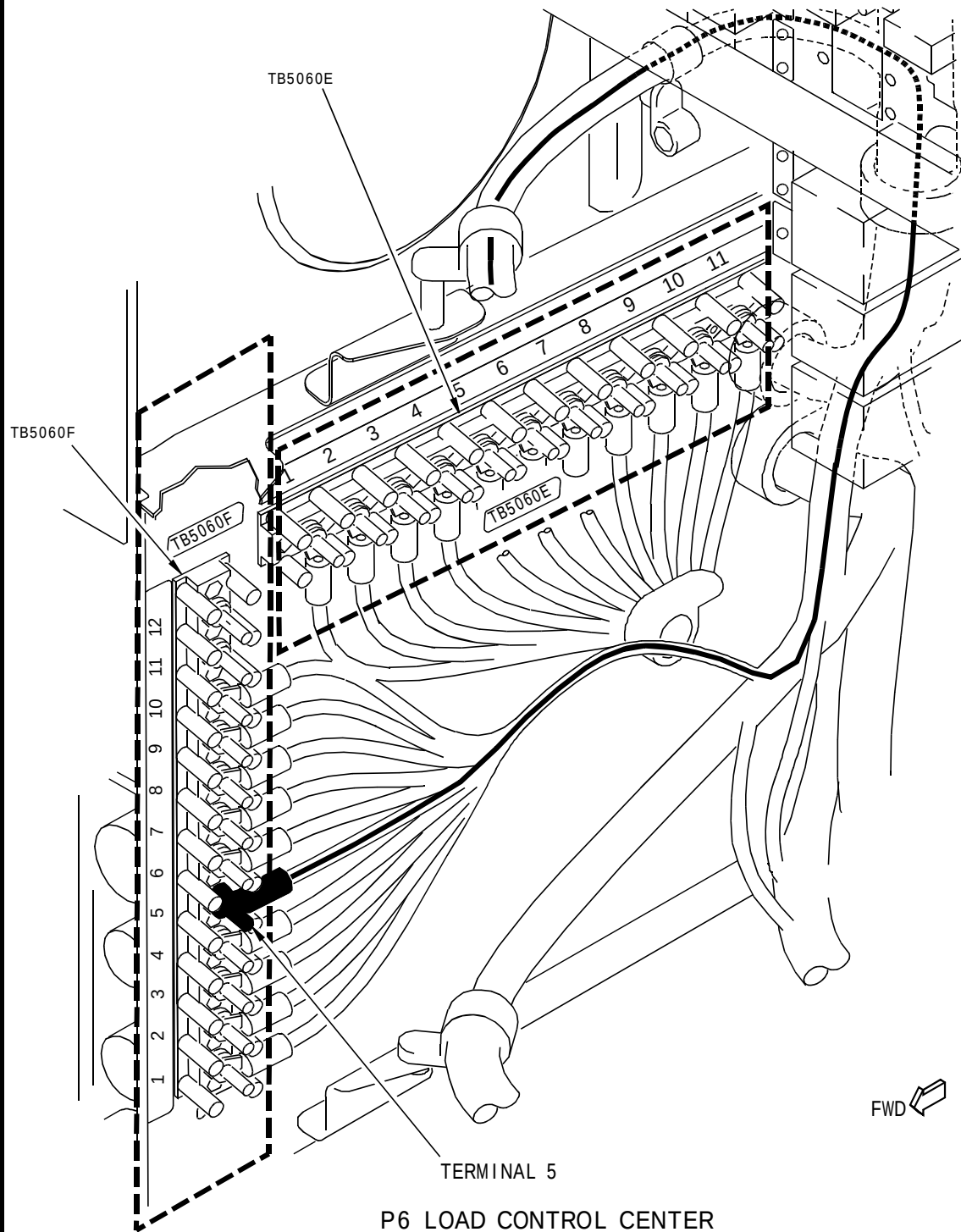
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This Figure applies to Group 12, Configuration 1:

FIGURE 35: W0040 WIRE BUNDLE ROUTING
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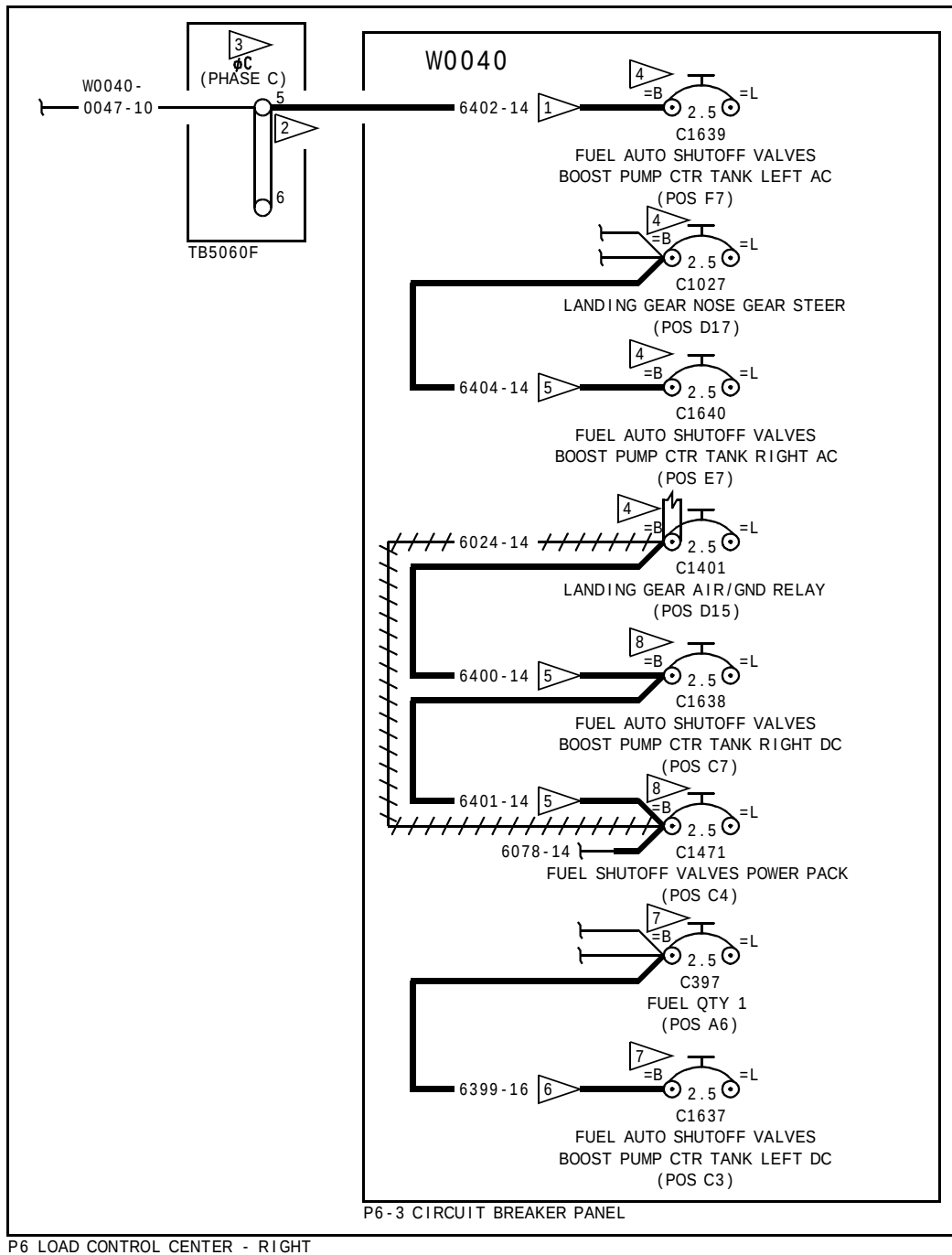
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FIGURE 36: WIRE BUNDLE W0040 WIRING CHANGE



REFERENCE: WIRING DIAGRAMS 24-51-11,
24-51-21, 24-61-22, 24-61-24

— ADDED WIRE OR NEW ROUTING
 + + + DELETED WIRE OR FORMER ROUTING
 — EXISTING WIRE

482691

This Figure applies to Group 12, Configuration 1:

FIGURE 36: WIRE BUNDLE W0040 WIRING CHANGE
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The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 14	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Terminal Lug	BACT12AC8	1	Refer to SWPM 20-30-11., as an accepted procedure.
3	Sleeve, Phase C	280A3113-10101	1	Refer to SWPM 20-10-14., as an accepted procedure.
4	Terminal Lug	BACT12AR142	4	Refer to SWPM 20-30-11., as an accepted procedure.
5	Wire	BMS13-60, Type 7, Class 1, AWG 14	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
6	Wire	BMS13-58, Type 1, Class 1, AWG 16	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
7	Terminal Lug	BACT12AR162	2	Refer to SWPM 20-30-11., as an accepted procedure.
8	Terminal Lug	BACT12AC56	2	Double stake wires on same terminal lug. Refer to SWPM 20-30-11., as an accepted procedure.

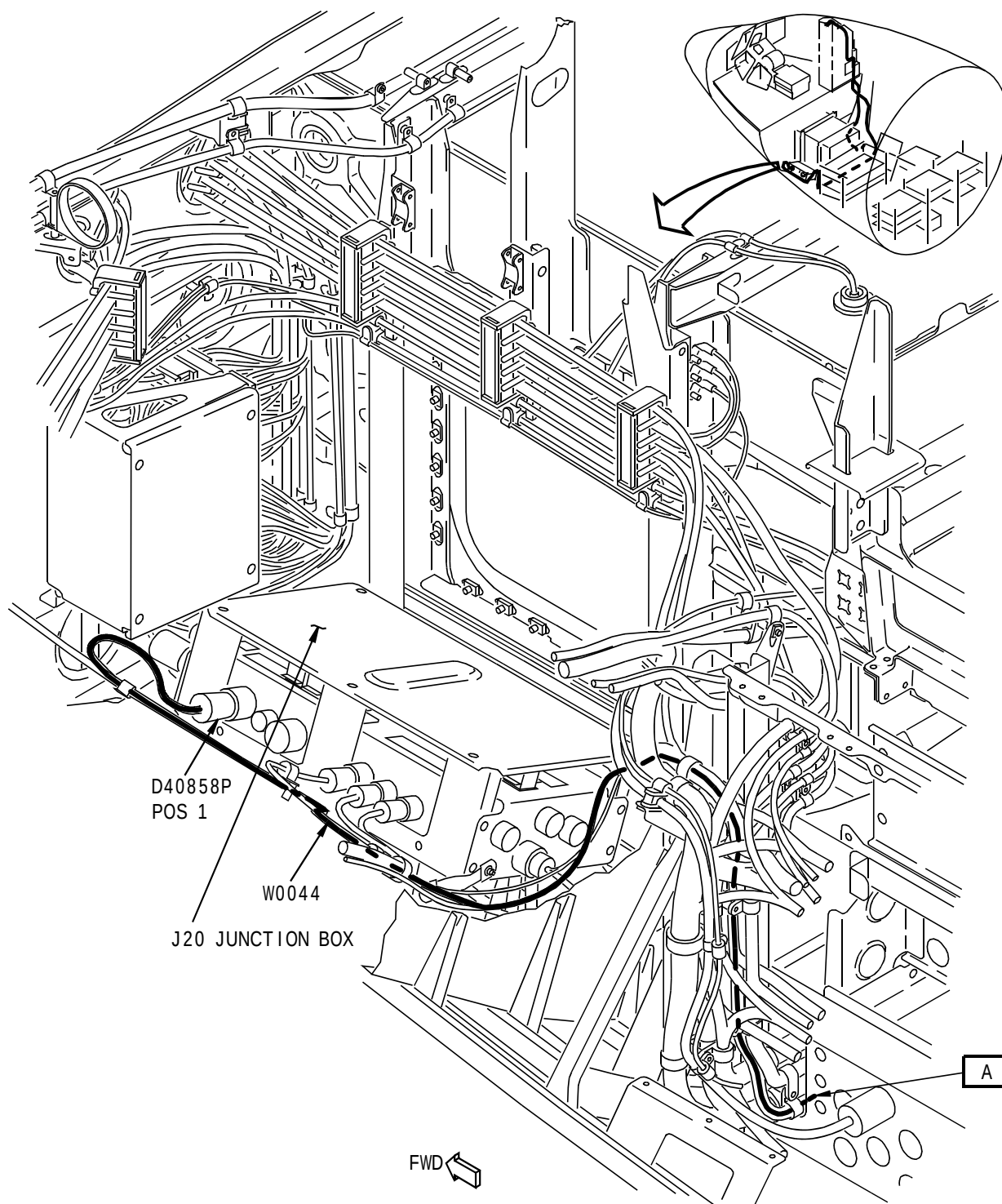
FIGURE 36: WIRE BUNDLE W0040 WIRING CHANGE
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FIGURE 37: W0044 WIRE BUNDLE ROUTING



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FIGURE 37: W0044 WIRE BUNDLE ROUTING
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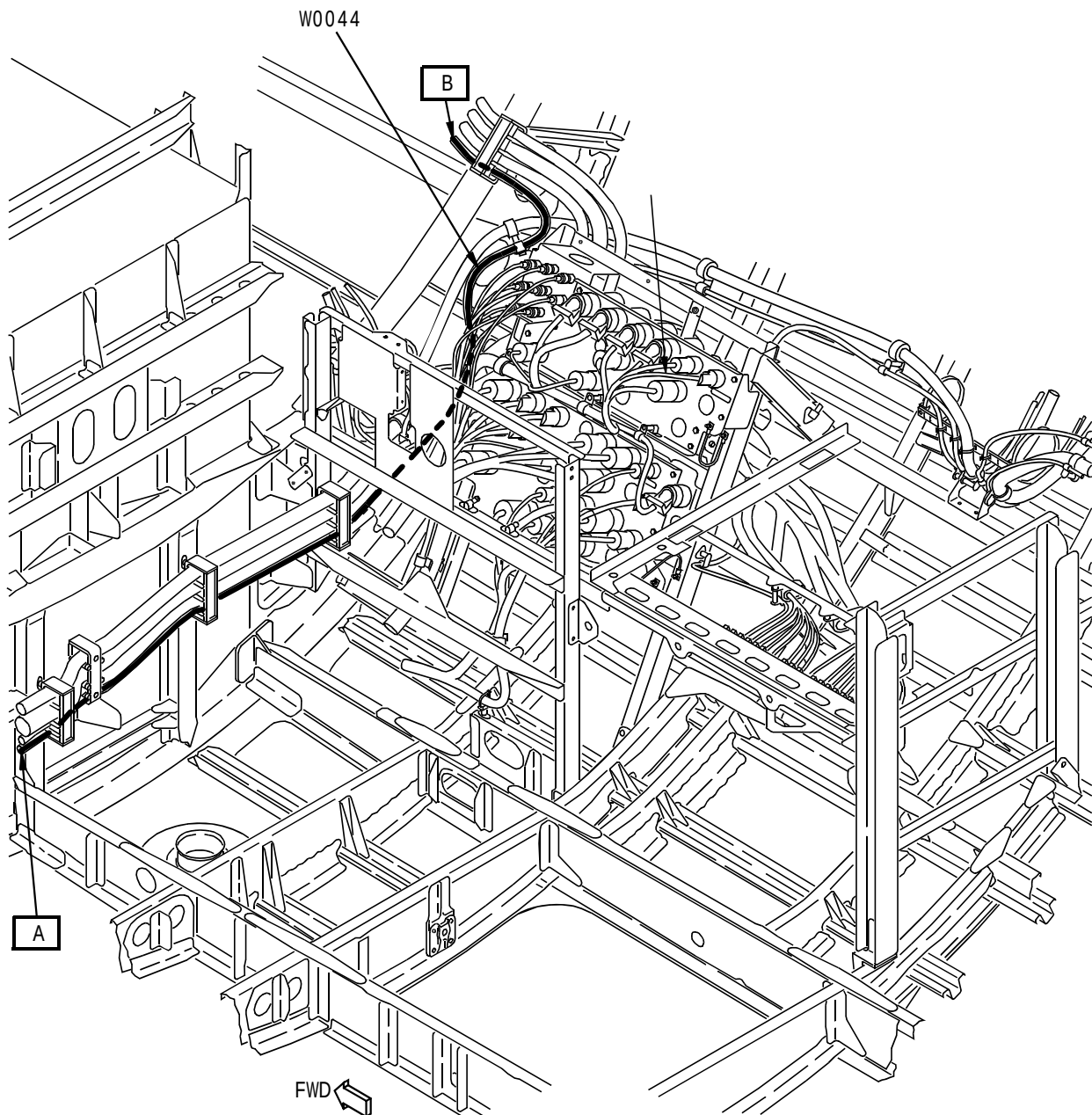


FIGURE 37: W0044 WIRE BUNDLE ROUTING
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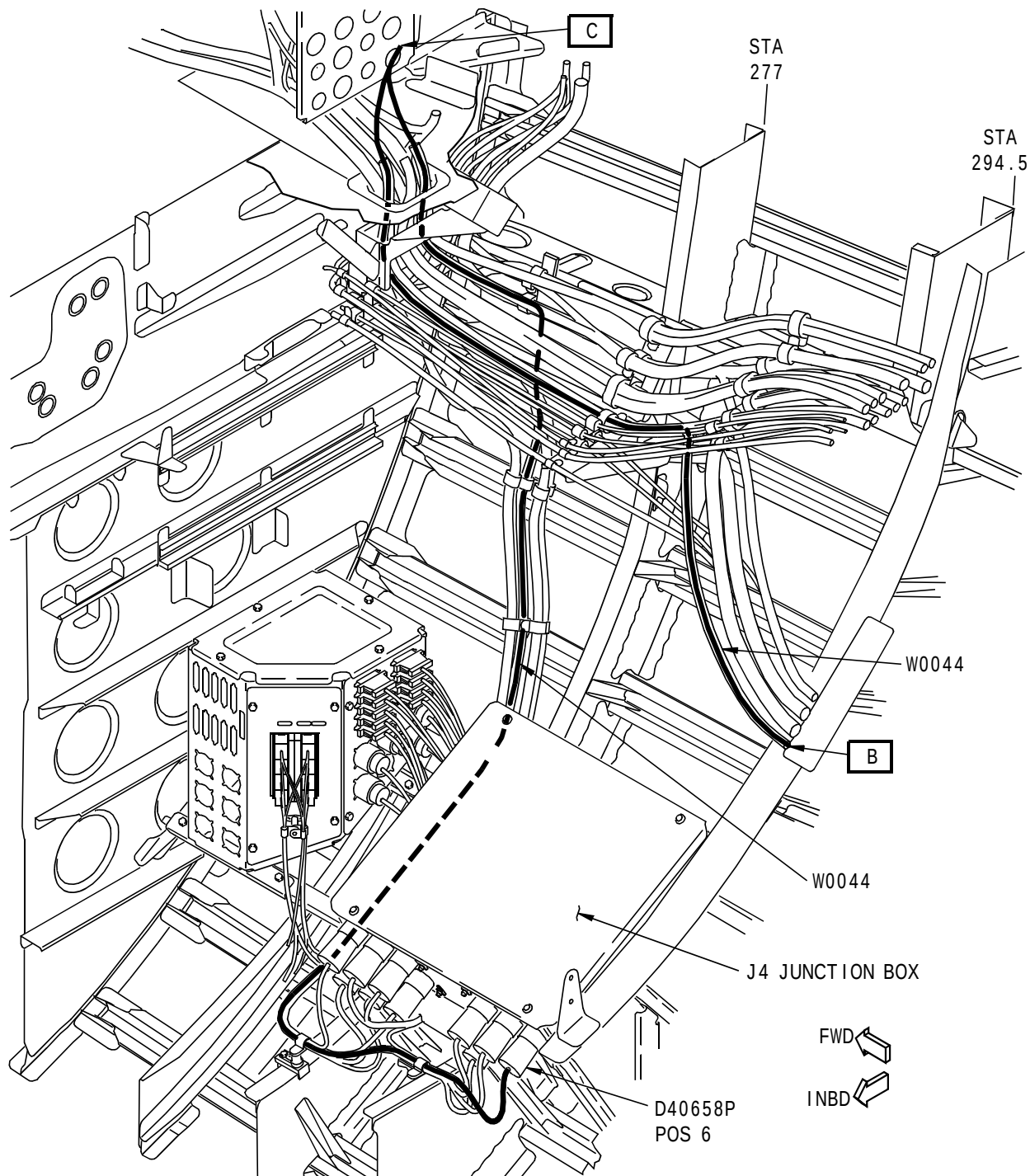
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FIGURE 37: W0044 WIRE BUNDLE ROUTING
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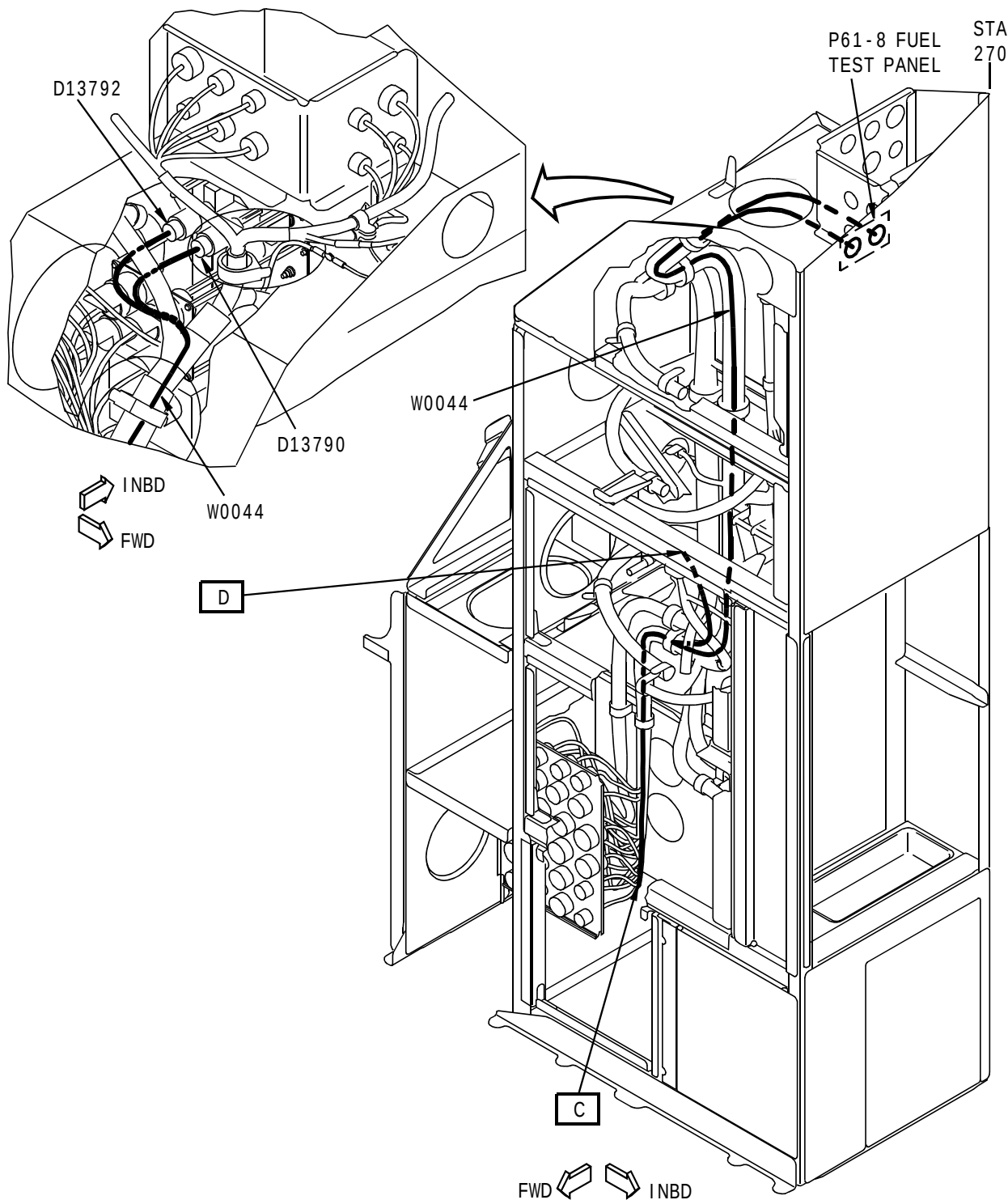


FIGURE 37: W0044 WIRE BUNDLE ROUTING
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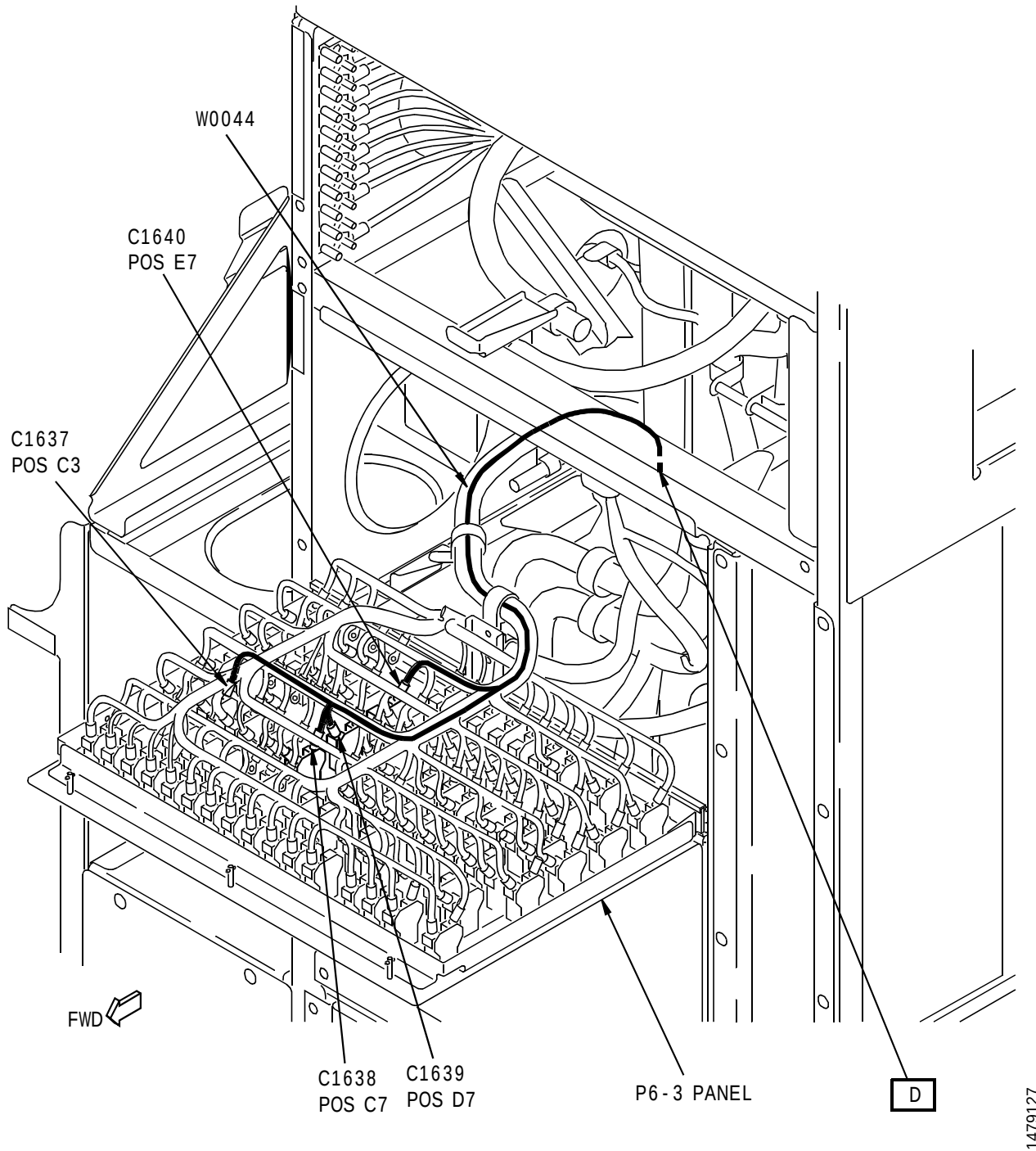
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1:

FIGURE 37: W0044 WIRE BUNDLE ROUTING
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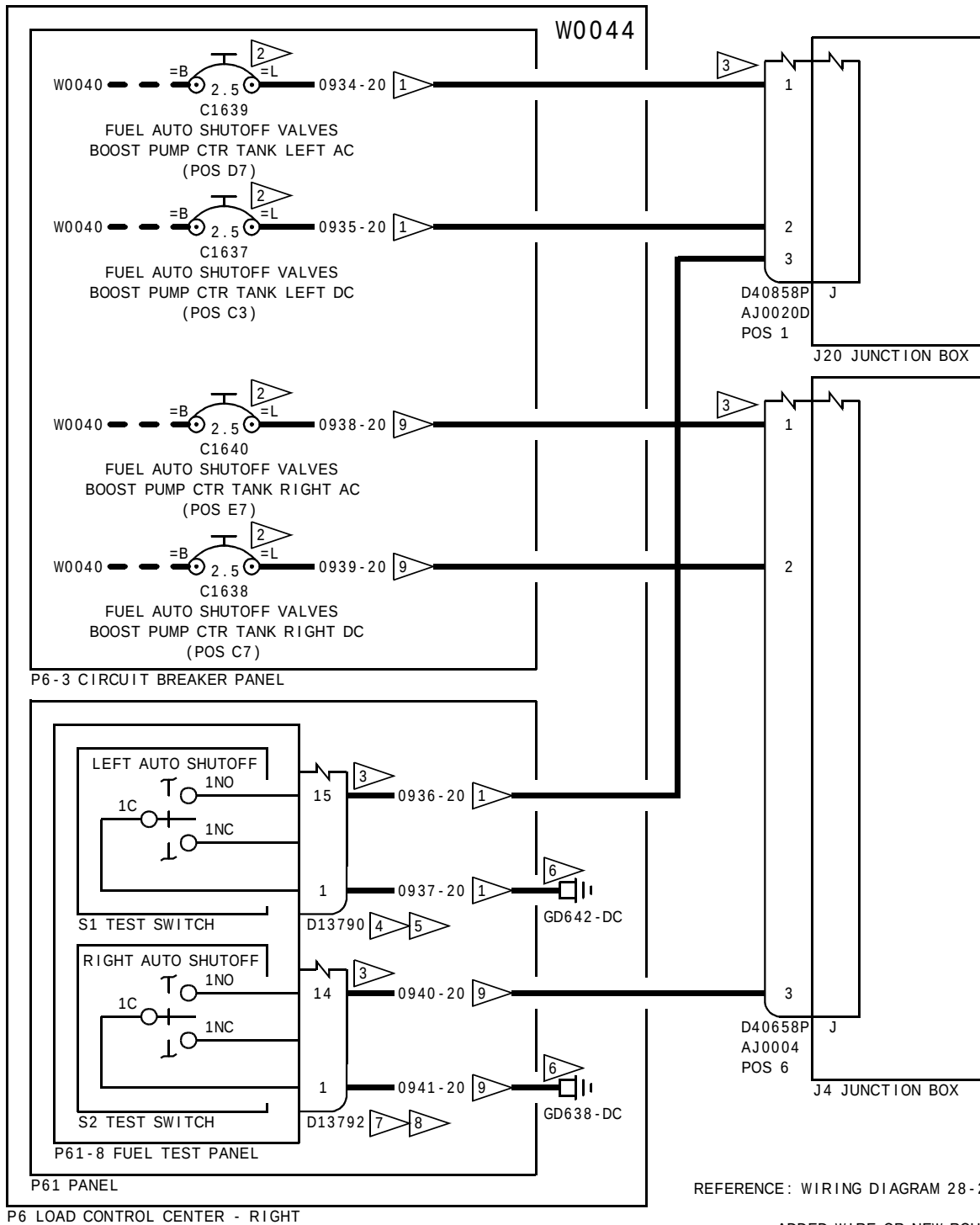
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FIGURE 38: WIRE BUNDLE W0044 WIRING CHANGE



This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1:

FIGURE 38: WIRE BUNDLE W0044 WIRING CHANGE

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The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Terminal Lug	BACT12AR203	4	Refer to SWPM 20-30-11., as an accepted procedure.
3	Socket Contact	BACC47CP1A	10	Refer to SWPM 20-61-11., as an accepted procedure.
4	Connector	BACC45FT14-15S	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
5	I.D. Tape, Connector	280A3113-11201	1	Imprinted "D13790 M/W P61-08 S1 TEST SW - LEFT". Install ID tape within 6 inches of connector.
6	Contact, Pin	S280W555-920	2	Refer to SWPM 20-90-15., as an accepted procedure.
7	Connector	BACC45FT14-15S6	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
8	I.D. Tape, Connector	280A3113-11202	1	Imprinted "D13792 M/W P61-08 S2 TEST SW - RIGHT". Install ID tape within 6 inches of connector.
9	Wire	BMS13-48, Type 10, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.

