ALERT

Number: **737-31A1332**
Original Issue: January 07, 2010
Revision 2: August 18, 2011
ATA System: 3100

SUBJECT: INDICATING / RECORDING SYSTEMS - Aural Warning System - Installation of the Cabin Altitude Warning System and Takeoff Configuration Warning System Lights

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ALERT

Number: **737-31A1332**
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Revision 2: August 18, 2011
ATA System: 3100

Revision Transmittal Sheet

SUBJECT: INDICATING / RECORDING SYSTEMS - Aural Warning System - Installation of the Cabin Altitude Warning System and Takeoff Configuration Warning System Lights

This revision includes all pages of the service bulletin.

COMPLIANCE INFORMATION RELATED TO THIS REVISION

No more work is necessary on the airplane(s) changed in accordance with Revision 1 of this service bulletin.

NOTE: Wire bundle W5156 in FIGURE 12 through FIGURE 14, FIGURE 25, FIGURE 38, FIGURE 39 and FIGURE 46, is changed to show the A17/B17 positions on the TB501Y terminal block instead of the A25/B25 positions for the installation of the R1999. If an operator previously accomplished one of these wire bundle W5156 figures, no more work is necessary.

Airplanes YJ802-YJ866 were added to Group 1 of this service bulletin effectivity.

REASON FOR REVISION

This revision is sent to add the airplanes YJ802-YJ866 to Group 1 of the service bulletin effectivity. Also, this revision will add new BAE Systems component service bulletins and correct errors that were found by operators during the incorporation of Revision 1 of this service bulletin. YC801-YC892 airplanes are moved from Group 1 to a new Group 22. YA571-YA572 airplanes are moved from Group 1 to a new Group 23.

As a part of a service bulletin validation program, this change was completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 before the release of Revision 2 of this service bulletin. The change completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 is equivalent to the release of Revision 2 of this service bulletin. Airplane YG035 has the configuration of a Group 8 airplane.

These sections were changed:

1. In Summary, Manpower and in Paragraph 1.G., Manpower, a note is changed to add new BAE Systems component service bulletins and a new note is added. New tables are added for Group 22 and Group 23 airplanes. Also, the manpower tables are changed to add new Figures 48, 49 and 50.

2. In Summary, Action and in Paragraph 1.D., Description, instuctions to make changes to the wire bundles W2218, W2135 and W2589 are added.

3. In Paragraph 1.J.1., Existing Data, new BAE Systems component service bulletins and a WDM reference are added.

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4. In Paragraph 1.J.3., Installation Drawings Used in the Preparation of this Service Bulletin, drawings 287A4103 and 288A4151 are added.

5. In Paragraph 1.K., Publications Affected, added the 737 MMEL/DDG references.

6. In Paragraph 2.A., Material - Price and Availability, top kits 002A0006-61, -62, -65 and -75 have been replaced by the 002A0006-106, -107, -108 and -109 top kits. Also, new wire kits 280A3161-1 and 280A3161-102 are added as supplemental kits.

7. In Paragraph 2.C.1., Kits/Parts, new wire kits 280A3161-101, -102 and -103 are added to the top kits. For Group 8-11, 13-14, 16-18, 20 airplanes, the wire kit 280A3161-101 is created to add a wire between the pin 10 of the D654 connector and the GD501-DC ground. For Group 1-10, 12-23 airplanes, a new wire kit 280A3161-102 is created to let operators to use the A17/B17 positions on the TB501Y terminal block instead of the already occupied A25/B25 positions. Also, the wire kit 280A3143-103 is added to the top kits 002A0006-66, -67 and -82.

8. In Paragraph 2.C.1., Kits/Parts, top kits 002A0006-61, -62, -65 and -75 have been replaced by the 002A0006-106, -107, -108 and -109 top kits.

9. In Paragraph 2.C.2., Parts and Materials Supplied by the Operator, new BAE Systems component service bulletins are added.

10. In Paragraph 2.C.2., Parts and Materials Supplied by the Operator, a note (b) is deleted and a note (i) is added.

11. In Paragraph 2.C.3., Parts Modified and Reidentified and in APPENDIX A, new BAE Systems component service bulletins are added.

12. In Paragraph 3.B., Work Instructions, steps are added to make changes to the wire bundles W2218, W2135 and W2589.

13. In FIGURE 1 and FIGURE 2, a note is deleted.

14. In FIGURE 1, notes (a) and (b) are changed to add BAE Systems SB 233A2221-31-05.

15. In FIGURE 2, notes (a) and (b) are changed to add BAE Systems SB 233A2222-31-05.

16. In FIGURE 3, the illustration, the step table and notes are changed.

17. In FIGURE 1 and FIGURE 3, the illustration is changed to show the correct position of the speed brake switches.

18. In FIGURE 5, the illustration is changed to show the correct position of the D40824J and D40578J connectors on the AP0900A disconnect bracket.

19. In FIGURE 9 and FIGURE 33, illustrations are changed to show the correct position of the D40824P and D40578P connectors on the AP0900A disconnect bracket.

20. In FIGURE 10, FIGURE 11, FIGURE 34, FIGURE 35 and FIGURE 44, the illustration is changed to show the correct wire bundle W5514 instead of W5114. Also, a step table note is changed.

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21. In FIGURE 12 through FIGURE 14, FIGURE 25, FIGURE 38, FIGURE 39, FIGURE 46, the illustration is changed to show the A17/B17 positions on the TB501Y terminal block instead of the A25/B25 positions. Also, a note is added to flag note tables.

22. In FIGURE 15, FIGURE 40, FIGURE 41 and FIGURE 45, the illustration is changed to show the correct wire bundle W5156 instead of W5514.

23. In FIGURE 30, a note (b) is added to reference BAE Systems SB 233A3213-21-01.

24. In FIGURE 31 and FIGURE 32, a note (a) is added to reference BAE Systems SB 69-37319-31-05.

25. In FIGURE 40, FIGURE 42 and FIGURE 45, the illustration and flag note table are changed to add a new wire kit 280A3161-103.

26. In FIGURE 47, the illustration and flag note table are changed.

27. New FIGURE 48, FIGURE 49 and FIGURE 50 are added to make changes to the wire bundles W2218, W2135 and W2589.

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 07, 2010
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ALERT

Number: **737-31A1332**
Original Issue: January 07, 2010
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ATA System: 3100

Summary

SUBJECT: INDICATING / RECORDING SYSTEMS - Aural Warning System - Installation of the Cabin Altitude Warning System and Takeoff Configuration Warning System Lights

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 instructions to remove and replace the P1-3 and P3-1 instrument panels in the flight compartment with panels that include two warning level indicator lights. These indicator lights read "TAKEOFF CONFIG" and "CABIN ALTITUDE". The installation of these lights will provide a visual indication to the flight crew in addition to the existing aural warning horn for cabin altitude and takeoff configuration alerts. The visual warning lights are intended to provide an additional indication to crews to prepare a correct takeoff configuration, respond to excessive cabin altitude and avoid confusion between the takeoff configuration and cabin altitude alerts. An unrecognized incorrect takeoff configuration or excessive cabin altitude could prevent a continued safe flight and landing.

Fleet Team Digest (FTD) 737NG-FTD-31-06004 is related to this service bulletin.

Boeing Service Related Problem (SRP) 737-SRP-31-0042 is related to this service bulletin.

NOTE: Operators may wish to incorporate service bulletin 737-21-1165 concurrently with this service bulletin due to common access requirements.

As a part of a service bulletin validation program, this change was completed on airplane YA010 by Service Bulletin 737-31A1332 Original Issue before the release of Revision 1 of this service bulletin. The change completed on airplane YA010 by Service Bulletin 737-31A1332 Original Issue is equivalent to the release of Revision 1 of this service bulletin. Airplane YA010 has the configuration of a Group 1 airplane.

As a part of a service bulletin validation program, this change was completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 before the release of Revision 2 of this service bulletin. The change completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 is equivalent to the release of Revision 2 of this service bulletin. Airplane YG035 has the configuration of a Group 8 airplane.

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ACTION (PRR 38275-118S)

Group 1-6, 8-12, 16-18, 20:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 wire bundle.

Group 8-11, 16-18, 20:
In the flight compartment, replace the existing P5-16 and P5-10 panels. At the lower forward fuselage, open the Forward Access Door 112A to get access into the area forward of the nose landing gear wheel well. On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172.

Group 12:
In the flight compartment, replace the existing P5-16 panel.

Group 7, 13-15, 19, 21:
Get access to the flight compartment. Remove the INOP markers from the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights and replace the "TAKEOFF CONFIG" lights on the P1 and P3 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 wire bundle.

Group 13-14:
In the flight compartment, replace the existing P5-16 and P5-10 panels. At the lower forward fuselage, open the Forward Access Door 112A to get access into the area forward of the nose landing gear wheel well. On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172. Change the W2508 wire bundle.

Group 15, 19:
In the flight compartment, replace the existing P5-16 panel. Change the W2508 wire bundle.

Group 22:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 and W2135 wire bundles.

Group 23:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 and W2589 wire bundles.

Do a test of the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights.

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EFFECTIVITY

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

COMPLIANCE

The Federal Aviation Administration (FAA) will possibly release an Airworthiness Directive related to this service bulletin. The Airworthiness Directive will make the compliance tasks and times given in this service bulletin mandatory.

Boeing recommends that the change given in this service bulletin be done within 36 months after the date on this service bulletin.

INDUSTRY SUPPORT INFORMATION

Group 1-6, 8-23:
Boeing warranty remedies are not available for the configuration changes given in this service bulletin.

Group 7:
Boeing warranty remedies are available for airplanes in warranty as of February 28, 2008. Please refer to Paragraph 2.B., Industry Support Information.

Group 7:
NOTE: The Group 7 airplanes were originally provisioned with warning lights that did not meet the Boeing design specification which require that the light lenses are not interchangeable. The Group 7 modifications in this Service Bulletin will change the configuration to meet Boeing design requirements.

MANPOWER

Airplanes	Total Task Hours	Elapsed Hours
Group 1, 3, 4, 22 and 23	66.00	38.85
Group 2	66.50	39.10
Group 5	66.30	39.00
Group 6	66.10	36.15
Group 7	33.30	20.60
Groups 8, 9, 10, 11, 16	83.15	48.55
Group 12	72.30	42.25
Groups 13 and 14	48.00	30.20
Group 15	37.00	24.15
Groups 17, 18 and 20	78.85	46.40
Group 19	41.70	27.95
Group 21	36.50	23.65

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The time to change the P1-3 instrument panel as given in Service Bulletins BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02, BAE Systems SB 233A2221-31-03 and BAE Systems SB 233A2221-31-05 , and the P3-1 instrument panel as given in Service Bulletins BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02, BAE Systems SB 233A2222-31-03 and BAE Systems SB 233A2222-31-05 is not included.

Group 21, Configuration 2:
The time to replace the P5-16 panel as given in Boeing Service Bulletin 737-21-1171 is not included.

The time to change the P5-16 and P5-10 panels as given in Service Bulletins BAE Systems SB 233A3213-21-01 and BAE Systems SB 69-37319-31-05 is not included.

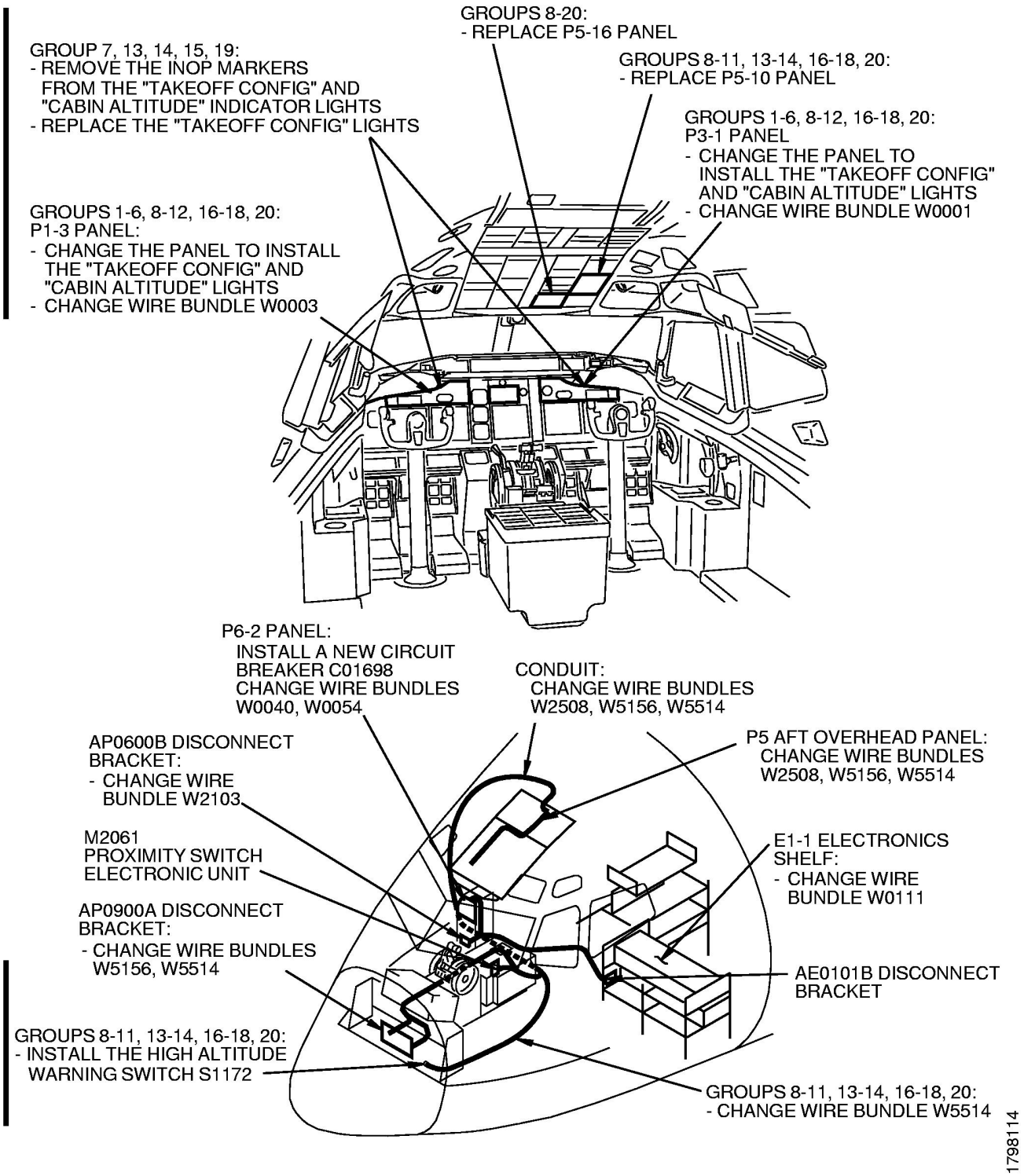
MATERIAL INFORMATION

Boeing Supplied Kits/Parts.

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

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SUBJECT: INDICATING / RECORDING SYSTEMS - Aural Warning System - Installation of the Cabin Altitude Warning System and Takeoff Configuration Warning System Lights

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

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

This service bulletin is for the airplanes shown below. An equivalent change is on subsequent production airplanes. Refer to PRR 38275-118S for data about this change.

GROUP	CONFIGURATION	DESCRIPTION
1	-	Airplanes with different wire configuration.
2	-	BBJ airplanes.
	1	BBJ airplanes with an operative HGS Annunciator Panel.
	2	BBJ airplanes with an inoperative HGS Annunciator Panel.
3	-	Airplanes with different wire configuration.
4	-	Airplanes with different wire configuration.
5	-	Airplanes with different wire configuration.
6	-	Airplanes with different wire configuration.

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GROUP	CONFIGURATION	DESCRIPTION
7	-	Airplanes with different wire configuration.
8	-	737-700 airplanes with the high altitude landing option and different wire configuration.
9	-	737-800/-900 airplanes with the high altitude landing option and different wire configuration.
10	-	737-700 airplanes with the high altitude landing option and different wire configuration.
11	-	737-700 airplanes with the high altitude landing option and different wire configuration.
12	-	Airplanes with the high altitude landing option and different wire configuration.
13	-	737-700 airplanes with the high altitude landing option and different wire configuration.
14	-	737-800/-900 airplanes with the high altitude landing option and different wire configuration.
15	-	Airplanes with the high altitude landing option and different wire configuration.
16	-	737-700 airplanes with the high altitude landing option and different wire configuration.
17	-	737-700 airplanes with the high altitude landing option and different wire configuration.
18	-	737-800 airplanes with the high altitude landing option and different wire configuration.
19	-	Airplanes with the high altitude landing option and different wire configuration.
20	-	Airplanes with the high altitude landing option and different wire configuration.

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GROUP	CONFIGURATION	DESCRIPTION
21	-	Airplanes with the high altitude landing option and different wire configuration.
	1	Airplanes that have accomplished the concurrent service bulletin 737-21-1171.
	2	Airplanes that have not accomplished the concurrent service bulletin 737-21-1171.
22	-	Airplanes with different wire configuration.
23	-	Airplanes with different wire configuration.

Airplane Models:

737-600, 737-700, 737-700C, 737-800, 737-900, 737-900ER

Variable Number	Group
YA001 - YA008	4
YA009 - YA099	1
YA101 - YA199	1
YA201 - YA202	3
YA203 - YA211	1
YA221	1
YA231 - YA235	3
YA236 - YA242	1
YA251	3
YA252 - YA256	1
YA271 - YA272	1
YA291	1
YA301	3
YA302	1
YA311 - YA314	1
YA321 - YA323	1
YA336 - YA345	1
YA351	1
YA356 - YA357	1
YA366 - YA367	1

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Variable Number	Group
YA371 - YA377	1
YA501 - YA536	16
YA541 - YA552	1
YA571 - YA572	23
YA573 - YA578	1
YA601 - YA615	1
YA621 - YA622	1
YA626 - YA631	1
YA635 - YA636	1
YA641 - YA642	1
YA645 - YA650	1
YA656 - YA659	1
YA666 - YA667	1
YA671 - YA672	1
YA681 - YA687	6
YA688 - YA691	1
YA701 - YA710	1
YA721 - YA722	1
YA731 - YA734	1
YA751 - YA754	1
YA755 - YA756	8
YA801 - YA803	1
YA809	1
YA811 - YA814	12
YA831 - YA835	1
YA841 - YA862	1
YA881 - YA882	1
YA891 - YA892	1
YA961	8
YA962 - YA963	17
YA964 - YA978	8
YB001 - YB006	1
YB101 - YB132	1

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Variable Number	Group
YB151 - YB153	1
YB156 - YB158	1
YB161 - YB164	1
YB171 - YB172	1
YB181 - YB184	12
YB201 - YB208	1
YB271	1
YB276	1
YB301 - YB310	1
YB371 - YB392	1
YB501 - YB502	6
YB521 - YB526	1
YB541 - YB544	1
YB551	1
YB561 - YB570	1
YB571 - YB580	12
YB581 - YB598	1
YB601 - YB632	1
YB651	1
YB656	1
YB671 - YB672	1
YB851 - YB863	1
YB871 - YB874	1
YB881 - YB893	1
YB901 - YB903	1
YB911	1
YB961 - YB967	1
YB968 - YB974	7
YB986 - YB987	7
YC001 - YC003	3
YC004 - YC030	1
YC051 - YC084	1
YC091 - YC094	1

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Variable Number	Group
YC101 - YC104	1
YC111 - YC113	1
YC121	1
YC126 - YC127	1
YC136 - YC141	1
YC146 - YC147	1
YC151 - YC156	1
YC166 - YC171	1
YC176 - YC178	1
YC179	7
YC186 - YC190	1
YC201 - YC203	1
YC206 - YC207	1
YC301 - YC305	1
YC321 - YC325	18
YC326 - YC363	9
YC364 - YC366	18
YC367	9
YC368 - YC373	18
YC374 - YC380	9
YC381 - YC387	1
YC391 - YC394	1
YC396	1
YC401 - YC417	1
YC421 - YC422	1
YC426 - YC428	1
YC436 - YC439	1
YC441 - YC448	1
YC451 - YC455	1
YC459	1
YC461 - YC467	1
YC471 - YC499	1
YC501 - YC526	1

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Variable Number	Group
YC571 - YC583	1
YC587 - YC589	1
YC591 - YC593	1
YC601 - YC655	1
YC681 - YC696	1
YC701 - YC715	1
YC720 - YC725	1
YC727 - YC749	1
YC750	7
YC751 - YC752	1
YC761 - YC770	1
YC781 - YC793	1
YC801 - YC892	22
YC901 - YC907	1
YC921 - YC922	1
YC931 - YC932	1
YC941 - YC951	1
YC971 - YC978	1
YC981 - YC983	1
YD001 - YD007	1
YD021 - YD025	1
YD041 - YD057	1
YD081 - YD084	1
YD101 - YD110	1
YD121 - YD126	1
YD151 - YD159	1
YD171 - YD172	1
YD201 - YD203	1
YD206 - YD209	1
YD216 - YD219	1
YD251 - YD254	1
YD256 - YD257	1
YD261	1

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Variable Number	Group
YD301 - YD334	1
YD391	1
YD401 - YD410	9
YD412 - YD414	9
YD415	15
YD481 - YD485	1
YD491 - YD499	1
YD501 - YD512	1
YD531 - YD535	1
YD541 - YD547	1
YD561 - YD564	1
YD571 - YD572	1
YD591 - YD595	1
YD601 - YD612	9
YD651 - YD655	1
YE001 - YE020	1
YE051	1
YE101 - YE109	1
YE151 - YE157	1
YE171 - YE172	1
YE201 - YE206	1
YE301 - YE305	1
YE321 - YE326	1
YE371 - YE383	1
YF001	7
YF021 - YF026	7
YF051 - YF052	7
YF086	7
YF106 - YF107	7
YF111	7
YF176 - YF178	7
YG001 - YG018	2
YG019	8

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Variable Number	Group
YG020 - YG023	2
YG024 - YG044	8
YG061 - YG064	8
YG066 - YG073	8
YG074	11
YG075 - YG080	8
YG081	11
YG082 - YG083	8
YG084	11
YG085 - YG089	8
YG091 - YG093	8
YG094	10
YG095 - YG099	8
YG101 - YG103	20
YG111 - YG112	8
YG113 - YG114	13
YG116 - YG117	8
YG118 - YG120	13
YG201 - YG205	8
YG211 - YG214	8
YG251 - YG252	1
YG501 - YG509	5
YG601 - YG602	5
YG701	15
YG711	7
YH001 - YH004	1
YH005 - YH012	7
YH051 - YH054	7
YH101 - YH113	14
YH114 - YH115	21
YH201 - YH202	7
YH206 - YH207	7
YH301	14

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Variable Number	Group
YJ001 - YJ002	1
YJ003 - YJ008	12
YJ009 - YJ010	15
YJ011 - YJ013	1
YJ021	1
YJ471 - YJ480	1
YJ501 - YJ517	9
YJ531 - YJ558	9
YJ559 - YJ565	14
YJ566 - YJ568	21
YJ591 - YJ594	9
YJ595 - YJ597	14
YJ631 - YJ632	1
YJ671 - YJ694	1
YJ801 - YJ867	1
YJ871 - YJ872	1
YJ873 - YJ875	7
YJ901 - YJ903	1
YJ904	7
YJ908	7
YJ911 - YJ928	1
YJ929	7
YJ931 - YJ936	1
YJ937	7
YJ941 - YJ951	1
YJ952 - YJ956	7
YJ976 - YJ977	1
YK001 - YK007	1
YK101 - YK104	1
YK111 - YK112	1
YK121 - YK122	1
YK131 - YK132	1
YK133	7

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Variable Number	Group
YK136 - YK139	1
YK141 - YK142	1
YK146 - YK148	1
YK151 - YK154	1
YK161 - YK166	1
YK167	7
YK171	7
YK176	7
YK301 - YK307	1
YK308 - YK309	7
YK321 - YK334	1
YK335 - YK339	7
YK361 - YK371	1
YK372 - YK375	7
YK401 - YK406	1
YK426 - YK427	1
YK431 - YK450	1
YK456 - YK460	1
YK476	1
YK480 - YK484	1
YK485	7
YK495	7
YK511 - YK514	1
YK515 - YK516	7
YK521 - YK523	7
YK551 - YK565	1
YK566 - YK570	7
YK571	1
YK576 - YK577	1
YK580 - YK584	1
YK585	7
YK601 - YK602	1
YK606 - YK607	1

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Variable Number	Group
YK611 - YK614	1
YK615 - YK616	7
YK621 - YK625	1
YK626 - YK627	7
YK631 - YK633	1
YK634	7
YK641 - YK642	1
YK643 - YK644	7
YK651 - YK657	1
YK658 - YK661	7
YK671	7
YK701 - YK707	1
YK708 - YK712	7
YK716 - YK717	1
YK718 - YK719	7
YK721 - YK734	1
YK735 - YK741	7
YK751 - YK761	7
YK791 - YK792	1
YK796 - YK797	1
YK801 - YK848	1
YK849 - YK887	7
YK901 - YK910	1
YK911	7
YK918	7
YK921	1
YK922 - YK927	7
YK941 - YK947	1
YK948 - YK953	7
YK961 - YK968	1
YK969 - YK971	7
YK981 - YK982	1
YK983 - YK985	7

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Variable Number	Group
YL001 - YL005	1
YL011 - YL015	1
YL016	7
YL021 - YL023	1
YL024	7
YL051 - YL052	1
YL056 - YL057	1
YL061	1
YL066	1
YL067 - YL069	7
YL076 - YL077	7
YL101	1
YL102 - YL117	7
YL201 - YL202	1
YL203 - YL209	7
YL271 - YL272	1
YL281	14
YL282	7
YL301 - YL303	1
YL311 - YL312	1
YL316 - YL319	7
YL351	7
YL371 - YL373	7
YL421 - YL423	1
YL424 - YL426	7
YL431 - YL433	1
YL434 - YL437	7
YL461 - YL468	1
YL469 - YL473	7
YL501 - YL503	1
YL504 - YL505	7
YL531 - YL534	7
YL561 - YL565	7

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Variable Number	Group
YL591 - YL592	7
YL601 - YL606	7
YL611	7
YL616	7
YL621	7
YL661 - YL664	7
YL901 - YL908	7
YL931 - YL933	7
YL951 - YL952	7
YM101	1
YM102 - YM103	12
YM201 - YM230	1
YM231 - YM238	7
YM251 - YM299	1
YM301 - YM329	1
YM330 - YM374	7
YM471	1
YM481 - YM484	1
YM501 - YM512	1
YM513 - YM515	7
YM521 - YM522	1
YM541	1
YM551 - YM553	1
YM571 - YM572	1
YM581 - YM582	1
YM591 - YM593	12
YM631 - YM634	1
YM641 - YM644	1
YM645 - YM651	7
YM671	1
YM672	7
YM691 - YM693	7
YM701 - YM702	21

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Variable Number	Group
YN001 - YN011	1
YN012 - YN016	7
YN021	12
YN022 - YN024	15
YN061	1
YN071 - YN077	1
YN078 - YN079	7
YN091 - YN092	19
YN101 - YN112	1
YN121	19
YN201	1
YN211 - YN216	7
YN231 - YN232	7

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

Group 1-20; Group 21, Configuration 1; Group 22-23:
None.

Group 21, Configuration 2:
The service bulletin listed below must be done before or at the same time as this service bulletin:

Group 21, Configuration 2:

Company	Service Bulletin	Description
Boeing	737-21-1171 Original Issue	Replaces the basic P5-16 panel with a high altitude landing P5-16 panel.

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C. Reason

This service bulletin gives instructions to remove and replace the P1-3 and P3-1 instrument panels in the flight compartment with panels that include two warning level indicator lights. These indicator lights read "TAKEOFF CONFIG" and "CABIN ALTITUDE". The installation of these lights will provide a visual indication to the flight crew in addition to the existing aural warning horn for cabin altitude and takeoff configuration alerts. The visual warning lights are intended to provide an additional indication to crews to prepare a correct takeoff configuration, respond to excessive cabin altitude and avoid confusion between the takeoff configuration and cabin altitude alerts. An unrecognized incorrect takeoff configuration or excessive cabin altitude could prevent a continued safe flight and landing.

Fleet Team Digest (FTD) 737NG-FTD-31-06004 is related to this service bulletin.

Boeing Service Related Problem (SRP) 737-SRP-31-0042 is related to this service bulletin.

NOTE: Operators may wish to incorporate service bulletin 737-21-1165 concurrently with this service bulletin due to common access requirements.

Revision 1 is sent to tell operators that airplanes with the high altitude landing configuration of the Cabin Altitude Warning System are added to this service bulletin effectivity. New Groups 8 through 21 have been created.

As a part of a service bulletin validation program, this change was completed on airplane YA010 by Service Bulletin 737-31A1332 Original Issue before the release of Revision 1 of this service bulletin. The change completed on airplane YA010 by Service Bulletin 737-31A1332 Original Issue is equivalent to the release of Revision 1 of this service bulletin. Airplane YA010 has the configuration of a Group 1 airplane.

Revision 2 is sent to add the airplanes YJ802-YJ866 to Group 1 of the service bulletin effectivity. Also, this revision will add new BAE Systems component service bulletins and correct errors that were found by operators during the incorporation of Revision 1 of this service bulletin. YC801-YC892 airplanes are moved from Group 1 to a new Group 22. YA571-YA572 airplanes are moved from Group 1 to a new Group 23.

As a part of a service bulletin validation program, this change was completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 before the release of Revision 2 of this service bulletin. The change completed on airplane YG035 by Service Bulletin 737-31A1332 Revision 1 is equivalent to the release of Revision 2 of this service bulletin. Airplane YG035 has the configuration of a Group 8 airplane.

D. Description

Group 1-6, 8-12, 16-18, 20:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 wire bundle.

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Group 8-11, 16-18, 20:
In the flight compartment, replace the existing P5-16 and P5-10 panels. At the lower forward fuselage, open the Forward Access Door 112A to get access into the area forward of the nose landing gear wheel well. On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172.

Group 12:
In the flight compartment, replace the existing P5-16 panel.

Group 7, 13-15, 19, 21:
Get access to the flight compartment. Remove the INOP markers from the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights and replace the "TAKEOFF CONFIG" lights on the P1 and P3 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 wire bundle.

Group 13-14:
In the flight compartment, replace the existing P5-16 and P5-10 panels. At the lower forward fuselage, open the Forward Access Door 112A to get access into the area forward of the nose landing gear wheel well. On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172. Change the W2508 wire bundle.

Group 15, 19:
In the flight compartment, replace the existing P5-16 panel. Change the W2508 wire bundle.

Group 22:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 and W2135 wire bundles.

Group 23:
Get access to the flight compartment. Remove the P1-3 and P3-1 instrument panels to install the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights on the panels. Change the W0001 and W0003 wire bundles. Install the changed P1-3 and P3-1 panels. On the P6-2 panel, install a new circuit breaker C01698. Change the W2508, W5156 and W5514 wire bundles. Change the W0040 and W0054 wire bundles. On the E1-1 electronics shelf, change the W0111 wire bundle. Change the W2103 wire bundle. Change the W2218 and W2589 wire bundles.

Do a test of the "TAKEOFF CONFIG" and "CABIN ALTITUDE" indicator lights.

Revision 1 - No more work is necessary on airplanes changed in accordance with the original issue of this service bulletin.

Revision 2 - No more work is necessary on the airplane(s) changed in accordance with Revision 1 of this service bulletin.

NOTE: Wire bundle W5156 in FIGURE 12 through FIGURE 14, FIGURE 25, FIGURE 38, FIGURE 39 and FIGURE 46, is changed to show the A17/B17 positions on the TB501Y terminal block instead of the A25/B25 positions for the installation of the R1999. If an operator previously accomplished one of these wire bundle W5156 figures, no more work is necessary.

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The work in this service bulletin is done in the maintenance zone(s) given below.

Group 1:

Affected Maintenance Zones	
Model	**Zone**
737-600, 737-700, 737-800, 737-900, 737-900ER	112, 113, 114, 117, 118, 211, 212, 222

Group 2, 4, 6, 8, 10-11, 13, 16-17, 19-20, 23:

Affected Maintenance Zones	
Model	**Zone**
737-700	112, 113, 114, 117, 118, 211, 212, 222

Group 3, 12:

Affected Maintenance Zones	
Model	**Zone**
737-700, 737-800	112, 113, 114, 117, 118, 211, 212, 222

Group 5:

Affected Maintenance Zones	
Model	**Zone**
737-700C	112, 113, 114, 117, 118, 211, 212, 222

Group 7:

Affected Maintenance Zones	
Model	**Zone**
737-700, 737-700C, 737-800, 737-900ER	112, 113, 114, 117, 118, 211, 212, 222

Group 9:

Affected Maintenance Zones	
Model	**Zone**
737-800, 737-900	112, 113, 114, 117, 118, 211, 212, 222

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Group 14:

Affected Maintenance Zones	
Model	**Zone**
737-800, 737-900ER	112, 113, 114, 117, 118, 211, 212, 222

Group 15:

Affected Maintenance Zones	
Model	**Zone**
737-700, 737-700C, 737-800	112, 113, 114, 117, 118, 211, 212, 222

Group 18, 22:

Affected Maintenance Zones	
Model	**Zone**
737-800	112, 113, 114, 117, 118, 211, 212, 222

Group 21:

Affected Maintenance Zones	
Model	**Zone**
737-700, 737-800, 737-900ER	112, 113, 114, 117, 118, 211, 212, 222

E. Compliance

The Federal Aviation Administration (FAA) will possibly release an Airworthiness Directive related to this service bulletin. The Airworthiness Directive will make the compliance tasks and times given in this service bulletin mandatory.

Boeing recommends that the change given in this service bulletin be done within 36 months after the date on this service bulletin.

F. Approval

This service bulletin was examined by the Federal Aviation Administration (FAA). The changes specified in this service bulletin comply with the applicable regulations and are FAA approved, as well as European Aviation Safety Agency (EASA)/Joint Aviation Authorities (JAA) approved for all EASA/JAA approved airplanes listed in the service bulletin effectivity. This service bulletin and its approval were based on the airplane in its original Boeing delivery configuration or as modified by other 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.

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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 inspect the work
- Time to cure the materials
- Time to make the parts
- Time to find the tools.

Group 1:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.00	38.85
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 2:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00

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Group 2:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		66.50	39.10
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 3:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 13	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75

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Group 3:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.00	38.85
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 4:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 7	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 14	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.00	38.85
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

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Group 5:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 10	2	7.20	3.60
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.30	39.00
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 6:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 18 and FIGURE 19	1	0.75	0.75

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Group 6:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 18 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.10	38.95
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 7:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 25	2	9.60	4.80
FIGURE 26	1	0.20	0.20
FIGURE 48	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		33.30	20.60

Group 8, 16:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25

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Group 8, 16:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 31	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 34	2	16.60	8.30
FIGURE 33 and FIGURE 38	2	14.10	7.05
FIGURE 33 and FIGURE 40	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		83.15	48.55
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 9:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65

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Group 9:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 32	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 34	2	16.60	8.30
FIGURE 33 and FIGURE 38	2	14.10	7.05
FIGURE 33 and FIGURE 40	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		83.15	48.55
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 10:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75

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Group 10:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 28	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 31	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 34	2	16.60	8.30
FIGURE 33 and FIGURE 38	2	14.10	7.05
FIGURE 33 and FIGURE 40	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		83.15	48.55
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 11:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 18 and FIGURE 19	1	0.65	0.65
FIGURE 18 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)

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Group 11:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 31	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 34	2	16.60	8.30
FIGURE 33 and FIGURE 38	2	14.10	7.05
FIGURE 33 and FIGURE 40	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		83.15	48.55
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 12:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 33 and FIGURE 35	2	9.70	4.85
FIGURE 33 and FIGURE 38	2	14.10	7.05
FIGURE 33 and FIGURE 41	2	10.00	5.00
FIGURE 48	1	2.80	2.80

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Group 12:

Task	Number of Persons	Task Hours	Elapsed Hours
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		72.30	42.25
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 13:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(a)	0.25(a)
FIGURE 31	1	1.25(b)	1.25(b)
FIGURE 33 and FIGURE 36	2	9.90	4.95
FIGURE 33 and FIGURE 39	2	8.40	4.20
FIGURE 33 and FIGURE 42	1	2.45	2.45
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		48.00	30.20
(a) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

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Group 14:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(a)	0.25(a)
FIGURE 32	1	1.25(b)	1.25(b)
FIGURE 33 and FIGURE 36	2	9.90	4.95
FIGURE 33 and FIGURE 39	2	8.40	4.20
FIGURE 33 and FIGURE 42	1	2.45	2.45
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		48.00	30.20
(a) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 15:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 29	1	0.25	0.25

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Group 15:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 30	1	0.25(a)	0.25(a)
FIGURE 33 and FIGURE 37	2	2.90	2.90
FIGURE 33 and FIGURE 39	2	8.40	4.20
FIGURE 33 and FIGURE 43	1	0.20	0.20
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		37.00	24.15
(a) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 17:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 31	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 44	2	13.80	6.90
FIGURE 33 and FIGURE 12	2	12.60	6.30
FIGURE 33 and FIGURE 45	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25

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Group 17:

Task	Number of Persons	Task Hours	Elapsed Hours
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		78.85	46.40
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 18:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 27	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 32	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 44	2	13.80	6.90
FIGURE 33 and FIGURE 12	2	12.60	6.30
FIGURE 33 and FIGURE 45	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		78.85	46.40

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Group 18:

Task	Number of Persons	Task Hours	Elapsed Hours
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 19:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(a)	0.25(a)
FIGURE 33 and FIGURE 37	1	2.90	2.90
FIGURE 33 and FIGURE 46	2	10.20	5.10
FIGURE 33 and FIGURE 47	1	3.10	3.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		41.70	27.95
(a) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 20:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)

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Group 20:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 28	1	0.50	0.50
FIGURE 29	1	0.25	0.25
FIGURE 30	1	0.25(b)	0.25(b)
FIGURE 31	1	1.25(c)	1.25(c)
FIGURE 33 and FIGURE 44	2	13.80	6.90
FIGURE 33 and FIGURE 12	2	12.60	6.30
FIGURE 33 and FIGURE 45	2	12.20	6.10
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		78.85	46.40
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(b) Estimate assumes that the P5-16 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			
(c) Estimate assumes that the P5-10 panel is replaced with a new part. Refer to a vendor service bulletin for instructions and time required to rework panels.			

Group 21:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.50	1.25
FIGURE 3	1	0.50	0.50
FIGURE 4	1	0.25	0.25
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90

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Group 21:

Task	Number of Persons	Task Hours	Elapsed Hours
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 33 and FIGURE 37	2	2.90	2.90
FIGURE 33 and FIGURE 39	2	8.40	4.20
FIGURE 33 and FIGURE 43	1	0.20	0.20
FIGURE 48	1	2.80	2.80
Close Access	2	2.50	1.25
Test	2	6.50	3.25
TOTAL FOR EACH AIRPLANE		36.50	23.65

Group 22:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 49	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.00	38.85
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

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Group 23:

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	2	2.00	1.00
FIGURE 1	1	2.25 (a)	2.25 (a)
FIGURE 2	1	2.25 (a)	2.25 (a)
FIGURE 4	1	0.25	0.25
FIGURE 5 and FIGURE 6	2	4.50	2.25
FIGURE 5 and FIGURE 8	2	4.50	2.25
FIGURE 9 and FIGURE 11	2	6.90	3.45
FIGURE 9 and FIGURE 12	2	12.60	6.30
FIGURE 9 and FIGURE 15	2	10.00	5.00
FIGURE 16 and FIGURE 17	1	0.65	0.65
FIGURE 16 and FIGURE 20	1	1.75	1.75
FIGURE 21 and FIGURE 22	2	5.80	2.90
FIGURE 23 and FIGURE 24	1	1.75	1.75
FIGURE 50	1	2.80	2.80
Close Access	2	2.00	1.00
Test	2	6.00	3.00
TOTAL FOR EACH AIRPLANE		66.00	38.85
(a) Estimate assumes that the P1-3 and P3-1 panels are replaced with new parts. Refer to a vendor service bulletin for instructions and time required to rework panels.			

The time to change the P1-3 instrument panel as given in Service Bulletins BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02, BAE Systems SB 233A2221-31-03 and BAE Systems SB 233A2221-31-05 , and the P3-1 instrument panel as given in Service Bulletins BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02, BAE Systems SB 233A2222-31-03 and BAE Systems SB 233A2222-31-05 is not included.

Group 21, Configuration 2:
The time to replace the P5-16 panel as given in Boeing Service Bulletin 737-21-1171 is not included.

The time to change the P5-16 and P5-10 panels as given in Service Bulletins BAE Systems SB 233A3213-21-01 and BAE Systems SB 69-37319-31-05 is not included.

H. Weight and Balance Changes

Airplane	Change in Weight (Pounds)	Change in Moment (Pound-Inches)
737-600	+2.25	+518
737-700	+2.25	+396

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Airplane	Change in Weight (Pounds)	Change in Moment (Pound-Inches)
737-800	+2.25	+131
737-900	+2.25	-9

I. Electrical Load Data

Not changed.

J. References

1. Existing Data

   a. Engineering Change Memo PRR 38275-118S

   b. Boeing Service Bulletin 737-21-1165, 737-21-1171

   c. Boeing Service Related Problem (SRP) 737-SRP-31-0042

   d. Overhaul Manual (OHM) 31-10-01

   e. Standard Overhaul Practices Manual (SOPM) 20-30-03, 20-50-10

   f. Standard Wiring Practices Manual (SWPM) 20-00-13, 20-00-13, 20-10-11, 20-10-12, 20-10-14, 20-10-18, 20-10-19, 20-30-11, 20-30-11, 20-30-12, 20-30-16, 20-60-08, 20-60-09, 20-61-11, 20-61-19, 20-71-12, 20-74-11, 20-90-15

   g. 737-600/700/800/900 Aircraft Maintenance Manual (AMM) 21-33-00, 21-33-01, 21-33-02, 21-33-04, 22-11-31, 24-22-00, 29-11-00, 31-51-00, 31-62-00, 32-41-54, 52-40-00

   h. 737-600/700/800/900 Wiring Diagram Manual (WDM) 21-33-11, 24-61-24, 31-53-11, 33-12-12 , 33-18-36

   i. BAE Systems Service Bulletin 233A2221-31-01, 233A2221-31-02, 233A2221-31-03, 233A2221-31-05, 233A2222-31-01, 233A2222-31-02, 233A2222-31-03, 233A2222-31-05, 233A3213-21-01, 69-37319-31-05

      NOTE: The supplier was told to send copies of the service bulletin(s) to each operator.

   j. Fleet Team Digest (FTD) 737NG-FTD-31-06004

   k. 737 Structural Repair Manual (SRM) Chapter 51

2. Data supplied with this Service Bulletin

   None.

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3. Installation Drawings Used in the Preparation of this Service Bulletin

Drawing Number	Title
287A4103	Wire Provision Instl - Main Instrument Panel - Flight Deck
288A2011	Wire Bundle Instl - E1-1 Shelf
288A4101	Wire Bundle Instl - Left, Right Cab and Upper Cab Floor
288A4120	Wire Bundle Instl - Left, Right Lower Sidewall (STA 178 - 259.5)
288A4121	Wire Bundle Instl - Right E/E Bay Sidewall
288A4130	Wire Bundle Instl - Forward Wheel Well
288A4131	Wire Bundle Instl - Left E/E Bay Sidewall
288A4140	Wire Bundle Instl - Flight Deck Floor Beams
288A4151	Wire Bundle Instl - P1, P2, P3, P9 and Light Shield Integration Area
288A4154	Wire Bundle Instl - P6 Load Control Circuit Breaker Integration Area
288A4156	Wire Bundle Instl - Forward Overhead Instrument Panel
288A4161	Wire Bundle Instl - 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

1. Publications:

Publication	Chapter-Section
737 FAA Approved Airplane Flight Manual	Sections 2 and 3
737 Flight Crew Operations Manual	Ch.1 Section 20, Ch.15 Section 10, Ch.15 Section 20 and NNC
737 Maintenance Manual	21-33, 31-51
737 Wiring Diagram Manual	21-33, 24-61, 31-53, 33-18
737 Illustrated Parts Catalog	21-33, 21-51, 31-11
737 System Schematic Manual	21-33, 31-53
Component Maintenance Manual	31-53
737 Dispatch Deviation Guide	Section 2, chapter 21 and 31
737 Minimum Equipment List	Section 2, chapter 21 and 31

2. Damage Tolerance Based Structural Inspections:

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Boeing has evaluated the repairs and/or changes in this service bulletin for effects on Fatigue Critical Structure (FCS) and for changes to Damage Tolerance Inspections (DTI) required in the Maintenance Program. This service bulletin does not affect FCS, therefore DTIs are not necessary.

L. Interchangeability and Intermixability of Parts

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

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2. MATERIAL INFORMATION

A. Material - Price and Availability

Boeing can supply the kits shown in Paragraph 2.C., Parts Necessary for Each Airplane . Operators are encouraged to share schedule requirements with Boeing for incorporation of the service bulletin. The kits are subject to the terms and conditions of the Boeing standard purchase order acknowledgment. Prices are in United States Dollars. Terms: Net 30 days.

Reference this service bulletin and submit your purchase order by one of these methods:

1. Order on-line via ATA Spec 2000 or The Boeing PART Page

2. Fax to (206) 662-7145

Group 1-4, 22-23:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-61 (a) (b)	Top Kit - Cabin Altitude Warning Lights Installation	-	-
(a) The 002A0006-61 top kit is no longer available and has been replaced by the 002A0006-106 top kit.			
(b) The operators who have purchased the 002A0006-61 top kit, should order the supplemental kit 280A3161-102 as necessary.			

Group 1-4, 22-23:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-106 (a)	Top Kit - Cabin Altitude Warning Lights Installation	125	3,238.00
(a) The 002A0006-61 plus the 280A3161-102 are equivalent to the 002A0006-106.			

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Group 7:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-65 (a) (b)	Top Kit - Cabin Altitude Warning Lights Installation	-	-
(a) The 002A0006-65 top kit is no longer available and has been replaced by the 002A0006-108 top kit.			
(b) The operators who have purchased the 002A0006-65 top kit, should order the supplemental kit 280A3161-102 as necessary.			

Group 7:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-108 (a)	Top Kit - Cabin Altitude Warning Lights Installation	135	2,177.00
(a) The 002A0006-65 plus the 280A3161-102 are equivalent to the 002A0006-108.			

Group 5:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-75 (a) (b)	Top Kit - Cabin Altitude Warning Lights Installation	-	-
(a) The 002A0006-75 top kit is no longer available and has been replaced by the 002A0006-109 top kit.			
(b) The operators who have purchased the 002A0006-75 top kit, should order the supplemental kit 280A3161-102 as necessary.			

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Group 5:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-109 (a)	Top Kit - Cabin Altitude Warning Lights Installation	125	3,238.00
(a) The 002A0006-75 plus the 280A3161-102 are equivalent to the 002A0006-109.			

Group 6:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-76	Top Kit - Cabin Altitude Warning Lights Installation	139	3,237.00

Group 8-9:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-62 (a) (b)	Top Kit - Cabin Altitude Warning Lights Installation	-	-
(a) The 002A0006-62 top kit is no longer available and has been replaced by the 002A0006-107 top kit.			
(b) The operators who have purchased the 002A0006-62 top kit, should order the supplemental kit 280A3161-1.			

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Group 8-9:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-107 (a)	Top Kit - Cabin Altitude Warning Lights Installation	252	5,238.00
(a) The 002A0006-62 plus the 280A3161-1 are equivalent to the 002A0006-107.			

Group 10, 20:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-78	Top Kit - Cabin Altitude Warning Lights Installation	252	5,292.00

Group 11:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-63	Top Kit - Cabin Altitude Warning Lights Installation	252	5,283.00

Group 16-18:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-77	Top Kit - Cabin Altitude Warning Lights Installation	252	5,238.00

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Group 12:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-64	Top Kit - Cabin Altitude Warning Lights Installation	125	3,409.00

Group 13-14:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-66	Top Kit - Cabin Altitude Warning Lights Installation	252	4,484.00

Group 15, 21:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-67	Top Kit - Cabin Altitude Warning Lights Installation	125	2,562.00

Group 19:
REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
002A0006-82	Top Kit - Cabin Altitude Warning Lights Installation	139	3,022.00

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REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
280A3161-102 (a)	Assy - W2135, W2218, W2589	92	43.00
(a) If an operator purchased the top kit 002A0006-61 or 002A0006-65, this supplemental wire kit should be added. If an operator previously accomplished the service bulletin, this supplemental kit is not necessary.			

REFER TO THE BOEING PART PAGE ON MYBOEINGFLEET.COM OR CONTACT FIRST RESPONDER AT FR@BOEING.COM FOR THE LATEST REORDER LEAD TIME (ROLT) AND PRICE INFORMATION

Kit Number	Name	ROLT as of the Revision 02 date of this Service Bulletin (Calendar Days)	Unit Price as of the Revision 2 date of this Service Bulletin (US Dollars)
280A3161-1 (a)	Wire Kit - Cabin Alt Warning Ligts (Suppl)	103	188.00
(a) If an operator purchased the top kit 002A0006-62, this supplemental wire kit should be added.			

B. Industry Support Information

Group 1-6, 8-23:
Boeing warranty remedies are not available for the configuration changes given in this service bulletin.

Group 7:
Boeing warranty remedies are available for 737 airplanes in warranty as of February 28, 2008. For task hour and material reimbursement for airplanes in warranty as of that date, send a warranty claim to Boeing Commercial Airplanes Group - Warranties.

Group 7:
NOTE: The Group 7 airplanes were originally provisioned with warning lights that did not meet the Boeing design specification which require that the light lenses are not interchangeable. The Group 7 modifications in this Service Bulletin will change the configuration to meet Boeing design requirements.

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.

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Kit 002A0006						
New Part Number	QTY				Name	Notes
	-61	-65	-75	-76		
002A0006-61	-	.	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(a) (e)
002A0006-65	.	-	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(b) (f)
002A0006-75	.	.	-	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(c) (g)
002A0006-76	.	.	.	-	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(d)
233A5001-38	1	1	1	1	CIRCUIT BREAKER INSTL - KITS	
002A0006-79	1	1	1	1	SUB KIT - W0054 WIRE BUNDLE IN-STALLATION	
280A2001-1	1	1	1	1	LACING TAPE	
280A3143-101	1	.	1	1	Wire Bundle W0001 Assembly	
280A3143-102	1	.	1	1	Wire Bundle W0003 Assembly	
280A3143-103	1	.	1	1	Wire Bundle W2508 Assembly	
280A3143-104	1	.	1	1	Wire Bundle W5156 Assembly	
280A3143-105	1	.	1	1	Wire Bundle W5514 Assembly	
280A3143-106	1	1	1	.	Wire Bundle W0040 Assembly	
280A3143-107	1	1	1	1	Wire Bundle W0054 Assembly	
280A3143-108	1	1	1	1	Wire Bundle W0111 Assembly	
280A3143-109	1	1	1	1	Wire Bundle W2103 Assembly	
280A3143-110	1	1	1	1	Wire Bundle W5156 Assembly	
280A3143-111	.	1	.	.	Wire Bundle W5514 Assembly	
280A3143-114	.	.	.	1	Wire Bundle W0040 Assembly	
280A3143-115	1	.	1	1	Wire Bundle W5156 Assembly	
280A3143-116	.	1	.	.	Wire Bundle W5156 Assembly	
280A3143-117	1	1	1	1	Wire Bundle W2103 Assembly	
280A3143-118	1	1	1	1	Wire Bundle W5156 Assembly	
280A3161-102	-	-	-	1	Assy - W2135, W2218, W2589	
(a) For Group 1-4 airplanes						
(b) For Group 7 airplanes						
(c) For Group 5 airplanes						
(d) For Group 6 airplanes						

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Kit 002A0006						
New Part Number	QTY				Name	Notes
	-61	-65	-75	-76		
(e) The 002A0006-61 top kit is no longer available and has been replaced by the 002A0006-106 top kit.						
(f) The 002A0006-65 top kit is no longer available and has been replaced by the 002A0006-108 top kit.						
(g) The 002A0006-75 top kit is no longer available and has been replaced by the 002A0006-109 top kit.						

Kit 233A5001			
New Part Number	QTY	Name	Notes
	-38		
233A5001-38	-	CIRCUIT BREAKER INSTL - KITS	
BAC27DCC3695	1	DECAL, P6-2	
BACC18AD2	1	CIRCUIT BREAKER	
BACT19J4	2	TAPE, ID	

Kit 280A2001			
New Part Number	QTY	Name	Notes
	-1		
280A2001-1	-	LACING TAPE	(a)
(a) BMS 13-54 lacing tape, color white, length 18000 inches.			

Kit 002A0006			
New Part Number	QTY	Name	Notes
	-79		
002A0006-79	-	SUB KIT - W0054 WIRE BUNDLE INSTALLATION	
92A10346	15	GROMMET	
CR4H	15	CONNECTOR RING	
002A0006-80	1	SLEEVE	(a) (b)
(a) TFE-2X, Grade D, Class 1A, Perforated, thin wall, color light blue, diameter 0.25 inch, length 72 inches.			
(b) Excess sleeve has been provided. The sleeve will be applied in two pieces.			

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Kit 280A3143								
New Part Number	QTY						Name	Notes
	-101	-102	-103	-104	-105	-106		
280A3143-101	-	.	.	.	.	.	Wire Bundle W0001 Assembly	
280A3143-102	.	-	.	.	.	.	Wire Bundle W0003 Assembly	
280A3143-103	.	.	-	.	.	.	Wire Bundle W2508 Assembly	
280A3143-104	.	.	.	-	.	.	Wire Bundle W5156 Assembly	
280A3143-105	.	.	.	.	-	.	Wire Bundle W5514 Assembly	
280A3143-106	.	.	.	.	.	-	Wire Bundle W0040 Assembly	
-	1	.	.	.	.	.	Wire, Identified as W0001-0060-22, Length 220 inches	(a) (d)
-	1	.	.	.	.	.	Wire, Identified as W0001-0062-22, Length 220 inches	(a) (d)
280A3143-10101	1	.	.	.	.	.	ID Tape - Connector "D03999"	
-	.	1	.	.	.	.	Wire, Identified as W0003-0070-22, Length 220 inches	(a) (d)
-	.	1	.	.	.	.	Wire, Identified as W0003-0072-22, Length 220 inches	(a) (d)
280A3143-10201	.	1	.	.	.	.	ID Tape - Connector "D00895"	
-	.	.	1	.	.	.	Wire, Identified as W2508-6005-22, Length 200 inches	(a) (d)
-	.	.	1	.	.	.	Wire, Identified as W2508-6018-22, Length 500 inches	(a) (d)
280A3143-10301	.	.	1	.	.	.	ID Tape - Terminal Block Module "R01044"	
280A3143-10302	.	.	1	.	.	.	Splice ID "SP575"	
280A3143-10303	.	.	1	.	.	.	Splice ID "SP577"	

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Kit 280A3143								
New Part Number	QTY						Name	Notes
	-101	-102	-103	-104	-105	-106		
-	.	.	.	1	.	.	Wire, Identified as W5156-0402-22, Length 200 inches	(a) (d)
-	.	.	.	1	.	.	Wire, Identified as W5156-0499-22, Length 200 inches	(b) (d)
-	.	.	.	1	.	.	Wire, Identified as W5156-0403-22, Length 140 inches	(b) (d)
280A3143-10401	.	.	.	1	.	.	Splice ID "SP573"	
-	.	.	.	.	1	.	Wire, Identified as W5514-5601-22, Length 300 inches	(b) (d)
-	.	.	.	.	1	.	Wire, Identified as W5514-5602-22, Length 450 inches	(a) (d)
-	.	.	.	.	1	.	Wire, Identified as W5514-5603-22, Length 300 inches	(a) (d)
-	.	.	.	.	.	1	Wire, Identified as W0040-6497-14, Length 30 inches	(c) (d)
280A3143-10601	.	.	.	.	.	1	Sleeve - Zeus, TFE-2X Std Wall Heat Shrinkable, 0.313 inner diameter, Length 30 inches	
BACC10KD16	1	.	.	.	.	.	Backshell	
BACC47CN1S	4	4	.	.	.	.	Contact, Pin	(e)
BACC47CP1S	4	4	4	6	4	.	Contact, Socket	(e)
BACC63CB16-24S7	1	.	.	.	.	.	Connector, Electrical, Plug, Straight, Bayonet Coupling, Vibration Resistant	
BACT12AC53	.	.	.	.	.	3	Terminal, Lug	(e)
D-436-59	.	.	4	2	.	.	Splice - Sealing Sleeve	(e)
MS27488-20	20	.	.	10	.	.	Seal Plug	(e)
S280W555-104	.	.	1	.	.	.	Terminal Module	
S280W555-751	.	.	1	.	.	.	Terminal Module	

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Kit 280A3143								
New Part Number	QTY						Name	Notes
	-101	-102	-103	-104	-105	-106		
S280W555-920	.	.	8	.	4	.	Contact, Pin, Size 20	(e)
(a) Make from BMS 13-48, Type 10, Class 1, AWG 22.								
(b) Make from BMS 13-58, Type 1, Class 1, AWG 22.								
(c) Make from BMS 13-60, Type 7, Class 1, AWG 14.								
(d) Refer to SWPM 20-00-13 for alternative wire types.								
(e) There are more parts than are necessary.								

Kit 280A3143								
New Part Number	QTY						Name	Notes
	-107	-108	-109	-110	-111	-114		
280A3143-107	-	.	.	.	.	.	Wire Bundle W0054 Assembly	
280A3143-108	.	-	.	.	.	.	Wire Bundle W0111 Assembly	
280A3143-109	.	.	-	.	.	.	Wire Bundle W2103 Assembly	
280A3143-110	.	.	.	-	.	.	Wire Bundle W5156 Assembly	
280A3143-111	.	.	.	.	-	.	Wire Bundle W5514 Assembly	
280A3143-114	.	.	.	.	.	-	Wire Bundle W0040 Assembly	
-	1	.	.	.	.	.	Wire, Identified as W0054-0001-22, Length 162 inches	(a) (d)
-	.	1	.	.	.	.	Wire, Identified as W0111-0884-22, Length 66 inches	(a) (d)
-	.	1	.	.	.	.	Wire, Identified as W0111-0885-22, Length 66 inches	(a) (d)
-	.	1	.	.	.	.	Wire, Identified as W0111-0886-22, Length 66 inches	(a) (d)
-	.	1	.	.	.	.	Wire, Identified as W0111-0887-22, Length 80 inches	(a) (d)

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Kit 280A3143								
New Part Number	QTY						Name	Notes
	-107	-108	-109	-110	-111	-114		
-	.	1	.	.	.	.	Wire, Identified as W0111-0888-20, Length 66 inches	(b) (d)
-	.	1	.	.	.	.	Wire, Identified as W0111-0889-20, Length 66 inches	(b) (d)
-	.	.	1	.	.	.	Wire, Identified as W2103-0043-22, Length 160 inches	(a) (d)
-	.	.	.	1	.	.	Wire, Identified as W5156-0695-22, Length 139 inches	(a) (d)
-	.	.	.	1	.	.	Wire, Identified as W5156-0696-22, Length 139 inches	(a) (d)
-	.	.	.	1	.	.	Wire, Identified as W5156-0697-22, Length 321 inches	(a) (d)
280A3143-11001	.	.	.	1	.	.	ID Tape - Terminal Block Module "R01999"	
280A3143-11002	.	.	.	1	.	.	ID Sleeve "SP795"	
280A3143-11003	.	.	.	1	.	.	ID Sleeve "SP797"	
280A3143-11004	.	.	.	1	.	.	ID Sleeve "SM5"	
-	.	.	.	.	1	.	Wire, Identified as W5514-5587-22, Length 143 inches	(a) (d)
-	.	.	.	.	1	.	Wire, Identified as W5514-5588-22, Length 28 inches	(a) (d)
-	.	.	.	.	.	1	Wire, Identified as W0040-6499-14, Length 42 inches	(c) (d)
280A3143-11402	.	.	.	.	.	1	Sleeve - Zeus, TFE-2X Std Wall Heat Shrink-able, 0.313 inner diame-ter, Length 42 inches	
445591-1	.	7	.	.	.	.	Contact	(e)
BACC47CN1S	.	.	.	2	2	.	Contact, Pin	(e)
BACC47CN1SB	.	.	2	.	.	.	Contact, Pin	(e)

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Kit 280A3143								
New Part Number	**QTY**						**Name**	**Notes**
	-107	**-108**	**-109**	**-110**	**-111**	**-114**		
BACC47CP1S	2	.	.	.	3	.	Contact, Socket	(e)
BACT12AC3	.	.	.	.	2	.	Terminal, Lug	
BACT12AC49	2	.	.	.	.	.	Terminal, Lug	
BACT12AC53	.	.	.	.	.	3	Terminal, Lug	
CTA-0165	.	4	2	.	.	.	Contact, Socket, Size 20	
CTA-0166	.	2	.	4	.	.	Contact, Pin, Size 20	(e)
D-436-37	.	.	.	4	.	.	Splice	
S280W555-104	.	.	.	1	.	.	Terminal Module	
S280W555-751	.	.	.	1	.	.	Terminal Module	
S280W555-920	.	3	.	2	.	.	Contact, Pin, Size 20	(e)
(a) Make from BMS 13-58, Type 1, Class 1, AWG 22.								
(b) Make from BMS 13-58, Type 1, Class 1, AWG 20.								
(c) Make from BMS 13-60, Type 1, Class 7, AWG 14.								
(d) Refer to SWPM 20-00-13 for alternative wire types.								
(e) There are more parts than are necessary.								

