ALERT

Number: **747-25A3581**
Original Issue: September 23, 2010
Revision 1: June 30, 2011
ATA System: 2500

SUBJECT: EQUIPMENT/FURNISHINGS - Cargo and Accessory Compartments - M826 Cardfile Drip Shield Change

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Table of Contents

Revision Transmittal Sheet . . . 5
Summary . . . 7
1. PLANNING INFORMATION . . . 11
A. Effectivity . . . 11
1. Airplanes . . . 11
2. Spares Affected . . . 12
B. Concurrent Requirements . . . 12
C. Reason . . . 13
D. Description . . . 13
E. Compliance . . . 14
F. Approval . . . 14
G. Manpower . . . 14
H. Weight and Balance Changes . . . 15
I. Electrical Load Data . . . 15
J. References . . . 15
1. Existing Data . . . 15
2. Data supplied with this Service Bulletin . . . 16
3. Installation Drawings Used in the Preparation of this Service Bulletin . . . 16
K. Publications Affected . . . 16
L. Interchangeability and Intermixability of Parts . . . 16
2. MATERIAL INFORMATION . . . 17
A. Material - Price and Availability . . . 17
B. Industry Support Information . . . 17
C. Parts Necessary For Each Airplane . . . 17
1. Kits/Parts . . . 17
2. Parts and Materials Supplied by the Operator . . . 19
3. Parts Modified and Reidentified . . . 20
4. Parts Removed and Not Replaced . . . 20
D. Parts Necessary to Change Spares . . . 20
E. Special Tooling - Price and Availability . . . 20
F. Special Tooling Necessary to do this Service Bulletin . . . 20
3. ACCOMPLISHMENT INSTRUCTIONS . . . 21
A. GENERAL INFORMATION . . . 21
B. WORK INSTRUCTIONS . . . 22
FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD . . . 23
FIGURE 2: ELECTRONICS EQUIPMENT CENTER - LOOSEN AFFECTED WIRE BUNDLES . . . 28
FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION . . . 32
FIGURE 4: ELECTRONICS EQUIPMENT CENTER - RELOCATE WIRE BUNDLES ROUTING . . . 37
FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY . . . 41
FIGURE 6: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF DRIP SHIELD DEFLECTORS . . . 49
FIGURE 7: INSULATION BLANKET REPLACEMENT . . . 53

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Number: **747-25A3581**
Original Issue: September 23, 2010
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ATA System: 2500

Revision Transmittal Sheet

SUBJECT: EQUIPMENT/FURNISHINGS - Cargo and Accessory Compartments - M826 Cardfile Drip Shield Change

This revision includes all pages of the service bulletin.

COMPLIANCE INFORMATION RELATED TO THIS REVISION

More work is necessary on the airplane(s) changed in accordance with the original issue of this service bulletin. New deflector shield installation at STA 340 and insulation blanket replacement have been added. No airplane has incorporated the original issue of this service bulletin.

REASON FOR REVISION

This revision is sent to make changes to the service bulletin to correct an interference issue found during parts mock-up for the 747-8.

These sections were changed:

1. Paragraph 2.C.1., Parts Necessary For Each Airplane, 015U1884-1 Top Kit added Deflector Shield, fasteners and insulation blanket.

2. Figure 1 - Added instructions to plug the unused holes at STA 340 and STA 400.

3. Figure 5 - Sequence of steps changed to make installation of parts easier.

4. Figure 6 - Added instructions to install new deflector shield at STA 340.

5. Figure 7 - Added new Figure 7 instructions to replace insulation blanket.

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.

The data given in Information Notice 747-25A3581 R00 IN01 is included in this revision.

REVISION HISTORY

Original Issue:	September 23, 2010

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Number: **747-25A3581**
Original Issue: September 23, 2010
Revision 1: June 30, 2011
ATA System: 2500

Summary

SUBJECT: EQUIPMENT/FURNISHINGS - Cargo and Accessory Compartments - M826 Cardfile Drip Shield Change

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

CONCURRENT REQUIREMENTS

Refer to Paragraph 1.B., Concurrent Requirements.

BACKGROUND

This service bulletin will mitigate water from exiting over the edge of the existing drip shield and contaminating electrical components in the M826 cardfile below. If this service bulletin is not incorporated, electrical components in the M826 cardfile can malfunction due to water contamination which could result in an electrical short and potential loss of several functions essential for safe flight.

An Operator reported finding evidence of water damage to Diode Fire Card 285U0072-1 in the M826 Automatic Fire Overheat Logic Test System (AFOLTS) cardfile following a false FWD CARGO FIRE message which resulted in an Air Turn Back (ATB). Measurements showed the drip shield sloped away from the two drains added by SB 747-25A3370 (-400F) and SB 747-25A3526 (-400 Boeing Converted Freighter) and mandated by Airworthiness Directive (AD). Boeing's subsequent investigation found other reports of water damage to circuit cards in M826 affecting several operators.

This service bulletin replaces the existing drip shield with a new drip shield, installs two new drip shield deflectors between the new drip shield and the two adjacent bulkheads, and relocates wire bundles that interfere with these installations.

Boeing Service Related Problem (SRP) 747-SRP-25-0282 is related to this service bulletin.

ACTION (PRR 85901-100RS)

Do the following items:

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1. Remove existing drip shield
2. Relocate wire bundles
3. Install new drip shield's brackets
4. Install new drip shield
5. Install new drip shield deflectors
6. Install new blankets

EFFECTIVITY

747-400 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 24 months after the revision 1 issue date of this service bulletin.

INDUSTRY SUPPORT INFORMATION

Boeing warranty remedies may be available for airplanes in warranty as of October 8, 2008. Please refer to Paragraph 2.B., Industry Support Information.

MANPOWER

Airplanes	Total Task Hours	Elapsed Hours
GROUP 1	22.50	14.75
GROUP 2	22.50	14.75

MATERIAL INFORMATION

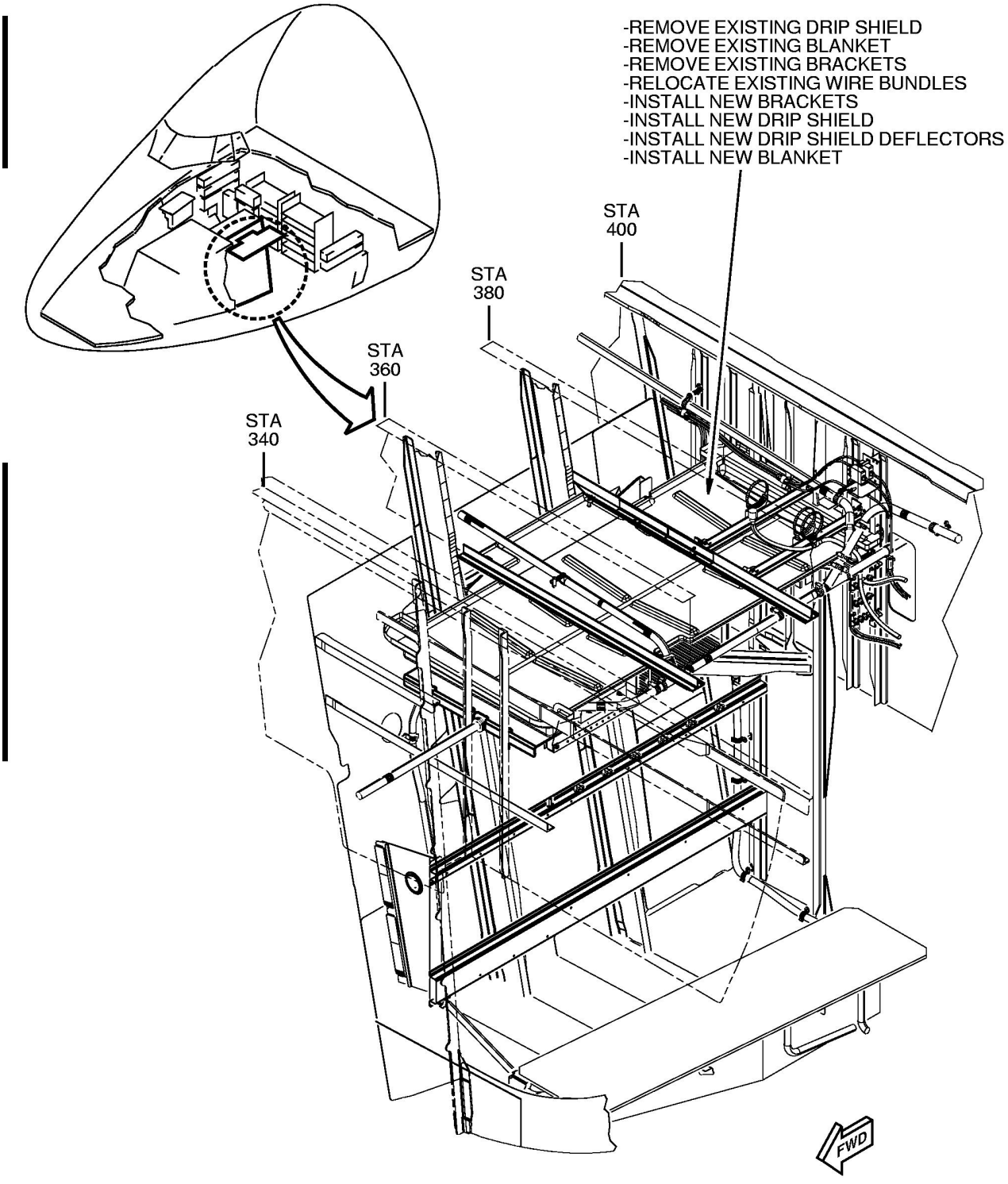
Boeing Supplied Kits/Parts.

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

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

1. PLANNING INFORMATION

A. Effectivity

1. Airplanes

Refer to Service Bulletin Index D6-30300 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 85901-100RS for data about this change.

GROUP	CONFIGURATION	DESCRIPTION
1	-	747-400 that did not get hardware equivelent to SB 747-25A3526 during conversion to BCF configuration.
2	-	747-400 that did get hardware equivelent to SB 747-25A3526 during conversion to BCF configuration.

Airplane Models:

747-400

Variable Number	Group
RM128	2
RT021 - RT022	2
RT031 - RT033	2

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Variable Number	Group
RT071 - RT072	1
RT075	1
RT161	2
RT164	2
RT456	1
RT461	2
RT501	1
RT506	2
RT507 - RT510	1
RT513	1
RT516	1
RT518	1
RT519	2
RT520	1
RT524	1
RT526	2
RT528	1
RT530	2
RT572 - RT574	1
RT575 - RT579	2
RT642	2
RT655 - RT657	1
RT751	1
RT752	2
RT781 - RT782	1
RT837	2
RT967	2

2. Spares Affected

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

B. Concurrent Requirements

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

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Group 1:

Company	Service Bulletin	Description
Boeing	747-25A3526, Revision 1	(a) (b) Drip shield Modification
(a) Steps 1-5 of Figure 2 in service bulletin 747-25A3526 R1 are NOT required if work is being accomplished concurrent with this service bulletin.		
(b) The portion of "More Data" in step 8 of Figure 3 in service bulletin 747-25A3526 R1 which says "Attach drain tube and strap above bead on the spud" is also NOT required.		

Group 2:
None

C. Reason

This service bulletin will mitigate water from exiting over the edge of the existing drip shield and contaminating electrical components in the M826 cardfile below. If this service bulletin is not incorporated, electrical components in the M826 cardfile can malfunction due to water contamination which could result in an electrical short and potential loss of several functions essential for safe flight.

An Operator reported finding evidence of water damage to Diode Fire Card 285U0072-1 in the M826 Automatic Fire Overheat Logic Test System (AFOLTS) cardfile following a false FWD CARGO FIRE message which resulted in an Air Turn Back (ATB). Measurements showed the drip shield sloped away from the two drains added by SB 747-25A3370 (-400F) and SB 747-25A3526 (-400 Boeing Converted Freighter) and mandated by Airworthiness Directive (AD). Boeing's subsequent investigation found other reports of water damage to circuit cards in M826 affecting several operators.

This service bulletin replaces the existing drip shield with a new drip shield, installs two new drip shield deflectors between the new drip shield and the two adjacent bulkheads, and relocates wire bundles that interfere with these installations.

Boeing Service Related Problem (SRP) 747-SRP-25-0282 is related to this service bulletin.

Revision 01 is sent to make changes to the service bulletin to correct an interference issue found during parts mock-up for the 747-8.

D. Description

Do the following items:

1. Remove existing drip shield
2. Relocate wire bundles
3. Install new drip shield's brackets
4. Install new drip shield
5. Install new drip shield deflectors
6. Install new blankets

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Revision 1 - More work is necessary on the airplane(s) changed in accordance with the original issue of this service bulletin. New deflector shield installation at STA 340 and insulation blanket replacement have been added. No airplane has incorporated the original issue of this service bulletin.

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

Affected Maintenance Zones	
Model	**Zone**
747-400	115

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 24 months after the revision 1 issue date of 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.

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.

