



Commercial
Airplanes

737

Service Bulletin

Number: 737-24-1214
Original Issue: May 12, 2015
ATA System: 2421

SUBJECT: ELECTRICAL POWER - AC Generation System - Power Feeder Wire Bundle Support Installation

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Summary

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CONCURRENT REQUIREMENTS

None.

BACKGROUND

This service bulletin provides instructions on installing two additional wire support stringer clip assemblies for wire bundle W4722 located in main deck cargo area between stations 500 and 500A. It will prevent for wire bundle from rubbing on the overhead stowage bin sidewall. If this service bulletin is not accomplished, it may lead to wire bundle damage resulting in potential loss of Auxiliary Power Unit (APU) power channel.

Boeing evaluated during production that wire bundle W4722 is not properly secured against the overhead stowage bin sidewall. Upon further investigation, Boeing has decided to install two additional wire support stringer clip assemblies.

Accomplishment of this service bulletin will make sure that wire bundle W4722 installation is secured properly against overhead stowage bin sidewall.

This table is provided to operators for planning purposes only. Refer to the applicable sections for more information.

Planning Data	Affected	Reference
Spares Affected	No	Paragraph 1.A.2., Spares Affected
AD Related	No	Paragraph 1.E., Compliance and Paragraph 1.F., Approval
Weight and Balance Change	Yes	Paragraph 1.H., Weight and Balance Changes
Electrical Load Changed	No	Paragraph 1.I., Electrical Load Data
Publications Affected	Yes	Paragraph 1.K., Publications Affected
Airplane Flight Operations Affected (Flight Crew Operations Manual and/or FAA Approved Airplane Flight Manual)	No	Paragraph 1.K., Publications Affected
Kits/Parts Required	No	Paragraph 2.C.1., Kits/Parts
Operator Supplied Parts/Material	Yes	Paragraph 2.C.2., Parts and Materials Supplied by the Operator

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Planning Data	Affected	Reference
Special Tooling Required	No	Paragraph 2.F., Special Tooling Necessary to do this Service Bulletin

ACTION

Get access to wire bundle W4722 located next to main deck cargo door between stations 500 and 500A. Install wire support stringer clip assemblies at locations S-6L and S-7L. Close access.

EFFECTIVITY

737-700C Airplane(s). Refer to Paragraph 1.A.1., Airplane(s), for the list of affected airplane(s).

COMPLIANCE

No compliance time is given.

Boeing recommends this service bulletin be done to introduce improvements.

INDUSTRY SUPPORT INFORMATION

Boeing warranty remedies are available for 737NG airplanes in warranty as of February 05, 2014. Please refer to Paragraph 2.B., Industry Support Information.

MANPOWER

Airplanes	Total Task Hours	Elapsed Hours
Group 1	1.75	1.75

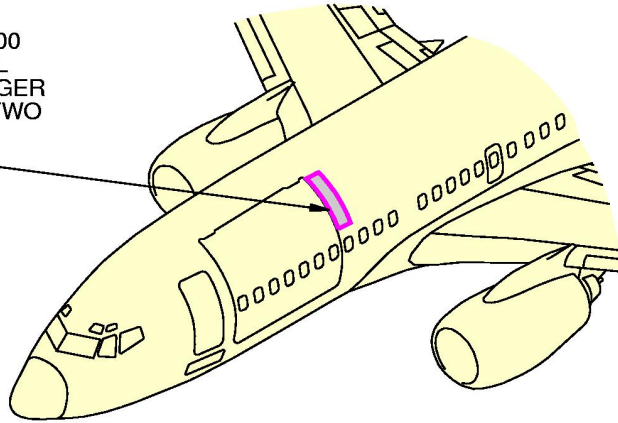
MATERIAL INFORMATION

Operator Supplied Parts/Materials.