FIGURE 38: WIRE BUNDLE W0044 WIRING CHANGE**(SHEET 2 OF 2)**

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FIGURE 39: W0044 WIRE BUNDLE ROUTING

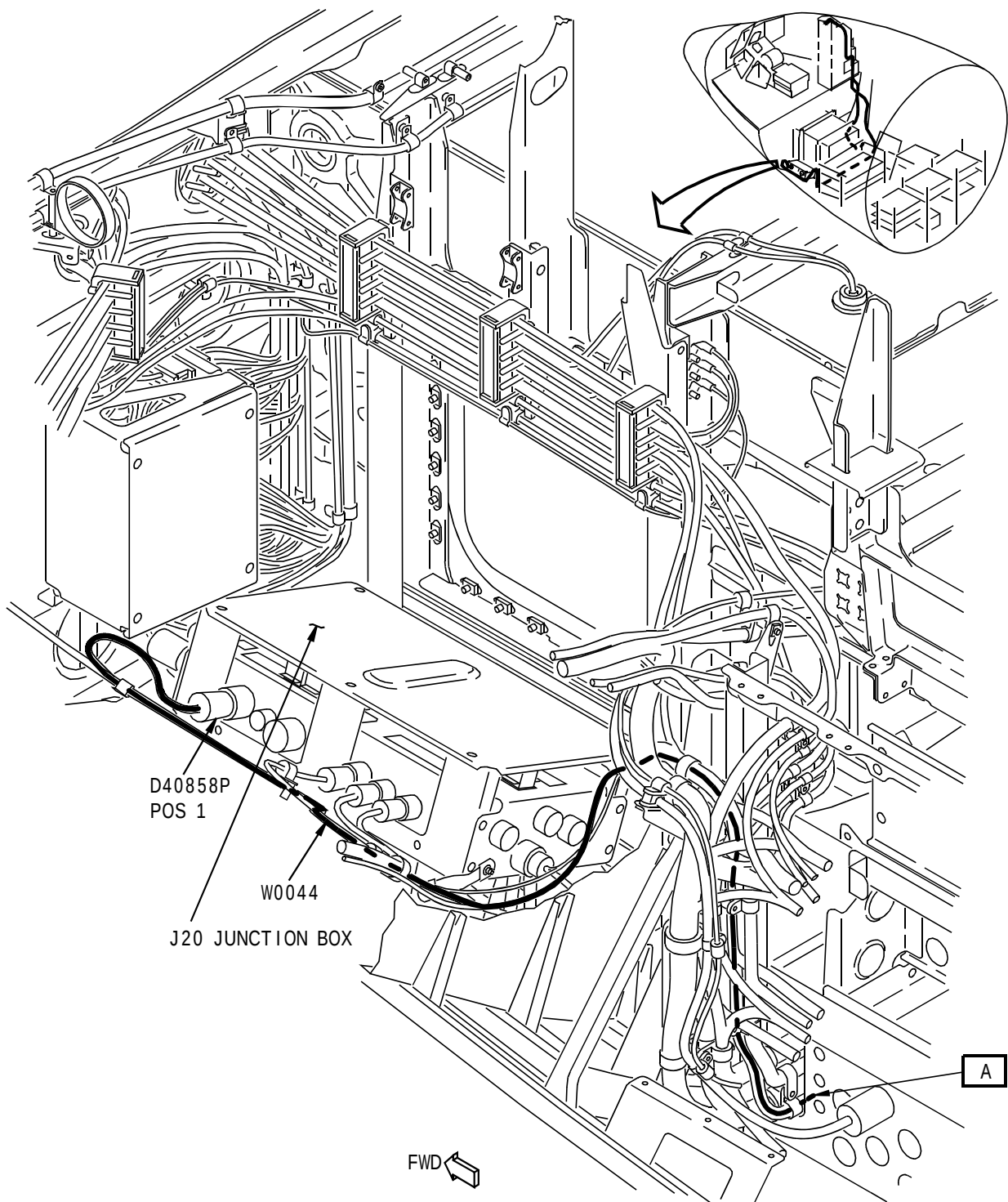


FIGURE 39: W0044 WIRE BUNDLE ROUTING
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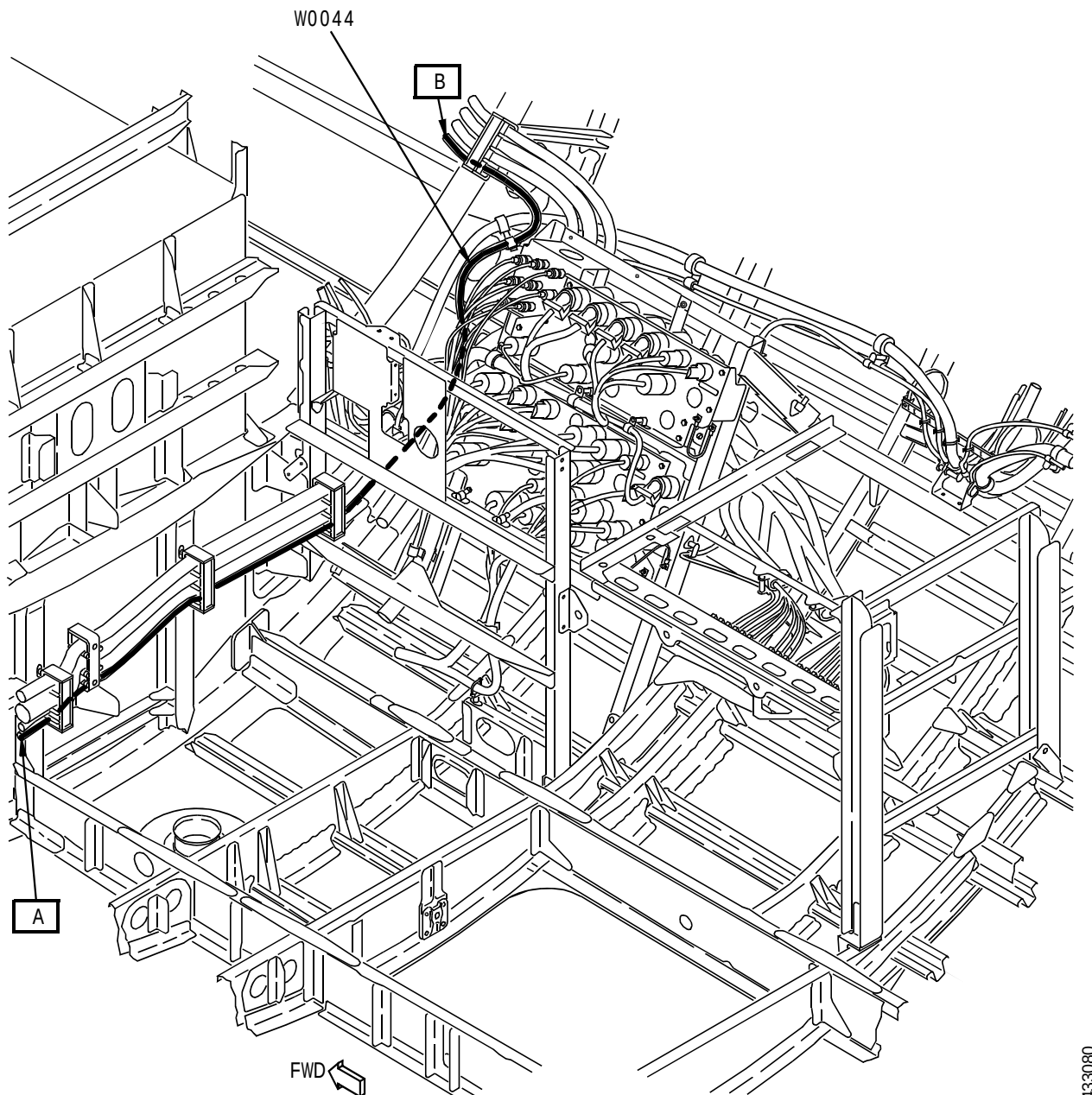
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FIGURE 39: W0044 WIRE BUNDLE ROUTING
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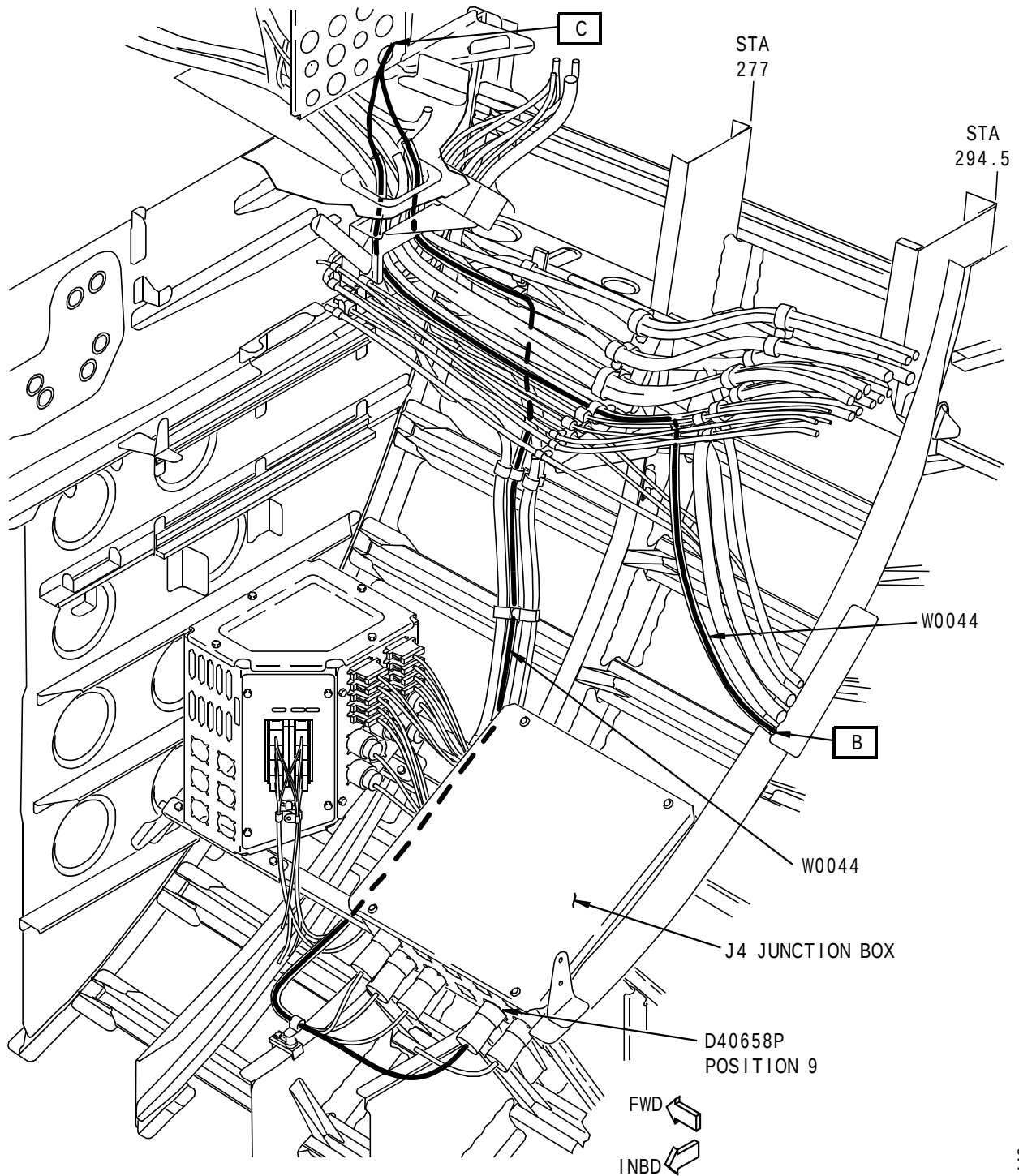


FIGURE 39: W0044 WIRE BUNDLE ROUTING
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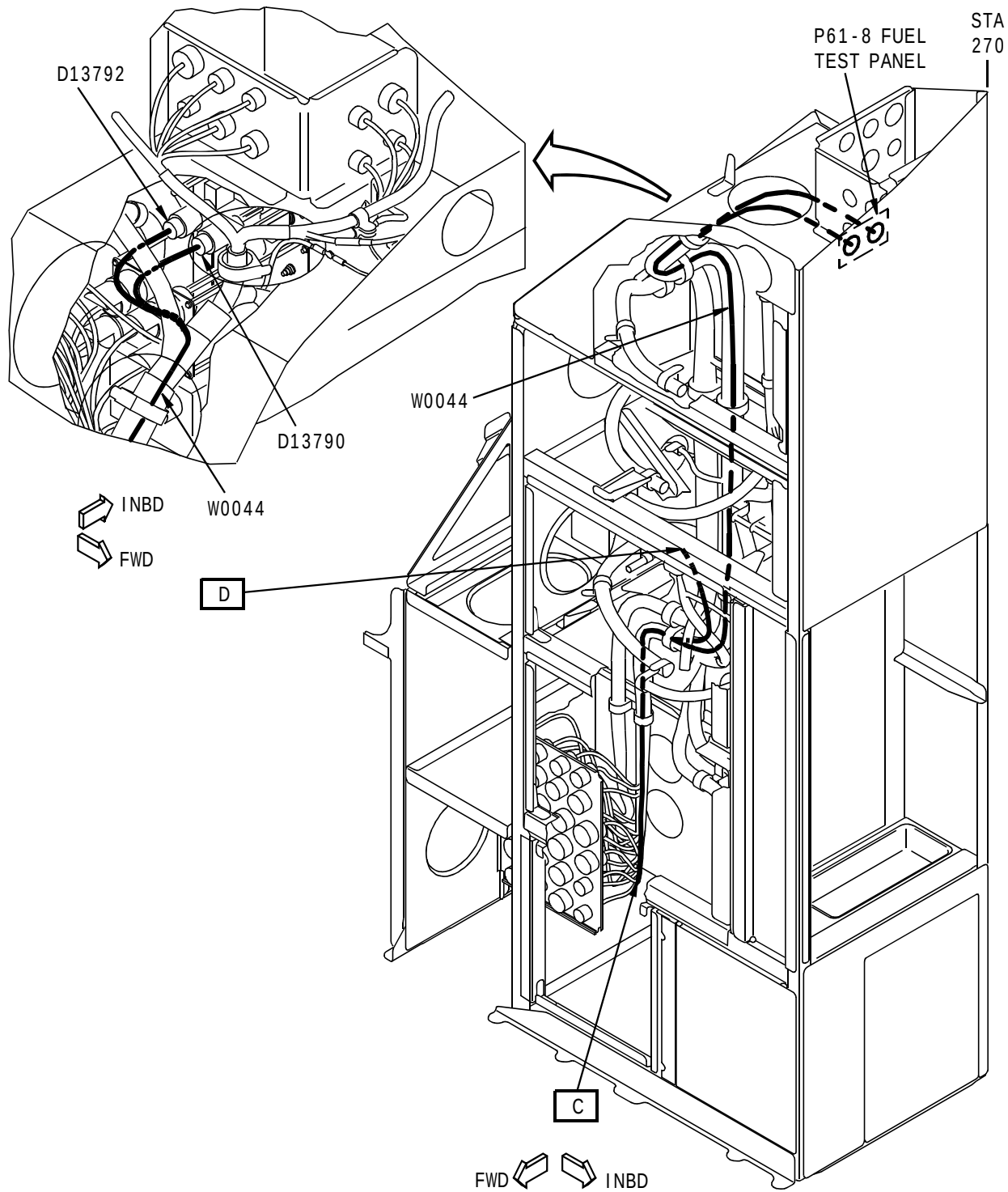
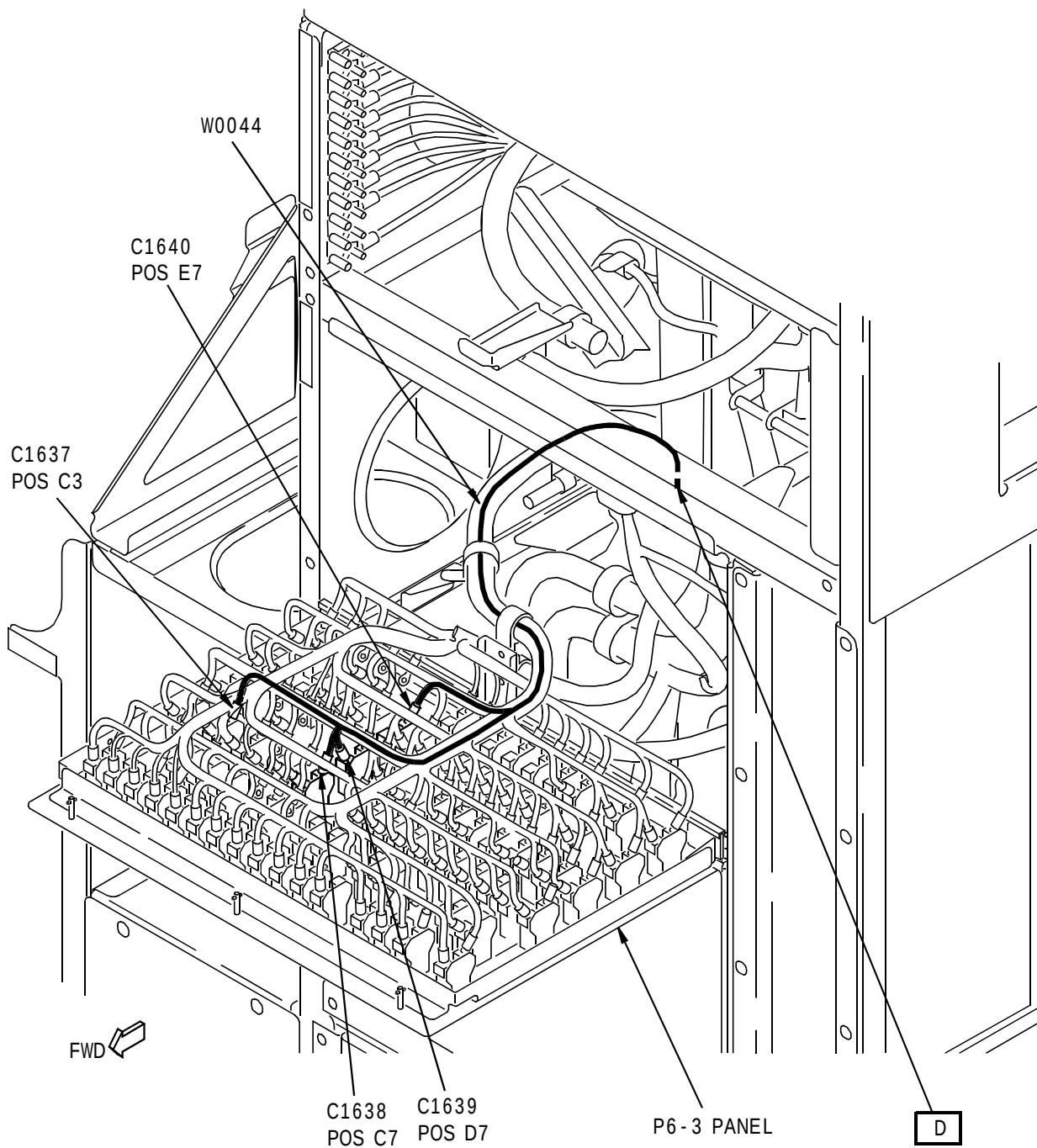


FIGURE 39: W0044 WIRE BUNDLE ROUTING
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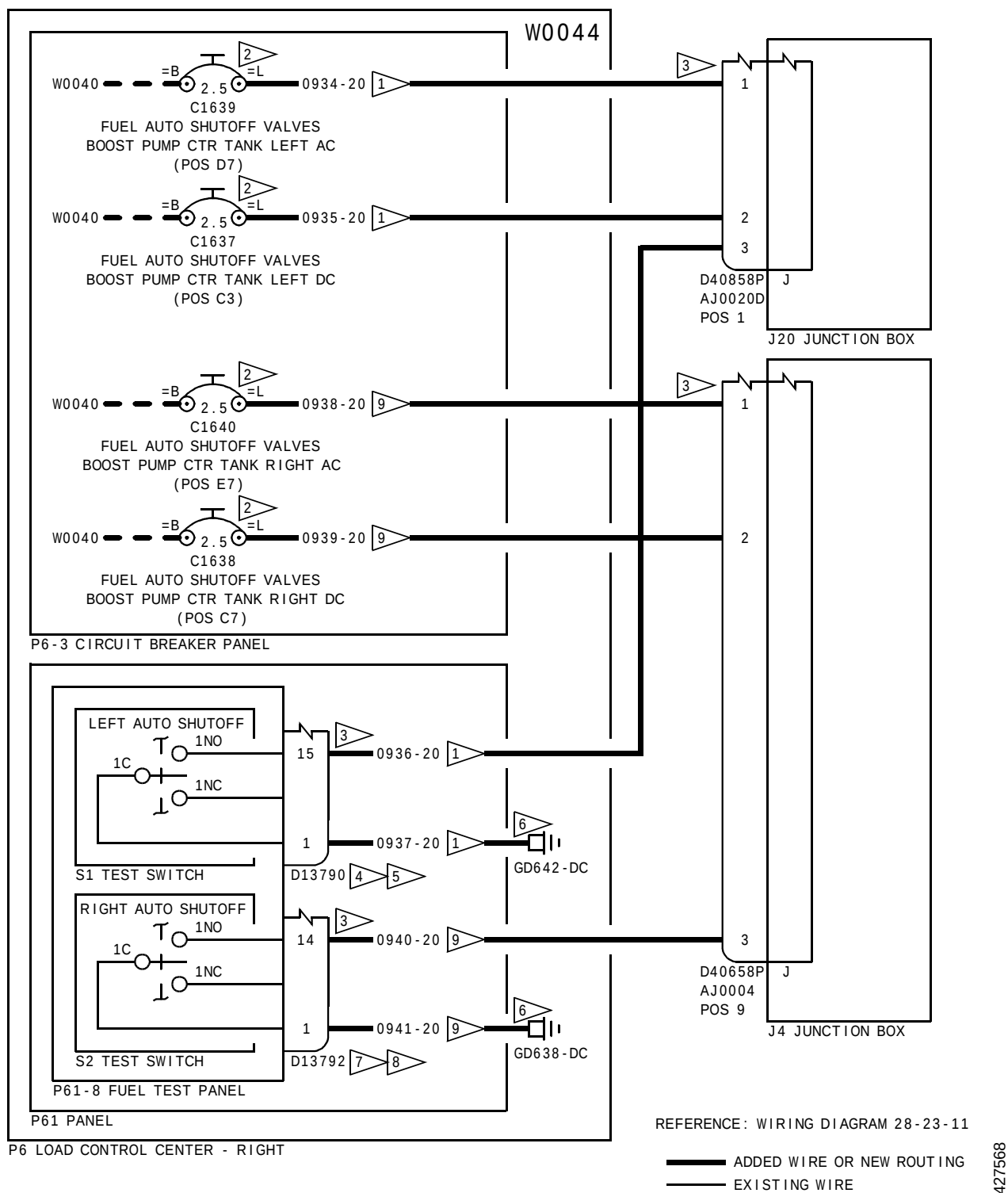
This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1:

FIGURE 39: W0044 WIRE BUNDLE ROUTING
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ALERT**ALERT****FIGURE 40: WIRE BUNDLE W0044 WIRING CHANGE**

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8,

FIGURE 40: WIRE BUNDLE W0044 WIRING CHANGE

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Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Terminal Lug	BACT12AR203	4	Refer to SWPM 20-30-11., as an accepted procedure.
3	Socket Contact	BACC47CP1S	10	Refer to SWPM 20-61-11., as an accepted procedure.
4	Connector	BACC45FT14-15S	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
5	I.D. Tape, Connector	280A3113-11201	1	Imprinted "D13790 M/W P61-08 S1 TEST SW - LEFT". Install ID tape within 6 inches of connector.
6	Contact, Pin	S280W555-920	2	Refer to SWPM 20-90-15., as an accepted procedure.
7	Connector	BACC45FT14-15S6	1	Refer to SWPM 20-61-11.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
8	I.D. Tape, Connector	280A3113-11202	1	Imprinted "D13792 M/W P61-08 S2 TEST SW - RIGHT". Install ID tape within 6 inches of connector.
9	Wire	BMS13-48, Type 10, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.

FIGURE 40: WIRE BUNDLE W0044 WIRING CHANGE

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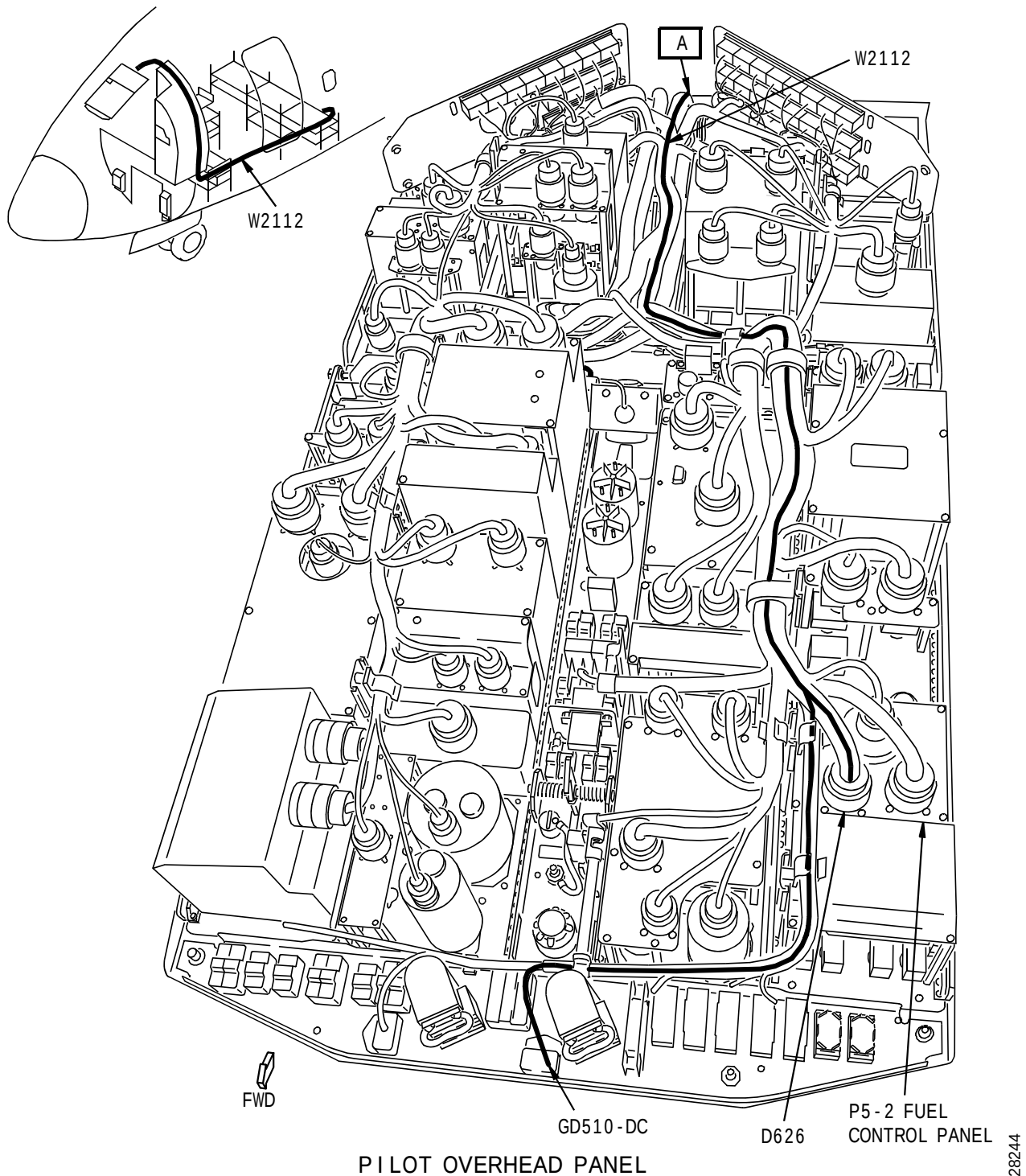
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FIGURE 41: W2112 WIRE BUNDLE ROUTING



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FIGURE 41: W2112 WIRE BUNDLE ROUTING
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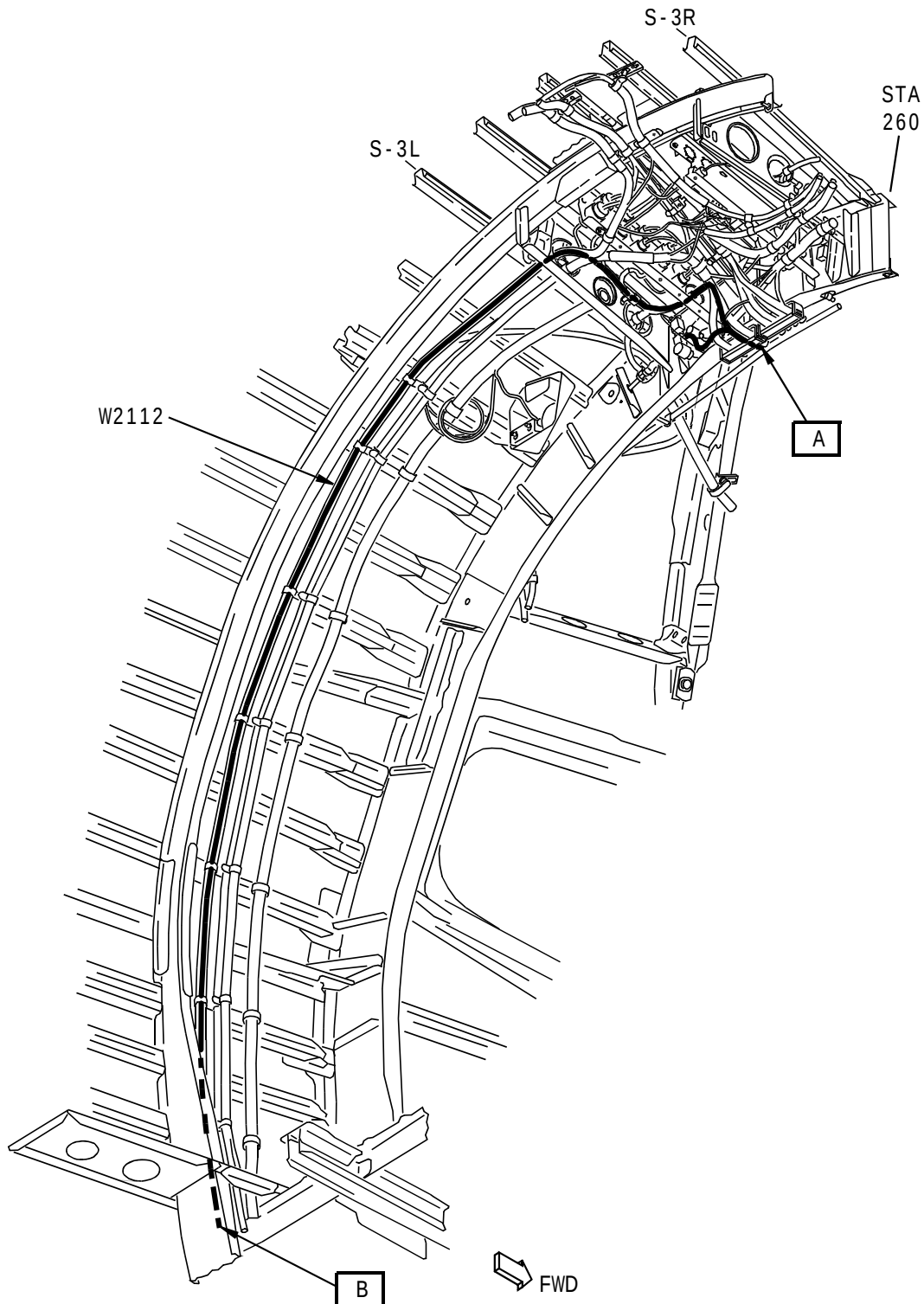