Task	Number of Persons	Task Hours	Elapsed Hours
Open Access	1	0.25	0.25

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Task	Number of Persons	Task Hours	Elapsed Hours
Figure 1	1	2.75	2.75
Figure 2	2	4.50	2.25
Figure 3	1	1.50	1.50
Figure 4	2	6.50	3.25
Figure 5	2	4.50	2.25
Figure 6	1	1.25	1.25
Figure 7	1	1.00	1.00
Test	1	0.25	0.25
TOTAL FOR EACH AIRPLANE		22.50	14.75

H. Weight and Balance Changes

Airplane	Change in Weight (Pounds)	Change in Moment (Pound-Inches)
Group 1	+7.3	+2717.0
Group 2	+7.3	+2717.0

I. Electrical Load Data

Not changed.

J. References

1. Existing Data

    a. Engineering Change Memo PRR 85901-100RS

    b. Boeing Service Bulletin 747-25A3526

    c. Boeing Service Related Problem (SRP) 747-SRP-25-0282

    d. Standard Overhaul Practices Manual (SOPM) 20-15-19, 20-43-03, 20-50-12

    e. Standard Wiring Practices Manual (SWPM) 20-10-11, 20-10-12, 20-10-19

    f. 747-400 Aircraft Maintenance Manual (AMM) 53-21-02

    g. 747-400SF Structural Repair Manual (SRM) Chapter 51

    h. Service Bulletin Index D6-30300

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2. Data supplied with this Service Bulletin

None.

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

Drawing Number	Title
411U4403	BLANKET ASSEMBLY INSULATION
828B4240	DRIP SHIELD INSTL - CARD FILE - NOSE WHEEL WELL LH SIDE
828B8101	WIRE BUNDLE INSTALLATION - NOSE SECTION 41

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
747 Illustrated Parts Catalog	53-11

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 affects FCS but no new DTIs are 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 , as shown below. If there is a limit to the quantity of available , a supply sequence is given by Spares. More become available as shown in the Reorder Lead Time (ROLT). ROLT is calculated from the date Boeing gets the purchase order.

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	Date	QTY	ROLT (Calendar Days)	Unit Price thru 04/30/2012
015U1884-1	TOP KIT - AFOLTS DRIP SHIELD MODIFI-CATION	8/2/2011	1	500	$8,844.00

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

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

1. Order on-line via ATA Spec 2000 or Boeing Part Page
2. Fax to (206) 662-7145
3. Mail to:

   Spares Customer Support - MC 36-65

   Boeing Spares Department

   P.O. Box 3707

   Seattle, Washington 98124-2207 USA

B. Industry Support Information

Boeing warranty remedies may be available for service bulletin kits purchased for SB 747-25A3581. Send a warranty claim to Boeing Product Assurance Contracts.

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 015U1884			
New Part Number	**QTY**	**Name**	**Notes**
	-1		
287U0072-53	1	BRACKET ASSY	NUT SPACER ASSY
411U4403-1001	1	BLANKET ASSY - INSULATION	
672U7102-1	1	DRIP SHIELD - FWD BRACKET	
672U7102-10	1	DRIP SHIELD - STA 380 BRACKET ASSY	
672U7102-11	1	DRIP SHIELD - ASSY	
672U7102-12	4	DRIP SHIELD - DEFLECTOR PLATE	
672U7102-13	1	DRIP SHIELD - DEFLECTOR PLATE	
672U7102-14	1	DRIP SHIELD - DEFLECTOR	
672U7102-2	1	DRIP SHIELD - AFT BRACKET	
672U7102-6	1	DRIP SHIELD - DEFLECTOR	
672U7102-8	2	WIRE BRACKET ASSY	
672U7102-9	1	DRIP SHIELD - STA 360 BRACKET ASSY	
69B47961-5	1	GROMMET	
BACB30VN6K7	2	BOLT, PROTRUDING HD	
BACB30VN6K8	2	BOLT, PROTRUDING HD	
BACB30VT6K3	15	BOLT, PROTRUDING HEAD	(a)
BACB30VT6K4	8	BOLT, PROTRUDING HEAD	(a)
BACB30VT6K7	1	BOLT, PROTRUDING HEAD	
BACB30VT8K6	5	BOLT, PROTRUDING HEAD	
BACB30VT8K7	3	BOLT, PROTRUDING HEAD	
BACB30VT8K8	2	BOLT, PROTRUDING HEAD	
BACC10DK12	1	CLAMP, LOOP	
BACC30BK6	4	COLLAR	
BACC30BL6	24	COLLAR	(a)
BACC30BL8	10	COLLAR	
BACN10GH3A10	1	NUT, SPACER PLATE	
BACN10YR3CD	3	NUT	
BACR15BA4AD6C	9	RIVET, 100 DEG	(a)
BACR15BA5AD4C	6	RIVET, 100 DEG	(a)
BACR15BA5AD5C	6	RIVET, 100 DEG	(a)

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Kit 015U1884			
New Part Number	**QTY**	**Name**	**Notes**
	-1		
BACR15BB5AD6C	22	RIVET, UNIVERSAL HEAD	(a)
BACS12GU3K30	1	SCREW, CAP	
BACS12HN3-10	5	BOLT	(a)
BACS12HN3-11	3	BOLT	(a)
BACS12HN3-12	1	BOLT	
BACS12HN3-20	1	BOLT	
BACS12HN3-9	8	BOLT	(a)
BACS31H2B	20	RINGPOST, WIRE HARNESS MOUNTING SUPPORT	(a)
BACS38K3	1	STRAP	
BACS38K1	2	STRAP	
BACS38W1	50	TIE STRAP	(a)
NAS1149D0332J	6	WASHER	(a)
NAS1149D0363J	16	WASHER, FLAT	(a)
NAS43DD3-48FC	1	SPACERS FOR BOLTS	
NAS43DD3-18FC	1	SPACERS FOR BOLTS	
NAS43DD3-50FC	1	SPACERS FOR BOLTS	
NAS43DD6-9FC	3	SPACER, SLEEVE	(a)
(a) There are more parts than are necessary			
(b) If grip length shown is not available at Boeing, fasteners supplied in kits may be one grip length longer than indicated. Also, if any fasteners part numbers listed are not available or have been superseded, substitute fasteners may be supplied in kits. Boeing Document D-590 and Boeing Drawing 65B88700 are used to determine the part numbers used as substitutes.			

2. Parts and Materials Supplied by the Operator

Part Number / Specification	**QTY**	**Name**	**Notes**
BMS 5-95	12 OZ	SEALANT	(a)
BMS 5-92	12 OZ	ADHESIVE	(a)
BMS 3-27	8 OZ	CORROSION INHIBITING COMPOUND	(a)
ALODINE 1200 or 1200S	8 OZ	ALODINE SOLUTION	(a)
(a) See the Qualified Products List at the end of the Boeing Material Specification (BMS) for supplier data.			

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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.

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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. The sequence of steps to do this service bulletin can be changed.

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 given in 747 SRM 51
   – Torque limits to tighten nuts and bolts are given in 747 SRM 51

5. Use the approved fastener and process material substitutions in accordance with 747 SRM 51. Alternate fasteners are listed in 747 SRM 51 and Boeing Drawing 012W6100 .

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 747-400SF SRM 51, then a fastener of the same specification, or an approved substitute, with a length which meets the installation standards in 747-400SF SRM 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.

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B. WORK INSTRUCTIONS

1. Remove main deck floor panels between STA 340 and STA 400 and LBL 80 and LBL 0. Refer to 747-400 AMM 53-21-02 as an accepted procedure.

2. Remove existing drip shield in accordance with Figure 1.

3. Loosen wire bundles routing in accordance with Figure 2.

4. Install provisions for wire bundle routing in accordance with Figure 3.

5. Relocate wire bundle routing in accordance with Figure 4.

6. Install new drip shield in accordance with Figure 5.

7. Install drip shield deflectors in accordance with Figure 6.

8. Replacement of insulation blanket in accordance with Figure 7.

9. Install main deck floor panels between STA 340 and STA 400 and LBL 80 and LBL 0. Refer to 747-400 AMM 53-21-02 as an accepted procedure.

10. Put the airplane back to a serviceable condition.

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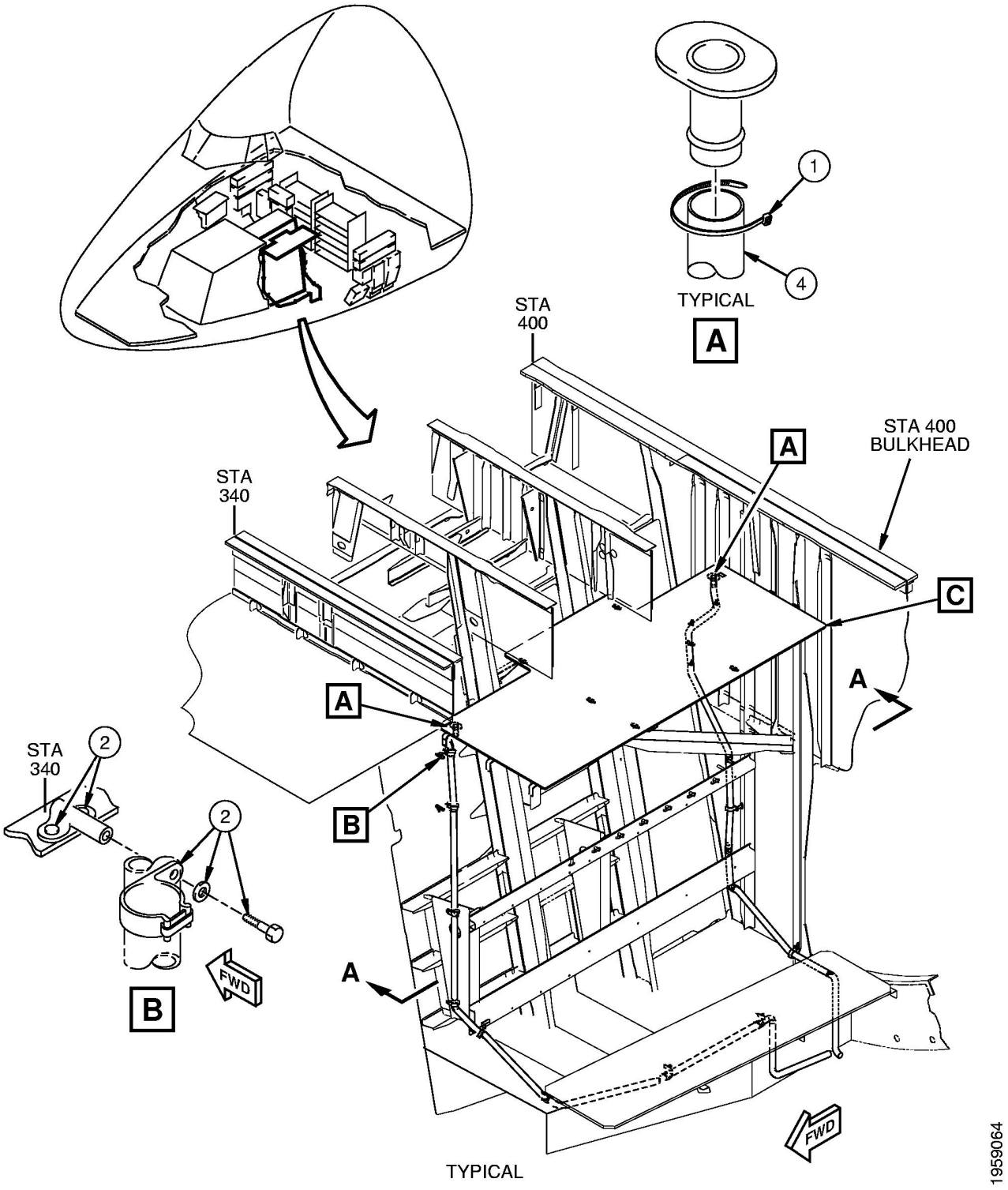


FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD (SHEET 1 OF 5)