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

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IN MAIN DECK CARGO
AREA BETWEEN STA 500
AND STA 500A, INSTALL
WIRE SUPPORT STRINGER
CLIP ASSEMBLIES AT TWO
LOCATIONS FOR WIRE
BUNDLE W4722



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1. PLANNING INFORMATION

A. Effectivity

1. Airplanes

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

This service bulletin is applicable to 737-700C airplanes, line numbers 496, 568, 651, 742, 1069, 1174, 1548, 1604, 1849, 3346, 3413, 3676 in 1 Group. The Variable Numbers and Group Information for the applicable airplanes is given below. An equivalent change is on subsequent production airplanes. Refer to MRR324014-020 for data about this change.

GROUP	CONFIGURATION	DESCRIPTION
1	-	737-700C Airplanes

Airplane Models:

737-700C

Variable Number	Group
YG501 - YG512	1

2. Spares Affected

None.

B. Concurrent Requirements

None.

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C. Reason

This service bulletin provides instructions on installing two additional wire support stringer clip assemblies for wire bundle W4722 located in main deck cargo area between stations 500 and 500A. It will prevent for wire bundle from rubbing on the overhead stowage bin sidewall. If this service bulletin is not accomplished, it may lead to wire bundle damage resulting in potential loss of Auxiliary Power Unit (APU) power channel.

Boeing evaluated during production that wire bundle W4722 is not properly secured against the overhead stowage bin sidewall. Upon further investigation, Boeing has decided to install two additional wire support stringer clip assemblies.

Accomplishment of this service bulletin will make sure that wire bundle W4722 installation is secured properly against overhead stowage bin sidewall.

D. Description

Get access to wire bundle W4722 located next to main deck cargo door between stations 500 and 500A. Install wire support stringer clip assemblies at locations S-6L and S-7L. Close access.

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

Affected Maintenance Zones	
Model	Zone
737-700C	231

E. Compliance

No compliance time is given.

Boeing recommends this service bulletin be done to introduce improvements.

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 for all 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.

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

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- 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

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	1	0.50	0.50
Figure 1	1	0.75	0.75
Close Access	1	0.50	0.50
TOTAL FOR EACH AIRPLANE		1.75	1.75

H. Weight and Balance Changes

Airplane	Change in Weight (Pounds)	Change in Moment (Pound-Inches)
Group 1	+0.3	+138.0

I. Electrical Load Data

Not changed.

J. References

- Existing Data:
 - Standard Overhaul Practices Manual (SOPM) 20-50-01
 - Standard Wiring Practices Manual (SWPM) 20-10-11, 20-10-12, 20-10-19, 20-10-20
 - 737-600/700/800/900 Aircraft Maintenance Manual (AMM) 20-50-11, 24-22-00, 25-21-46, 52-32-00
 - 737-700CONV Structural Repair Manual (SRM) 51-40-01
- Data Supplied with this Service Bulletin:

None.
- Installation Drawings Used in the Preparation of this Service Bulletin:

Drawing Number	Title
288A4081	STRINGER CLIP INSTL - WIRE BUNDLE SUPPORT, UPPER LOBE
288A4311	WIRE BUNDLE INSTL - LEFT PASSENGER SIDEWALL

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

K. Publications Affected

1. Publications:

Publication	Chapter-Section
737 Illustrated Parts Catalog	25-20

2. Damage Tolerance Based Structural Inspections:

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

Accomplishment of this service bulletin does not affect interchangeability or intermixability of parts.

M. Software Accomplishment Summary

Not affected.

2. MATERIAL INFORMATION

A. Material - Price and Availability

The operator can supply the parts and materials shown in Paragraph 2.C., Parts Necessary for Each Airplane. As an alternative, operators can purchase the parts from Boeing Spares. This service bulletin does not show the Boeing price and supply data.

B. Industry Support Information

Boeing warranty remedies are available for 737NG airplanes in warranty as of February 05, 2014. For labor task hour and material reimbursement for airplanes in warranty as of that date, send a warranty claim to Boeing Fleet Support Contracts - Warranty. The warranty remedies will expire eight years from the original issue date of this service bulletin.

C. Parts Necessary for Each Airplane

1. Kits/Parts

None.