Kit 280A3143						
New Part Number	**QTY**				**Name**	**Notes**
	-115	**-116**	**-117**	**-118**		
280A3143-115	-	.	.	.	Wire Bundle W5156 Assembly	(a) (b)
280A3143-116	.	-	.	.	Wire Bundle W5156 Assembly	(a) (b)
280A3143-117	.	.	-	.	Wire Bundle W2103 Assembly	(a) (b)
280A3143-118	.	.	.	-	Wire Bundle W5156 Assembly	(a) (b)
-	1	.	.	.	Wire, Identified as W5156-0698-22, Length 200 inches	
-	.	1	.	.	Wire, Identified as W5156-0699-22, Length 337 inches	
-	.	.	.	1	Wire, Identified as W5156-0695-22, Length 240 inches	
-	.	.	.	1	Wire, Identified as W5156-0696-22, Length 240 inches	
BACC47CN1S	.	2	.	.	Contact, Pin	(c)
S280W555-920	2	2	.	.	Contact, Pin, Size 20	(c)

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Kit 280A3143						
New Part Number	QTY				Name	Notes
	-115	-116	-117	-118		
CTA-0166	.	.	.	3	Contact, Pin	(c)
D-436-37	.	.	.	3	Splice	(c)
BACT63D2	.	.	2	.	Sleeve, Heat Shrink	(c)
(a) Make from BMS 13-58, Type 1, Class 1, AWG 22						
(b) Refer to SWPM 20-00-13 for alternative wire types.						
(c) There are more parts than are necessary.						

Kit 002A0006								
New Part Number	QTY						Name	Notes
	-62	-63	-64	-66	-67	-77		
002A0006-62	-	.	.	.	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(a) (g)
002A0006-63	.	-	.	.	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(b)
002A0006-64	.	.	-	.	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(c)
002A0006-66	.	.	.	-	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(d)
002A0006-67	.	.	.	.	-	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(e)
002A0006-77	.	.	.	.	.	-	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(f)
002A0006-79	1	1	1	1	1	1	SUB KIT - W0054 WIRE BUNDLE INSTALLATION	
216A5001-401	1	1	.	1	.	1	SUB RETROFIT KIT	
233A5001-38	1	1	1	1	1	1	CIRCUIT BREAKER INSTL - KITS	
280A2001-1	1	1	1	1	1	1	LACING TAPE	
280A3143-101	1	1	1	.	.	1	Assy - W0001	
280A3143-102	1	1	1	.	.	1	Assy - W0003	

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Kit 002A0006								
New Part Number	QTY						Name	Notes
	-62	-63	-64	-66	-67	-77		
280A3143-103	1	.	.	1	1	.	Assy - W2508	
280A3143-104	1	1	1	.	.	1	Assy - W5156	
280A3143-105	1	1	1	.	.	1	Assy - W5514	
280A3143-106	1	.	1	1	1	1	Assy - W0040	
280A3143-107	1	1	1	1	1	1	Assy - W0054	
280A3143-108	1	1	1	1	1	1	Assy - W0111	
280A3143-109	1	1	1	1	1	1	Assy - W2103	
280A3143-110	1	1	1	1	1	1	Assy - W5156	
280A3143-111	1	1	.	1	1	1	Assy - W5514	
280A3143-112	1	1	1	1	1	1	Assy - W2508	
280A3143-113	1	1	.	1	.	1	Assy - W2508	
280A3143-114	.	1	.	.	.	.	Assy - W0040	
280A3143-115	1	1	1	.	.	1	Assy - W5156	
280A3143-116	.	.	.	1	1	.	Assy - W5156	
280A3143-117	1	1	1	1	1	1	Assy - W2103	
280A3143-118	1	1	1	1	1	1	Assy - W5156	
280A3161-101	-	1	.	1	.	1	Assy - W2508	
280A3161-102	-	.	1	1	1	1	Assy - W2135, W2218, W2589	
280A3161-103	-	1	.	1	.	1	Assy - W5514	
(a) For Group 8 and 9 airplanes								
(b) For Group 11 airplanes								
(c) For Group 12 airplanes								
(d) For Group 13 and 14 airplanes								
(e) For Group 15 and 21 airplanes								
(f) For Group 16, 17 and 18 airplanes								
(g) The 002A0006-62 top kit is no longer available and has been replaced by the 002A0006-107 top kit.								

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Kit 002A0006				
New Part Number	**QTY**		**Name**	**Notes**
	-78	**-82**		
002A0006-78	-	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(a)
002A0006-82	.	-	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION	(b)
002A0006-79	1	1	SUB KIT - W0054 WIRE BUNDLE INSTALLATION	
216A5001-403	1	.	SUB RETROFIT KIT	
233A5001-38	1	1	CIRCUIT BREAKER INSTL - KITS	
280A2001-1	1	1	LACING TAPE	
280A3143-101	1	.	Assy - W0001	
280A3143-102	1	.	Assy - W0003	
280A3143-103	1	1	Assy - W2508	
280A3143-104	1	1	Assy - W5156	
280A3143-105	1	1	Assy - W5514	
280A3143-106	1	1	Assy - W0040	
280A3143-107	1	1	Assy - W0054	
280A3143-108	1	1	Assy - W0111	
280A3143-109	1	1	Assy - W2103	
280A3143-110	1	1	Assy - W5156	
280A3143-111	1	1	Assy - W5514	
280A3143-112	1	1	Assy - W2508	
280A3143-113	1	.	Assy - W2508	
280A3143-115	1	1	Assy - W5156	
280A3143-117	1	1	Assy - W2103	
280A3143-118	1	1	Assy - W5156	
280A3161-101	1	.	Assy - W2508	
280A3161-102	1	1	Assy - W2135, W2218, W2589	
280A3161-103	1	.	Assy - W5514	
(a) For Group 10 and 20 airplanes				
(b) For Group 19 airplanes				

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Kit 216A5001				
New Part Number	QTY		Name	Notes
	-401	-403		
216A5001-401	-	.	SUB RETROFIT KIT	
216A5001-403	.	-	SUB RETROFIT KIT	
214C40-1-110	.	1	ALTITUDE PRESSURE SWITCH	
214C40-1-115	1	.	ALTITUDE PRESSURE SWITCH	
BAC27DAC107	.	1	MARKER	
BAC27DAC157	1	.	MARKER CABIN HIGH ALTITUDE WARNING SWITCH	
BACN10YR3CM	2	2	NUT	
BACS12GU3K11	2	2	SCREW	
NAS1149D0316H	4	4	WASHER	

Kit 280A3143				
New Part Number	QTY		Name	Notes
	-112	-113		
280A3143-112	-	.	Assy - W2508	
-	1	.	Wire, Identified as W2508-0032-22, Length 298 inches	(a) (c)
-	1	.	Wire, Identified as W2508-5697-22, Length 298 inches	(a) (c)
280A3143-113	.	-	Assy - W2508	
-	.	1	Wire, Identified as W2508-6035-20, Length 72 inches	(b) (c)
-	.	1	Wire, Identified as W2508-6036-20, Length 72 inches	(b) (c)
-	.	1	Wire, Identified as W2508-6037-20, Length 72 inches	(b) (c)
-	.	1	Wire, Identified as W2508-6038-20, Length 72 inches	(b) (c)
280A3143-11201	1	.	ASSY -112 I.D. SLEEVE "SP799"	
280A3143-112W	1	.	Wire List for W5514	
280A3143-11301	.	1	Assy -113 I.D. SLEEVE "SM2"	
280A3143-113W	.	1	Wire List for W2508	
BACC47CP1S	3	5	CONTACT, SOCKET	(d)
D-436-37	2	1	SPLICE	

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Kit 280A3143				
New Part Number	QTY		Name	Notes
	-112	-113		
S280W555-920	.	3	CONTACT, PIN, SIZE 20	
(a) Make from BMS 13-58, Type 1, Class 1, AWG 22.				
(b) Make from BMS 13-58, Type 1, Class 1, AWG 20.				
(c) Refer to SWPM 20-00-13 for alternative wire types.				
(d) There are more parts than are necessary				

Kit 280A3161				
New Part Number	QTY	Name	Existing Part Number	Notes
	-1			
280A3161-1	-	Wire Kit - Cabin Alt Warning Ligts (Suppl)		(a)
280A3161-101	1	ASSY - W2508		
280A3161-102	1	ASSY - W2135, W2218, W2589		
280A3161-103	1	ASSY - W5514		
(a) The 002A0006-62 plus the 280A3161-1 are equivalent to the 002A0006-107.				

Kit 280A3161					
New Part Number	QTY			Name	Notes
	-101	-102	-103		
280A3161-101	-	.	.	ASSY - W2508	
280A3161-102	.	-	.	ASSY - W2135, W2218, W2589	
280A3161-103	.	.	-	ASSY - W5514	
280A3161-101W	1	.	.	WIRE LIST	(a) (b)
280A3161-10201	.	1	.	SLEEVE SPLICE I.D. (SP7001)	
280A3161-10202	.	1	.	SLEEVE SPLICE I.D. (SP7002)	
280A3161-10301	.	.	1	SLEEVE CONNECTOR I.D. (D13174)	
BACC47CP1S	2	.	.	CONTACT, SOCKET	

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Kit 280A3161					
New Part Number	QTY			Name	Notes
	-101	-102	-103		
BACC63BP10C5S6	.	.	1	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, THREADED COUPLING, SELF-LOCKING	
NAS1387-6	.	2	.	SPLICE	
S280W555-920	2	.	.	CONTACT, PIN, SIZE 20	
(a) Wire, Identified as W2508-5696-20, Length 144 inches					
(b) Make from BMS 13-48, Type 10, Class 1, AWG 20.					

Kit 002A0006							
New Part Number	QTY				Name	Existing Part Number	Notes
	-106	-107	-108	-109			
002A0006-106	-	.	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION		(a)
002A0006-107	.	-	.	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION		(b)
002A0006-108	.	.	-	.	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION		(c)
002A0006-109	.	.	.	-	TOP KIT - CABIN ALTITUDE WARNING LIGHTS INSTALLATION		(d)
002A0006-79	1	1	1	1	SUB KIT - W0054 WIRE BUNDLE INSTALLATION		
216A5001-401	.	1	.	.	SUB RETROFIT KIT		
233A5001-38	1	1	1	1	CIRCUIT BREAKER INSTL - KITS		
280A2001-1	1	1	1	1	LACING TAPE		

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Kit 002A0006							
New Part Number	**QTY**				**Name**	**Existing Part Number**	**Notes**
	-106	**-107**	**-108**	**-109**			
280A3143-101	1	1	.	1	Assy - W0001		
280A3143-102	1	1	.	1	Assy - W0003		
280A3143-103	1	1	.	1	Assy - W2508		
280A3143-104	1	1	.	1	Assy - W5156		
280A3143-105	1	1	.	1	Assy - W5514		
280A3143-106	1	1	1	1	Assy - W0040		
280A3143-107	1	1	1	1	Assy - W0054		
280A3143-108	1	1	1	1	Assy - W0111		
280A3143-109	1	1	1	1	Assy - W2103		
280A3143-110	1	1	1	1	Assy - W5156		
280A3143-111	.	1	1	.	Assy - W5514		
280A3143-112	.	1	.	.	Assy - W2508		
280A3143-113	.	1	.	.	Assy - W2508		
280A3143-115	1	1	.	1	Assy - w5156		
280A3143-116	.	.	1	.	Assy - W5156		
280A3143-117	1	1	1	1	Assy - W2103		
280A3143-118	1	1	1	1	Assy - W5156		
280A3161-101	.	1	.	.	ASSY - W2508		
280A3161-102	1	1	1	1	ASSY - W2135, W2218, W2589		
280A3161-103	.	1	.	.	ASSY - W5514		
(a) The 002A0006-61 plus the 280A3161-102 are equivalent to the 002A0006-106.							
(b) The 002A0006-62 plus the 280A3161-1 are equivalent to the 002A0006-107.							
(c) The 002A0006-65 plus the 280A3161-102 are equivalent to the 002A0006-108.							
(d) The 002A0006-75 plus the 280A3161-102 are equivalent to the 002A0006-109.							

2. Parts and Materials Supplied by the Operator

Part Number / Specification	**QTY**	**Name**	**Notes**
233A2221-()	1	Panel Assembly - CDS Display Control, Left P1-3	(a) (b) (d)
233A2222-()	1	Panel Assembly - CDS Display Control, Right P3-1	(a) (c) (d)

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Part Number / Specification	QTY	Name	Notes
233A3213-4	1	P5-16 Panel Assembly	(d) (g) (i)
69-37319-311	1	P5-10 Panel Assembly	(d) (e) (h)
69-37319-313	1	P5-10 Panel Assembly	(d) (f) (h)
(a) Refer to Appendix for the P1-3 and P3-1 panels part numbers.			
(b) You can get the new part by reworking the existing part as given in BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02, BAE Systems SB 233A2221-31-03 and BAE Systems SB 233A2221-31-05 . Alternatively, operators may procure the P1-3 panel with the CABIN ALT/TAKEOFF CONFIG lights already installed, instead of accomplishing the BAE SBs rework, at the operator's discretion.			
(c) You can get the new part by reworking the existing part as given in BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02, BAE Systems SB 233A2222-31-03 and BAE Systems SB 233A2222-31-05 . Alternatively, operators may procure the P3-1 panel with the CABIN ALT/TAKEOFF CONFIG lights already installed, instead of accomplishing the BAE SBs rework, at the operator's discretion.			
(d) BAE Systems Controls Inc. (cage code 89954), 600 Main Street, Johnson City, NY 13790-1806, USA.			
(e) For Group 8, 10-11, 13, 16-17, 20.			
(f) For Group 9, 14, 18.			
(g) You can get the new part by reworking the existing part as given in BAE Systems SB 233A3213-21-01. Refer to Appendix for the P5-16 panel part numbers. The panel part number 69-37334-12 cannot be modified and should be replaced.			
(h) You can get the new part by reworking the existing part as given in BAE Systems SB 69-37319-31-05. Refer to Appendix for the P5-10 panel part numbers.			
(i) For Group 8-20.			

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.

P1-3 Captain Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	Superseded by Part Number	QTY	New Part Number (After Modification)	Notes
233A2221-4		1	233A2221-24	(a)
233A2221-4		1	233A2221-8	(d) (e)
233A2221-5		1	233A2221-25	(a) (b)
233A2221-5		1	233A2221-9	(d) (e)
233A2221-6		1	233A2221-26	(a) (c)

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P1-3 Captain Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2221-6		1	233A2221-10	(d) (e)
233A2221-7		1	233A2221-27	(a)
233A2221-7		1	233A2221-11	(d) (e)
233A2221-8	233A2221-16	1	233A2221-28	(a)
233A2221-9	233A2221-17	1	233A2221-29	(a)
233A2221-10		1	233A2221-18	(a)
233A2221-11		1	233A2221-19	(a)
233A2221-12		1	233A2221-20	(a)
233A2221-13		1	233A2221-21	(a)
233A2221-14	233A2221-22	1	233A2221-30	(a)
233A2221-15	233A2221-23	1	233A2221-31	(a)
(a) Make the change given in BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02 and BAE Systems SB 233A2221-31-03.				
(b) Part numbers 233A2221-1M655949E, or 233A2221-2, or 233A2221-2M012370F are equivalent to 233A2221-5.				
(c) Part number 233A2221-3M012370F is equivalent to 233A2221-6.				
(d) Make the change given in BAE Systems SB 233A2221-31-05.				
(e) This is an interim part and the additional modification is needed to get to a final configuration.				

P3-1 First Officer Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2222-4		1	233A2222-42	(a)
233A2222-4		1	233A2222-13	(d) (e)
233A2222-5		1	233A2222-43	(a) (b)
233A2222-5		1	233A2222-14	(d) (e)
233A2222-6		1	233A2222-44	(a) (c)
233A2222-6		1	233A2222-15	(d) (e)
233A2222-7		1	233A2222-45	(a)
233A2222-7		1	233A2222-16	(d) (e)
233A2222-10		1	233A2222-46	(a)

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P3-1 First Officer Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2222-10		1	233A2222-17	(d) (e)
233A2222-11		1	233A2222-47	(a)
233A2222-11		1	233A2222-18	(d) (e)
233A2222-12		1	233A2222-48	(a)
233A2222-12		1	233A2222-19	(d) (e)
233A2222-13	233A2222-28	1	233A2222-50	(a)
233A2222-14	233A2222-29	1	233A2222-51	(a)
233A2222-15	233A2222-30	1	233A2222-52	(a)
233A2222-16		1	233A2222-31	(a)
233A2222-17	233A2222-32	1	233A2222-53	(a)
233A2222-18		1	233A2222-33	(a)
233A2222-19		1	233A2222-34	(a)
233A2222-20		1	233A2222-35	(a)
233A2222-21		1	233A2222-36	(a)
233A2222-22		1	233A2222-37	(a)
233A2222-23	233A2222-38	1	233A2222-54	(a)
233A2222-24		1	233A2222-39	(a)
233A2222-25	233A2222-40	1	233A2222-55	(a)
233A2222-26		1	233A2222-49	(a)
233A2222-27	233A2222-41	1	233A2222-56	(a)
(a) Make the change given in BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02 and BAE Systems SB 233A2222-31-03.				
(b) Part numbers 233A2222-2M012370F or 233A2222-1 are equivalent to 233A2222-5.				
(c) Part number 233A2222-3M012370F is equivalent to 233A2222-6.				
(d) Make the change given in BAE Systems SB 233A2222-31-05.				
(e) This is an interim part and the additional modification is needed to get to a final configuration.				

P5-16 Cabin Altitude and Rate of Climb Panel			
Original Part Number	**QTY**	**New Part Number (After Modification)**	**Notes**
233A3213-1	1	233A3213-4	(a)

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P5-16 Cabin Altitude and Rate of Climb Panel			
Original Part Number	**QTY**	**New Part Number (After Modification)**	**Notes**
233A3213-2	1	233A3213-4	(a)
69-37334-12	1	233A3213-4	(b)
(a) Make the change given in BAE Systems SB 233A3213-21-01.			
(b) The panel part number 69-37334-12 cannot be modified and should be replaced.			

P5-10 Air Conditioning Panel			
Original Part Number	**QTY**	**New Part Number (After Modification)**	**Notes**
69-37319-308		69-37319-311	(a)
69-37319-312		69-37319-313	(a)
(a) Make the change given in BAE Systems SB 69-37319-31-05.			

4. Parts Removed and Not Replaced

None.

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. The instructions identified in Paragraph 3.B., Work Instructions and the Figure(s) give the recommended sequence of steps.

2. Manual titles are referred to by acronyms. Refer to Paragraph 1.J., References, for definition of the acronyms.

3. Obey all of the warnings and cautions given in the specified manual sections.

4. 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
   – Angular tolerance is plus or minus 2 degrees
   – Hole dimensions for standard solid rivets are in 737 SRM, Chapter 51
   – Torque limits to tighten nuts and bolts are in 737 SRM, Chapter 51

5. Use the approved fastener and process material substitutions in accordance with 737 SRM, Chapter 51.

6. Refer to the SWPM 20-10-11 and SWPM 20-10-12 for the wire installation procedures, and SWPM 20-10-19 for the wire separation requirements, as accepted procedures.

7. If the length of any fastener specified in this service bulletin does not meet the installation standards in SRM Chapter 51, then a fastener of the same specification, or an approved substitute, with a length which meets the installation standards in SRM Chapter 51 may be used.

8. These work instructions refer to procedures included in 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 "in accordance with" are included in the instruction, the procedure in the Boeing document must be used.

9. Refer to Appendix A for the P1-3, P3-1, P5-10 and P5-16 panels part numbers after modification.

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B. WORK INSTRUCTIONS

Group 1-7, 22-23:
Airplanes with the basic configuration of the Cabin Altitude Warning System

1. **Group 1-7, 22-23:**
Remove electrical power from the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

NOTE: Removal and reinstallation of the pilot seats, the outboard raceway covers in the flight compartment, and the E1-1 electronics shelf assembly is necessary to get access to the wiring affected by this service bulletin.

2. **Group 1-6, 22-23:**
In the flight compartment, change the P1-3 panel in accordance with FIGURE 1.

3. **Group 1-6, 22-23:**
In the flight compartment, change the P3-1 panel in accordance with FIGURE 2.

4. **Group 7:**
In the flight compartment, on the P1-3 and P3-1 forward instrument panels, remove INOP markers that cover the Cabin Altitude and Takeoff Config annunciators and replace the "TAKEOFF CONFIG" lights in accordance with FIGURE 3.

5. **Group 1-7, 22-23:**
In the flight compartment, on the P6-2 circuit breaker panel, install the new C01698 circuit breaker in accordance with FIGURE 4.

6. **Group 1-3, 5-6, 22-23:**
Change the W0001 wire bundle in accordance with FIGURE 5 and FIGURE 6.

7. **Group 4:**
Change the W0001 wire bundle in accordance with FIGURE 5 and FIGURE 7.

8. **Group 1-6, 22-23:**
Change the W0003 wire bundle in accordance with FIGURE 5 and FIGURE 8.

9. **Group 1-7:**
Make changes to the W2218 wire bundle in accordance with FIGURE 48.

NOTE: This step is necessary to create an available position at the TB501 terminal block for the R1999 installation. Incorporation of this step will allow Figures 12, 13 and 14 for the W5156 wire bundle to be accomplished.

10. **Group 22:**
Make changes to the W2218 and W2135 wire bundles in accordance with FIGURE 49.

NOTE: This step is necessary to create an available position at the TB501 terminal block for the R1999 installation. Incorporation of this step will allow Figure 12 for the W5156 wire bundle to be accomplished.

11. **Group 23:**
Make changes to the W2218 and W2589 wire bundles in accordance with FIGURE 50.

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NOTE: This step is necessary to create an available position at the TB501 terminal block for the R1999 installation. Incorporation of this step will allow Figure 12 for the W5156 wire bundle to be accomplished.

12. **Group 5:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

    a. Change the W2508 wire bundle in accordance with FIGURE 9 and FIGURE 10.

    b. Change the W5156 wire bundle in accordance with FIGURE 9 and FIGURE 12.

    c. Change the W5514 wire bundle in accordance with FIGURE 9 and FIGURE 15.

13. **Group 1-2, 6, 22-23:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

    a. Change the W2508 wire bundle in accordance with FIGURE 9 and FIGURE 11.

    b. Change the W5156 wire bundle in accordance with FIGURE 9 and FIGURE 12.

    c. Change the W5514 wire bundle in accordance with FIGURE 9 and FIGURE 15.

14. **Group 3:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

    a. Change the W2508 wire bundle in accordance with FIGURE 9 and FIGURE 11.

    b. Change the W5156 wire bundle in accordance with FIGURE 9 and FIGURE 13.

    c. Change the W5514 wire bundle in accordance with FIGURE 9 and FIGURE 15.

15. **Group 4:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

    a. Change the W2508 wire bundle in accordance with FIGURE 9 and FIGURE 11.

    b. Change the W5156 wire bundle in accordance with FIGURE 9 and FIGURE 14.

    c. Change the W5514 wire bundle in accordance with FIGURE 9 and FIGURE 15.

16. **Group 1-5, 7, 22-23:**
Make changes to the W0040 and W0054 wire bundles that follow:

    a. Change the W0040 wire bundle in accordance with FIGURE 16 and FIGURE 17.

    b. Change the W0054 wire bundle in accordance with FIGURE 16 and FIGURE 20.

17. **Group 6:**
Make changes to the W0040 and W0054 wire bundles that follow:

    a. Change the W0040 wire bundle in accordance with FIGURE 18 and FIGURE 19.

    b. Change the W0054 wire bundle in accordance with FIGURE 18 and FIGURE 20.

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18. **Group 1-7, 22-23:**
On the E1-1 electronics shelf, change the W0111 wire bundle in accordance with FIGURE 21 and FIGURE 22.

NOTE: The E1-1 electronics shelf assembly must be removed to allow access to the wiring affected by this service bulletin.

19. **Group 1-7, 22-23:**
Change the W2103 wire bundle in accordance with FIGURE 23 and FIGURE 24.

20. **Group 7:**
Change the W5156 wire bundle in accordance with FIGURE 25.

21. **Group 7:**
Change the W5514 wire bundle in accordance with FIGURE 26.

22. **Group 1-7, 22-23:**
Supply electrical power to the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

23. **Group 1-7, 22-23:**
Do the 10,000 ft Pressure Switch Set-point Check that follows:

NOTE: The 10,000 ft Pressure Switch Set-point Check is applicable to both 737-21-1165 and 737-31A1332 service bulletins. If an operator incorporates 737-21-1165 and 737-31A1332 concurrently and this test is accomplished for one service bulletin, then the requirement is met for the other service bulletin.

NOTE: This test is similar to the Cabin Altitude Warning Switch Functional Test that is given in 737-600/700/800/900 AMM 21-33-00.

a. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129
P6-3/D18	LANDING GEAR AURAL WARN	C00451
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

b. Remove the screen port assembly from the cabin altitude warning switch S128.

c. Install an adapter fitting on the S128 switch. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

d. Connect an air data test unit to the adapter fitting. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

e. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 and monitor the altimeter.

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NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

f. Make sure that the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on at a pressure altitude between 9,000 and 11,000 feet.

g. Press the ALT HORN CUTOUT switch on the P5-16 Cabin Pressure Control panel.

h. Make sure the intermittent warning horn goes off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay on.

(1) Select the DIM position on the LIGHTS switch located on the P1-3 Panel.

(2) Make sure that the red CABIN ALTITUDE indicators on the P1-3 and P3-1 panels dim.

(3) Select the BRT position on the LIGHTS switch located on the P1-3 Panel.

(4) Make sure that the red CABIN ALTITUDE indicators on the P1-3 and P3-1 panels are bright.

i. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to 8,500 feet.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

j. Make sure the red CABIN ALTITUDE indicator lights the P1-3 and P3-1 panels go out.

k. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 and monitor the altimeter.

l. Make sure the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on at a pressure altitude between 9,000 and 11,000 feet.

NOTE: Do not press the ALT HORN CUTOUT switch. The intermittent warning horn must not be silenced in this step.

m. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to ambient.

n. Make sure the intermittent warning horn goes off and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels go off.

o. Remove the test equipment from the cabin altitude warning switch S128. Install the screen port assembly.

p. Repeat steps (b) through (o) on the second cabin altitude warning switch S1153 (if installed).

q. Put the airplane back to the pre-test condition.

24. **Group 1-7, 22-23:**
Do a Takeoff Warning System Test that follows:

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a. Make sure you did the Prepare for Test. Refer to 737-600/700/800/900 AMM 31-51-00 as an accepted procedure.

b. Set the parking brakes.

(1) Make sure the intermittent horn comes on.

(2) Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, come on.

(a) Select the DIM position on the LIGHTS switch located on the P1-3 Panel.

(b) Make sure that the red TAKEOFF CONFIG indicators on the P1-3 and P3-1 panel dim.

(c) Select the BRT position on the LIGHTS switch located on the P1-3 Panel.

(d) Make sure that the red TAKEOFF CONFIG indicators on the P1-3 and P3-1 panel are bright.

c. Move the thrust lever no. 1 to the idle position.

WARNING: MAKE SURE THAT YOU OPEN THE CIRCUIT BREAKER FOR THE WEATHER RADAR SYSTEM. THE FORWARD MOVEMENT OF A THRUST LEVER CAN CAUSE THE AUTOMATIC OPERATION OF THE SYSTEM. THE OPERATION OF THIS SYSTEM CAN CAUSE SERIOUS INJURY TO PERSONS AND DAMAGE TO EQUIPMENT IN THE AREA OF THE NOSE RADOME.

d. Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, go off.

e. Move the thrust lever no. 2 to the full forward thrust position.

f. Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, come on.

g. Move the thrust lever no. 2 to the idle position.

(1) Make sure the intermittent horn goes out when the thrust lever is approximately less than 20 degree TLA (52 degree TRA) forward of idle.

(2) Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, go off.

h. Release the parking brakes.

i. Move the thrust lever no. 1 to the full forward thrust position.

25. **Group 1-7, 22-23:**
For the airplanes that are equipped with the auto-land warning lights, do a functional test of the Auto-Land Warning Lights that follows:

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ALERT **ALERT**

WARNING: MAKE SURE ALL PERSONS AND EQUIPMENT ARE CLEAR OF CONTROL SURFACES, CABLES AND LANDING GEAR AREAS. PRESSURIZATION OF A HYDRAULIC SYSTEM CAN MOVE CONTROL SURFACES, CABLES, LANDING GEAR, AND LANDING GEAR DOORS. MOVEMENT OF CONTROL SURFACES, CABLES, LANDING GEAR, AND LANDING GEAR DOORS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

a. Make sure both IRUs are in the NAV mode.

b. Pressurize the A and B hydraulic systems. Refer to 737-600/700/800/900 AMM 29-11-00 as an accepted procedure.

c. Open the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALTN	C01400

d. Wait for at least 12 seconds.

e. Set the Channel A Autopilot to "CMD".

f. Set the Channel B Autopilot to "CMD".

g. Make sure that both Autopilots disconnect.

h. Make sure that both the Captain's and First Officer's (F/O's) Auto-Land Warning lights come on flashing red.

i. Set the Channel A Autopilot to "CMD".

j. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

k. Push and hold the Captain's Auto-Land Warning light.

l. Make sure that both the Captain's and F/O's Auto-Land Warning lights come on flashing red.

m. Release the Captain's Auto-Land Warning light.

n. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

o. Push and hold the F/O's Auto-Land Warning light.

p. Make sure that both the Captain's and F/O's Auto-Land Warning lights come on flashing red.

q. Release the F/O's Auto-Land Warning light.

r. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

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s. Press the Captain's column mounted Autopilot Disconnect Switch to reset.

t. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALTN	C01400

u. Switch the A and B hydraulic systems off. Refer to 737-600/700/800/900 AMM 29-11-00 as an accepted procedure.

26. **Group 1-7, 22-23:**
Do a Stabilizer Position Sensor Test. Refer to 737-600/700/800/900 AMM 22-11-31 as an accepted procedure.

27. **Group 1-7, 22-23:**
For the airplanes that are equipped with the Flap Load Relief lights option, do a functional test of the Flap Load Relief Light that follows:

a. Close the circuit breakers on the P6 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-2/A6	FLIGHT CONTROL FLAP LOAD RELIEF	C00566
P6-2/A7	FLIGHT CONTROL FLAP SHUT-OFF VALVES	C00210
P6-2/A8	FLIGHT CONTROL FSEU DC1	C00211
P6-2/A9	FLIGHT CONTROL FSEU DC2	C01468
P6-2/A11	FC TE FLAP POS/SKEW SNSR & IND RIGHT	C01443
P6-2/A12	FC TE FLAP POS/SKEW SNSR & IND LEFT	C00213
P6-2/C11	FLIGHT CONT SHUTOFF VALVES STBY RUD	C00362
P6-2/D13	FLIGHT CONTROL ALTN TE FLAP DRIVE	C00841
P6-3/C15	LANDING GEAR AIR/GND SYS 2	C01355
P6-3/D15	LANDING GEAR AIR/GND RELAY	C01401
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314
P6-3/F9	OVERHEAD 5V SECONDARY	C00330
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

b. Close the circuit breakers on the P18 panel that follow:

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LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-1/E5	ADIRU LEFT DC	C01009
P18-1/E7	ADIRU LEFT AC	C01007
P18-2/E8	ADIRU LEFT EXC	C00425

c. Close the circuit breakers on the P41 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P41	CENTER PANEL LIGHTING (28V AC)	C5
P41	CENTER PANEL LIGHTING (5V AC)	C7

d. Pressurize the B hydraulic system to 3000 psi.

e. Press the ON/OFF push button on the Flap/Slat Electronics Unit (FSEU) to display "EXISTING FAULTS?"

f. Press the NO switch twice on the FSEU to display "GROUND TESTS?"

g. Press the YES switch on the FSEU to display "TE ASYM-SKW-IND?"

h. Press the NO switch on the FSEU to display "TE FLAP LD REL?"

i. Press the YES switch on the FSEU to display "WARNING: FLP CLR?"

j. Press the YES switch on the FSEU to display "FLP LVR TO 40?"

k. Move the flap lever to the 40 detent and wait for the flaps to stop moving.

WARNING: DURING THE NEXT STEP THE FLAPS WILL MOVE AUTOMATICALLY SIMULATING FLAP LOAD RELIEF AT HIGH AIRSPEED.

l. Press the YES switch on the FSEU. Make sure the FSEU displays "TEST IN PROGRESS", and then "FLP LVR TO 30?" for the 737-600/700/800/900 models, and "FLP LVR TO 10?" for the 737-900ER/SFP models.

m. Make sure the Flap Load Relief light comes on, and then goes off.

n. Press the ON/OFF push button on the FSEU to switch the unit off.

28. **Group 1-7, 22-23:**
For the airplanes that are equipped with the Advisory Ice Detection System option, do a functional test that follows:

NOTE: Not all twelve Master Caution systems will be operational, therefore ignore all faulted systems except "ANTI-ICE" on the Glareshield Annunciator. Deactivate the Probe Heat and Engine Cowl Anti-Ice systems in order to isolate the ice detection system from the Annunciator and this functional test. Window heat should be activated and operational.

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ALERT **ALERT**

WARNING: THIS TEST ACTIVATES THE ICE DETECTOR PROBE HEATERS. EXTREME CAUTION MUST BE TAKEN TO PREVENT PERSONAL INJURY FROM BURNS DUE TO HEAT GENERATED IN DETECTOR SENSING ELEMENT AND STRUT.

a. Close the circuit breakers on the P18-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CONTROL	C00149
P18-3/B5	ICE DET PWR	C01250

b. Close the circuit breakers on the P6-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALT	C01400
P6-3/C12	MASTER CAUTION ANNUNCIATOR CONT 2	C01276
P6-3/B13	MASTER CAUTION ANNUNCIATOR BAT	C00131
P6-3/B12	MASTER CAUTION ANNUNCIATOR BUS 1	C00132
P6-3/D11	INDICATOR MASTER DIM DIM/TST CONT	C00133
P6-3/E14	INDICATOR MASTER DIM SECT 4	C00316
P6-3/F11	INDICATOR MASTER DIM SECT 5	C00317

c. Open the circuit breakers on the P6-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/F18	PROBE INDICATION CAPT	C00569
P6-3/F16	PROBE INDICATION F/O	C00570

WARNING: TO AVOID INJURY TO PERSONNEL, STAY CLEAR OF LEADING EDGE SLATS AND OTHER MOVEABLE SURFACES, WHICH CAN MOVE AUTOMATICALLY (UNLESS OTHERWISE INHIBITED). THIS CONDITION MAY OCCUR WHEN EITHER HYDRAULIC SYSTEM IS PRESSURIZED DUE TO AIR/GROUND STATE TRANSITION.

d. Set Air/Ground SYSTEM #1 to air mode on the Proximity Switch Electronic Unit (PSEU) module (M2061).

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e. Press-to-reset either "MASTER CAUTION" light.

f. Make sure the "ICING" and "NO ICE" lights on the P1-3 panel, and the "MASTER CAUTION" and "ANTI-ICE" lights on the F/O Glareshield Annunciator are off.

g. Cool the Ice Detector Sensing Element M1616 (STA 248, WL188, LBL 44) by spraying Coolant and Water mist onto element at the same time, until the "ICING" light on the P1-3 panel comes on.

REQUIRED TEST EQUIPMENT			
QTY	**PART NUMBER**	**NAME**	**NOTES**
1	-	Spray Bottle (Water)	(a)
1	MS-242 (or equivalent)	Quick Freeze	(b)
(a) Water spray bottle (atomiser) with water. Water steam is not acceptable.			
(b) Compressed freon or circuit component cooler, or equivalent.			

h. Make sure the "ICING" light on the P1-3 panel stays on for approximately 122 seconds.

i. Make sure the "ICING" light on the P1-3 panel goes off and the "NO ICE" light comes on.

NOTE: Make sure the "ICING" and "NO ICE" lights are not on at the same time.

j. Press-to-cancel the "NO ICE" light.

k. Make sure the "NO ICE" light goes off immediately.

l. Cool the Ice Detector Sensing Element M1616 by spraying Coolant and Water mist onto element at the same time, until the "ICING" light on the P1-3 panel comes on.

m. Make sure the "ICING" light on the P1-3 panel is on.

n. Press-to-cancel the "ICING" light.

o. Make sure the "ICING" light goes off immediately.

p. Make sure the "NO ICE" light comes on in approximately 122 seconds after the "ICING" light.

q. Press-to-cancel the "NO ICE" light.

r. Make sure the "ICING", "NO ICE" and "MASTER CAUTION" lights are off.

s. Open the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/B5	ICE DET PWR	C01250

t. Make sure the "ICE DETECTOR" light on the P5-11 Overhead Panel, and the "MASTER CAUTION" and "ANTI-ICE" lights on the F/O Glareshield Annunciator come on.

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u. Close the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/B5	ICE DET PWR	C01250

v. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights go off.

w. Open the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CONTROL	C00149

x. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights come on.

y. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CONTROL	C00149

z. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights go off.

aa. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/F18	PROBE INDICATION CAPT	C00569
P6-3/F16	PROBE INDICATION F/O	C00570

29. **Group 2, Configuration 1:**
Do a functional test of the digital HGS Annunciator Panel (HAP).

NOTE: On some BBJ configured airplanes, the HAP is installed but is not yet operative. This is indicated by an "INOP" label attached adjacent to the HAP on the P3-3 panel. If the HAP is inoperative, do not perform this test. An inoperative HAP will not respond to tests initiated from the HCP or the BRT/DIM/TEST switch.

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ALERT **ALERT**

a. Set the Master BRT/DIM/TEST switch (on the P1-3 panel) to the BRT position. Push and release the TEST pushbutton on the HCP to start the test.

b. Make sure the "AIII", "RO", "TO", "NO AIII", "RO CTN", "TO CTN", "FLARE", "RO ARM","APCH WARN" and "TO WARN" messages are displayed bright for 2 to 5 seconds, and then go out. The HGS FAIL pushbutton is lighted for 2 to 5 seconds after the test starts.

c. Push and release the TEST pushbutton on the HCP.

d. Set the Master BRT/DIM/TEST switch to the DIM position. Push and release the TEST pushbutton on the HCP.

e. Make sure the "AIII", "RO", "TO", "NO AIII", "RO CTN", "TO CTN", "FLARE", "RO ARM","APCH WARN" and "TO WARN" messages are displayed dim for 2 to 5 seconds, and then go out. The HGS FAIL pushbutton is lighted for 2 to 5 seconds after the test starts.

f. Push and release the TEST pushbutton on the HCP.

g. Select TEST on the Master BRT/DIM/TEST switch.

h. Make sure that all the Annunciator Panel annunciations come on.

i. Deselect TEST on the Master BRT/DIM/TEST switch.

j. Make sure that all the Annunciator Panel annunciations go off.

k. Push and release the TEST pushbutton on the HCP.

l. Make sure BIT tests pass, HGS Test Menu displays on the Combiner.

m. Select "EXISTING FAULTS" from the Test Menu.

n. Make sure the Existing Faults page displays on the Combiner.

o. Open the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-2/C1	HEAD UP DISPLAY ANNUN DC	C01622

p. Make sure the fault code "HAPC1" is displayed on the Existing Faults page.

q. Close the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-2/C1	HEAD UP DISPLAY ANNUN DC	C01622

r. Make sure the fault code "HAPC1" is no longer displayed on the Existing Faults page and the HAP functions normally.

s. Push and release the TEST pushbutton on the HCP.

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30. **Group 1-7, 22-23:**
Do a Common Display System (CDS) Module Operational Test to check the functionality of the CDS select switch after the replacement of the P1-3 and P3-1 panels. Refer to 737-600/700/800/900 AMM 31-62-00 as an accepted procedure.

31. **Group 1-7, 22-23:**
Do a Brake Accumulator Pressure Gage Installation Test to check the functionality of the brake pressure gage after the replacement of the P1-3 and P3-1 panels. Refer to 737-600/700/800/900 AMM 32-41-54 as an accepted procedure.

32. **Group 1-7, 22-23:**
Put the airplane back to a serviceable condition.

Group 8-21:
Airplanes with the high altitude landing configuration of the Cabin Altitude Warning System

1. **Group 8-21:**
Remove electrical power from the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

2. **Group 8-12, 16-18, 20:**
In the flight compartment, change the P1-3 panel in accordance with FIGURE 1.

3. **Group 8-12, 16-18, 20:**
In the flight compartment, change the P3-1 panel in accordance with FIGURE 2.

4. **Group 13-15, 19, 21:**
In the flight compartment, on the P1-3 and P3-1 forward instrument panels, remove INOP markers that cover the Cabin Altitude and Takeoff Config annunciators and replace the "TAKEOFF CONFIG" lights in accordance with FIGURE 3.

5. **Group 8-21:**
In the flight compartment, on the P6-2 circuit breaker panel, install the new C01698 circuit breaker in accordance with FIGURE 4.

6. **Group 8-11, 13-14, 16-18, 20-21:**
At the lower forward fuselage, open the Forward Access Door 112A to get access into the area forward of the nose landing gear wheel well. Refer to 737-600/700/800/900 AMM 52-40-00 as an accepted procedure.

7. **Group 8-9, 11, 13-14, 16-18:**
On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172 in accordance with FIGURE 27.

8. **Group 10, 20:**
On the ceiling of the forward electronics compartment, install the cabin high altitude warning switch S1172 in accordance with FIGURE 28.

9. **Group 8-20:**
In the flight compartment, at the P5 overhead panel, make the changes that follow:

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a. On the P5-16 Cabin Altitude and Rate of Climb Panel, remove and keep the Cabin Rate of Climb Indicator. Refer to 737-600/700/800/900 AMM 21-33-01 as an accepted procedure.

b. Remove and keep the Cabin Altitude and Differential Pressure Indicator. Refer to 737-600/700/800/900 AMM 21-33-02 as an accepted procedure.

c. Remove the P5-16 Cabin Altitude and Rate of Climb Panel in accordance with FIGURE 29.

d. Install the new P5-16 Cabin Altitude and Rate of Climb Panel in accordance with FIGURE 30.

e. Install the kept Cabin Altitude and Differential Pressure Indicator. Refer to 737-600/700/800/900 AMM 21-33-02 as an accepted procedure.

f. Install the kept Cabin Rate of Climb Indicator. Refer to 737-600/700/800/900 AMM 21-33-01 as an accepted procedure.

10. **Group 8, 10-11, 13, 16-17, 20:**
In the flight compartment, at the P5 overhead panel, replace the existing P5-10 air conditioning module with a new module in accordance with FIGURE 31.

11. **Group 9, 14, 18:**
In the flight compartment, at the P5 overhead panel, replace the existing P5-10 air conditioning module with a new module in accordance with FIGURE 32.

12. **Group 8-12, 16-18, 20:**
Change the W0001 wire bundle in accordance with FIGURE 5 and FIGURE 6.

13. **Group 8-12, 16-18, 20:**
Change the W0003 wire bundle in accordance with FIGURE 5 and FIGURE 8.

14. **Group 8-10, 12-21:**
Make changes to the W0040 and W0054 wire bundles that follow:

a. Change the W0040 wire bundle in accordance with FIGURE 16 and FIGURE 17.

b. Change the W0054 wire bundle in accordance with FIGURE 16 and FIGURE 20.

15. **Group 11:**
Make changes to the W0040 and W0054 wire bundles that follow:

a. Change the W0040 wire bundle in accordance with FIGURE 18 and FIGURE 19.

b. Change the W0054 wire bundle in accordance with FIGURE 18 and FIGURE 20.

16. **Group 8-21:**
On the E1-1 electronics shelf, change the W0111 wire bundle in accordance with FIGURE 21 and FIGURE 22.

NOTE: The E1-1 electronics shelf assembly must be removed to allow access to the wiring affected by this service bulletin.

17. **Group 8-21:**
Change the W2103 wire bundle in accordance with FIGURE 23 and FIGURE 24.

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18. **Group 8-10, 12-21:**
Make changes to the W2218 wire bundle in accordance with FIGURE 48.

NOTE: This step is necessary to create an available position at the TB501 terminal block for the R1999 installation. Incorporation of this step will allow Figures 12, 38, 39 and 46 for the W5156 wire bundle to be accomplished.

19. **Group 8-11, 16:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 34.

b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 38.

c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 40.

20. **Group 12:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 35.

b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 38.

c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 41.

21. **Group 13-14:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 36.

b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 39.

c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 42.

22. **Group 15, 21:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 37.

b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 39.

c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 43.

23. **Group 17-18, 20:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 44.

b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 12.

c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 45.

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24. **Group 19:**
Make changes to the W2508, W5156 and W5514 wire bundles that follow:

    a. Change the W2508 wire bundle in accordance with FIGURE 33 and FIGURE 37.

    b. Change the W5156 wire bundle in accordance with FIGURE 33 and FIGURE 46.

    c. Change the W5514 wire bundle in accordance with FIGURE 33 and FIGURE 47.

25. **Group 8-21:**
Supply electrical power to the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

26. **Group 8-21:**
Do a functional test of the Cabin Altitude Warning System that follows:

    NOTE: The Part A: Lighting Check, Part B: 10,000 ft Pressure Switch Set-point Check and Part C: High Altitude Pressure Switch Set-point and Wiring Check are applicable to both 737-21-1165 and 737-31A1332 service bulletins. If an operator incorporates 737-21-1165 and 737-31A1332 concurrently and these tests are accomplished for one service bulletin, then the requirement is met for the other service bulletin.

    Part A: Lighting Check

    a. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/C13	MASTER CAUTION ANNUNCIATOR CONT 3	C01277
P6-3/D11	INDICATOR MASTER DIM/TEST CONT	C00133
P6-3/D12	INDICATOR MASTER DIM BAT	C00310
P6-3/D13	INDICATOR MASTER DIM BUS1	C00311
P6-3/E11	INDICATOR MASTER DIM BUS SECT 1	C00313
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129
P6-3/D18	LANDING GEAR AURAL WARN	C00451
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

    b. Set the LIGHTS Brt/Dim/Test switch located on the P1-3 panel to the TEST position.

    c. Make sure the white ON and amber INOP lights on the P5-16 panel come on.

    d. Make sure the red CABIN ALTITUDE lights on the P1-3 and P3-1 panels come on.

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e. Set the LIGHTS Brt/Dim/Test switch located on the P1-3 panel to the BRT position.

f. Make sure the white ON and amber INOP lights on the P5-16 panel go off.

g. Make sure the red CABIN ALTITUDE lights on the P1-3 and P3-1 panels go off.

Part B: 10,000 ft Pressure Switch Set-point Check

NOTE: This test is similar to the Cabin Altitude Warning Switch Functional Test that is given in 737-600/700/800/900 AMM 21-33-00.

a. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129
P6-3/D18	LANDING GEAR AURAL WARN	C00451
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

b. Remove the screen port assembly from the cabin altitude warning switch S128.

c. Install an adapter fitting on the S128 switch. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

d. Connect an air data test unit to the adapter fitting. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

e. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 and monitor the altimeter.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

f. Make sure that the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on at a pressure altitude between 9,000 and 11,000 feet.

g. Press the ALT HORN CUTOUT switch on the P5-16 Cabin Pressure Control panel.

h. Make sure the intermittent warning horn goes off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay on.

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(1) Select the DIM position on the LIGHTS switch located on the P1-3 Panel.

(2) Make sure that the red CABIN ALTITUDE indicators on the P1-3 and P3-1 panels dim.

(3) Select the BRT position on the LIGHTS switch located on the P1-3 Panel.

(4) Make sure that the red CABIN ALTITUDE indicators on the P1-3 and P3-1 panels are bright.

i. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to 8,500 feet.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

j. Make sure the red CABIN ALTITUDE indicator lights the P1-3 and P3-1 panels go out.

k. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 and monitor the altimeter.

l. Make sure the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on at a pressure altitude between 9,000 and 11,000 feet.

NOTE: Do not press the ALT HORN CUTOUT switch. The intermittent warning horn must not be silenced in this step.

m. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to ambient.

n. Make sure the intermittent warning horn goes off and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels go off.

o. Remove the test equipment from the cabin altitude warning switch S128. Install the screen port assembly.

p. Repeat steps (b) through (o) on the second cabin altitude warning switch S1153 (if installed).

q. Put the airplane back to the pre-test condition.

Part C: High Altitude Pressure Switch Set-point and Wiring Check.

NOTE: This test is similar to the Cabin Altitude Warning Switch Functional Test that is given in 737-600/700/800/900 AMM 21-33-00.

a. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129
P6-3/D18	LANDING GEAR AURAL WARN	C00451
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314

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LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

b. Press the HIGH ALT LDG button on the P5-16 panel. Make sure the white ON light on the P5-16 panel comes on and the amber INOP light on the P5-16 panel stays off.

c. Remove the screen port assembly from the cabin high altitude warning switch S1172.

d. Install an adapter fitting on the S1172 switch. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

e. Connect an air data test unit to the adapter fitting. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

f. Slowly decrease the vacuum pressure on the cabin altitude warning switch S1172 and monitor the altimeter.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

g. Make sure the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on between a pressure altitude of A and B from the table below.

S1172 Switch part number	A	B	C
214C40-1-183	14,850 ft	15,550 ft	12,350 ft
214C40-1-122	14,300 ft	15,000 ft	11,800 ft
214C40-1-110	13,650 ft	14,350 ft	11,150 ft
214C40-1-115	12,300 ft	13,000 ft	10,200 ft

h. Press the ALT HORN CUTOUT switch on the P5-16 panel.

i. Make sure the intermittent warning horn goes off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay on.

j. Get access to the cabin altitude warning switch S128. Disconnect the connector D776 and short Pins A and B of the connector D776 using a jumper wire.

k. Open the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129

l. Make sure the amber INOP light on the P5-16 panel comes on and the MASTER CAUTION indicator comes on.

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m. Make sure the intermittent warning horn comes on. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay on.

n. Close the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/B17	LANDING GEAR LATCH & PRESS WARN	C00129

o. Make sure the amber INOP light on the P5-16 panel goes off and the white ON light stays on.

p. Make sure the intermittent warning horn stays on. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay on.

NOTE: Do not press the ALT HORN CUTOUT switch. The intermittent warning horn must not be silenced in this step.

q. Slowly increase the vacuum pressure on the cabin altitude warning switch S1172 to C feet from the table above.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

r. Make sure the intermittent warning horn goes off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels go out.

s. Slowly increase the vacuum pressure on the cabin altitude warning switch S1172 to ambient.

t. Remove the test equipment from the cabin altitude warning switch S1172. Install the screen port assembly.

u. Remove the jumper wire from the connector D776 on the cabin altitude warning switch S128. Reconnect the connector D776.

v. Remove the screen port assembly from the cabin high altitude warning switch S128.

w. Install an adapter fitting on the S128 switch. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

x. Connect an air data test unit to the adapter fitting. Refer to 737-600/700/800/900 AMM 21-33-00 for test equipment requirements.

y. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 to 11,000ft.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

z. Make sure the intermittent warning horn stays off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay off.

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aa. Press the HIGH ALT LDG button on the P5-16 panel. Make sure the white ON light on the P5-16 panel goes off and the amber INOP light on the P5-16 panel stays off.

ab. Make sure the intermittent warning horn stays off. Make sure the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels stay off.

ac. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to 8,500ft.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

ad. Slowly decrease the vacuum pressure on the cabin altitude warning switch S128 and monitor the altimeter.

NOTE: Do not change the altitude at a rate more than 4,000 feet per minute (2.0 psi/minute or 13.8 kPa/minute). Exceeding this rate can result in inaccurate measurement.

ae. Make sure the intermittent warning horn comes on and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels come on at a pressure altitude between 9,000 and 11,000 feet.

af. Slowly increase the vacuum pressure on the cabin altitude warning switch S128 to ambient.

ag. Make sure the intermittent warning horn goes off and the red CABIN ALTITUDE indicator lights on the P1-3 and P3-1 panels go off.

ah. Remove the test equipment from the cabin altitude warning switch S128. Install the screen port assembly

ai. Return the airplane to the pre-test condition.

27. **Group 8-21:**
Do a Takeoff Warning System Test that follows:

a. Make sure you did the Prepare for Test. Refer to 737-600/700/800/900 AMM 31-51-00 as an accepted procedure.

b. Set the parking brakes.

(1) Make sure the intermittent horn comes on.

(2) Make sure that the TAKEOFF CONFIG lights on the Captain’s instrument panel P1-3, and the First Officer’s instrument panel P3-1, come on.

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(a) Select the DIM position on the LIGHTS switch located on the P1-3 Panel.

(b) Make sure that the red TAKEOFF CONFIG indicators on the P1-3 and P3-1 panel dim.

(c) Select the BRT position on the LIGHTS switch located on the P1-3 Panel.

(d) Make sure that the red TAKEOFF CONFIG indicators on the P1-3 and P3-1 panel are bright.

c. Move the thrust lever no. 1 to the idle position.

WARNING: MAKE SURE THAT YOU OPEN THE CIRCUIT BREAKER FOR THE WEATHER RADAR SYSTEM. THE FORWARD MOVEMENT OF A THRUST LEVER CAN CAUSE THE AUTOMATIC OPERATION OF THE SYSTEM. THE OPERATION OF THIS SYSTEM CAN CAUSE SERIOUS INJURY TO PERSONS AND DAMAGE TO EQUIPMENT IN THE AREA OF THE NOSE RADOME.

d. Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, go off.

e. Move the thrust lever no. 2 to the full forward thrust position.

f. Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, come on.

g. Move the thrust lever no. 2 to the idle position.

(1) Make sure the intermittent horn goes out when the thrust lever is approximately less than 20 degree TLA (52 degree TRA) forward of idle.

(2) Make sure that the TAKEOFF CONFIG lights on the Captain's instrument panel P1-3, and the First Officer's instrument panel P3-1, go off.

h. Release the parking brakes.

i. Move the thrust lever no. 1 to the full forward thrust position.

28. **Group 8-21:**
For the airplanes that are equipped with the auto-land warning lights, do a functional test of the Auto-Land Warning Lights that follows:

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ALERT **ALERT**

WARNING: MAKE SURE ALL PERSONS AND EQUIPMENT ARE CLEAR OF CONTROL SURFACES, CABLES AND LANDING GEAR AREAS. PRESSURIZATION OF A HYDRAULIC SYSTEM CAN MOVE CONTROL SURFACES, CABLES, LANDING GEAR, AND LANDING GEAR DOORS. MOVEMENT OF CONTROL SURFACES, CABLES, LANDING GEAR, AND LANDING GEAR DOORS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

a. Make sure both IRUs are in the NAV mode.

b. Pressurize the A and B hydraulic systems. Refer to 737-600/700/800/900 AMM 29-11-00 as an accepted procedure.

c. Open the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALTN	C01400

d. Wait for at least 12 seconds.

e. Set the Channel A Autopilot to "CMD".

f. Set the Channel B Autopilot to "CMD".

g. Make sure that both Autopilots disconnect.

h. Make sure that both the Captain's and First Officer's (F/O's) Auto-Land Warning lights come on flashing red.

i. Set the Channel A Autopilot to "CMD".

j. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

k. Push and hold the Captain's Auto-Land Warning light.

l. Make sure that both the Captain's and F/O's Auto-Land Warning lights come on flashing red.

m. Release the Captain's Auto-Land Warning light.

n. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

o. Push and hold the F/O's Auto-Land Warning light.

p. Make sure that both the Captain's and F/O's Auto-Land Warning lights come on flashing red.

q. Release the F/O's Auto-Land Warning light.

r. Make sure that both the Captain's and F/O's Auto-Land Warning lights go off.

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s. Press the Captain's column mounted Autopilot Disconnect Switch to reset.

t. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALTN	C01400

u. Switch the A and B hydraulic systems off. Refer to 737-600/700/800/900 AMM 29-11-00 as an accepted procedure.

29. **Group 8-21:**
Do a Stabilizer Position Sensor Test. Refer to 737-600/700/800/900 AMM 22-11-31 as an accepted procedure.

30. **Group 8-21:**
For the airplanes that are equipped with the Flap Load Relief lights option, do a functional test of the Flap Load Relief Light that follows:

a. Close the circuit breakers on the P6 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-2/A6	FLIGHT CONTROL FLAP LOAD RELIEF	C00566
P6-2/A7	FLIGHT CONTROL FLAP SHUT-OFF VALVES	C00210
P6-2/A8	FLIGHT CONTROL FSEU DC1	C00211
P6-2/A9	FLIGHT CONTROL FSEU DC2	C01468
P6-2/A11	FC TE FLAP POS/SKEW SNSR & IND RIGHT	C01443
P6-2/A12	FC TE FLAP POS/SKEW SNSR & IND LEFT	C00213
P6-2/C11	FLIGHT CONT SHUTOFF VALVES STBY RUD	C00362
P6-2/D13	FLIGHT CONTROL ALTN TE FLAP DRIVE	C00841
P6-3/C15	LANDING GEAR AIR/GND SYS 2	C01355
P6-3/D15	LANDING GEAR AIR/GND RELAY	C01401
P6-3/E12	INDICATOR MASTER DIM SECT 2	C00314
P6-3/F9	OVERHEAD 5V SECONDARY	C00330
P6-3/F12	INDICATOR MASTER DIM SECT 6	C00318

b. Close the circuit breakers on the P18 panel that follow:

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LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-1/E5	ADIRU LEFT DC	C01009
P18-1/E7	ADIRU LEFT AC	C01007
P18-2/E8	ADIRU LEFT EXC	C00425

c. Close the circuit breakers on the P41 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P41	CENTER PANEL LIGHTING (28V AC)	C5
P41	CENTER PANEL LIGHTING (5V AC)	C7

d. Pressurize the B hydraulic system to 3000 psi.

e. Press the ON/OFF push button on the Flap/Slat Electronics Unit (FSEU) to display "EXISTING FAULTS?"

f. Press the NO switch twice on the FSEU to display "GROUND TESTS?"

g. Press the YES switch on the FSEU to display "TE ASYM-SKW-IND?"

h. Press the NO switch on the FSEU to display "TE FLAP LD REL?"

i. Press the YES switch on the FSEU to display "WARNING: FLP CLR?"

j. Press the YES switch on the FSEU to display "FLP LVR TO 40?"

k. Move the flap lever to the 40 detent and wait for the flaps to stop moving.

WARNING: DURING THE NEXT STEP THE FLAPS WILL MOVE AUTOMATICALLY SIMULATING FLAP LOAD RELIEF AT HIGH AIRSPEED.

l. Press the YES switch on the FSEU. Make sure the FSEU displays "TEST IN PROGRESS", and then "FLP LVR TO 30?" for the 737-600/700/800/900 models, and "FLP LVR TO 10?" for the 737-900ER/SFP models.

m. Make sure the Flap Load Relief light comes on, and then goes off.

n. Press the ON/OFF push button on the FSEU to switch the unit off.

31. **Group 8-21:**
For the airplanes that are equipped with the Advisory Ice Detection System option, do a functional test that follows:

NOTE: Not all twelve Master Caution systems will be operational, therefore ignore all faulted systems except "ANTI-ICE" on the Glareshield Annunciator. Deactivate the Probe Heat and Engine Cowl Anti-Ice systems in order to isolate the ice detection system from the Annunciator and this functional test. Window heat should be activated and operational.

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ALERT **ALERT**

WARNING: THIS TEST ACTIVATES THE ICE DETECTOR PROBE HEATERS. EXTREME CAUTION MUST BE TAKEN TO PREVENT PERSONAL INJURY FROM BURNS DUE TO HEAT GENERATED IN DETECTOR SENSING ELEMENT AND STRUT.

a. Close the circuit breakers on the P18-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CONTROL	C00149
P18-3/B5	ICE DET PWR	C01250

b. Close the circuit breakers on the P6-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/D1	PSEU PRI	C01399
P6-3/D2	PSEU ALT	C01400
P6-3/C12	MASTER CAUTION ANNUNCIATOR CONT 2	C01276
P6-3/B13	MASTER CAUTION ANNUNCIATOR BAT	C00131
P6-3/B12	MASTER CAUTION ANNUNCIATOR BUS 1	C00132
P6-3/D11	INDICATOR MASTER DIM DIM/TST CONT	C00133
P6-3/E14	INDICATOR MASTER DIM SECT 4	C00316
P6-3/F11	INDICATOR MASTER DIM SECT 5	C00317

c. Open the circuit breakers on the P6-3 panel that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/F18	PROBE INDICATION CAPT	C00569
P6-3/F16	PROBE INDICATION F/O	C00570

WARNING: TO AVOID INJURY TO PERSONNEL, STAY CLEAR OF LEADING EDGE SLATS AND OTHER MOVEABLE SURFACES, WHICH CAN MOVE AUTOMATICALLY (UNLESS OTHERWISE INHIBITED). THIS CONDITION MAY OCCUR WHEN EITHER HYDRAULIC SYSTEM IS PRESSURIZED DUE TO AIR/GROUND STATE TRANSITION.

d. Set Air/Ground SYSTEM #1 to air mode on the Proximity Switch Electronic Unit (PSEU) module (M2061).

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e. Press-to-reset either "MASTER CAUTION" light.

f. Make sure the "ICING" and "NO ICE" lights on the P1-3 panel, and the "MASTER CAUTION" and "ANTI-ICE" lights on the F/O Glareshield Annunciator are off.

g. Cool the Ice Detector Sensing Element M1616 (STA 248, WL188, LBL 44) by spraying Coolant and Water mist onto element at the same time, until the "ICING" light on the P1-3 panel comes on.

REQUIRED TEST EQUIPMENT			
QTY	**PART NUMBER**	**NAME**	**NOTES**
1	-	Spray Bottle (Water)	(a)
1	MS-242 (or equivalent)	Quick Freeze	(b)
(a) Water spray bottle (atomiser) with water. Water steam is not acceptable.			
(b) Compressed freon or circuit component cooler, or equivalent.			

h. Make sure the "ICING" light on the P1-3 panel stays on for approximately 122 seconds.

i. Make sure the "ICING" light on the P1-3 panel goes off and the "NO ICE" light comes on.