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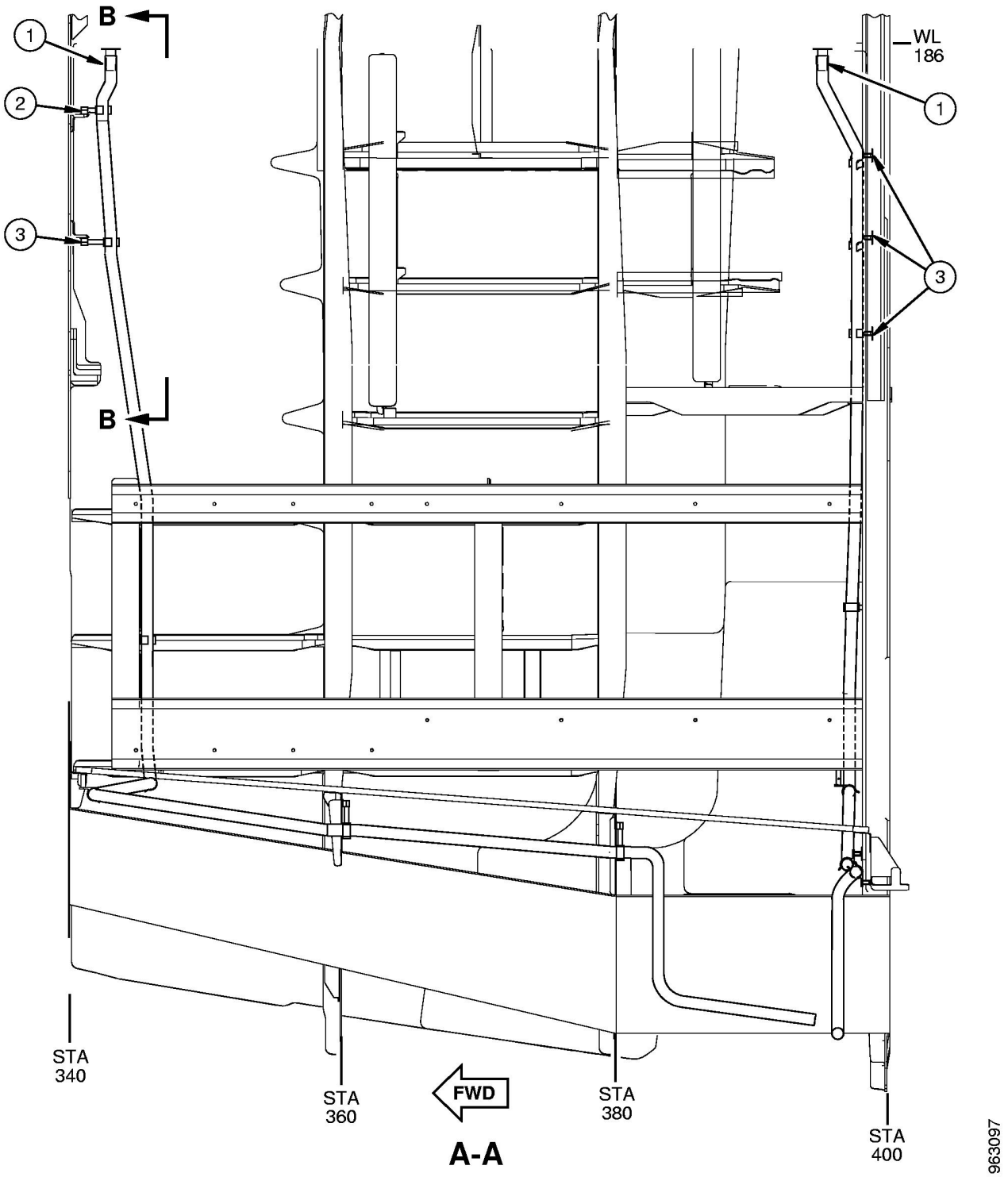


FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD (SHEET 2 OF 5)

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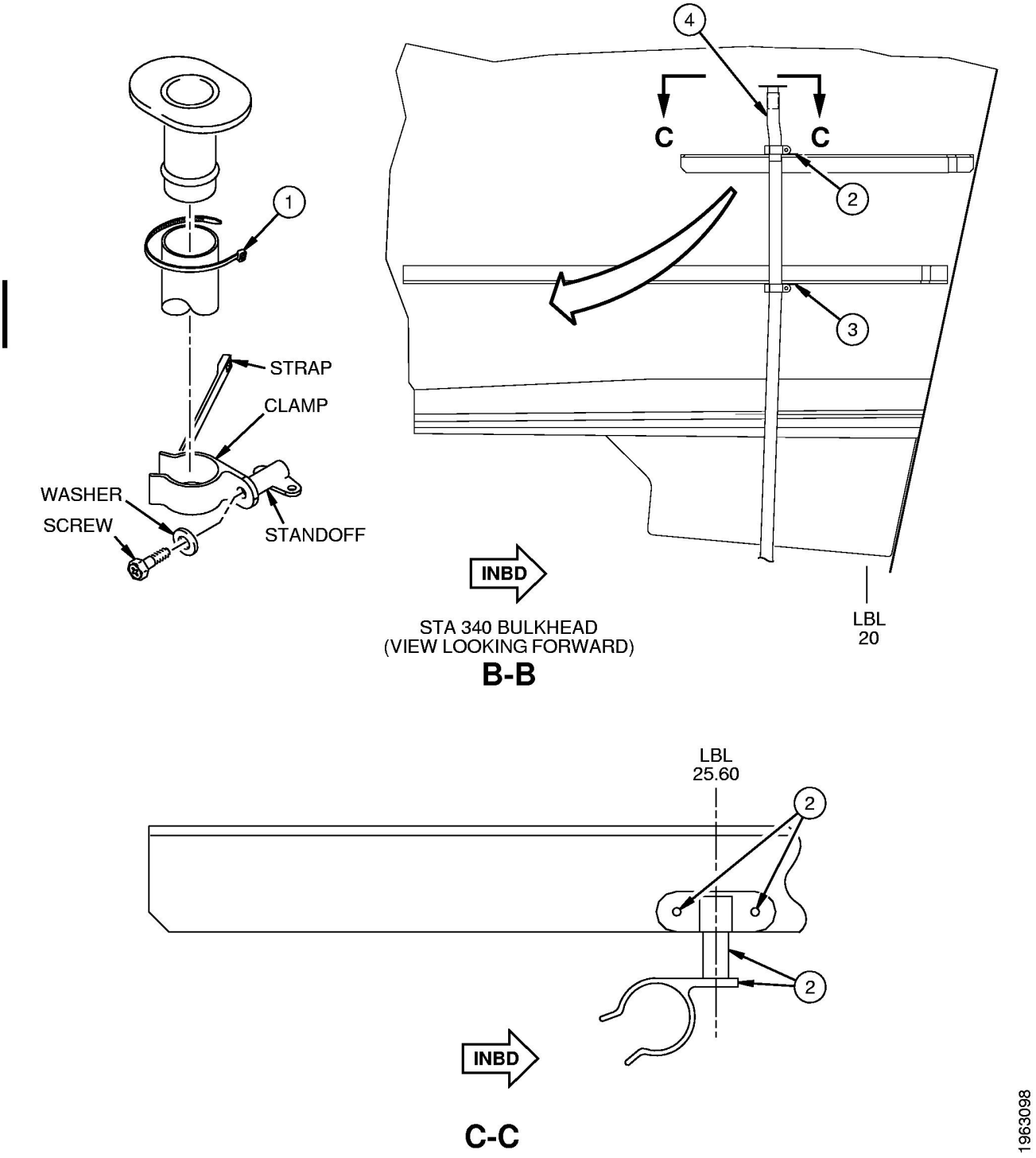
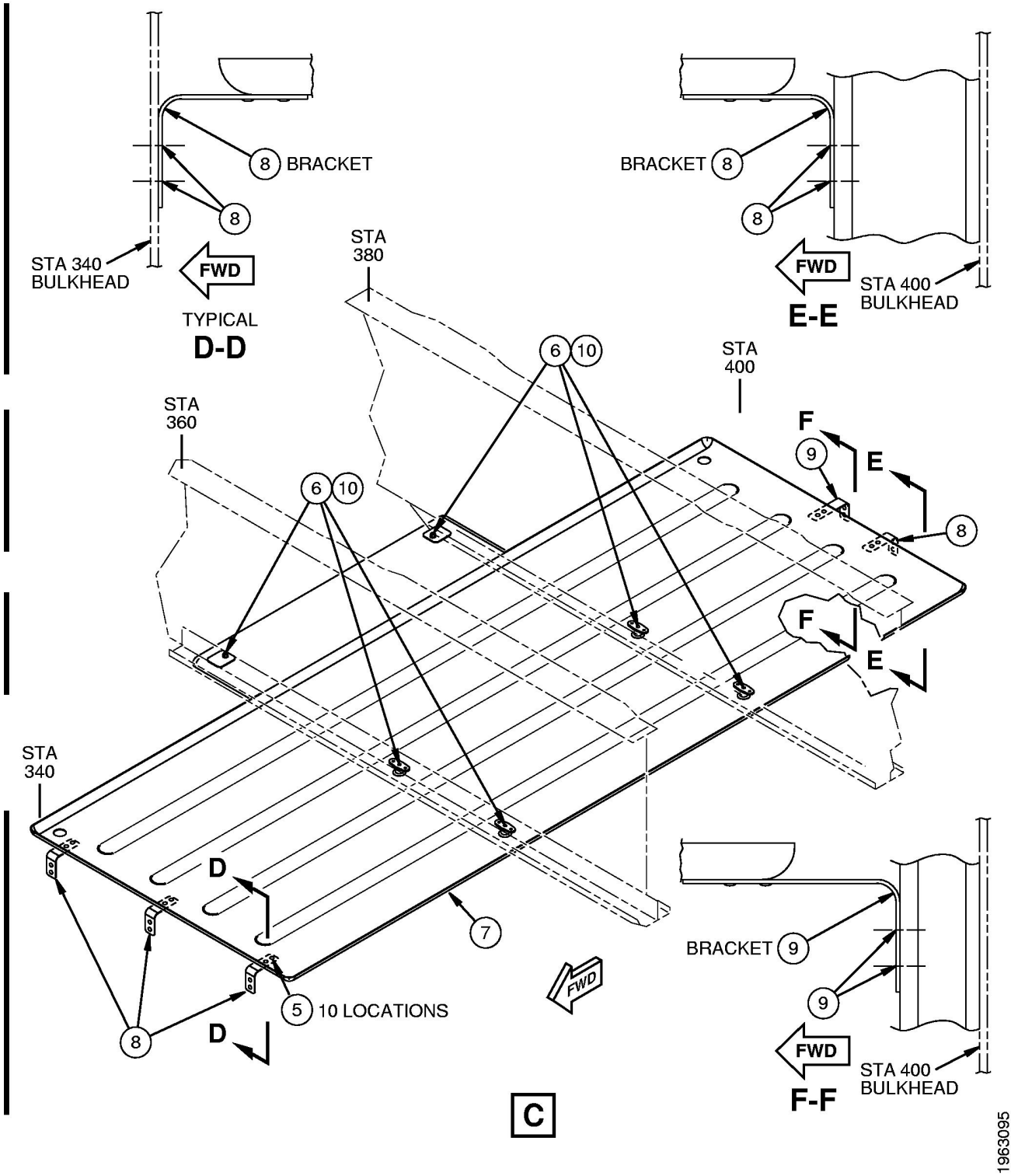


FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD (SHEET 3 OF 5)

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FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD (SHEET 4 OF 5)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	STRAP	BACS38K1	2	near STA 340 and STA 400
2	Remove	DRAINAGE TUBE CLAMP	-	1	
	Remove	FASTENER	-	2	STA 340, LBL 25.60, WL 180
	Remove	SUPPORTING STANDOFF	-	1	From horizontal stiffener (STA 340, LBL 25.60, WL 180)
	Install (New)	RIVET, 100 DEG	BACR15BA4AD6C	2	(a) Fill holes in horizontal stiffener (STA 340, LBL 25.60, WL 180)
3	Loosen	DRAINAGE TUBE CLAMP	-	-	(b) Typical: 1 STA 340 and 3 STA 400
4	Disconnect	DRAINAGE TUBE	-	2	near STA 340 and STA 400
5	Remove	FASTENER	-	10	6 (STA 340) and 4 (STA 400)
6	Remove	SCREW	-	3	at STA 360
	Remove	SCREW	-	3	at STA 380
7	Remove	DRIP SHIELD	-	1	284U1364-1, or -2, or -3.
8	Remove	BRACKET - DRIP SHIELD MOUNTING	284U1363-1	4	3 (STA 340 bulkhead) and 1 (STA 400 bulkhead)
	Remove	FASTENER	-	8	6 (STA 340 bulkhead) and 2 (STA 400 bulkhead)
	Install (New)	RIVET, 100 DEG	BACR15BA5AD4C	8	(a) Fill holes 6 (STA 340) and 2 (STA 400). Flush is not required.
9	Remove	BRACKET - DRIP SHIELD MOUNTING	284U1363-4	1	STA 400 bulkhead
	Remove	FASTENER	-	2	STA 400 bulkhead
	Install (New)	RIVET, 100 DEG	BACR15BA5AD4C	2	(a) Fill holes 2 (STA 400 bulkhead). Flush is not required.
10	Remove	NUTPLATE	-	3	at STA 360
	Remove	NUTPLATE	-	3	at STA 380
(a) Apply Alodine 1200 conversion coating and corrosion inhibiting compound (BMS3-27). Refer to SOPM 20-43-03 and 747-400SF SRM Chapter 51 as accepted procedures.					
(b) Loosen the drain tube clamp(s) from the supporting standoff as needed.					