2. Parts and Materials Supplied by the Operator

The following parts or materials are necessary to do the change in this service bulletin. Parts and materials in the manuals given in Paragraph 1.J., References, can also be necessary. Examine operator part and material supply to make sure all necessary parts and materials are available.

Part Number / Specification	QTY	Name	Notes
287A4011-47	2	METAL STRINGER CLIP - WIRING SUPPORT	
BACS12GU3K10	6	SCREW	(a)
69-37170-1	4	STRINGER CLIP ASSEMBLY	
NAS1149D0332J	6	WASHER	
TA027016-17	2	WIRE BUNDLE CLAMP	
287N1115-1	2	SPACER - WIRE SEPARATORS	
(a) Refer to 737-700CONV SRM 51-40-01 Structural Repair Manual Chapter 51 for alternate fasteners.			

3. Parts Modified and Reidentified

None.

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.

3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL INFORMATION

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

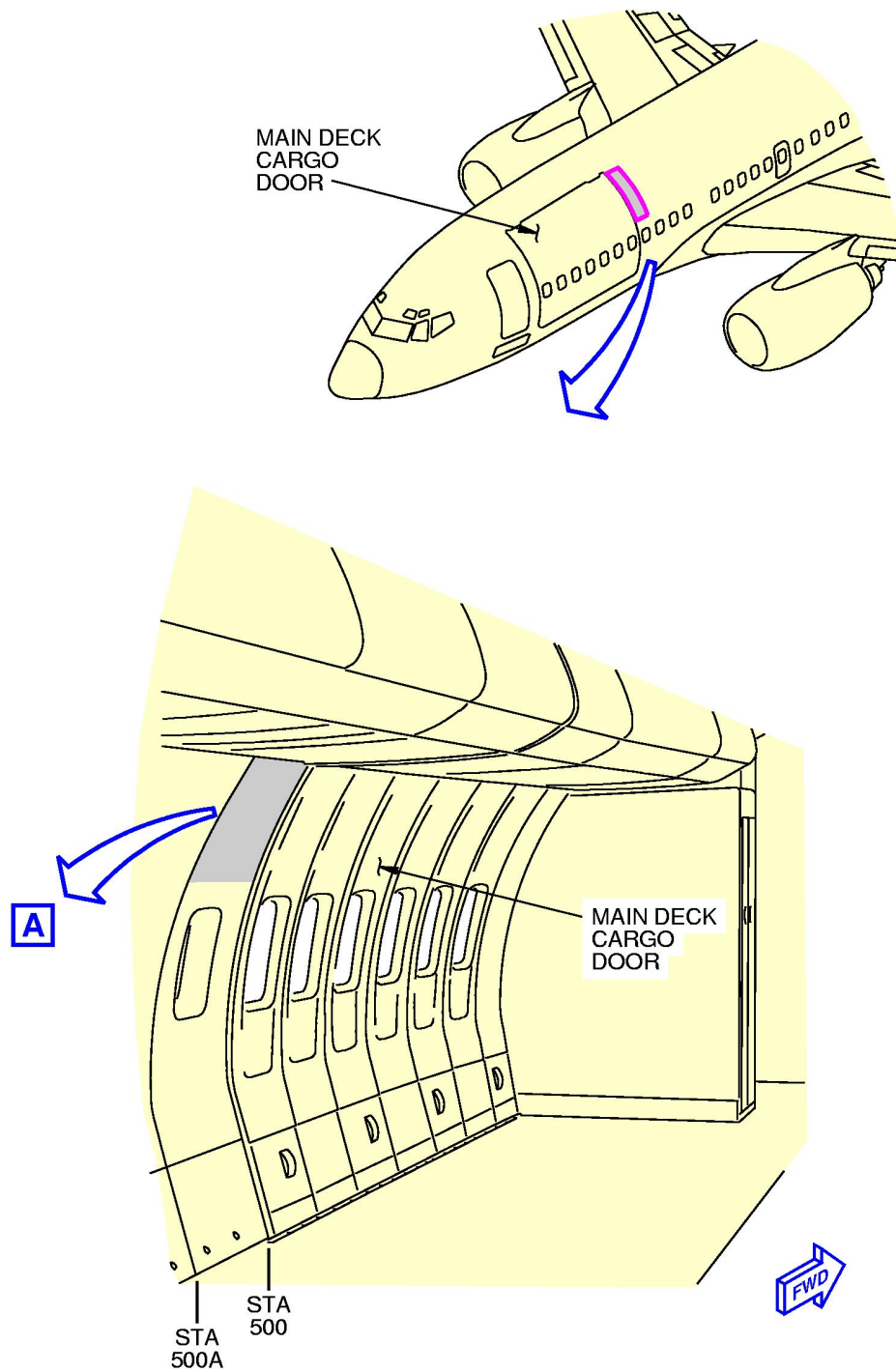
- NOTE:**
1. Manual titles are referred to by acronyms. Refer to Paragraph 1.J., References, for definition of the acronyms.
 2. Obey all of the warnings and cautions given in the specified manual sections.
 3. Unless shown differently, these dimensions and tolerances are used:
 - Linear dimensions are in inches
 - Tolerance on linear dimensions, other than rivet and bolt edge margins, is plus or minus 0.03 inch
 - Tolerance on rivet and bolt edge margin is plus or minus 0.05 inch
 - Angular tolerance is plus or minus 2 degrees
 - Hole dimensions for standard solid rivets and fasteners are in Structural Repair Manual (SRM) Chapter 51
 - Torque Values:
 - Values for structural fasteners are given in 737 Structural Repair Manual, Chapter 51.
 - Values for airframe maintenance tasks are included in Chapter 20 of 737 Aircraft Maintenance Manual (AMM).
 - Values for electrical maintenance tasks are included in Chapter 20 of Standard Wiring Practices Manual (SWPM).
 - Values for engine maintenance tasks are included in Chapter 70 of 737 Aircraft Maintenance Manual (AMM).
 - Non-standard torque values for maintenance tasks are included in the applicable installation step.
 4. Use the approved fastener, process and material substitutions in accordance with SRM Chapter 51.
 5. 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.
 6. The necessary conditions for selection of clamp type and size are included in SWPM 20-10-12. If any wire bundle support clamp specified in this service bulletin does not make a correct fit on the wire bundle, refer to SWPM 20-10-12 as an accepted procedure to select a clamp that fits correctly.