NOTE: Make sure the "ICING" and "NO ICE" lights are not on at the same time.

j. Press-to-cancel the "NO ICE" light.

k. Make sure the "NO ICE" light goes off immediately.

l. Cool the Ice Detector Sensing Element M1616 by spraying Coolant and Water mist onto element at the same time, until the "ICING" light on the P1-3 panel comes on.

m. Make sure the "ICING" light on the P1-3 panel is on.

n. Press-to-cancel the "ICING" light.

o. Make sure the "ICING" light goes off immediately.

p. Make sure the "NO ICE" light comes on in approximately 122 seconds after the "ICING" light.

q. Press-to-cancel the "NO ICE" light.

r. Make sure the "ICING", "NO ICE" and "MASTER CAUTION" lights are off.

s. Open the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/B5	ICE DET PWR	C01250

t. Make sure the "ICE DETECTOR" light on the P5-11 Overhead Panel, and the "MASTER CAUTION" and "ANTI-ICE" lights on the F/O Glareshield Annunciator come on.

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u. Close the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/B5	ICE DET PWR	C01250

v. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights go off.

w. Open the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CON-TROL	C00149

x. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights come on.

y. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-3/A6	ANTI-ICE & RAIN ENGINE 1 & WING CONTROL	C00148
P18-3/B6	ANTI-ICE & RAIN ENGINE 2 CON-TROL	C00149

z. Make sure the "ICE DETECTOR" light, and the "MASTER CAUTION" and "ANTI-ICE" lights go off.

aa. Close the circuit breakers that follow:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P6-3/F18	PROBE INDICATION CAPT	C00569
P6-3/F16	PROBE INDICATION F/O	C00570

32. **Group 8-21:**
For the BBJ configured airplanes, do a functional test of the digital HGS Annunciator Panel (HAP).

NOTE: On some BBJ configured airplanes, the HAP is installed but is not yet operative. This is indicated by an "INOP" label attached adjacent to the HAP on the P3-3 panel. If the HAP is inoperative, do not perform this test. An inoperative HAP will not respond to tests initiated from the HCP or the BRT/DIM/TEST switch.

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a. Set the Master BRT/DIM/TEST switch (on the P1-3 panel) to the BRT position. Push and release the TEST pushbutton on the HCP to start the test.

b. Make sure the "AIII", "RO", "TO", "NO AIII", "RO CTN", "TO CTN", "FLARE", "RO ARM","APCH WARN" and "TO WARN" messages are displayed bright for 2 to 5 seconds, and then go out. The HGS FAIL pushbutton is lighted for 2 to 5 seconds after the test starts.

c. Push and release the TEST pushbutton on the HCP.

d. Set the Master BRT/DIM/TEST switch to the DIM position. Push and release the TEST pushbutton on the HCP.

e. Make sure the "AIII", "RO", "TO", "NO AIII", "RO CTN", "TO CTN", "FLARE", "RO ARM","APCH WARN" and "TO WARN" messages are displayed dim for 2 to 5 seconds, and then go out. The HGS FAIL pushbutton is lighted for 2 to 5 seconds after the test starts.

f. Push and release the TEST pushbutton on the HCP.

g. Select TEST on the Master BRT/DIM/TEST switch.

h. Make sure that all the Annunciator Panel annunciations come on.

i. Deselect TEST on the Master BRT/DIM/TEST switch.

j. Make sure that all the Annunciator Panel annunciations go off.

k. Push and release the TEST pushbutton on the HCP.

l. Make sure BIT tests pass, HGS Test Menu displays on the Combiner.

m. Select "EXISTING FAULTS" from the Test Menu.

n. Make sure the Existing Faults page displays on the Combiner.

o. Open the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-2/C1	HEAD UP DISPLAY ANNUN DC	C01622

p. Make sure the fault code "HAPC1" is displayed on the Existing Faults page.

q. Close the circuit breaker that follows:

LOCATION/POSITION	NAME	CIRCUIT BREAKER
P18-2/C1	HEAD UP DISPLAY ANNUN DC	C01622

r. Make sure the fault code "HAPC1" is no longer displayed on the Existing Faults page and the HAP functions normally.

s. Push and release the TEST pushbutton on the HCP.

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33. **Group 8-21:**
Do a Common Display System (CDS) Module Operational Test to check the functionality of the CDS select switch after the replacement of the P1-3 and P3-1 panels. Refer to 737-600/700/800/900 AMM 31-62-00 as an accepted procedure.

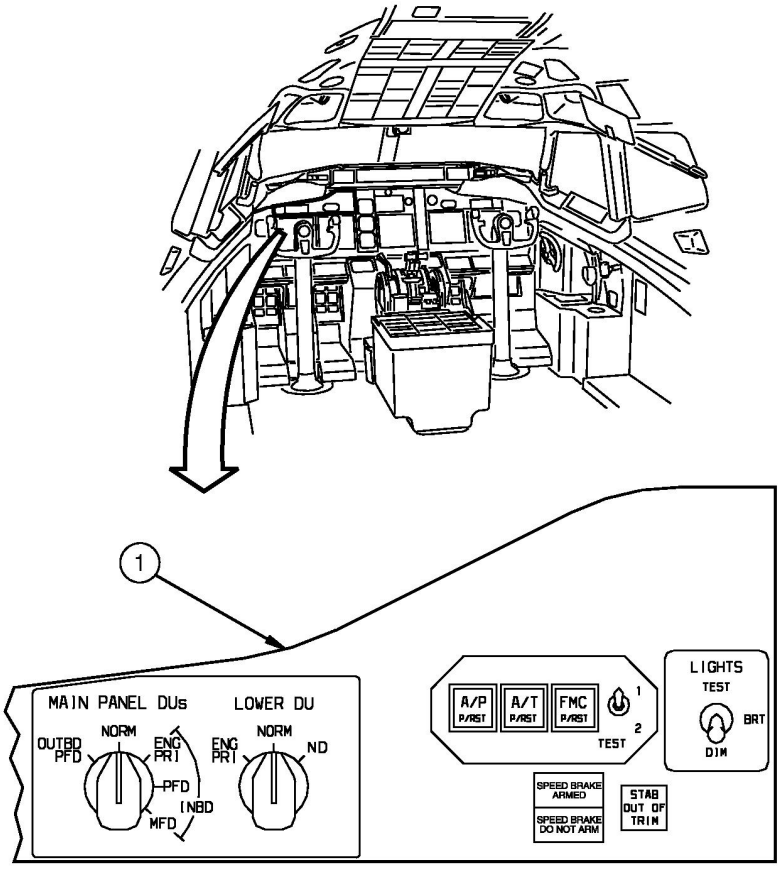
34. **Group 8-21:**
Do a Brake Accumulator Pressure Gage Installation Test to check the functionality of the brake pressure gage after the replacement of the P1-3 and P3-1 panels. Refer to 737-600/700/800/900 AMM 32-41-54 as an accepted procedure.

35. **Group 8-21:**
Put the airplane back to a serviceable condition.

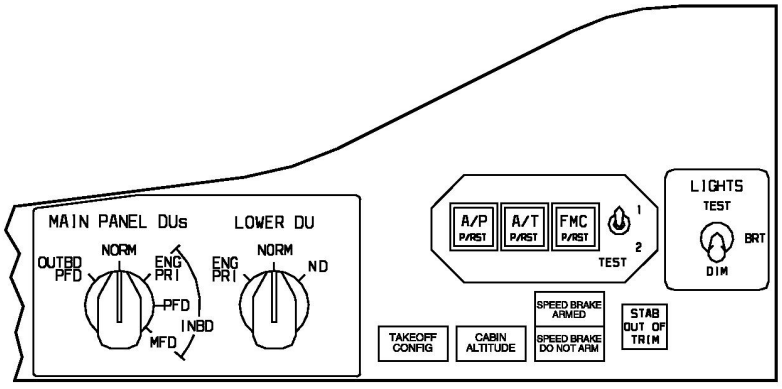
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This Figure applies only to: Group 1-6, 8-12, 16-18, 20, 22-23.



P1-3 PANEL
(TYPICAL - CONFIGURATION MAY VARY)
BEFORE MODIFICATION



P1-3 PANEL
(TYPICAL - CONFIGURATION MAY VARY)
AFTER MODIFICATION

1760931

FIGURE 1: FLIGHT COMPARTMENT - P1-3 PANEL MODIFICATION
(SHEET 1 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

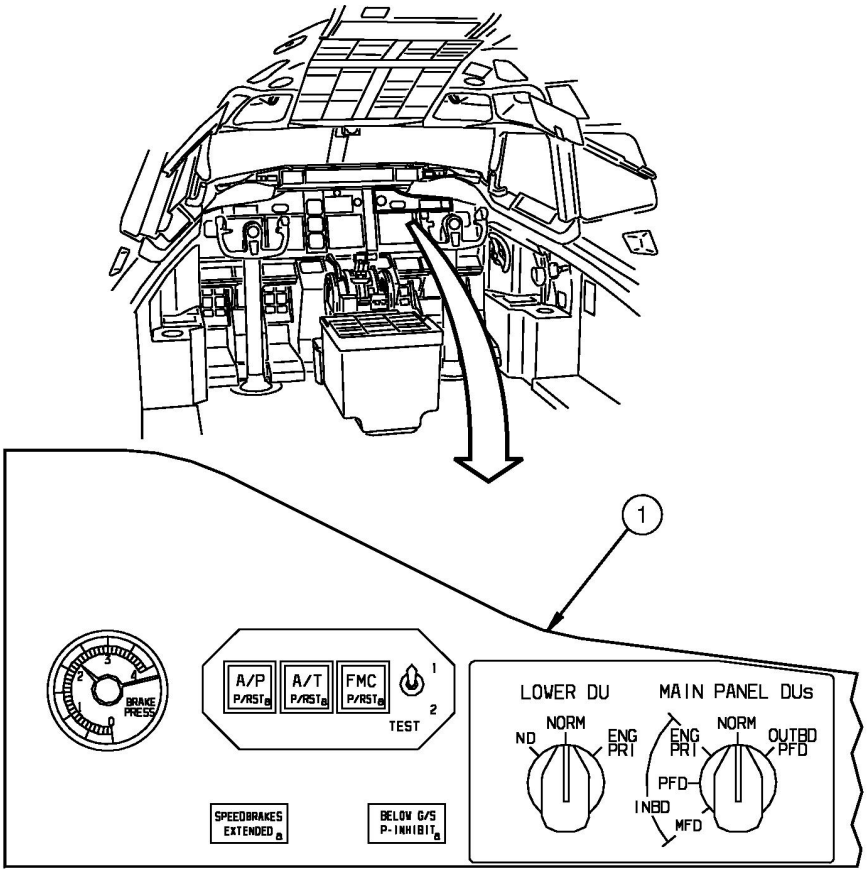
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Change	P1-3 Captain Instrument Panel	233A2221-()	1	(a) (b) (c)
(a) You can get the new part by reworking the existing part as given in BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02, BAE Systems SB 233A2221-31-03 and BAE Systems SB 233A2221-31-05 .					
(b) Part numbers for the P1-3 panel will change after installation of the two warning level indicator lights "TAKEOFF CONFIG" and "CABIN ALTITUDE". Identification instructions are given in BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02, BAE Systems SB 233A2221-31-03 and BAE Systems SB 233A2221-31-05 . Part numbers information is given in Paragraph 2.C.3., Parts Modified and Reidentified and in APPENDIX A.					
(c) Refer to OHM 31-10-01 as an accepted procedure.					

FIGURE 1: FLIGHT COMPARTMENT - P1-3 PANEL MODIFICATION (SHEET 2 OF 2)

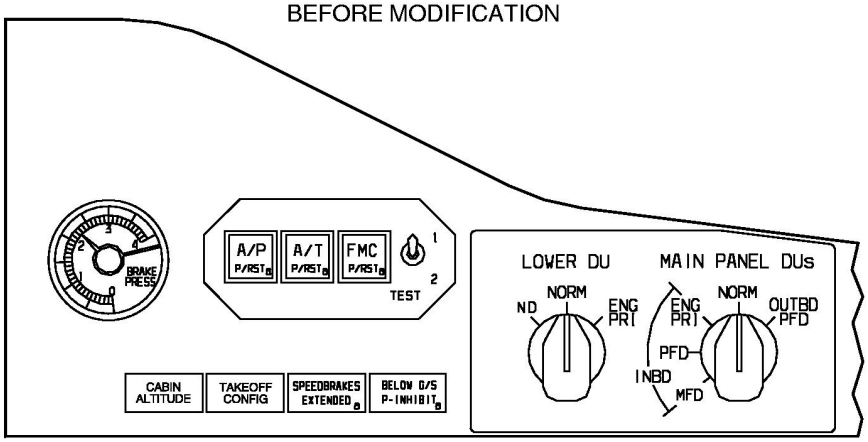
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ALERT ALERT

This Figure applies only to: Group 1-6, 8-12, 16-18, 20, 22-23.



P3-1 PANEL
(TYPICAL - CONFIGURATION MAY VARY)
BEFORE MODIFICATION



P3-1 PANEL
(TYPICAL - CONFIGURATION MAY VARY)
AFTER MODIFICATION

1760945

FIGURE 2: FLIGHT COMPARTMENT - P3-1 PANEL MODIFICATION
(SHEET 1 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

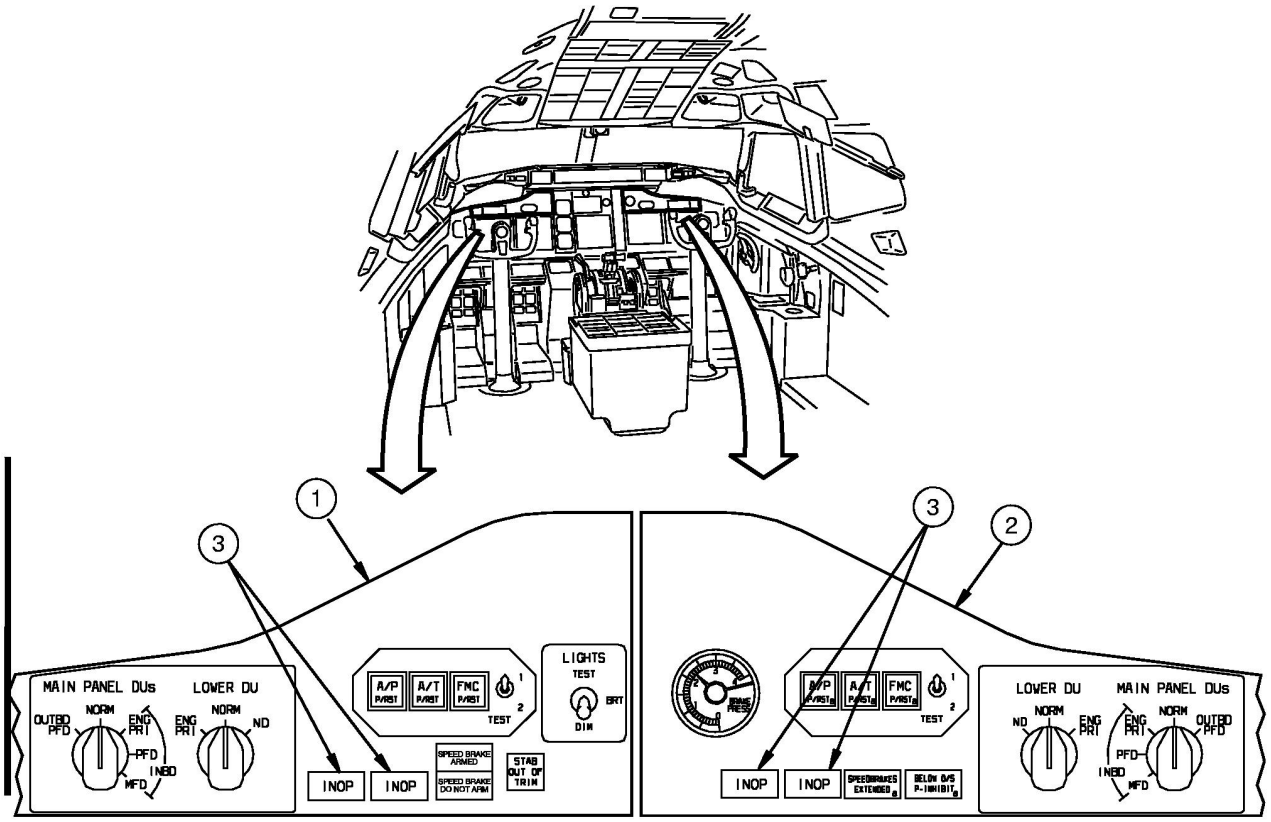
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Change	P3-1 First Officer Instrument Panel	233A2222-()	1	(a) (b) (c)
(a) You can get the new part by reworking the existing part as given in BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02, BAE Systems SB 233A2222-31-03 and BAE Systems SB 233A2222-31-05 .					
(b) Part numbers for the P3-1 panel will change after installation of the two warning level indicator lights "TAKEOFF CONFIG" and "CABIN ALTITUDE". Identification instructions are given in BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02, BAE Systems SB 233A2222-31-03 and BAE Systems SB 233A2222-31-05 .					
(c) Refer to OHM 31-10-01 as an accepted procedure.					

FIGURE 2: FLIGHT COMPARTMENT - P3-1 PANEL MODIFICATION (SHEET 2 OF 2)

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This Figure applies only to: Group 7, 13-15, 19, 21.



P1-3 PANEL
(TYPICAL - CONFIGURATION MAY VARY)

P3-1 PANEL
(TYPICAL - CONFIGURATION MAY VARY)

1760970

The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Change	P1-3 Captain Instrument Panel	233A2221-()	1	(a) (c)
2	Change	P3-1 First Officer Instrument Panel	233A2222-()	1	(b) (c)
3	Remove	INOP MARKER	BAC27DCC2769	4	

(a) as given in BAE Systems SB 233A2221-31-02.

(b) as given in BAE Systems SB 233A2222-31-02.

(c) It was found that the annunciator caps on the two new annunciators could be easily interchanged, which could cause confusion for the pilots. BAE sevice bulletins 233A2221-31-02 and 233A2222-31-02 change the P1-3 and P3-1 panels to replace the Takeoff Config annunciator light p/n 10-61803-534 (Korry p/n

FIGURE 3: FLIGHT COMPARTMENT - P1-3 AND P3-1 PANELS - PANELS MODIFICATION AND INOP MARKERS REMOVAL
(SHEET 1 OF 2)

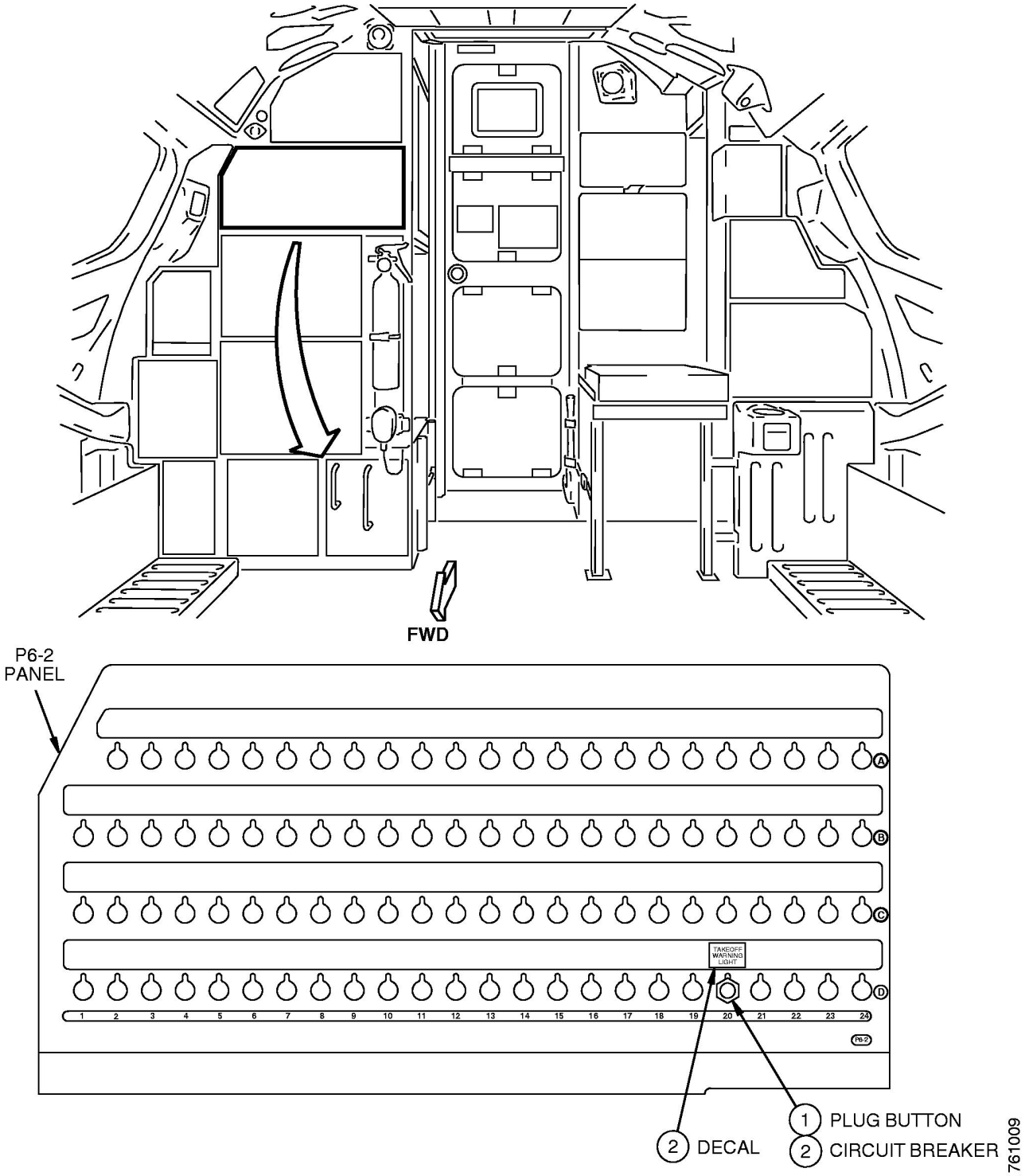
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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
318-630-1001-453) with a new annunciator p/n 10-61803-547 (Korry p/n 318-630-1001-460) that is keyed differently.					

FIGURE 3: FLIGHT COMPARTMENT - P1-3 AND P3-1 PANELS - PANELS MODIFICATION AND INOP MARKERS REMOVAL (SHEET 2 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

FIGURE 4: FLIGHT COMPARTMENT - P6-2 CIRCUIT BREAKER PANEL - C01698 CIRCUIT BREAKER INSTALLATION
(SHEET 1 OF 2)

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NOTE: Get the parts from Subkit 233A5001-38.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	PLUG BUTTON	BACP20B63B	1	
2	Install (New)	CIRCUIT BREAKER	BACC18AD2	1	
	Install (New)	DECAL, P6-2	BAC27DCC3695	1	(a)
	Install (New)	TAPE, ID	BACT19J4	2	(b) (c)
(a) Align a decal text with the C01698 circuit breaker approximately as shown. Install over the existing row D marker.					
(b) Write "C1698" on the tape. Install the tape on farside of the P6 panel. Refer to SOPM 20-50-10 as an accepted procedure.					
(c) There are more parts than are necessary.					

FIGURE 4: FLIGHT COMPARTMENT - P6-2 CIRCUIT BREAKER PANEL - C01698 CIRCUIT BREAKER INSTALLATION
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-6, 8-12, 16-18, 20, 22-23.

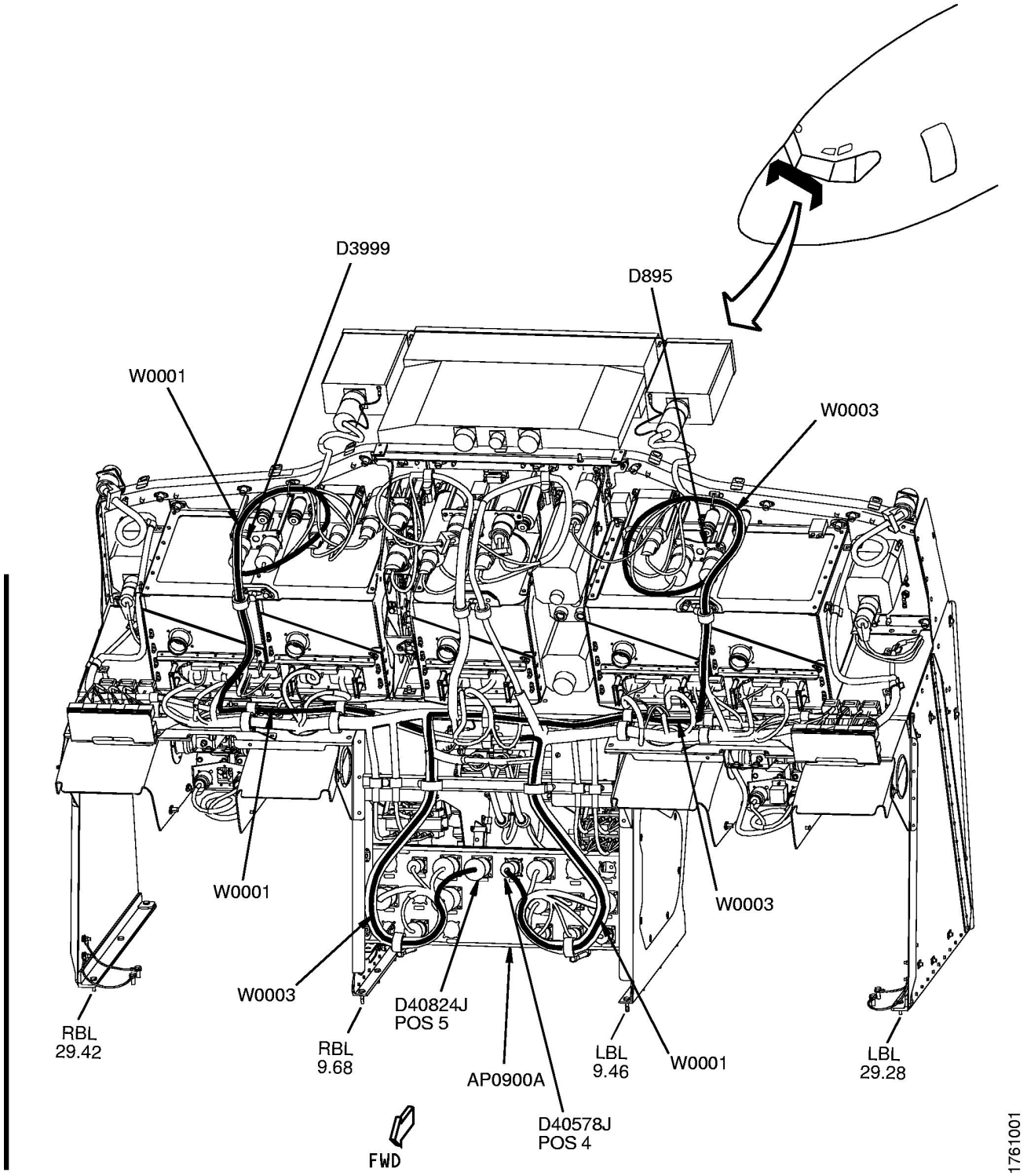
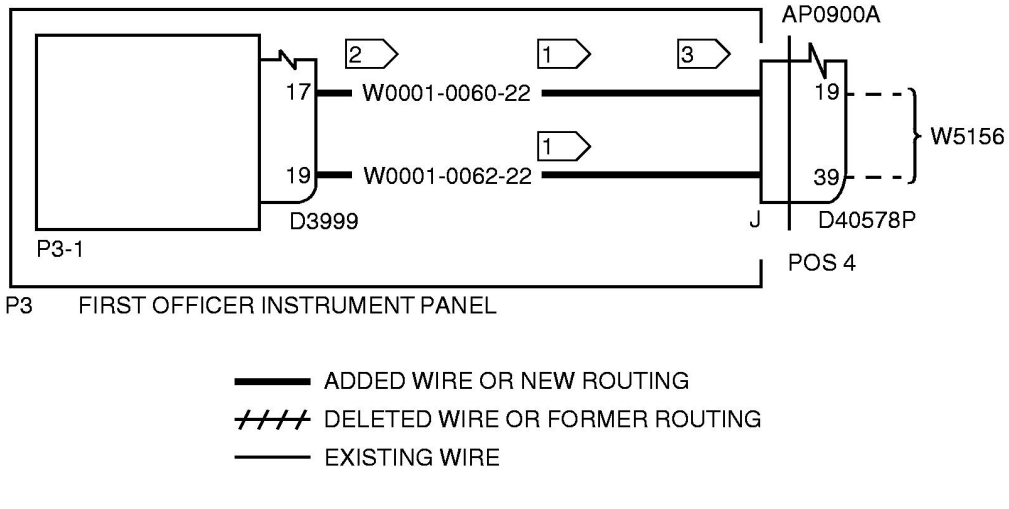


FIGURE 5: P1-3 AND P3-1 PANELS - W0001 AND W0003 WIRE BUNDLES ROUTING (SHEET 1 OF 1)

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This Figure applies only to: Group 1-3, 5-6, 8-12, 16-18, 20, 22-23.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-101.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-101W	1	(a)
	LACING TAPE	280A2001-1	1	(g)
2	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING, VIBRATION RESISTANT	BACC63CB16-24S7	1	(b)
	BACKSHELL	BACC10KD16	1	(c)
	ID TAPE - CONNECTOR	280A3143-10101	1	(d)
	CONTACT, SOCKET	BACC47CP1S	4	(b)
	SEAL PLUG	MS27488-20	20	(e) (f)
3	CONTACT, PIN	BACC47CN1S	4	(b)
(a) Identify as shown. Cut to the necessary length.				

FIGURE 6: CHANGES TO THE W0001 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-60-09 as an accepted procedure.				
(d) Install ID tape within 6 inches of connector. Refer to SWPM 20-10-11 as an accepted procedure.				
(e) Refer to SWPM 20-61-19 as an accepted procedure.				
(f) Use seal plugs to fill the unused locations in the installed connector. Refer to SWPM 20-60-08 as an accepted procedure.				
(g) Refer to SWPM 20-10-19 as an accepted procedure.				

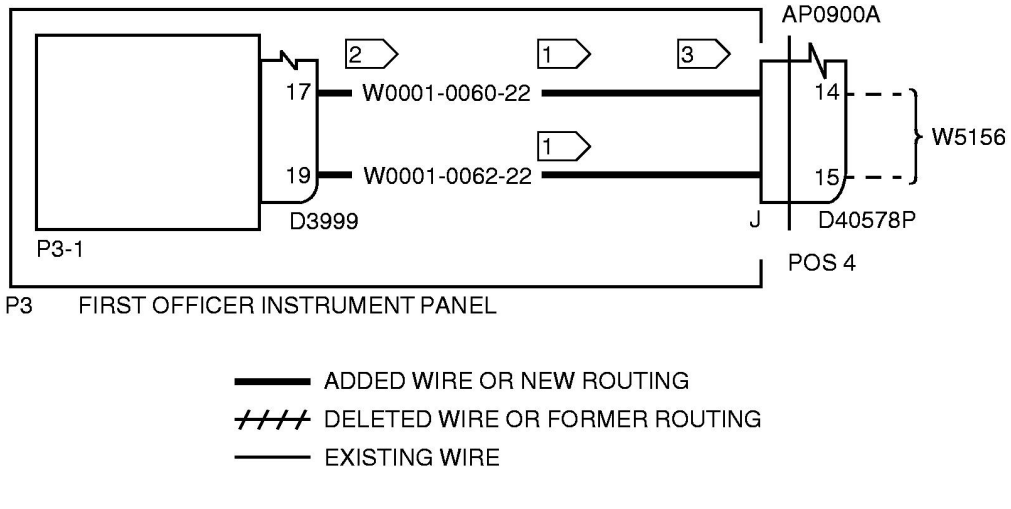
WIRE LIST - CUT AND CODE AS REQUIRED -101W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0001	0060	22	PA	220	BMS 13-48, TYPE 10, CLASS 1
W0001	0062	22	PA	220	BMS 13-48, TYPE 10, CLASS 1

FIGURE 6: CHANGES TO THE W0001 WIRE BUNDLE
(SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 4.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-101.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-101W	1	(a)
	LACING TAPE	280A2001-1	1	(g)
2	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, BAYONET COUPLING, VIBRATION RESISTANT	BACC63CB16-24S7	1	(b)
	BACKSHELL	BACC10KD16	1	(c)
	ID TAPE - CONNECTOR	280A3143-10101	1	(d)
	CONTACT, SOCKET	BACC47CP1S	4	(b)
	SEAL PLUG	MS27488-20	20	(e) (f)
3	CONTACT, PIN	BACC47CN1S	4	(b)
(a) Identify as shown. Cut to the necessary length.				

FIGURE 7: CHANGES TO THE W0001 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-60-09 as an accepted procedure.				
(d) Install ID tape within 6 inches of connector. Refer to SWPM 20-10-11 as an accepted procedure.				
(e) Refer to SWPM 20-61-19 as an accepted procedure.				
(f) Use seal plugs to fill the unused locations in the installed connector. Refer to SWPM 20-60-08 as an accepted procedure.				
(g) Refer to SWPM 20-10-19 as an accepted procedure.				

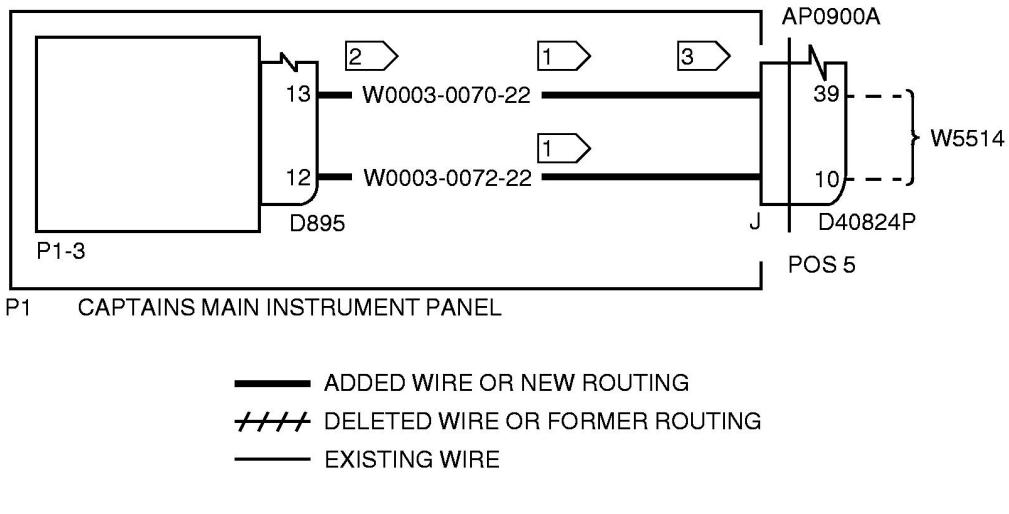
WIRE LIST - CUT AND CODE AS REQUIRED -101W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0001	0060	22	PA	220	BMS 13-48, TYPE 10, CLASS 1
W0001	0062	22	PA	220	BMS 13-48, TYPE 10, CLASS 1

FIGURE 7: CHANGES TO THE W0001 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-6, 8-12, 16-18, 20, 22-23.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-102.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-102W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
	ID TAPE - CONNECTOR	280A3143-10201	1	(c)
3	CONTACT, PIN	BACC47CN1S	4	(b)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Install ID tape within 6 inches of connector. Refer to SWPM 20-10-11 as an accepted procedure.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 8: CHANGES TO THE W0003 WIRE BUNDLE (SHEET 1 OF 2)

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WIRE LIST - CUT AND CODE AS REQUIRED -102W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0003	0070	22	PA	220	BMS 13-48, TYPE 10, CLASS 1
W0003	0072	22	PA	220	BMS 13-48, TYPE 10, CLASS 1

FIGURE 8: CHANGES TO THE W0003 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-6, 22-23.

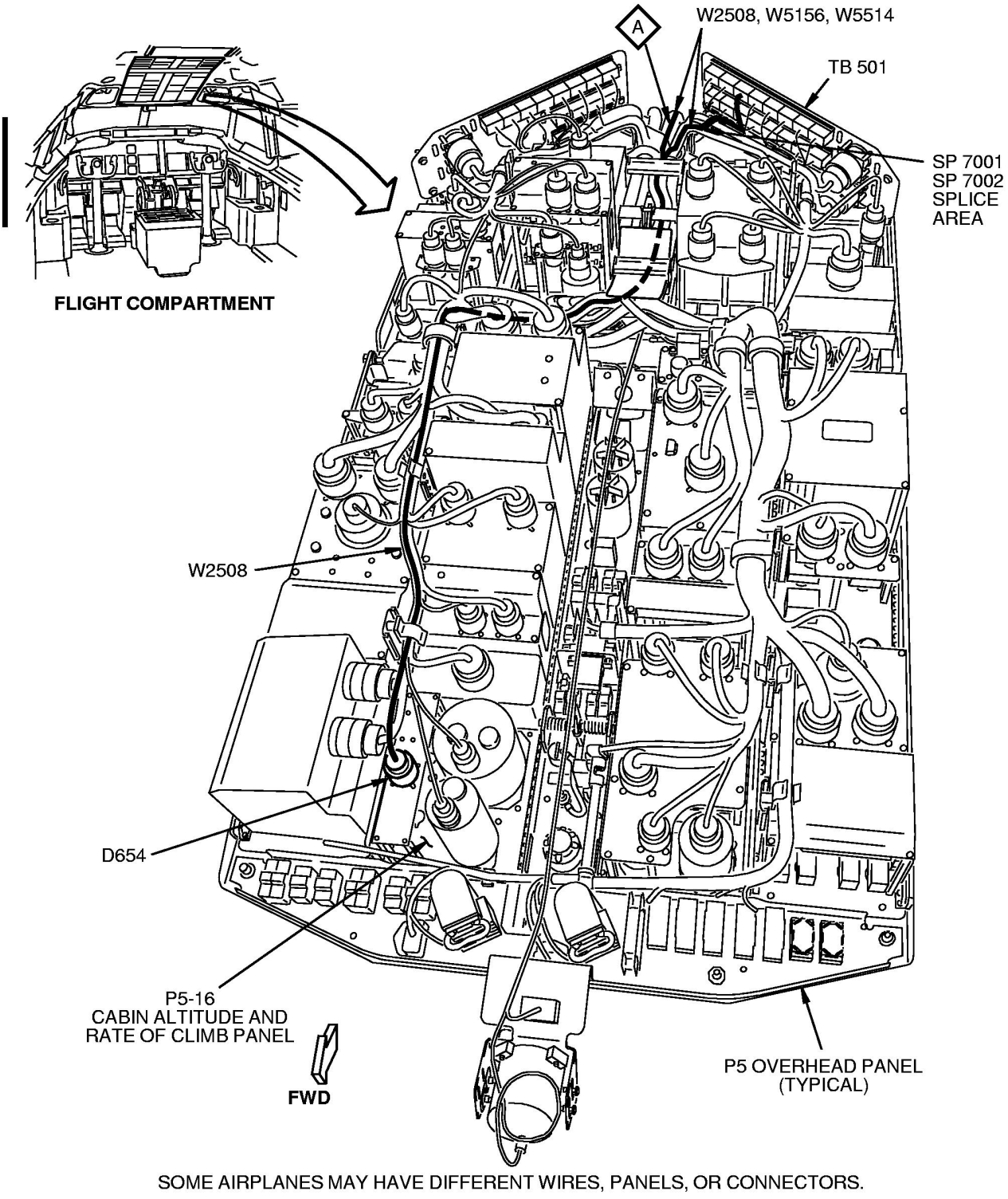


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 1 OF 10)

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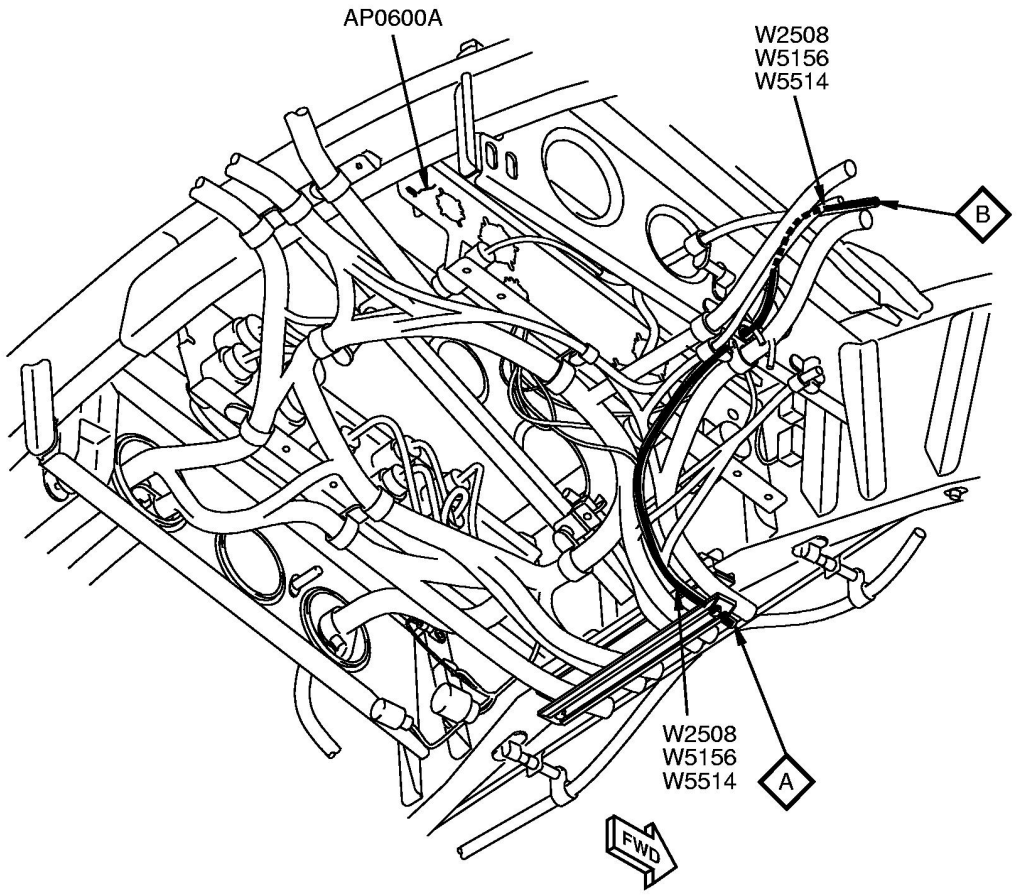


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 2 OF 10)

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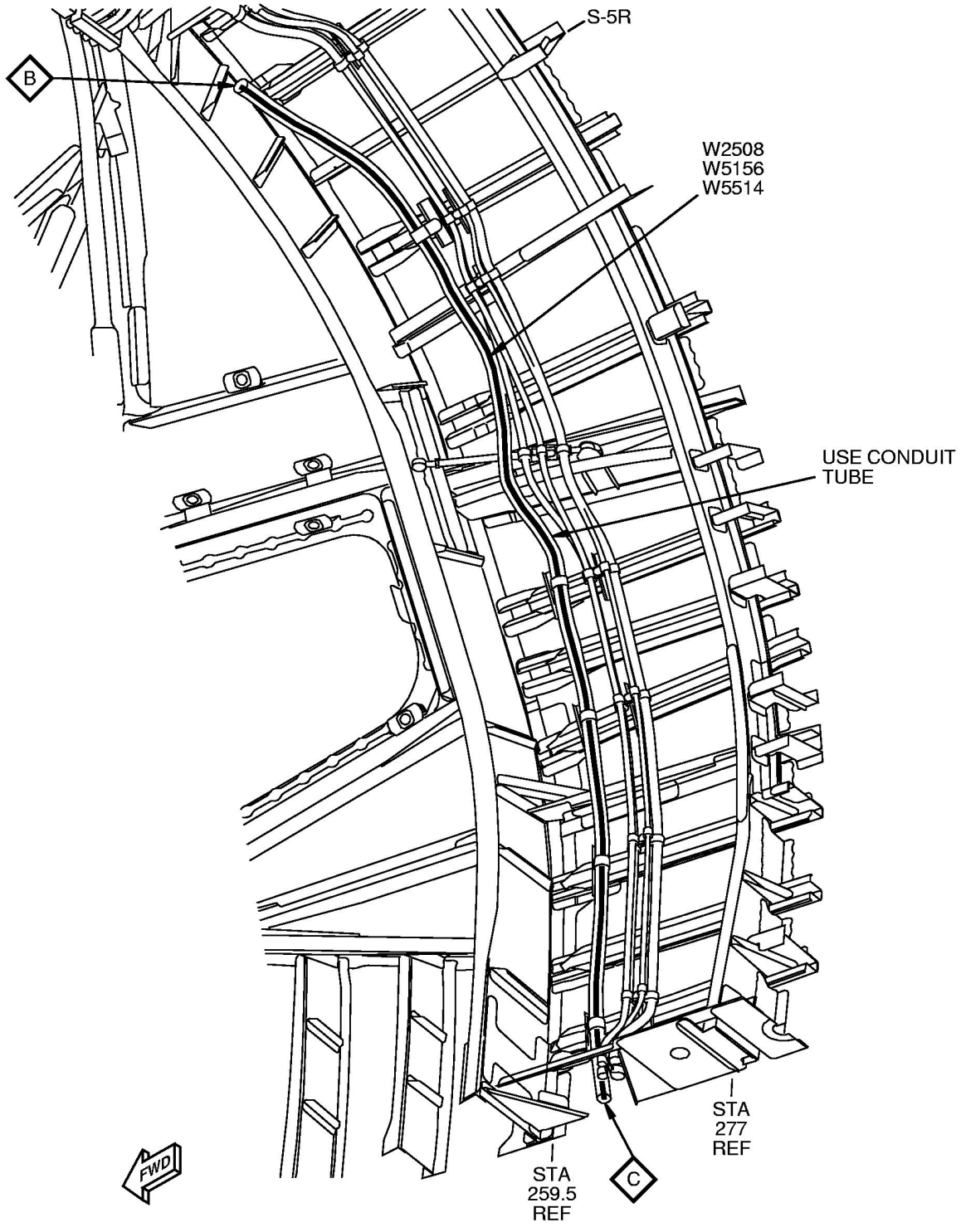


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 3 OF 10)

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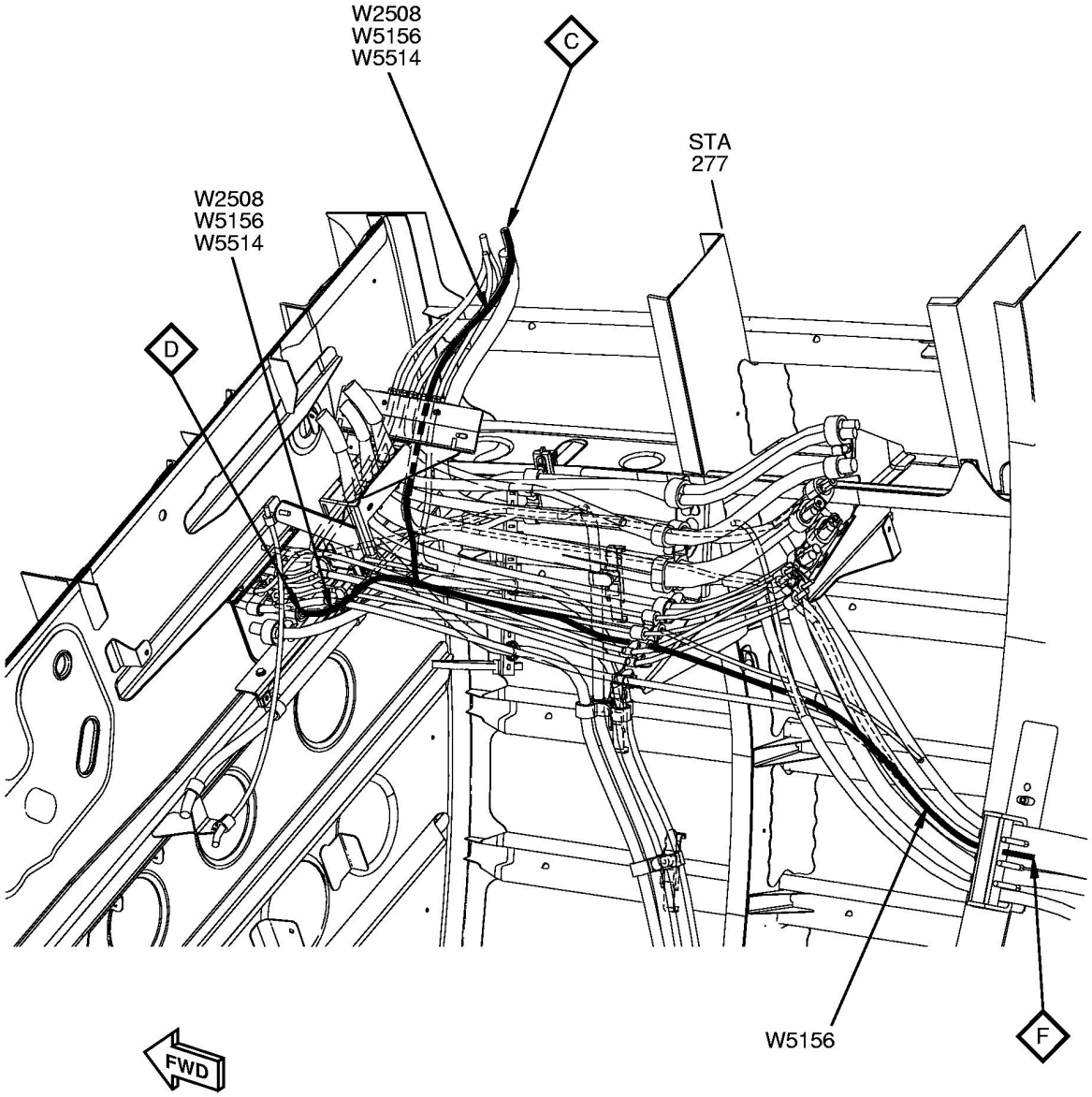
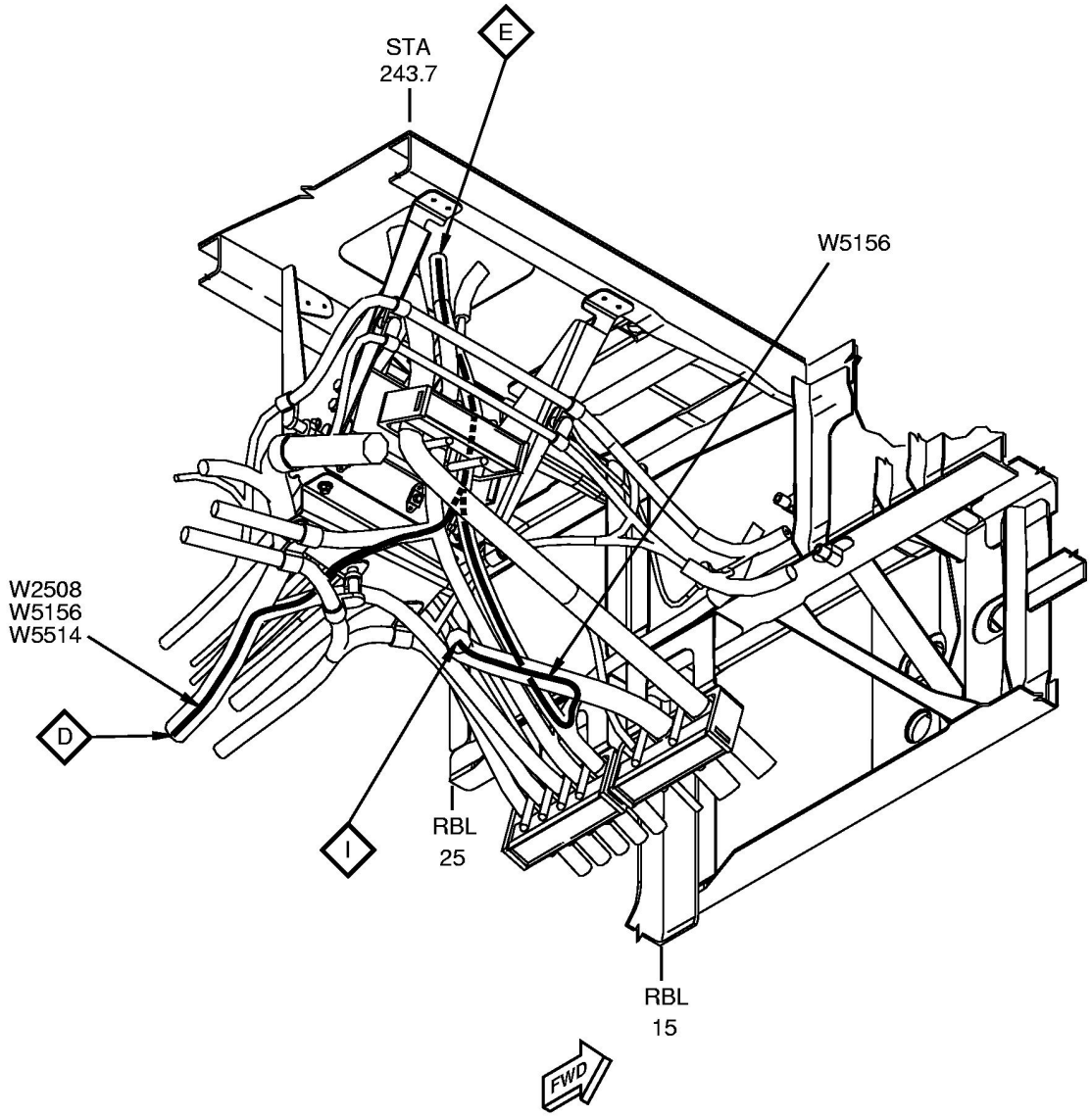


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 4 OF 10)

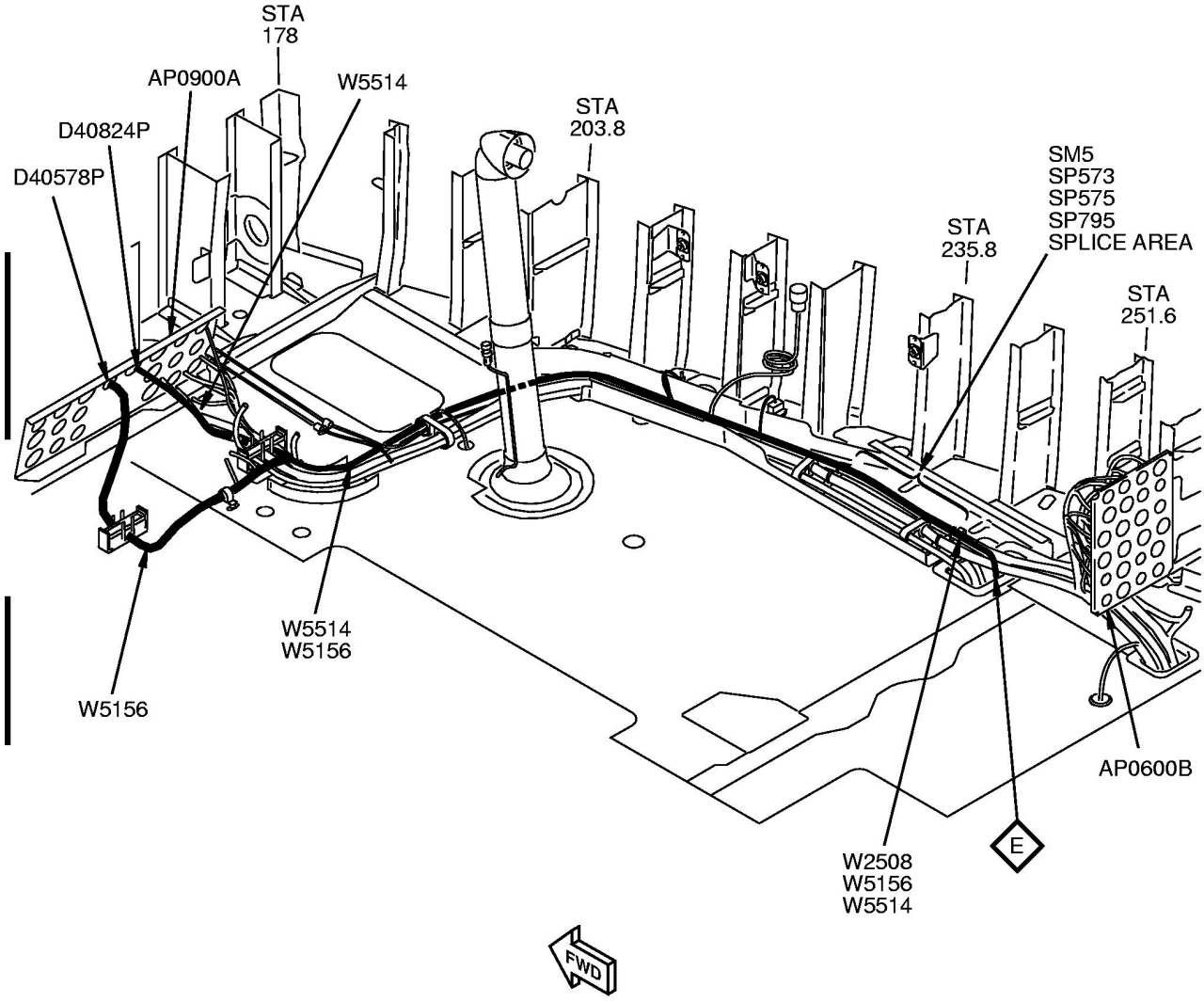
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FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 5 OF 10)

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RIGHT SIDE FLIGHT DECK FLOOR
STA 203.8 - STA 271

1843581

FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 6 OF 10)

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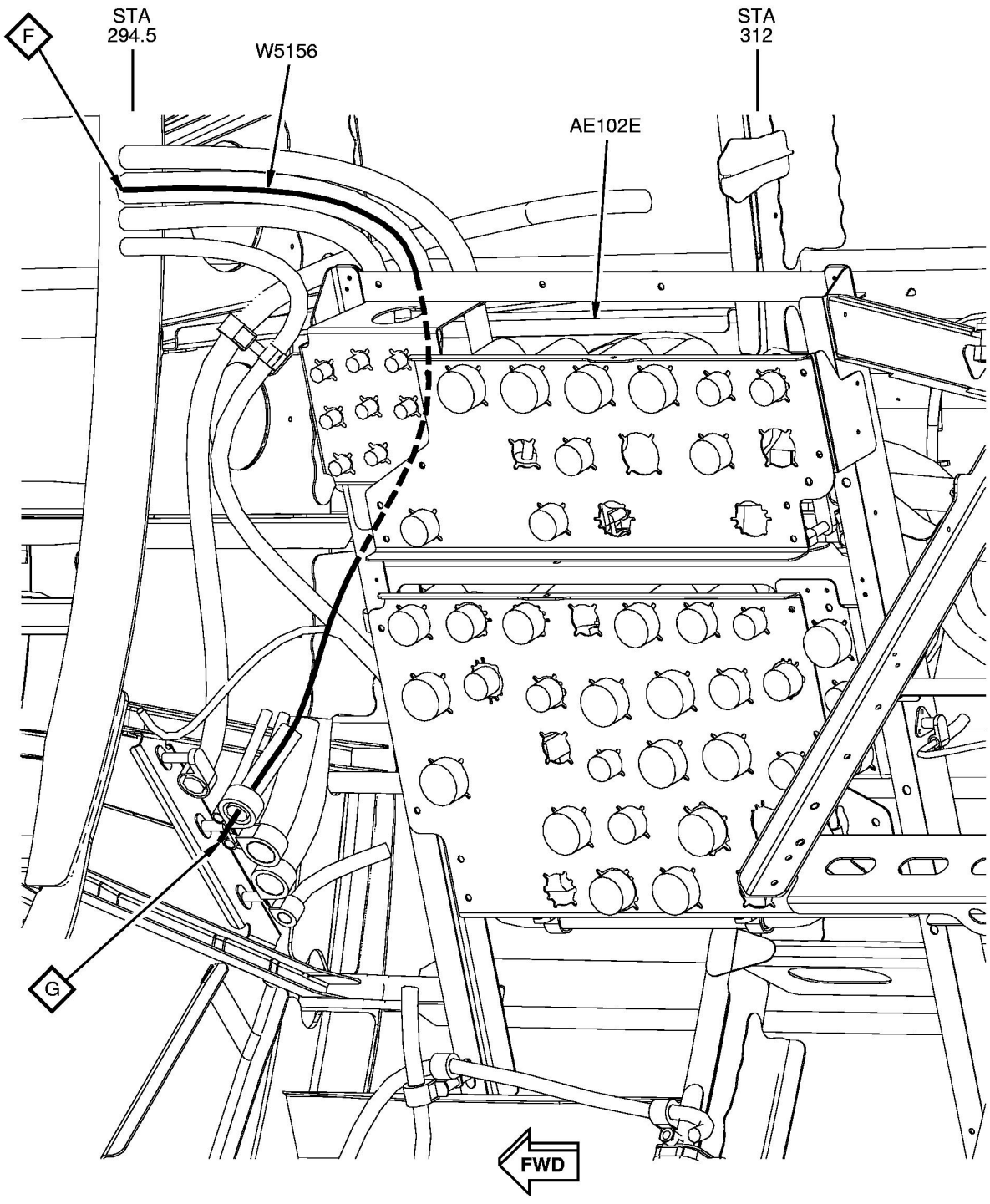


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 7 OF 10)