FIGURE 41: W2112 WIRE BUNDLE ROUTING
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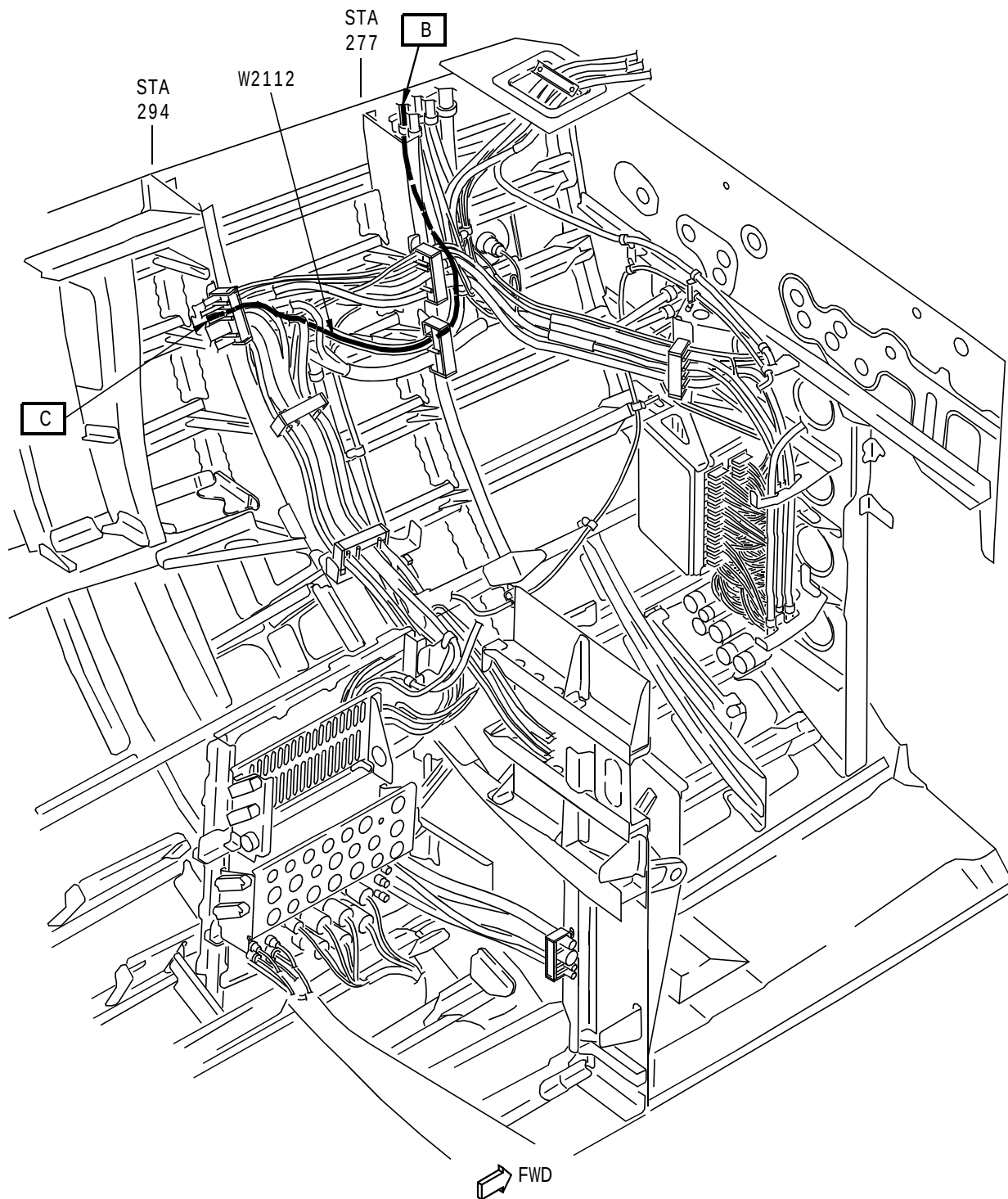
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FIGURE 41: W2112 WIRE BUNDLE ROUTING
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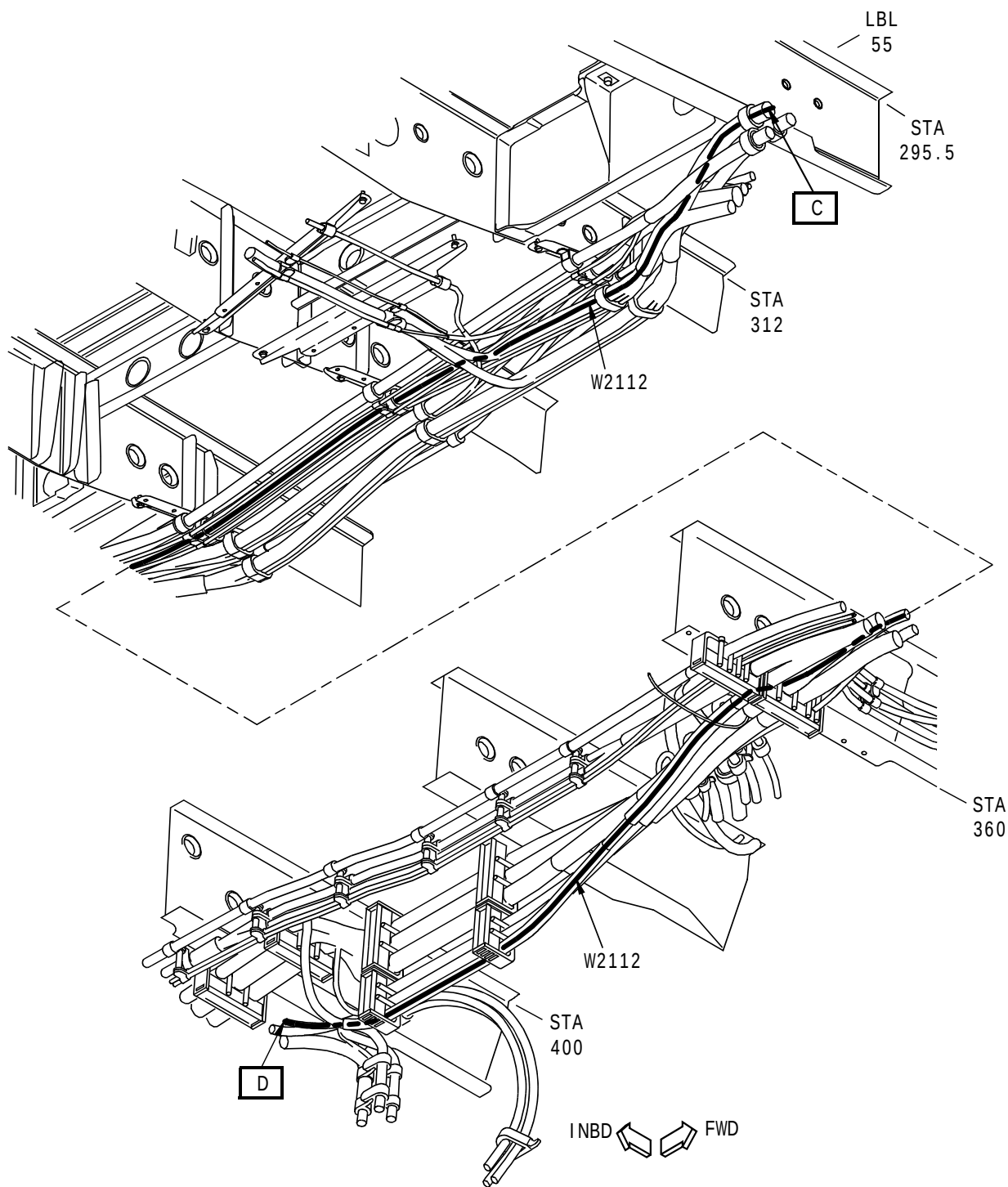
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FIGURE 41: W2112 WIRE BUNDLE ROUTING
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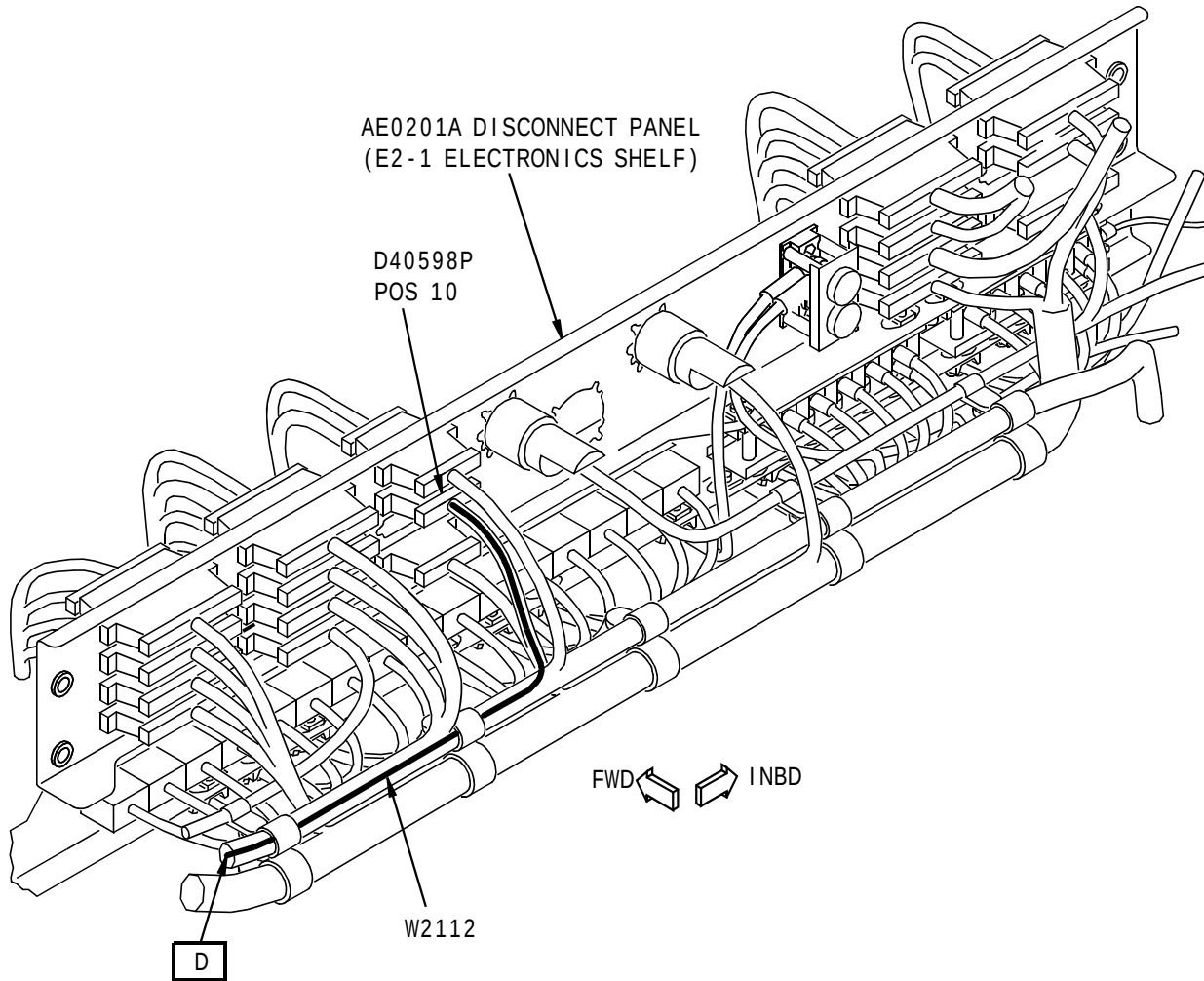
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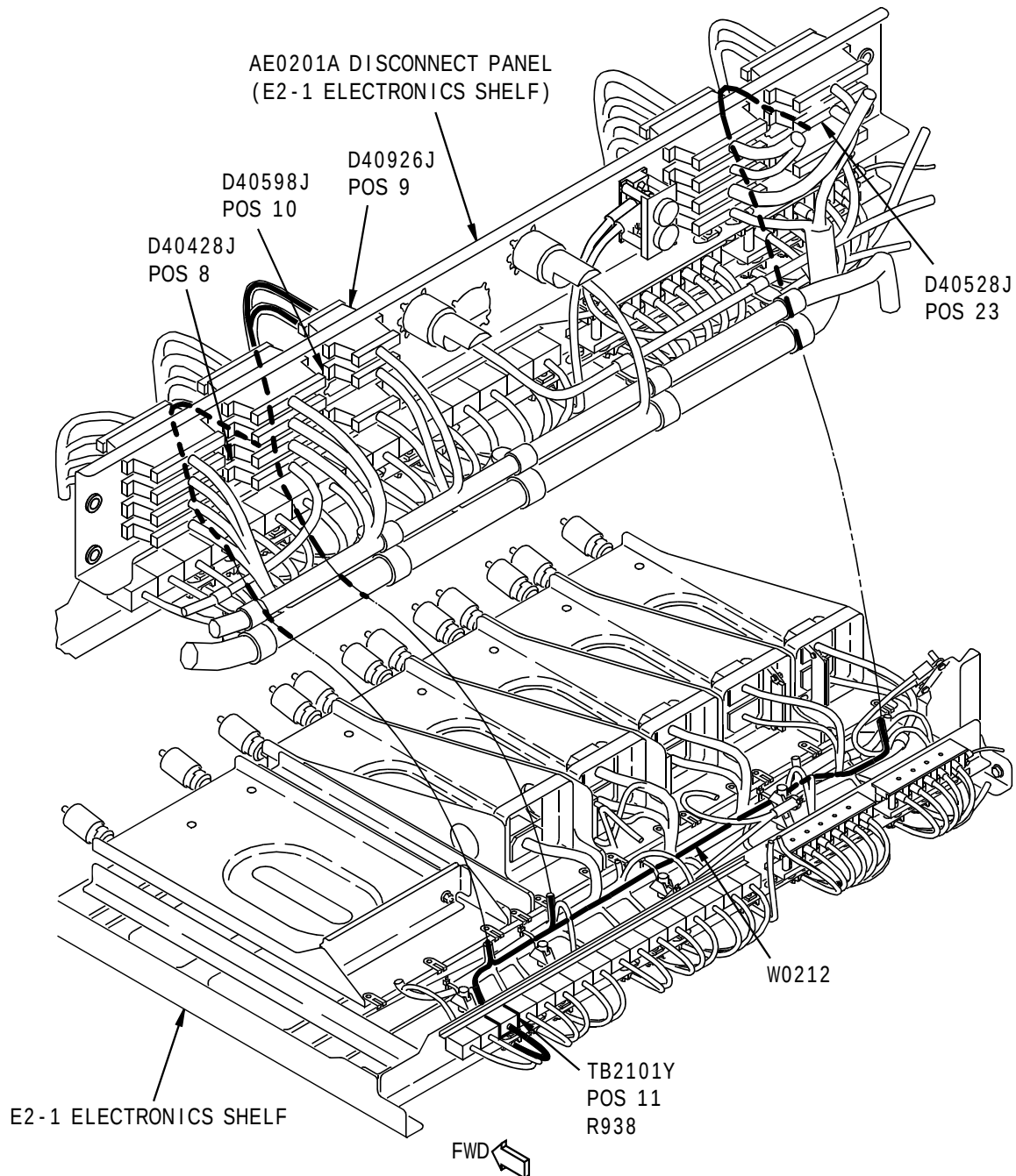
This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 41: W2112 WIRE BUNDLE ROUTING
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FIGURE 42: W0212 WIRE BUNDLE ROUTING



This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 42: W0212 WIRE BUNDLE ROUTING
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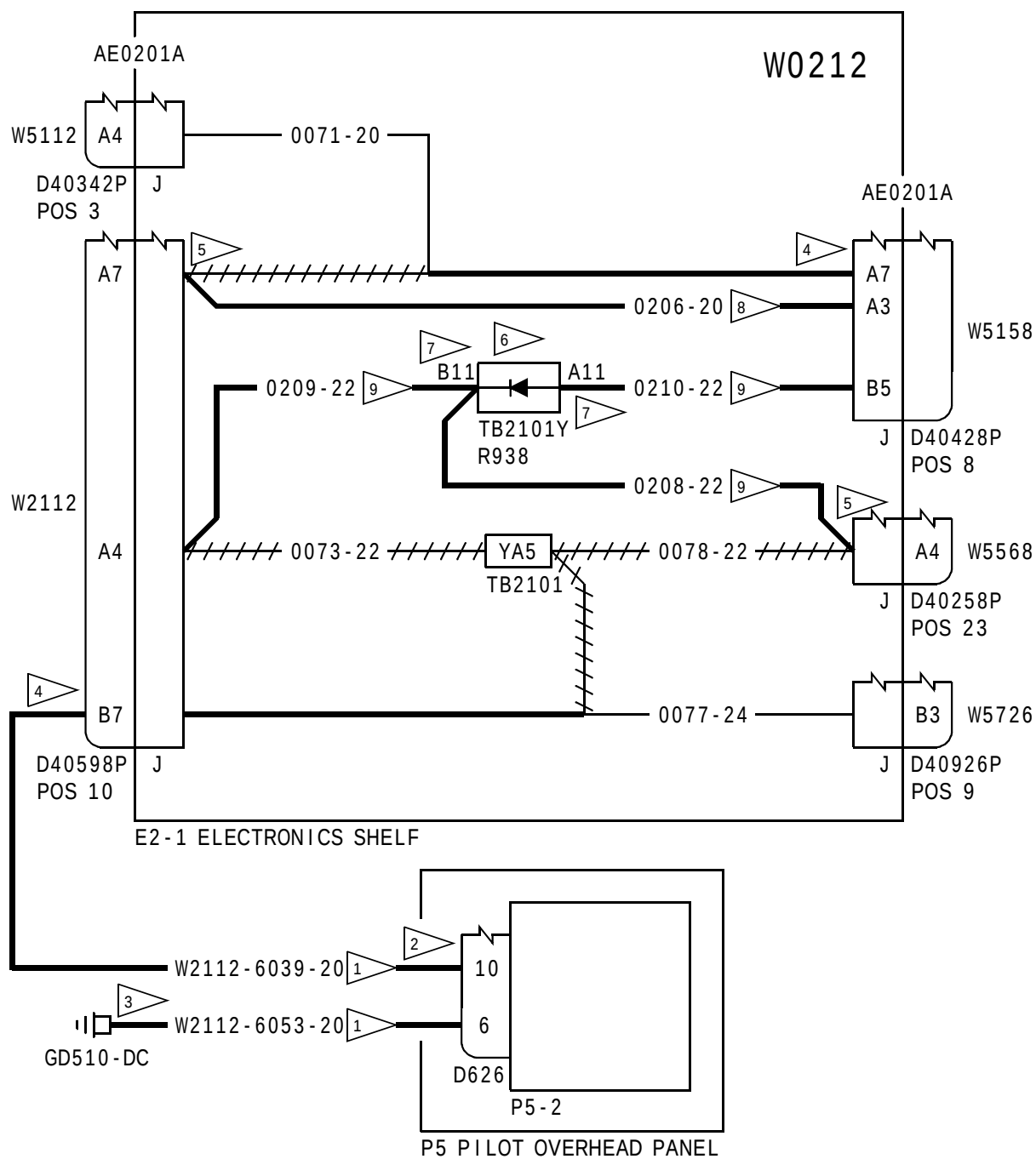
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FIGURE 43: WIRE BUNDLE W0212 AND W2112 WIRING CHANGE



REFERENCE: WIRING DIAGRAMS
28-23-11, 28-43-11, 31-62-14

— ADDED WIRE OR NEW ROUTING
- - - DELETED WIRE OR FORMER ROUTING
— EXISTING WIRE

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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4,

FIGURE 43: WIRE BUNDLE W0212 AND W2112 WIRING CHANGE

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Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58 Type 1, Class 1, AWG 20	2	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19.
2	Socket Contact	BACC47CP1S	2	Refer to SWPM 20-61-11., as an accepted procedure.
3	Pin Contact	M39029/1-102	1	Refer to SWPM 20-83-11., as an accepted procedure.
4	Socket Contact	CTA-0165	4	Refer to SWPM 20-74-11., as an accepted procedure.
5	Pin Contact	CTA-0166	4	Refer to SWPM 20-74-11., as an accepted procedure.
6	Terminal Module	S280W555-753	1	Refer to SWPM 20-90-15., as an accepted procedure.
7	Terminal Pin Contact	S280W555-920	3	Refer to SWPM 20-90-15., as an accepted procedure.
8	Wire	BMS13-60, Type 1, Class 1, AWG 20	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
9	Wire	BMS13-58, Type 1, Class 1, AWG 22	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.

FIGURE 43: WIRE BUNDLE W0212 AND W2112 WIRING CHANGE

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FIGURE 44: W2218 WIRE BUNDLE ROUTING

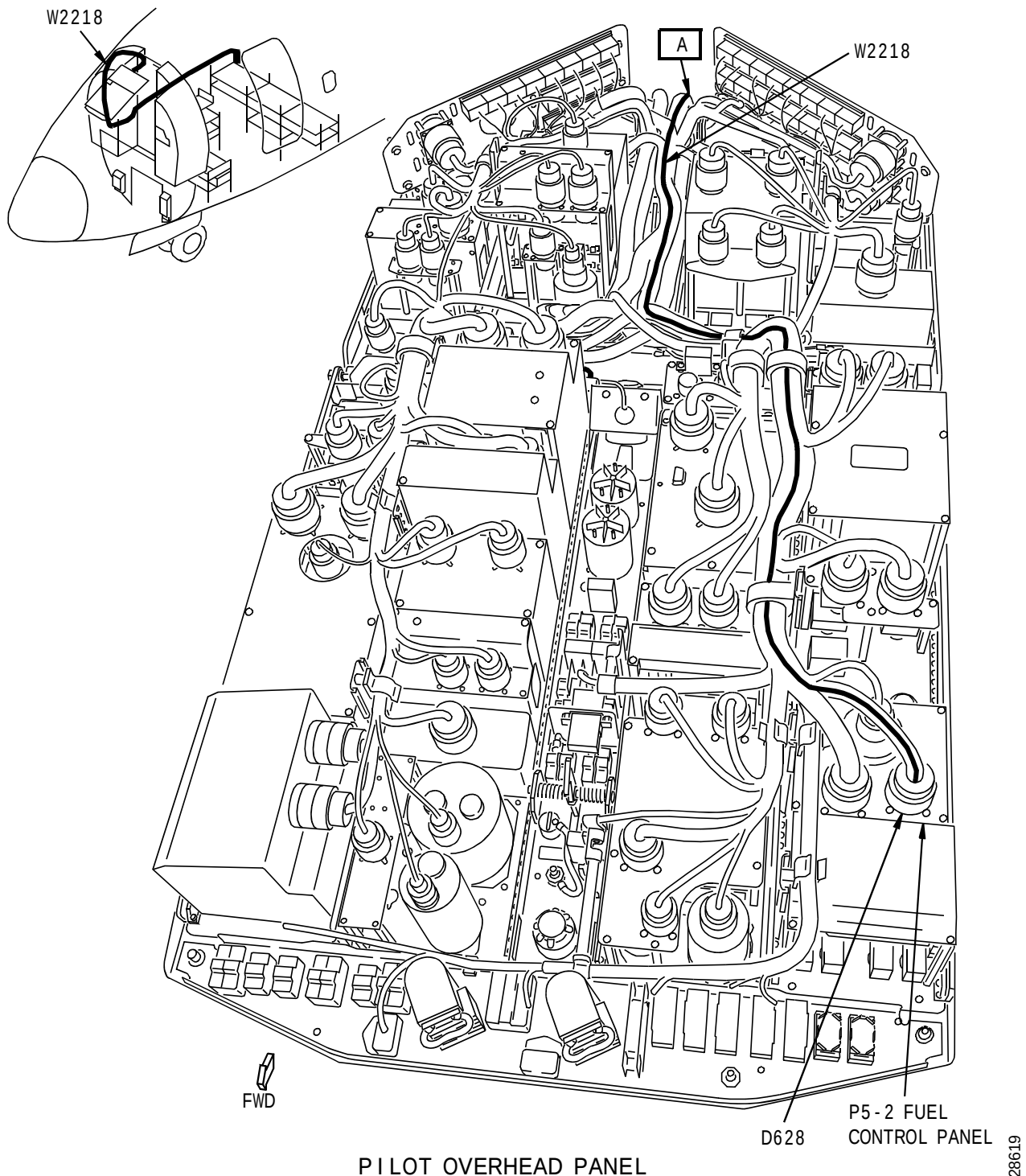
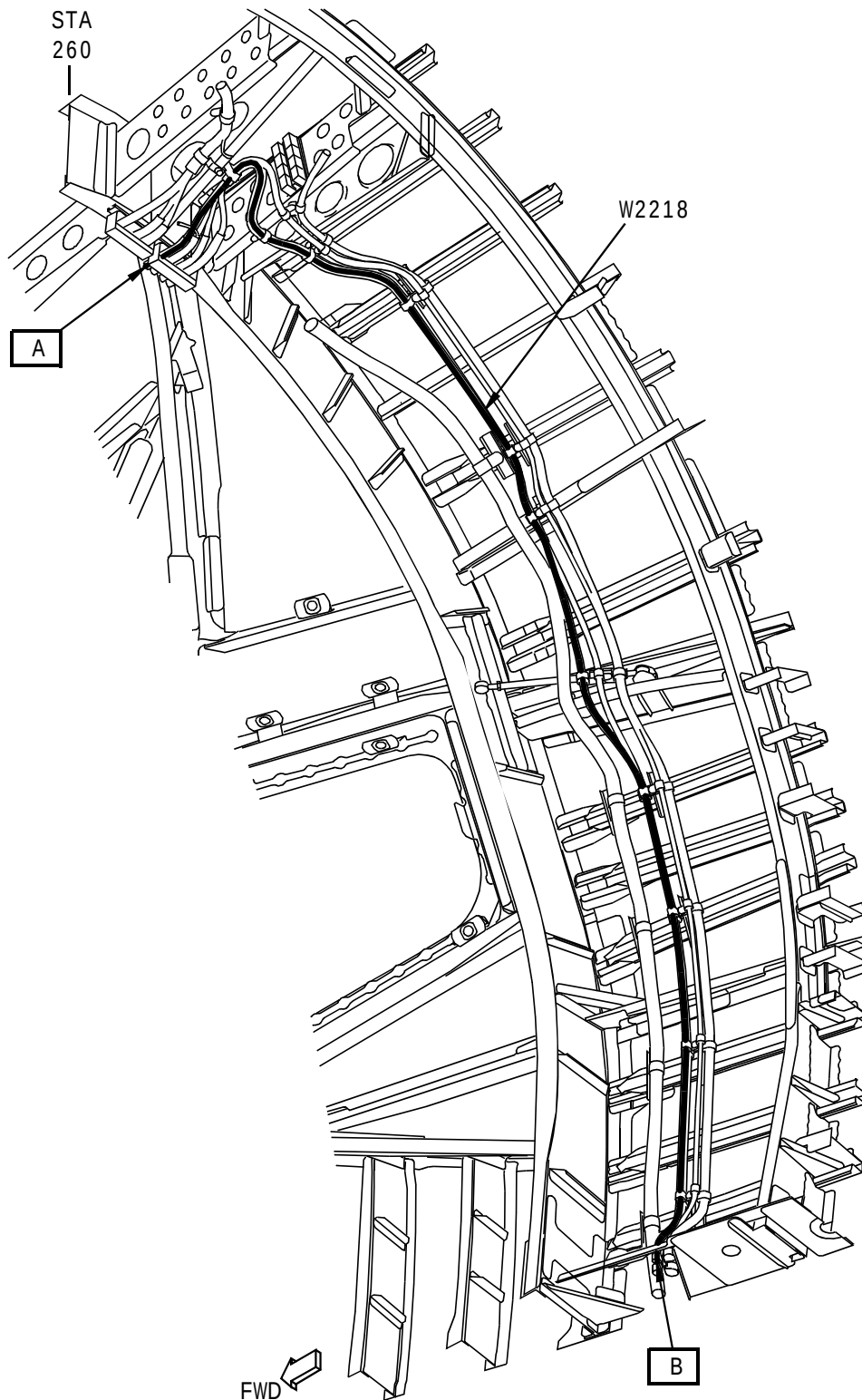


FIGURE 44: W2218 WIRE BUNDLE ROUTING
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428624