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7. If the length of any fastener specified in this service bulletin does not meet installation standards given in SRM Chapter 51, then a fastener of the same specification, or an approved substitute, with a length which meets the installation standards given in SRM Chapter 51 may be used. In addition, washers may be installed for fastener grip length in accordance with SRM Chapter 51. Refer to SOPM 20-50-01 for alternate full threaded fasteners (screws) needed for installation in this service bulletin.
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. If it is necessary to remove more parts for access, you can remove those parts. If you can get access without removing identified parts, it is not necessary to remove all of the identified parts. Jacking and shoring limitations must be observed.
10. Use of colors in Figures is based on guidance from the ATA e-Business Program (ATA) iSpec 2200.

B. WORK INSTRUCTIONS

1. Remove electrical power from the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.
2. Open the main deck cargo door. Refer to 737-600/700/800/900 AMM 52-32-00 as an accepted procedure.
3. Remove and keep the sidewall panel, 231YDW, between stations 500 and 500B on left side of the airplane next to main deck cargo door. Refer to 737-600/700/800/900 AMM 25-21-46 as an accepted procedure.
4. Install the wire support stringer clip assemblies in accordance with FIGURE 1.
5. Install the kept sidewall panel on left side of the airplane. Refer to 737-600/700/800/900 AMM 25-21-46 as an accepted procedure.
6. Close the main deck cargo door. Refer to 737-600/700/800/900 AMM 52-32-00 as an accepted procedure.
7. Restore the electrical power to the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.
8. Put the airplane back to serviceable condition.