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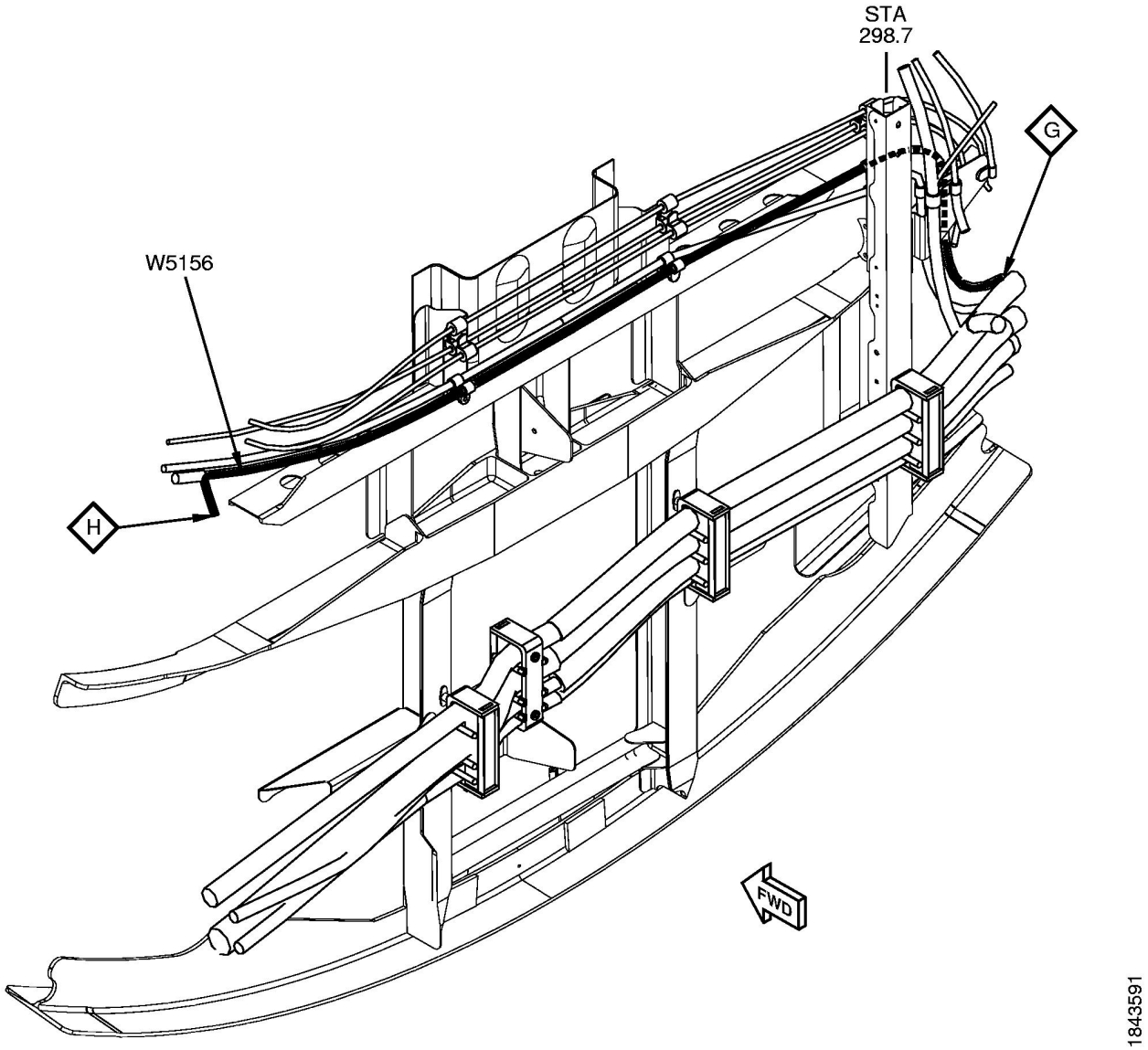


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 8 OF 10)

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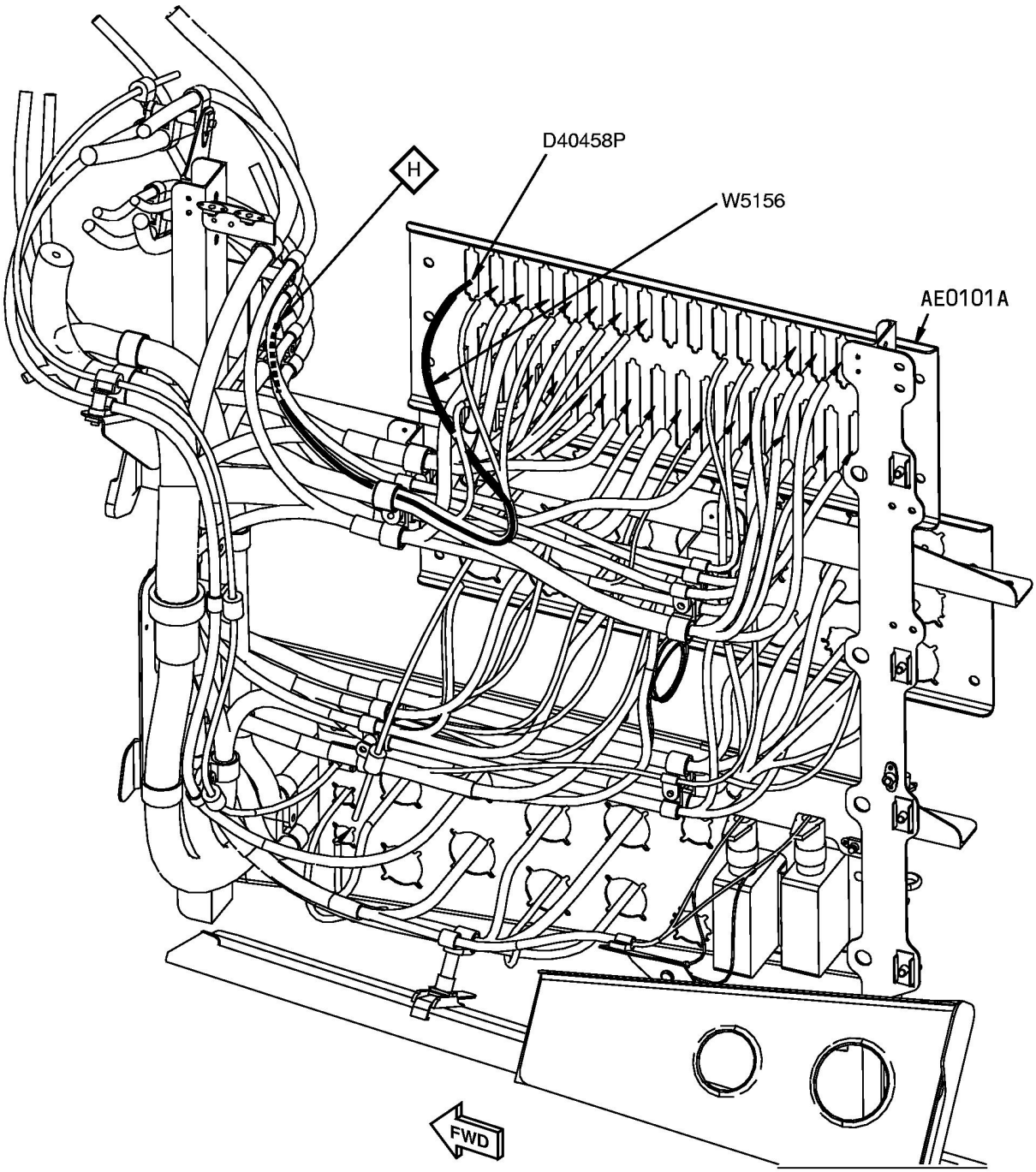


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 9 OF 10)

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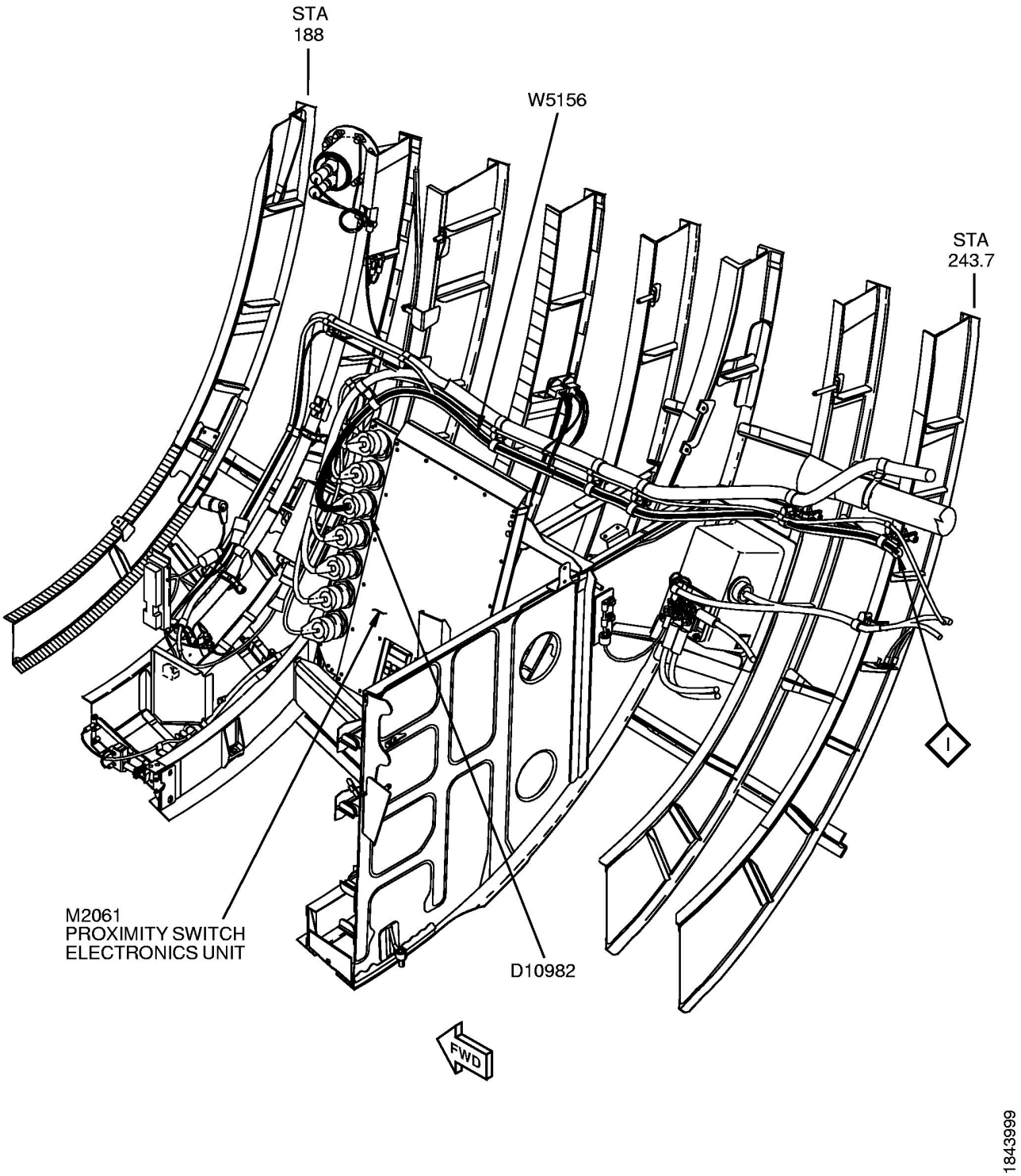
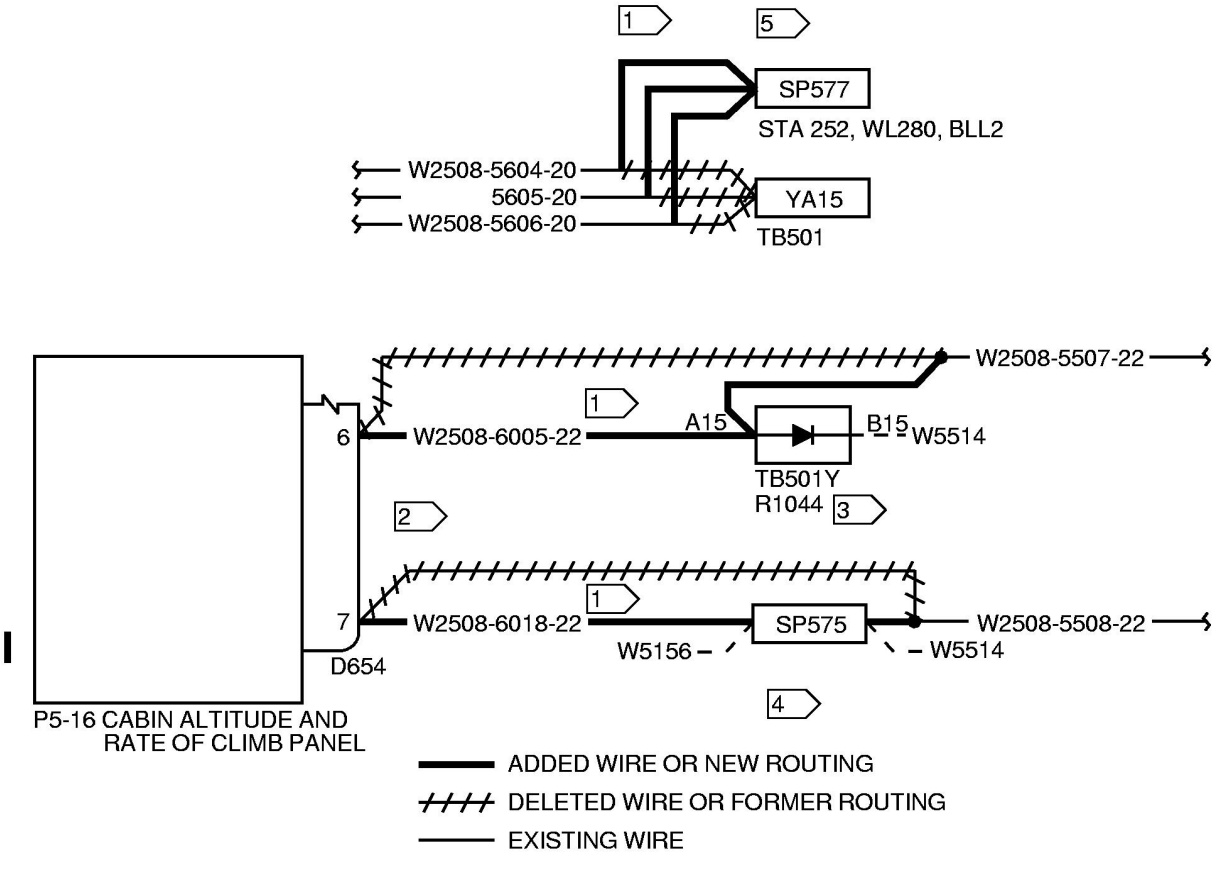


FIGURE 9: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 10 OF 10)

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This Figure applies only to: Group 5.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-103.

NOTE: If an operator is accomplishing service bulletins 737-21-1165 and 737-31A1332 concurrently, wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22 do not need to be installed as shown in this Figure. This is because Figure 20 of service bulletin 737-21-1165 provides new wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-103W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)

FIGURE 10: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
3	TERMINAL MODULE	S280W555-104	1	(c)
	TERMINAL MODULE	S280W555-751	1	(c)
	CONTACT, PIN, SIZE 20	S280W555-920	8	(c)
	ID Tape - Terminal Block Module	280A3143-10301	1	(d)
4	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10302	1	
5	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10303	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Install ID tape within 6 inches of equipment.				
(e) Refer to SWPM 20-30-12 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

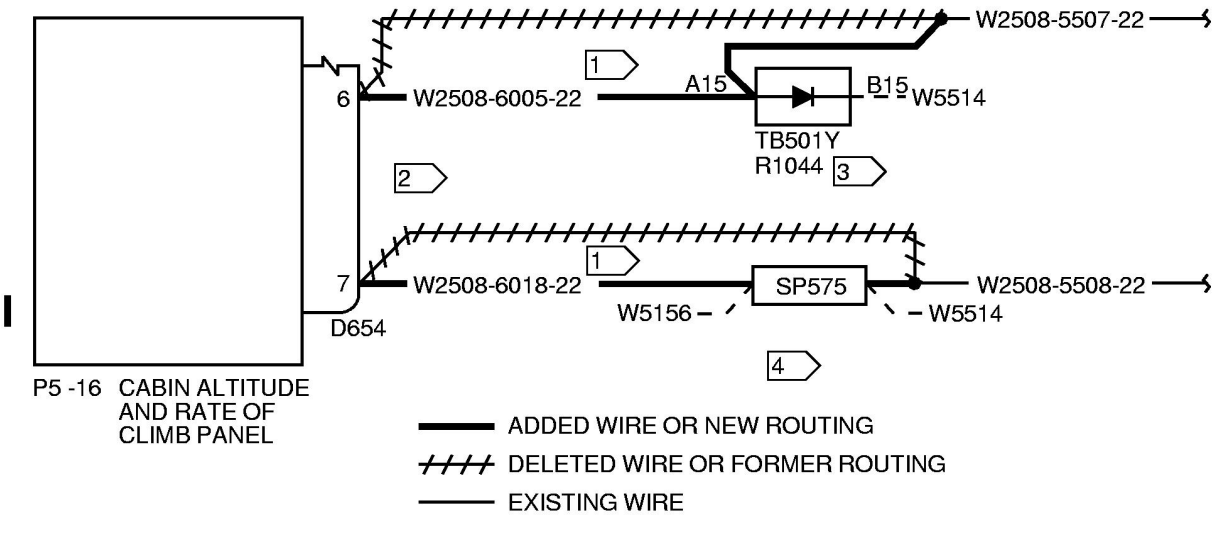
WIRE LIST - CUT AND CODE AS REQUIRED -103W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1

FIGURE 10: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-4, 6, 22-23.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-103.

NOTE: If an operator is accomplishing service bulletins 737-21-1165 and 737-31A1332 concurrently, wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22 do not need to be installed as shown in this Figure. This is because Figure 20 of service bulletin 737-21-1165 provides new wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-103W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
3	TERMINAL MODULE	S280W555-104	1	(c)
	TERMINAL MODULE	S280W555-751	1	(c)
	CONTACT, PIN, SIZE 20	S280W555-920	8	(c)
	ID Tape - Terminal Block Module	280A3143-10301	1	(d)
4	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10302	1	

FIGURE 11: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Install ID tape within 6 inches of equipment.				
(e) Refer to SWPM 20-30-12 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -103W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1

FIGURE 11: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-2, 5-6, 17-18, 20, 22-23.

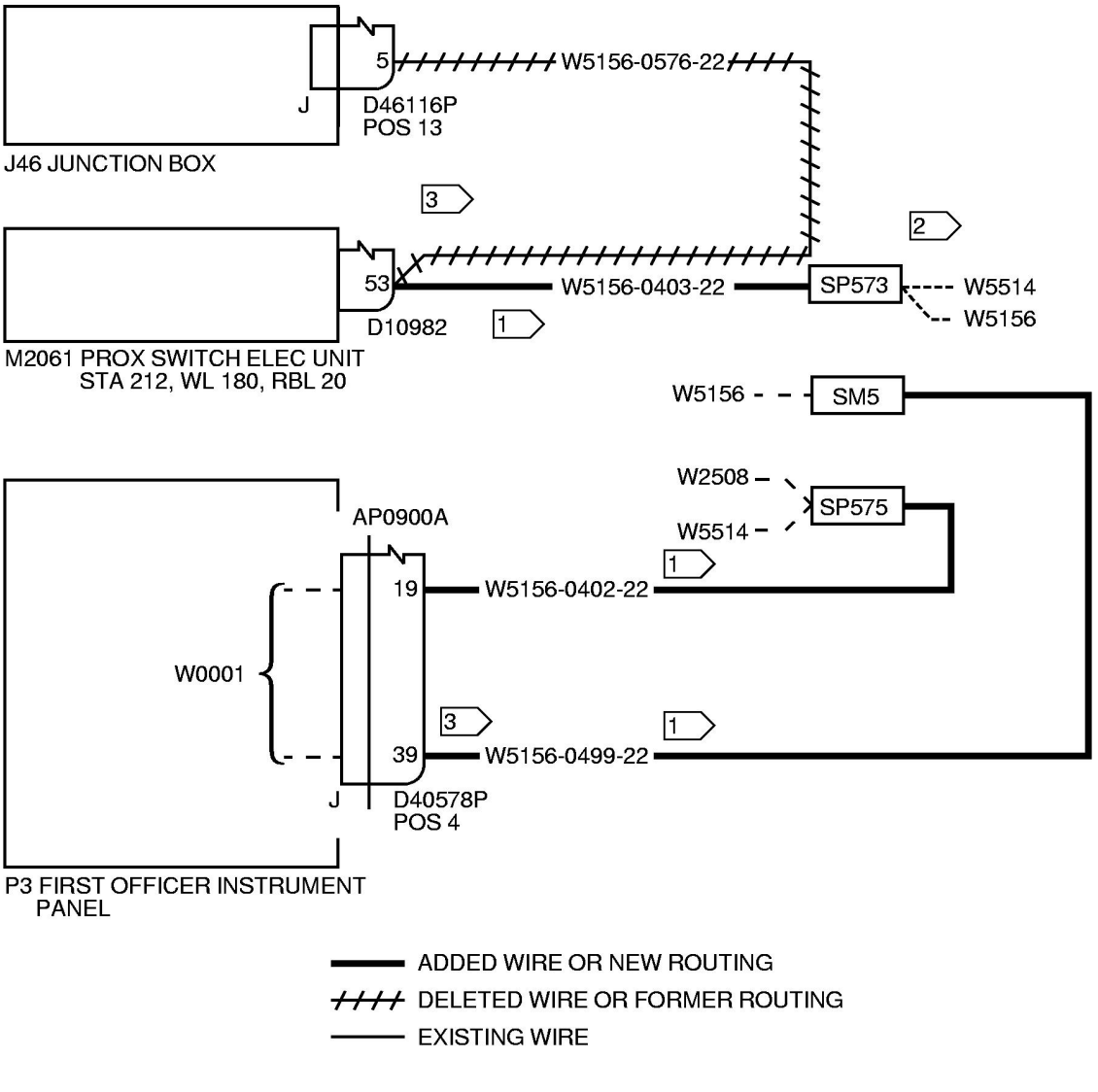
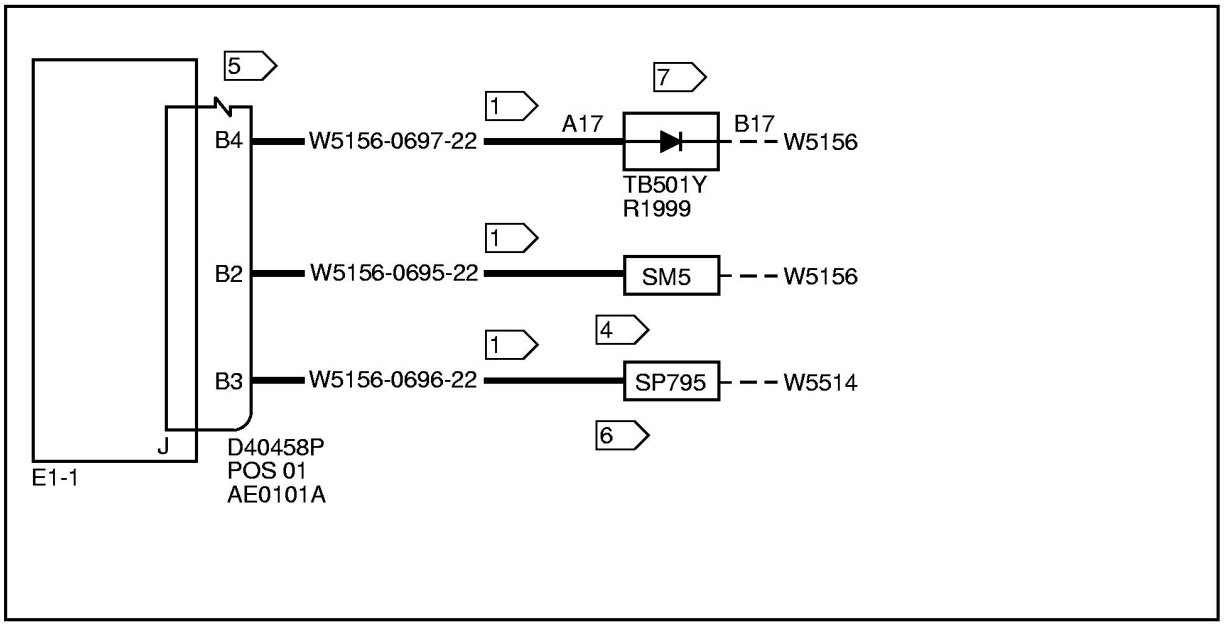
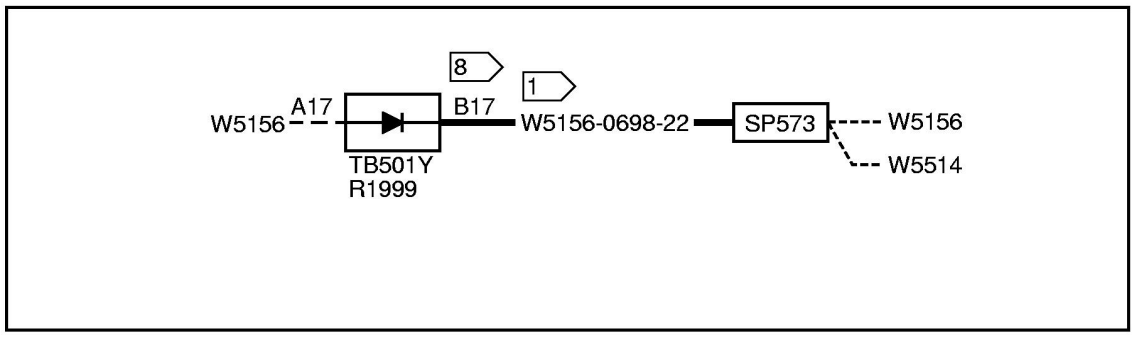


FIGURE 12: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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1823159



1823160

REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

FIGURE 12: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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NOTE: Get the parts from Wire Kits 280A3143-104, 280A3143-110, 280A3143-115 and 280A3143-118.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-104W	1	(a)
	Wire List for W5156.	280A3143-110W	1	(a) (f)
	Wire List for W5156	280A3143-118W	1	(f)
	Wire List for W5156.	280A3143-115W	-	(a)
	LACING TAPE	280A2001-1	1	(g)
2	SPLICE - SEALING SLEEVE	D-436-59	2	(b)
	spice id	280A3143-10401	1	
3	CONTACT, SOCKET	BACC47CP1S	6	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
5	CONTACT, PIN, SIZE 20	CTA-0166	4	(d)
6	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
7	TERMINAL MODULE	S280W555-104	1	(e)
	TERMINAL MODULE	S280W555-751	1	(e)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
	ID Tape - Terminal Block Module	280A3143-11001	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)

(a) Identify as shown. Cut to the necessary length.

(b) Refer to SWPM 20-30-12 as an accepted procedure.

(c) Refer to SWPM 20-61-11 as an accepted procedure.

(d) Refer to SWPM 20-74-11 as an accepted procedure.

(e) Refer to SWPM 20-90-15 as an accepted procedure.

FIGURE 12: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 3 OF 4)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(f) Get the W5156-0695-22 and W5156-0696-22 wires from the wire kit 280A3143-118. It was found during validation that the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 were too short for routing.				
(g) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -104W, -110W, -115W, -118W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0402	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W5156	0499	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
W5156	0403	22	CQ	140	BMS 13-58, TYPE 1, CLASS 1
W5156	0695 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0696 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0698	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
(a) Get this wire from the wire kit 280A3143-118. It replaces the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 because they were too short for routing.					

FIGURE 12: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 3.

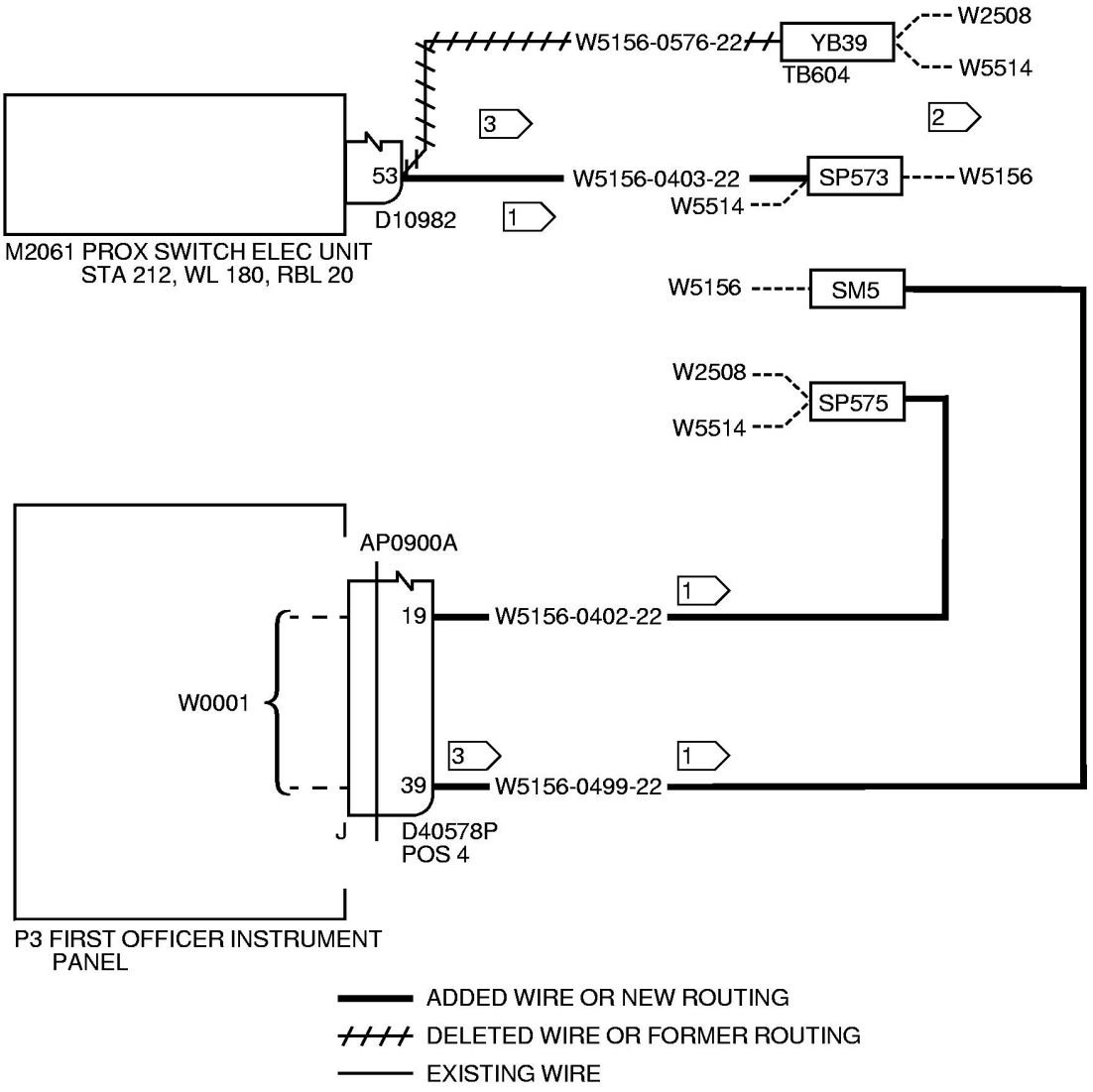
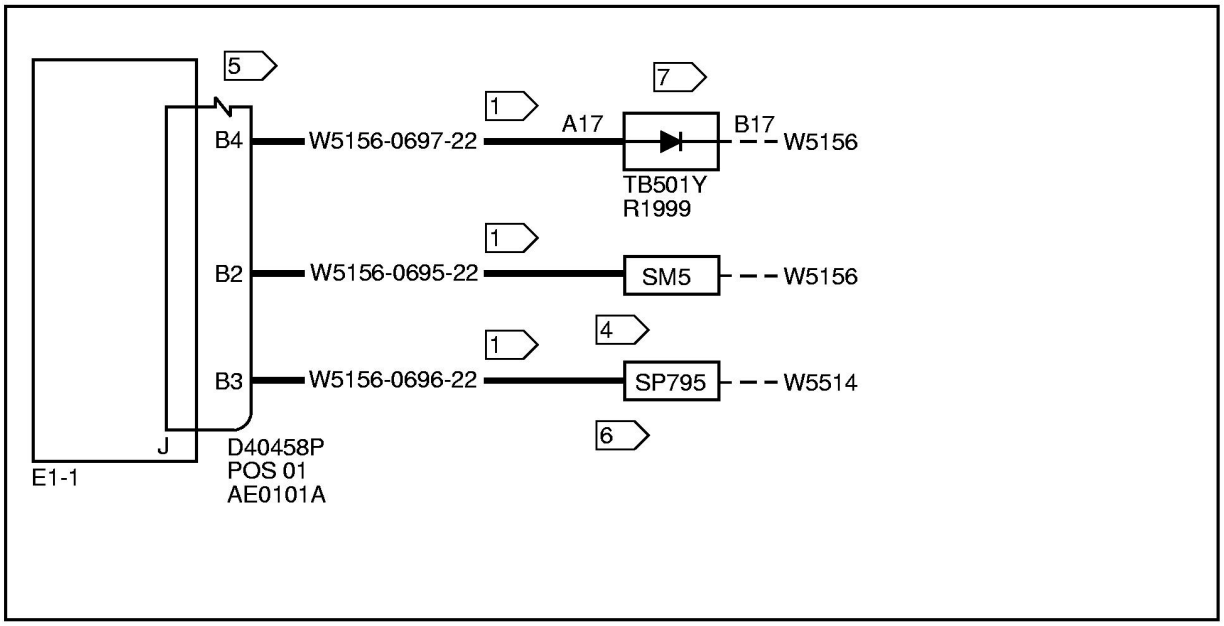
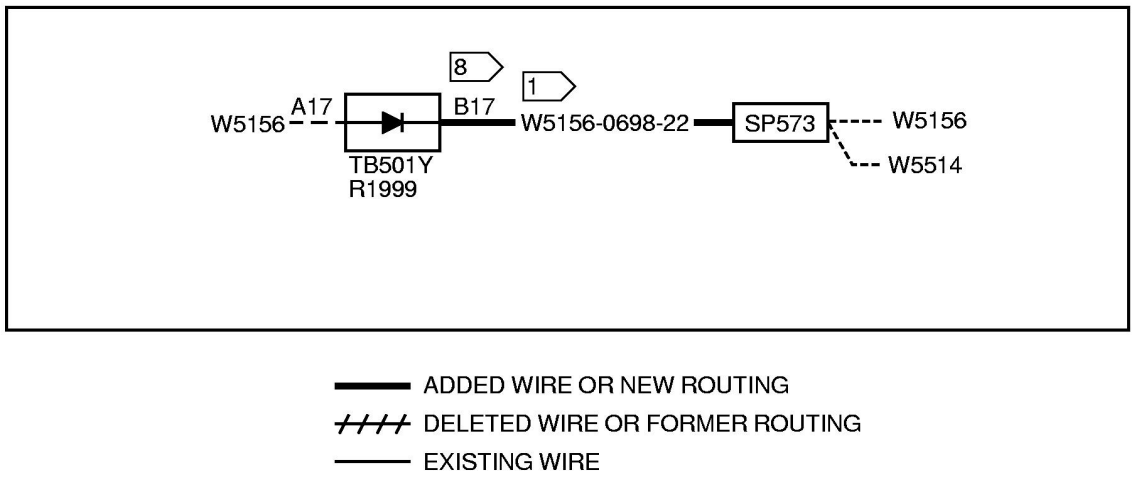


FIGURE 13: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

FIGURE 13: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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NOTE: Get the parts from Wire Kits 280A3143-104, 280A3143-110, 280A3143-115 and 280A3143-118.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-104W	1	(a)
	Wire List for W5156.	280A3143-110W	1	(a) (f)
	Wire List for W5156	280A3143-118W	1	(f)
	Wire List for W5156.	280A3143-115W	-	(a)
	LACING TAPE	280A2001-1	1	(g)
2	SPLICE - SEALING SLEEVE	D-436-59	2	(b)
	spice id	280A3143-10401	1	
3	CONTACT, SOCKET	BACC47CP1S	6	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
5	CONTACT, PIN, SIZE 20	CTA-0166	4	(d)
6	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
7	TERMINAL MODULE	S280W555-104	1	(e)
	TERMINAL MODULE	S280W555-751	1	(e)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
	ID Tape - Terminal Block Module	280A3143-11001	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)

(a) Identify as shown. Cut to the necessary length.

(b) Refer to SWPM 20-30-12 as an accepted procedure.

(c) Refer to SWPM 20-61-11 as an accepted procedure.

(d) Refer to SWPM 20-74-11 as an accepted procedure.

(e) Refer to SWPM 20-90-15 as an accepted procedure.

FIGURE 13: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 3 OF 4)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(f) Get the W5156-0695-22 and W5156-0696-22 wires from the wire kit 280A3143-118. It was found during validation that the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 were too short for routing.				
(g) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -104W, -110W, -115W, -118W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0402	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W5156	0499	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
W5156	0403	22	CQ	140	BMS 13-58, TYPE 1, CLASS 1
W5156	0695 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0696 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0698	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
(a) Get this wire from the wire kit 280A3143-118. It replaces the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 because they were too short for routing.					

FIGURE 13: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 4.

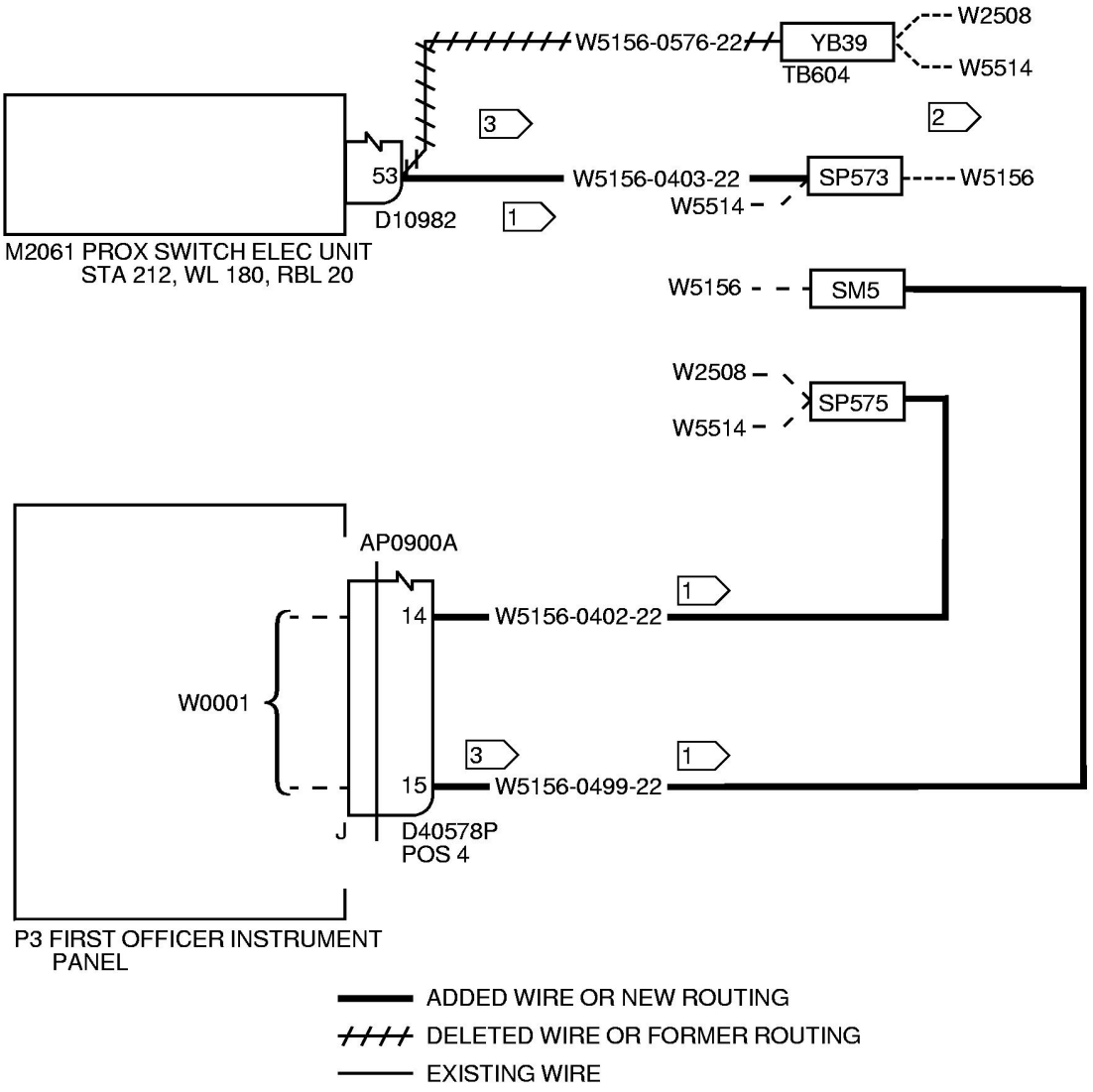
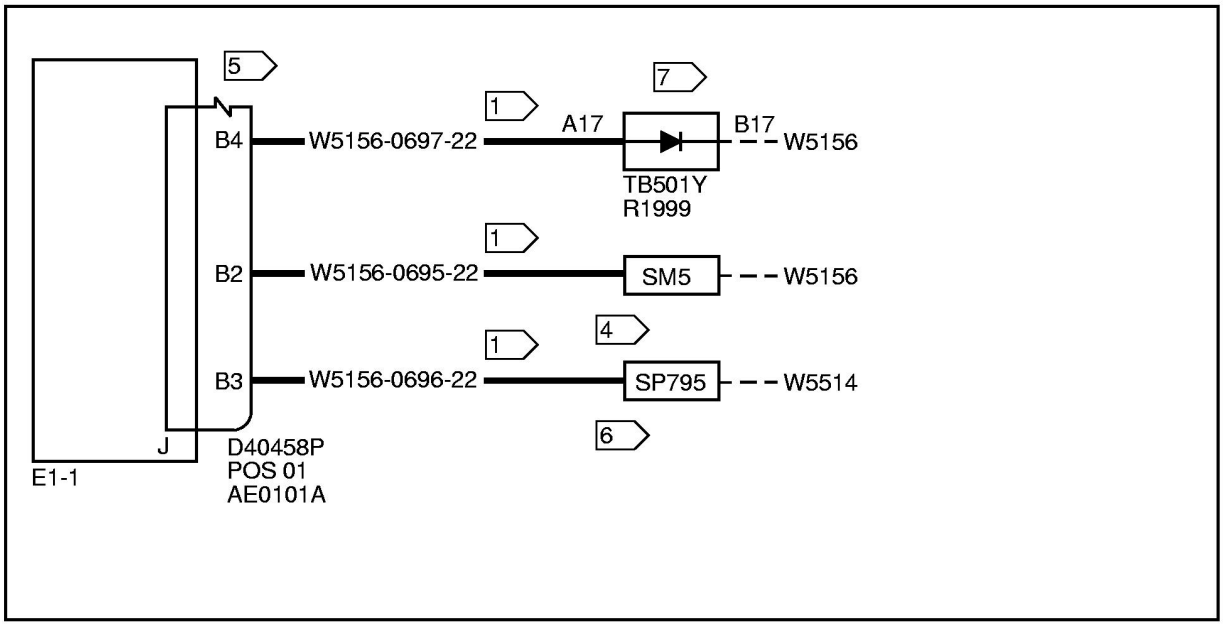
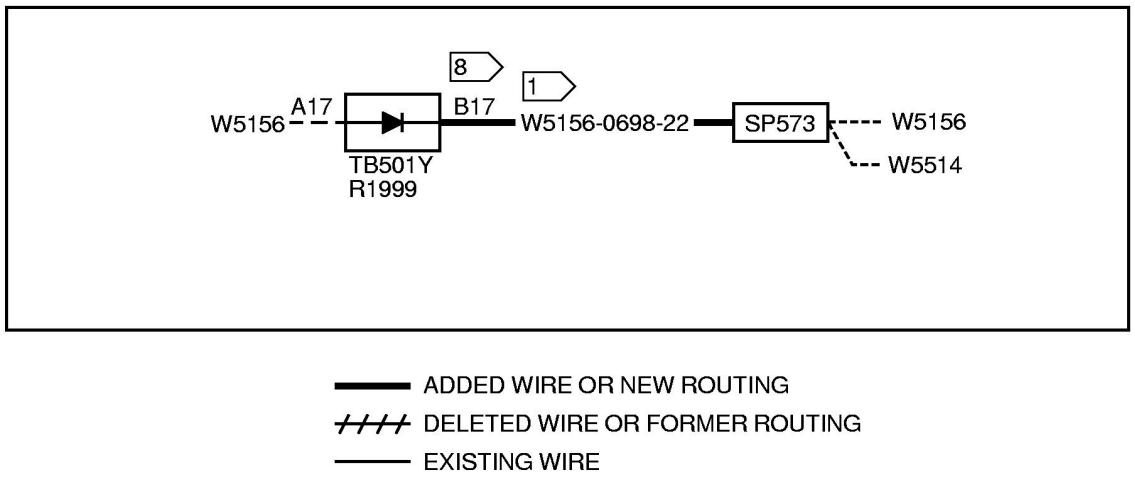


FIGURE 14: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

FIGURE 14: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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NOTE: Get the parts from Wire Kits 280A3143-104, 280A3143-110, 280A3143-115 and 280A3143-118.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-104W	1	(a)
	Wire List for W5156.	280A3143-110W	1	(a) (f)
	Wire List for W5156	280A3143-118W	1	(f)
	Wire List for W5156.	280A3143-115W	-	(a)
	LACING TAPE	280A2001-1	1	(g)
2	SPLICE - SEALING SLEEVE	D-436-59	2	(b)
	spice id	280A3143-10401	1	
3	CONTACT, SOCKET	BACC47CP1S	6	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
5	CONTACT, PIN, SIZE 20	CTA-0166	4	(d)
6	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
7	TERMINAL MODULE	S280W555-104	1	(e)
	TERMINAL MODULE	S280W555-751	1	(e)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
	ID Tape - Terminal Block Module	280A3143-11001	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)

(a) Identify as shown. Cut to the necessary length.

(b) Refer to SWPM 20-30-12 as an accepted procedure.

(c) Refer to SWPM 20-61-11 as an accepted procedure.

(d) Refer to SWPM 20-74-11 as an accepted procedure.

(e) Refer to SWPM 20-90-15 as an accepted procedure.

FIGURE 14: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 3 OF 4)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(f) Get the W5156-0695-22 and W5156-0696-22 wires from the wire kit 280A3143-118. It was found during validation that the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 were too short for routing.				
(g) Refer to SWPM 20-10-19 as an accepted procedure.				

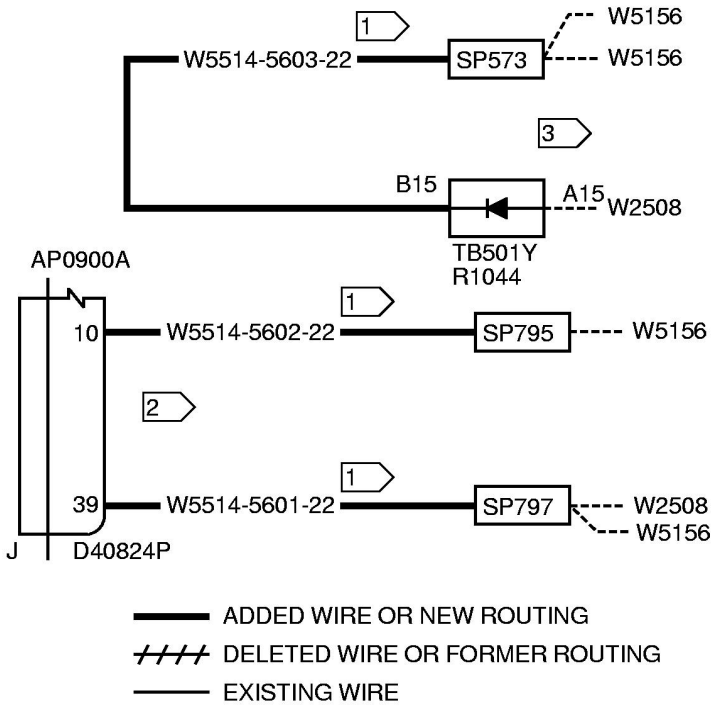
WIRE LIST - CUT AND CODE AS REQUIRED -104W, -110W, -115W, -118W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0402	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W5156	0499	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
W5156	0403	22	CQ	140	BMS 13-58, TYPE 1, CLASS 1
W5156	0695 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0696 (a)	22	CQ	240	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0698	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
(a) Get this wire from the wire kit 280A3143-118. It replaces the W5156-0695-22 and W5156-0696-22 wires included in the wire kit 280A3143-110 because they were too short for routing.					

FIGURE 14: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 1-6, 22-23.



1761854

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

NOTE: Get the parts from Wire Kit 280A3143-105.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-105W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
3	CONTACT, PIN, SIZE 20	S280W555-920	4	(c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 15: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 1 OF 2)

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WIRE LIST - CUT AND CODE AS REQUIRED -105W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5601	22	CQ	300	BMS 13-58, TYPE 1, CLASS 1
W5514	5602	22	PA	450	BMS 13-48, TYPE 10, CLASS 1
W5514	5603	22	PA	300	BMS 13-48, TYPE 10, CLASS 1

FIGURE 15: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 1-5, 7-10, 12-23.

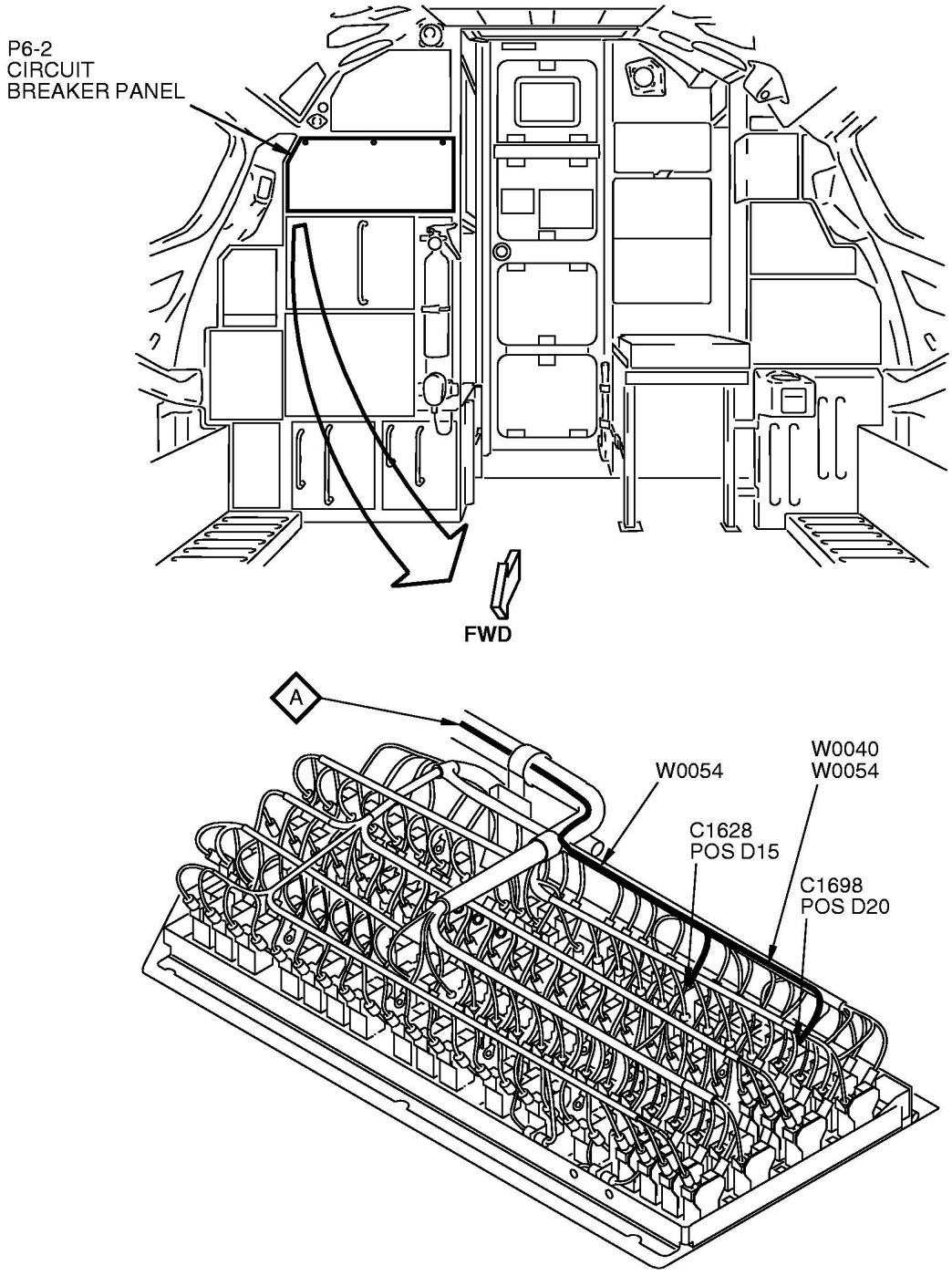


FIGURE 16: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 1 OF 4)

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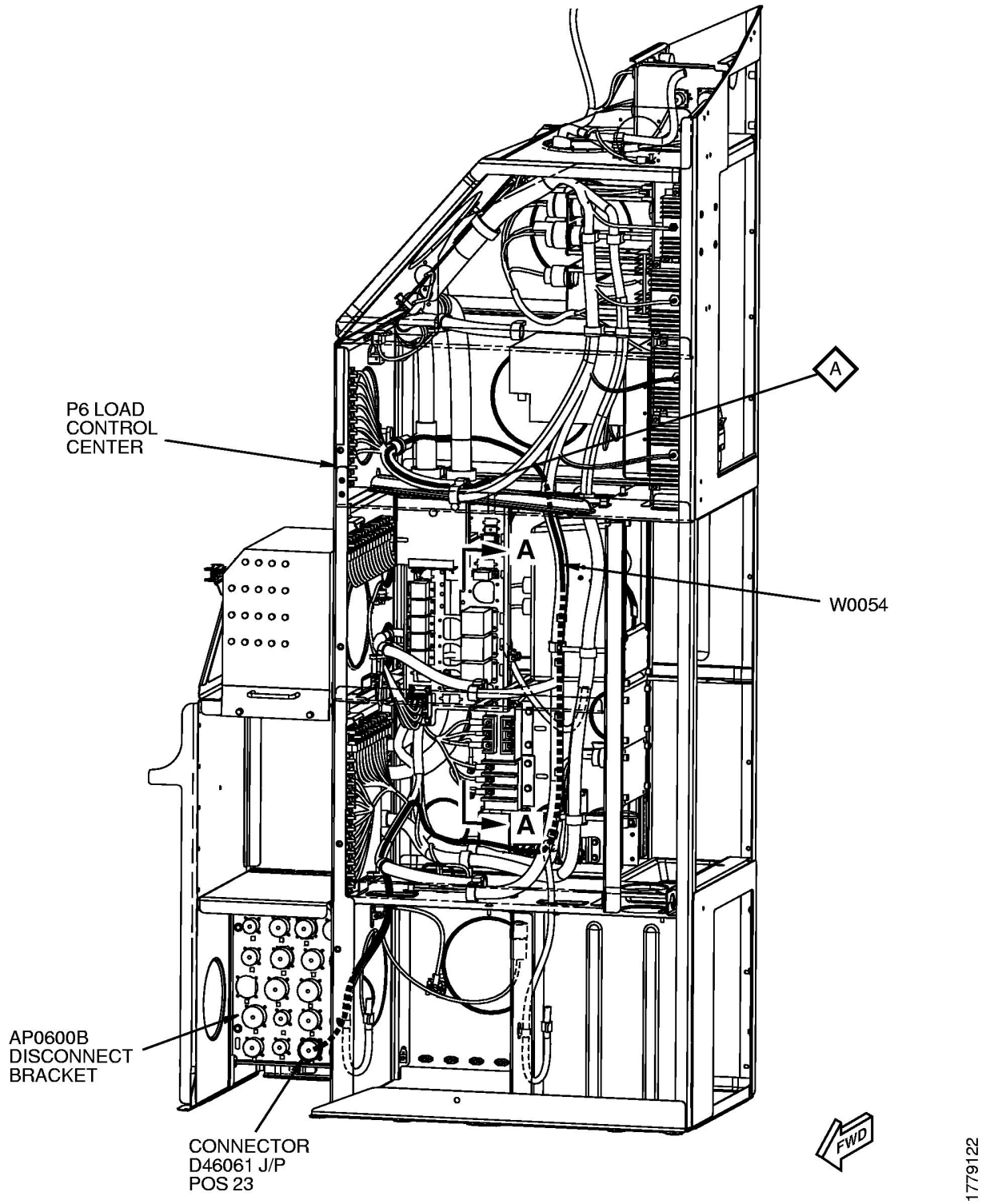


FIGURE 16: W0040 AND W0054 WIRE BUNDLES ROUTING
(SHEET 2 OF 4)

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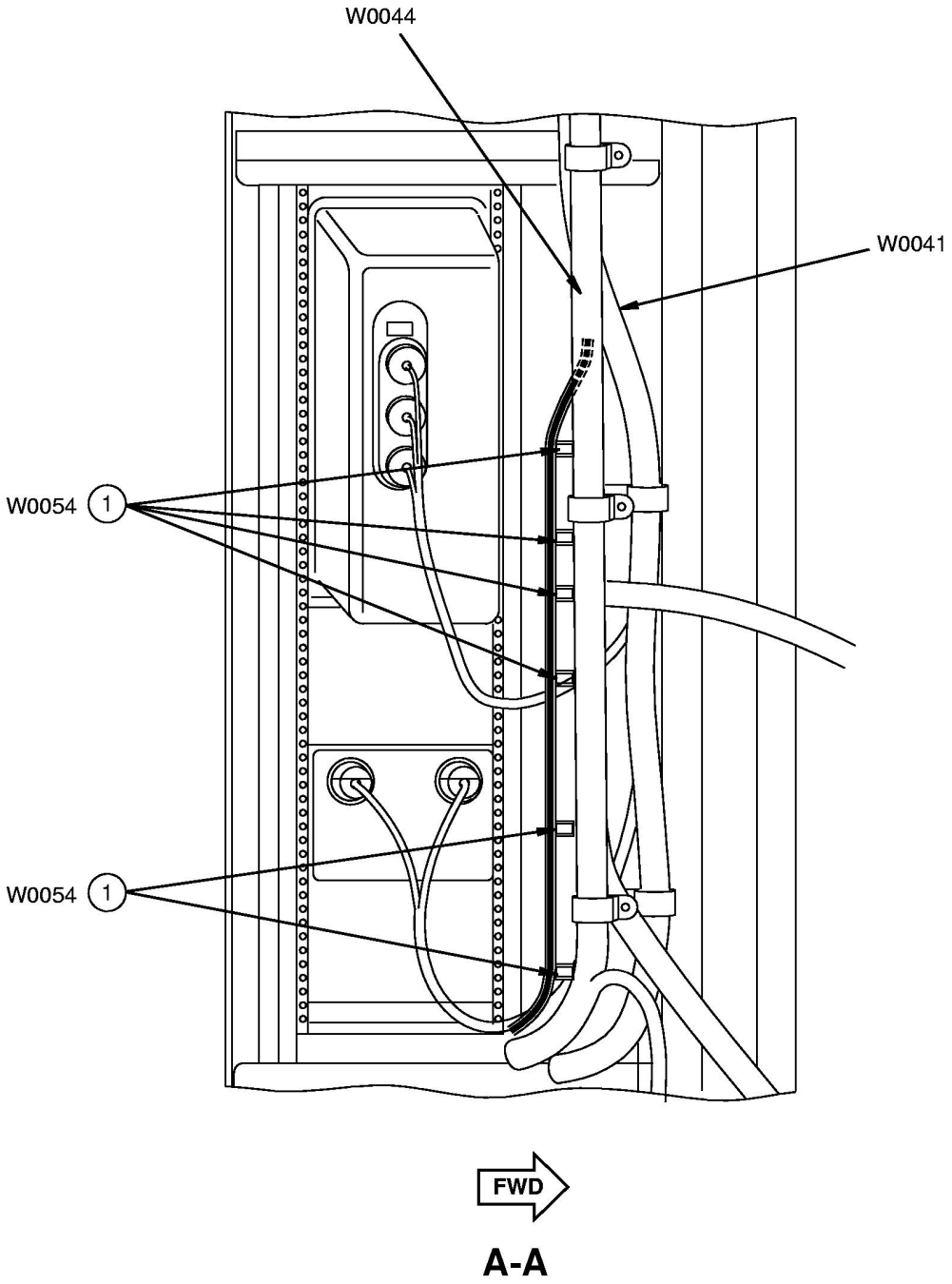


FIGURE 16: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 3 OF 4)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

NOTE: The unique wire bundle routing for wire bundle W0054 is provided due to Fuel Quantity Indicating System (FQIS) requirements.