FIGURE 44: W2218 WIRE BUNDLE ROUTING
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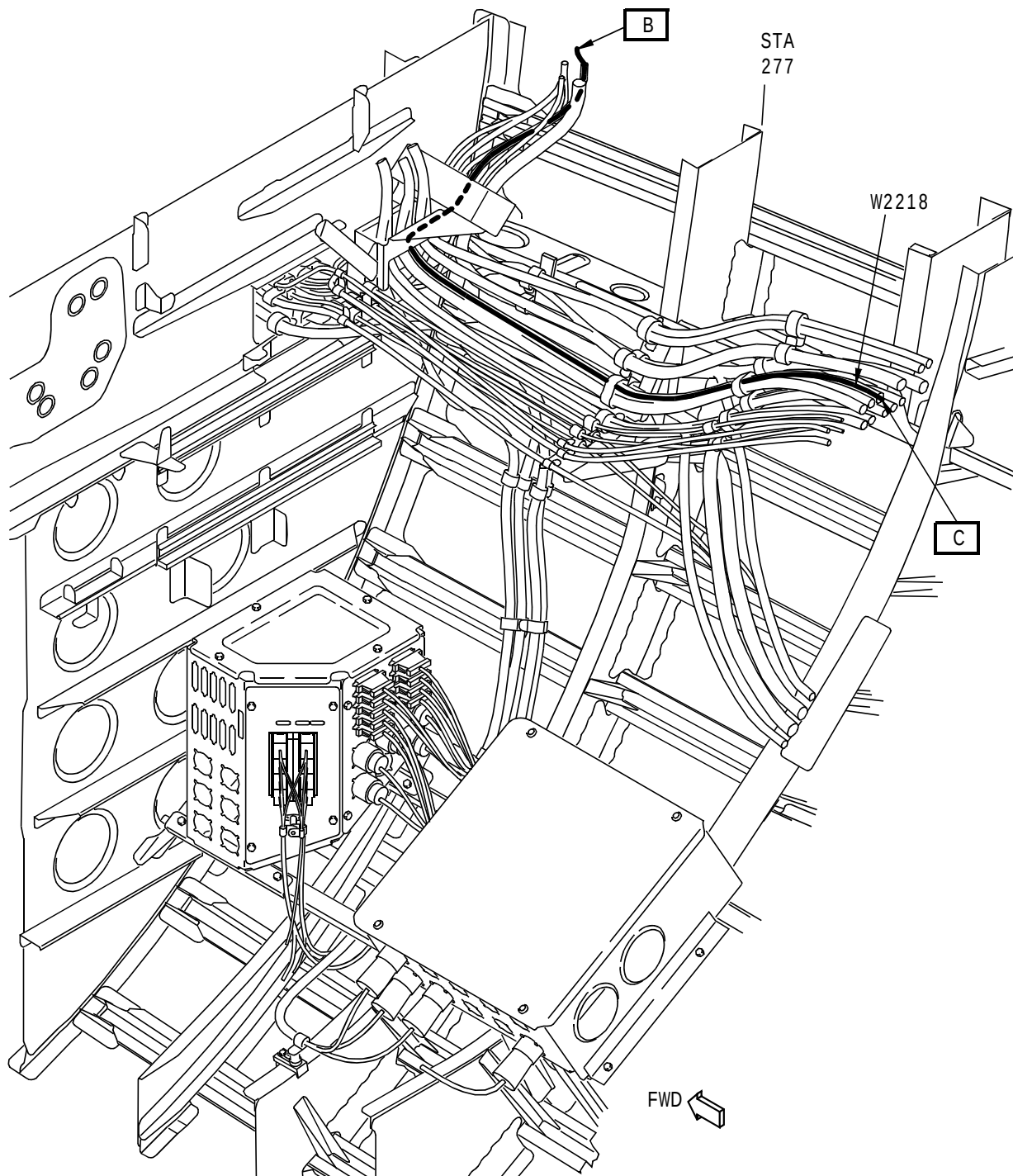
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FIGURE 44: W2218 WIRE BUNDLE ROUTING
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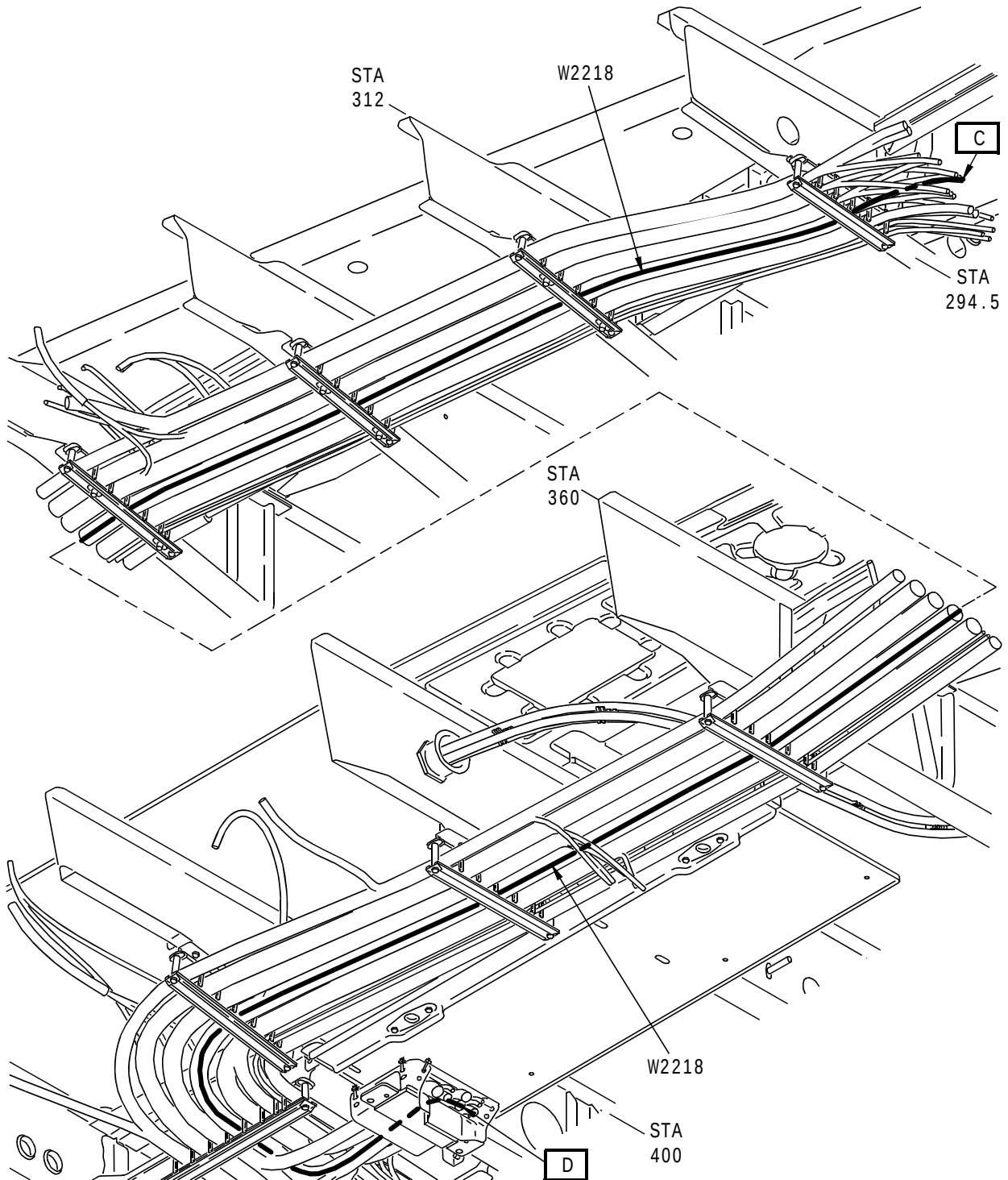
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FIGURE 44: W2218 WIRE BUNDLE ROUTING
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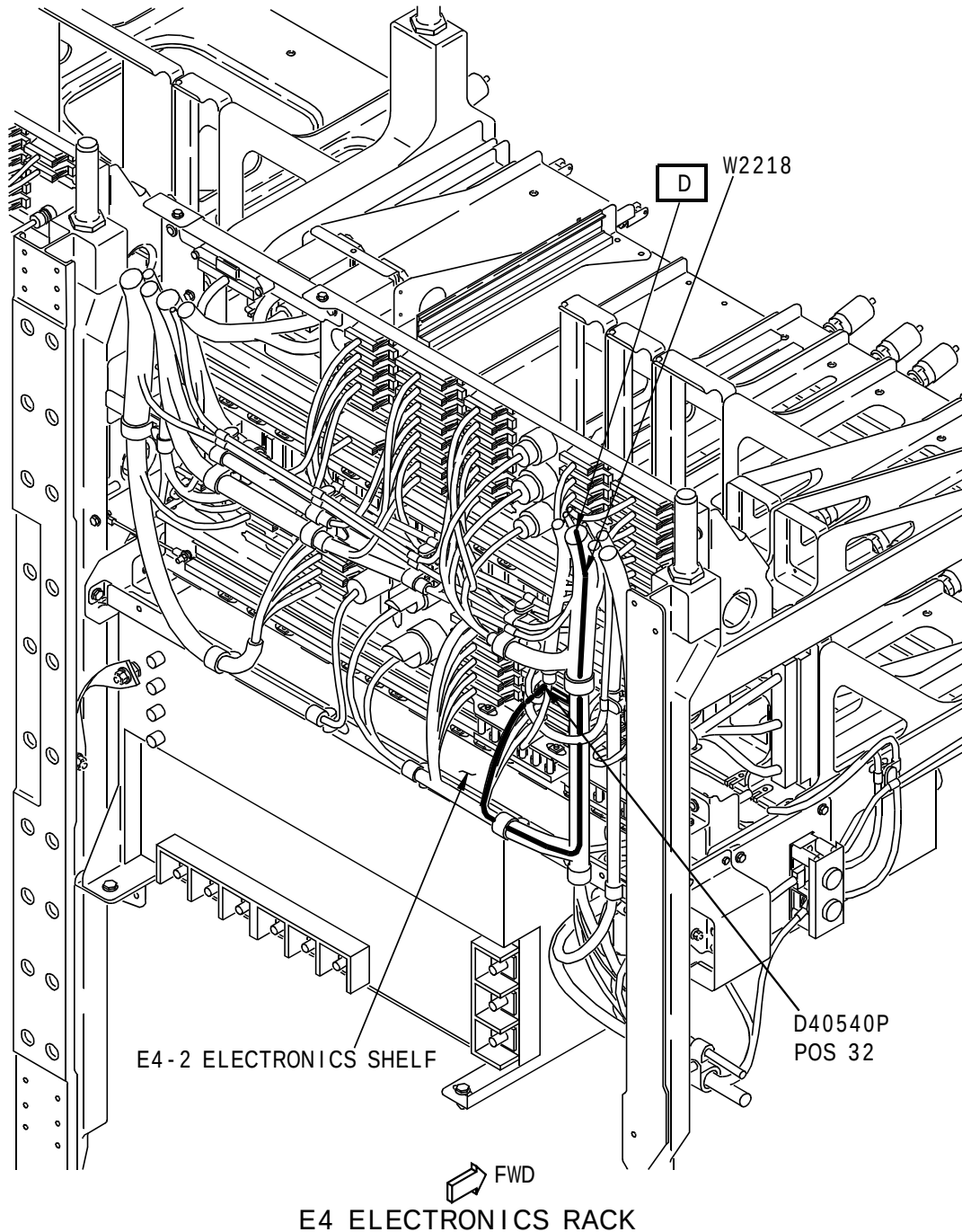
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 44: W2218 WIRE BUNDLE ROUTING
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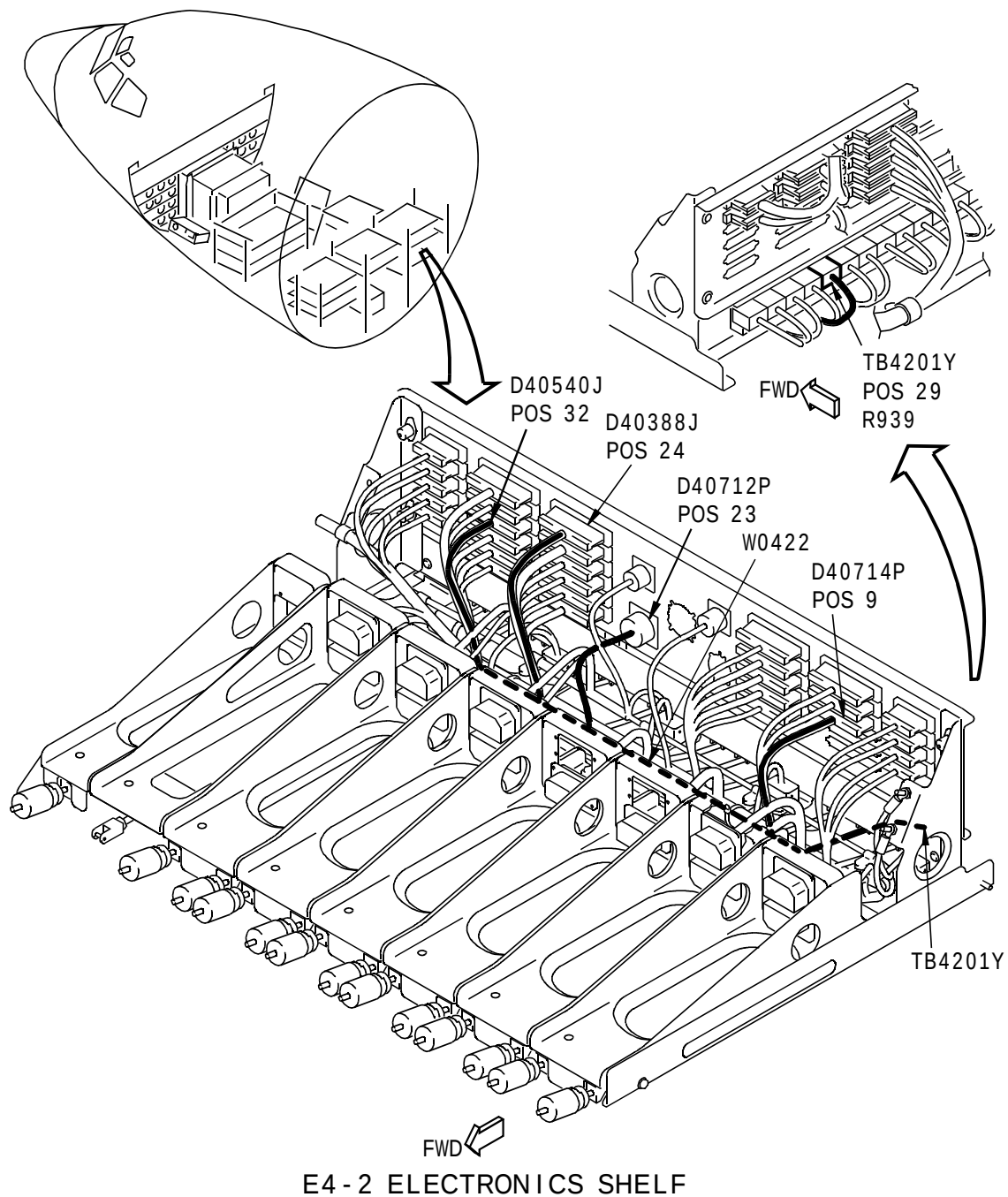
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FIGURE 45: W0422 WIRE BUNDLE ROUTING



428714

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 45: W0422 WIRE BUNDLE ROUTING
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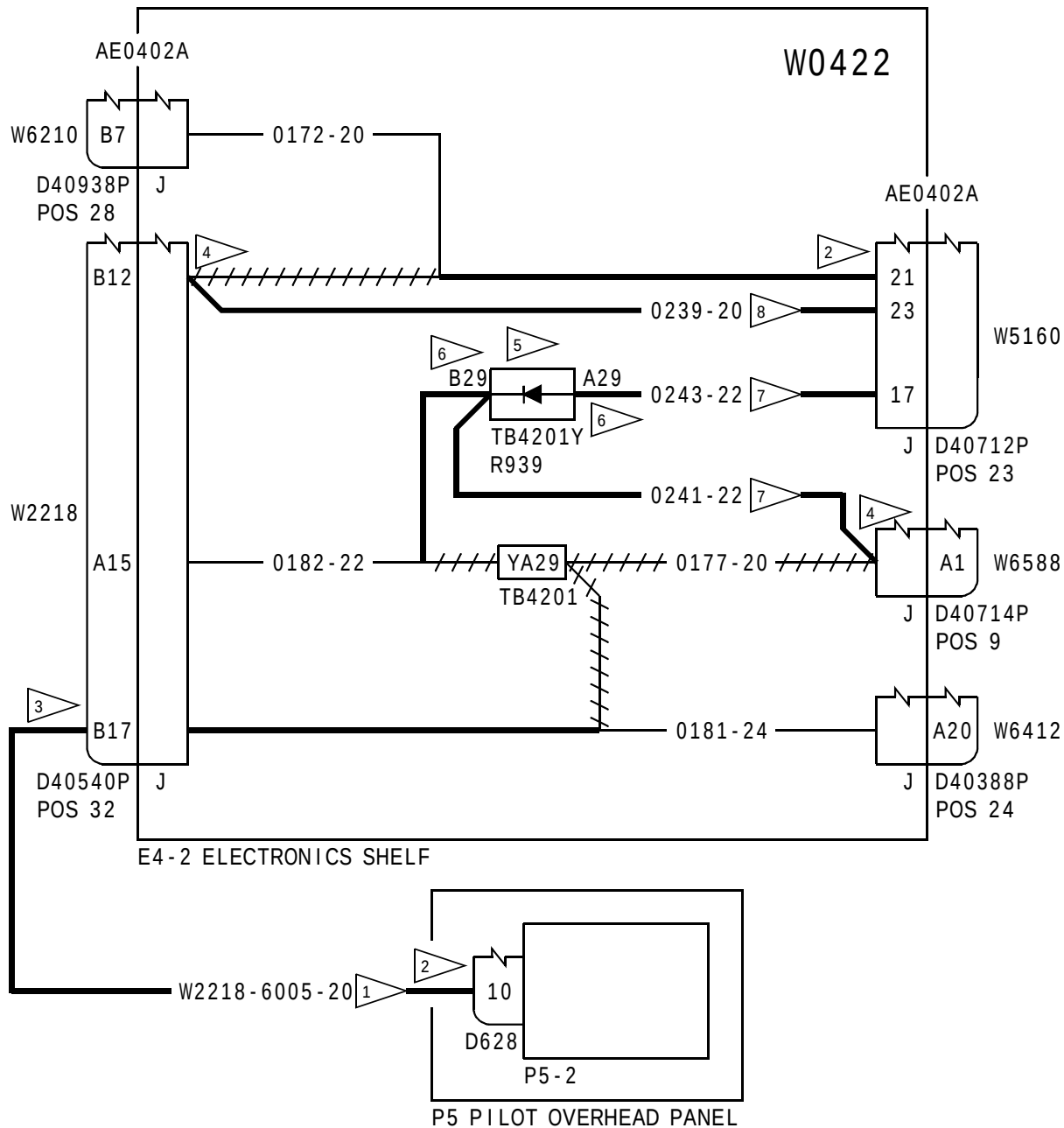
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FIGURE 46: WIRE BUNDLE W0422 AND W2218 WIRING CHANGE



REFERENCE: WIRING DIAGRAMS
28-23-11, 28-43-11, 31-62-24

— ADDED WIRE OR NEW ROUTING
//// DELETED WIRE OR FORMER ROUTING
— EXISTING WIRE

428417

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4,

FIGURE 46: WIRE BUNDLE W0422 AND W2218 WIRING CHANGE

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The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 20	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Socket Contact	BACC47CP1S	4	Refer to SWPM 20-61-11., as an accepted procedure.
3	Socket Contact	CTA-0165	1	Refer to SWPM 20-74-11., as an accepted procedure.
4	Pin Contact	CTA-0166	3	Refer to SWPM 20-74-11., as an accepted procedure.
5	Terminal Module	S280W555-753	1	Refer to SWPM 20-90-15., as an accepted procedure.
6	Terminal Pin Contact	S280W555-920	3	Refer to SWPM 20-90-15., as an accepted procedure.
7	Wire	BMS13-58, Type 1, Class 1, AWG 22	2	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
8	Wire	BMS13-60, Type 1, Class 1, AWG 20	1	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.

FIGURE 46: WIRE BUNDLE W0422 AND W2218 WIRING CHANGE

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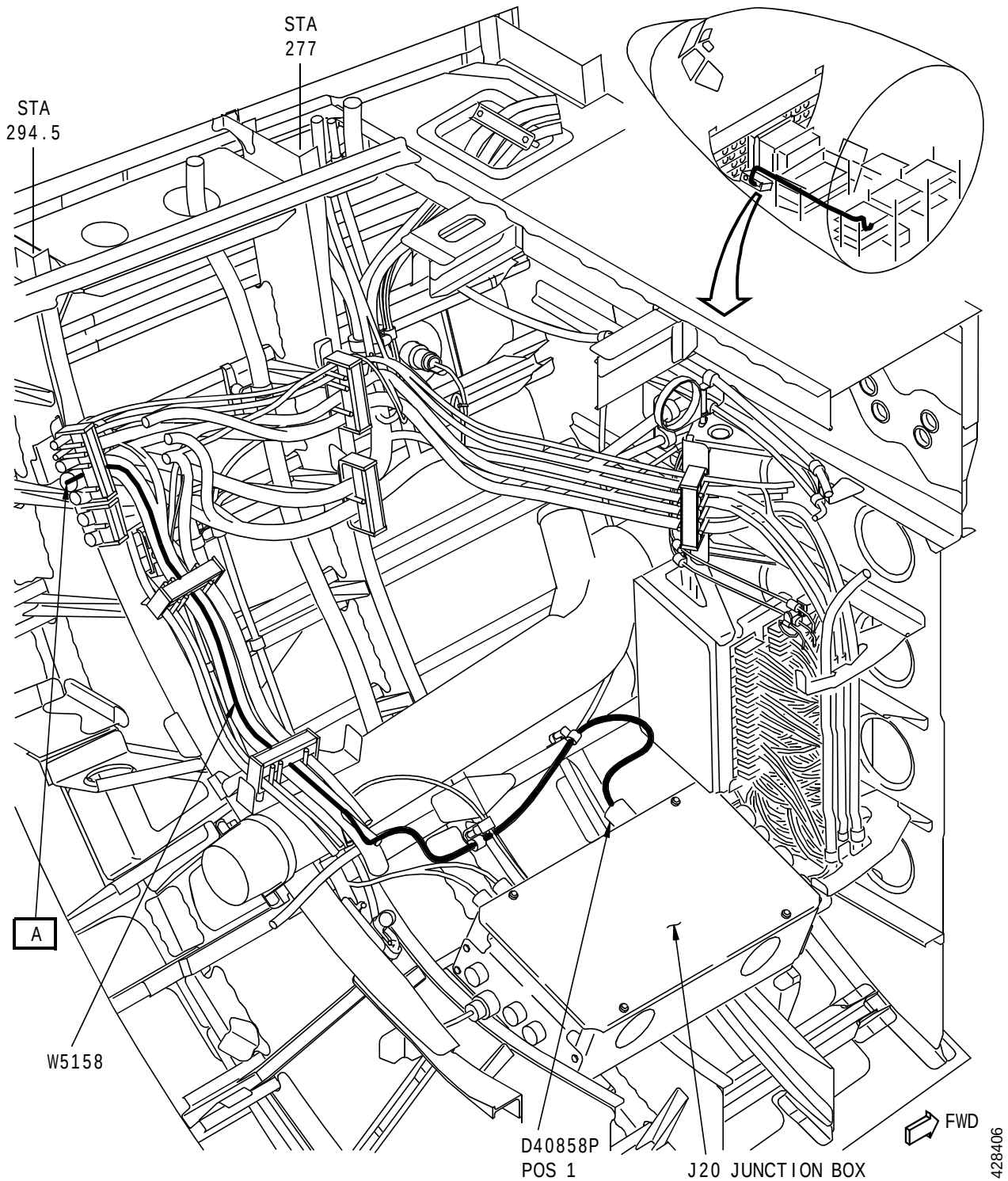
ALERT**ALERT****FIGURE 47: W5158 WIRE BUNDLE ROUTING**

FIGURE 47: W5158 WIRE BUNDLE ROUTING
(SHEET 1 OF 3)

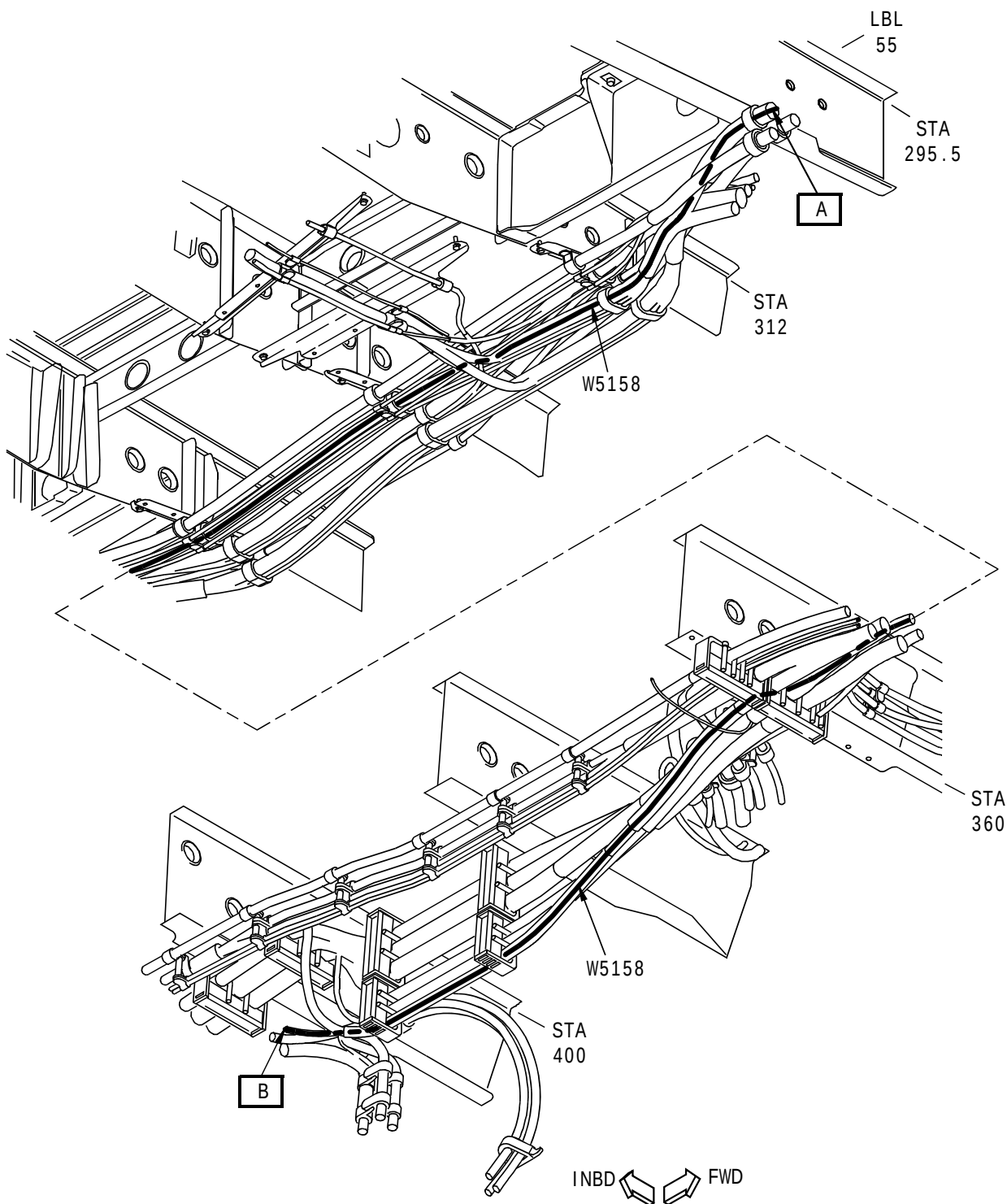
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FIGURE 47: W5158 WIRE BUNDLE ROUTING
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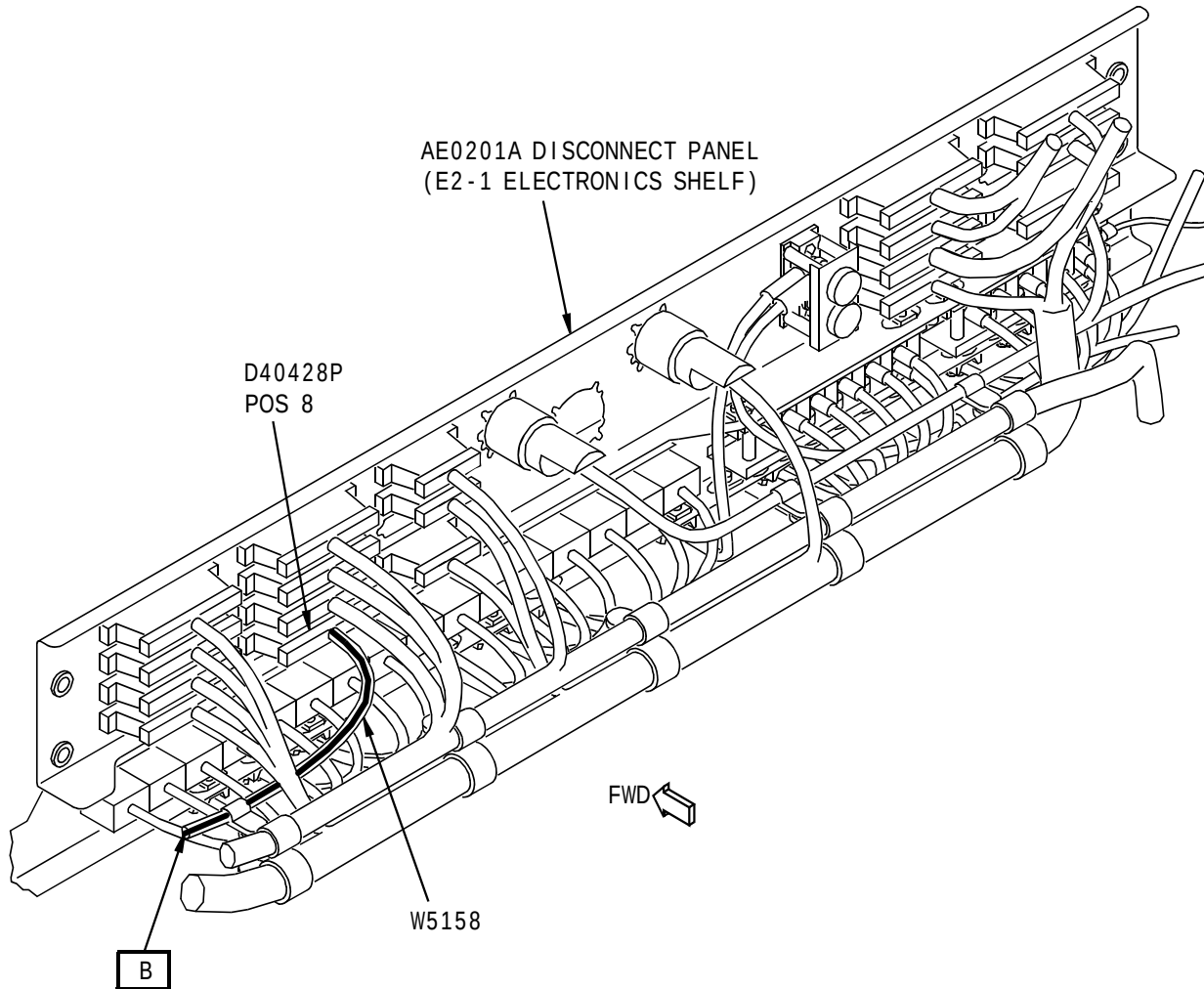
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 47: W5158 WIRE BUNDLE ROUTING
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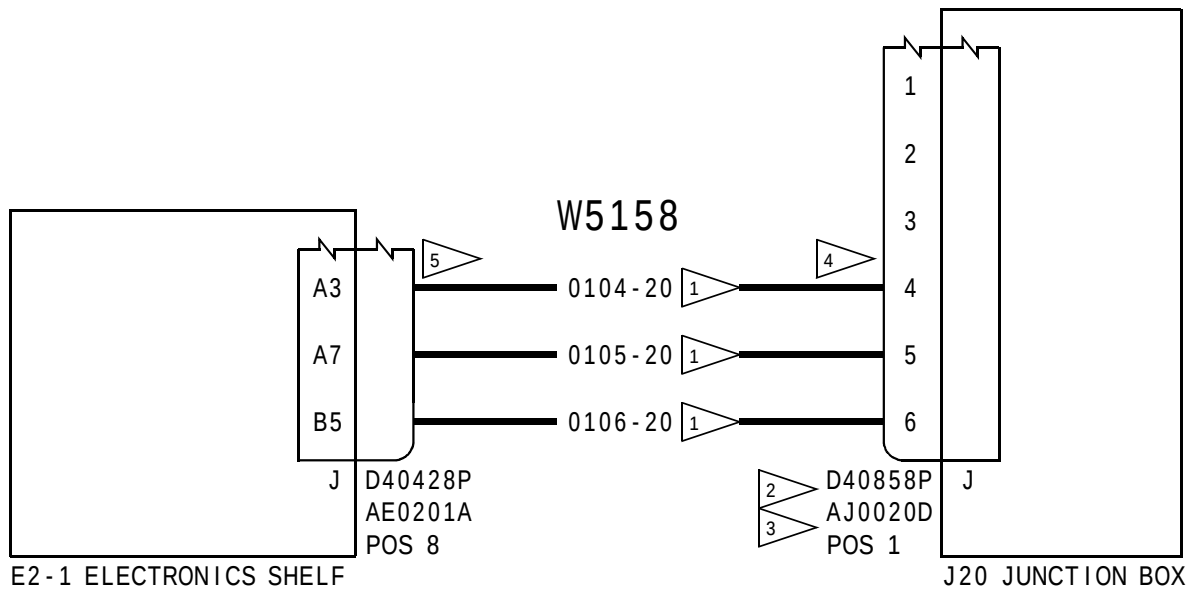
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FIGURE 48: WIRE BUNDLE W5158 WIRING CHANGE



428421

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1; Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Connector	BACC45FT18-31S	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Backshell Clamp	BACC10GH18	1	Refer to SWPM 20-60-09., as an accepted procedure.
	Filler Rods	280A3113-10802	-	Insert filler rods into empty cavities.

FIGURE 48: WIRE BUNDLE W5158 WIRING CHANGE

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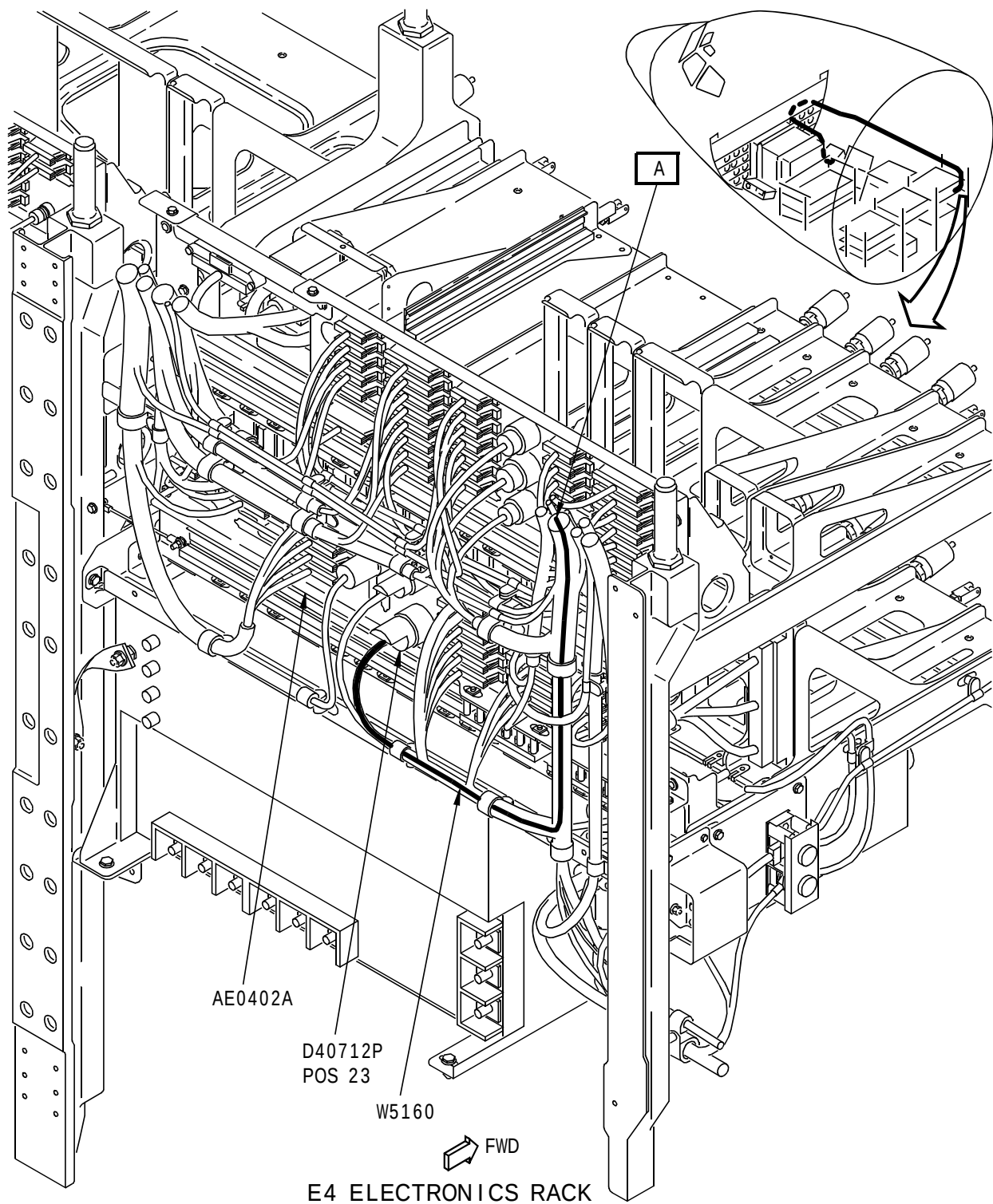
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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
3	I.D. Tape, Connector	280A3113-10801	1	Imprinted "D40858P M/W AJ0020D POS 01". Install ID tape within 6 inches of connector.
4	Socket Contact	BACC47CP1S	3	Refer to SWPM 20-61-11., as an accepted procedure.
5	Pin Contact	CTA-0166	3	Refer to SWPM 20-74-11., as an accepted procedure.