FIGURE 1: ELECTRONICS EQUIPMENT CENTER - REMOVAL OF EXISTING DRIP SHIELD (SHEET 5 OF 5)

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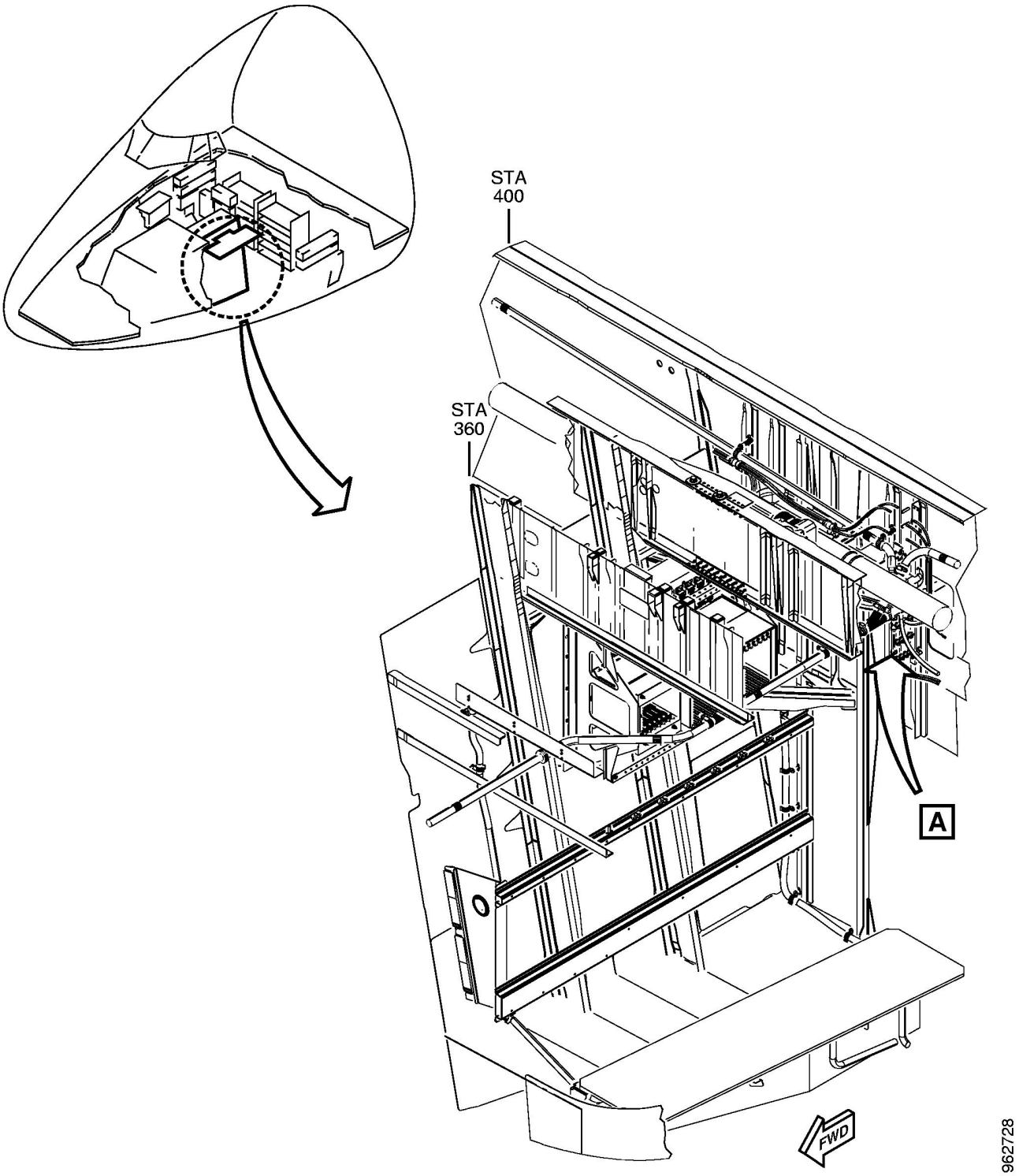


FIGURE 2: ELECTRONICS EQUIPMENT CENTER - LOOSEN AFFECTED WIRE BUNDLES (SHEET 1 OF 4)

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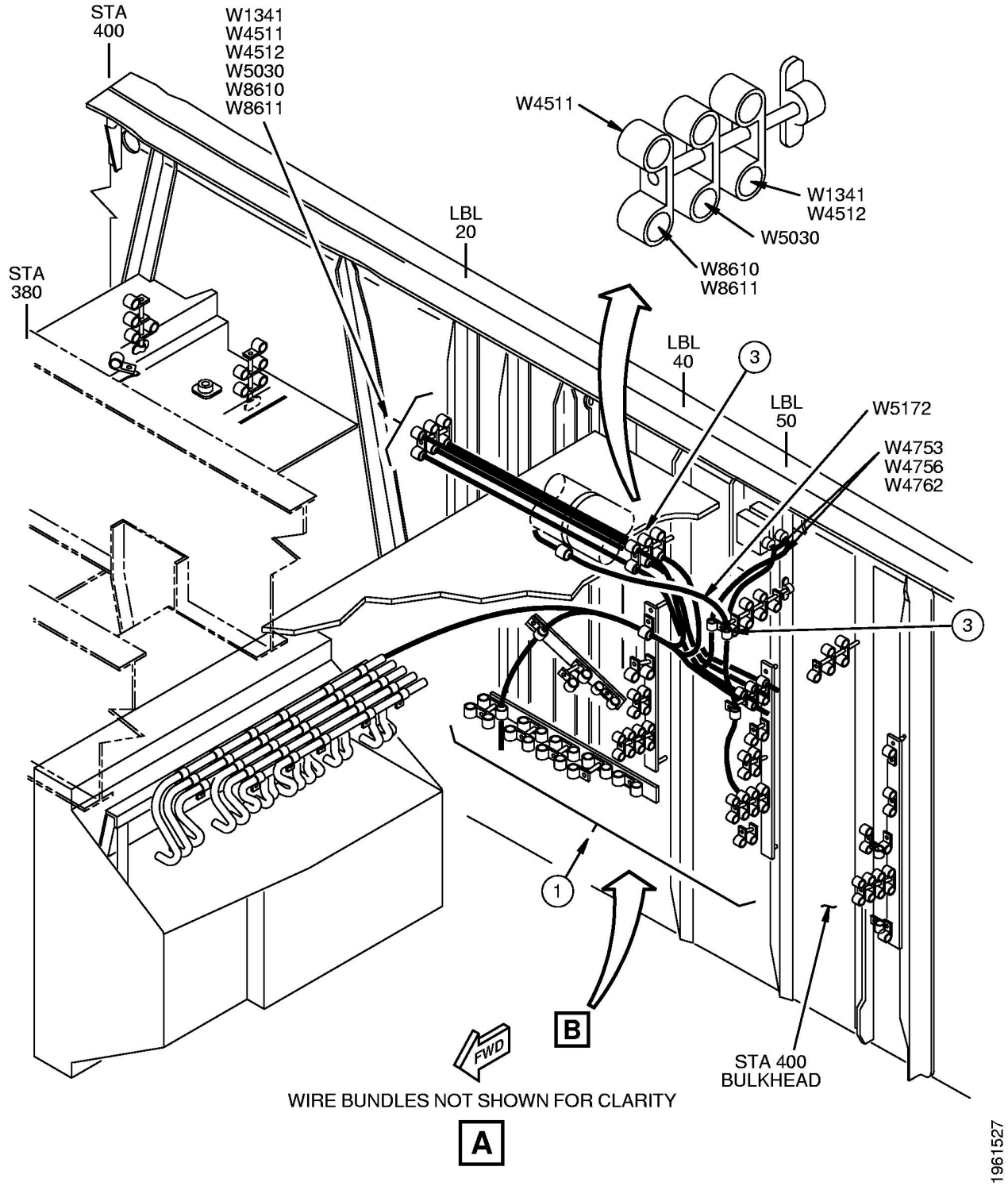
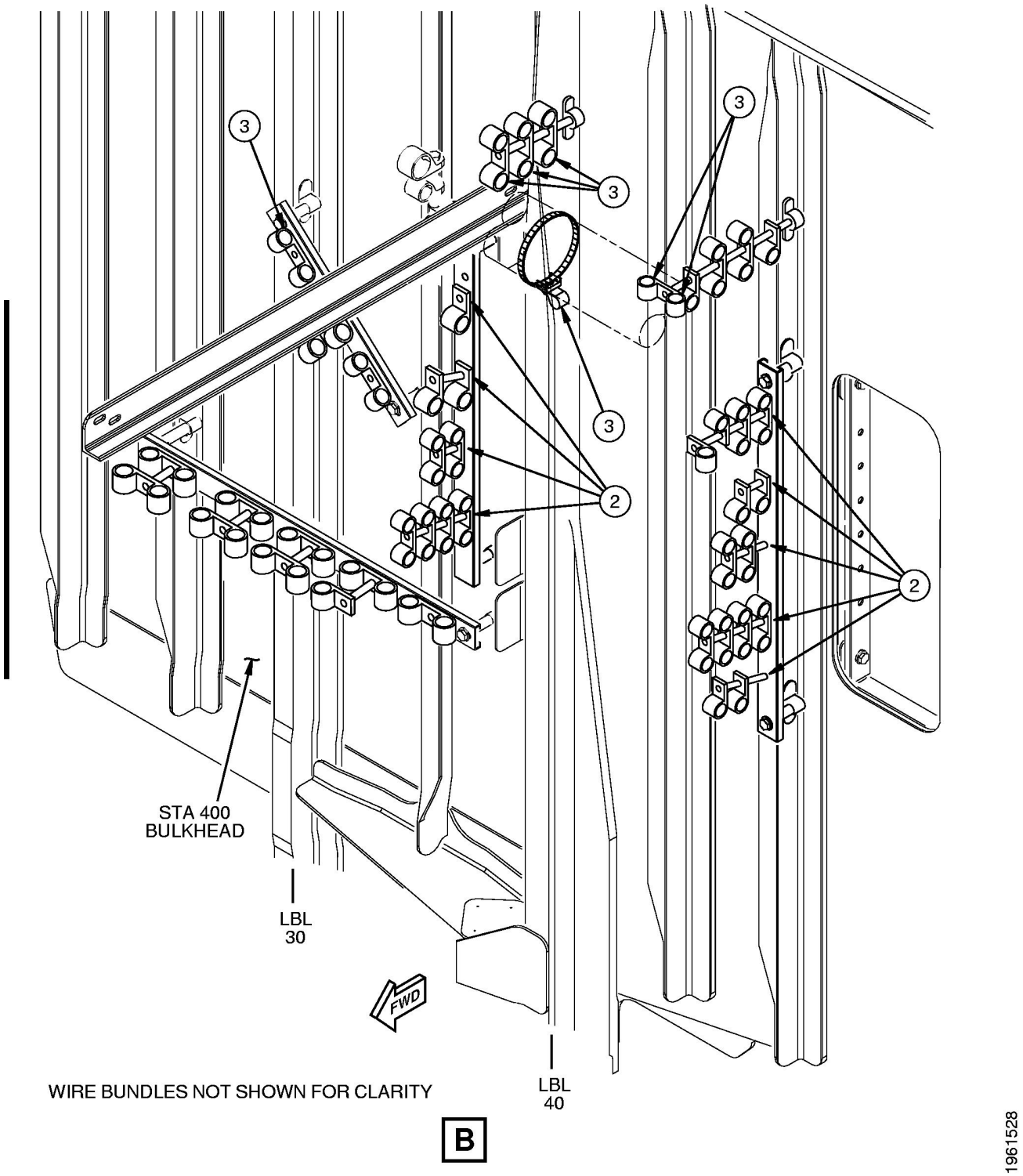


FIGURE 2: ELECTRONICS EQUIPMENT CENTER - LOOSEN AFFECTED WIRE BUNDLES (SHEET 2 OF 4)

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FIGURE 2: ELECTRONICS EQUIPMENT CENTER - LOOSEN AFFECTED WIRE BUNDLES (SHEET 3 OF 4)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Loosen	WIRE BUNDLES	-	-	FORWARD SIDE OF STA 400 BULKHEAD
2	Remove	CLAMP, LOOP	BACC10DK12	-	CLAMPS LOCATED AT WIRE BRACKET ASSY LBL 38 AND LBL 50
3	Remove	CLAMP, LOOP	BACC10DK12	-	(a) (b) (c)
(a) For W4511, W4512, W1341, W5030, W8610, W8611 remove from clamps located at STA 400, LBL40, WL 188.8					
(b) For W5172 remove from clamp located at STA 400, LBL 50, WL 189.					
(c) For W4753, W4756, W4762 remove from clamp located at STA 400, LBL 50, WL 189.					