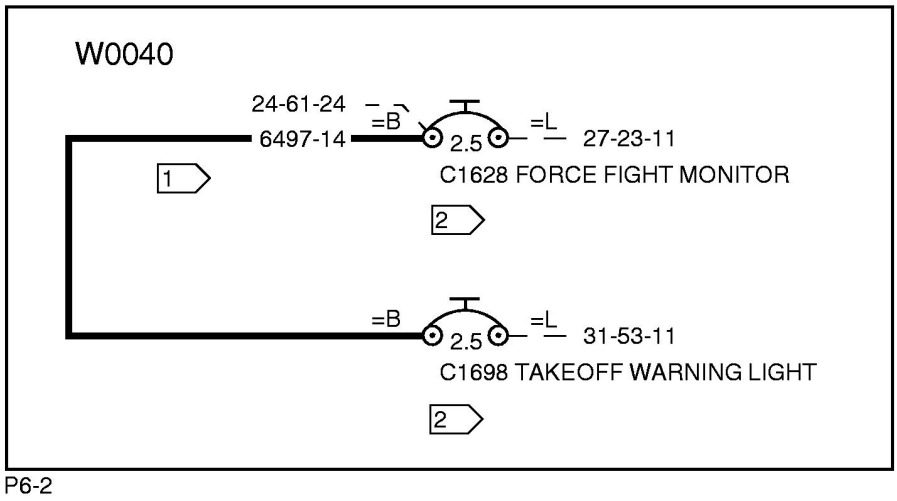
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	CONNECTOR RING	CR4H	15	(a)
	Install (New)	GROMMET	92A10346	15	(b)
	Install (New)	Sleeve	002A0006-80	2	(c) (d)
(a) Install spacers at intervals of 4 inches (+ or - 0.5 inches).					
(b) Use this part for single wire routing.					
(c) W0054 must be sleeved for separation.					
(d) Excess sleeve has been provided. The sleeve will be applied in two pieces. Refer to SWPM 20-10-14 and SWPM 20-10-18 as accepted procedures.					

FIGURE 16: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 4 OF 4)

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This Figure applies only to: Group 1-5, 7-10, 12-23.



REFERENCE: 737-600/700/800/900 WDM 24-61-24, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-106.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W0040	280A3143-106W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
	sleeve	280A3143-10601	1	
2	TERMINAL, LUG	BACT12AC53	3	(b) (c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-11 as an accepted procedure.				
(c) There are more parts than are necessary.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 17: CHANGES TO THE W0040 WIRE BUNDLE (SHEET 1 OF 2)

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WIRE LIST - CUT AND CODE AS REQUIRED -106W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0040	6497	14	HA	30	BMS 13-60, TYPE 7, CLASS 1

FIGURE 17: CHANGES TO THE W0040 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 6, 11.

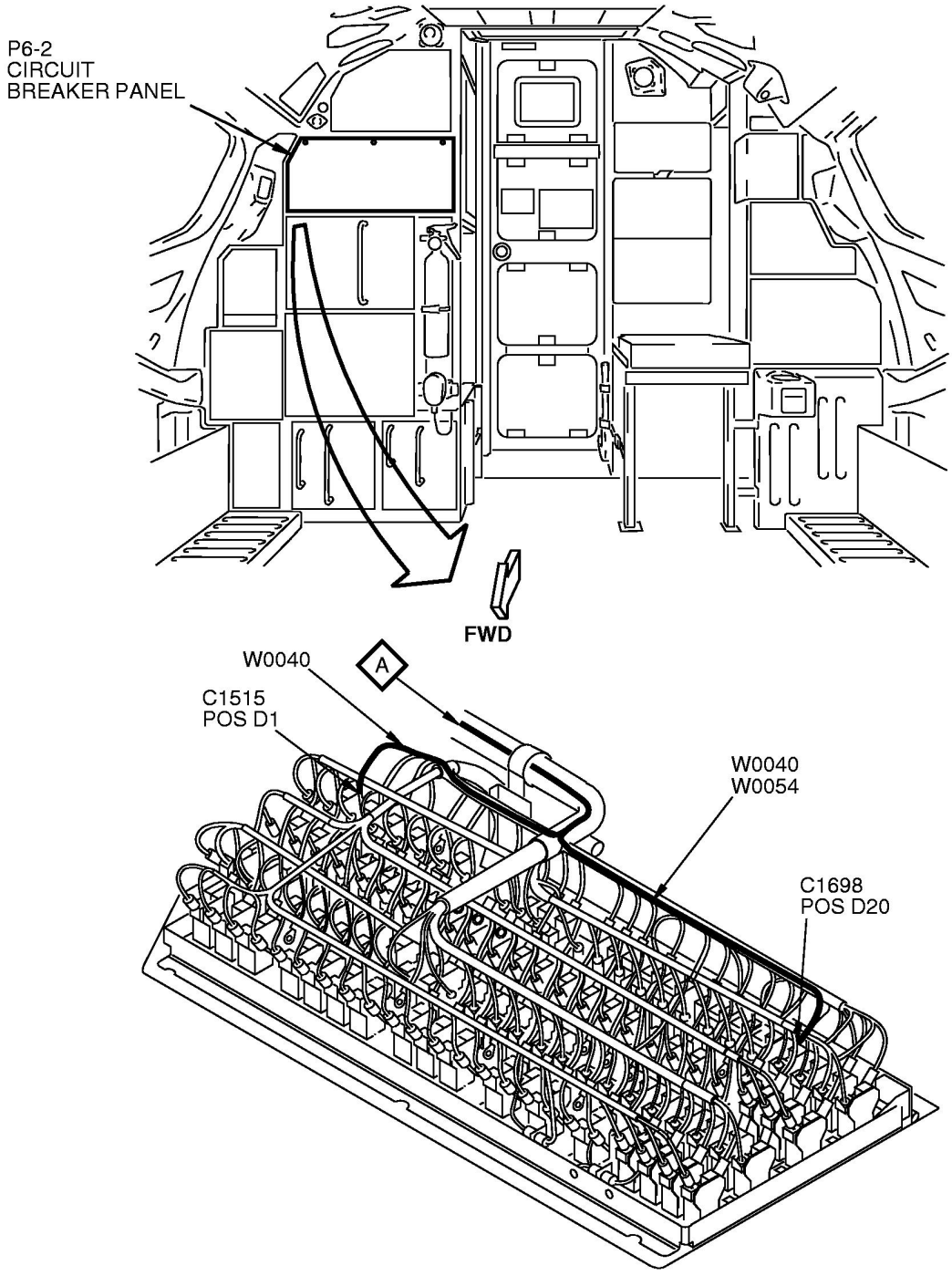


FIGURE 18: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 1 OF 4)

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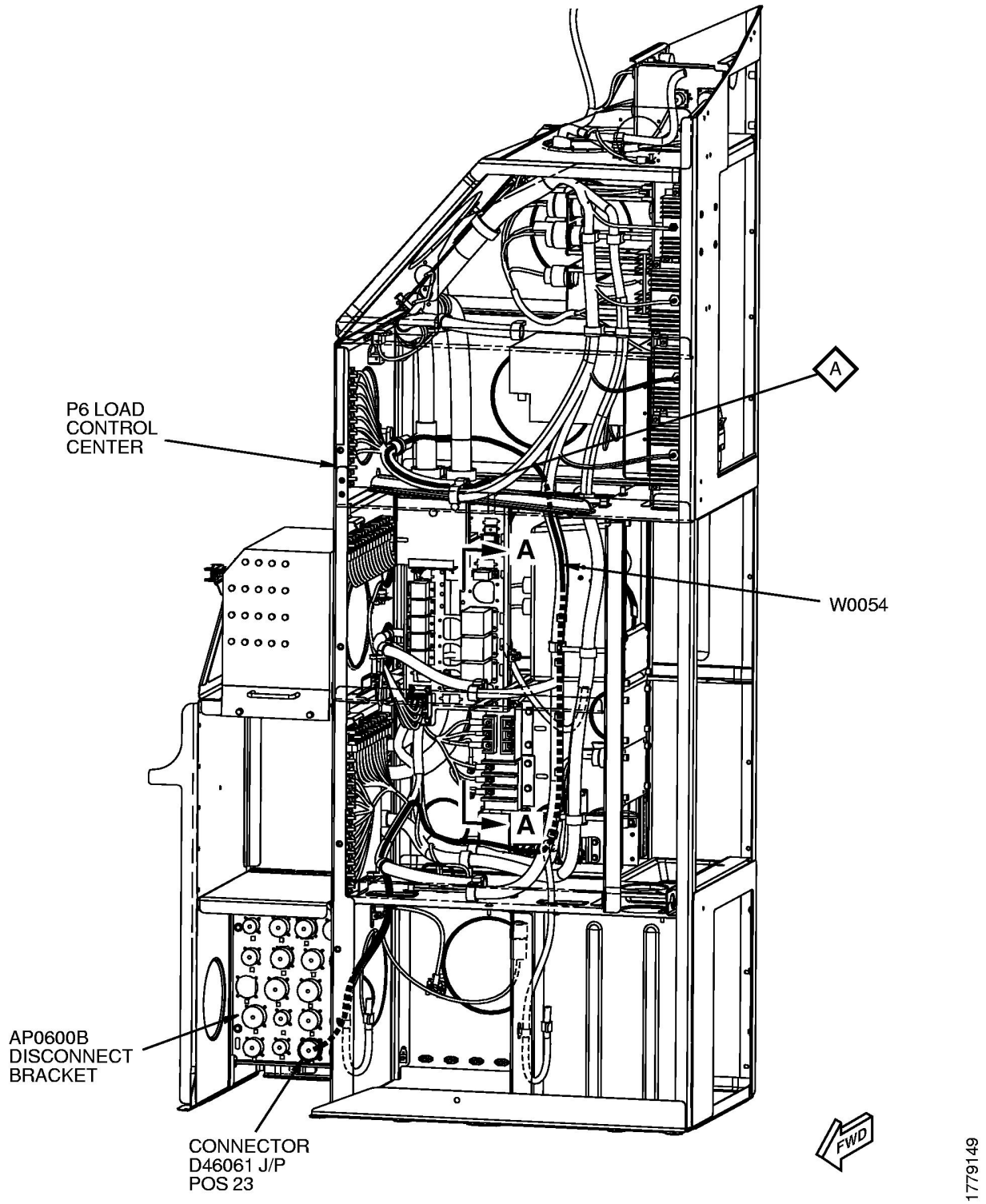


FIGURE 18: W0040 AND W0054 WIRE BUNDLES ROUTING
(SHEET 2 OF 4)

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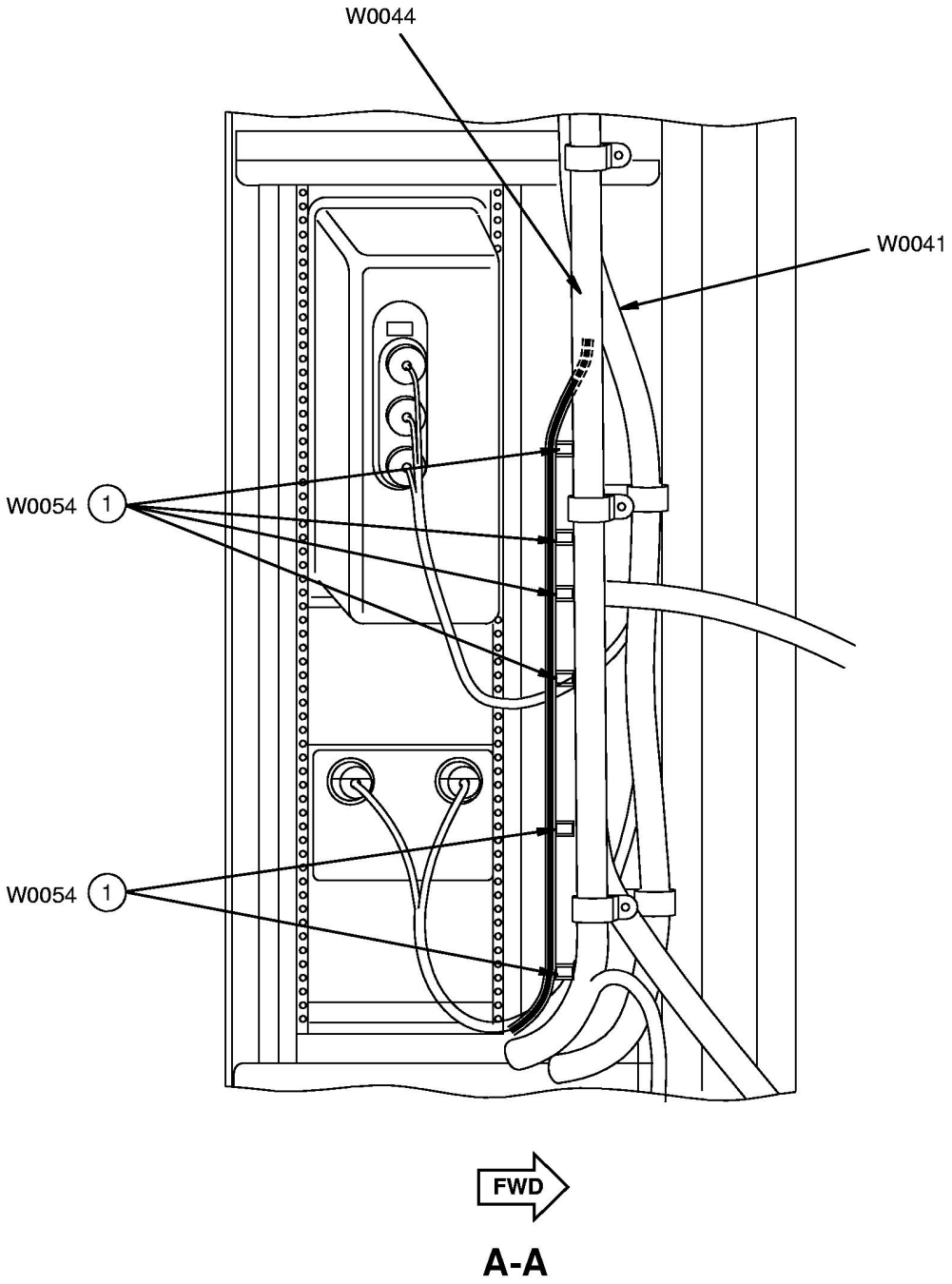


FIGURE 18: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 3 OF 4)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

NOTE: The unique wire bundle routing for wire bundle W0054 is provided due to Fuel Quantity Indicating System (FQIS) requirements.

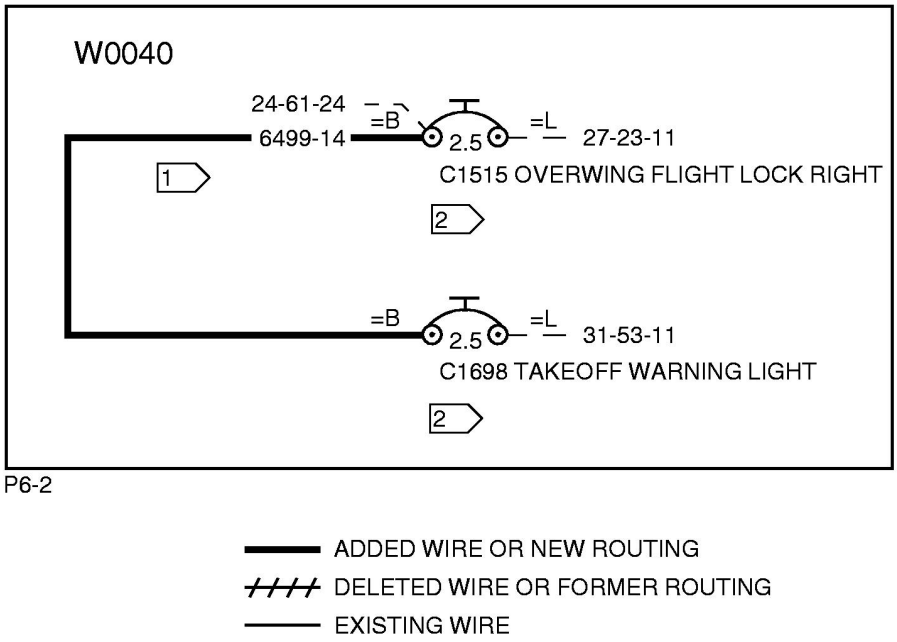
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	CONNECTOR RING	CR4H	15	(a)
	Install (New)	GROMMET	92A10346	15	(b)
	Install (New)	Sleeve	002A0006-80	2	(c) (d)
(a) Install spacers at intervals of 4 inches (+ or - 0.5 inches).					
(b) Use this part for single wire routing.					
(c) W0054 must be sleeved for separation.					
(d) Excess sleeve has been provided. The sleeve will be applied in two pieces. Refer to SWPM 20-10-14 and SWPM 20-10-18 as accepted procedures.					

FIGURE 18: W0040 AND W0054 WIRE BUNDLES ROUTING (SHEET 4 OF 4)

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This Figure applies only to: Group 6, 11.



REFERENCE: 737-600/700/800/900 WDM 24-61-24, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-114.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W0040	280A3143-114W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
	Sleeve	280A3143-11402	1	
2	TERMINAL, LUG	BACT12AC53	3	(b) (c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-11 as an accepted procedure.				
(c) There are more parts than are necessary.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

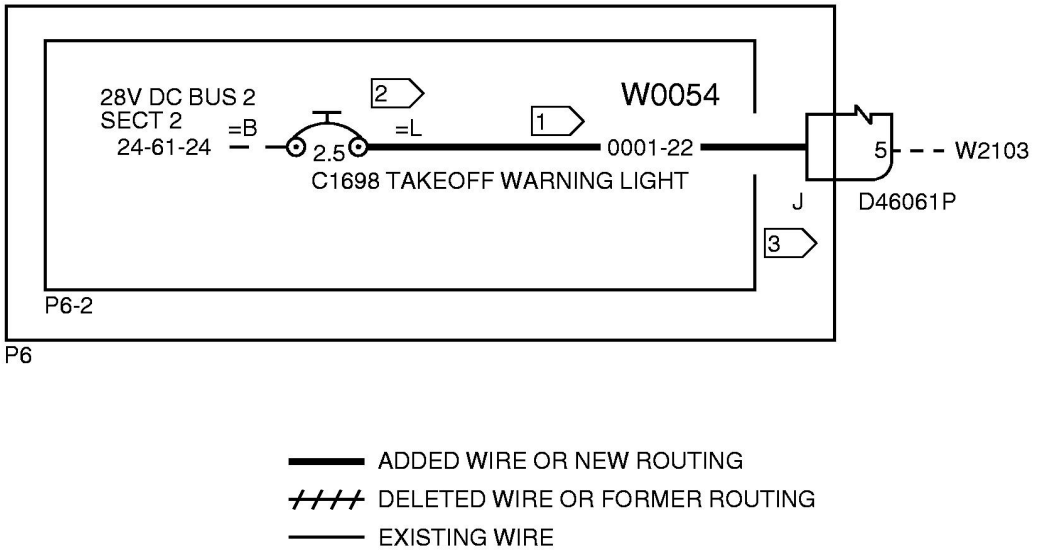
FIGURE 19: CHANGES TO THE W0040 WIRE BUNDLE (SHEET 1 OF 2)

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WIRE LIST - CUT AND CODE AS REQUIRED -114W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0040	6499	14	HA	42	BMS 13-60, TYPE 7, CLASS 1

FIGURE 19: CHANGES TO THE W0040 WIRE BUNDLE
(SHEET 2 OF 2)

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REFERENCE: 737-600/700/800/900 WDM 24-61-24, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-107.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W0054.	280A3143-107W	1	(a)
	LACING TAPE	280A2001-1	1	(e)
2	TERMINAL, LUG	BACT12AC49	2	(b)
3	CONTACT, SOCKET	BACC47CP1S	2	(c) (d)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-11 as an accepted procedure.				
(c) Refer to SWPM 20-61-11 as an accepted procedure.				
(d) There are more parts than are necessary.				
(e) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -107W

FIGURE 20: CHANGES TO THE W0054 WIRE BUNDLE (SHEET 1 OF 2)

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WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0054	0001	22	CQ	162	BMS 13-58, TYPE 1, CLASS 1

FIGURE 20: CHANGES TO THE W0054 WIRE BUNDLE
(SHEET 2 OF 2)

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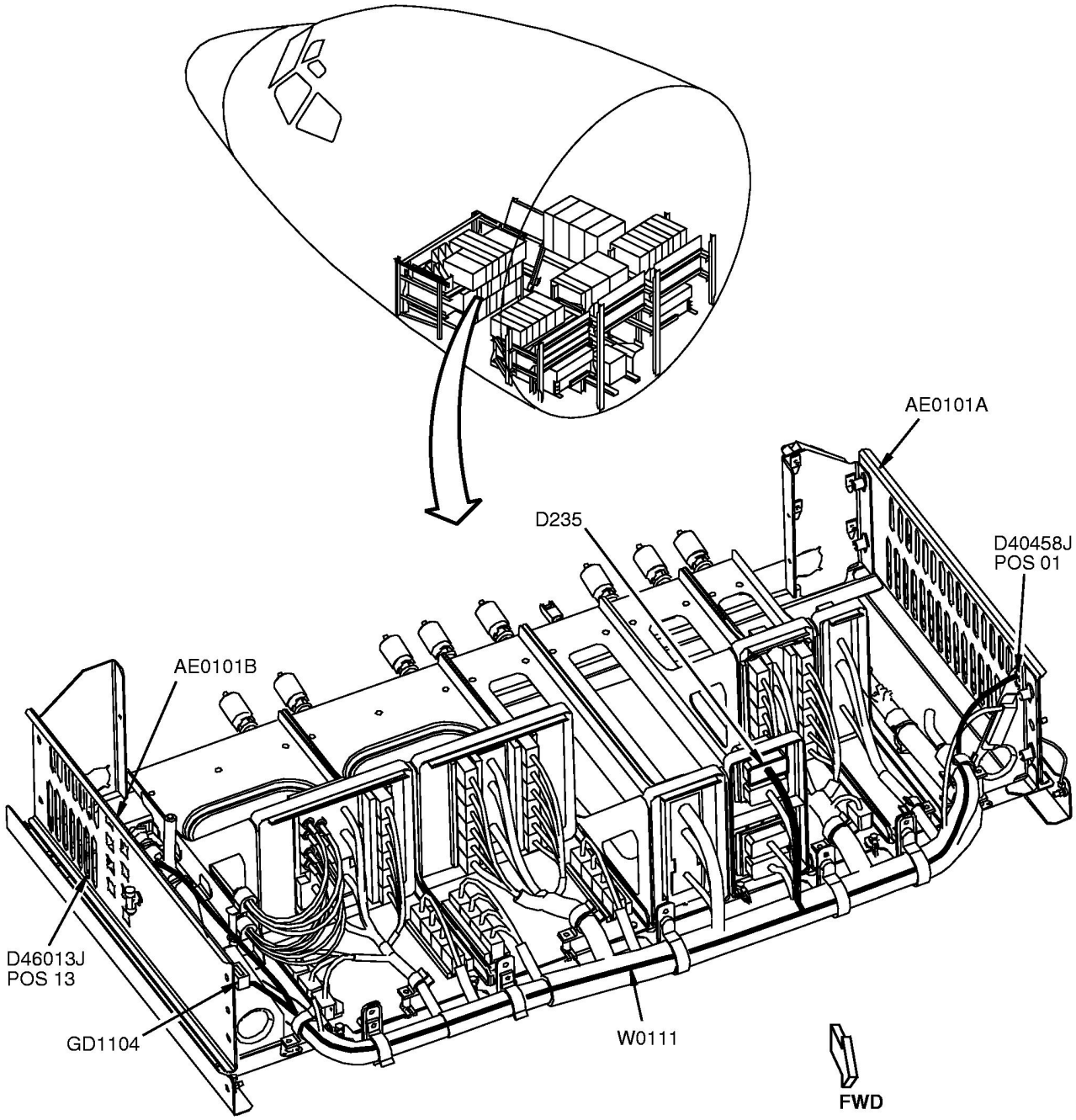
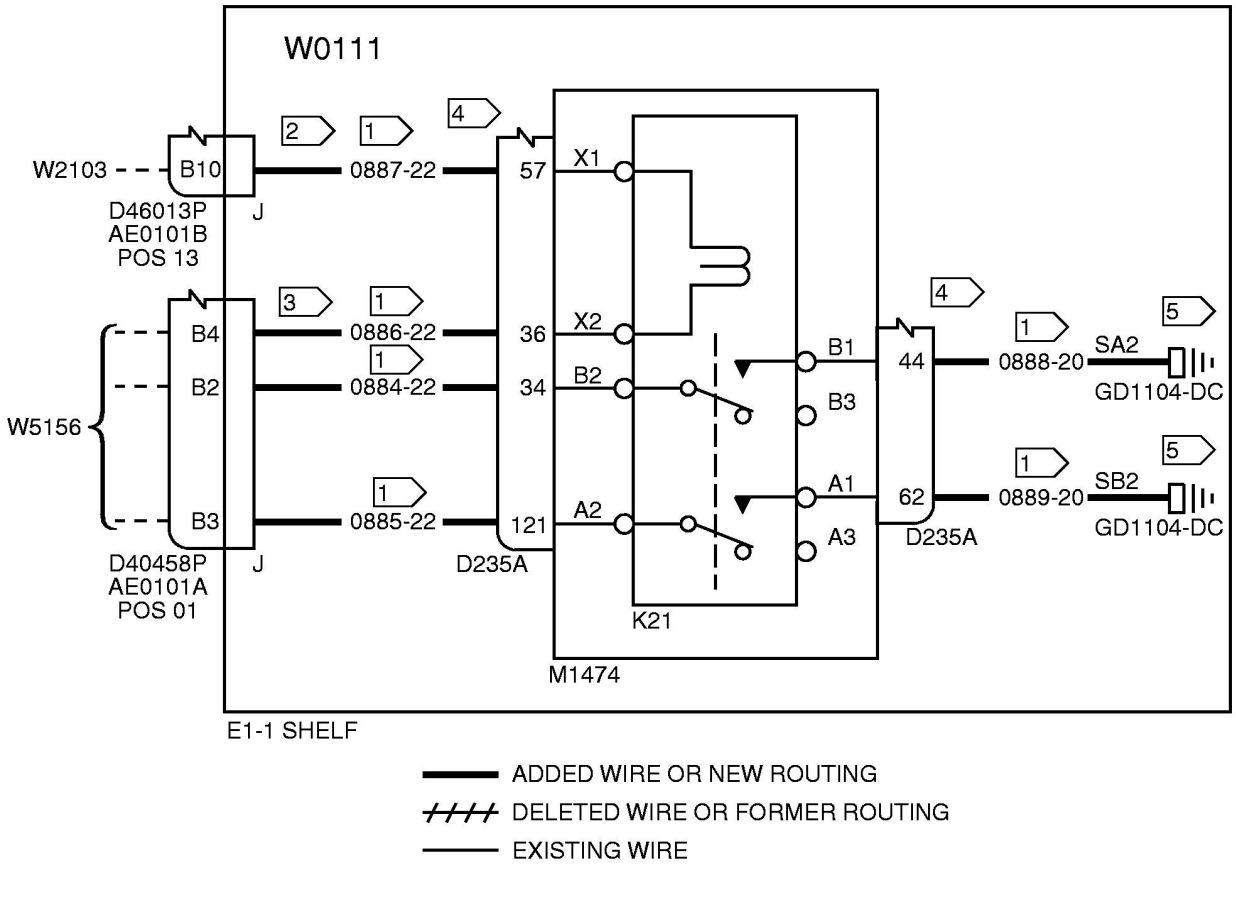


FIGURE 21: E1-1 ELECTRONICS SHELF - W0111 WIRE BUNDLE ROUTING (SHEET 1 OF 1)

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REFERENCE: 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-108.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W0111.	280A3143-108W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
2	CONTACT, PIN, SIZE 20	CTA-0166	2	(b)
3	CONTACT, SOCKET, SIZE 20	CTA-0165	4	(b) (e)
4	CONTACT, SOCKET, SIZE 20, ARINC 404	445591-1	7	(c)

FIGURE 22: CHANGES TO THE W0111 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
5	CONTACT, PIN, SIZE 20	S280W555-920	3	(d) (e)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-74-11 as an accepted procedure.				
(c) Refer to SWPM 20-71-12 as an accepted procedure.				
(d) Refer to SWPM 20-90-15 as an accepted procedure.				
(e) There are more parts than are necessary.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -108W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W0111	0884	22	CQ	66	BMS 13-58, TYPE 1, CLASS 1
W0111	0885	22	CQ	66	BMS 13-58, TYPE 1, CLASS 1
W0111	0886	22	CQ	66	BMS 13-58, TYPE 1, CLASS 1
W0111	0887	22	CQ	80	BMS 13-58, TYPE 1, CLASS 1
W0111	0888	20	CQ	66	BMS 13-58, TYPE 1, CLASS 1
W0111	0889	20	CQ	66	BMS 13-58, TYPE 1, CLASS 1

FIGURE 22: CHANGES TO THE W0111 WIRE BUNDLE
(SHEET 2 OF 2)

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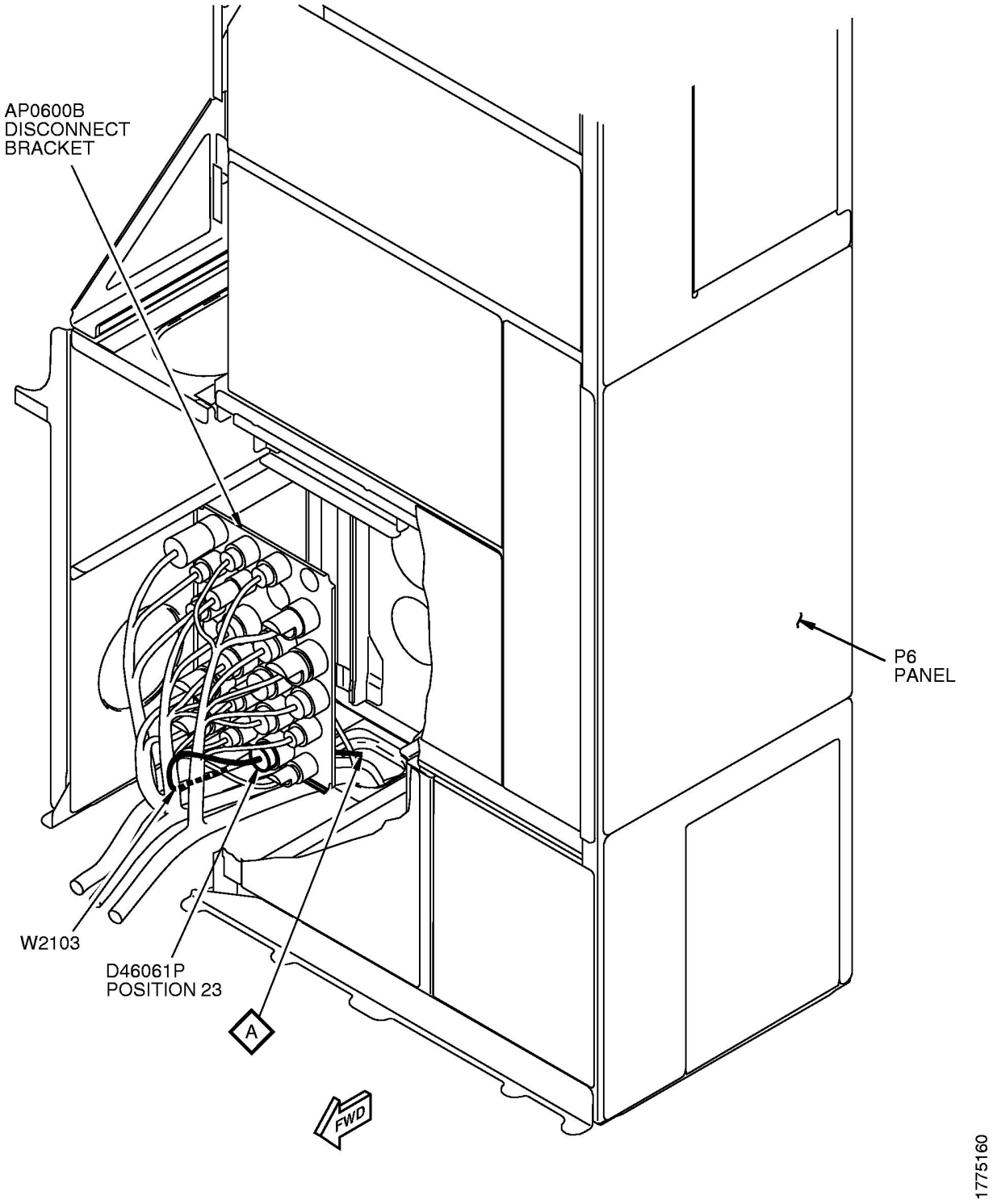


FIGURE 23: W2103 WIRE BUNDLE ROUTING
(SHEET 1 OF 5)

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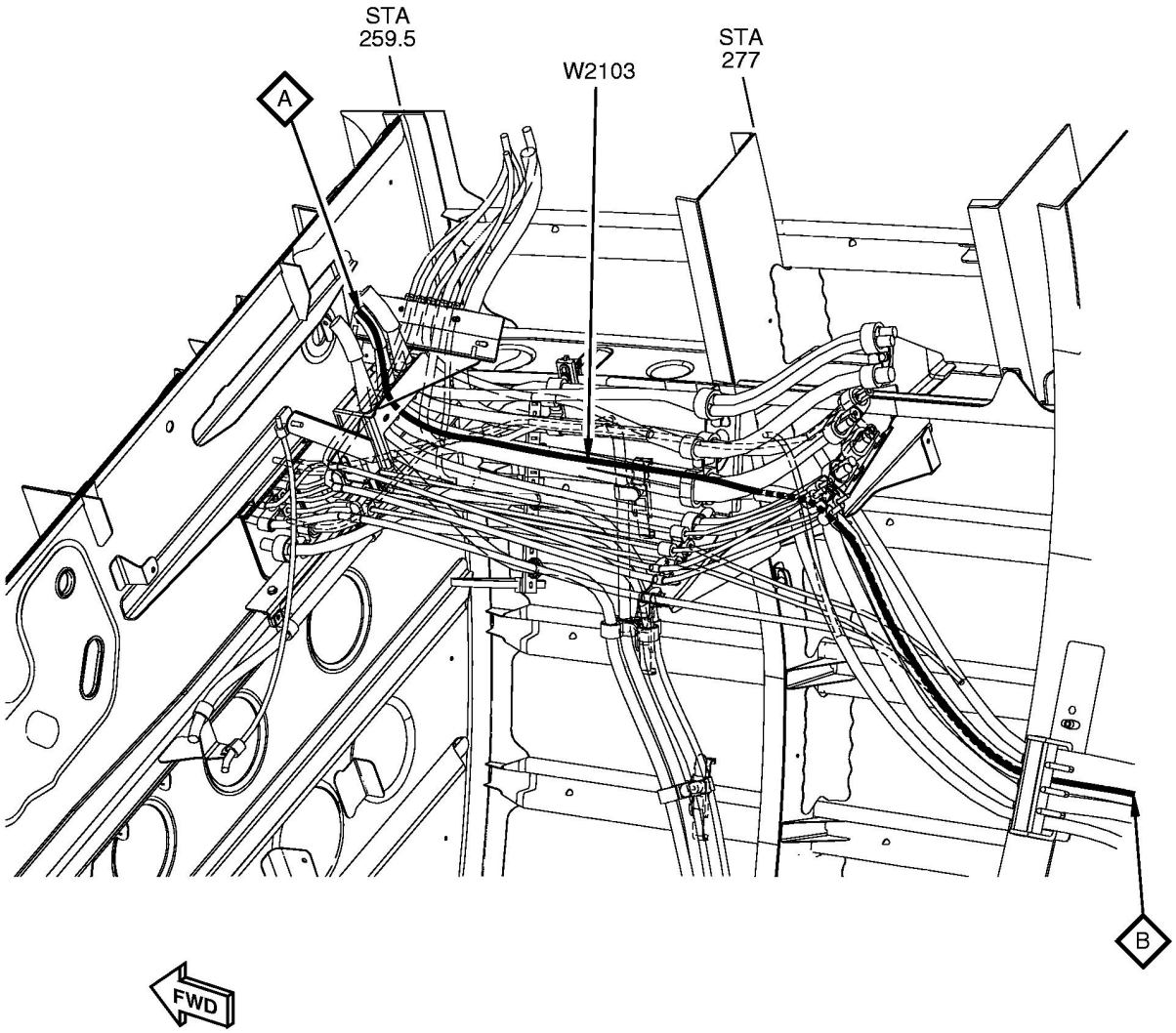


FIGURE 23: W2103 WIRE BUNDLE ROUTING
(SHEET 2 OF 5)

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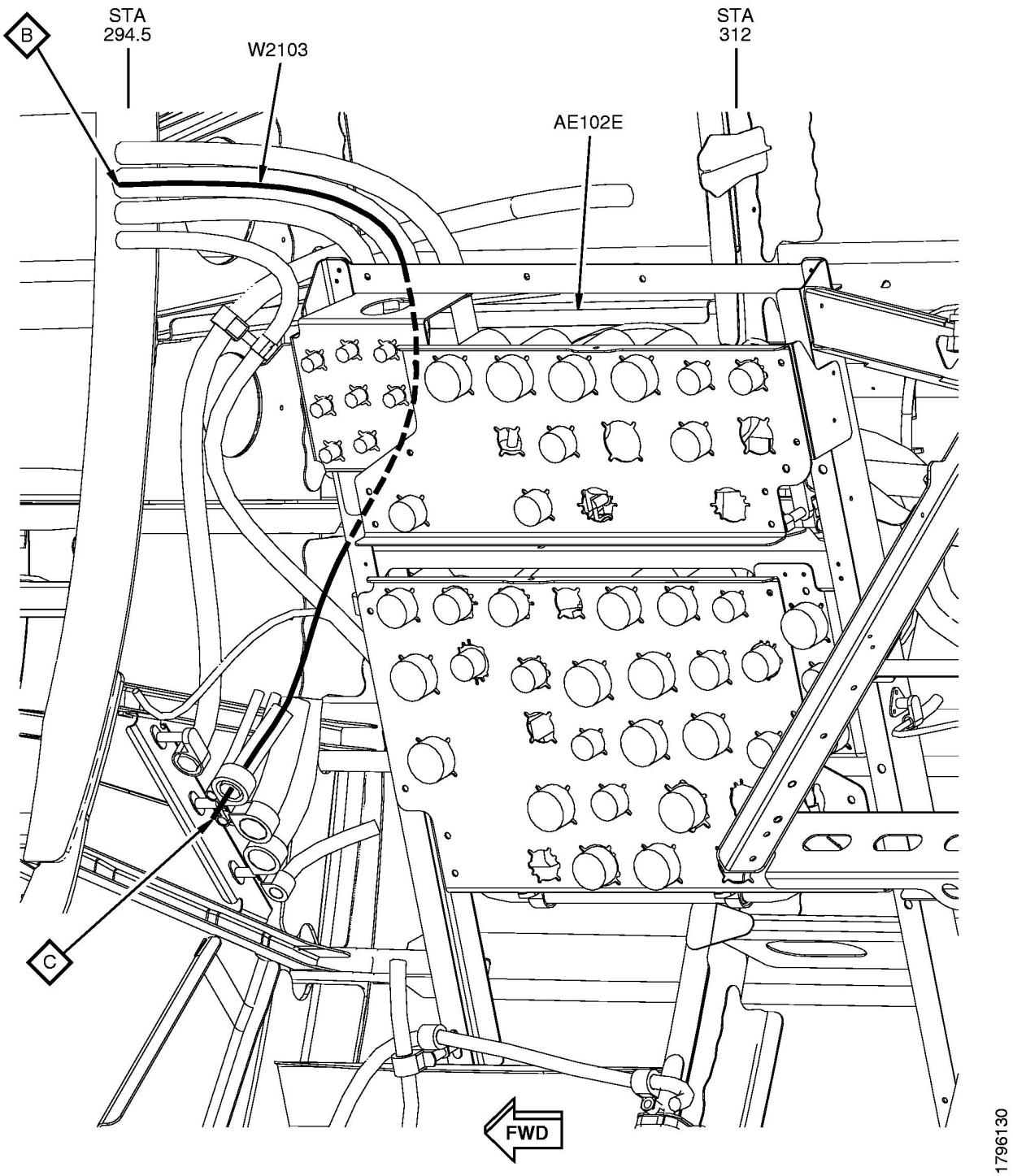


FIGURE 23: W2103 WIRE BUNDLE ROUTING
(SHEET 3 OF 5)

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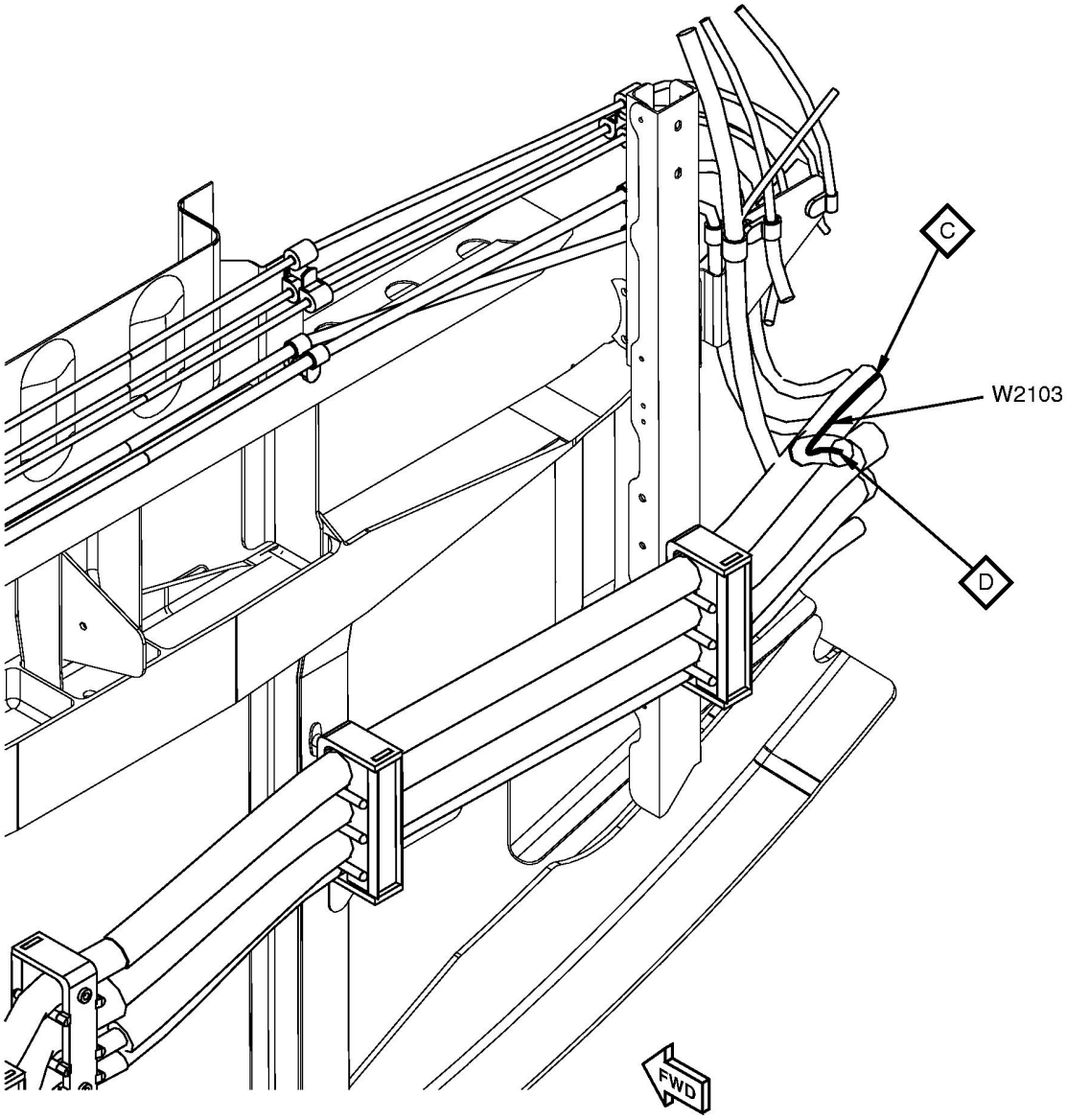


FIGURE 23: W2103 WIRE BUNDLE ROUTING
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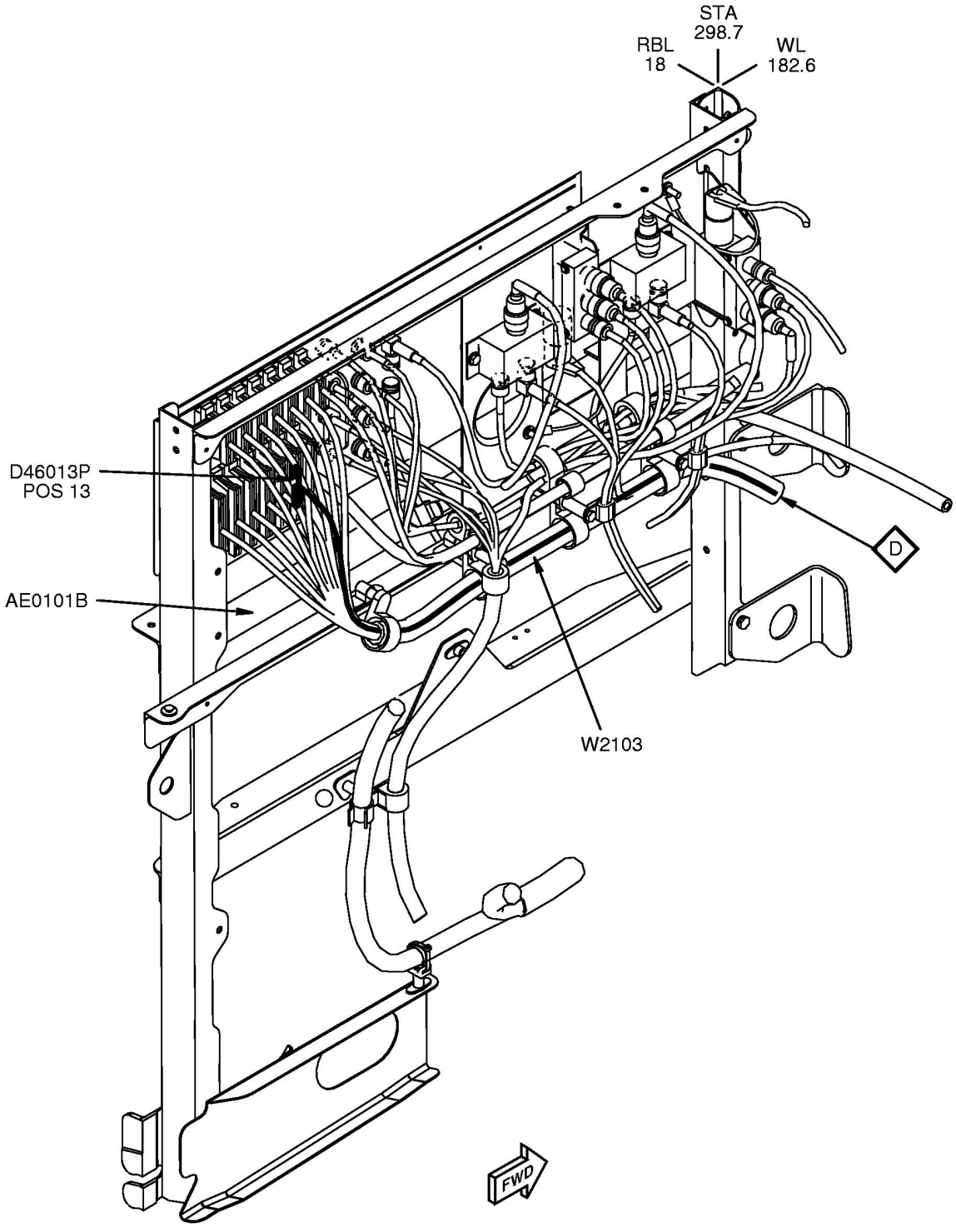
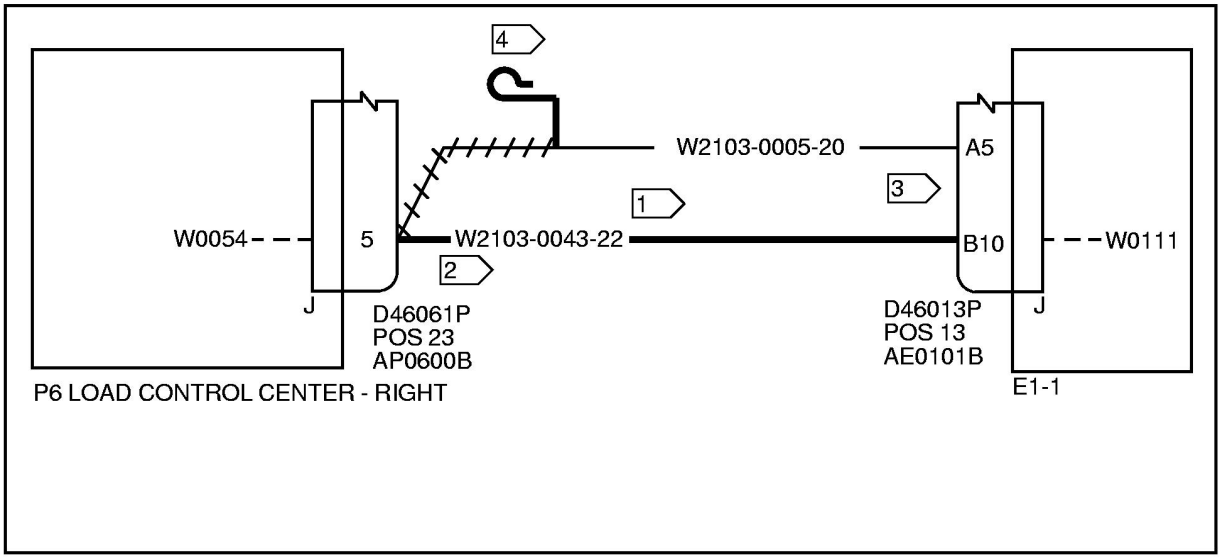


FIGURE 23: W2103 WIRE BUNDLE ROUTING
(SHEET 5 OF 5)

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1776129

REFERENCE: 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-109 and 280A3143-117.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W2103.	280A3143-109W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
2	CONTACT, PIN	BACC47CN1SB	2	(b)
3	CONTACT, SOCKET, SIZE 20	CTA-0165	2	(c)
4	SLEEVE, HEAT SHRINK	BACT63D2	1	(d) (e)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-74-11 as an accepted procedure.				
(d) Remove the spare wire W2103-0005-20, if it is installed. Tape and stow the wire so that the new wire W2103-0043-22 could be terminated at pin 5.				

FIGURE 24: CHANGES TO THE W2103 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(e) Refer to SWPM 20-30-16 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

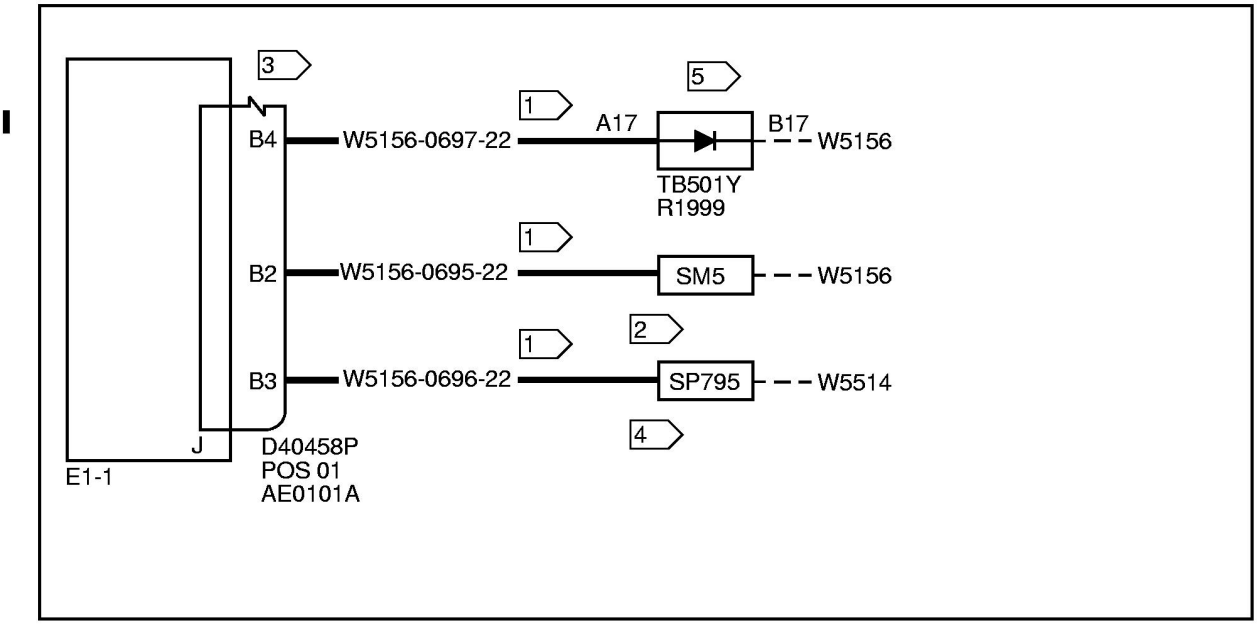
WIRE LIST - CUT AND CODE AS REQUIRED -109W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2103	0043	22	CQ	160	BMS 13-58, TYPE 1, CLASS 1

FIGURE 24: CHANGES TO THE W2103 WIRE BUNDLE
(SHEET 2 OF 2)

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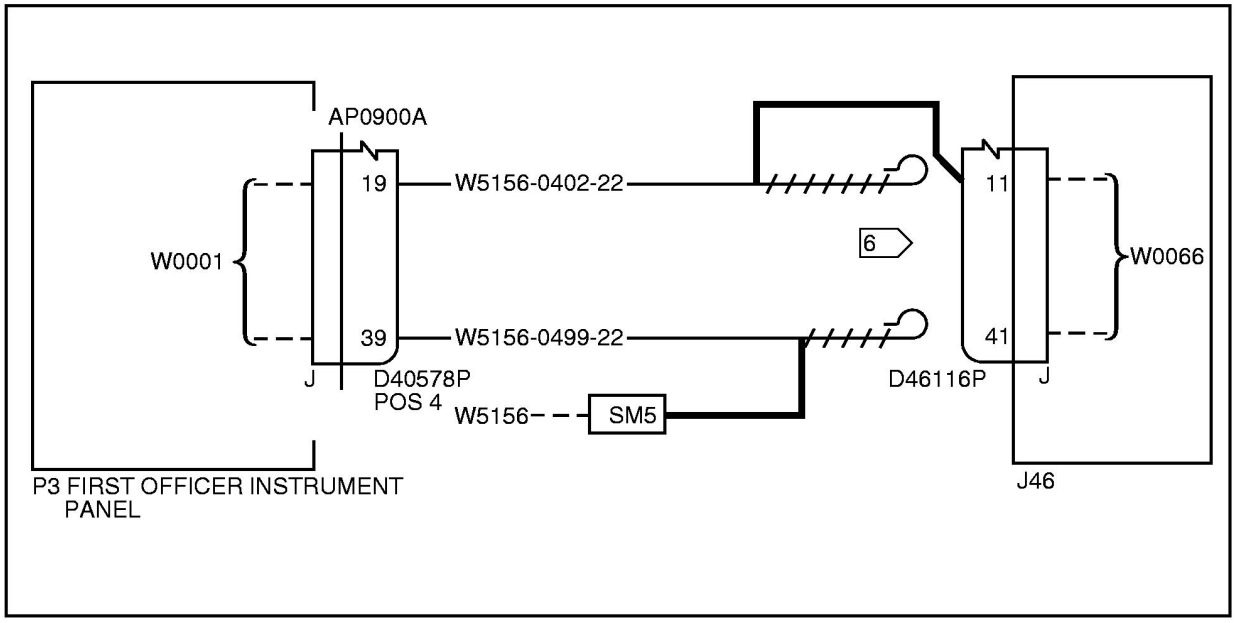
This Figure applies only to: Group 7.



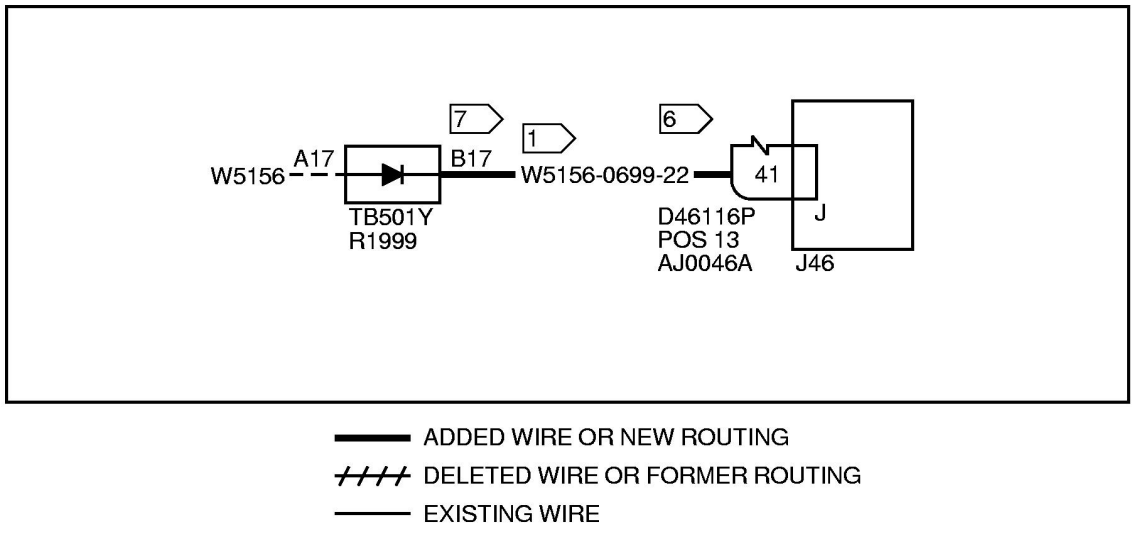
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FIGURE 25: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

FIGURE 25: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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NOTE: Get the parts from Wire Kits 280A3143-110 and 280A3143-116.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W5156.	280A3143-110W	1	(a)
	Wire List for W5156.	280A3143-116W	1	(a)
	LACING TAPE	280A2001-1	-	(f)
2	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
3	CONTACT, PIN, SIZE 20	CTA-0166	4	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
5	TERMINAL MODULE	S280W555-104	1	(d)
	TERMINAL MODULE	S280W555-751	1	(d)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(d)
	ID Tape - Terminal Block Module	280A3143-11001	1	
6	CONTACT, PIN	BACC47CN1S	2	(e)
7	CONTACT, PIN, SIZE 20	S280W555-920	2	(d)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-12 as an accepted procedure.				
(c) Refer to SWPM 20-74-11 as an accepted procedure.				
(d) Refer to SWPM 20-90-15 as an accepted procedure.				
(e) Refer to SWPM 20-61-11 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -110W, -116W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0695	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1

FIGURE 25: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 3 OF 4)

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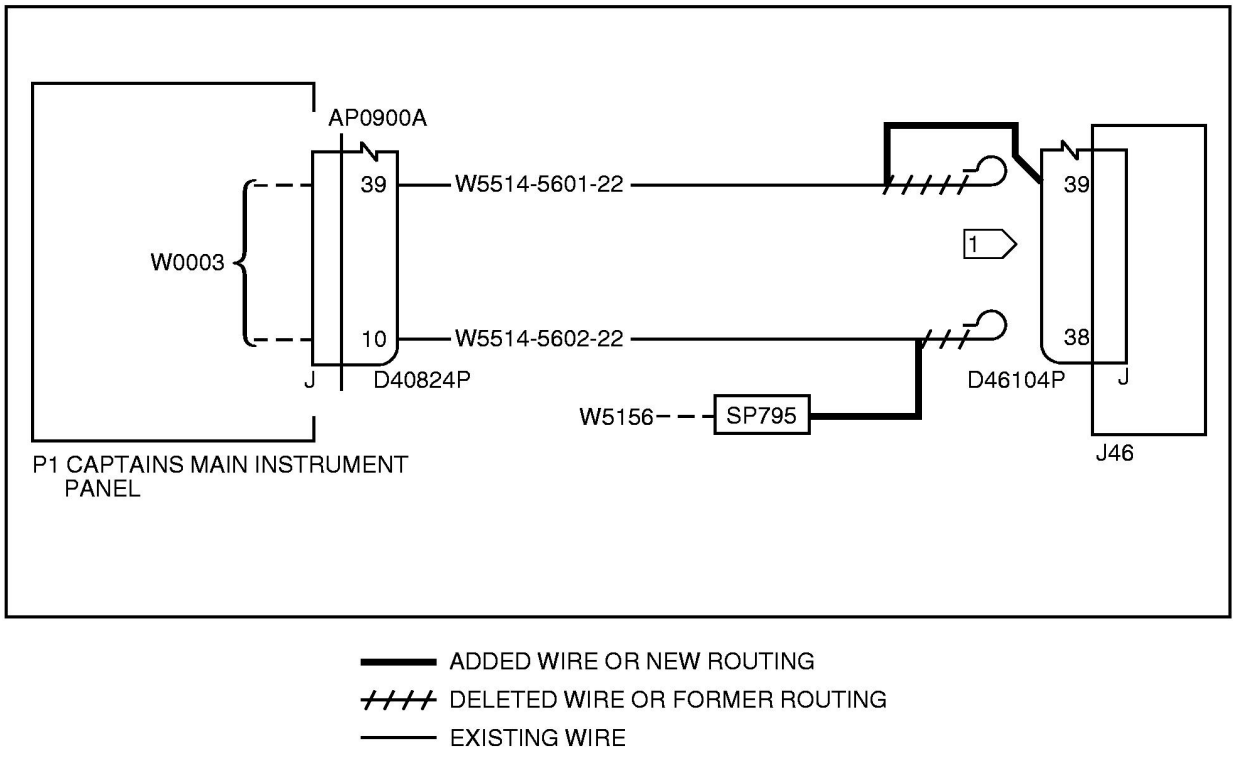
W5156	0696	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0699	22	CQ	337	BMS 13-58, TYPE 1, CLASS 1

FIGURE 25: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 7.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-111.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	CONTACT, PIN	BACC47CN1S	2	(a) (b)
(a) Refer to SWPM 20-61-11 as an accepted procedure.				
(b) There are more parts than are necessary in Wire Kit 280A3143-111.				