FIGURE 48: WIRE BUNDLE W5158 WIRING CHANGE
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ALERT**ALERT****FIGURE 49: W5160 WIRE BUNDLE ROUTING**

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**FIGURE 49: W5160 WIRE BUNDLE ROUTING
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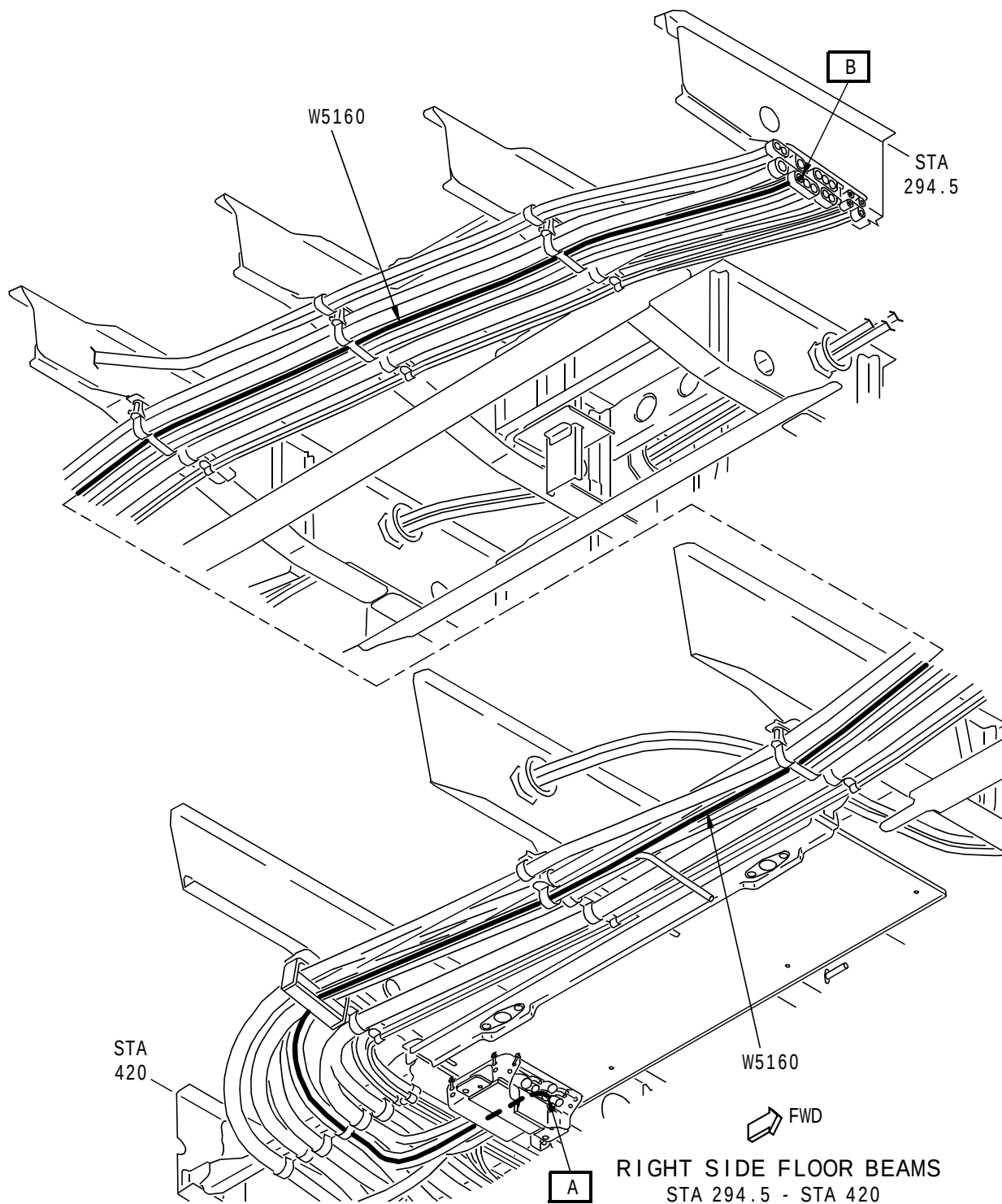


FIGURE 49: W5160 WIRE BUNDLE ROUTING
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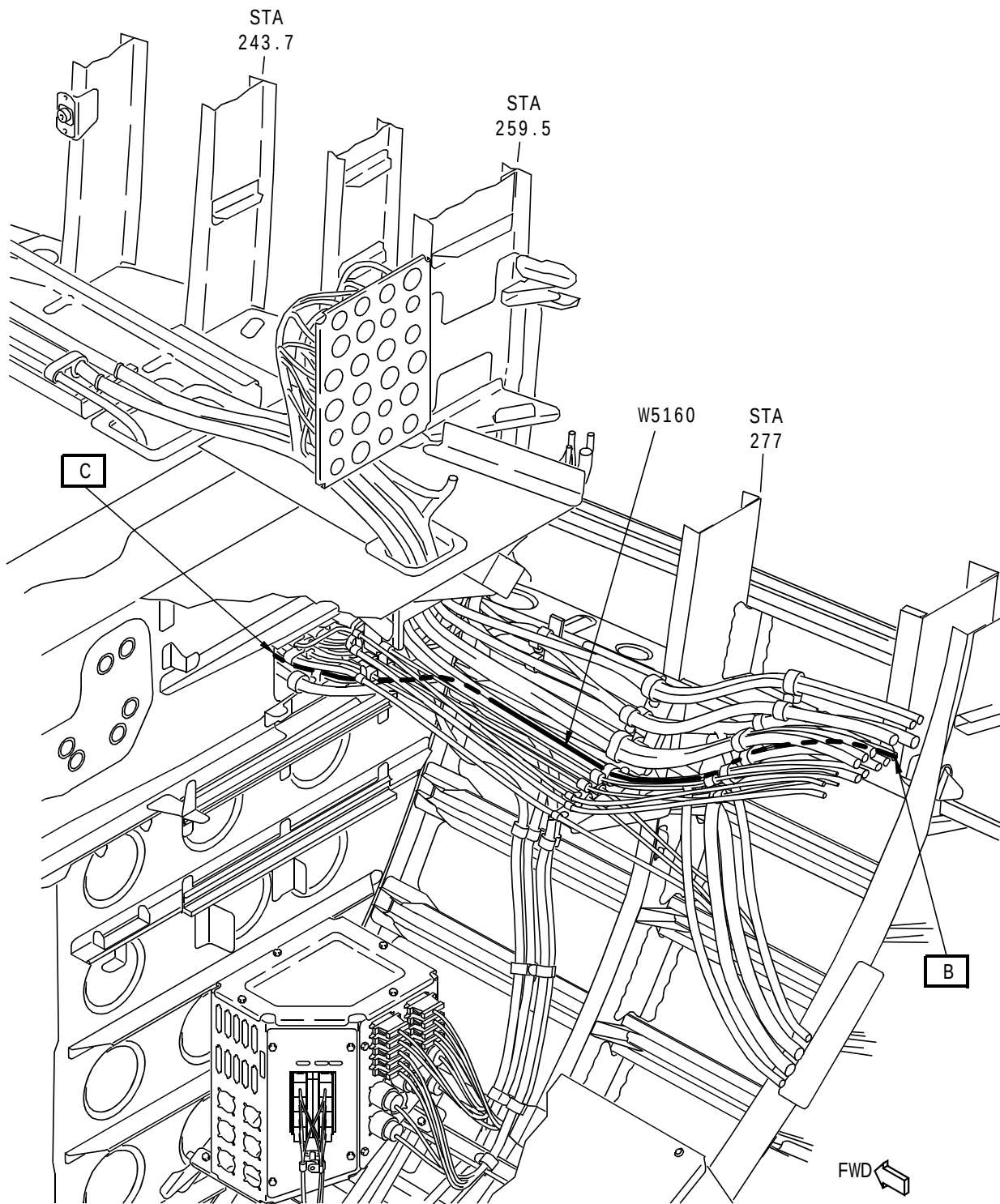


FIGURE 49: W5160 WIRE BUNDLE ROUTING
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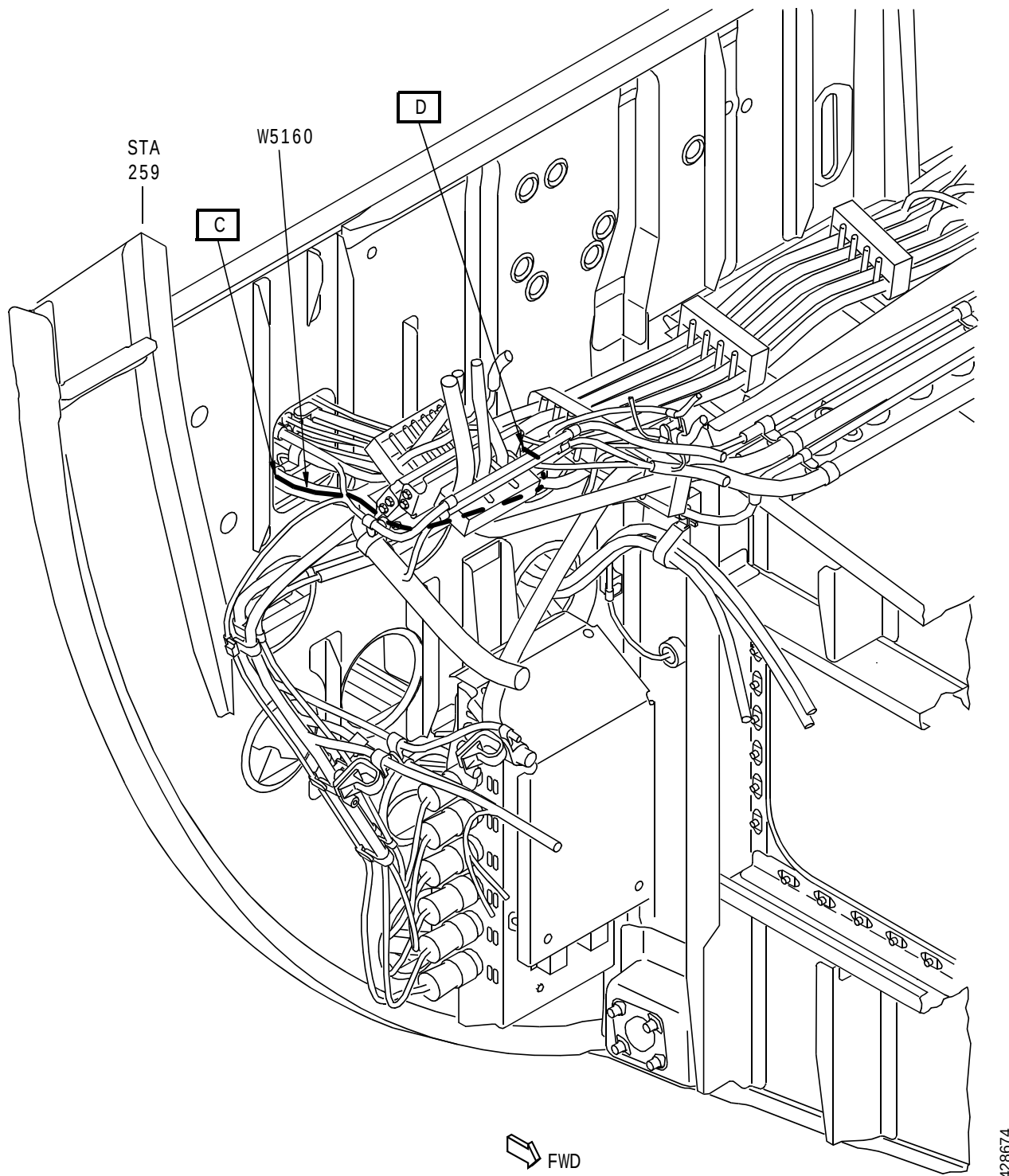


FIGURE 49: W5160 WIRE BUNDLE ROUTING
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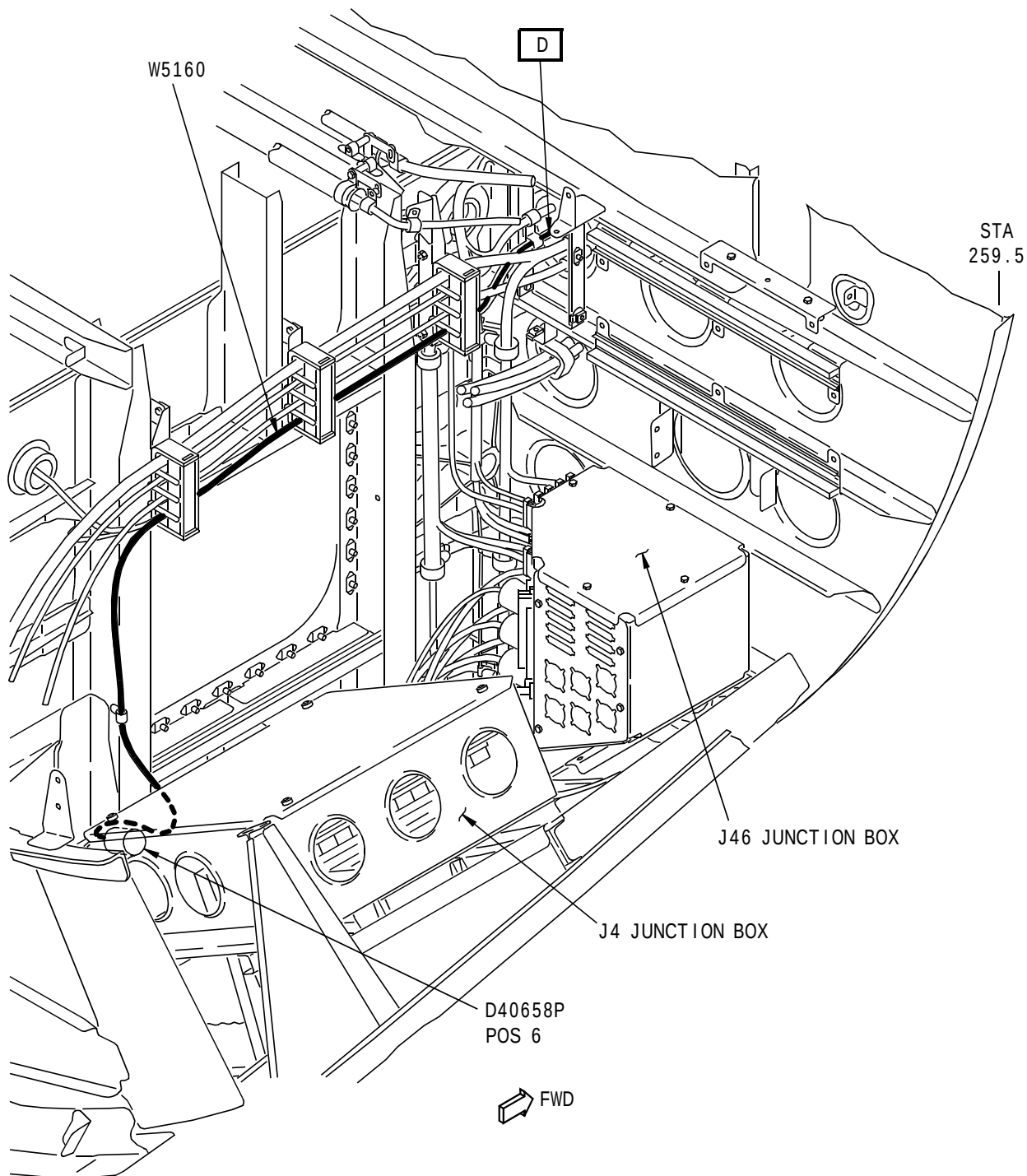
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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1:

FIGURE 49: W5160 WIRE BUNDLE ROUTING
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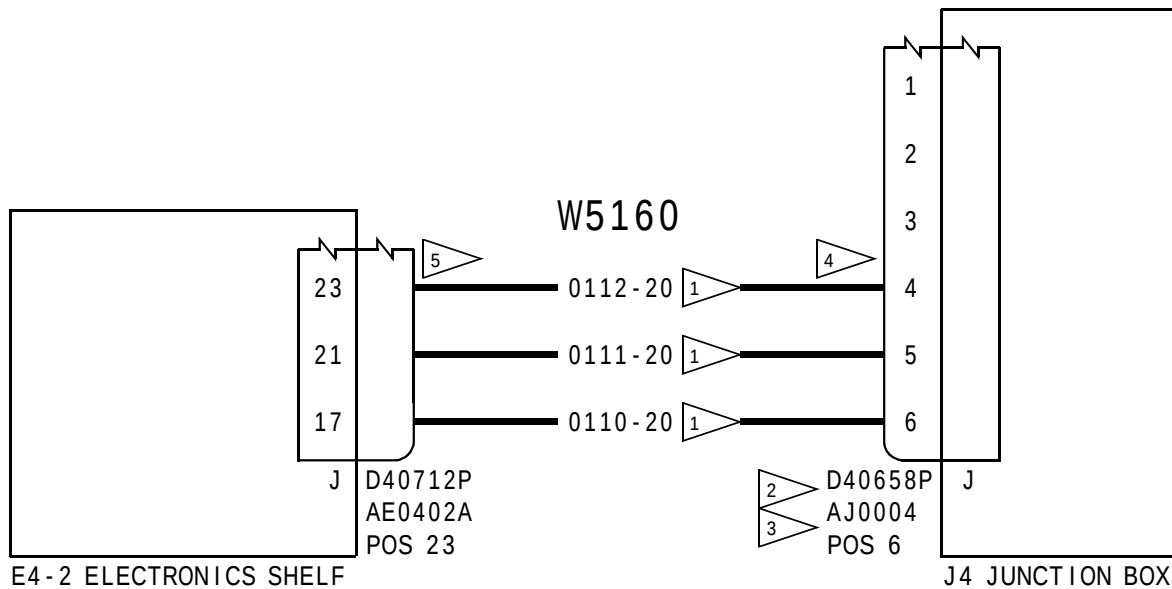
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ALERT**ALERT****FIGURE 50: WIRE BUNDLE W5160 WIRING CHANGE**

REFERENCE: WIRING DIAGRAM 28-23-11

— ADDED WIRE OR NEW ROUTING

428424

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1; Group 4, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

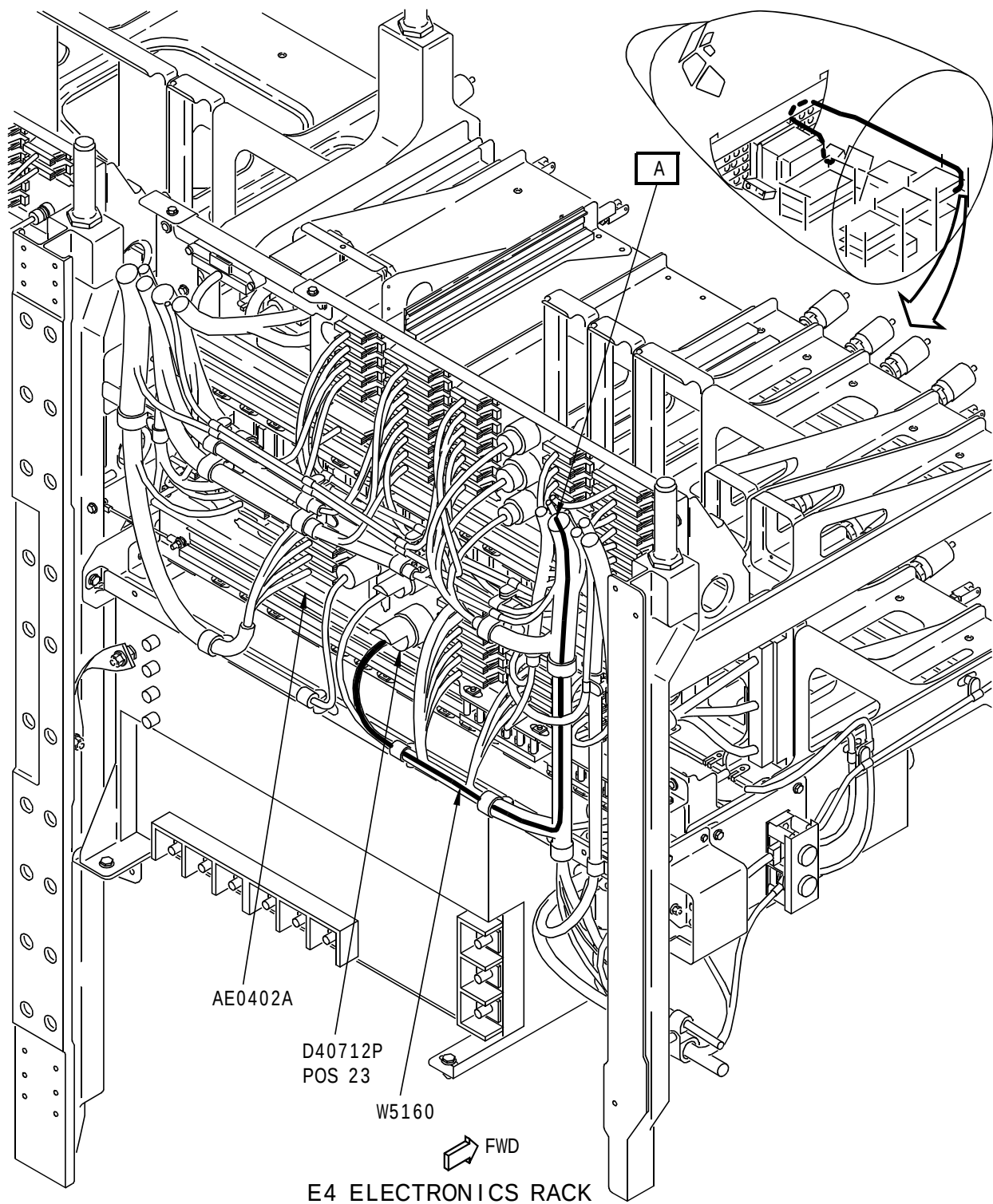
FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Connector	BACC45FT18-31S	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Backshell Clamp	BACC10GH18	1	Refer to SWPM 20-60-09., as an accepted procedure.
	Filler Rods	280A3113-11003	-	Insert filler rods into empty cavities.
3	I.D. Tape, Connector	280A3113-11001	1	Imprinted "D40658P M/W AJ0004 POS 06". Install ID tape within 6 inches of connector.
4	Socket Contact	BACC47CP1S	3	Refer to SWPM 20-61-11., as an accepted procedure.
5	Pin Contact	BACC47CN1SB	3	Refer to SWPM 20-61-11., as an accepted procedure.

FIGURE 50: WIRE BUNDLE W5160 WIRING CHANGE

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ALERT**ALERT****FIGURE 51: W5160 WIRE BUNDLE ROUTING****FIGURE 51: W5160 WIRE BUNDLE ROUTING
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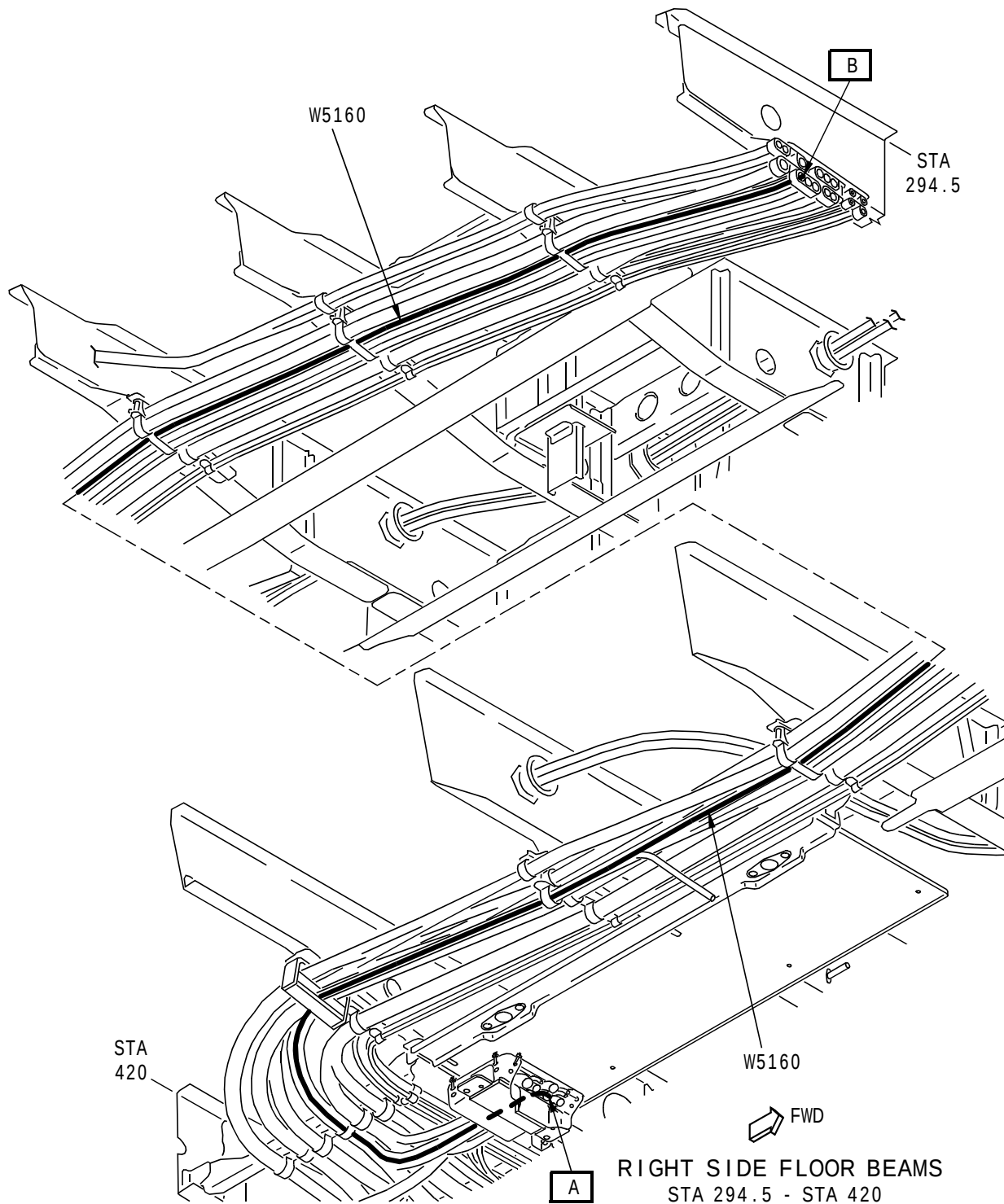


FIGURE 51: W5160 WIRE BUNDLE ROUTING
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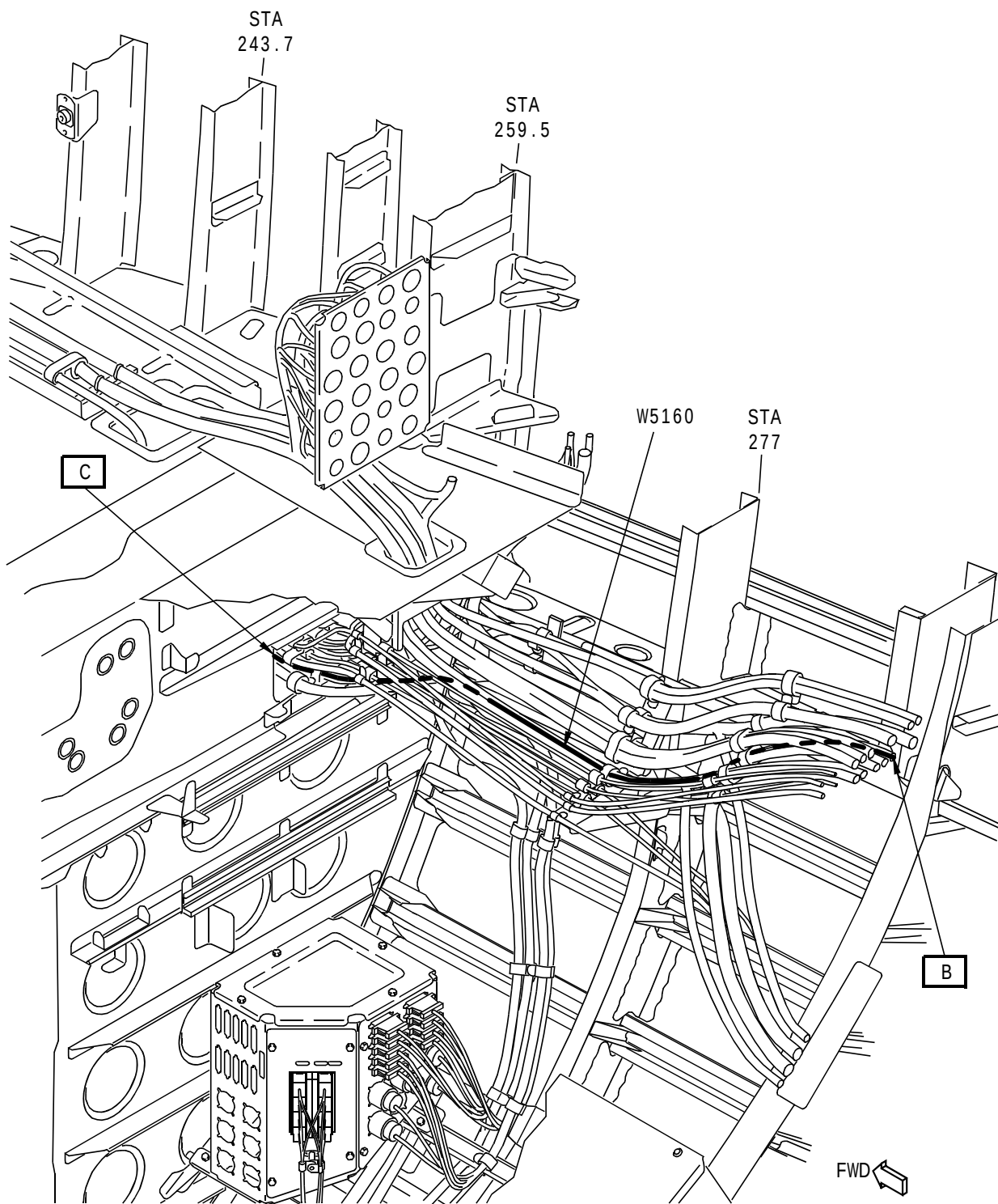


FIGURE 51: W5160 WIRE BUNDLE ROUTING
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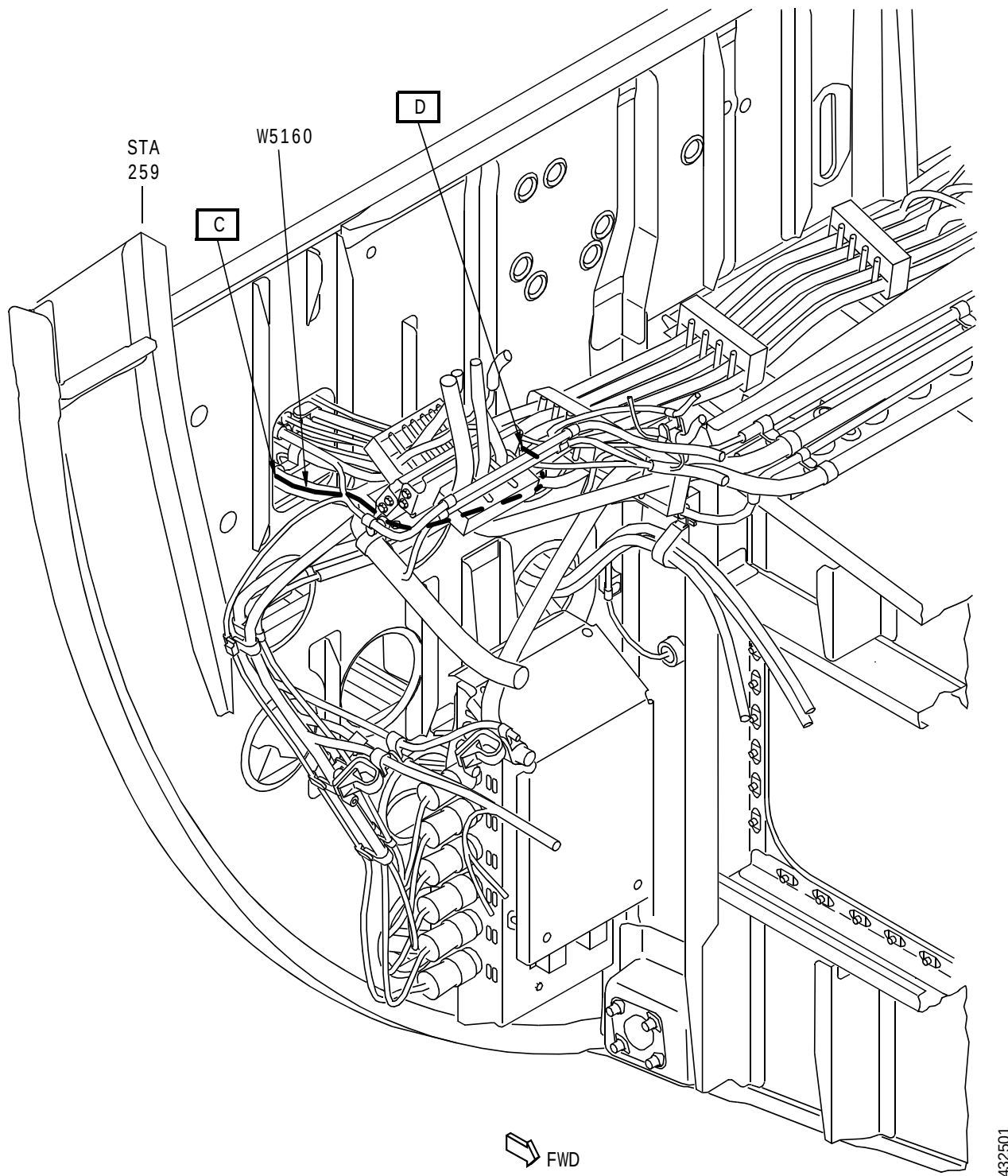