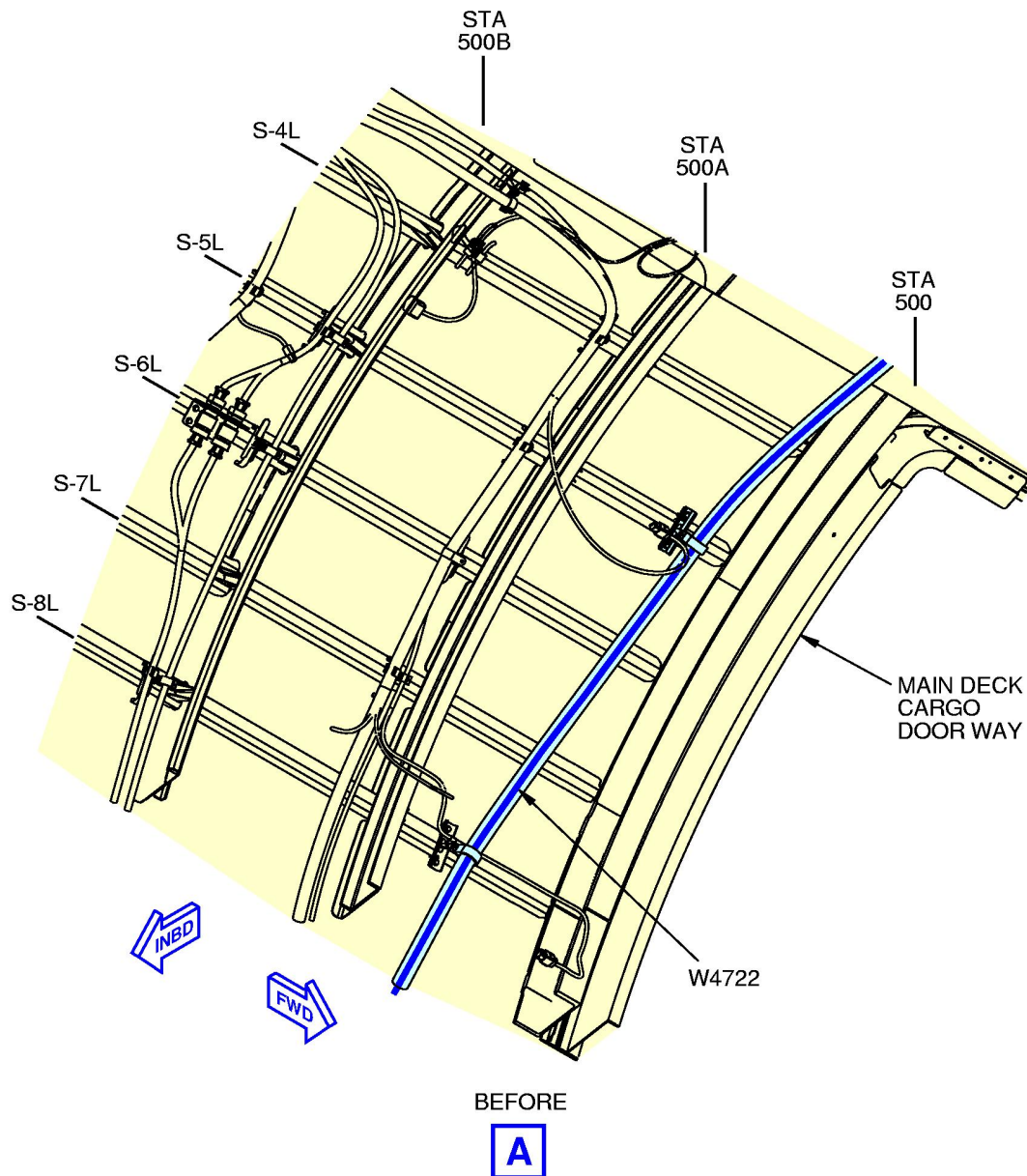
**FIGURE 1: WIRE BUNDLE W4722 WIRE SUPPORT STRINGER CLIP ASSEMBLIES INSTALLATION
(SHEET 1 OF 5)**