FIGURE 26: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 1 OF 1)

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This Figure applies only to: Group 8-9, 11, 13-14, 16-18.

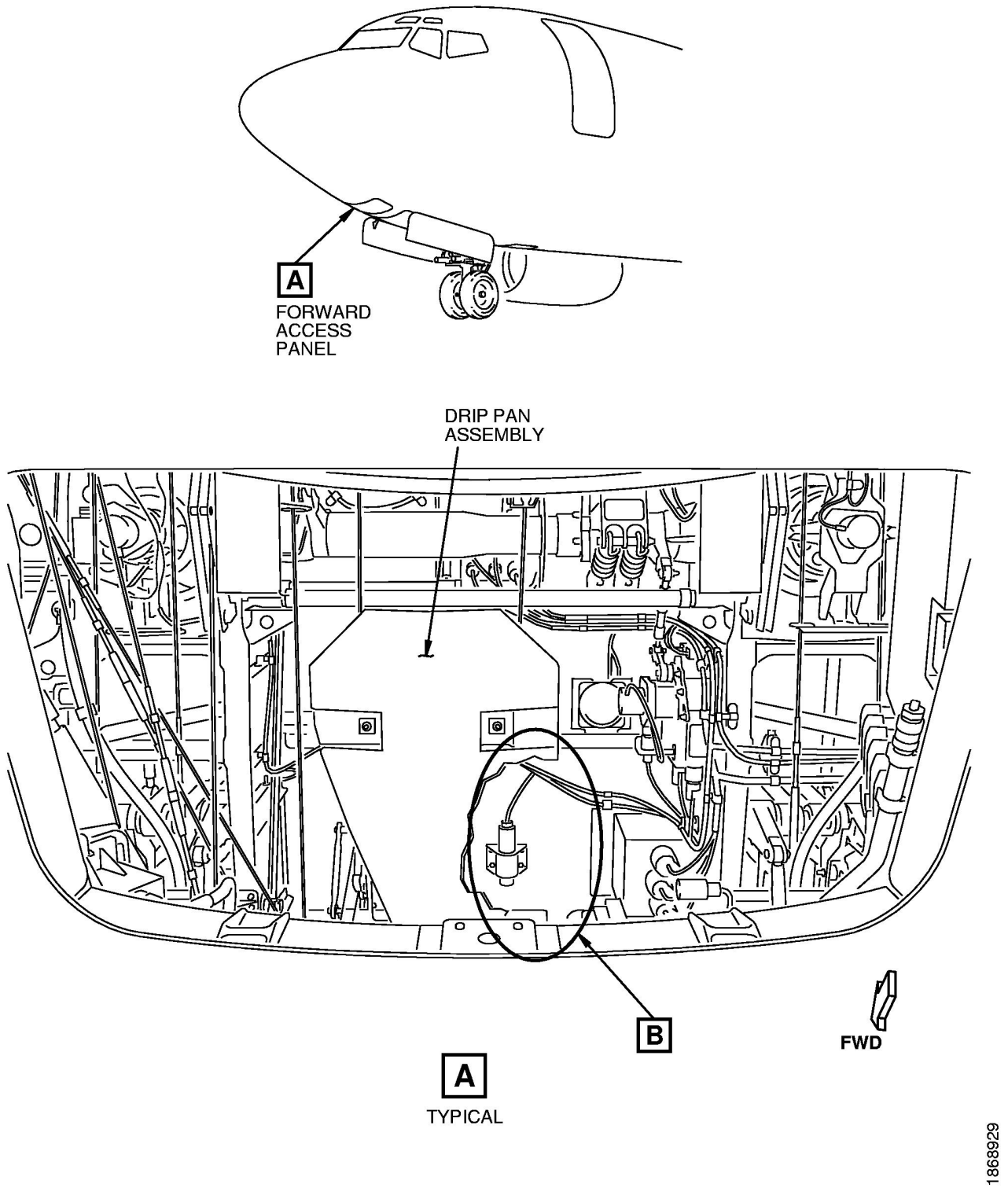


FIGURE 27: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (12,650 SET POINT) INSTALLATION (SHEET 1 OF 3)

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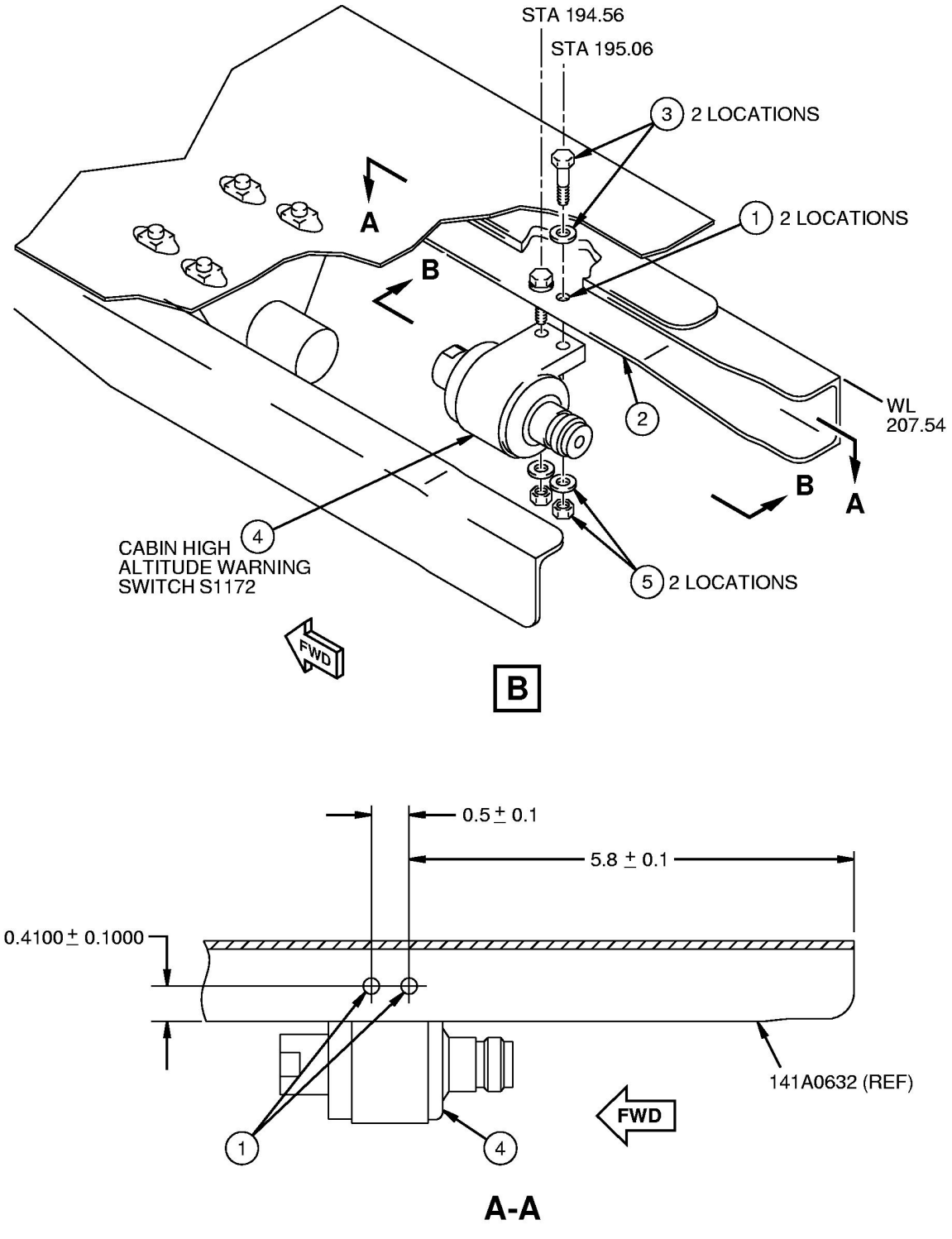
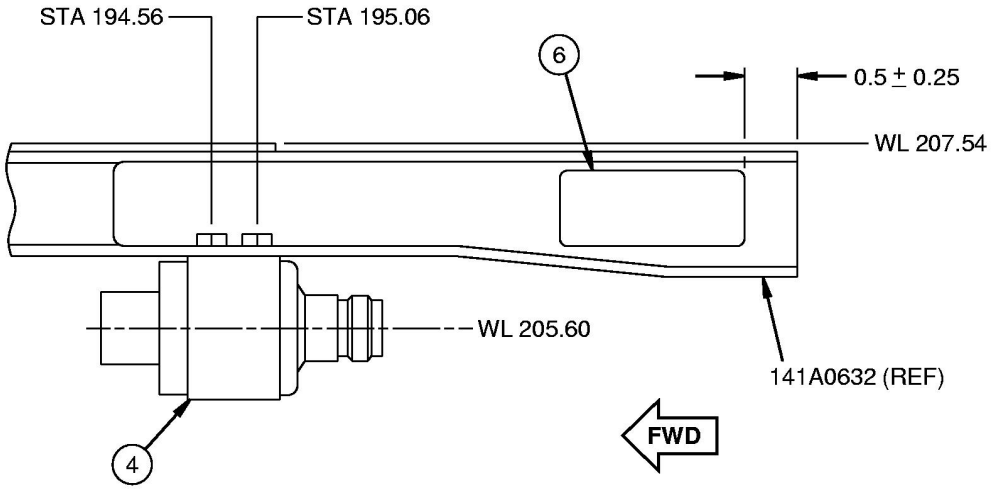


FIGURE 27: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (12,650 SET POINT) INSTALLATION (SHEET 2 OF 3)

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B-B

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

NOTE: Get the parts from Subkit 216A5001-401.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Drill	HOLE	-	2	(a)
2	Clean	FLOOR STRINGER	-	1	(b)
3	Install (New)	SCREW	BACS12GU3K11	2	
	Install (New)	WASHER	NAS1149D0316H	2	
4	Install (New)	ALTITUDE PRESSURE SWITCH	214C40-1-115	1	(c)
5	Install (New)	NUT	BACN10YR3CM	2	
	Install (New)	WASHER	NAS1149D0316H	2	
6	Install (New)	MARKER CABIN HIGH ALTITUDE WARNING SWITCH	BAC27DAC157	1	
(a) Hole diameter is 0.2180-0.2290 inches.					
(b) Remove unwanted material and prepare the surface for the switch installation. Refer to SOPM 20-30-03 as an accepted procedure.					
(c) Refer to 737-600/700/800/900 AMM 21-33-04 as an accepted procedure.					

FIGURE 27: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (12,650 SET POINT) INSTALLATION (SHEET 3 OF 3)

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This Figure applies only to: Group 10, 20.

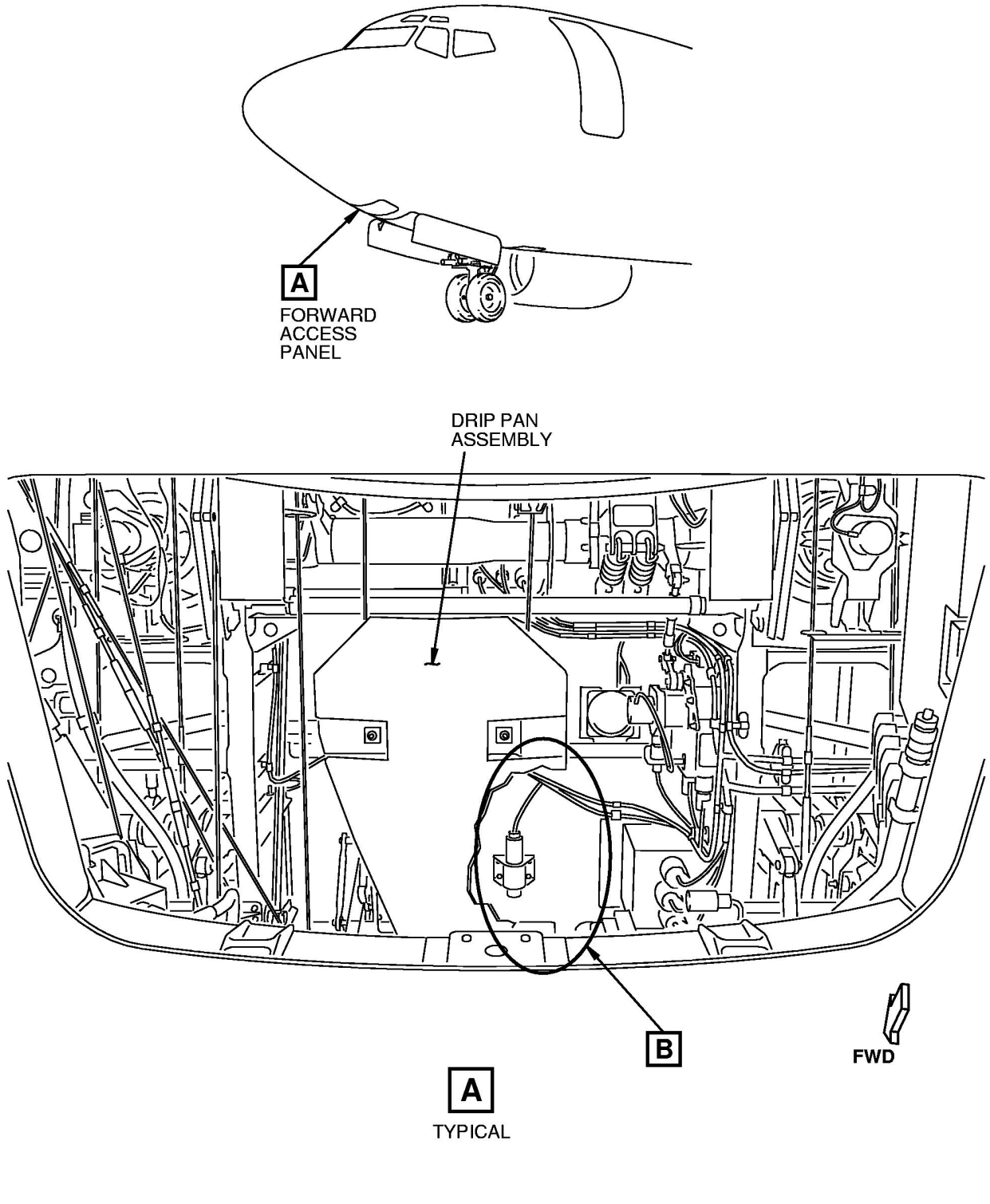


FIGURE 28: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (14,000 SET POINT) INSTALLATION (SHEET 1 OF 3)

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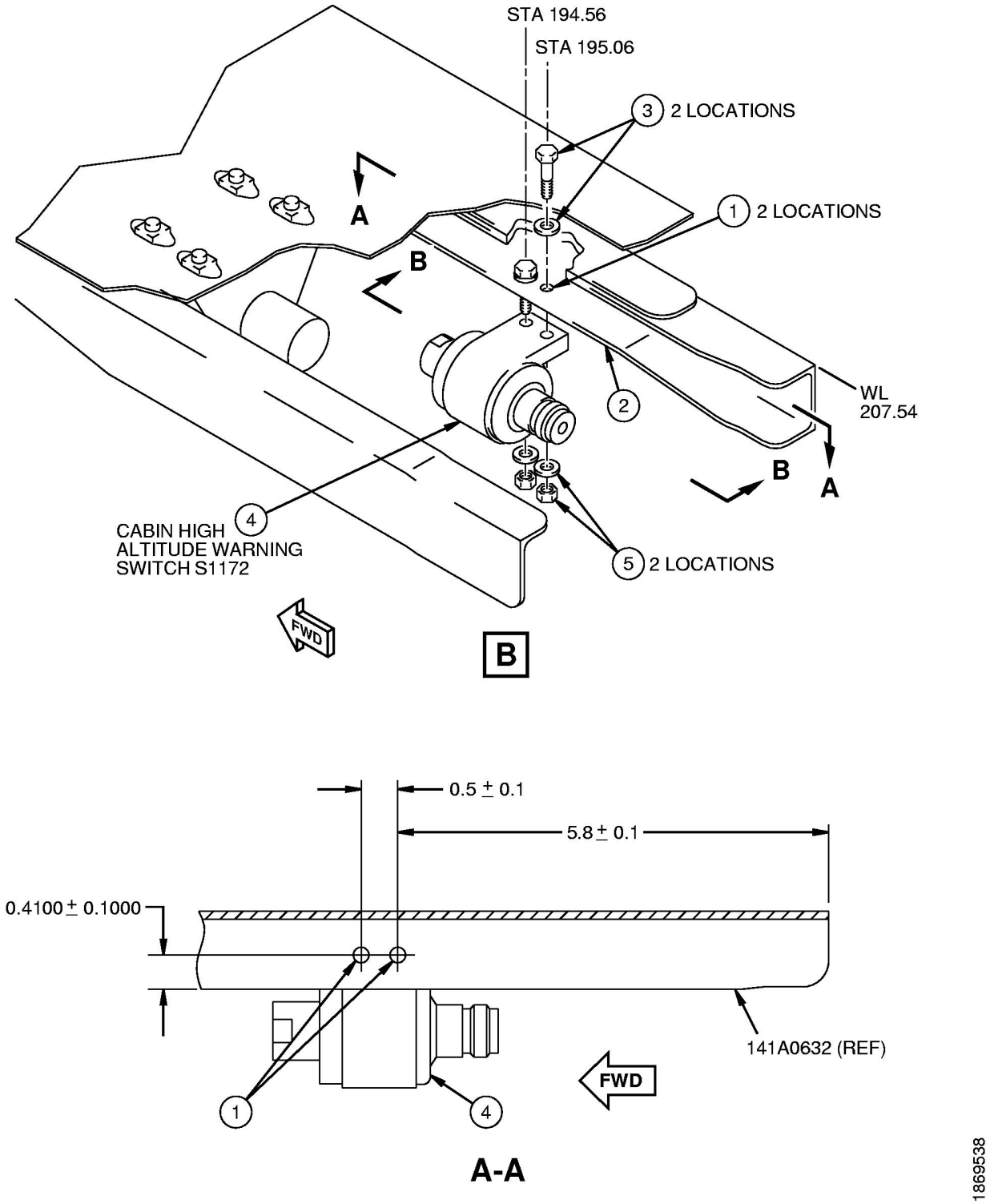
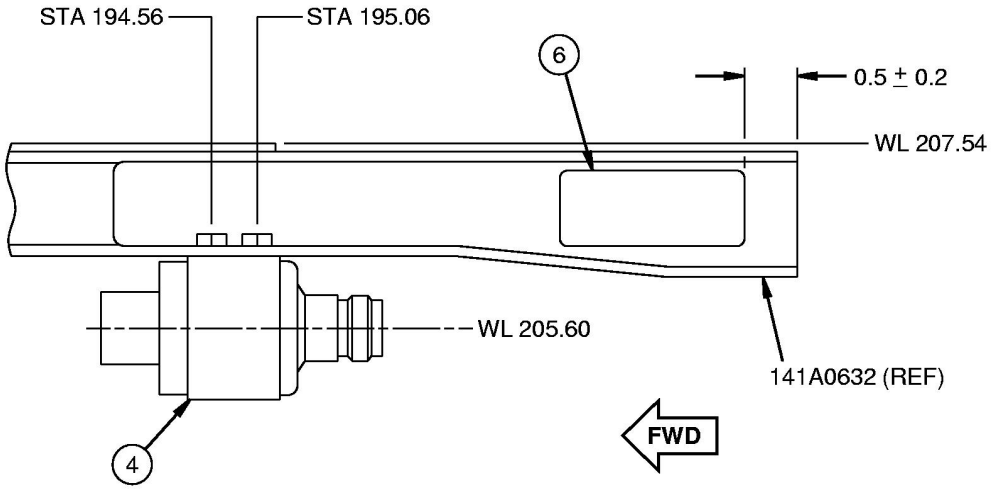


FIGURE 28: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (14,000 SET POINT) INSTALLATION (SHEET 2 OF 3)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

NOTE: Get the parts from Subkit 216A5001-403.

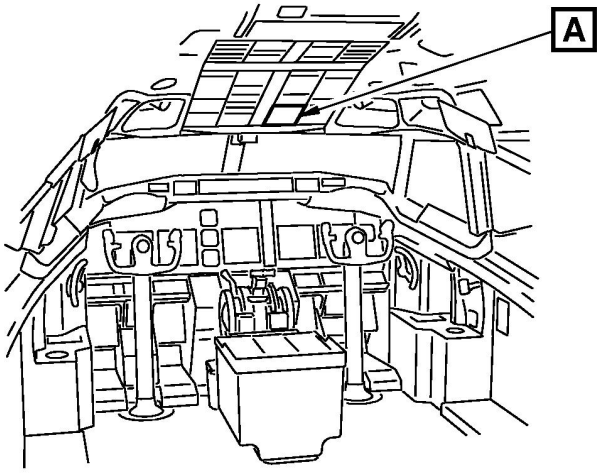
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Drill	HOLE	-	2	(a)
2	Clean	FLOOR STRINGER	-	1	(b)
3	Install (New)	SCREW	BACS12GU3K11	2	
	Install (New)	WASHER	NAS1149D0316H	2	
4	Install (New)	ALTITUDE PRESSURE SWITCH	214C40-1-110	1	(c)
5	Install (New)	NUT	BACN10YR3CM	2	
	Install (New)	WASHER	NAS1149D0316H	2	
6	Install (New)	MARKER	BAC27DAC107	1	
(a) Hole diameter is 0.2180-0.2290 inches.					
(b) Remove unwanted material and prepare the surface for the switch installation. Refer to SOPM 20-30-03 as an accepted procedure.					
(c) Refer to 737-600/700/800/900 AMM 21-33-04 as an accepted procedure.					

FIGURE 28: FORWARD ELECTRONICS COMPARTMENT CEILING - CABIN ALTITUDE WARNING - CABIN HIGH ALTITUDE WARNING SWITCH (14,000 SET POINT) INSTALLATION (SHEET 3 OF 3)

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This Figure applies only to: Group 8-20.



FLIGHT COMPARTMENT

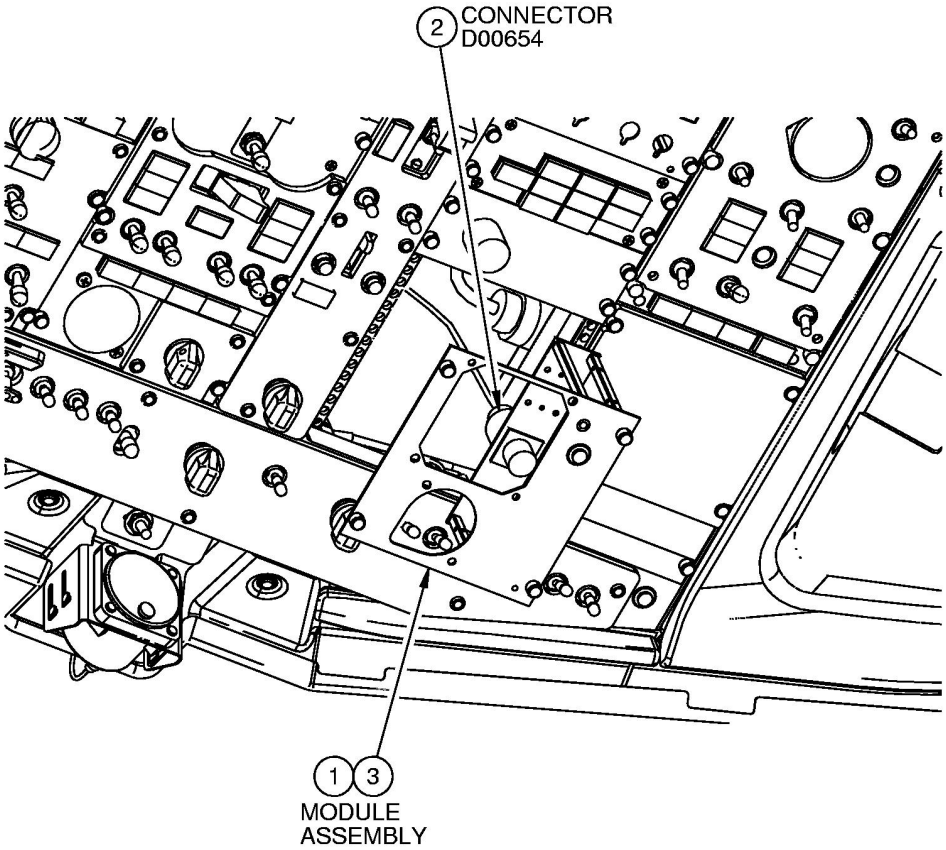


FIGURE 29: P5-16 CABIN ALTITUDE AND RATE OF CLIMB MODULE - REMOVAL (SHEET 1 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

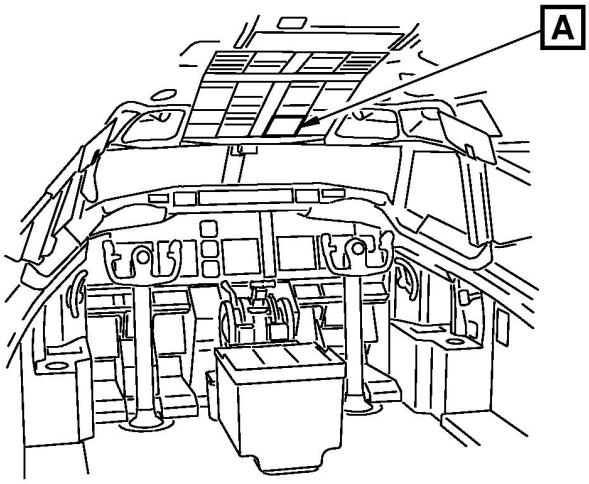
STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Loosen	MODULE ASSY, P5-16 PANEL	69-37334-12 (233A3213-1 or 233A3213-2 optional)	1	(a)
2	Disconnect	CONNECTOR	D00654	1	
3	Remove	MODULE ASSY, P5-16 PANEL	69-37334-12 (233A3213-1 or 233A3213-2 optional)	1	(b) (c)
(a) Four quick-release fasteners on the baseplate of the P5-16 module.					
(b) Discard or keep if there is a use for the part.					
(c) The panel part number 69-37334-12 cannot be modified and should be replaced.					

FIGURE 29: P5-16 CABIN ALTITUDE AND RATE OF CLIMB MODULE - REMOVAL (SHEET 2 OF 2)

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This Figure applies only to: Group 8-20.



FLIGHT COMPARTMENT

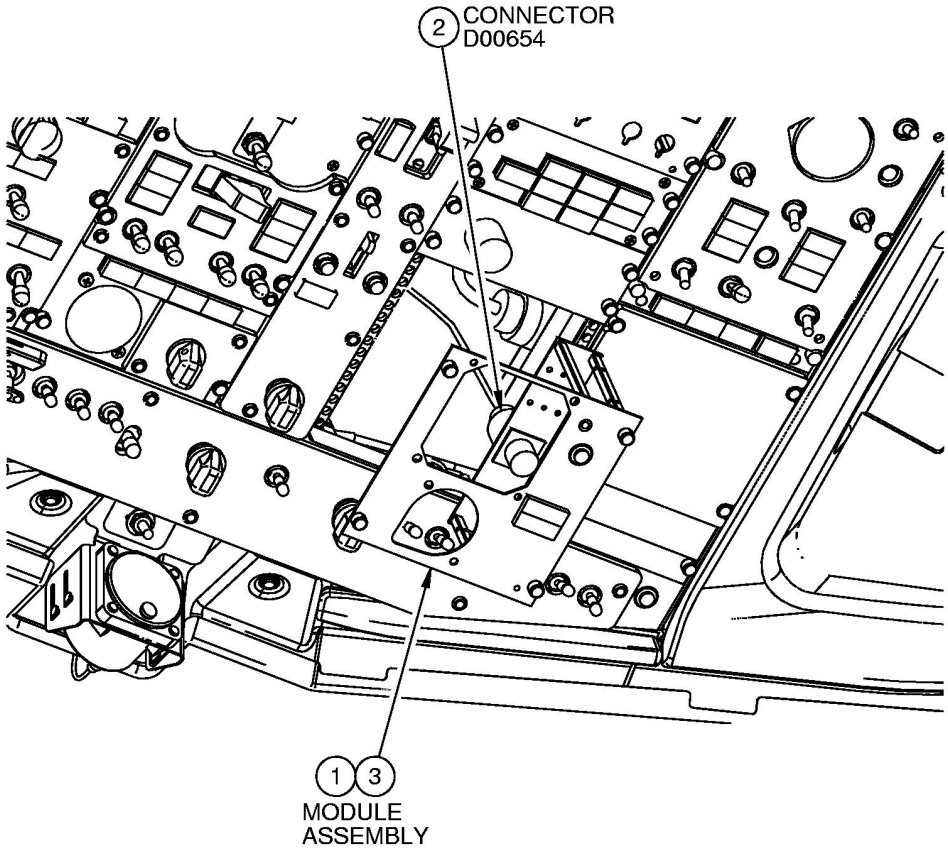


FIGURE 30: P5-16 CABIN ALTITUDE AND RATE OF CLIMB MODULE - INSTALLATION (SHEET 1 OF 2)

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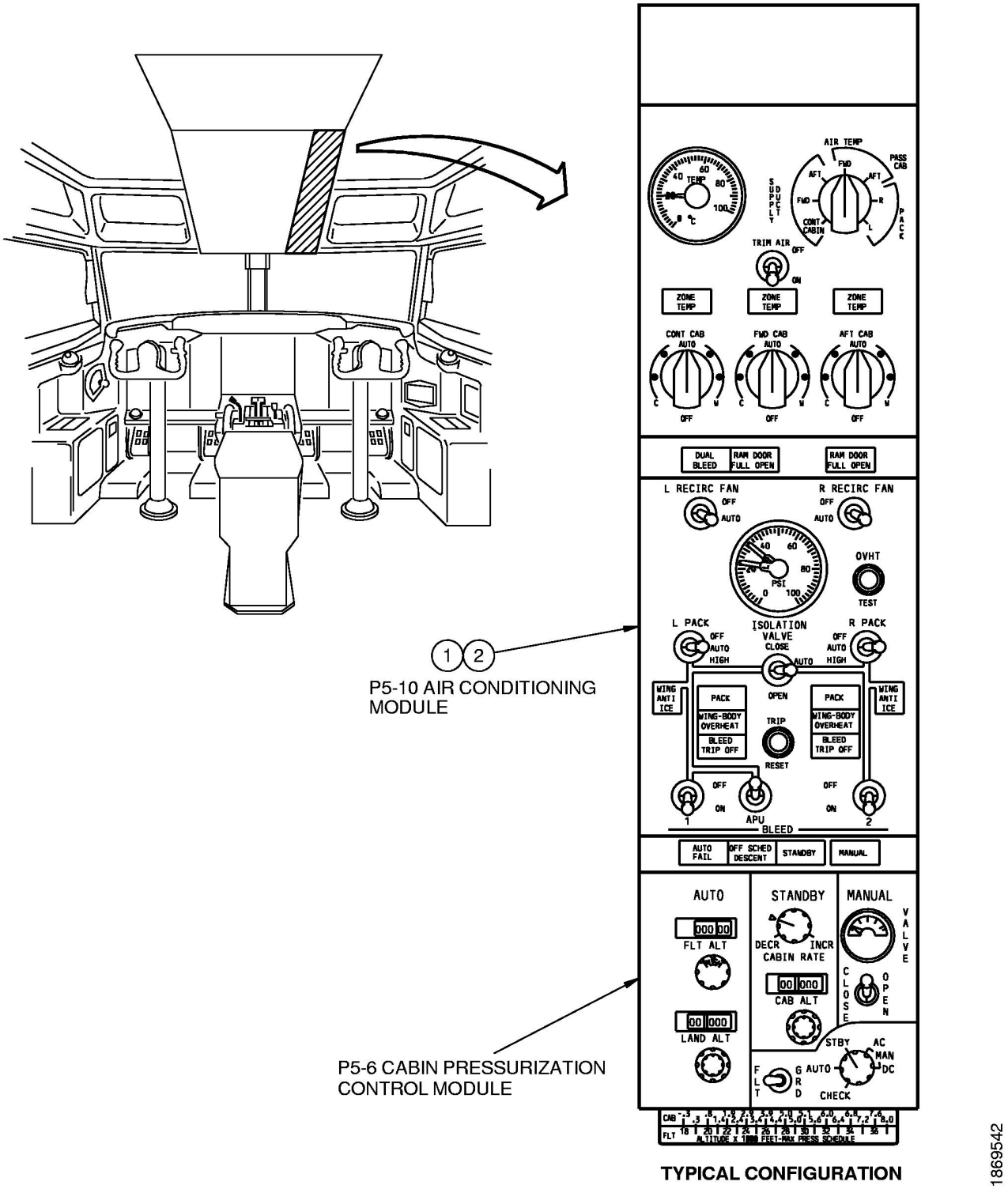
The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Lift	MODULE ASSY - CABIN ALTIMETER & RATE OF CLIMB, P5-16	233A3213-4	1	into the initial position
2	Connect	CONNECTOR	D00654	1	
3	Install (New)	MODULE ASSY - CABIN ALTIMETER & RATE OF CLIMB, P5-16	233A3213-4	1	(a) (b) (c)
(a) Tighten the four quick-release fasteners on the baseplate of the P5-16 module.					
(b) You can get the new part by reworking the existing part as given in BAE Systems SB 233A3213-21-01.					
(c) The panel part number 69-37334-12 cannot be modified and should be replaced.					

FIGURE 30: P5-16 CABIN ALTITUDE AND RATE OF CLIMB MODULE - INSTALLATION (SHEET 2 OF 2)

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This Figure applies only to: Group 8, 10-11, 13, 16-17, 20.



TYPICAL CONFIGURATION

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FIGURE 31: P5-10 AIR CONDITIONING PANEL - REPLACEMENT (SHEET 1 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	MODULE ASSY	69-37319-308	1	
2	Install (New)	MODULE ASSY	69-37319-311	1	(a)
(a) You can get the new part by reworking the existing part as given in BAE Systems SB 69-37319-31-05.					

FIGURE 31: P5-10 AIR CONDITIONING PANEL - REPLACEMENT (SHEET 2 OF 2)

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This Figure applies only to: Group 9, 14, 18.

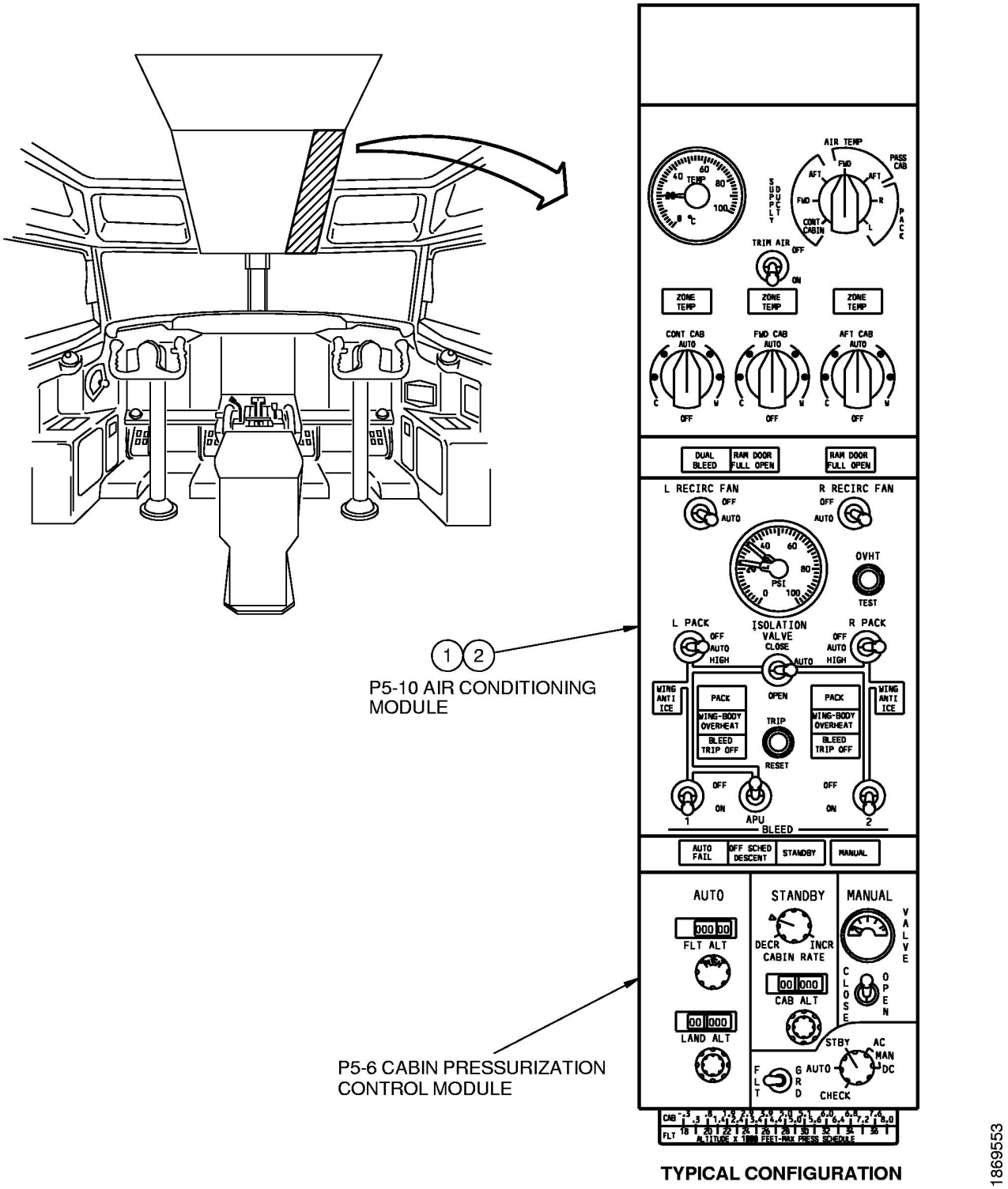


FIGURE 32: P5-10 AIR CONDITIONING PANEL - REPLACEMENT (SHEET 1 OF 2)

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The step numbers shown below agree with the numbers shown in the circle symbols in the figure. The QTY numbers shown below are the number of parts necessary for this figure.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	MODULE ASSY - AIR CONDITIONING, P5-10	69-37319-312	1	
2	Install (New)	MODULE ASSY - AIR CONDITIONING, P5-10	69-37319-313	1	(a)
(a) You can get the new part by reworking the existing part as given in BAE Systems SB 69-37319-31-05.					

FIGURE 32: P5-10 AIR CONDITIONING PANEL - REPLACEMENT (SHEET 2 OF 2)

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This Figure applies only to: Group 8-21.

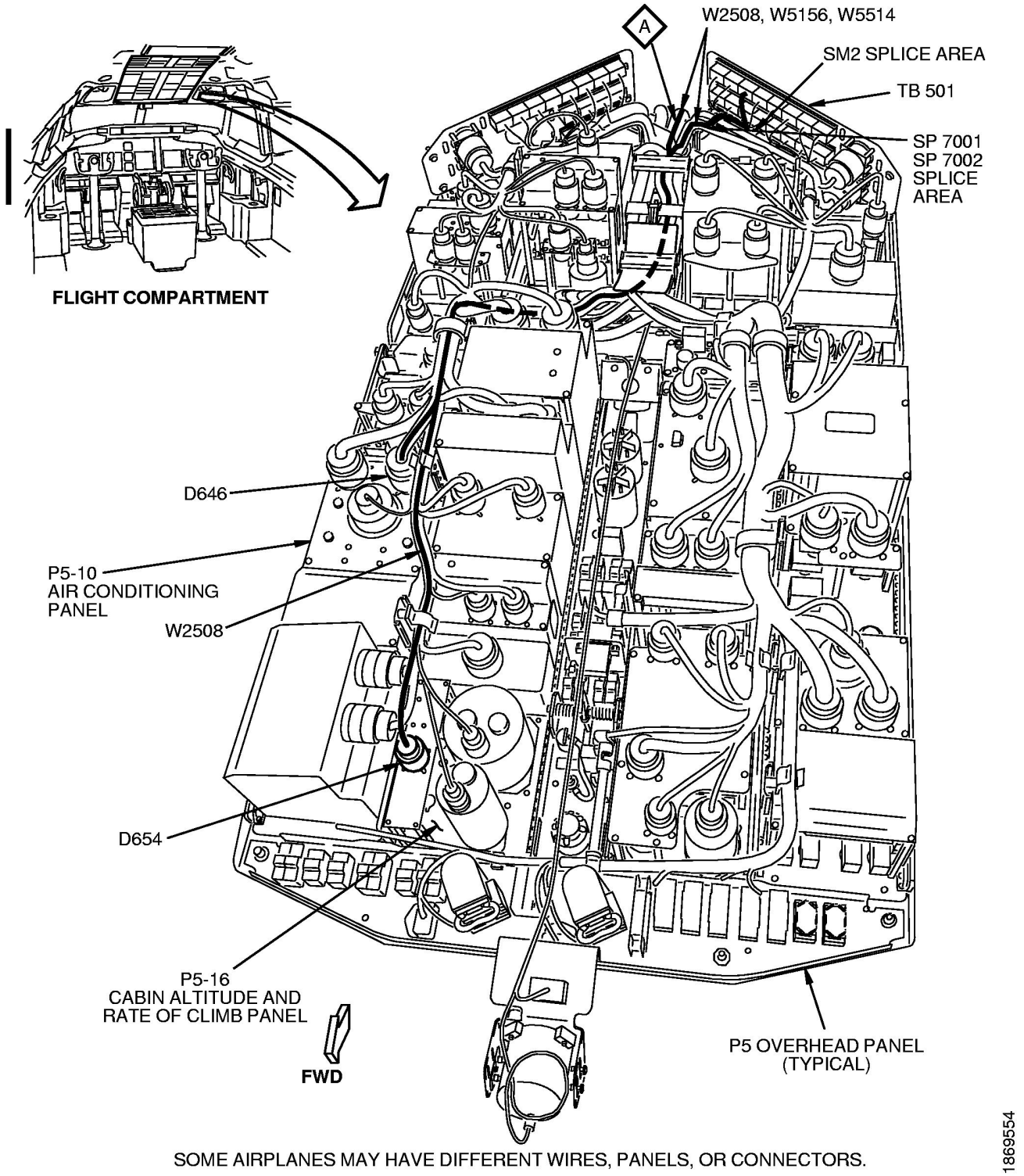
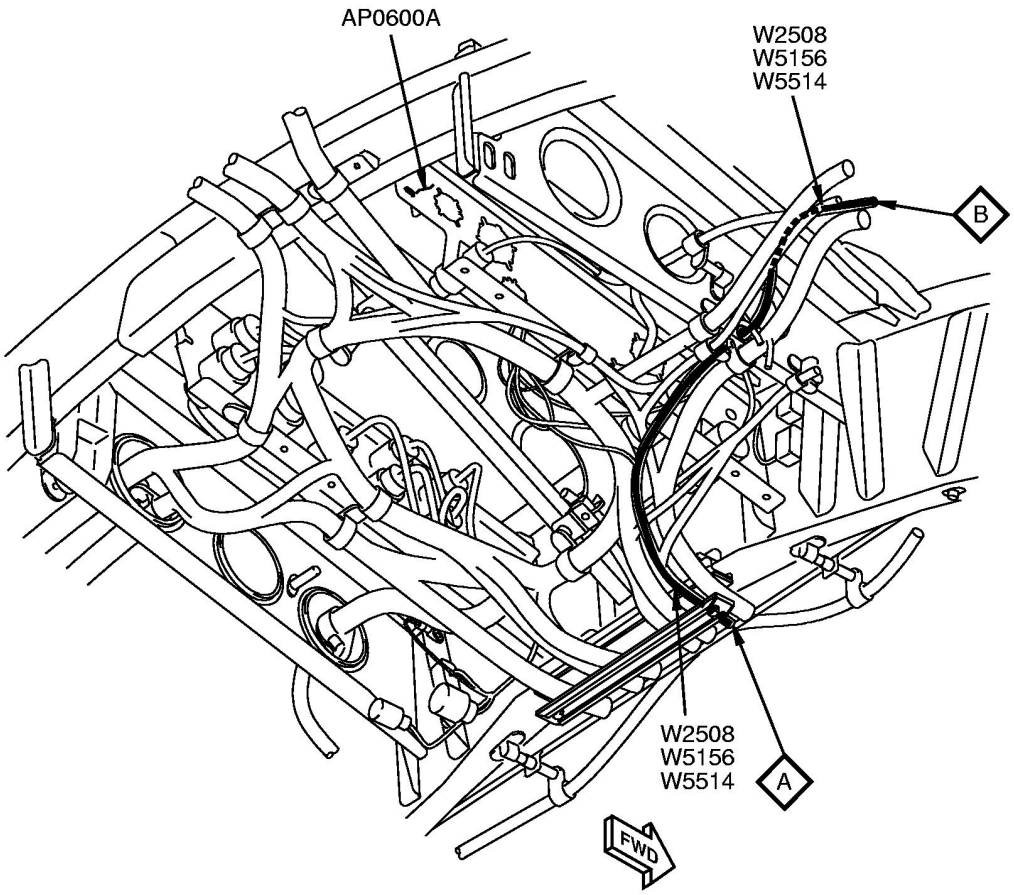


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 1 OF 11)

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FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 2 OF 11)

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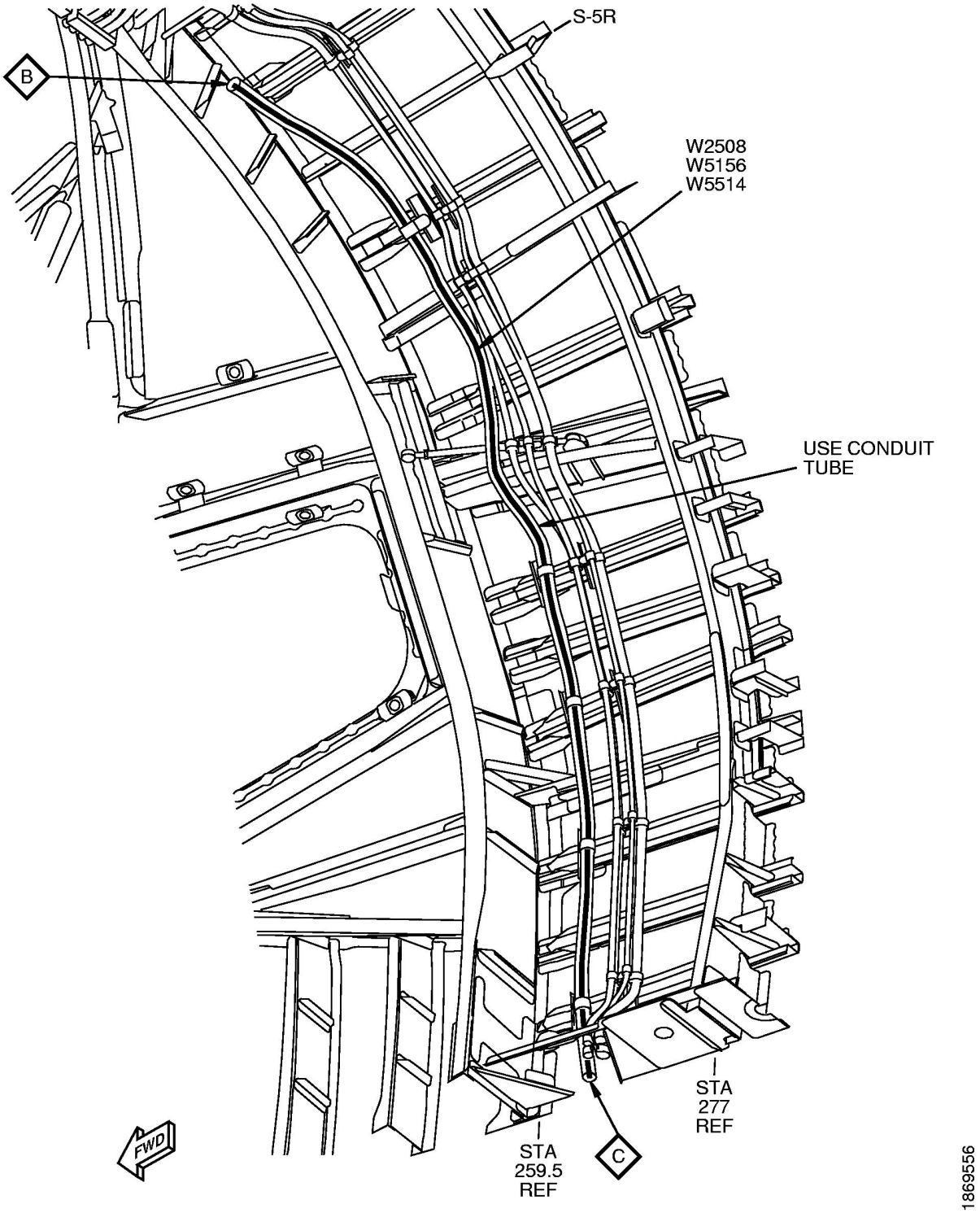


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 3 OF 11)

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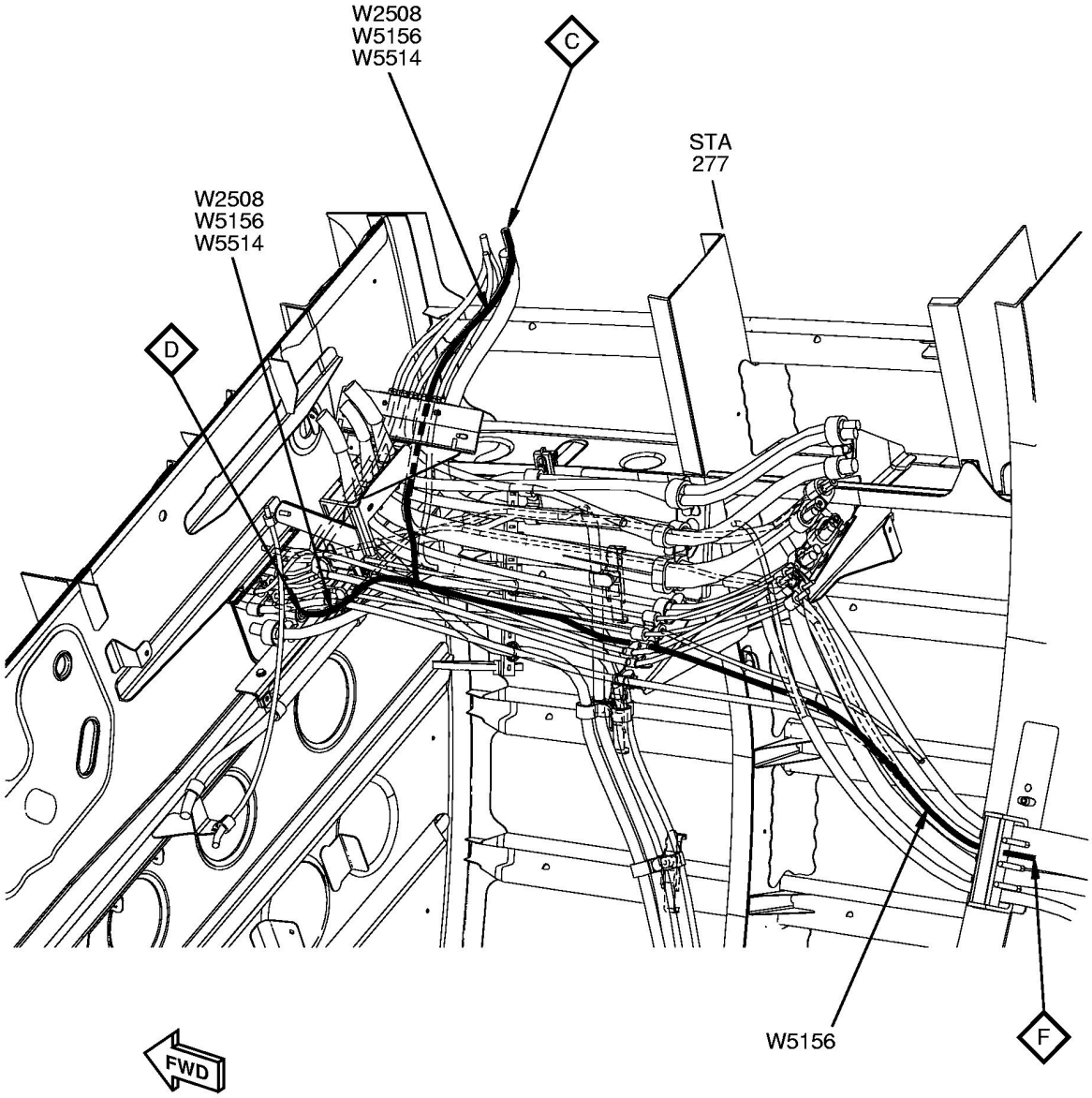


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 4 OF 11)

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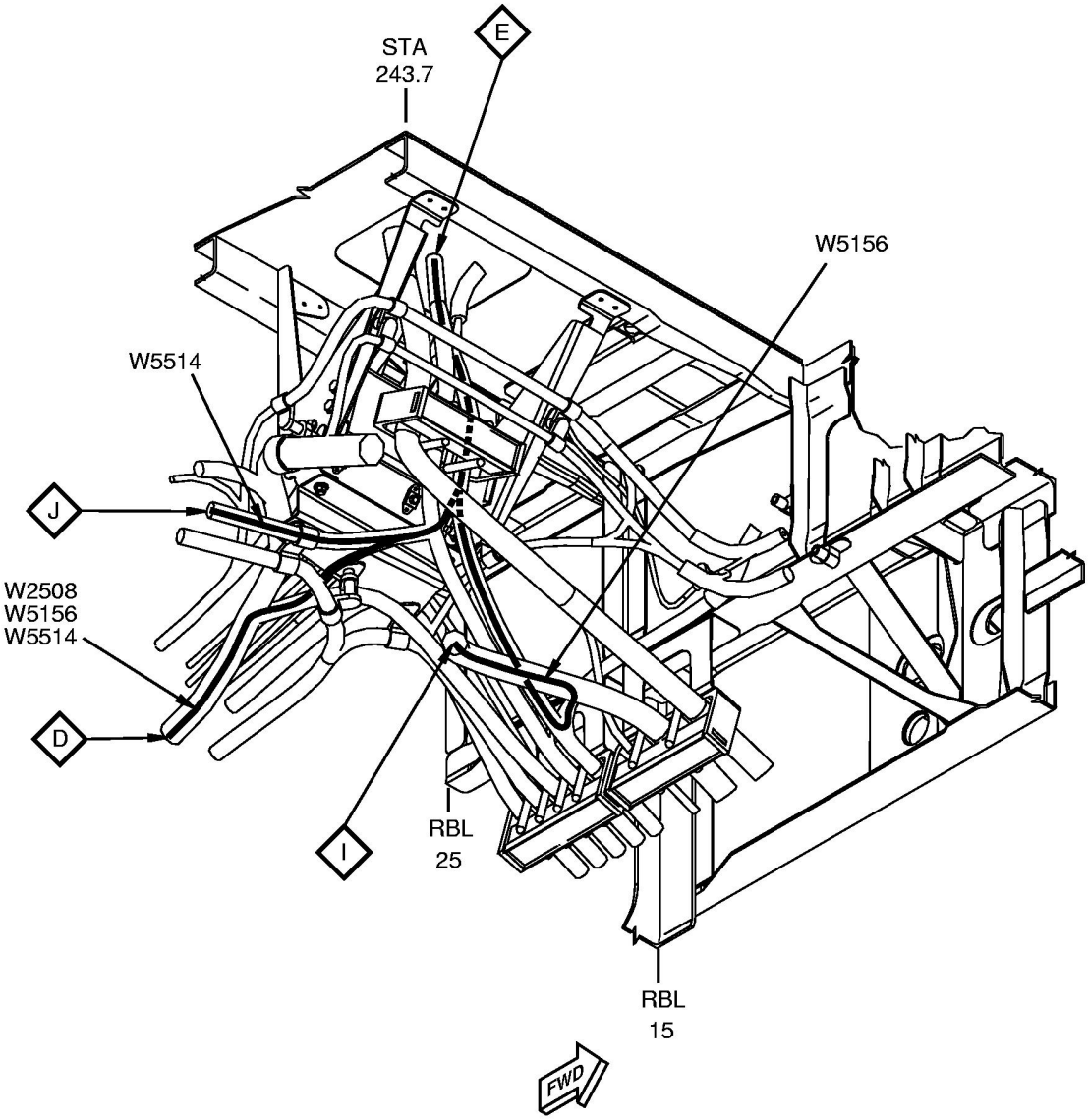
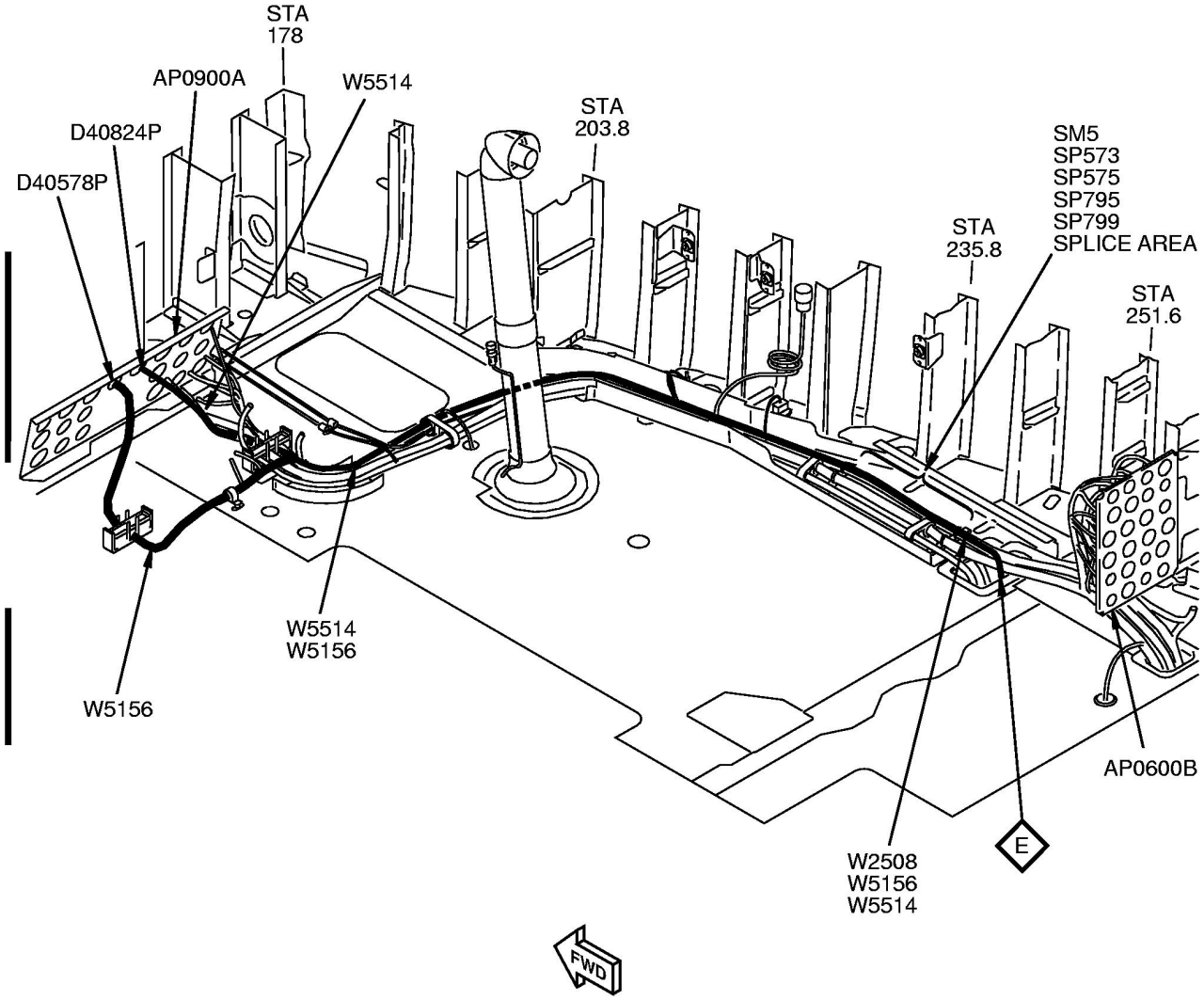


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 5 OF 11)

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RIGHT SIDE FLIGHT DECK FLOOR
STA 203.8 - STA 271

1869560

FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 6 OF 11)