FIGURE 51: W5160 WIRE BUNDLE ROUTING
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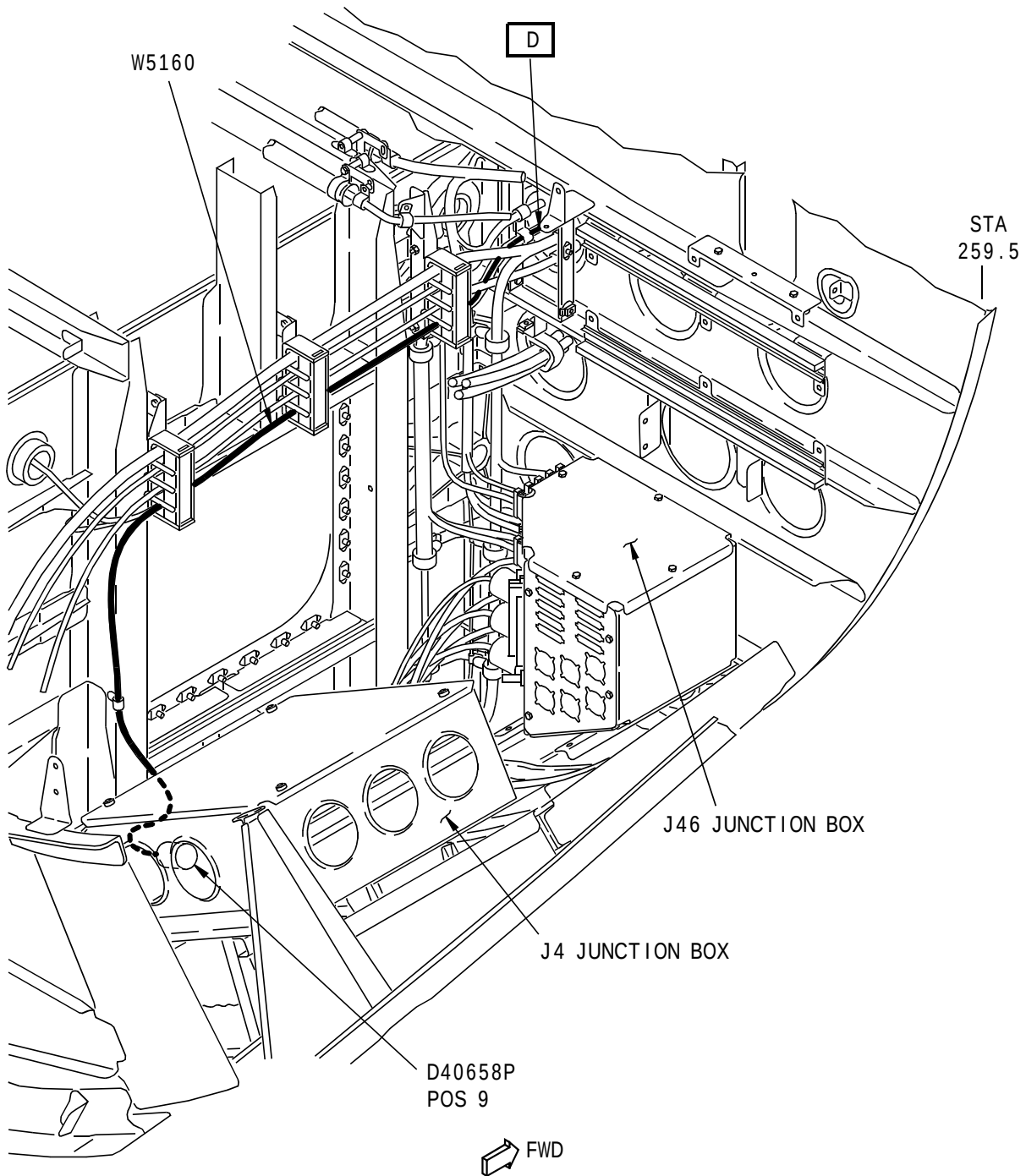
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This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

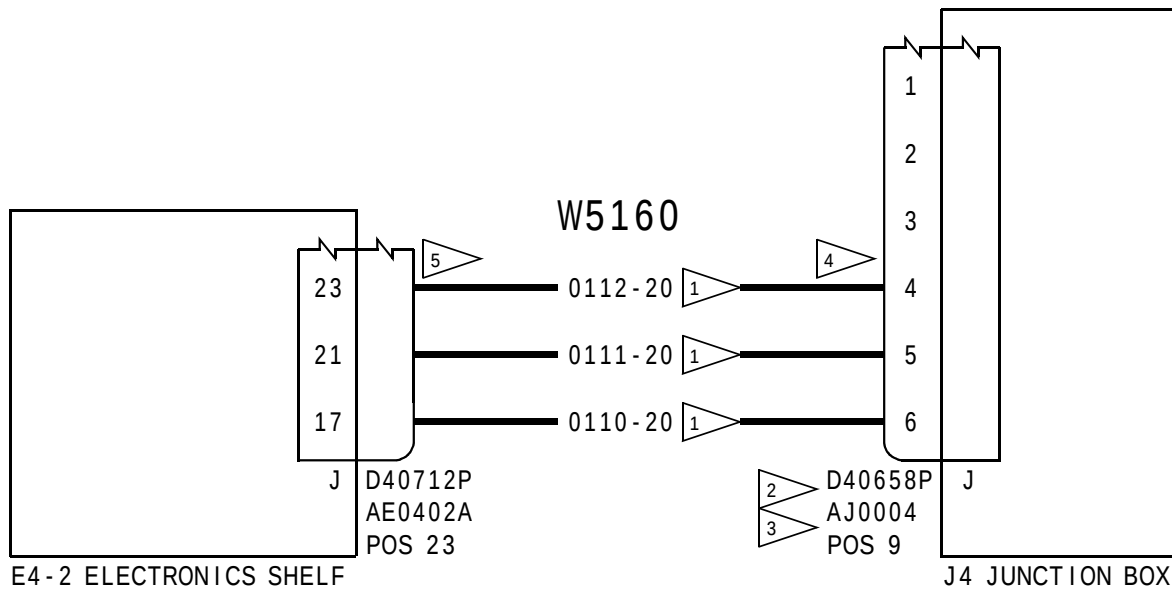
FIGURE 51: W5160 WIRE BUNDLE ROUTING
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ALERT**ALERT****FIGURE 52: WIRE BUNDLE W5160 WIRING CHANGE**

REFERENCE: WIRING DIAGRAM 28-23-11

— ADDED WIRE OR NEW ROUTING

428425

This Figure applies to Group 5, Configuration 1; Group 6, Configuration 1; Group 7, Configuration 1; Group 8, Configuration 1; Group 9, Configuration 1; Group 10, Configuration 1; Group 11, Configuration 1; Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	3	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Connector	BACC45FT18-31S6	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Backshell Clamp	BACC10GH18	1	Refer to SWPM 20-60-09., as an accepted procedure.
	Filler Rods	280A3113-10903	-	Insert filler rods into empty cavities.

FIGURE 52: WIRE BUNDLE W5160 WIRING CHANGE

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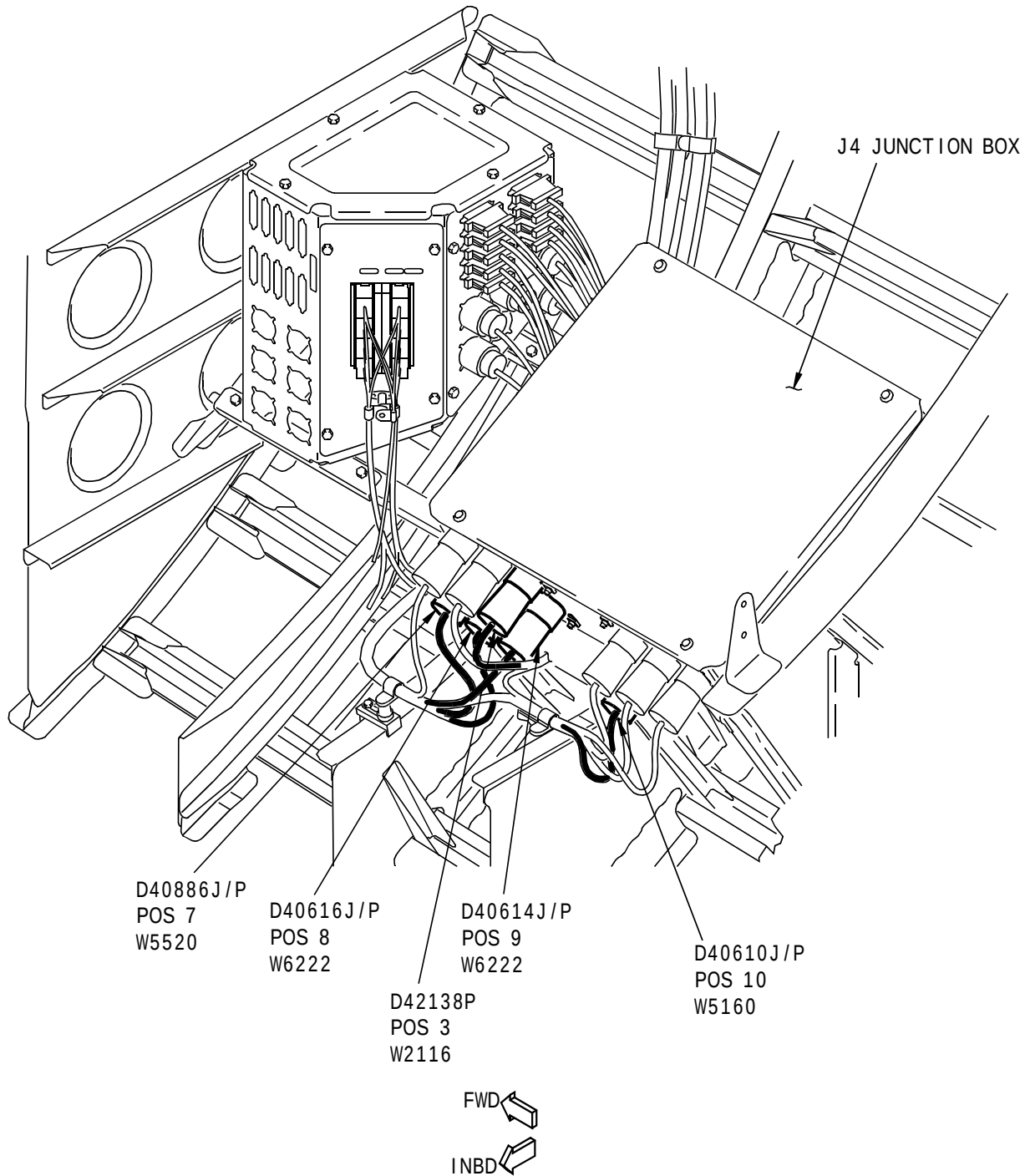
FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
3	I.D. Tape, Connector	280A3113-10901	1	Imprinted "D40658P M/W AJ0004 POS 09". Install ID tape within 6 inches of connector.
4	Socket Contact	BACC47CP1S	3	Refer to SWPM 20-61-11., as an accepted procedure.
5	Pin Contact	BACC47CN1SB	3	Refer to SWPM 20-61-11., as an accepted procedure.

FIGURE 52: WIRE BUNDLE W5160 WIRING CHANGE
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FIGURE 53: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 ROUTING



433589

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

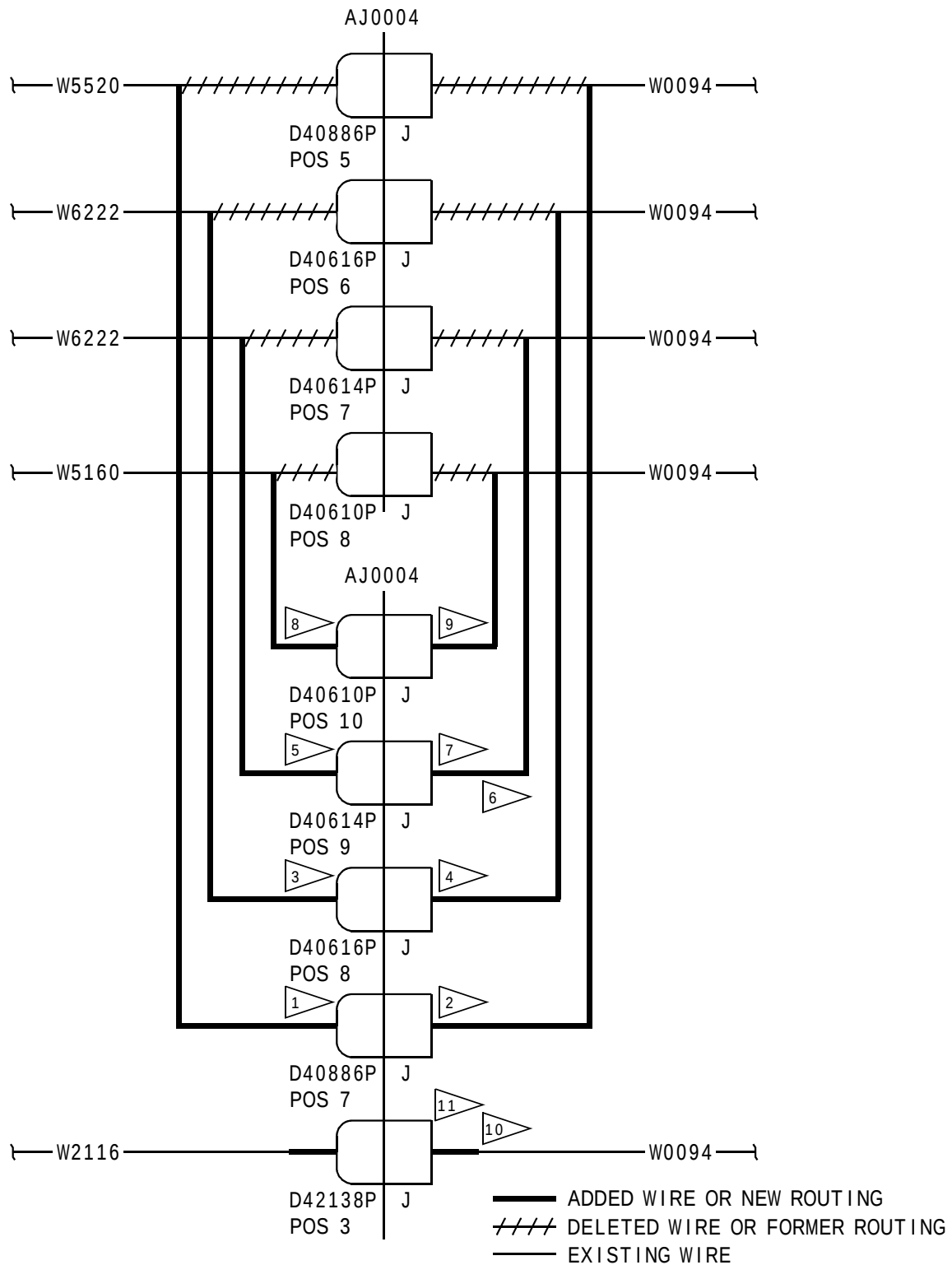
FIGURE 53: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 ROUTING
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FIGURE 54: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 WIRING CHANGES



427621

FIGURE 54: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 WIRING CHANGES

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This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	I.D. Tape, Connector	280A3113-11101	1	Imprinted "D40886P M/W AJ0004 POS 7". Install ID tape within 6 inches of connector.
2	I.D. Tape, Connector	280A3113-11102	1	Imprinted "D40886J M/W AJ0004 POS 7". Install ID tape within 6 inches of connector.
3	I.D. Tape, Connector	280A3113-11103	1	Imprinted "D40616P M/W AJ0004 POS 08". Install ID tape within 6 inches of connector.
4	I.D. Tape, Connector	280A3113-11104	1	Imprinted "D40616J M/W AJ0004 POS 08". Install ID tape within 6 inches of connector.
5	I.D. Tape, Connector	280A3113-11105	1	Imprinted "D40614P M/W AJ0004 POS 09". Install ID tape within 6 inches of connector.
6	Wire	280A3113-11109 (BMS13-60 Type 1, Class 1, AWG 16)	-	Extend wiring as required to relocate connector D40614J to position 9 with uncoded wire, splices and contacts.
	Wire	280A3113-11110 (BMS13-58 Type 1, Class 1, AWG 16)	-	
	Wire	280A3113-11111 (BMS13-58 Type 1, Class 1, AWG 20)	-	
	Wire	280A3113-11112 (BMS13-60 Type 1, Class 1, AWG 22)	-	
	Wire	280A3113-11113 (BMS13-58 Type 1, Class 1, AWG 22)	-	
	Wire	280A3113-11114 (BMS13-60 Type 44, Class 1, AWG 22)	-	
	Lacing Tape	280A3113-2001	-	
	Pin Contact	BACC47CN2A	-	
	Splice	D436-37	-	
	Splice	D436-36	-	Refer to SWPM 20-30-12., as an accepted procedure.
7	I.D. Tape, Connector	280A3113-11106	1	Imprinted "D40614J M/W AJ0004 POS 09". Install ID tape within 6 inches of connector.
8	I.D. Tape, Connector	280A3113-11107	1	Imprinted "D40610P M/W AJ0004 POS 10". Install ID tape within 6 inches of connector.

FIGURE 54: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 WIRING CHANGES

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
9	I.D. Tape, Connector	280A3113-11108	1	Imprinted "D40610J M/W AJ0004 POS 10". Install ID tape within 6 inches of connector.
10	Wire	280A3113-11109 (BMS13-60, Type 1, Class 1, AWG 16)	-	Extend wiring as required to relocate connector D42138J to position 3 with uncoded wire, splices and contacts.
	Wire	280A3113-11110 (BMS13-58, Type 1, Class 1, AWG 16)	-	
	Wire	280A3113-11111 (BMS13-58, Type 1, Class 1, AWG 20)	-	
	Wire	280A3113-11112 (BMS13-60, Type 1, Class 1, AWG 22)	-	
	Wire	280A3113-11113 (BMS13-58, Type 1, Class 1, AWG 22)	-	
	Wire	280A3113-11114 (BMS13-60, Type 44, Class 1, AWG 22)	-	
	Pin Contact	BACC47CN2A	-	Refer to SWPM 20-61-11., as an accepted procedure.
	Splice	D436-37	-	Refer to SWPM 20-30-12., as an accepted procedure.
	Splice	D436-36	-	SWPM 20-30-12., as an accepted procedure.
11	I.D. Tape, Connector	280A3113-11115	1	Imprinted "D42138J M/W AJ0004 POS 03". Install ID tape within 6 inches of connector.

FIGURE 54: CONNECTOR RELOCATION ON J4 JUNCTION BOX - WIRE BUNDLES W0094, W5160, W5520, AND W6222 WIRING CHANGES

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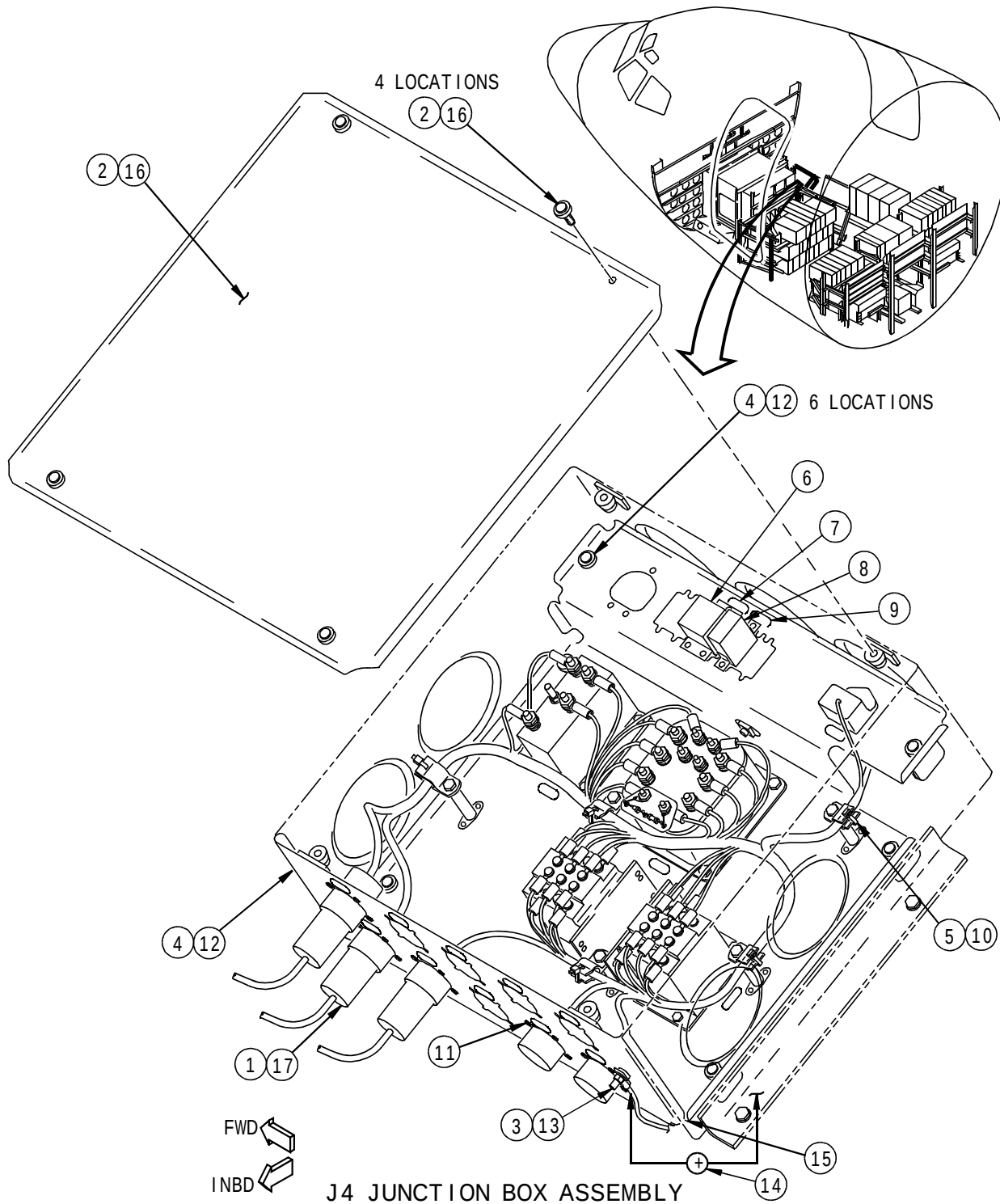
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FIGURE 55: J4 JUNCTION BOX RELAY INSTALLATION



1360867

This Figure applies to Group 18, Configuration 1:

FIGURE 55: J4 JUNCTION BOX RELAY INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Disconnect	Connector	-	5	from the J4 Junction Box.
2	Remove / Keep	Cover Plate	284A3204-()	1	Rotate the 4 x 1/4 turn fasteners to remove the J4 Junction Box cover plate.
3	Remove / Keep	Jumper Washer Nut	BACJ40A20-6 NAS1149D0316H BACN10YR3CD	1 1 1	from J4 Junction Box.
4	Remove / Keep	J4 Junction Box Bottom Assembly	284A3204-()	1	Rotate the 6 x 1/4 turn fasteners to remove the J4 Junction Box Bottom Assembly from the J4 Junction Box to install the relay sockets and do the wiring changes.
5	Remove	Strap	BACS38K5	1	Discard this item.
6	Install (New)	Relay	TDH-8116-1502	1	R935. Refer to SWPM 20-81-22.
7	Install (New)	Marker	BAC27DEX7088	1	Refer to SOPM 20-50-05, as an accepted procedure.
8	Install (New)	Relay	BACR13CJ2	1	R937. Refer to SWPM 20-81-22., as an accepted procedure.
9	Install (New)	Marker	BAC27DEX7090	1	Refer to SOPM 20-50-05, as an accepted procedure.
10	Install (New)	Strap	BACS38K5	1	Refer to SWPM 20-10-11., as an accepted procedure.
11	Install (New)	Screw (Near side) Washer (Near side) Nut (Far side)	BACS12HN04-5 NAS1149DN332J BACN10YR04CD	4 4 4	Install the connector after the wiring changes are done.
12	Install (Kept)	J4 Junction Box Bottom Assembly	284A3204-()	1	Rotate the 6 x 1/4 turn fasteners to install the J4 Junction Box Bottom Assembly to the J4 Junction Box after the wiring changes are done.
13	Install (Kept)	Jumper Washer Nut	BACJ40A20-6 NAS1149D0316H BACN10YR3CD	1 1 1	
14	Measure	Resistance	-	1	between J4 Junction Box and structure. Refer to SWPM 20-20-00., as an accepted procedure. Make sure the resistance is not more than 0.001 ohm.
15	Identify	J4 Junction Box	284A1204-()	1	(a)

FIGURE 55: J4 JUNCTION BOX RELAY INSTALLATION

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
16	Install (Kept)	Cover Plate	284A3204-()	1	Rotate the 4 x 1/4 turn fasteners to install the J4 Junction Box cover plate.
17	Connect	Connector	-	5	to the J4 Junction Box.
(a)	After the J4 Junction Box is reworked, part-mark it as shown below: 284A1204-1 as 284A9200-56, 284A1204-2 as 284A9200-57, 284A1204-4 as 284A9200-58, 284A1204-104 as 284A9200-58, 284A1204-5 as 284A9200-59, 284A1204-105 as 284A9200-59, 284A1204-6 as 284A9200-60, 284A1204-106 as 284A9200-60, 284A1204-7 as 284A9200-61, 284A1204-107 as 284A9200-61, 284A1204-110 as 284A9200-62, 284A1204-111 as 284A9200-63, 284A1204-112 as 284A9200-64, 284A1204-114 as 284A9200-65, 284A1204-115 as 284A9200-66, 284A1204-116 as 284A9200-135, and 284A1204-201 REV A as 284A1204-201 REV B. Refer to SOPM 20-50-10, as an accepted procedure.				

FIGURE 55: J4 JUNCTION BOX RELAY INSTALLATION

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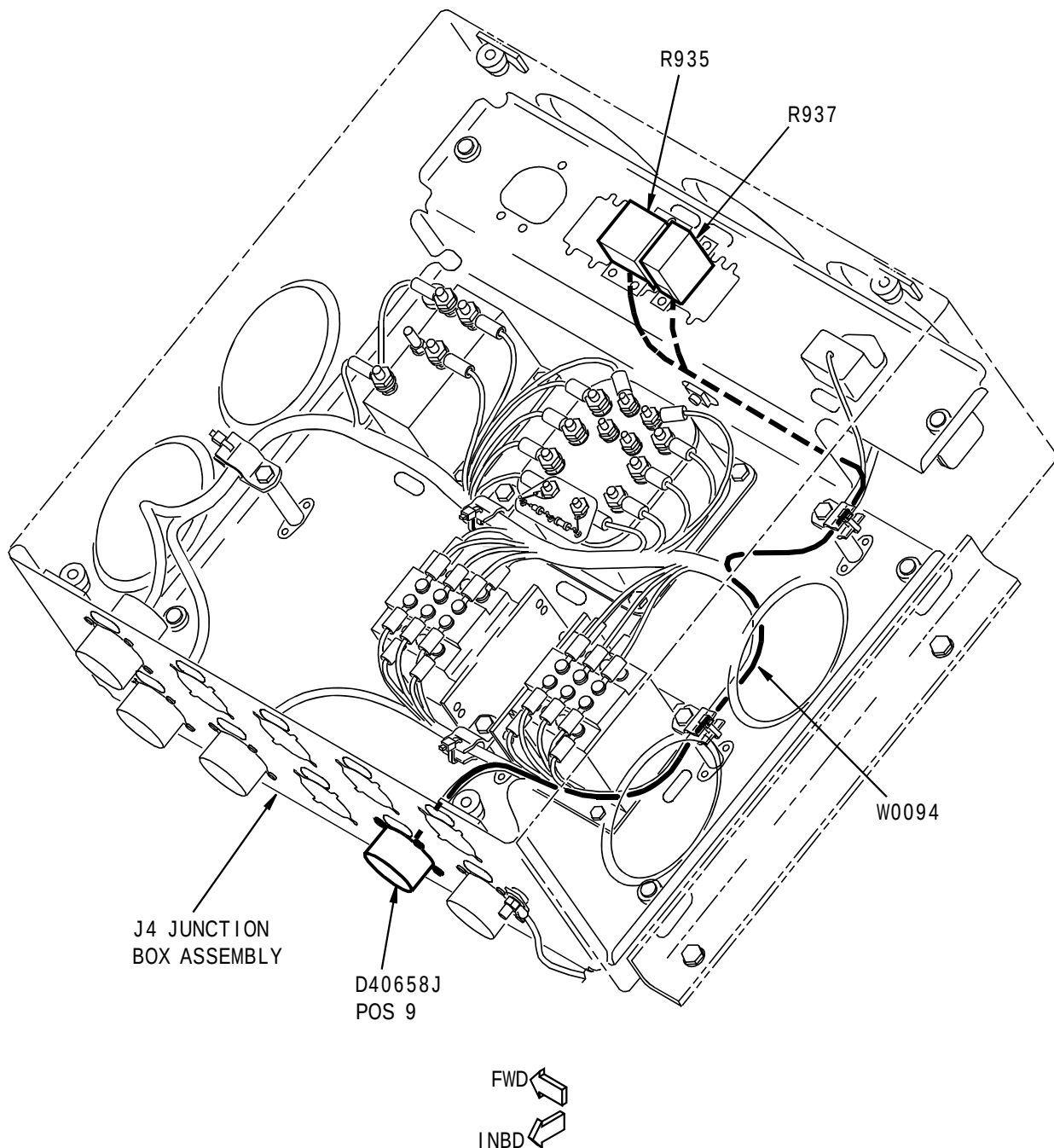
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FIGURE 56: W0094 WIRE BUNDLE ROUTING



This Figure applies to Group 18, Configuration 1:

FIGURE 56: W0094 WIRE BUNDLE ROUTING
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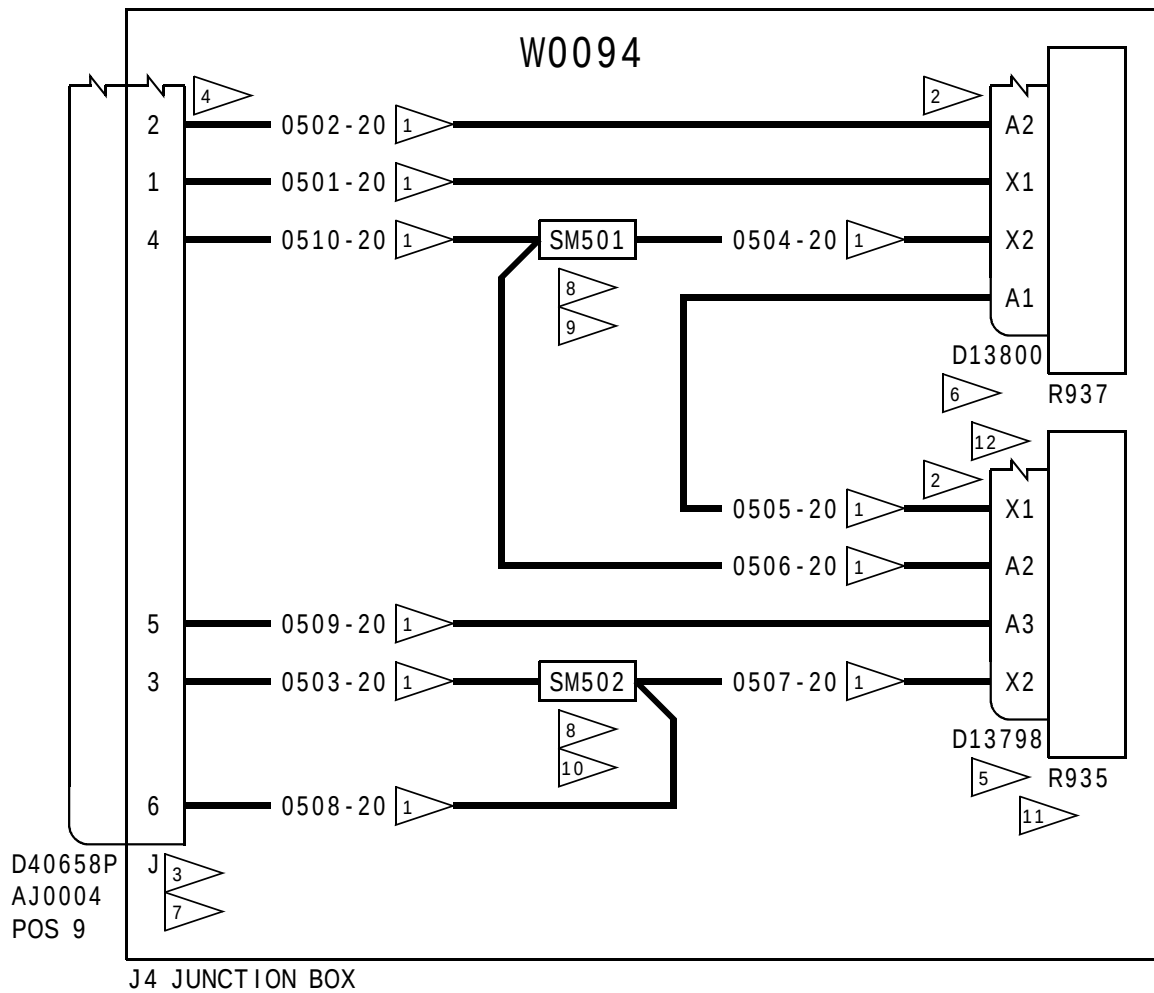
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FIGURE 57: WIRE BUNDLE W0094 WIRING CHANGES



REFERENCE: WIRING DIAGRAM 28-23-11

——— ADDED WIRE OR NEW ROUTING

1360876

This Figure applies to Group 18, Configuration 1:

FIGURE 57: WIRE BUNDLE W0094 WIRING CHANGES
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The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-60, Type 1, Class 1, AWG 20	10	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	1	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Socket Contact	BACC47DJ2	8	Refer to SWPM 20-81-12., as an accepted procedure.
3	Connector	BACC45FN18-31P	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-10406	-	Insert filler rods into empty cavities.
4	Pin Contact	BACC47CN1A	6	Refer to SWPM 20-61-11., as an accepted procedure.
5	Relay Socket	BACS16W10A	1	D13798. Refer to SWPM 20-81-12, as an accepted procedure.
6	Relay Socket	BACS16X6A	1	D13800. Refer to SWPM 20-81-12, as an accepted procedure.
7	I.D. Tape, Connector	280A3113-10403	1	Imprinted "D40658J M/W AJ0004 POS 06". Install ID tape within 6 inches of connector.
8	Splice	D436-37	2	Refer to SWPM 20-31-12., as an accepted procedure.
9	Sleeve, Splice I.D.	280A3113-10404	1	Imprinted "SM501".
10	Sleeve, Splice I.D.	280A3113-10405	1	Imprinted "SM502".
11	I.D. Tape, Connector	280A3113-10401	1	Imprinted "D13798 M/W R935 RLY R AUTO SHUTOFF TD". Install ID tape within 6 inches of connector.
12	I.D. Tape, Connector	280A3113-10402	1	Imprinted "D13800 M/W R937 RLY R AUTO SHUTOFF 115VAC". Install ID tape within 6 inches of connector.