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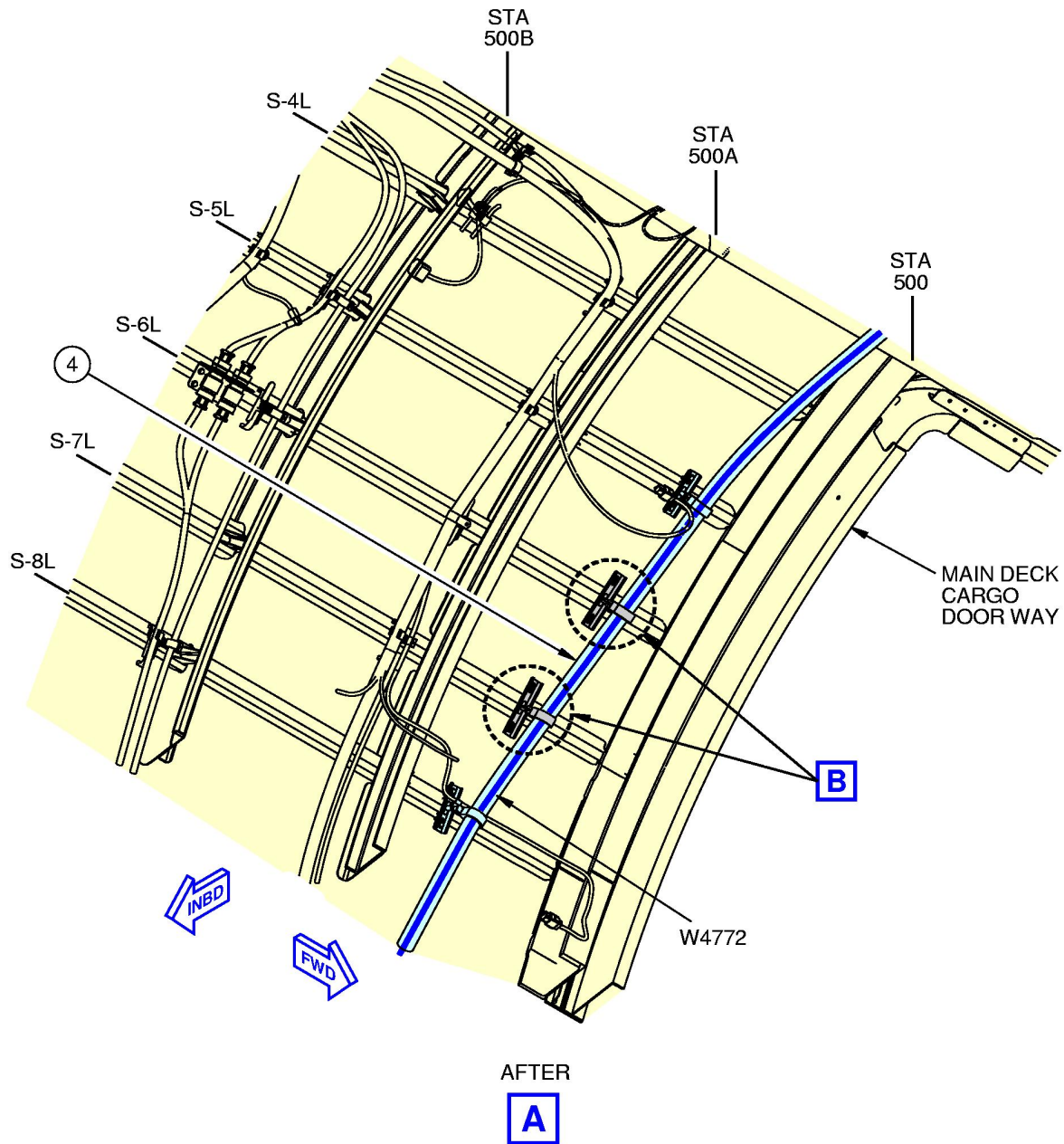
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**FIGURE 1: WIRE BUNDLE W4722 WIRE SUPPORT STRINGER CLIP ASSEMBLIES INSTALLATION
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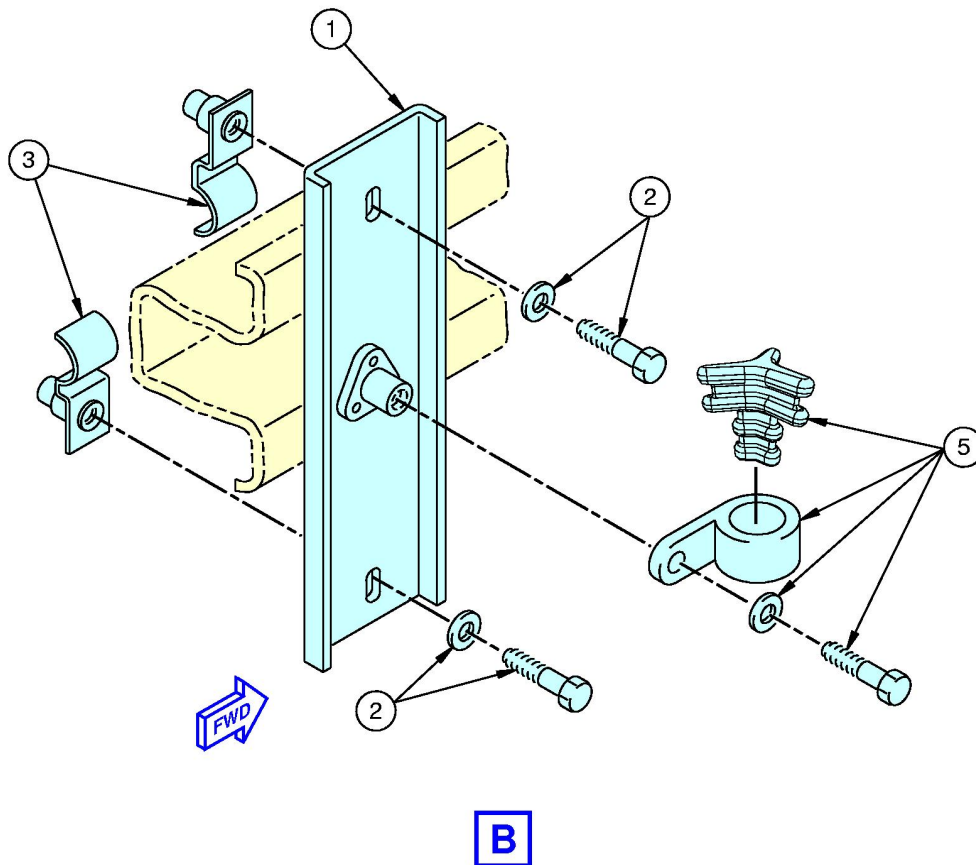
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**FIGURE 1: WIRE BUNDLE W4722 WIRE SUPPORT STRINGER CLIP ASSEMBLIES INSTALLATION
(SHEET 3 OF 5)**

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**FIGURE 1: WIRE BUNDLE W4722 WIRE SUPPORT STRINGER CLIP ASSEMBLIES INSTALLATION
(SHEET 4 OF 5)**

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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	Install (New)	METAL STRINGER CLIP, WIRING SUPPORT	287A4011-47	2	
2	Install (New)	SCREW	BACS12GU3K10	4	(a)
	Install (New)	WASHER	NAS1149D0332J	4	
3	Install (New)	STRINGER CLIP ASSEMBLY	69-37170-1	4	
4	Route	WIRE BUNDLE	W4722	1	
5	Install (New)	SPACER-WIRE SEPARATOR	287N1115-1	2	(b)
	Install (New)	WIRE BUNDLE CLAMP	TA027016-17	2	
	Install (New)	SCREW	BACS12GU3K10	2	(a)
	Install (New)	WASHER	NAS1149D0332J	2	
(a) Refer to 737-600/700/800/900 AMM 20-50-11 for Torque Values.					
(b) Refer to SWPM 20-10-20 as an accepted procedure for wire preparation and spacer installation.					

**FIGURE 1: WIRE BUNDLE W4722 WIRE SUPPORT STRINGER CLIP ASSEMBLIES INSTALLATION
(SHEET 5 OF 5)**

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