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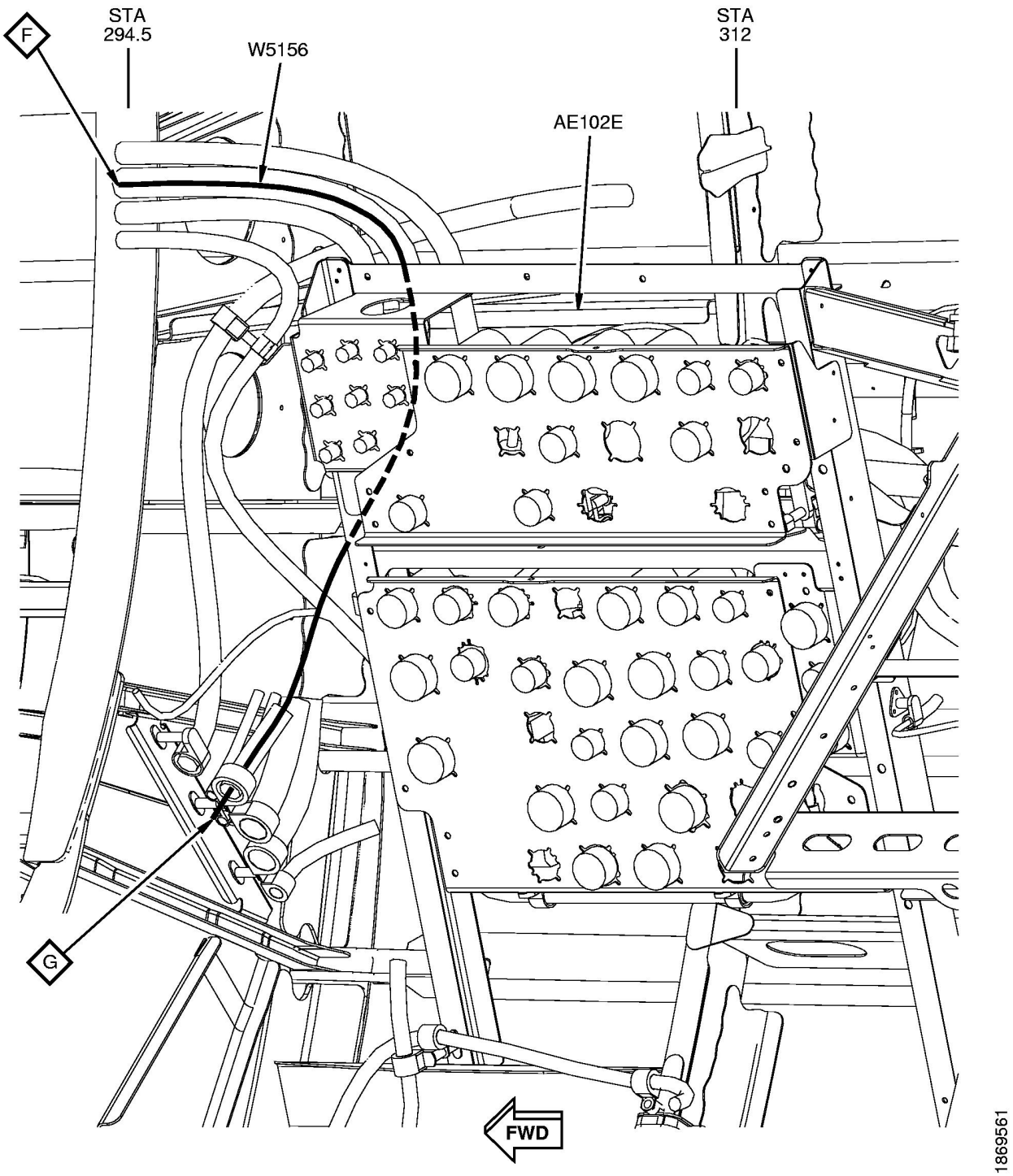


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 7 OF 11)

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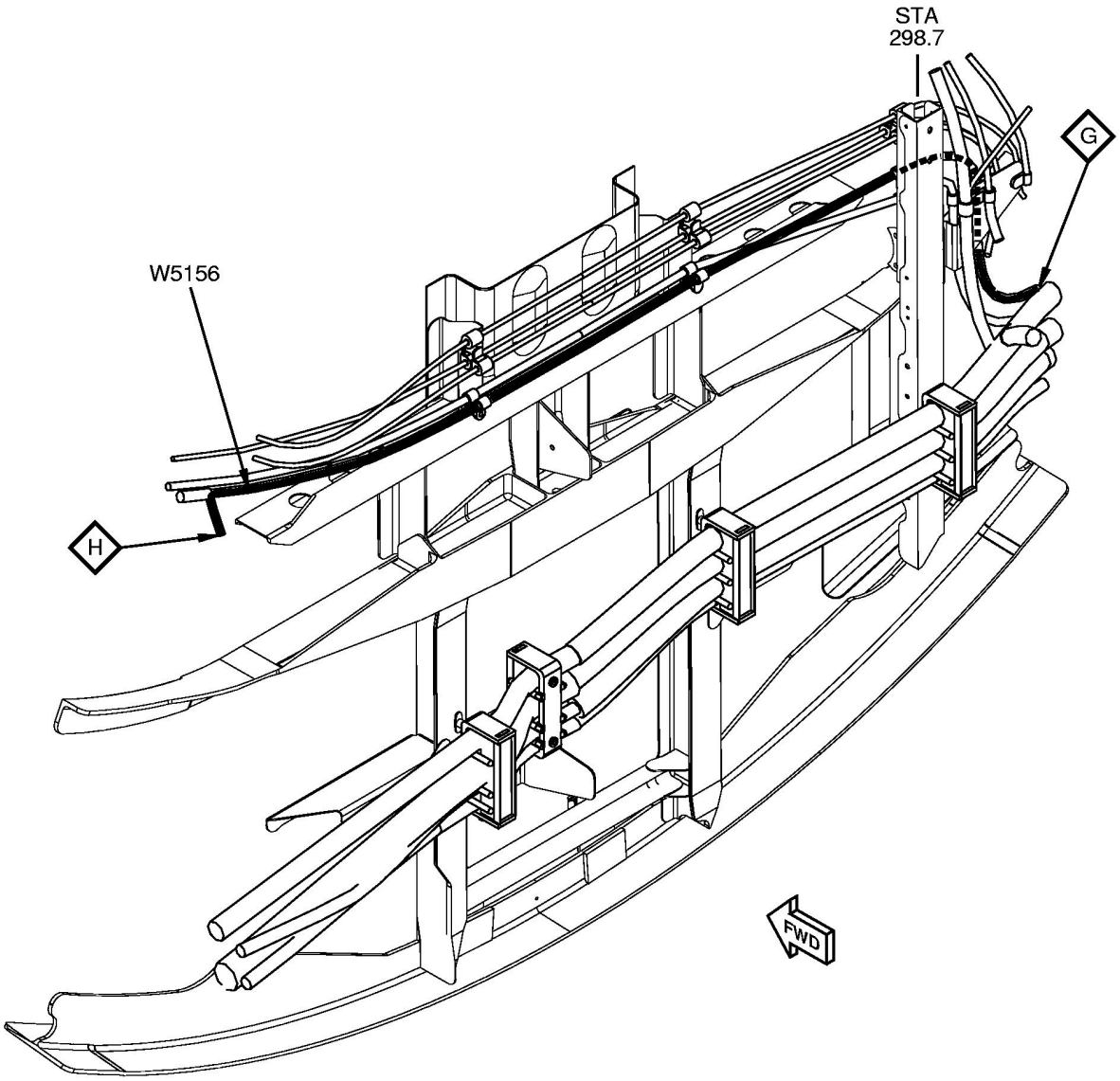


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 8 OF 11)

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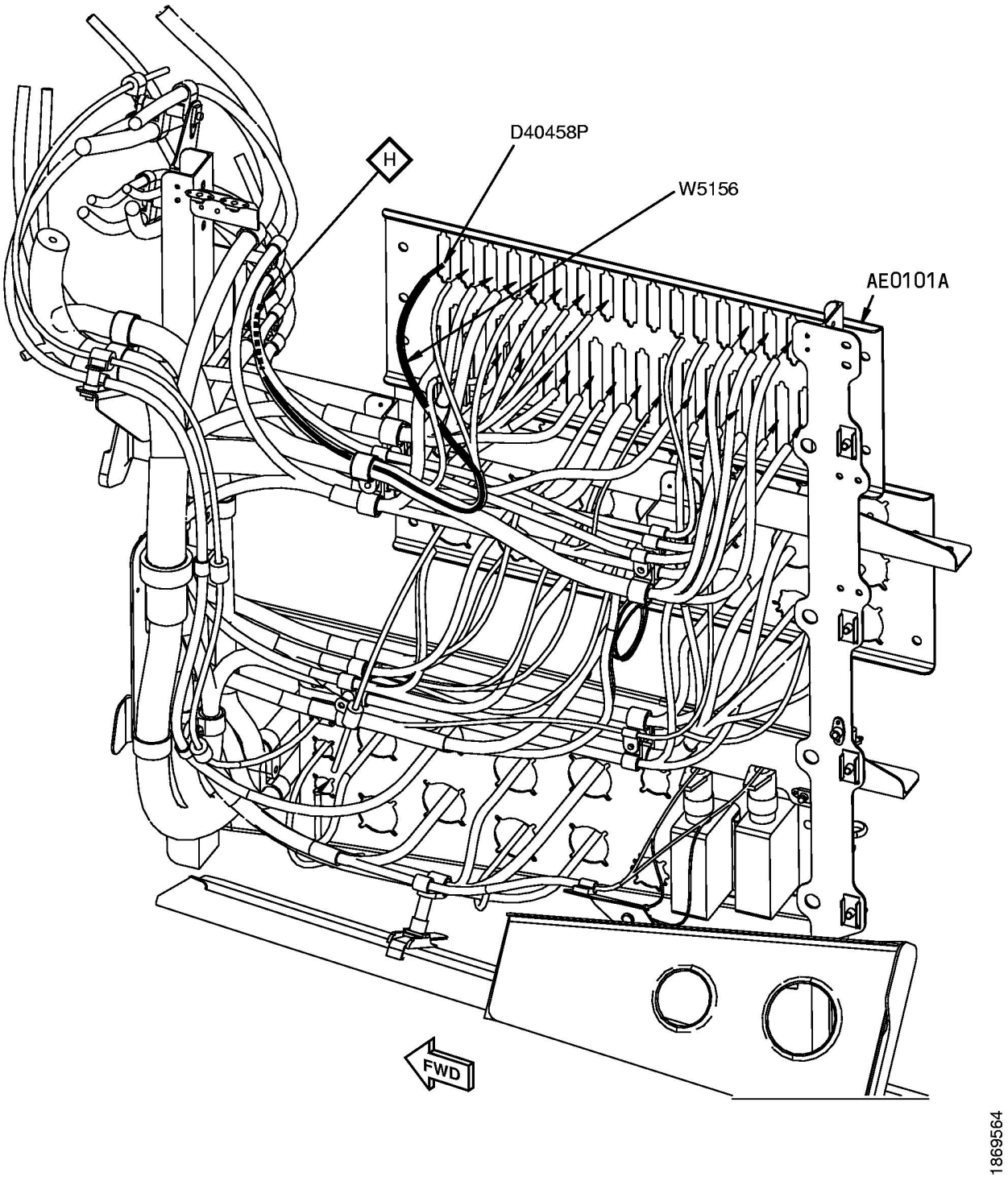


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 9 OF 11)

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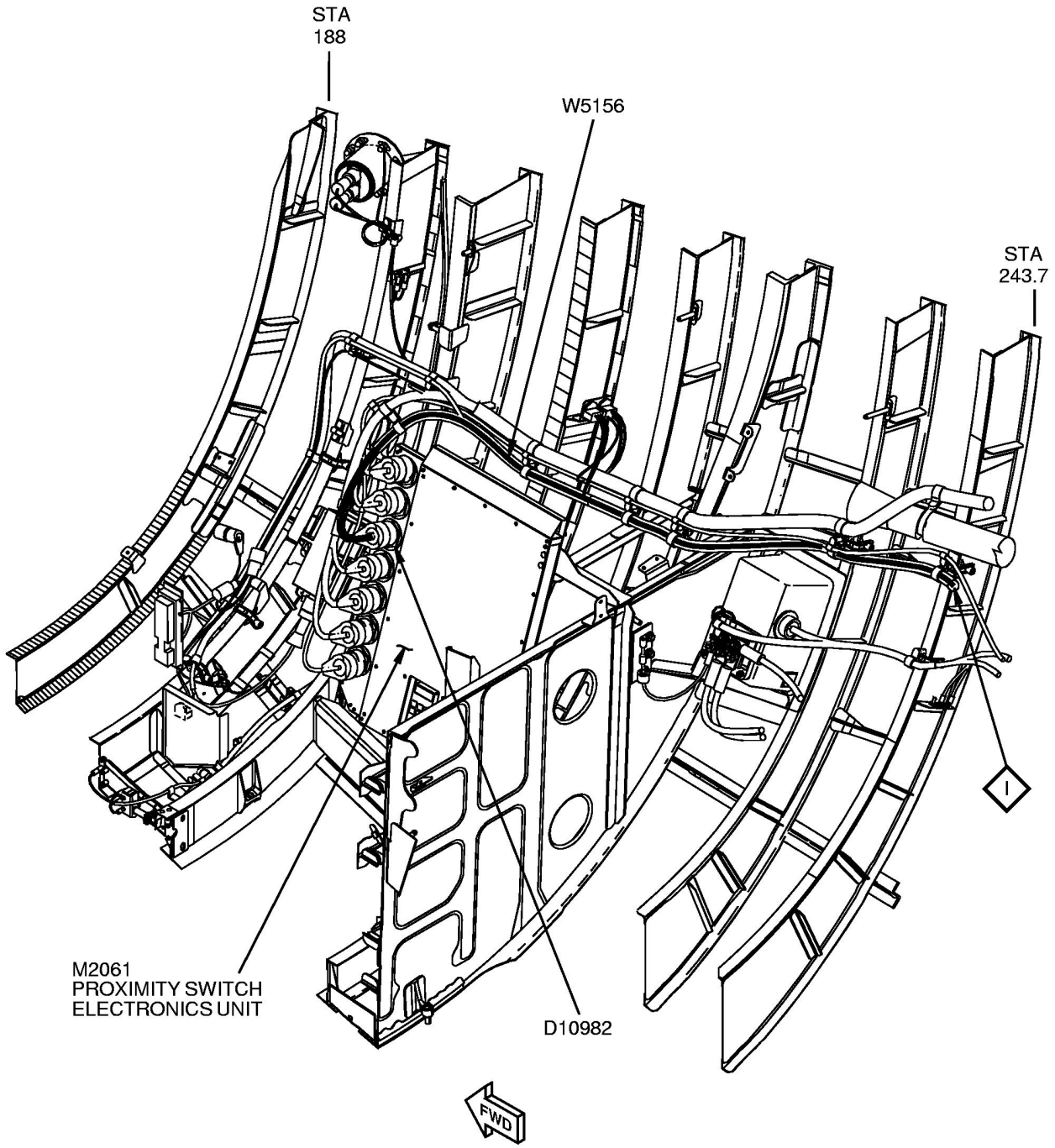


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 10 OF 11)

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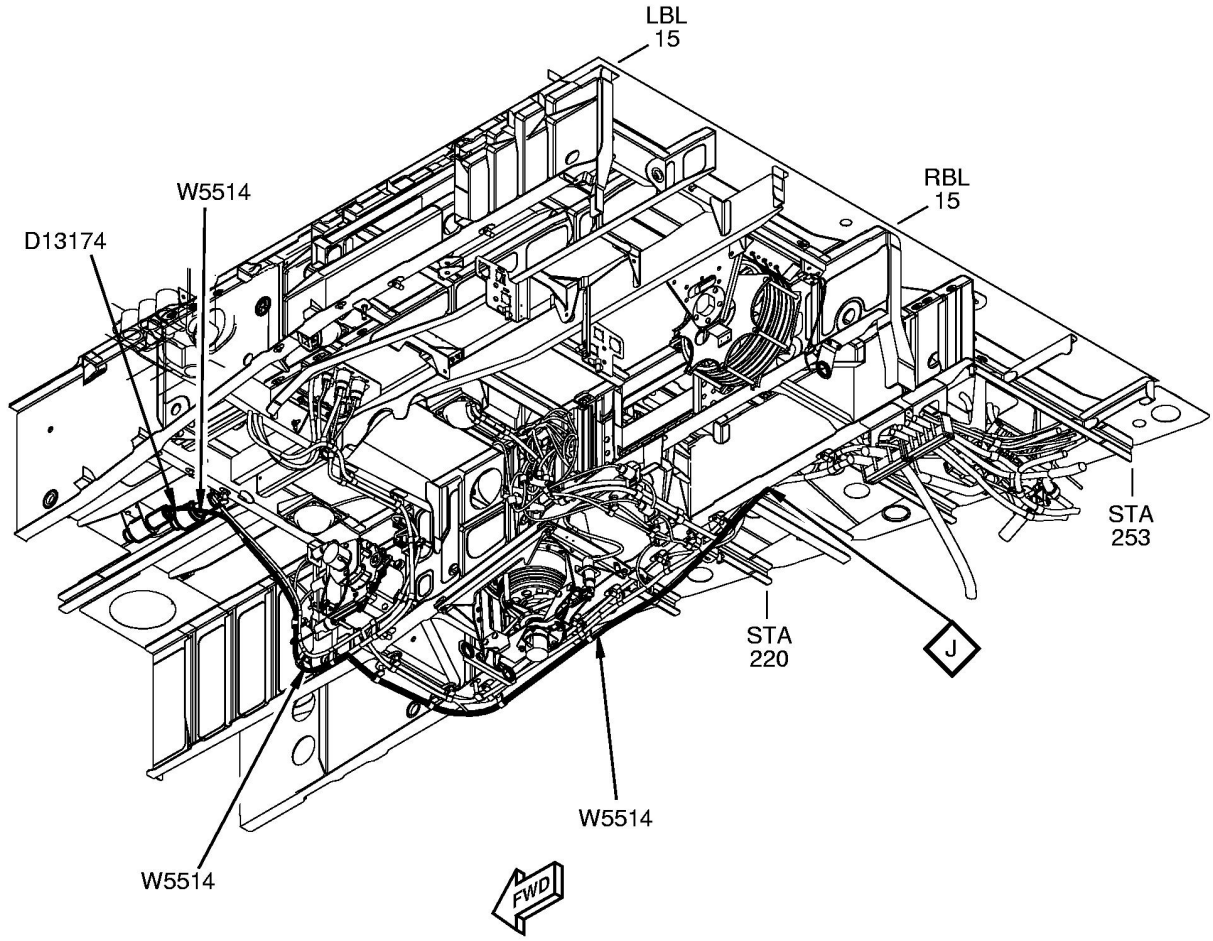


FIGURE 33: W2508, W5156 AND W5514 WIRE BUNDLES ROUTING (SHEET 11 OF 11)

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This Figure applies only to: Group 8-11, 16.

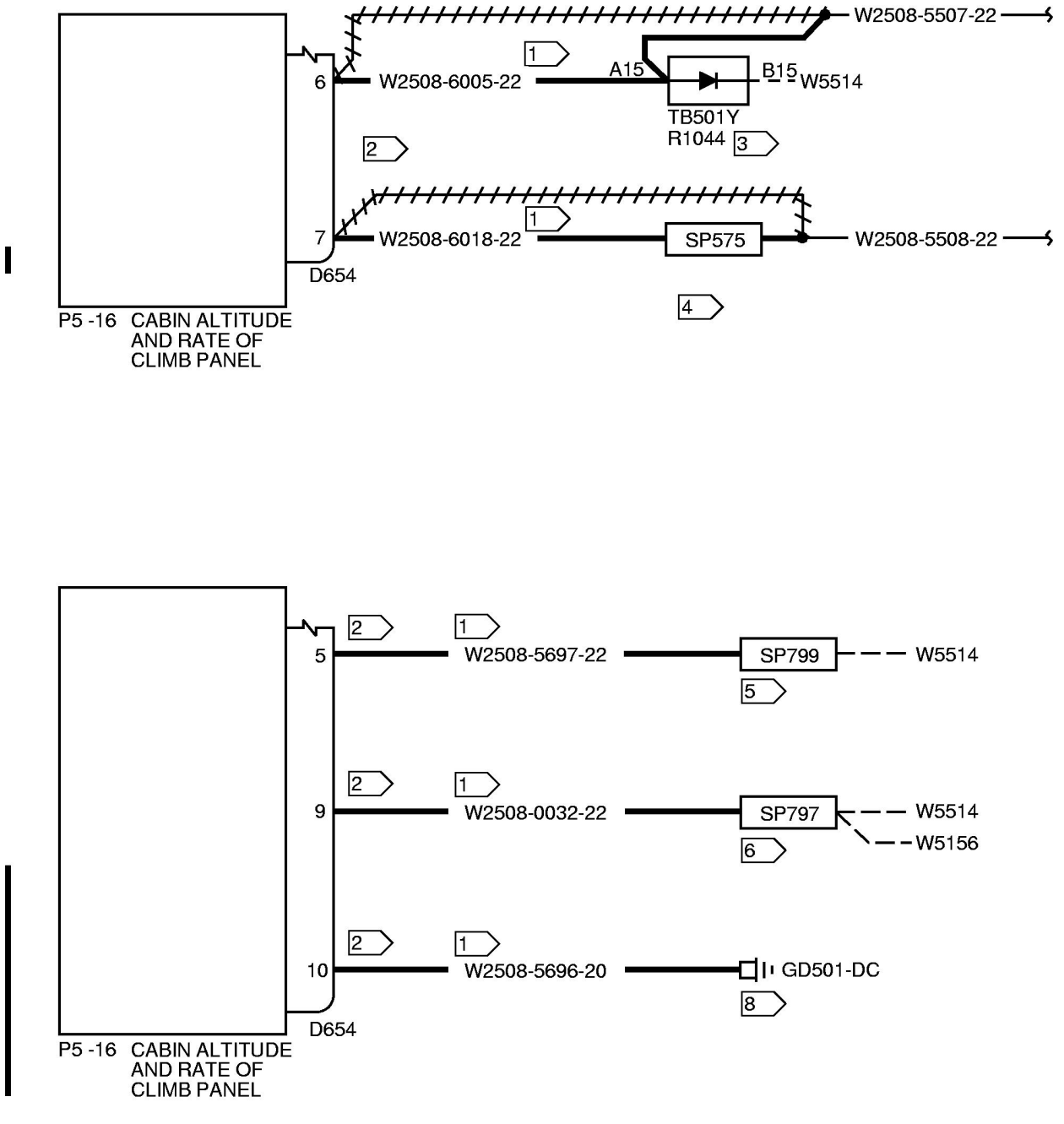
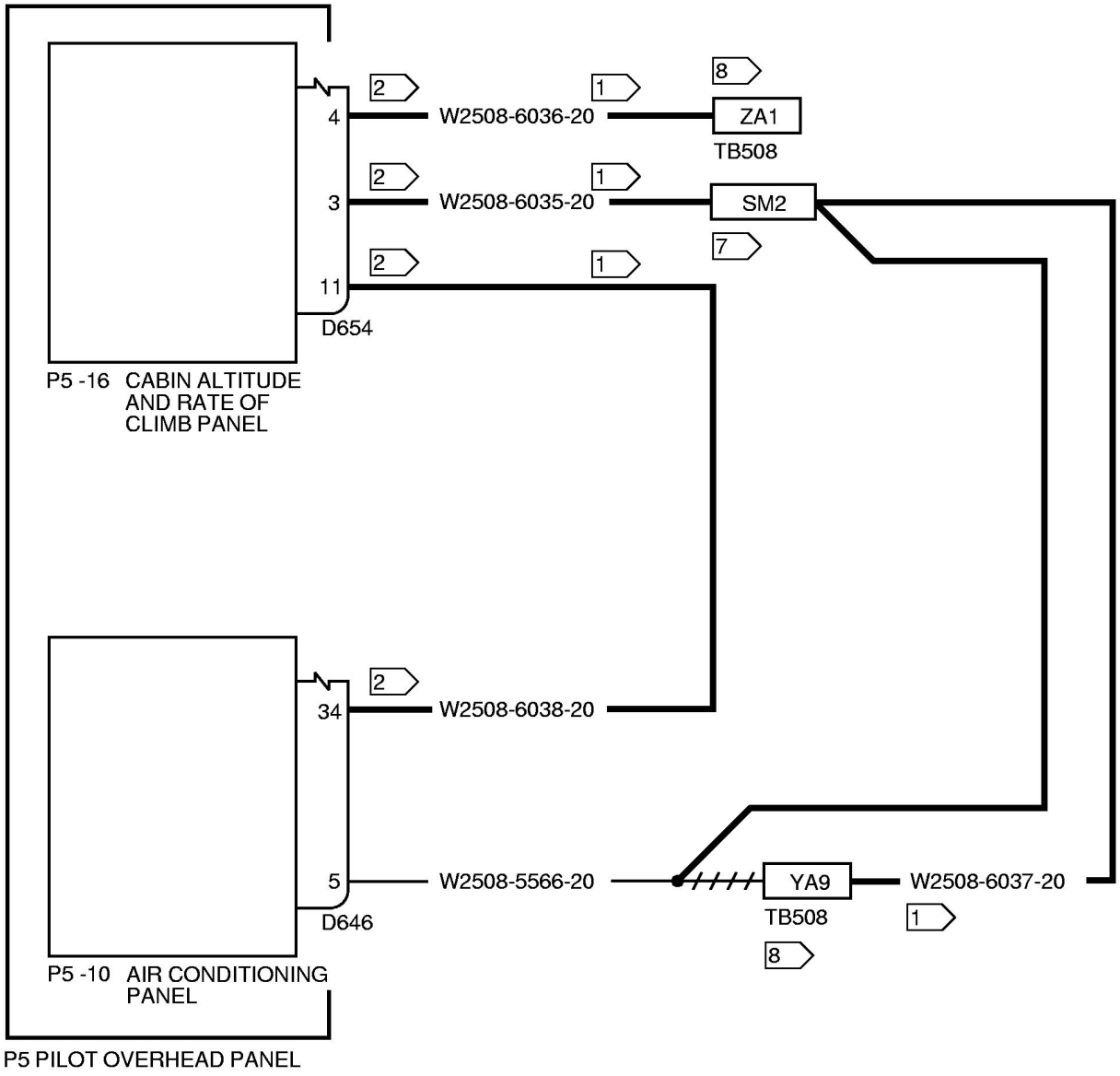


FIGURE 34: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 34: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 2 OF 4)

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

NOTE: Get the parts from Wire Kits 280A3143-103, 280A3143-112, 280A3143-113 and 280A3161-101.

NOTE: If an operator is accomplishing service bulletins 737-21-1165 and 737-31A1332 concurrently, wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22 do not need to be installed as shown in this Figure. This is because Figure 20 of service bulletin 737-21-1165 provides new wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-103W	1	(a)
	Wire List for W5514	280A3143-112W	1	(a)
	Wire List for W2508	280A3143-113W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
	WIRE LIST	280A3161-101W	1	(a)
2	CONTACT, SOCKET	BACC47CP1S	9	(b)
3	TERMINAL MODULE	S280W555-104	1	(c)
	TERMINAL MODULE	S280W555-751	1	(c)
	CONTACT, PIN, SIZE 20	S280W555-920	8	(c)
	ID Tape - Terminal Block Module	280A3143-10301	1	(d)
4	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10302	1	
5	SPLICE	D-436-37	1	(e)
	ASSY -112 I.D. SLEEVE "SP799"	280A3143-11201	1	
6	SPLICE	D-436-37	1	(e)
7	SPLICE	D-436-37	1	(e)
	Assy -113 I.D. SLEEVE "SM2"	280A3143-11301	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	3	(c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Install ID tape within 6 inches of equipment.				

FIGURE 34: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 3 OF 4)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(e) Refer to SWPM 20-30-12 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

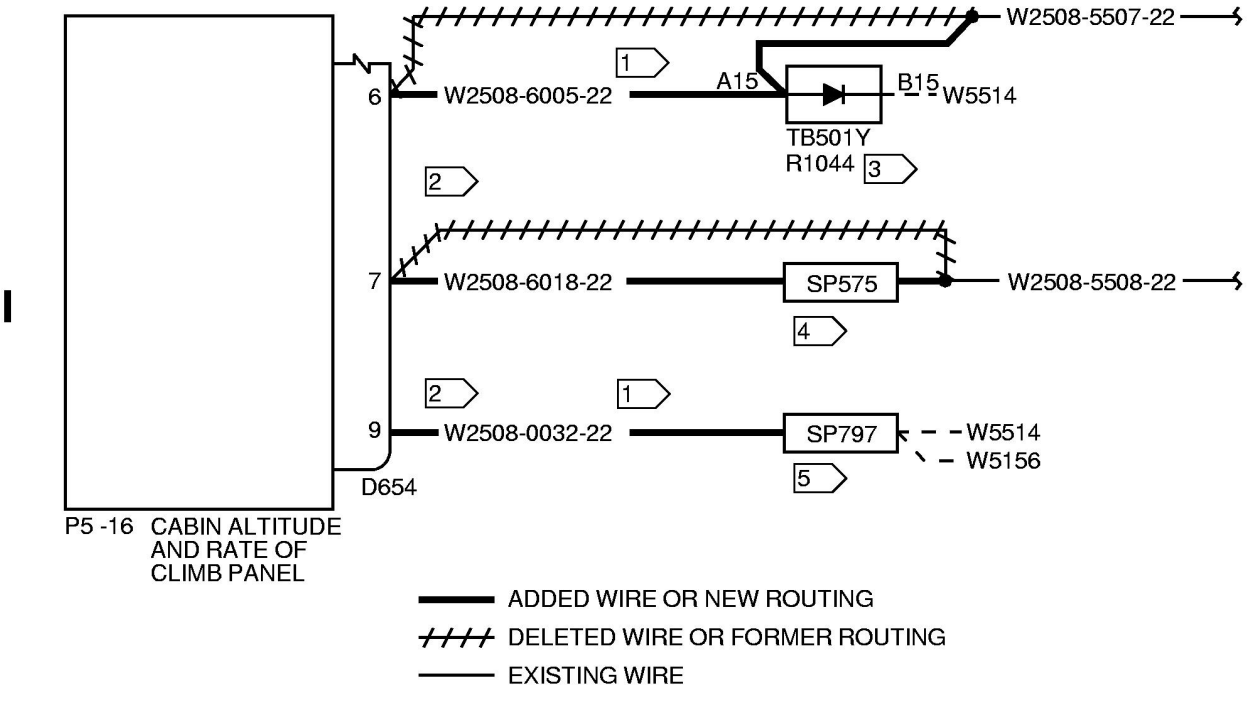
WIRE LIST - CUT AND CODE AS REQUIRED -101W, -103W, -112W, -113W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	0032	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	5696	20	PA	144	BMS 13-48, TYPE 10, CLASS 1
W2508	5697	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1
W2508	6035	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6036	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6037	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6038	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1

FIGURE 34: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 12.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-103 and 280A3143-112.

NOTE: If an operator is accomplishing service bulletins 737-21-1165 and 737-31A1332 concurrently, wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22 do not need to be installed as shown in this Figure. This is because Figure 20 of service bulletin 737-21-1165 provides new wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-103W	1	(a)
	Wire List for W5514	280A3143-112W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
2	CONTACT, SOCKET	BACC47CP1S	3	(b)

FIGURE 35: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
3	TERMINAL MODULE	S280W555-104	1	(c)
	TERMINAL MODULE	S280W555-751	1	(c)
	CONTACT, PIN, SIZE 20	S280W555-920	8	(c)
	ID Tape - Terminal Block Module	280A3143-10301	1	(d)
4	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10302	1	
5	SPLICE	D-436-37	1	(e)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Install ID tape within 6 inches of equipment.				
(e) Refer to SWPM 20-30-12 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -103W, -112W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	0032	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1

FIGURE 35: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 13-14.

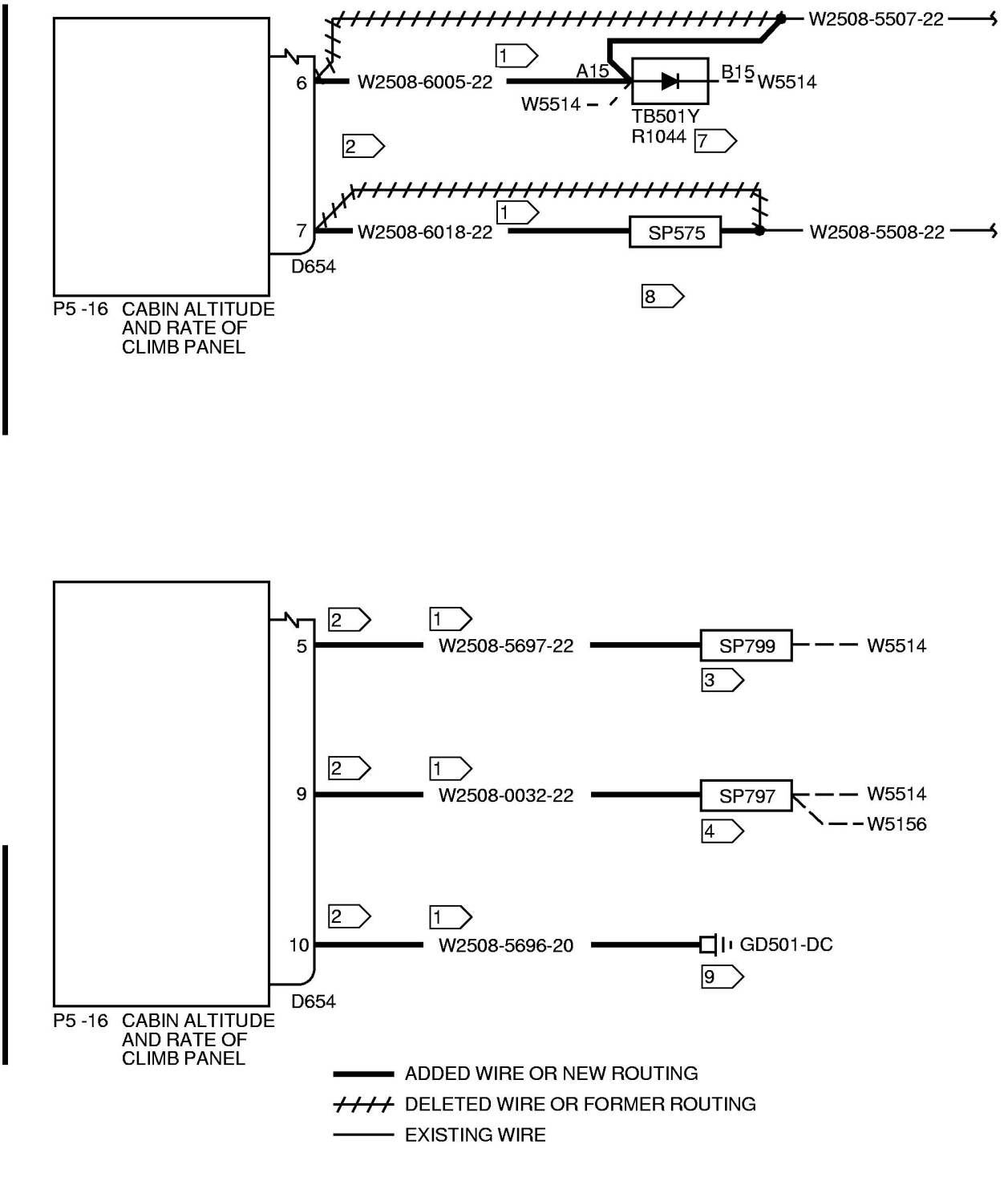
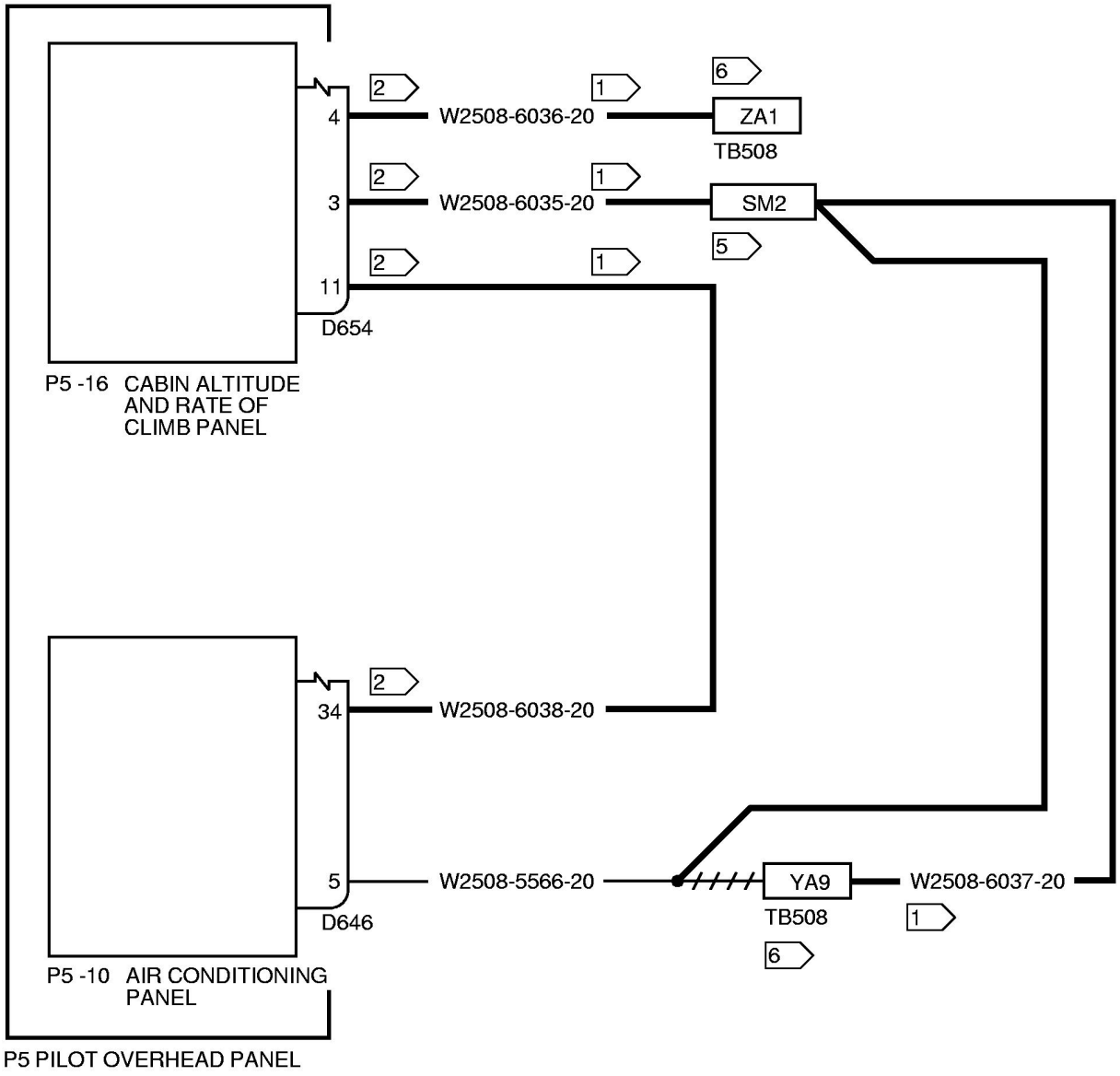


FIGURE 36: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11, 737-600/700/800/900 WDM 33-18-36

FIGURE 36: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 2 OF 4)

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

NOTE: Get the parts from Wire Kits 280A3143-103, 280A3143-112, 280A3143-113 and 280A3161-101.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W5514	280A3143-112W	1	(a)
	Wire List for W2508	280A3143-113W	1	(a)
	LACING TAPE	280A2001-1	1	(e)
	wire list	280A3143-103W	1	(a)
2	CONTACT, SOCKET	BACC47CP1S	9	(b)
3	SPLICE	D-436-37	1	(c)
	ASSY -112 I.D. SLEEVE "SP799"	280A3143-11201	1	
4	SPLICE	D-436-37	1	(c)
5	SPLICE	D-436-37	1	(c)
	Assy -113 I.D. SLEEVE "SM2"	280A3143-11301	1	
6	CONTACT, PIN, SIZE 20	S280W555-920	2	(d)
7	TERMINAL MODULE	S280W555-104	1	(d)
	TERMINAL MODULE	S280W555-751	1	(d)
	CONTACT, PIN, SIZE 20	S280W555-920	1	(d)
	ID Tape - Terminal Block Module	280A3143-10301	1	
8	SPLICE - SEALING SLEEVE	D-436-59	1	(c)
	splice id	280A3143-10302	1	

(a) Identify as shown. Cut to the necessary length.

(b) Refer to SWPM 20-61-11 as an accepted procedure.

(c) Refer to SWPM 20-30-12 as an accepted procedure.

(d) Refer to SWPM 20-90-15 as an accepted procedure.

(e) Refer to SWPM 20-10-19 as an accepted procedure.

WIRE LIST - CUT AND CODE AS REQUIRED -101W, -103W, -112W, -113W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION

FIGURE 36: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 3 OF 4)

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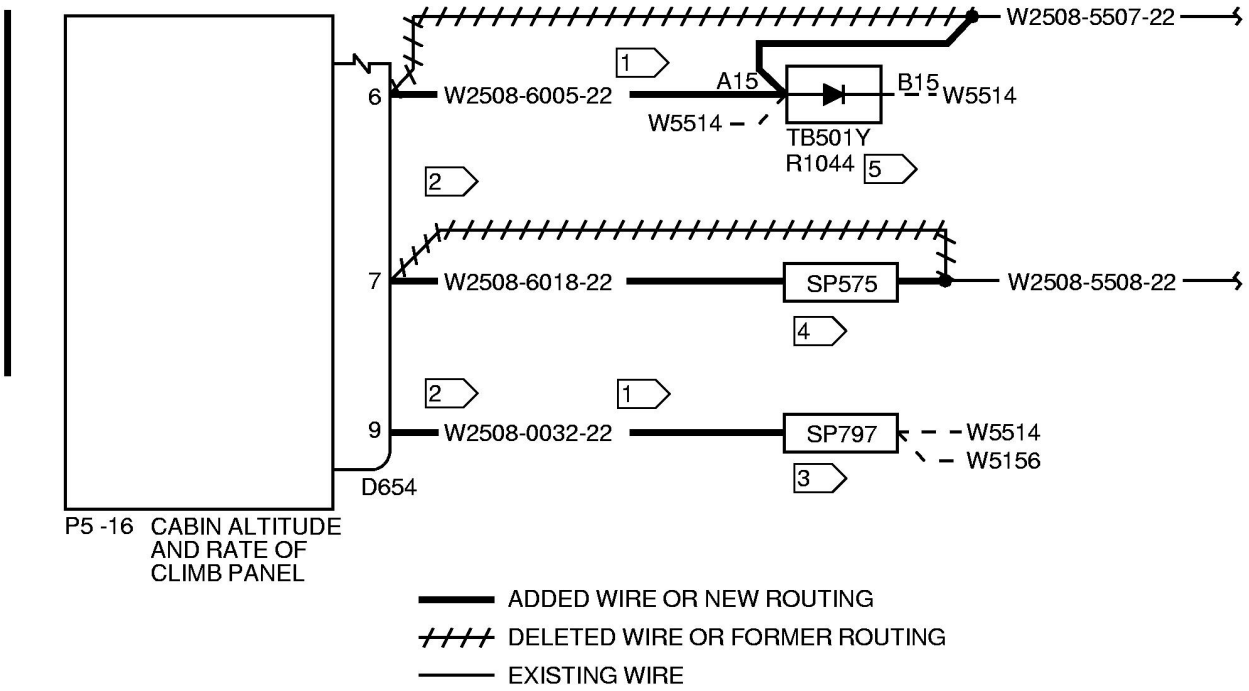
W2508	0032	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	5696	20	PA	144	BMS 13-48, TYPE 10, CLASS 1
W2508	5697	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1
W2508	6035	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6036	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6037	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6038	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1

FIGURE 36: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 15, 19, 21.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-103 and 280A3143-112.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W5514	280A3143-112W	1	(a)
	LACING TAPE	280A2001-1	1	(e)
	wire list	280A3143-103W	1	
2	CONTACT, SOCKET	BACC47CP1S	3	(b)
3	SPLICE	D-436-37	1	(c)
4	SPLICE - SEALING SLEEVE	D-436-59	1	(c)
	splice id	280A3143-10302	1	

FIGURE 37: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 2)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
5	TERMINAL MODULE	S280W555-104	1	(d)
	TERMINAL MODULE	S280W555-751	1	(d)
	CONTACT, PIN, SIZE 20	S280W555-920	1	(d)
	ID Tape - Terminal Block Module	280A3143-10301	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-30-12 as an accepted procedure.				
(d) Refer to SWPM 20-90-15 as an accepted procedure.				
(e) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -103W, -112W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	0032	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1

FIGURE 37: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 8-12, 16.

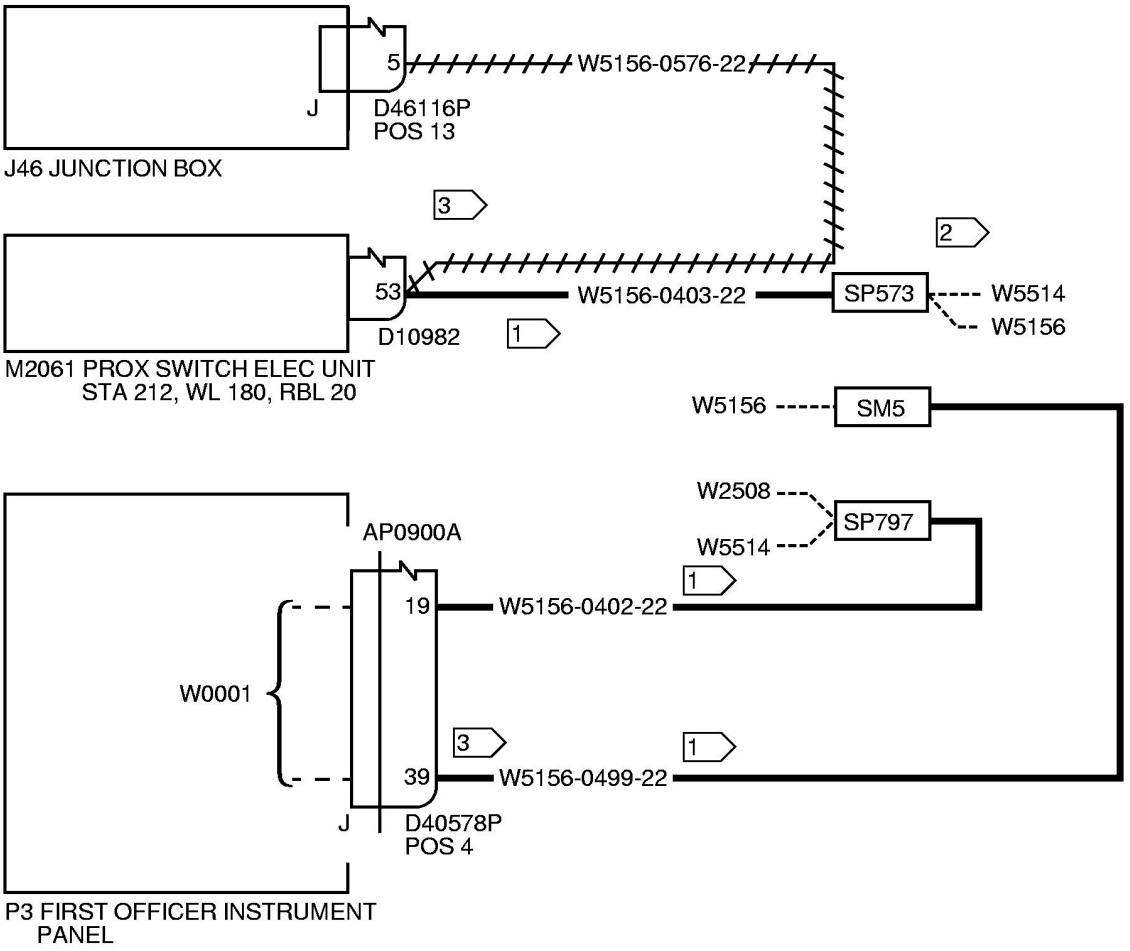
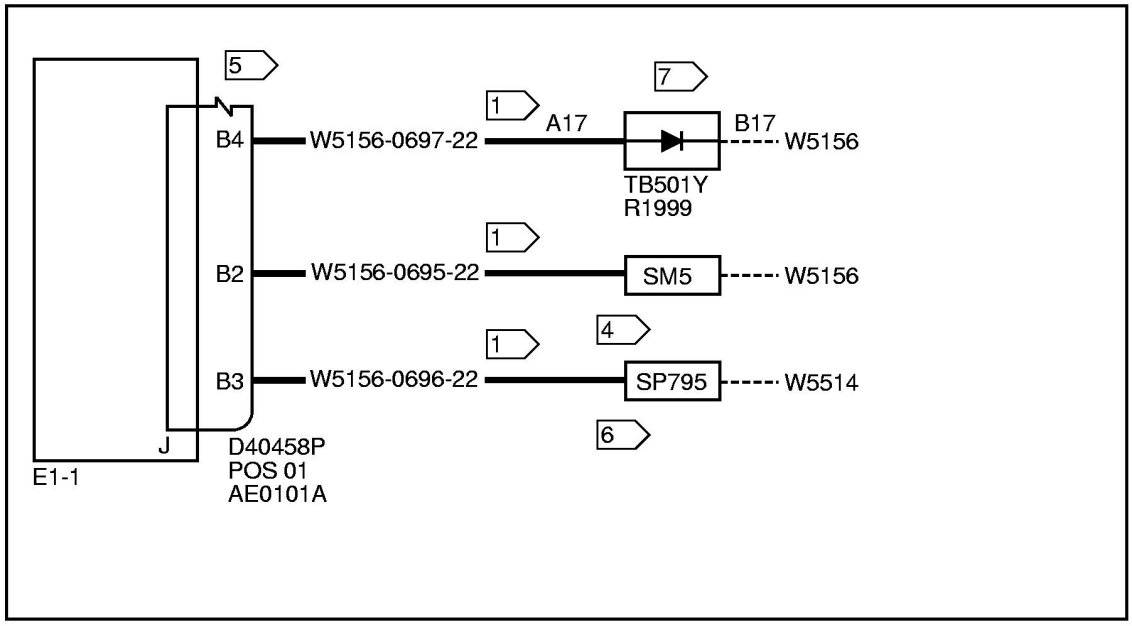
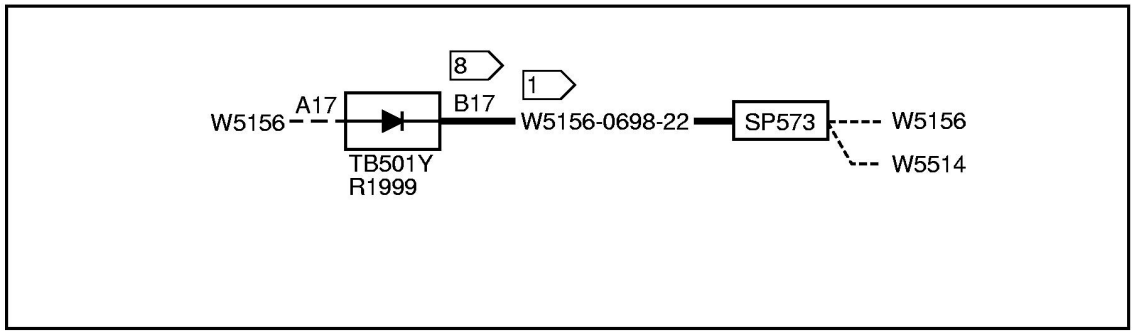


FIGURE 38: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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

1870223

REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 38: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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

NOTE: Get the parts from Wire Kits 280A3143-104, 280A3143-110 and 280A3143-115.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-104W	1	(a)
	Wire List for W5156.	280A3143-110W	1	(a)
	Wire List for W5156.	280A3143-115W	-	(a)
	LACING TAPE	280A2001-1	1	(f)
2	SPLICE - SEALING SLEEVE	D-436-59	2	(b)
	spice id	280A3143-10401	1	
3	CONTACT, SOCKET	BACC47CP1S	3	(c)
4	SPLICE	D-436-37	1	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
5	CONTACT, PIN, SIZE 20	CTA-0166	3	(d)
6	SPLICE	D-436-37	1	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
7	TERMINAL MODULE	S280W555-104	1	(e)
	TERMINAL MODULE	S280W555-751	1	(e)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
	ID Tape - Terminal Block Module	280A3143-11001	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-12 as an accepted procedure.				
(c) Refer to SWPM 20-61-11 as an accepted procedure.				
(d) Refer to SWPM 20-74-11 as an accepted procedure.				
(e) Refer to SWPM 20-90-15 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 38: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 3 OF 4)

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WIRE LIST - CUT AND CODE AS REQUIRED -104W, -110W, -115W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0402	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W5156	0499	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1
W5156	0403	22	CQ	140	BMS 13-58, TYPE 1, CLASS 1
W5156	0695	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0696	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0698	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1

FIGURE 38: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 13-15, 21.

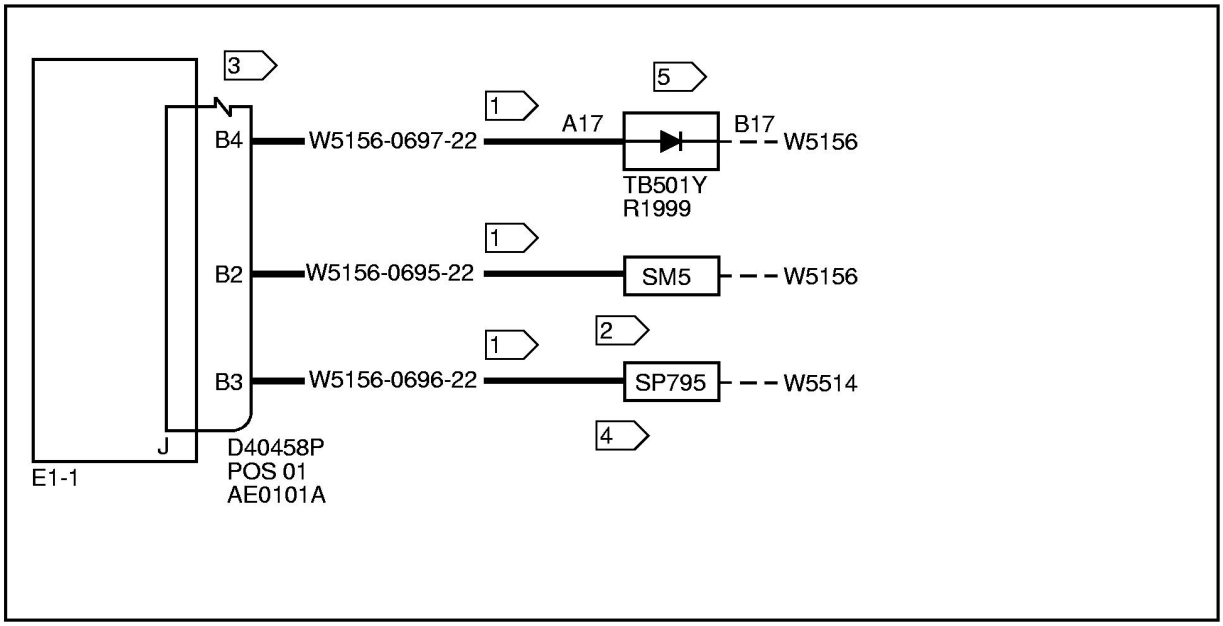
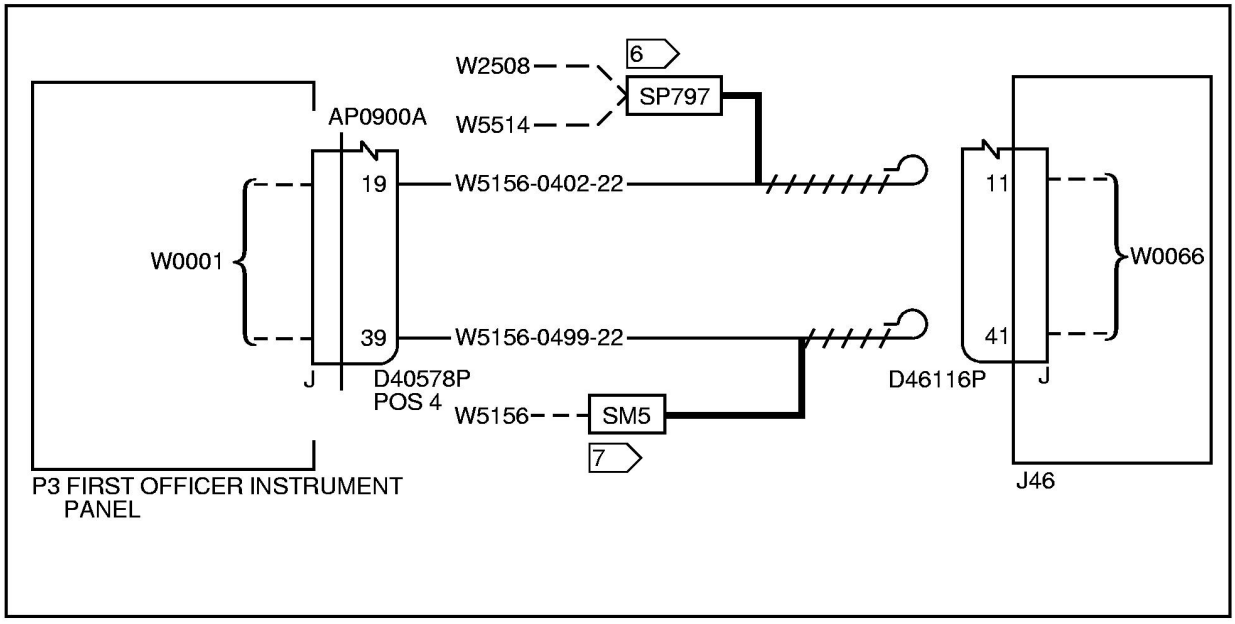
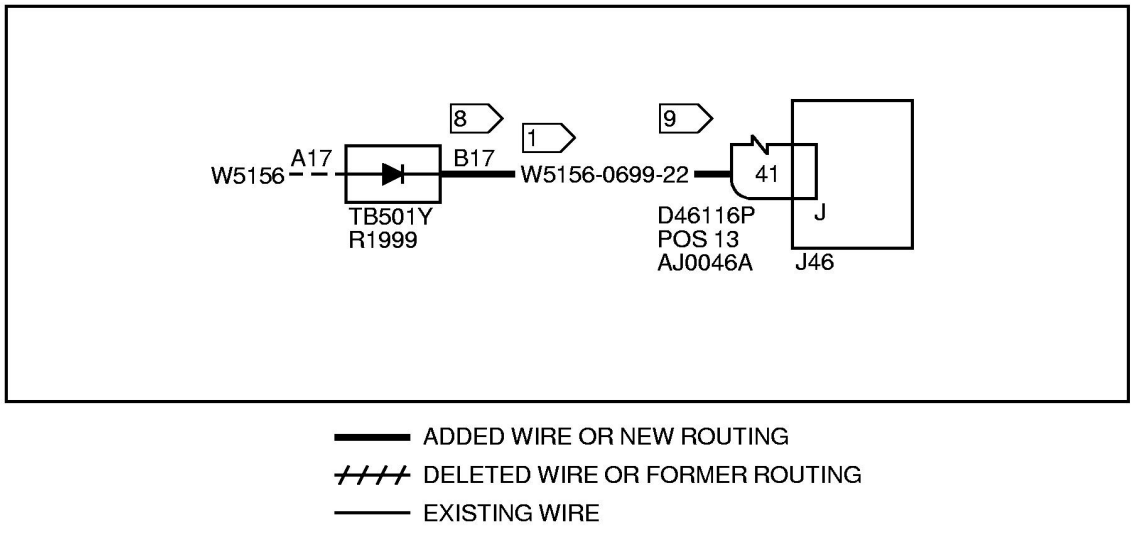


FIGURE 39: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 1 OF 4)

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1870234

REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 39: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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

NOTE: Get the parts from Wire Kits 280A3143-110 and 280A3143-116.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W5156.	280A3143-110W	1	(a)
	Wire List for W5156.	280A3143-116W	1	(a)
	LACING TAPE	280A2001-1	-	(f)
2	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
3	CONTACT, PIN, SIZE 20	CTA-0166	4	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
5	TERMINAL MODULE	S280W555-104	1	(d)
	TERMINAL MODULE	S280W555-751	1	(d)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(d)
	ID Tape - Terminal Block Module	280A3143-11001	1	
6	ASSY -110 I.D. SLEEVE "SP797"	280A3143-11003	1	
7	SPLICE	D-436-37	1	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	1	(d)
9	CONTACT, PIN	BACC47CN1S	1	(e)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-12 as an accepted procedure.				
(c) Refer to SWPM 20-74-11 as an accepted procedure.				
(d) Refer to SWPM 20-90-15 as an accepted procedure.				
(e) Refer to SWPM 20-61-11 as an accepted procedure.				