FIGURE 57: WIRE BUNDLE W0094 WIRING CHANGES

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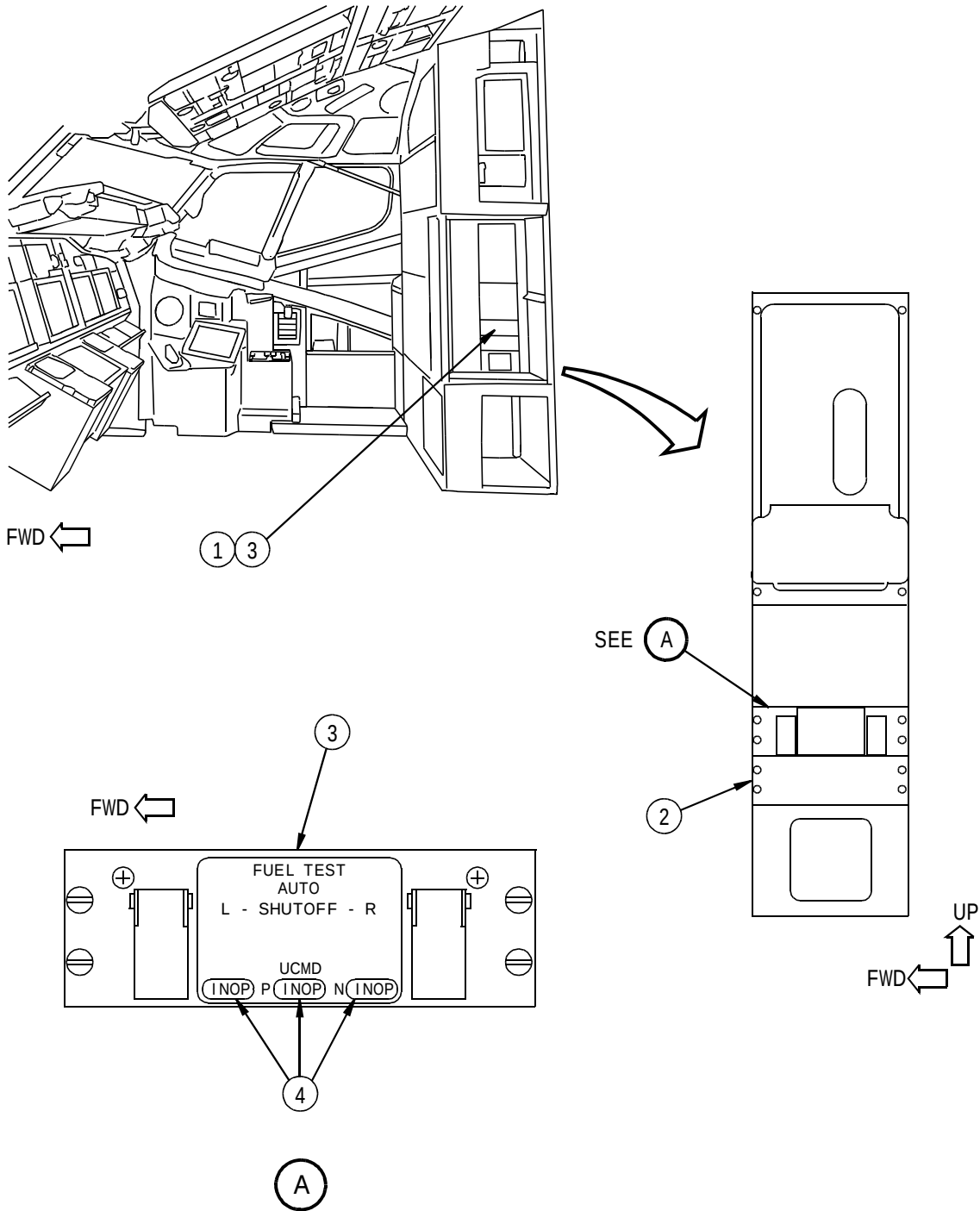
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FIGURE 58: P61-8 FUEL TEST PANEL INSTALLATION



1360877

This Figure applies to Group 15, Configuration 1; Group 16, Configuration 1:

FIGURE 58: P61-8 FUEL TEST PANEL INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Blank Panel	BACP10U0375GC	1	
2	Install (New)	Blank Panel	BACP10U0187GC or BACP10U0187HC	1	(a)
3	Install (New)	P61-8 Fuel Test Panel	233A7206-1	1	Install panel with attached panel fastener studs.
		Panel Fastener Stud	BACS21DX10	4	
4	Install (New)	Marker	BAC27DCC2769	3	
(a) Panel part number BACP10U0187GC can replace or be replaced by BACP10U0187HC.					

FIGURE 58: P61-8 FUEL TEST PANEL INSTALLATION
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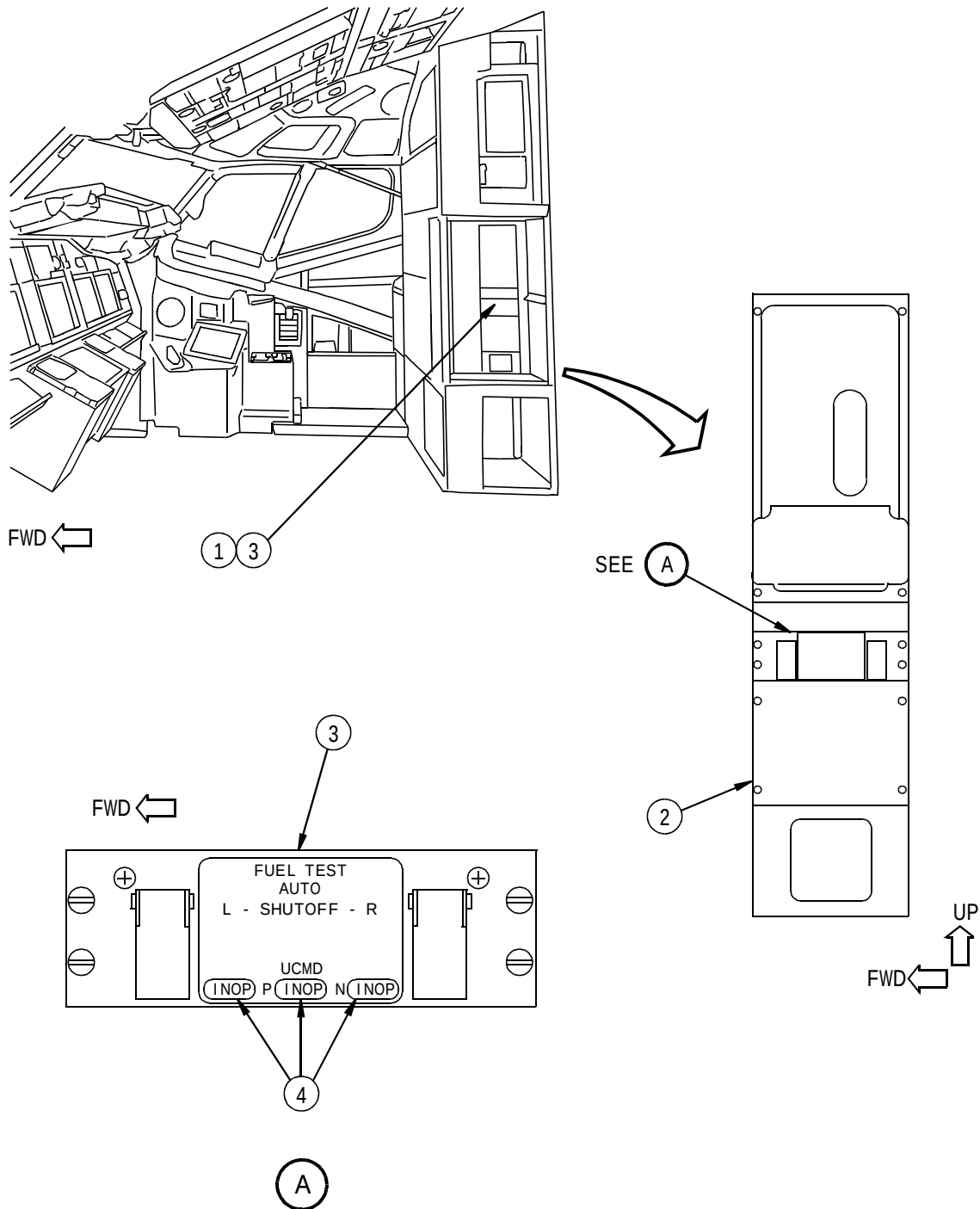
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FIGURE 59: P61-8 FUEL TEST PANEL INSTALLATION



1360897

This Figure applies to Group 17, Configuration 1:

FIGURE 59: P61-8 FUEL TEST PANEL INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Blank Panel	BACP10U0600GC	1	
2	Install (New)	Blank Panel	BACP10U0412GC or BACP10U0412HC	1	(a)
3	Install (New)	P61-8 Fuel Test Panel	233A7206-1	1	Install panel with attached panel fastener studs.
		Panel Fastener Stud	BACS21DX10	4	
4	Install (New)	Marker	BAC27DCC2769	3	
(a) Panel part number BACP10U0412GC can replace or be replaced by BACP10U0412HC.					

FIGURE 59: P61-8 FUEL TEST PANEL INSTALLATION
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Original Issue: January 11, 2006
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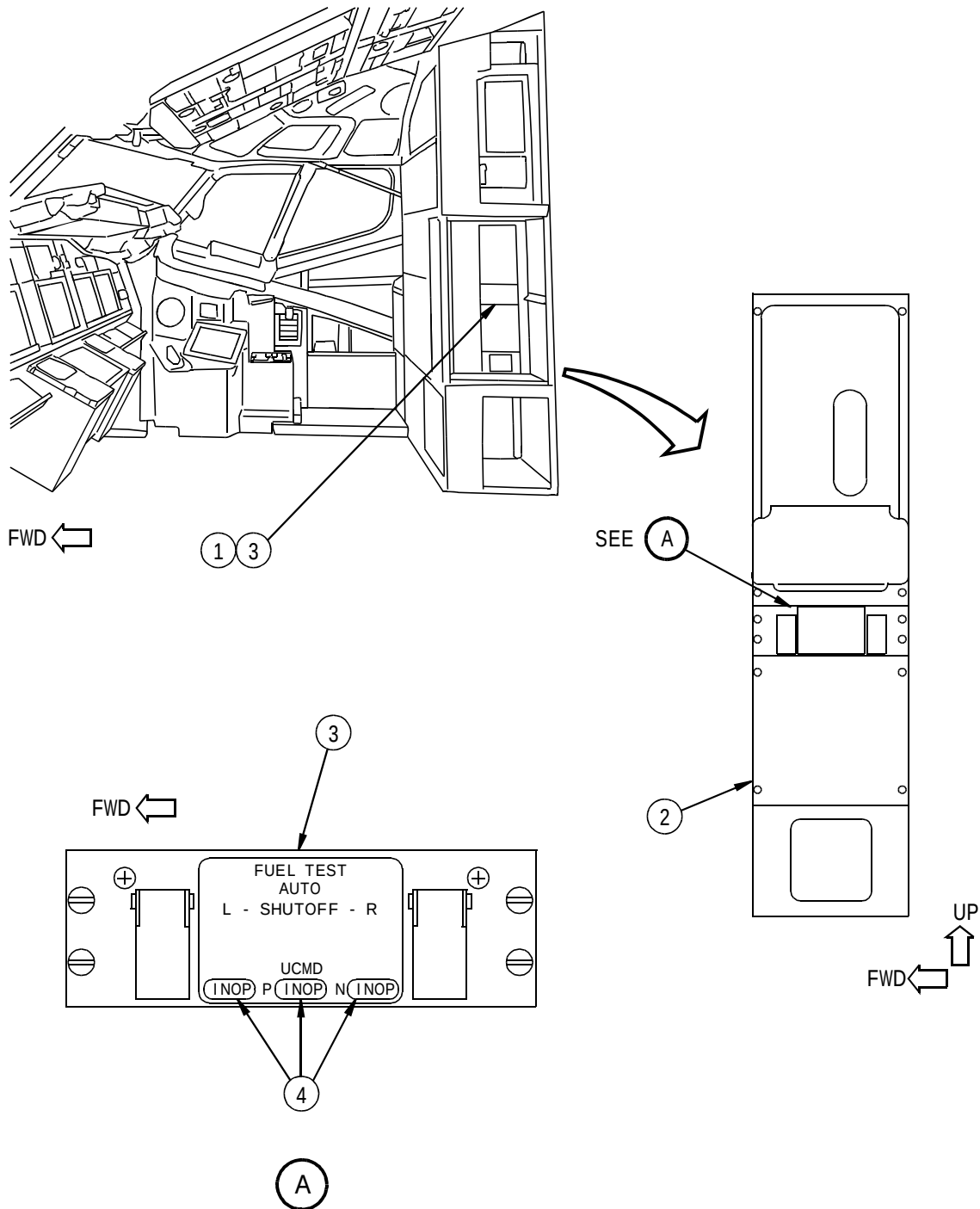
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FIGURE 60: P61-8 FUEL TEST PANEL INSTALLATION



1360891

This Figure applies to Group 12, Configuration 1; Group 13, Configuration 1; Group 14, Configuration 1; Group 18, Configuration 1:

FIGURE 60: P61-8 FUEL TEST PANEL INSTALLATION
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The step numbers shown below agree with the numbers shown in the circle symbols in the figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	Blank Panel	BACP10U0750GC	1	
2	Install (New)	Blank Panel	BACP10U0562GC or BACP10U0562HC	1	(a)
3	Install (New)	P61-8 Fuel Test Panel	233A7206-1	1	Install panel with attached panel fastener studs.
		Panel Fastener Stud	BACS21DX10	4	
4	Install (New)	Marker	BAC27DCC2769	3	
(a) Panel part number BACP10U0562GC can replace or be replaced by BACP10U0562HC.					

FIGURE 60: P61-8 FUEL TEST PANEL INSTALLATION
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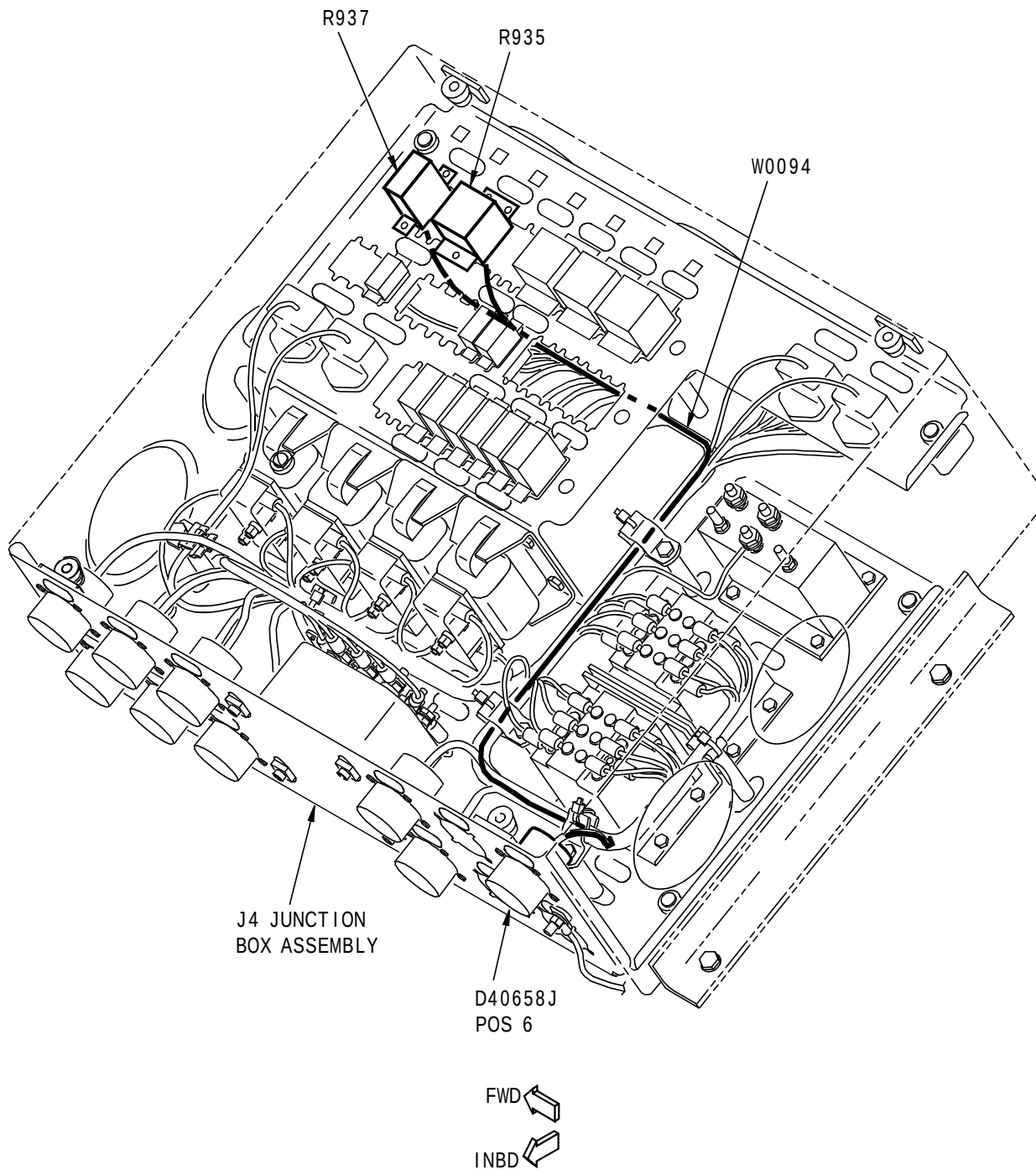
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FIGURE 61: W0094 WIRE BUNDLE ROUTING



1420570

This Figure applies to Group 1, Configuration 1; Group 2, Configuration 1; Group 3, Configuration 1:

FIGURE 61: W0094 WIRE BUNDLE ROUTING
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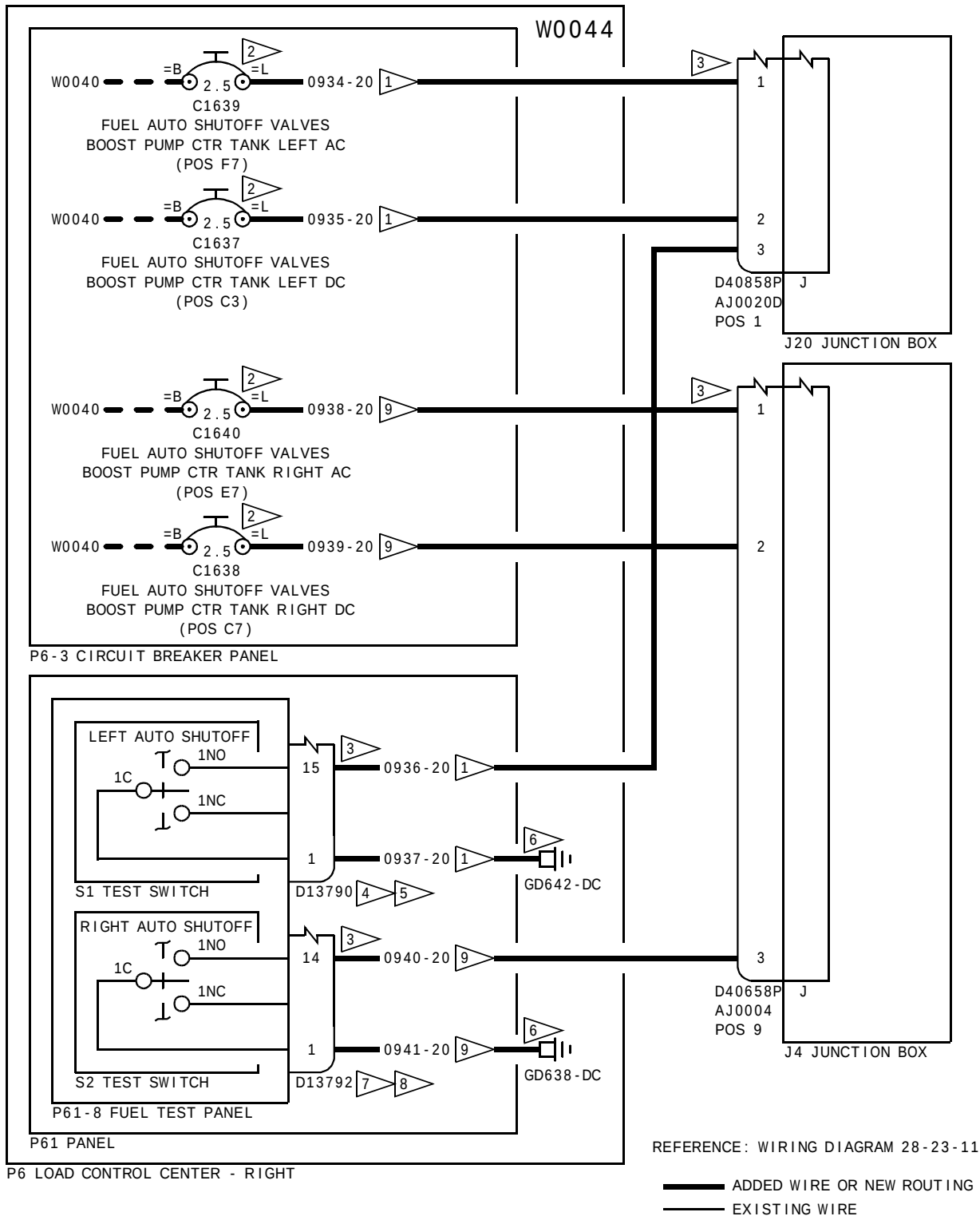
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FIGURE 62: WIRE BUNDLE W0044 WIRING CHANGE



This Figure applies to Group 12, Configuration 1:

FIGURE 62: WIRE BUNDLE W0044 WIRING CHANGE

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BOEING SERVICE BULLETIN 737-28A1206**ALERT****ALERT**

The flag note numbers shown below agree with the numbers shown in the flag symbols in the figure.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire	BMS13-58, Type 1, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.
2	Terminal Lug	BACT12AR203	4	Refer to SWPM 20-30-11., as an accepted procedure.
3	Socket Contact	BACC47CP1S	10	Refer to SWPM 20-61-11., as an accepted procedure.
4	Connector	BACC45FT14-15S	1	Refer to SWPM 20-61-11., as an accepted procedure.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
5	I.D. Tape, Connector	280A3113-11201	1	Imprinted "D13790 M/W P61-08 S1 TEST SW - LEFT". Install ID tape within 6 inches of connector.
6	Contact, Pin	S280W555-920	2	Refer to SWPM 20-90-15., as an accepted procedure.
7	Connector	BACC45FT14-15S6	1	Refer to SWPM 20-61-11.
	Filler Rods	280A3113-11203	-	Insert filler rods into empty cavities.
8	I.D. Tape, Connector	280A3113-11202	1	Imprinted "D13792 M/W P61-08 S2 TEST SW - RIGHT". Install ID tape within 6 inches of connector.
9	Wire	BMS13-48, Type 10, Class 1, AWG 20	4	Identify as shown. Cut to the necessary length.
	Lacing Tape	280A3113-2001	-	Use to re-tie wire bundle. Refer to SWPM 20-10-19., as an accepted procedure.

FIGURE 62: WIRE BUNDLE W0044 WIRING CHANGE**(SHEET 2 OF 2)**

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FIGURE 63: W0044 WIRE BUNDLE ROUTING

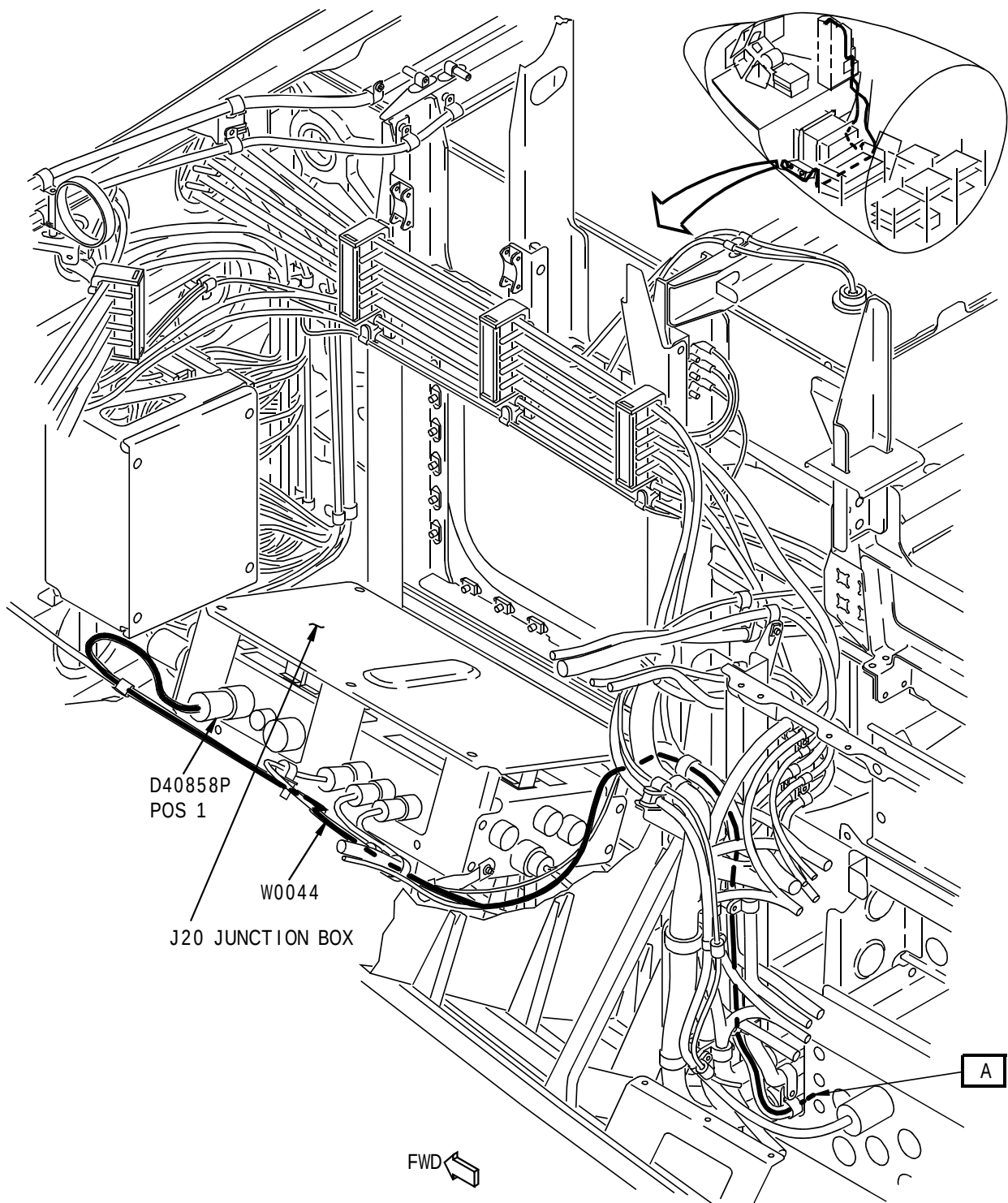


FIGURE 63: W0044 WIRE BUNDLE ROUTING
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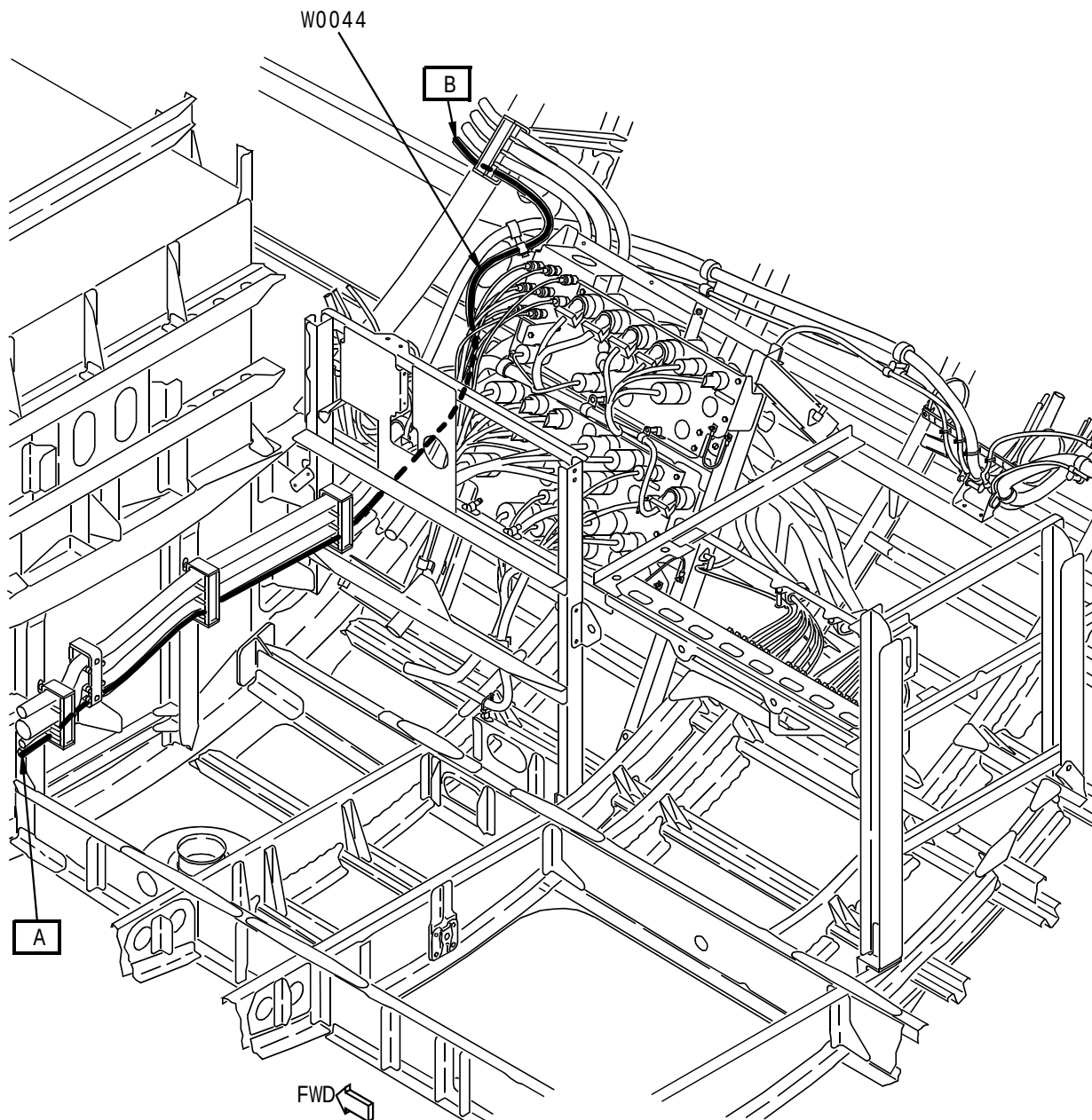
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1479705