FIGURE 39: CHANGES TO THE W5156 WIRE BUNDLE (SHEET 3 OF 4)

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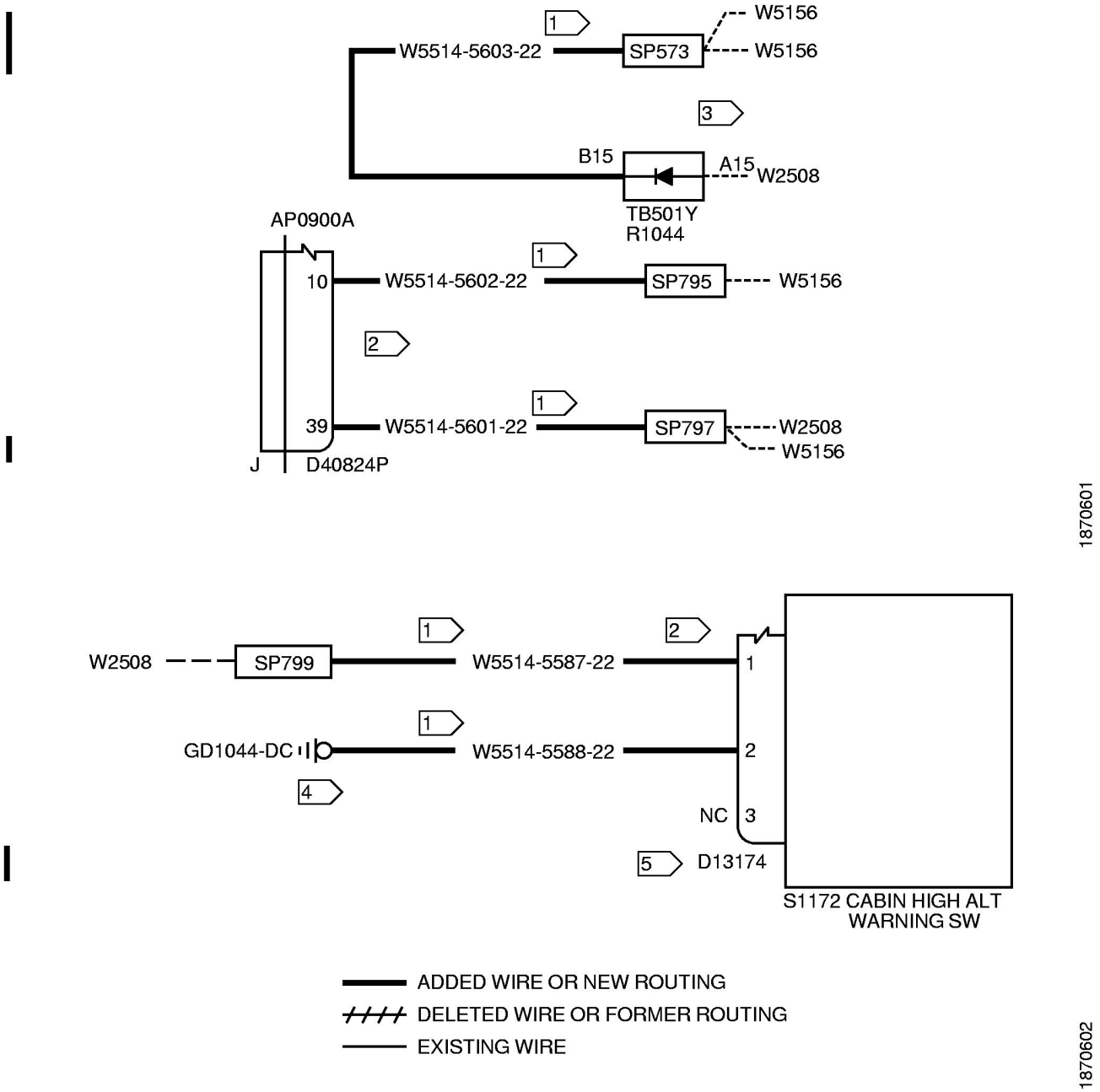
FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -110W, -116W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0695	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0696	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0699	22	CQ	337	BMS 13-58, TYPE 1, CLASS 1

FIGURE 39: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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This Figure applies only to: Group 8-11, 16.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-105, 280A3143-111 and 280A3161-103.

FIGURE 40: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 1 OF 2)

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ALERT **ALERT**

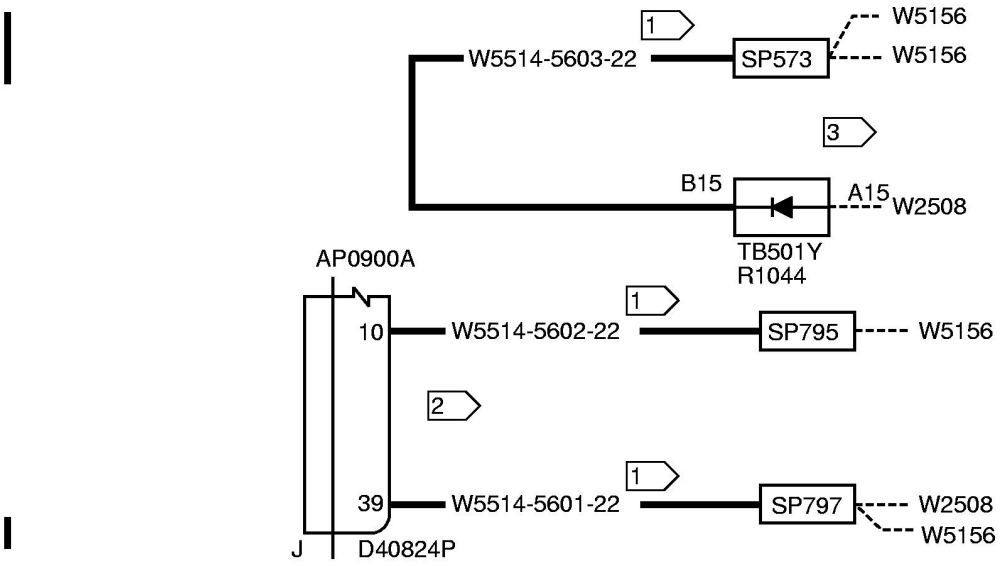
FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-105W	1	(a)
	Wire List for W5514.	280A3143-111W	1	(a)
	LACING TAPE	280A2001-1	1	(e)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
3	CONTACT, PIN, SIZE 20	S280W555-920	4	(c)
4	TERMINAL, LUG	BACT12AC3	2	(d)
5	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, THREADED COUPLING, SELF-LOCKING	BACC63BP10C5S6	1	
	SLEEVE CONNECTOR I.D. (D13174)	280A3161-10301	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Refer to SWPM 20-30-11 as an accepted procedure.				
(e) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -105W, -111W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5601	22	CQ	300	BMS 13-58, TYPE 1, CLASS 1
W5514	5602	22	PA	450	BMS 13-48, TYPE 10, CLASS 1
W5514	5603	22	PA	300	BMS 13-48, TYPE 10, CLASS 1
W5514	5587	22	CQ	143	BMS 13-58, TYPE 1, CLASS 1
W5514	5588	22	CQ	28	BMS 13-58, TYPE 1, CLASS 1

FIGURE 40: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 2 OF 2)

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This Figure applies only to: Group 12.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kit 280A3143-105.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-105W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
3	CONTACT, PIN, SIZE 20	S280W555-920	4	(c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 41: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 1 OF 2)

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ALERT ALERT

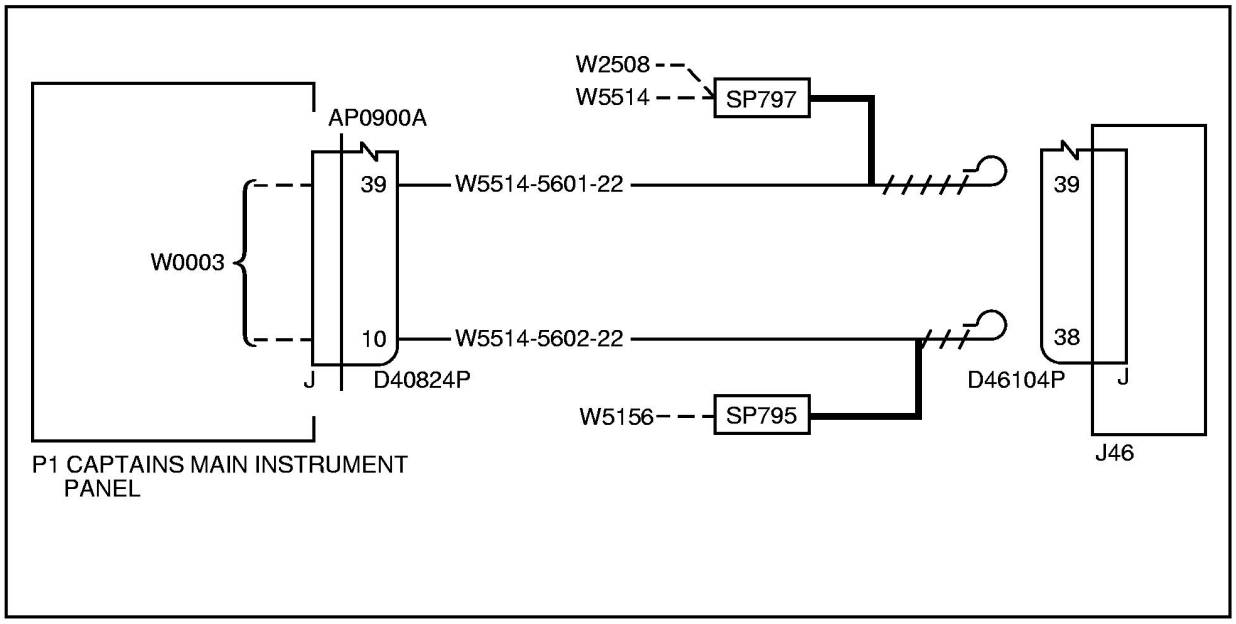
WIRE LIST - CUT AND CODE AS REQUIRED -105W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5601	22	CQ	300	BMS 13-58, TYPE 1, CLASS 1
W5514	5602	22	PA	450	BMS 13-48, TYPE 10, CLASS 1
W5514	5603	22	PA	300	BMS 13-48, TYPE 10, CLASS 1

FIGURE 41: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 2 OF 2)

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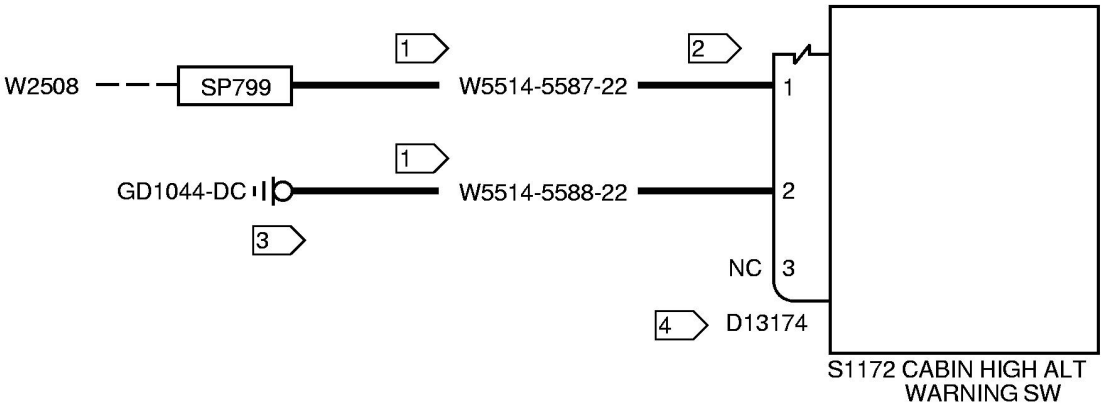
ALERT **ALERT**

This Figure applies only to: Group 13-14.



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

1870604



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

1870605

FIGURE 42: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 1 OF 2)

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ALERT **ALERT**

REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-111 and 280A3161-103.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	Wire List for W5514.	280A3143-111W	1	(a)
	LACING TAPE	280A2001-1	1	(d)
2	CONTACT, SOCKET	BACC47CP1S	2	(b)
3	TERMINAL, LUG	BACT12AC3	1	(c)
4	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, THREADED COUPLING, SELF-LOCKING	BACC63BP10C5S6	1	
	SLEEVE CONNECTOR I.D. (D13174)	280A3161-10301	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Refer to SWPM 20-10-19 as an accepted procedure.				

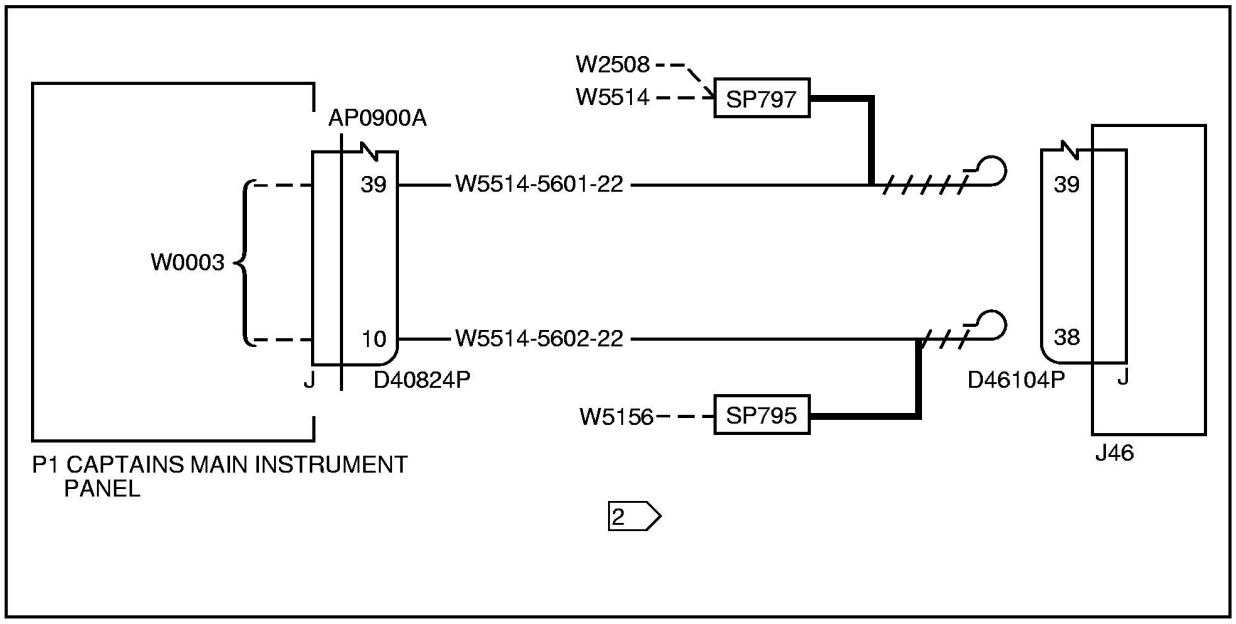
WIRE LIST - CUT AND CODE AS REQUIRED -111W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5587	22	CQ	143	BMS 13-58, TYPE 1, CLASS 1
W5514	5588	22	CQ	28	BMS 13-58, TYPE 1, CLASS 1

FIGURE 42: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 15, 21.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 43: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 1 OF 1)

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ALERT **ALERT**

This Figure applies only to: Group 17-18, 20.

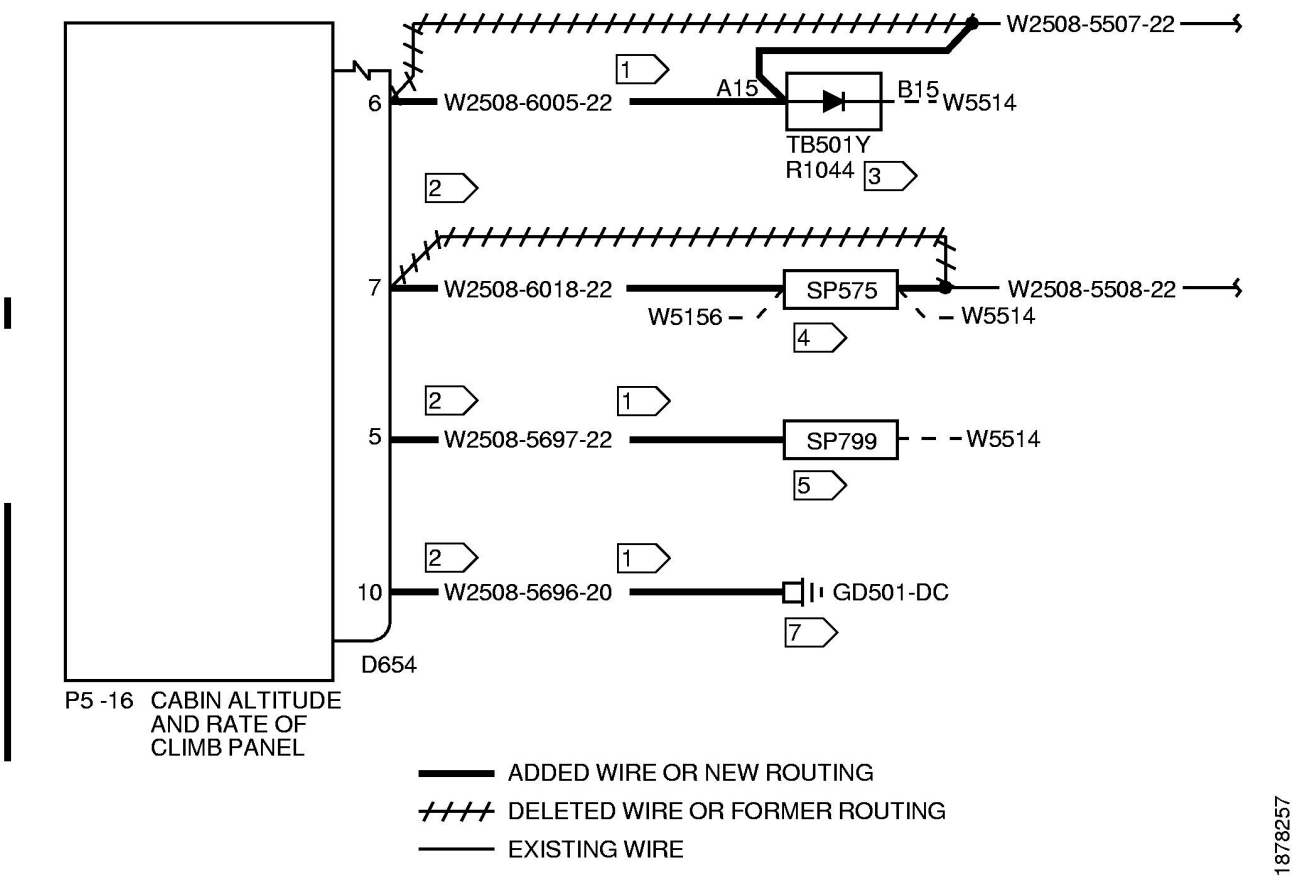
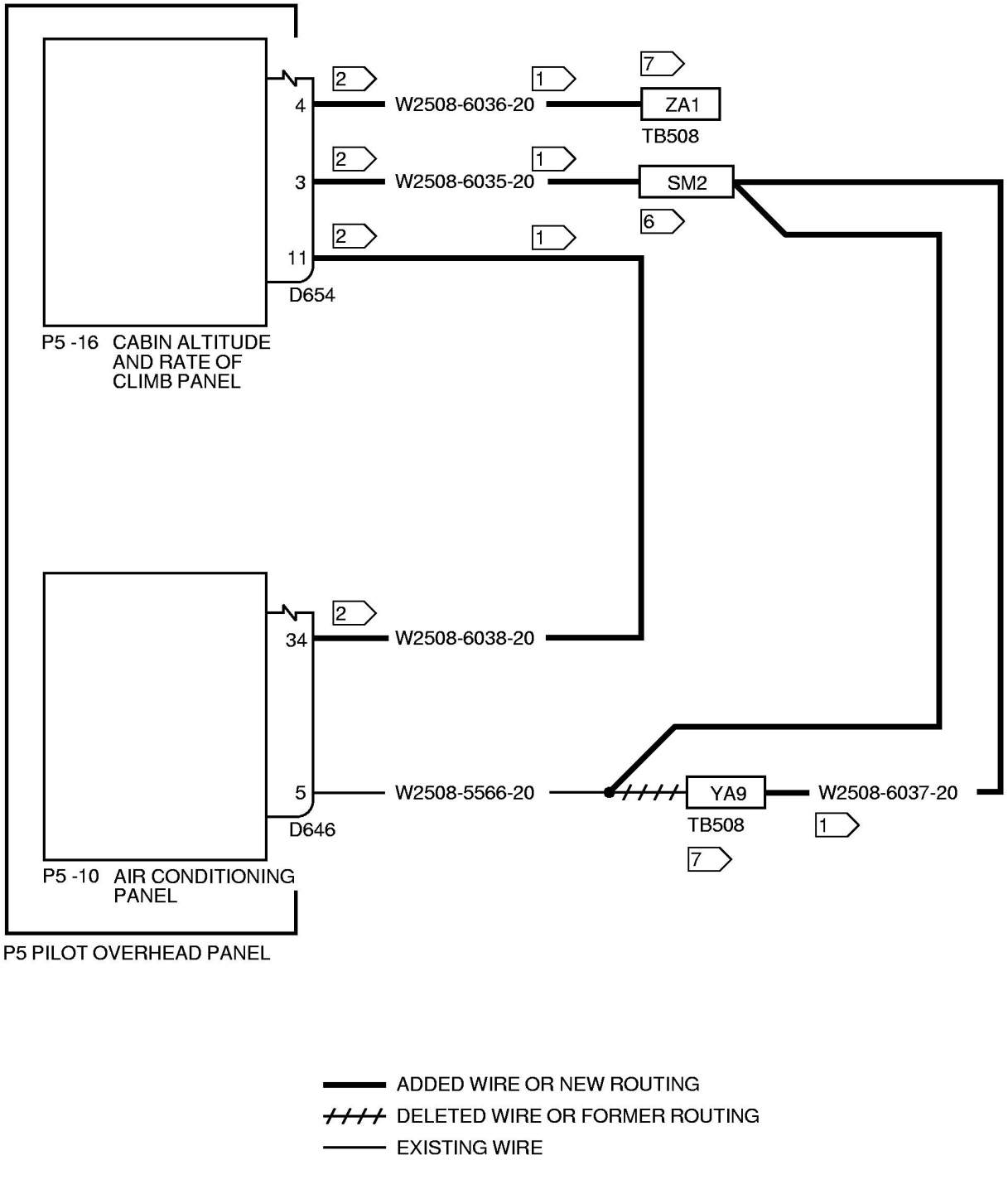


FIGURE 44: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 1 OF 4)

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REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 44: CHANGES TO THE W2508 WIRE BUNDLE (SHEET 2 OF 4)

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ALERT **ALERT**

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

NOTE: Get the parts from Wire Kits 280A3143-103, 280A3143-112, 280A3143-113 and 280A3161-101.

NOTE: If an operator is accomplishing service bulletins 737-21-1165 and 737-31A1332 concurrently, wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22 do not need to be installed as shown in this Figure. This is because Figure 20 of service bulletin 737-21-1165 provides new wires W2508-5507-22, W2508-5508-22, W2508-6005-22 and W2508-6018-22.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-103W	1	(a)
	Wire List for W5514	280A3143-112W	1	(a)
	Wire List for W2508	280A3143-113W	1	(a)
	LACING TAPE	280A2001-1	1	(f)
	WIRE LIST	280A3161-101W	1	(a)
2	CONTACT, SOCKET	BACC47CP1S	9	(b)
3	TERMINAL MODULE	S280W555-104	1	(c)
	TERMINAL MODULE	S280W555-751	1	(c)
	CONTACT, PIN, SIZE 20	S280W555-920	8	(c)
	ID Tape - Terminal Block Module	280A3143-10301	1	(d)
4	SPLICE - SEALING SLEEVE	D-436-59	2	(e)
	splice id	280A3143-10302	1	
5	SPLICE	D-436-37	1	(e)
6	SPLICE	D-436-37	1	(e)
	Assy -113 I.D. SLEEVE "SM2"	280A3143-11301	1	
7	CONTACT, PIN, SIZE 20	S280W555-920	3	(c)
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Install ID tape within 6 inches of equipment.				
(e) Refer to SWPM 20-30-12 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 44: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 3 OF 4)

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ALERT ALERT

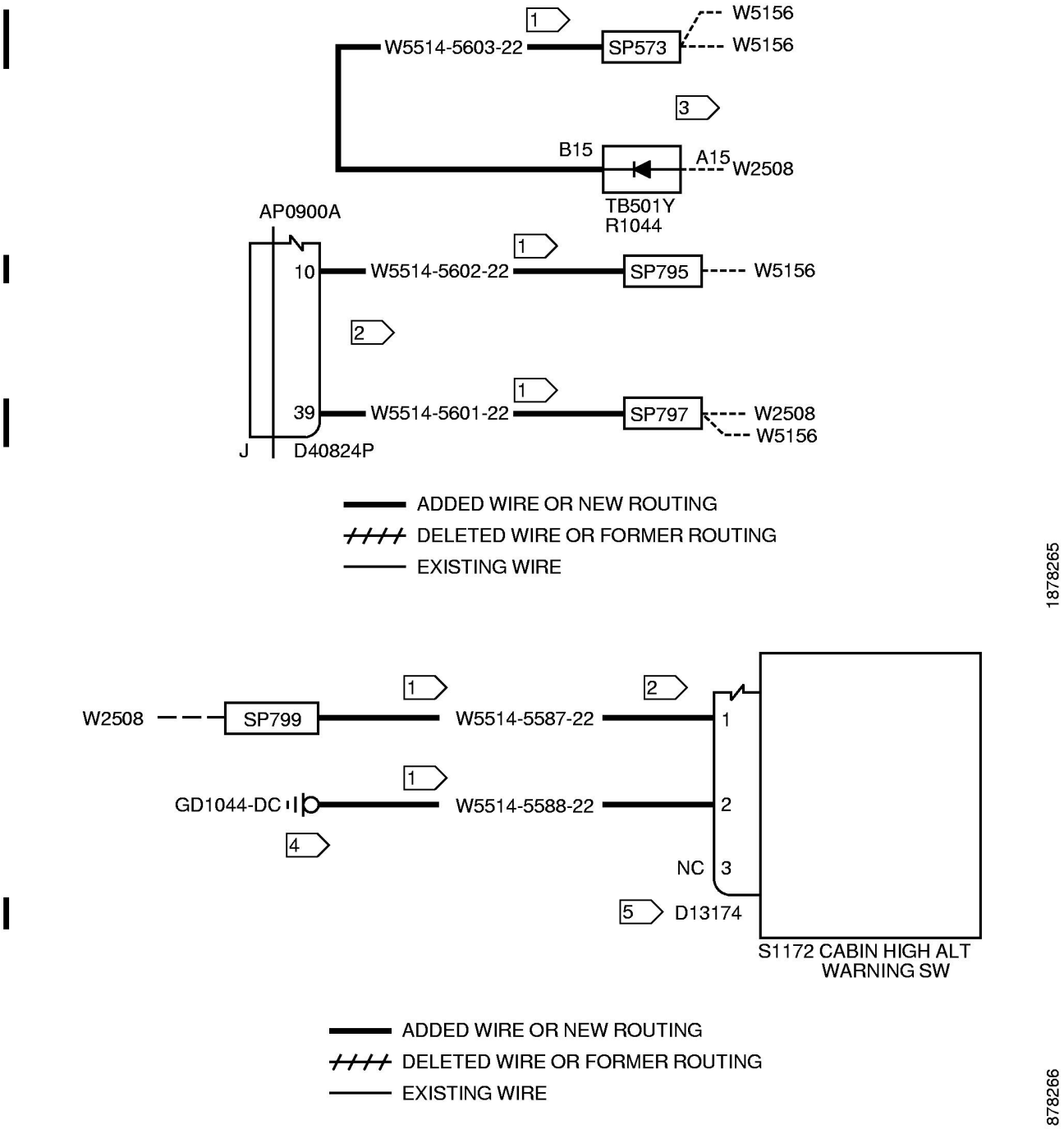
WIRE LIST - CUT AND CODE AS REQUIRED -101W, -103W, -112W, -113W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W2508	5696	20	PA	144	BMS 13-48, TYPE 10, CLASS 1
W2508	5697	22	CQ	298	BMS 13-58, TYPE 1, CLASS 1
W2508	6005	22	PA	200	BMS 13-48, TYPE 10, CLASS 1
W2508	6018	22	PA	500	BMS 13-48, TYPE 10, CLASS 1
W2508	6035	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6036	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6037	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1
W2508	6038	20	CQ	72	BMS 13-58, TYPE 1, CLASS 1

FIGURE 44: CHANGES TO THE W2508 WIRE BUNDLE
(SHEET 4 OF 4)

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ALERT **ALERT**

This Figure applies only to: Group 17-18, 20.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 45: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 1 OF 2)

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

NOTE: Get the parts from Wire Kits 280A3143-105, 280A3143-111 and 280A3161-103.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-105W	1	(a)
	Wire List for W5514.	280A3143-111W	1	(a)
	LACING TAPE	280A2001-1	1	(e)
2	CONTACT, SOCKET	BACC47CP1S	4	(b)
3	CONTACT, PIN, SIZE 20	S280W555-920	4	(c)
4	TERMINAL, LUG	BACT12AC3	2	(d)
5	CONNECTOR, ELECTRICAL, PLUG, STRAIGHT, THREADED COUPLING, SELF-LOCKING	BACC63BP10C5S6	1	
	SLEEVE CONNECTOR I.D. (D13174)	280A3161-10301	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-61-11 as an accepted procedure.				
(c) Refer to SWPM 20-90-15 as an accepted procedure.				
(d) Refer to SWPM 20-30-11 as an accepted procedure.				
(e) Refer to SWPM 20-10-19 as an accepted procedure.				

WIRE LIST - CUT AND CODE AS REQUIRED -105W, -111W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5601	22	CQ	300	BMS 13-58, TYPE 1, CLASS 1
W5514	5602	22	PA	450	BMS 13-48, TYPE 10, CLASS 1
W5514	5603	22	PA	300	BMS 13-48, TYPE 10, CLASS 1
W5514	5587	22	CQ	143	BMS 13-58, TYPE 1, CLASS 1
W5514	5588	22	CQ	28	BMS 13-58, TYPE 1, CLASS 1

FIGURE 45: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 19.

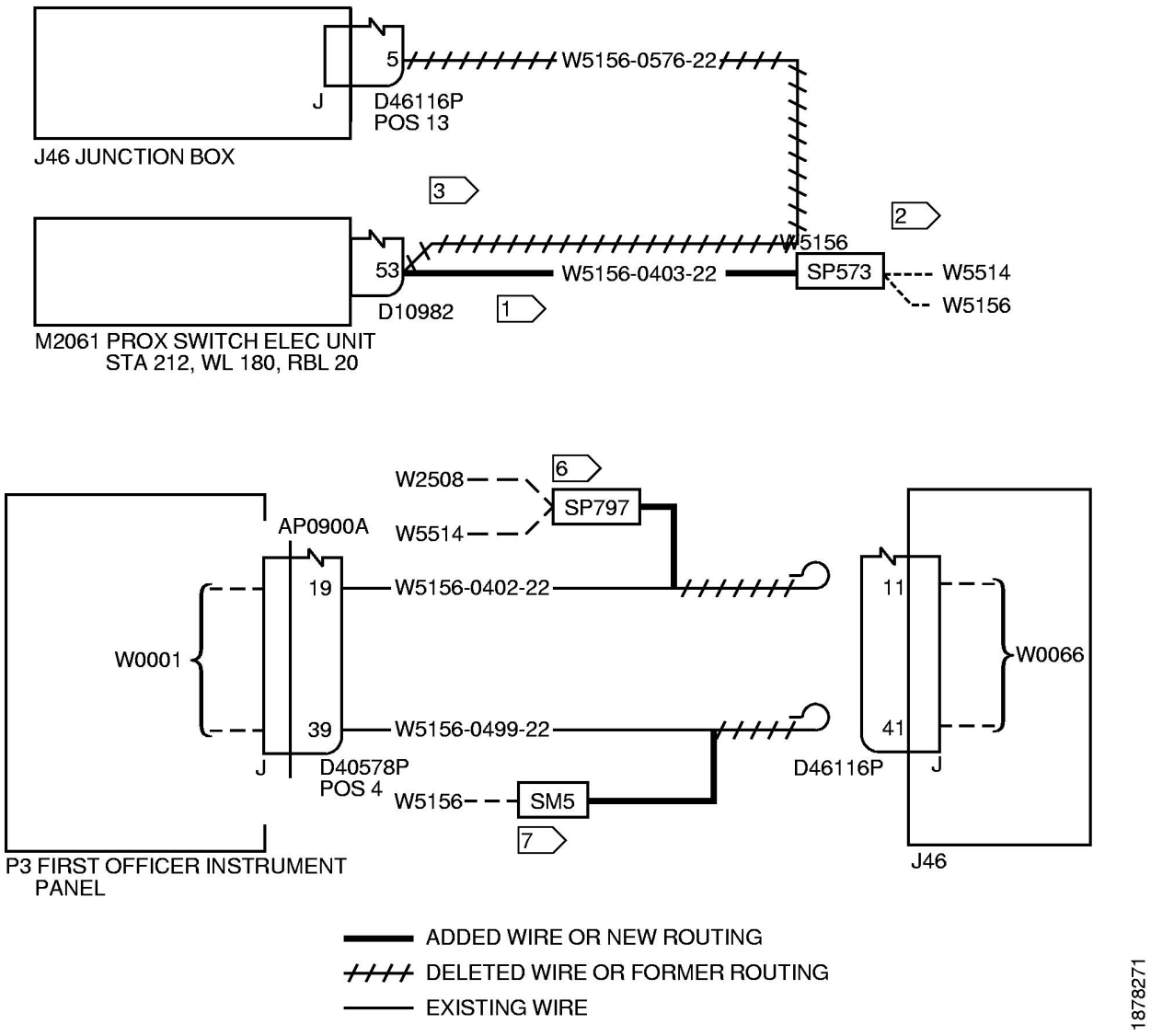
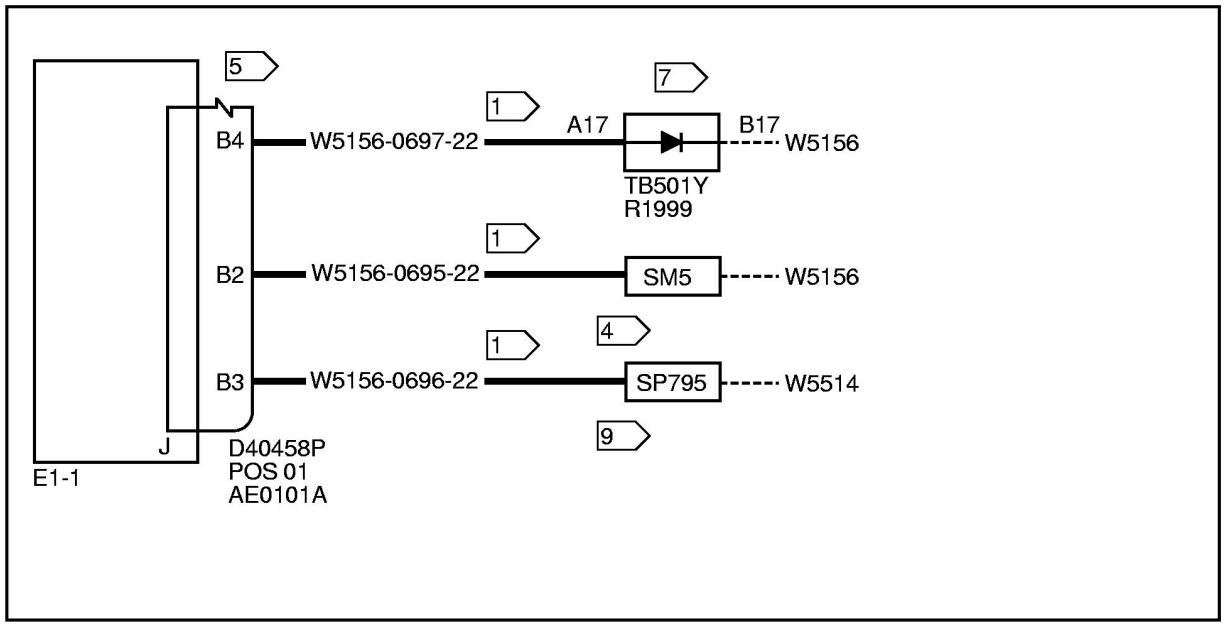
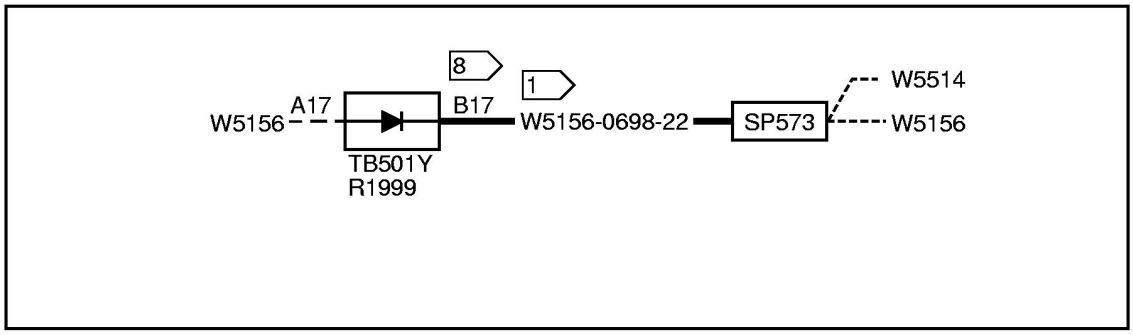


FIGURE 46: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 1 OF 4)

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

1878272

REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

FIGURE 46: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 2 OF 4)

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ALERT **ALERT**

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

NOTE: Get the parts from Wire Kits 280A3143-104, 280A3143-110 and 280A3143-115.

NOTE: Install the R1999 and terminate wires at either A17/B17, or any of the open positions at the TB501Y terminal block. If there is no open space in the TB501 terminal block, then the SP7001 and SP7002 splices should be used to create a space to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-104W	1	(a)
	Wire List for W5156.	280A3143-110W	1	(a)
	Wire List for W5156.	280A3143-115W	-	(a)
	LACING TAPE	280A2001-1	1	(f)
2	SPLICE - SEALING SLEEVE	D-436-59	2	(b)
	spice id	280A3143-10401	1	
3	CONTACT, SOCKET	BACC47CP1S	6	(c)
4	SPLICE	D-436-37	2	(b)
	ASSY -110 I.D. SLEEVE "SM5"	280A3143-11004	1	
5	CONTACT, PIN, SIZE 20	CTA-0166	4	(d)
6	SPLICE	D-436-37	1	(b)
	ASSY -110 I.D. SLEEVE "SP797"	280A3143-11003	1	
7	TERMINAL MODULE	S280W555-104	1	(e)
	TERMINAL MODULE	S280W555-751	1	(e)
	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
	ID Tape - Terminal Block Module	280A3143-11001	1	
8	CONTACT, PIN, SIZE 20	S280W555-920	2	(e)
9	SPLICE	D-436-37	1	
	ASSY -110 I.D. SLEEVE "SP795"	280A3143-11002	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-30-12 as an accepted procedure.				
(c) Refer to SWPM 20-61-11 as an accepted procedure.				

FIGURE 46: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 3 OF 4)

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FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
(d) Refer to SWPM 20-74-11 as an accepted procedure.				
(e) Refer to SWPM 20-90-15 as an accepted procedure.				
(f) Refer to SWPM 20-10-19 as an accepted procedure.				

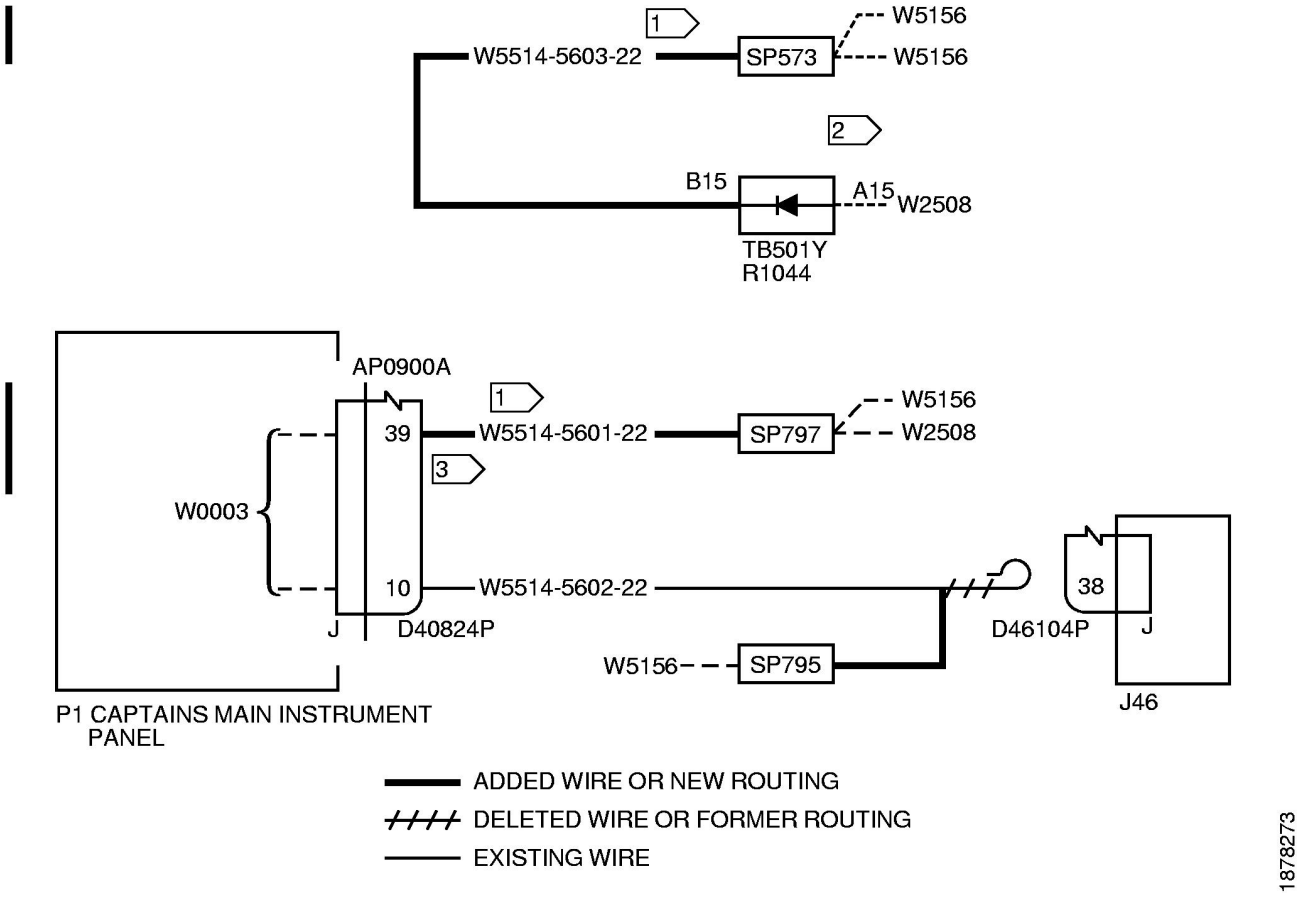
WIRE LIST - CUT AND CODE AS REQUIRED -104W, -110W, -115W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5156	0403	22	CQ	140	BMS 13-58, TYPE 1, CLASS 1
W5156	0695	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0696	22	CQ	139	BMS 13-58, TYPE 1, CLASS 1
W5156	0697	22	CQ	321	BMS 13-58, TYPE 1, CLASS 1
W5156	0698	22	CQ	200	BMS 13-58, TYPE 1, CLASS 1

FIGURE 46: CHANGES TO THE W5156 WIRE BUNDLE
(SHEET 4 OF 4)

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ALERT **ALERT**

This Figure applies only to: Group 19.



REFERENCE: 737-600/700/800/900 WDM 21-33-11, 737-600/700/800/900 WDM 31-53-11

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

NOTE: Get the parts from Wire Kits 280A3143-105 and 280A3143-111.

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	wire list	280A3143-105W	1	(a)
	LACING TAPE	280A2001-1	1	(c)
2	CONTACT, PIN, SIZE 20	S280W555-920	4	(b)
3	CONTACT, SOCKET	BACC47CP1S	1	
(a) Identify as shown. Cut to the necessary length.				
(b) Refer to SWPM 20-90-15 as an accepted procedure.				
(c) Refer to SWPM 20-10-19 as an accepted procedure.				

FIGURE 47: CHANGES TO THE W5514 WIRE BUNDLE
(SHEET 1 OF 2)

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WIRE LIST - CUT AND CODE AS REQUIRED -105W					
WBA#	WIRE#	GAGE COLOR	TYPE CODE	LENGTH (INCHES)	MATERIAL SPECIFICATION
W5514	5601	22	CQ	300	BMS 13-58, TYPE 1, CLASS 1
W5514	5603	22	PA	300	BMS 13-48, TYPE 10, CLASS 1

FIGURE 47: CHANGES TO THE W5514 WIRE BUNDLE (SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 1-10, 12-21.

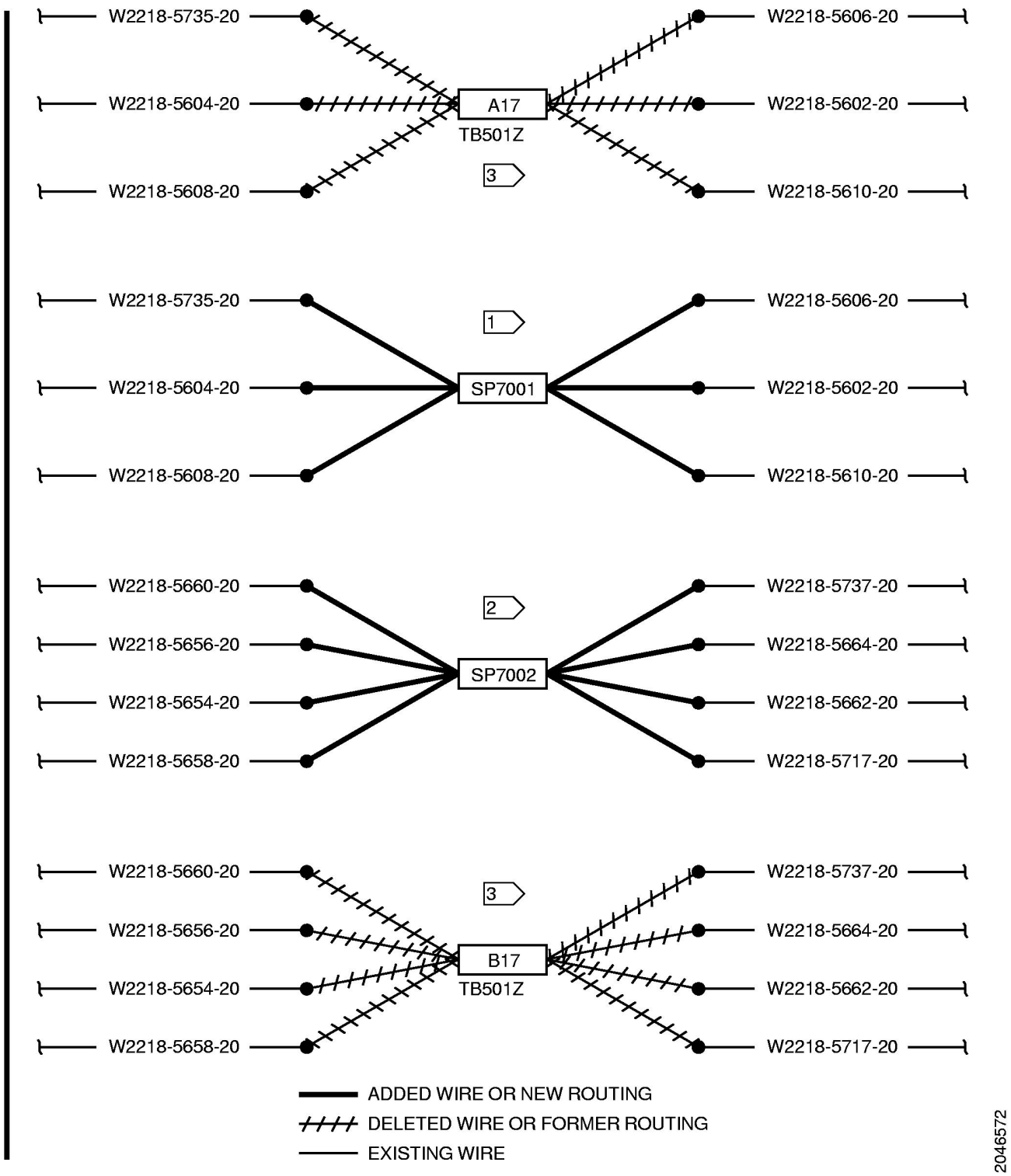


FIGURE 48: CHANGES TO THE W2218 WIRE BUNDLE (SHEET 1 OF 2)

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REFERENCE: 737-600/700/800/900 WDM 33-12-12

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

NOTE: Get the parts from Wire Kit 280A3161-102.

NOTE: The SP7001 and SP7002 splices are used to create a space in the TB501 terminal block to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7001)	280A3161-10201	1	
2	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7002)	280A3161-10202	1	
3	TERMINAL BLOCK	TB501Z	1	(b)
(a) Refer to SWPM 20-30-12 as an accepted procedure.				
(b) Remove the TB501Z terminal block.				

FIGURE 48: CHANGES TO THE W2218 WIRE BUNDLE (SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 22.

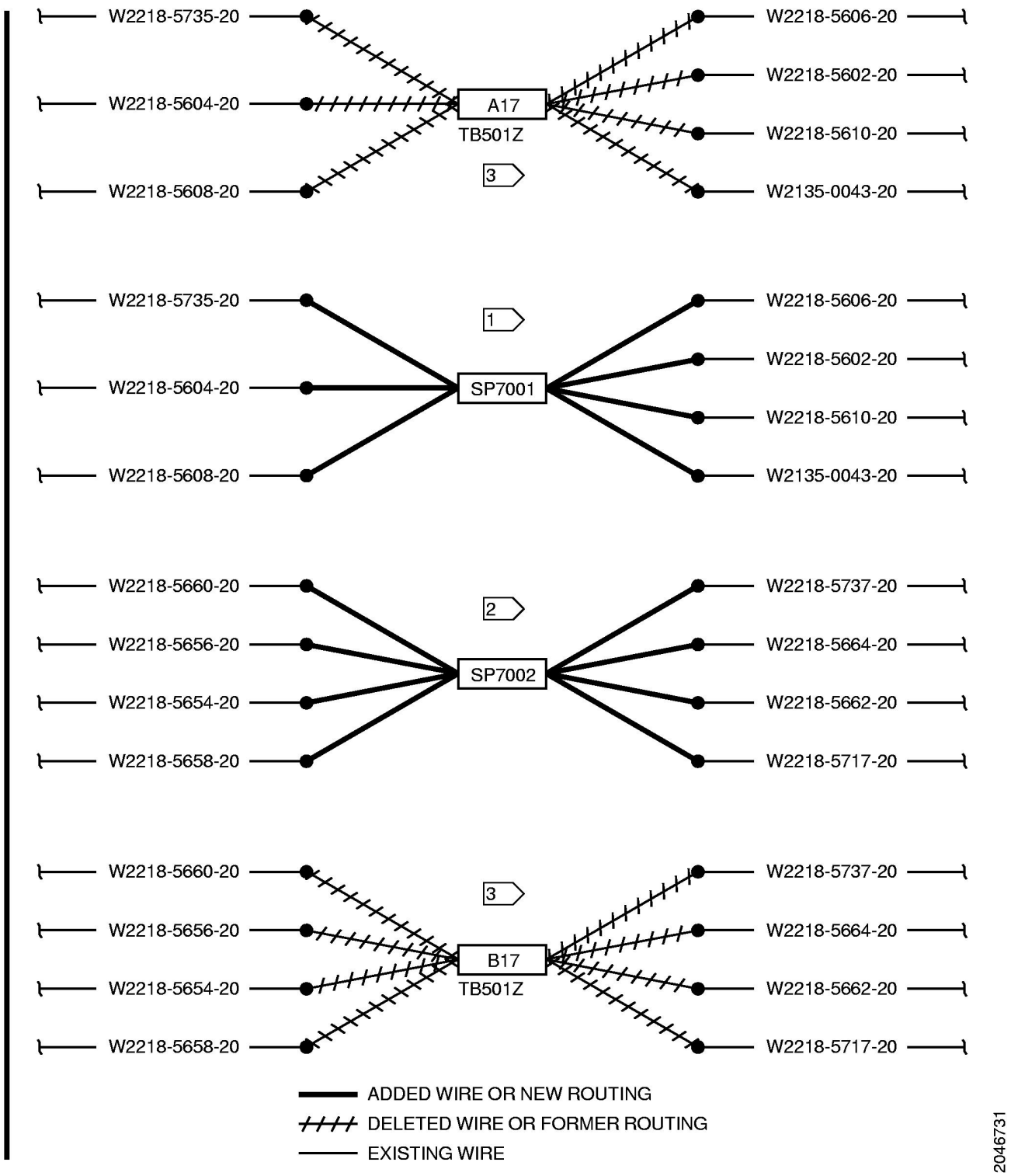


FIGURE 49: CHANGES TO THE W2218 AND W2135 WIRE BUNDLES (SHEET 1 OF 2)

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REFERENCE: 737-600/700/800/900 WDM 33-12-12

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

NOTE: Get the parts from Wire Kit 280A3161-102.

NOTE: The SP7001 and SP7002 splices are used to create a space in the TB501 terminal block to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7001)	280A3161-10201	1	
2	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7002)	280A3161-10202	1	
3	TERMINAL BLOCK	TB501Z	1	(b)
(a) Refer to SWPM 20-30-12 as an accepted procedure.				
(b) Remove the TB501Z terminal block.				

FIGURE 49: CHANGES TO THE W2218 AND W2135 WIRE BUNDLES (SHEET 2 OF 2)

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ALERT **ALERT**

This Figure applies only to: Group 23.

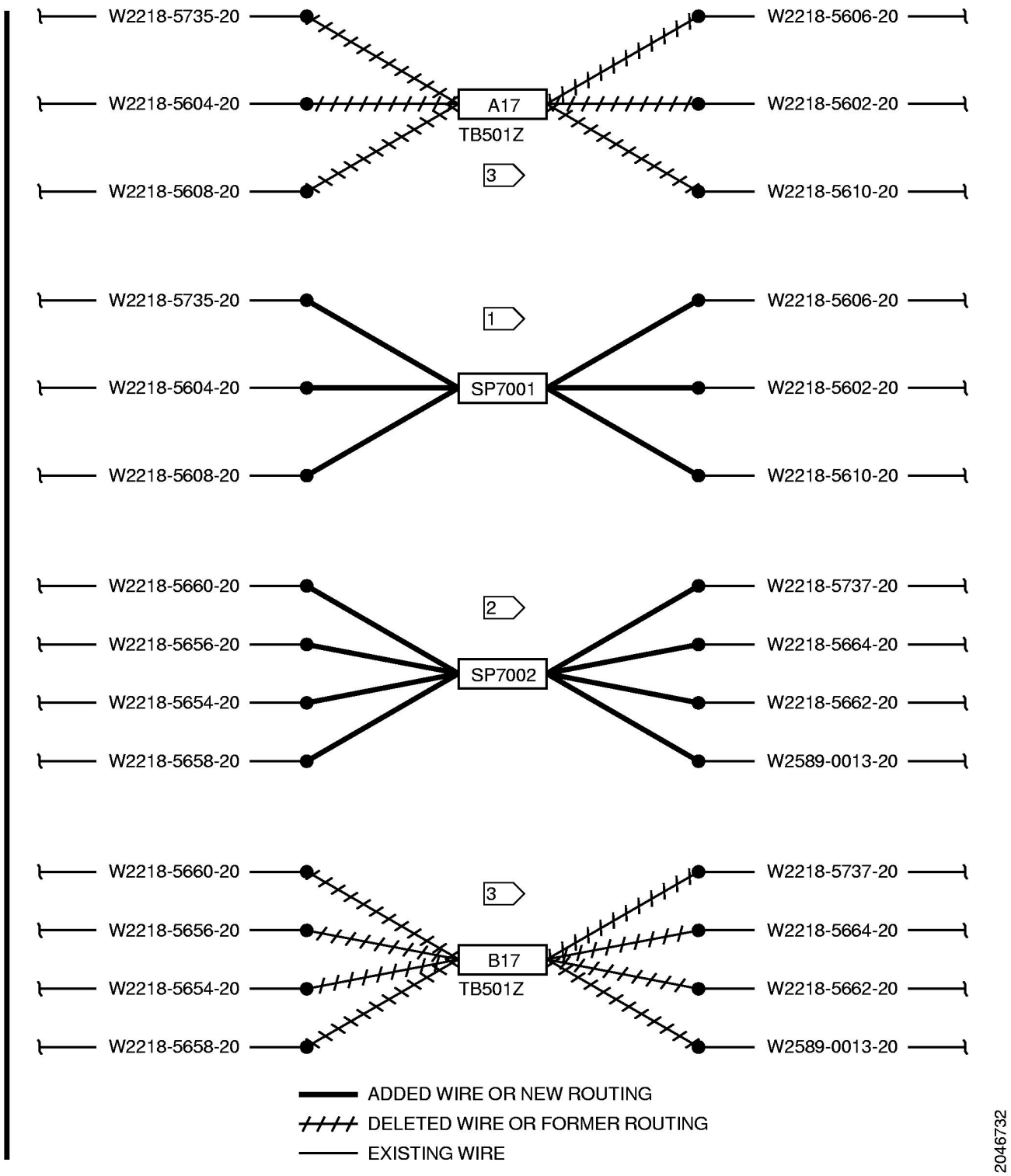


FIGURE 50: CHANGES TO THE W2218 AND W2589 WIRE BUNDLES (SHEET 1 OF 2)

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REFERENCE: 737-600/700/800/900 WDM 33-12-12

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

NOTE: Get the parts from Wire Kit 280A3161-102.

NOTE: The SP7001 and SP7002 splices are used to create a space in the TB501 terminal block to allow the installation of the R1999 (W5156).

FLAG NOTE	NAME	IDENTIFICATION	QTY	MORE DATA
1	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7001)	280A3161-10201	1	
2	SPLICE	NAS1387-6	1	(a)
	SLEEVE SPLICE I.D. (SP7002)	280A3161-10202	1	
3	TERMINAL BLOCK	TB501Z	1	(b)
(a) Refer to SWPM 20-30-12 as an accepted procedure.				
(b) Remove the TB501Z terminal block.				

FIGURE 50: CHANGES TO THE W2218 AND W2589 WIRE BUNDLES (SHEET 2 OF 2)

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P1-3 Captain Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2221-4		1	233A2221-24	(a)
233A2221-4		1	233A2221-8	(d) (e)
233A2221-5		1	233A2221-25	(a) (b)
233A2221-5		1	233A2221-9	(d) (e)
233A2221-6		1	233A2221-26	(a) (c)
233A2221-6		1	233A2221-10	(d) (e)
233A2221-7		1	233A2221-27	(a)
233A2221-7		1	233A2221-11	(d) (e)
233A2221-8	233A2221-16	1	233A2221-28	(a)
233A2221-9	233A2221-17	1	233A2221-29	(a)
233A2221-10		1	233A2221-18	(a)
233A2221-11		1	233A2221-19	(a)
233A2221-12		1	233A2221-20	(a)
233A2221-13		1	233A2221-21	(a)
233A2221-14	233A2221-22	1	233A2221-30	(a)
233A2221-15	233A2221-23	1	233A2221-31	(a)
(a) Make the change given in BAE Systems SB 233A2221-31-01, BAE Systems SB 233A2221-31-02 and BAE Systems SB 233A2221-31-03.				
(b) Part numbers 233A2221-1M655949E, or 233A2221-2, or 233A2221-2M012370F are equivalent to 233A2221-5.				
(c) Part number 233A2221-3M012370F is equivalent to 233A2221-6.				
(d) Make the change given in BAE Systems SB 233A2221-31-05.				
(e) This is an interim part and the additional modification is needed to get to a final configuration.				

P3-1 First Officer Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2222-4		1	233A2222-42	(a)
233A2222-4		1	233A2222-13	(d) (e)

APPENDIX A: P1-3, P3-1, P5-10 AND P5-16 PANELS - PART NUMBERS (SHEET 1 OF 3)

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P3-1 First Officer Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
233A2222-5		1	233A2222-43	(a) (b)
233A2222-5		1	233A2222-14	(d) (e)
233A2222-6		1	233A2222-44	(a) (c)
233A2222-6		1	233A2222-15	(d) (e)
233A2222-7		1	233A2222-45	(a)
233A2222-7		1	233A2222-16	(d) (e)
233A2222-10		1	233A2222-46	(a)
233A2222-10		1	233A2222-17	(d) (e)
233A2222-11		1	233A2222-47	(a)
233A2222-11		1	233A2222-18	(d) (e)
233A2222-12		1	233A2222-48	(a)
233A2222-12		1	233A2222-19	(d) (e)
233A2222-13	233A2222-28	1	233A2222-50	(a)
233A2222-14	233A2222-29	1	233A2222-51	(a)
233A2222-15	233A2222-30	1	233A2222-52	(a)
233A2222-16		1	233A2222-31	(a)
233A2222-17	233A2222-32	1	233A2222-53	(a)
233A2222-18		1	233A2222-33	(a)
233A2222-19		1	233A2222-34	(a)
233A2222-20		1	233A2222-35	(a)
233A2222-21		1	233A2222-36	(a)
233A2222-22		1	233A2222-37	(a)
233A2222-23	233A2222-38	1	233A2222-54	(a)
233A2222-24		1	233A2222-39	(a)
233A2222-25	233A2222-40	1	233A2222-55	(a)
233A2222-26		1	233A2222-49	(a)
233A2222-27	233A2222-41	1	233A2222-56	(a)
(a) Make the change given in BAE Systems SB 233A2222-31-01, BAE Systems SB 233A2222-31-02 and BAE Systems SB 233A2222-31-03.				

APPENDIX A: P1-3, P3-1, P5-10 AND P5-16 PANELS - PART NUMBERS (SHEET 2 OF 3)

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P3-1 First Officer Instrument Panel				
Existing Part Number (Before Modification)				
Original Part Number	**Superseded by Part Number**	**QTY**	**New Part Number (After Modification)**	**Notes**
(b) Part numbers 233A2222-2M012370F or 233A2222-1 are equivalent to 233A2222-5.				
(c) Part number 233A2222-3M012370F is equivalent to 233A2222-6.				
(d) Make the change given in BAE Systems SB 233A2222-31-05.				
(e) This is an interim part and the additional modification is needed to get to a final configuration.				

P5-16 Cabin Altitude and Rate of Climb Panel			
Original Part Number	**QTY**	**New Part Number (After Modification)**	**Notes**
233A3213-1	1	233A3213-4	(a)
233A3213-2	1	233A3213-4	(a)
69-37334-12	1	233A3213-4	(b)
(a) Make the change given in BAE Systems SB 233A3213-21-01.			
(b) The panel part number 69-37334-12 cannot be modified and should be replaced.			

P5-10 Air Conditioning Panel			
Original Part Number	**QTY**	**New Part Number (After Modification)**	**Notes**
69-37319-308		69-37319-311	(a)
69-37319-312		69-37319-313	(a)
(a) Make the change given in BAE Systems SB 69-37319-31-05.			

APPENDIX A: P1-3, P3-1, P5-10 AND P5-16 PANELS - PART NUMBERS (SHEET 3 OF 3)

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