FIGURE 63: W0044 WIRE BUNDLE ROUTING
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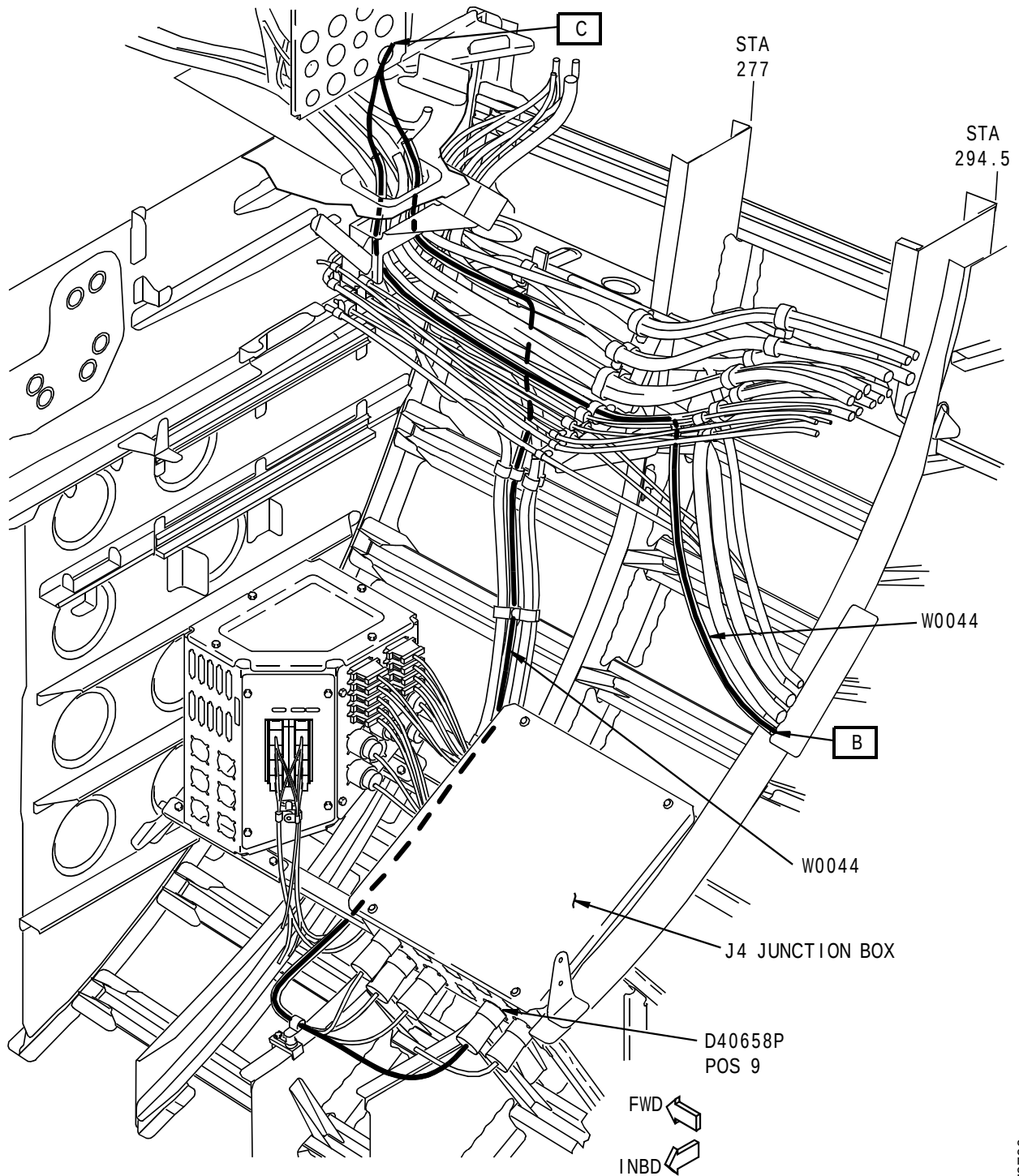


FIGURE 63: W0044 WIRE BUNDLE ROUTING
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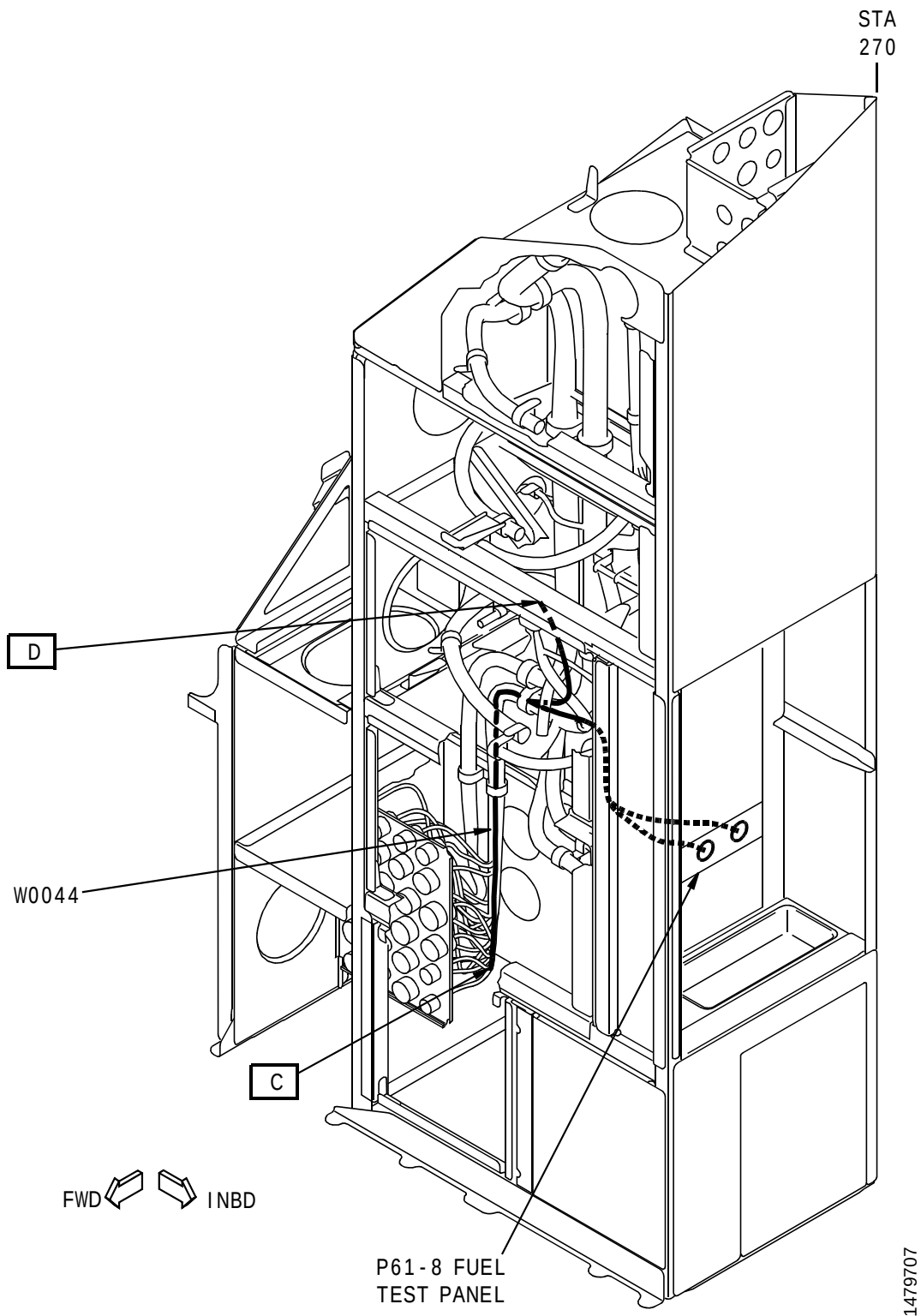


FIGURE 63: W0044 WIRE BUNDLE ROUTING
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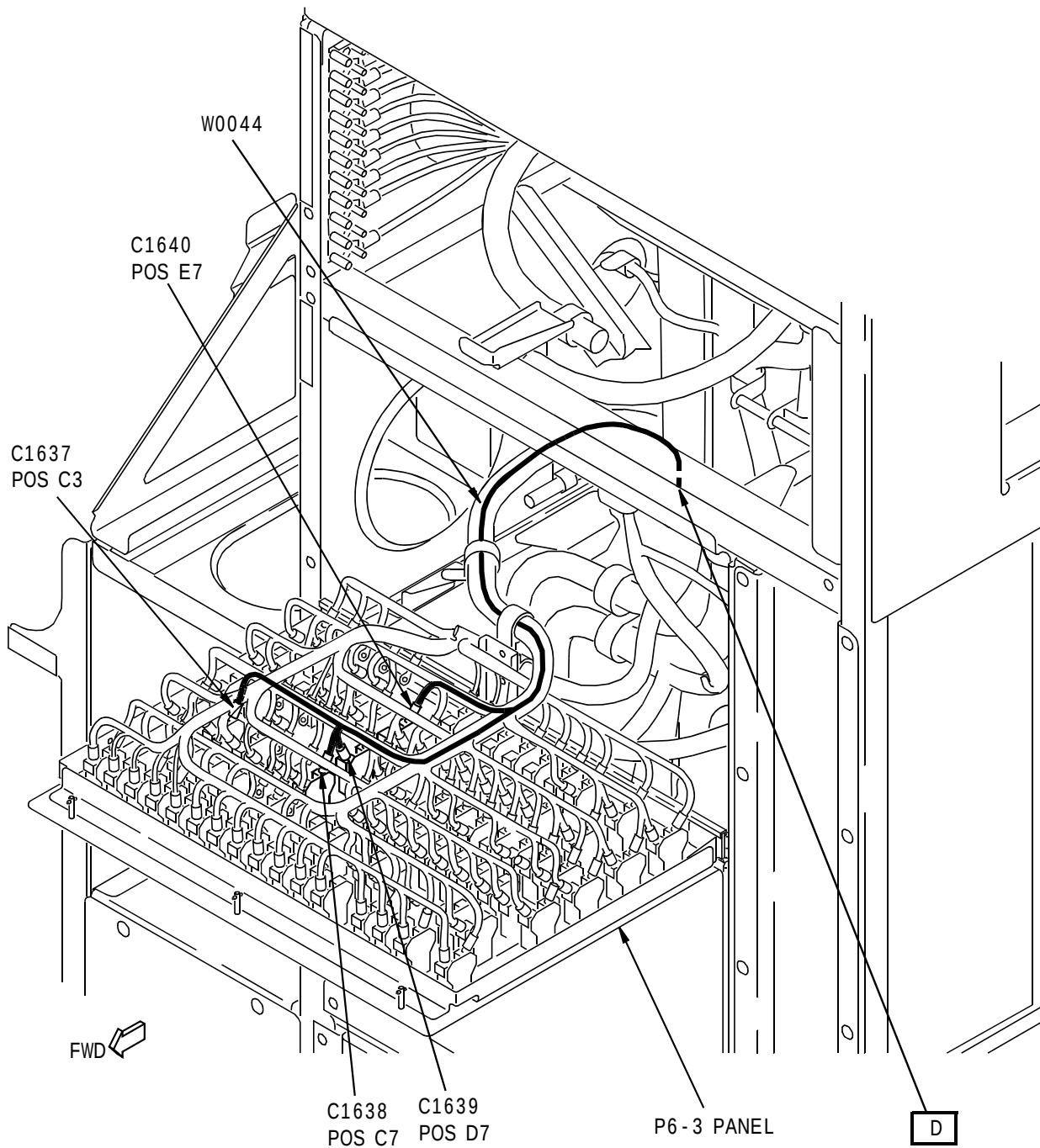
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1479708

This Figure applies to Group 13, Configuration 1; Group 14, Configuration 1; Group 15, Configuration 1; Group 16, Configuration 1; Group 17, Configuration 1; Group 18, Configuration 1:

FIGURE 63: W0044 WIRE BUNDLE ROUTING
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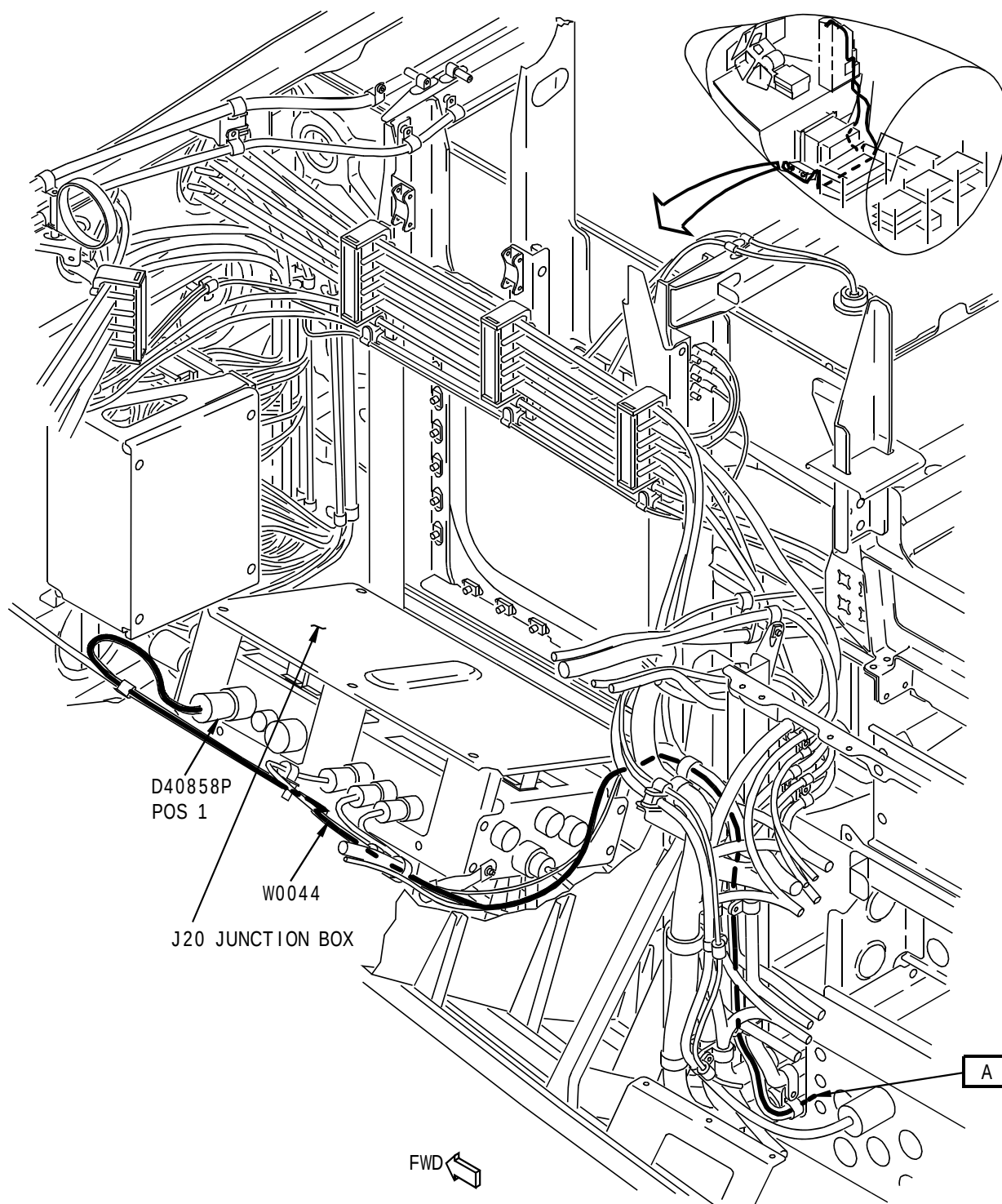
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FIGURE 64: W0044 WIRE BUNDLE ROUTING



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FIGURE 64: W0044 WIRE BUNDLE ROUTING
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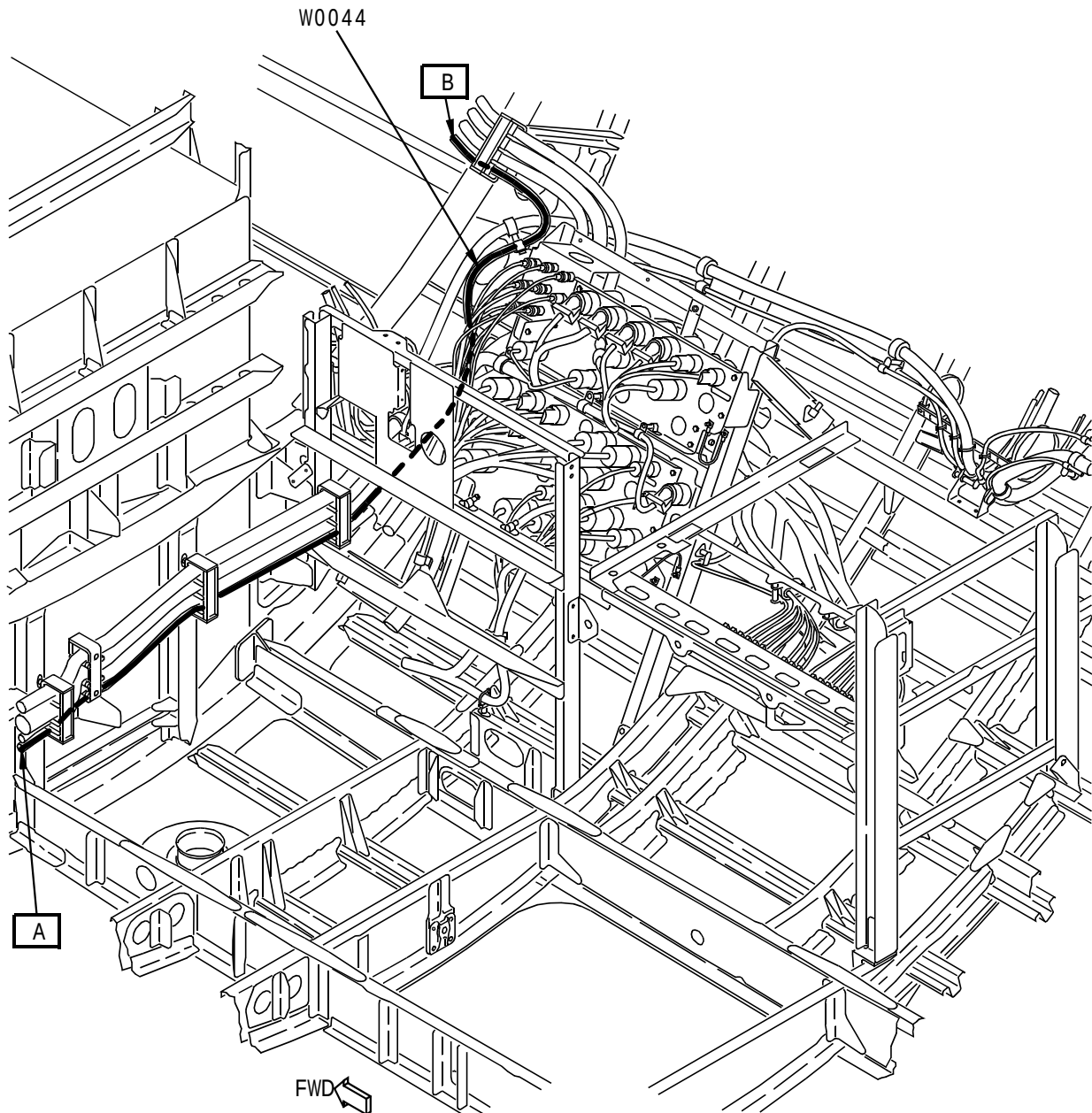
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FIGURE 64: W0044 WIRE BUNDLE ROUTING
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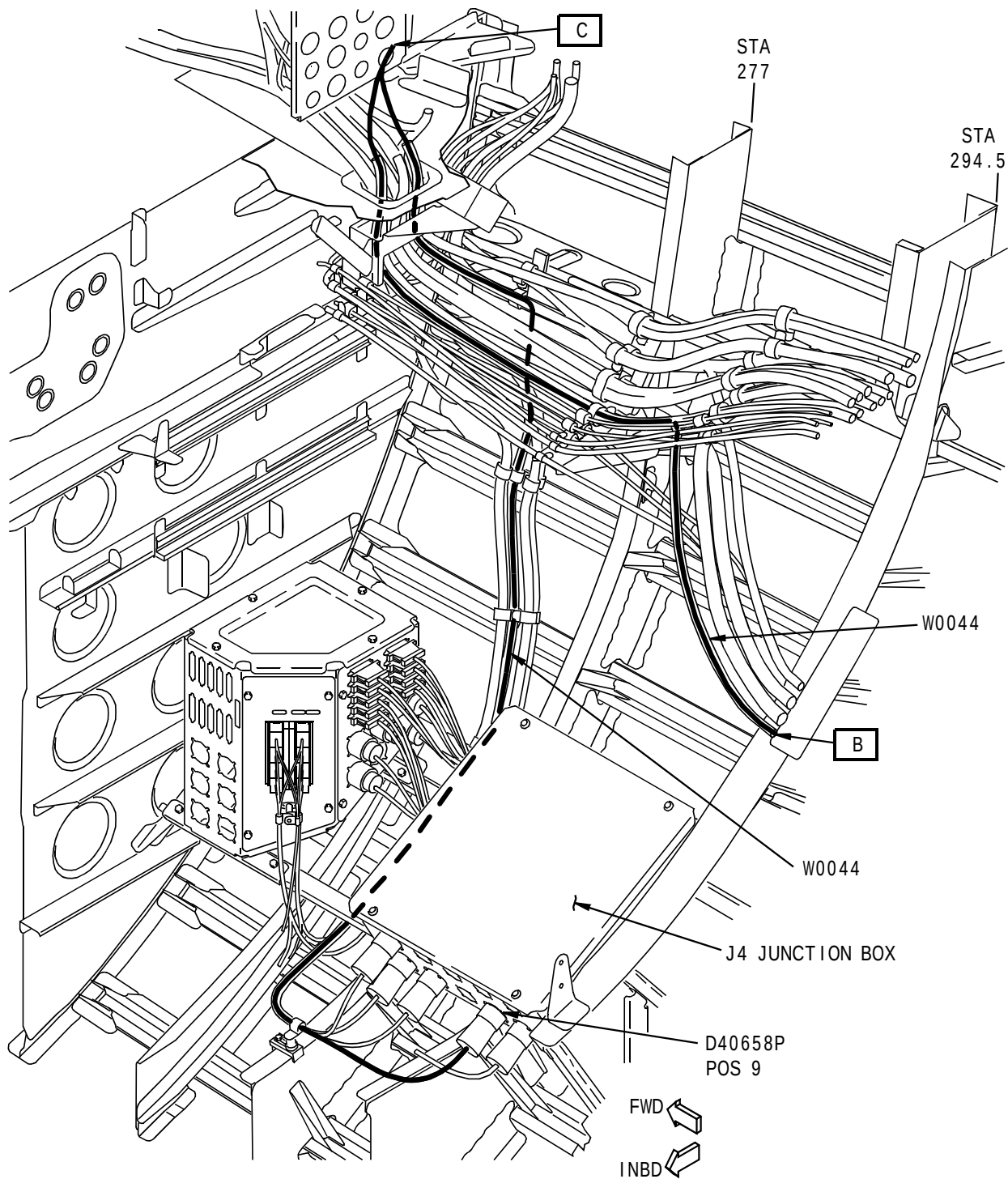


FIGURE 64: W0044 WIRE BUNDLE ROUTING
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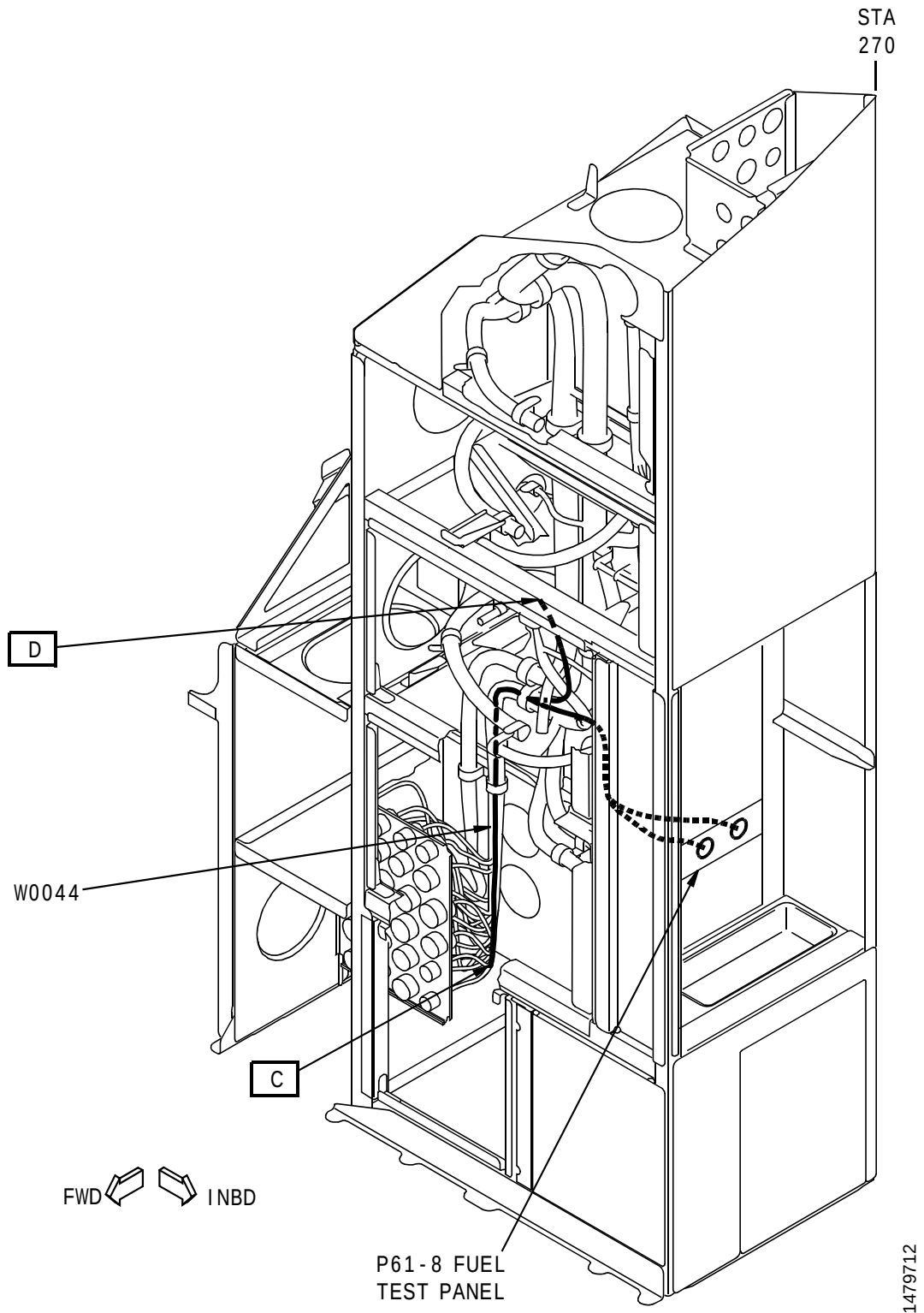


FIGURE 64: W0044 WIRE BUNDLE ROUTING
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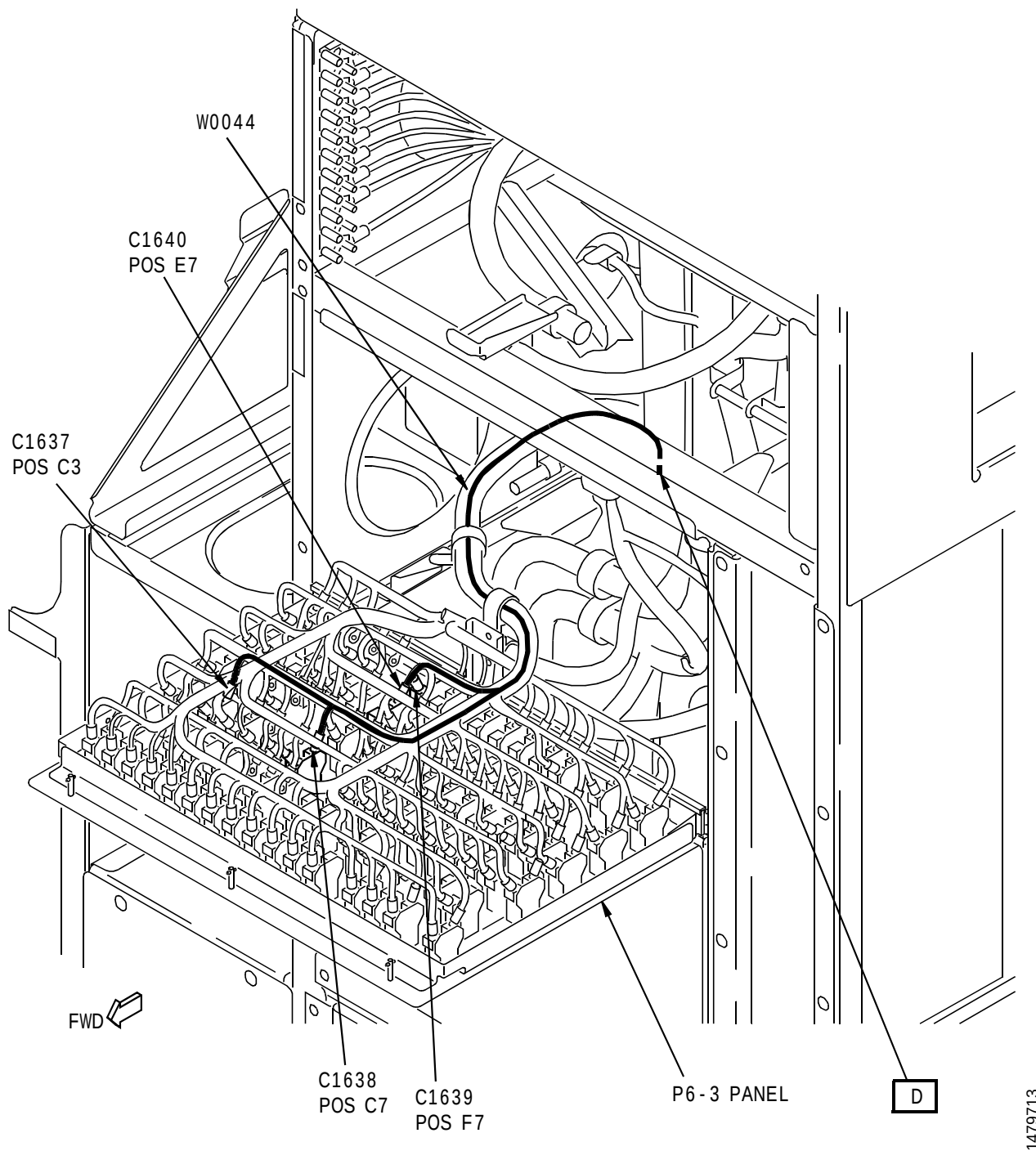
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This Figure applies to Group 12, Configuration 1:

FIGURE 64: W0044 WIRE BUNDLE ROUTING
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