FIGURE 2: ELECTRONICS EQUIPMENT CENTER - LOOSEN AFFECTED WIRE BUNDLES (SHEET 4 OF 4)

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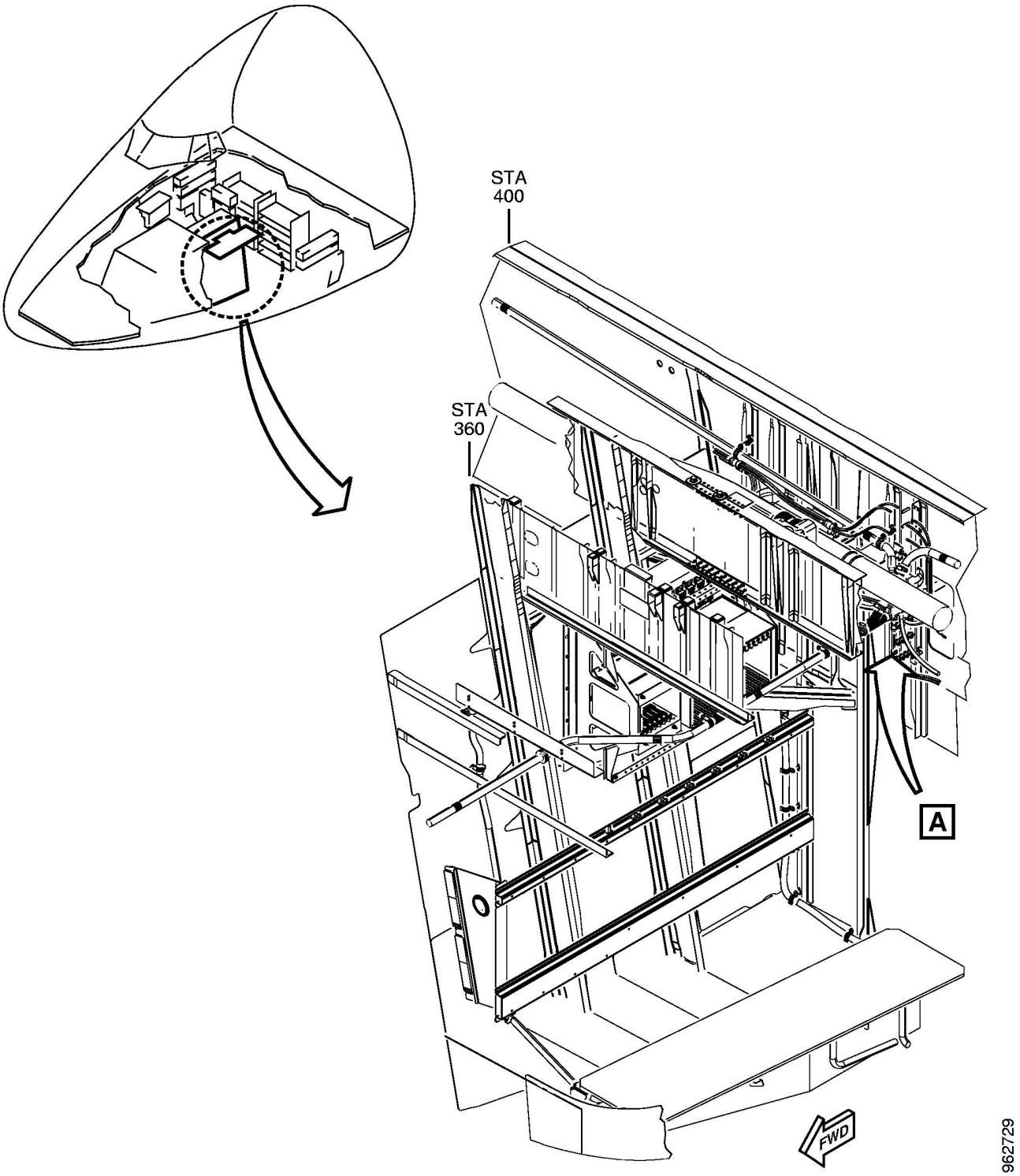


FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION (SHEET 1 OF 5)

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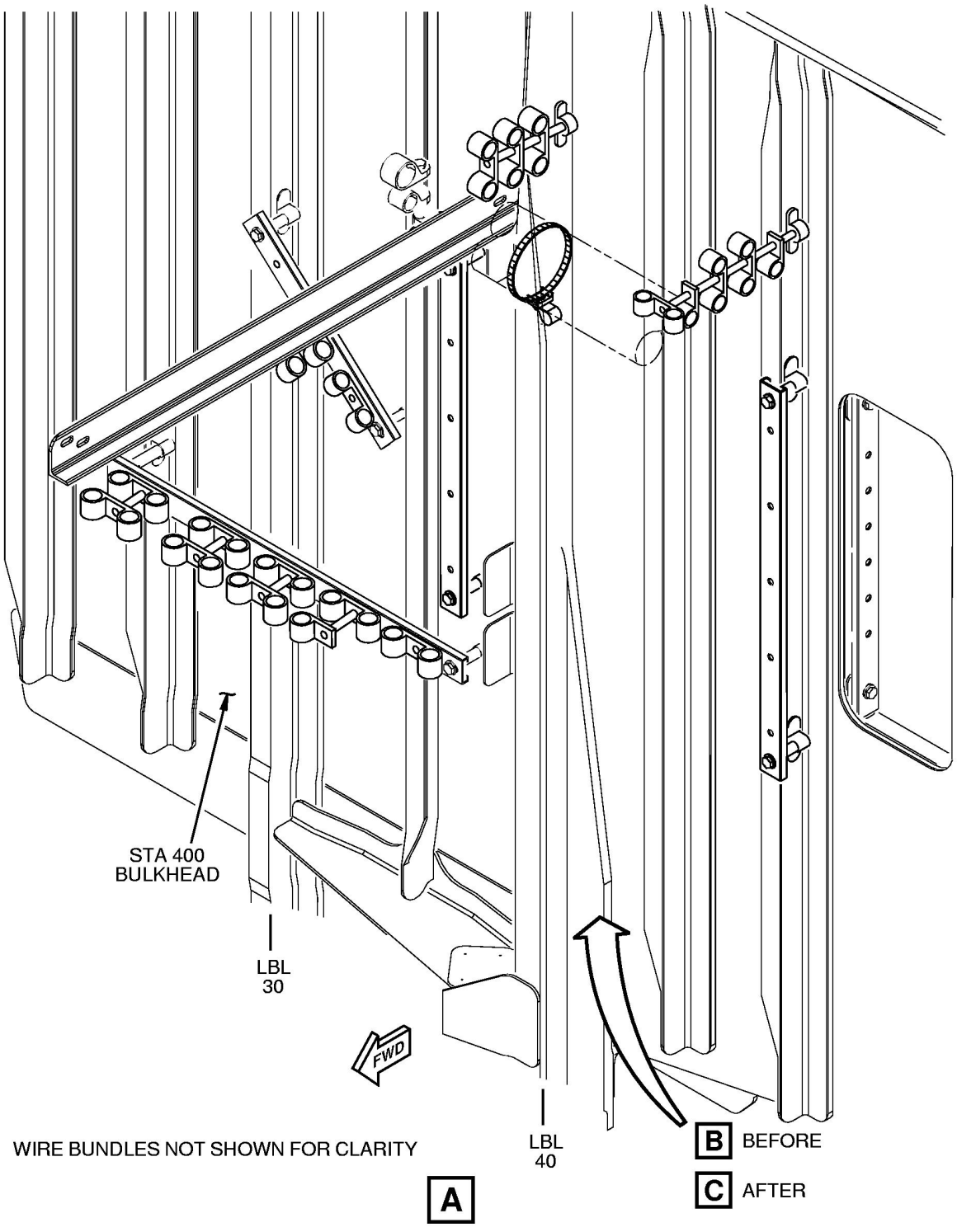
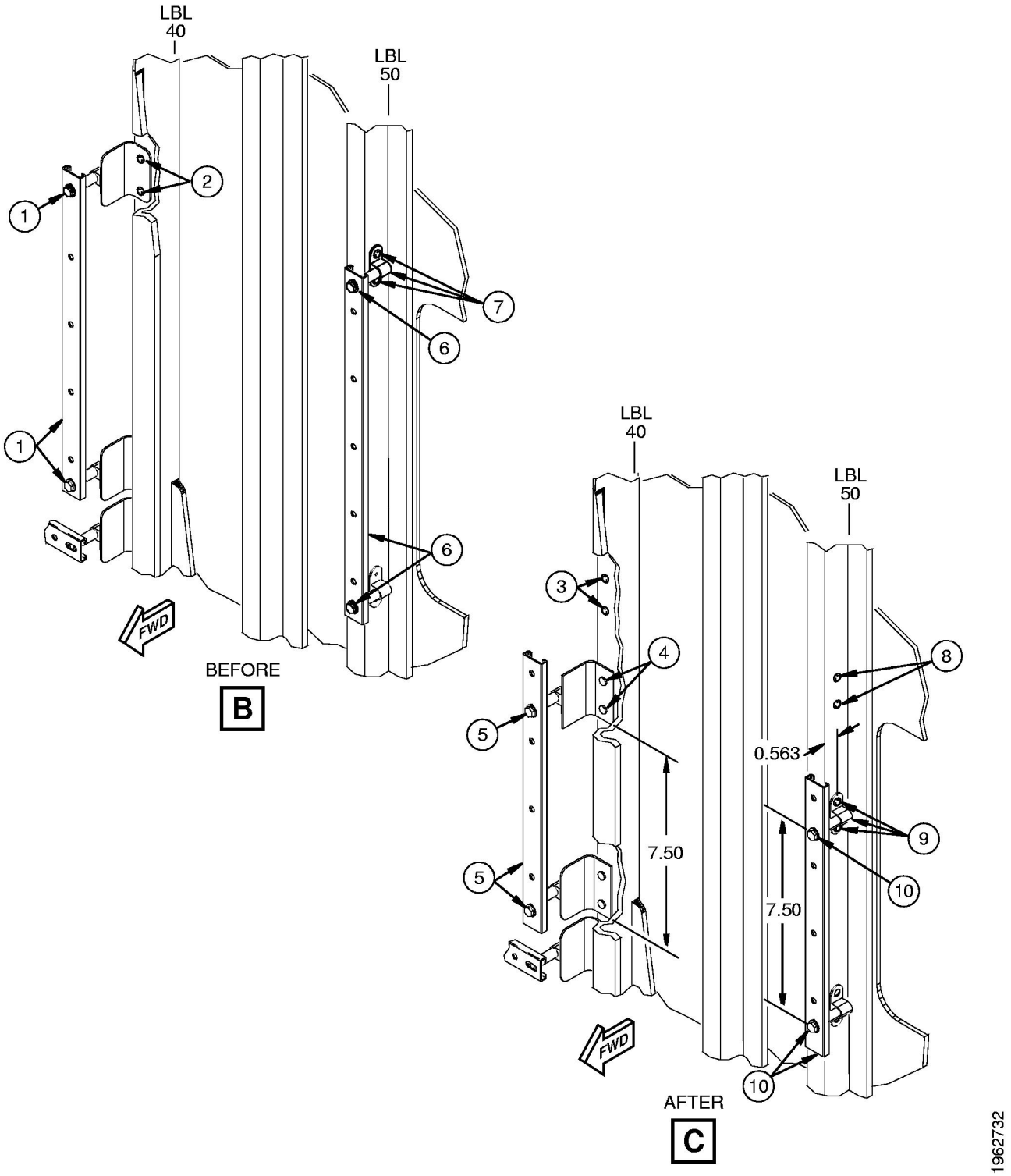


FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION (SHEET 2 OF 5)

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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.

FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION (SHEET 3 OF 5)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	BRACKET ASSY	287U0073-57	1	LBL 38, STA 400
	Remove	FASTENER	-	2	
2	Remove	NUT SPACER ASSY	287U0072-53	1	UPPER NUT SPACER ASSY
	Remove	FASTENER	-	2	LBL 38, STA 400
3	Install (New)	BOLT, PROTRUDING HD	BACB30VN6K7	2	(a) (b) PLUG OPEN HOLES
	Install (New)	COLLAR	BACC30BK6	2	
4	Drill	HOLE	-	2	(a) Pick up existing Fasteners
	Install (New)	NUT SPACER ASSY	287U0072-53	1	LBL 38, STA 400
	Install (New)	BOLT, PROTRUDING HD	BACB30VN6K8	2	
	Install (New)	COLLAR	BACC30BK6	2	
5	Install (New)	WIRE BRACKET ASSY	672U7102-8	1	LBL 38, STA 400
	Install (New)	BOLT	BACS12HN3-10	2	
	Install (New)	WASHER	NAS1149D0332J	2	
6	Remove	BRACKET	287U0073-55	1	STA 400, LBL 50
	Remove	FASTENER	-	2	
7	Remove	NUT, SPACER PLATE	-	1	UPPER NUT SPACER
	Remove	FASTENER	-	2	STA 400, LBL 50, WL 186
8	Install (New)	RIVET	BACR15BB5D5C	2	(a) (b) PLUG OPEN HOLES
9	Drill	HOLE	DIA. 0.128 - 0.135	2	(a)
	Install (New)	NUT, SPACER PLATE	BACN10GH3A10	1	LBL 50, STA 400
	Install (New)	RIVET, UNIVERSAL HEAD	BACR15BB4D5C	2	
10	Install (New)	WIRE BRACKET ASSY	672U7102-8	1	LBL 50, STA 400
	Install (New)	BOLT	BACS12HN3-10	2	
	Install (New)	WASHER	NAS1149D0332J	2	

(a) Apply Alodine 1200 conversion coating and corrosion inhibiting compound (BMS3-27). Refer to SOPM 20-43-03 as an accepted procedure.

FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION (SHEET 4 OF 5)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
(b) Refer to 747-400SF SRM Chapter 51 as an accepted procedure.					

FIGURE 3: ELECTRONICS EQUIPMENT CENTER - PROVISIONS FOR WIRE BUNDLE RELOCATION (SHEET 5 OF 5)

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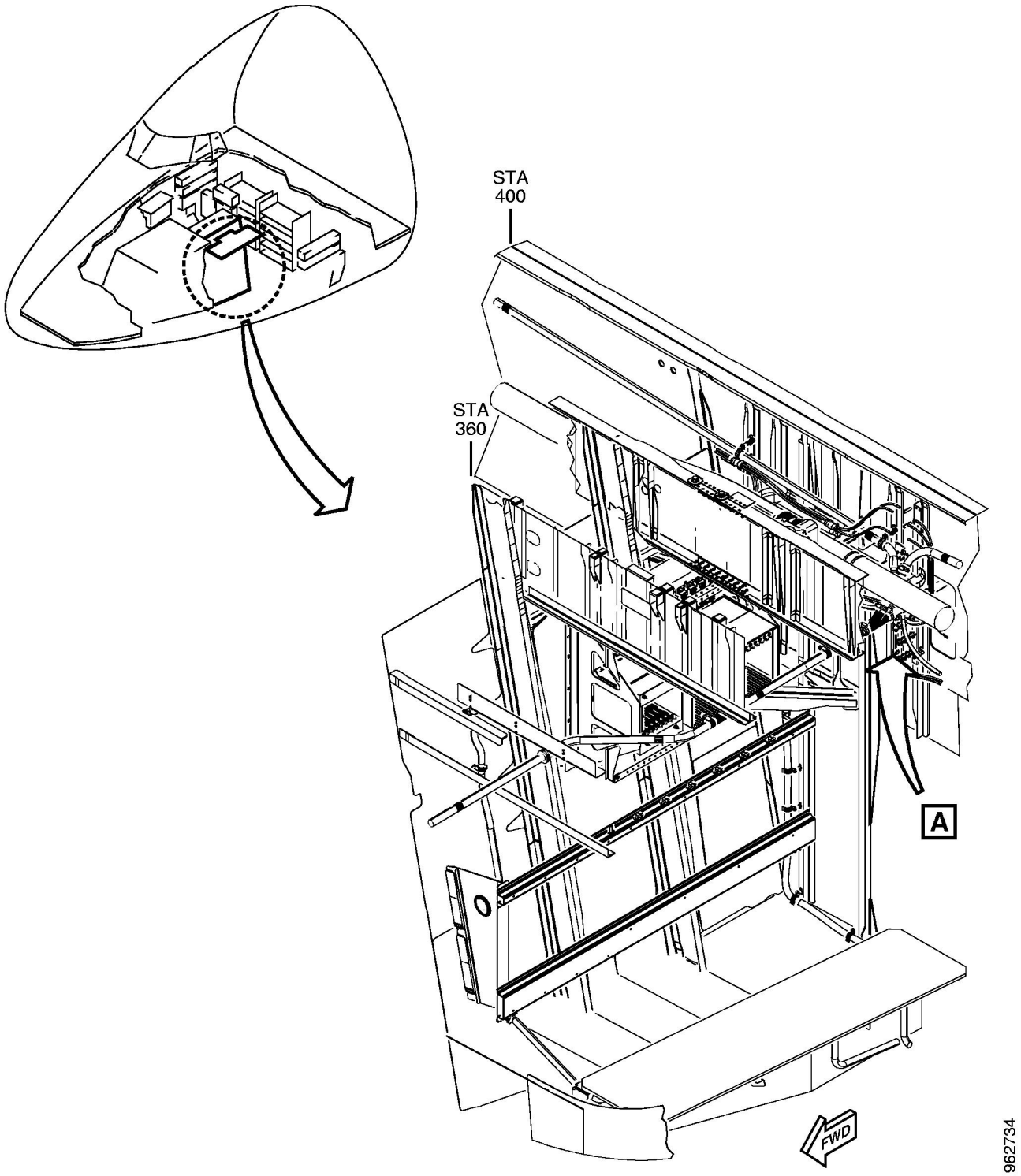
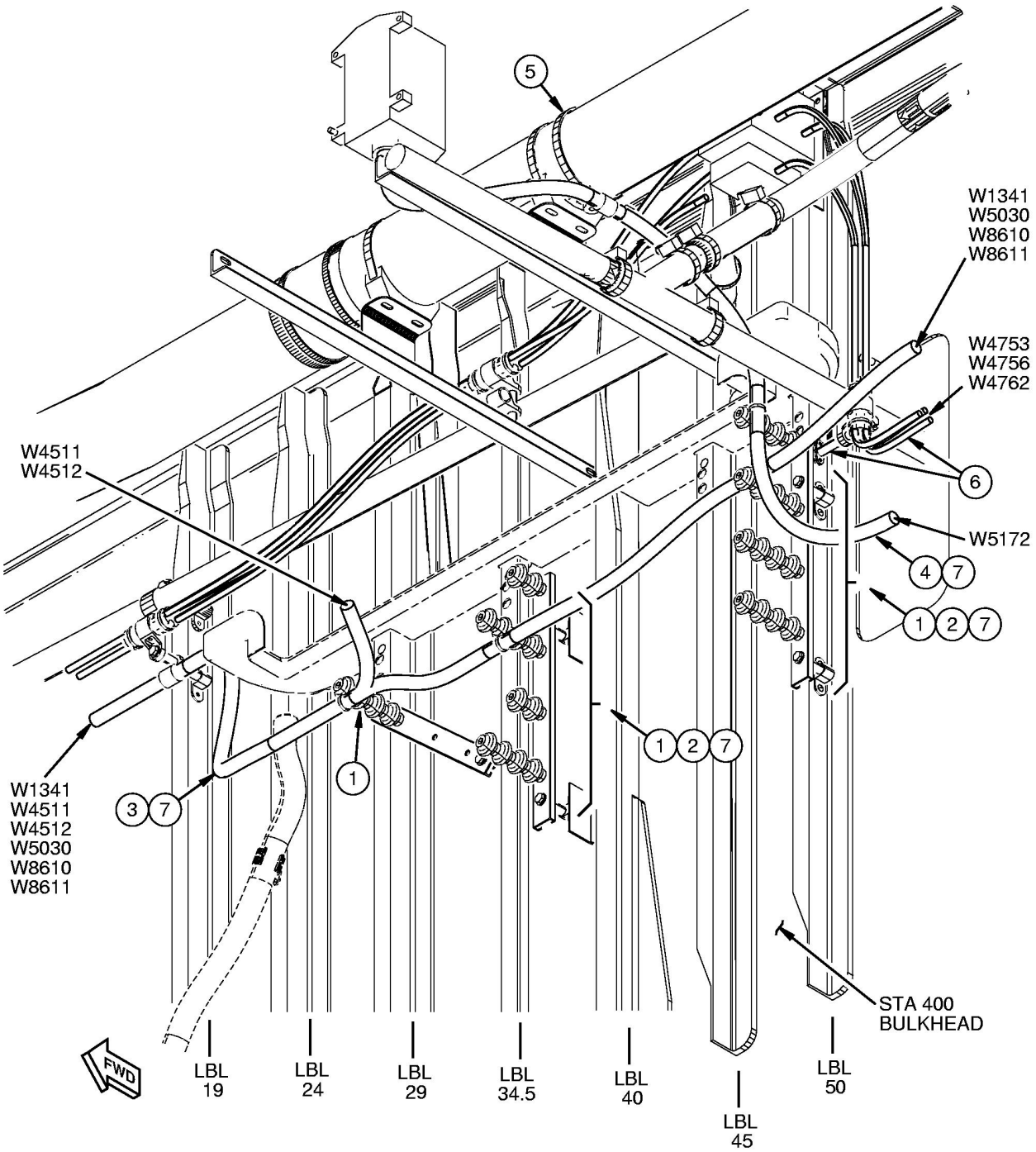


FIGURE 4: ELECTRONICS EQUIPMENT CENTER - RELOCATE WIRE BUNDLES ROUTING (SHEET 1 OF 4)

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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.

FIGURE 4: ELECTRONICS EQUIPMENT CENTER - RELOCATE WIRE BUNDLES ROUTING (SHEET 2 OF 4)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	RING POST, WIRE MOUNTING SUPPORT	BACS31H2B	15	(a) Replace BACC10DK Clamps with BACS31H2B Ring posts and BACS38W1 Straps as needed to allow re-routing.
2	Install (Kept)	WIRE BUNDLES	-	-	Route and strap to the ring posts as necessary
3	Route	WIRE BUNDLES	-	6	(b) W4511, W4512 and W1341, W5030, W8610, W8611 strap to ring post at the old bracket.
	Route	WIRE BUNDLES	-	2	W4511 and W4512 break out to the card file
4	Route	WIRE BUNDLE	-	1	(b) W5172 routing support is no longer required from the clamp at WL 189, LBL 50, STA 400 bulkhead.
5	Install (New)	STRAP	BACS38K3	-	Readjust the position of the strap on the ECS duct to allow re-routing.

FIGURE 4: ELECTRONICS EQUIPMENT CENTER - RELOCATE WIRE BUNDLES ROUTING (SHEET 3 OF 4)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
6	Route	WIRE BUNDLES	-	3	(b) (c) W4753, W4756, W4762 attach to an existing standoff that carries a drainage line at LBL 51 and WL 183
	Route	CLAMP, LOOP	BACC10DK12	1	Support is no longer required from the clamp located at WL 189, LBL 50.
	Install (New)	SPACERS FOR BOLTS	NAS43DD3-48FC	1	
	Install (New)	GROMMET	69B47961-5	-	To maintain separation of Coax wire bundles
	Install (New)	WASHER	NAS1149D0332J	1	
	Install (New)	SCREW, CAP	BACS12GU3K30	1	
7	Install (New)	TIE STRAP	BACS38W1	36	To hold wire bundles to the ring posts

(a) Add and install ringposts as required to support wiring in the airplane, variance of the ring post locations is acceptable to allow rerouting attachment in a more confined space.

(b) Maintain original wire separations as required. Refer to SWPM 20-10-19 as an accepted procedure.

(c) Use filler rod and adjustable straps where required.

FIGURE 4: ELECTRONICS EQUIPMENT CENTER - RELOCATE WIRE BUNDLES ROUTING (SHEET 4 OF 4)

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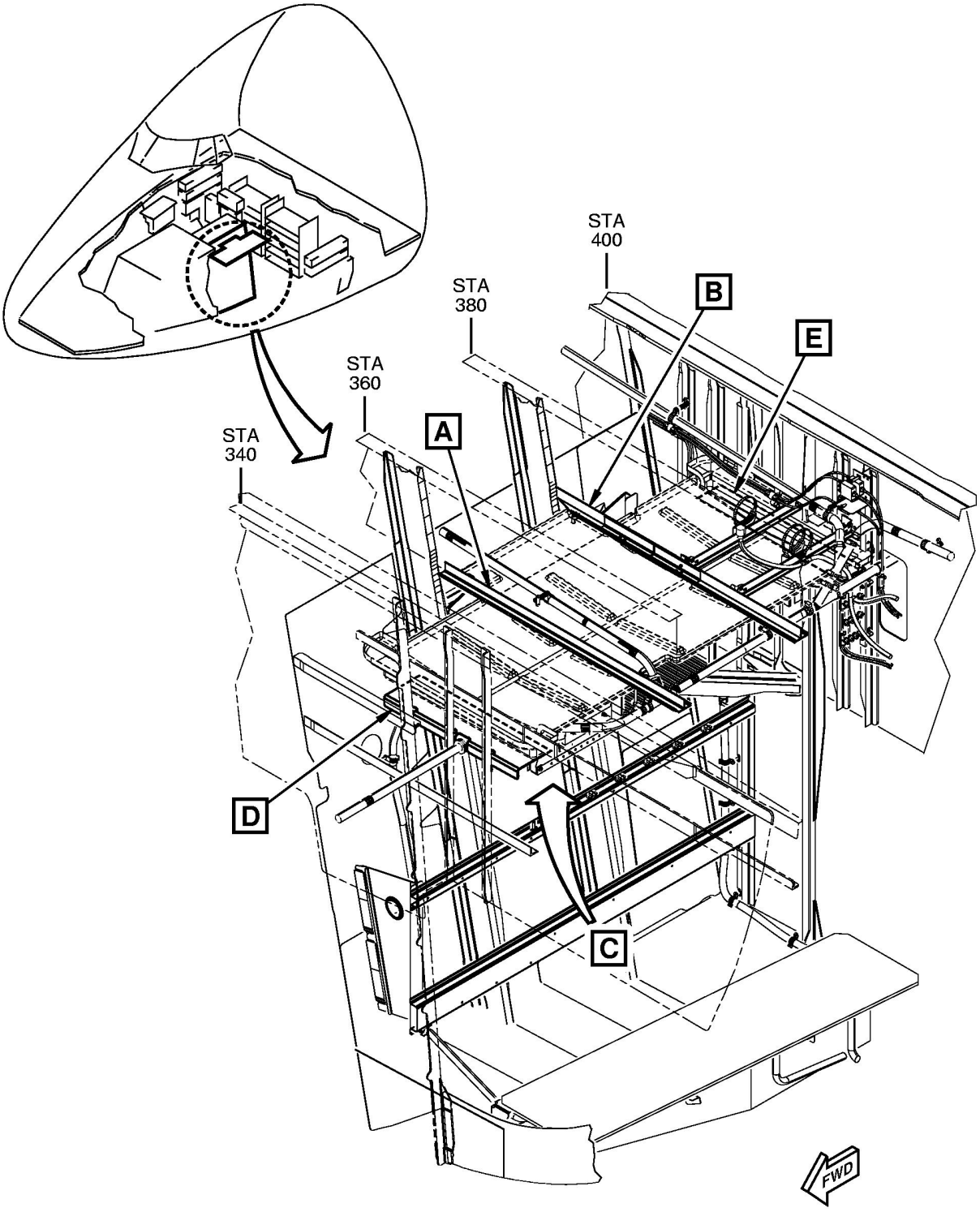


FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY (SHEET 1 OF 8)

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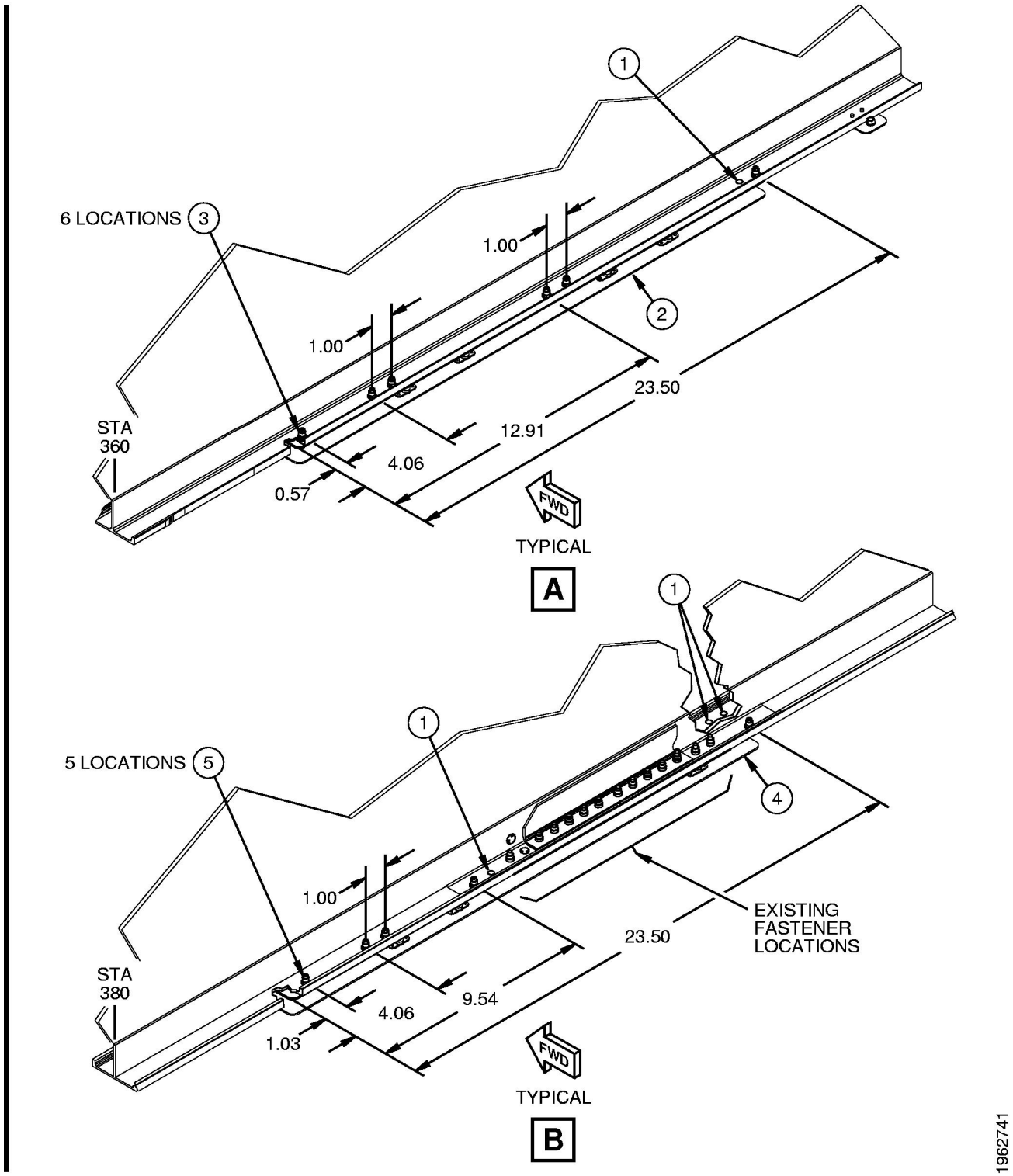


FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY (SHEET 2 OF 8)

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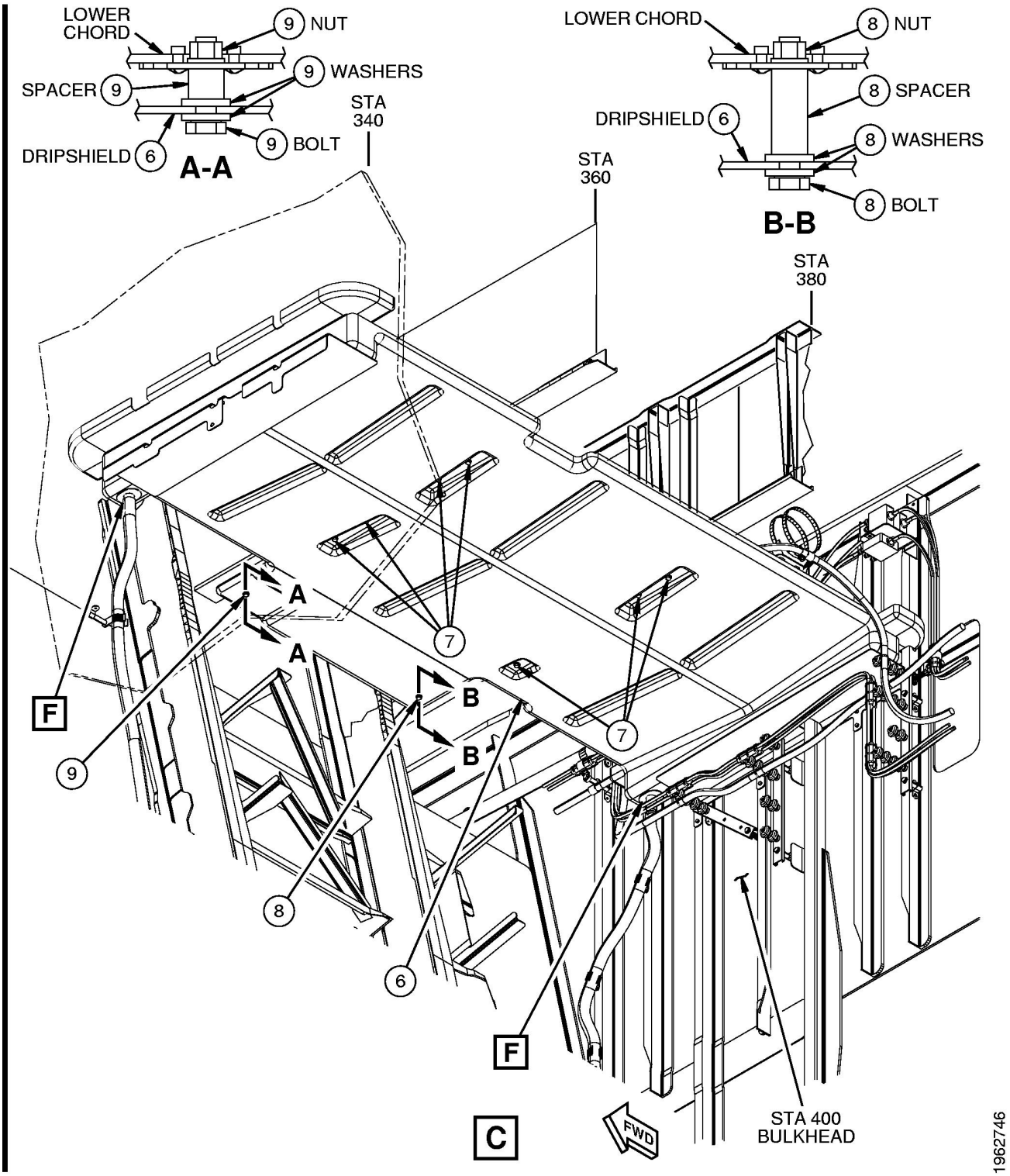


FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 3 OF 8)

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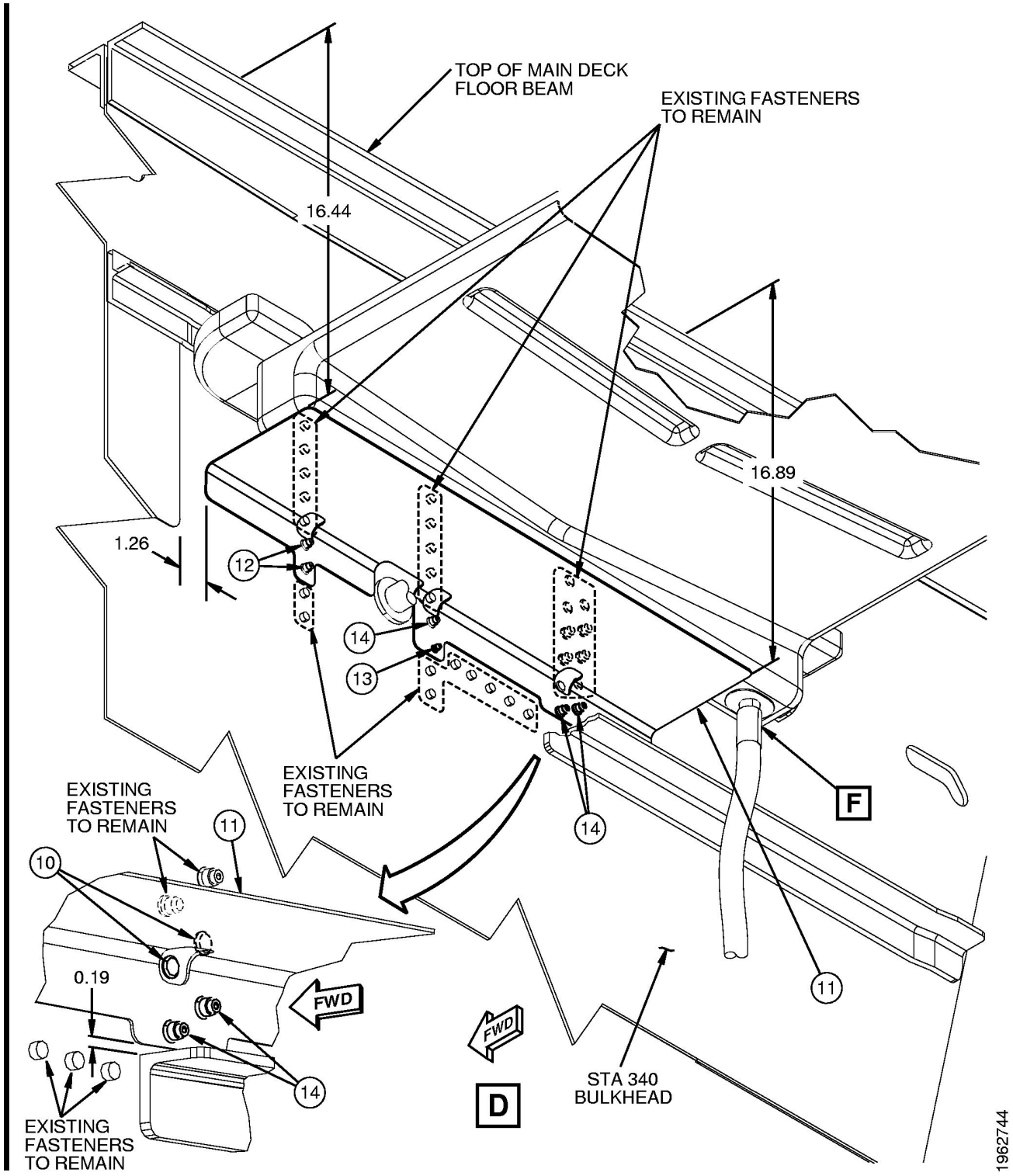
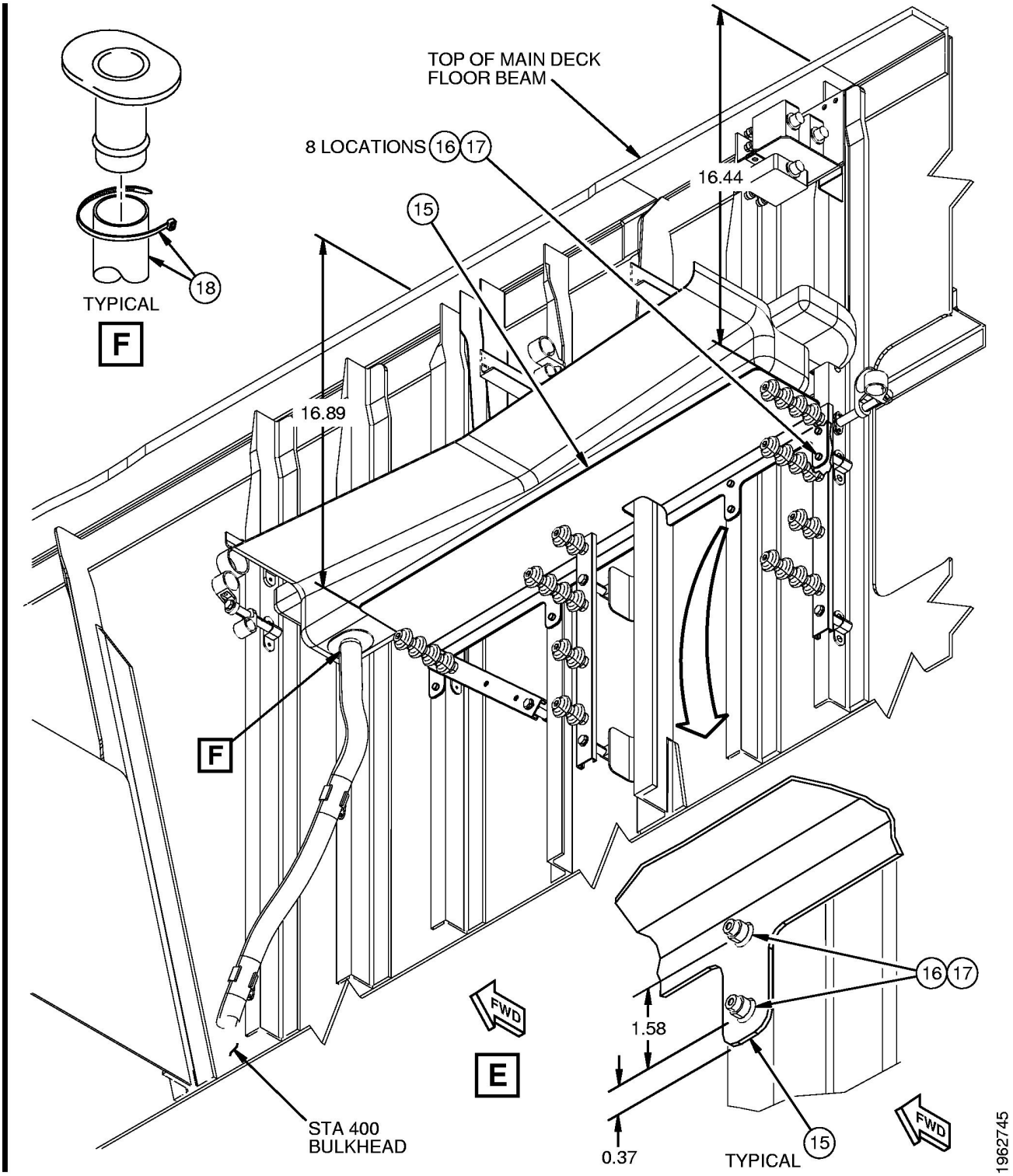


FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 4 OF 8)

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FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 5 OF 8)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Install (New)	RIVET, 100 DEG	BACR15BA4AD6C	4	(a) (b) Fill holes in lower chord. 1 hole STA 360 and 3 holes in STA 380. TYPICAL, CONFIGURATION MAY VARY
2	Locate	DRIP SHIELD - STA 360 BRACKET ASSY	672U7102-9	1	Position bracket at installation indicated by figure at STA 360
3	Drill	HOLE	DIA. 0.187 - 0.190	6	(a) (b) 5 EXISTING HOLES + 1 NEW HOLES (TYPICAL)
	Install (New)	BOLT, PROTRUDING HEAD	BACB30VT6K3	6	(a) INSTALL BRACKET TO LOWER CHORD STA 360
	Install (New)	COLLAR	BACC30BL6	6	(a)
4	Locate	DRIP SHIELD - STA 380 BRACKET ASSY	672U7102-10	1	Position bracket at installation indicated by figure at STA 380
5	Drill	HOLE	DIA. 0.187 - 0.190	5	(a) (b) 3 EXISTING HOLES + 2 NEW HOLES (TYPICAL)
	Install (New)	BOLT, PROTRUDING HEAD	BACB30VT6K3	5	(a) INSTALL BRACKET TO LOWER CHORD STA 380
	Install (New)	COLLAR	BACC30BL6	5	(a)
6	Install (New)	DRIP SHIELD - ASSY	672U7102-11	1	Position dripshield at installation indicated by figure
7	Install (New)	BOLT	BACS12HN3-9	7	Backdrill through drip shield in location of nutplates on 672U7102-9 and 672U7102-10.
	Install (New)	WASHER, FLAT	NAS1149D0363J	7	(a) 4 at STA 360 and 3 at STA 380
	Apply	SEALANT	BMS 5-95	-	Install bolts wet with BMS 5-95 sealant.
8	Install (New)	BOLT	BACS12HN3-20	1	(a) (b) Backdrill through drip shield in location of nutplate on lower chord STA 380
	Install (New)	WASHER, FLAT	NAS1149D0363J	1	Washer goes to each side of the drip shield
	Install (New)	WASHER, FLAT	NAS1149D0363J	1	Washer goes to each side of the drip shield
	Install (New)	SPACERS FOR BOLTS	NAS43DD3-50FC	1	(a)
	Install (New)	NUT	BACN10YR3CD	1	(a)

FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 6 OF 8)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
9	Install (New)	BOLT	BACS12HN3-12	1	(a) (b) Backdrill through drip shield in location of nutplate on lower chord STA 360
	Install (New)	WASHER, FLAT	NAS1149D0363J	1	Washer goes to each side of the drip shield
	Install (New)	WASHER, FLAT	NAS1149D0363J	1	Washer goes to each side of the drip shield.
	Install (Changed)	SPACERS FOR BOLTS	NAS43DD3-18FC	1	(a)
	Install (Changed)	NUT	BACN10YR3CD	1	(a)
10	Inspect	FASTENER	-	-	(a) (b) Make sure the collars are on the forward side of the STA 340 bulkhead.
11	Locate	DRIP SHIELD - FWD BRACKET	672U7102-1	1	Position bracket at installation indicated by figure at STA 340
	Drill	HOLE	-	6	(a) (b) Pick 6 existing rivet locations to match holes drill in the drip shield forward bracket. (STA 340 Bulkhead)
12	Install (New)	BOLT SHEAR LIGHT	BACB30VT8K8	2	(a) STA 340
	Install (New)	COLLAR	BACC30BL8	2	(a)
13	Install (New)	HI - LOK	BACB30VT6K7	1	(a) STA 340
	Install (New)	COLLAR	BACC30BL6	1	(a)
14	Install (New)	BOLT	BACB30VT8K7	3	(a)
	Install (New)	COLLAR	BACC30BL6	3	(a)
15	Locate	DRIP SHIELD - AFT BRACKET	672U7102-2	1	Position bracket at installation indicated by figure at STA 400
16	Drill	HOLE	DIA. 0.191 - 0.202	8	(a) (b) 8 New holes (STA 400)
17	Install (New)	BOLT	BACB30VT6K4	8	(a) INSTALL DRIP SHIELD AFT BRACKET TO STA 400 BULKHEAD
	Install (New)	COLLAR	BACC30BL6	8	(a)
18	Connect	DRAINAGE TUBE	-	2	(c)
	Install (New)	STRAP	BACS38K1	2	(c)

FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 7 OF 8)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
(a) Apply Alodine 1200 conversion coating and corrosion inhibiting compound (BMS3-27). Refer to SOPM 20-43-03 and 747-400SF SRM Chapter 51 as accepted procedures.					
(b) Dimensions are typical. Pick up existing fastener holes where possible. Variance of fastener locations is always acceptable when picking up existing holes. Pick up and fill fastener holes as required. Unless otherwise specified, all plug rivets (new and existing) must be flush with surface as to not interfere with Drip Shield installation.					
(c) Attach drain tube and strap above the bead on the spud. Trim to fit drain lines as required. Tighten all the screw(s) along the drain lines if it was loosen. If there are no drainage tubes, the AFT and FWD DRAINAGE TUBES may be installed in accordance with service bulletin 747-25A3526.					

FIGURE 5: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF ALL SUPPORT BRACKETS AND NEW DRIP SHIELD ASSEMBLY
(SHEET 8 OF 8)

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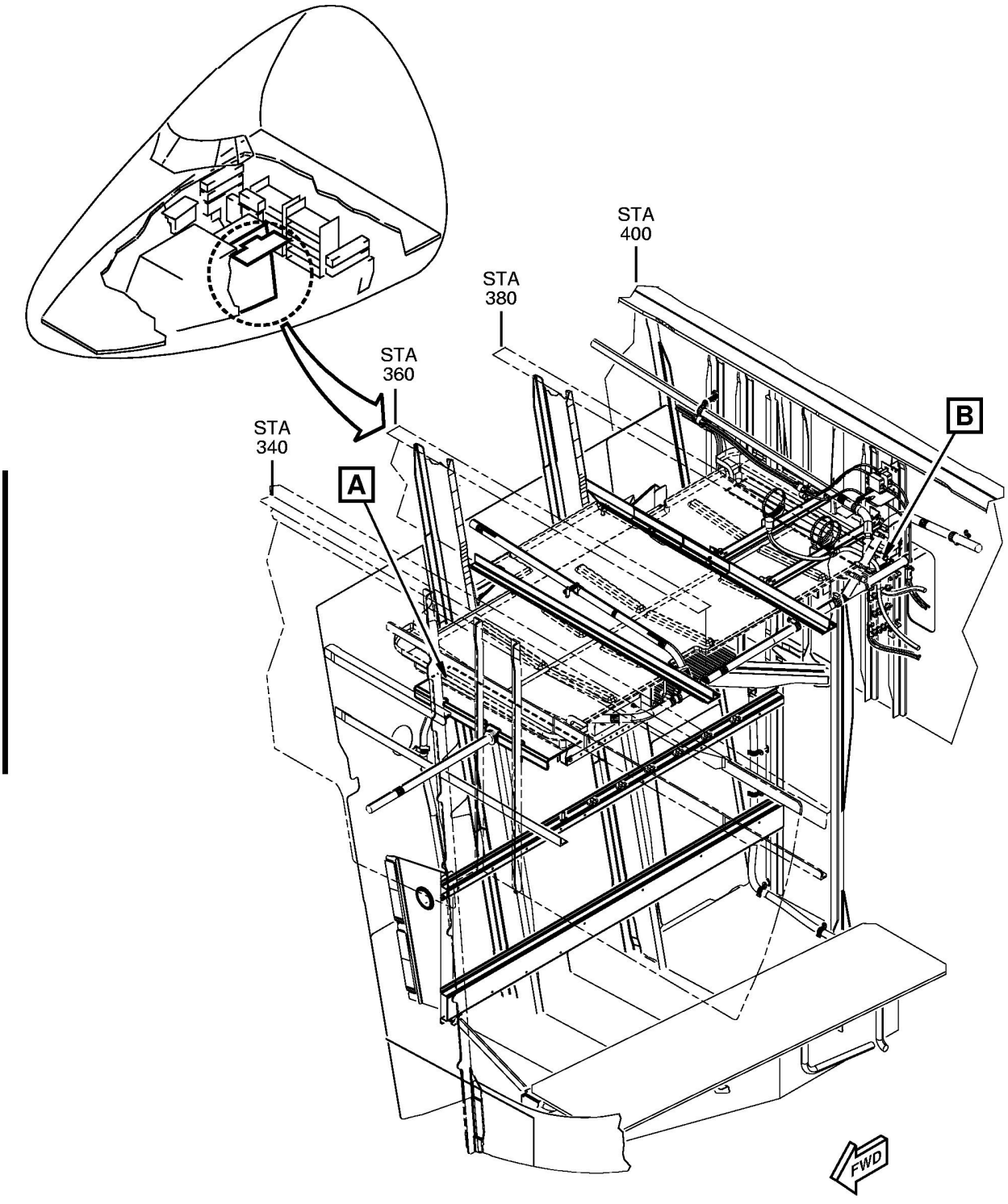


FIGURE 6: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF DRIP SHIELD DEFLECTORS (SHEET 1 OF 4)

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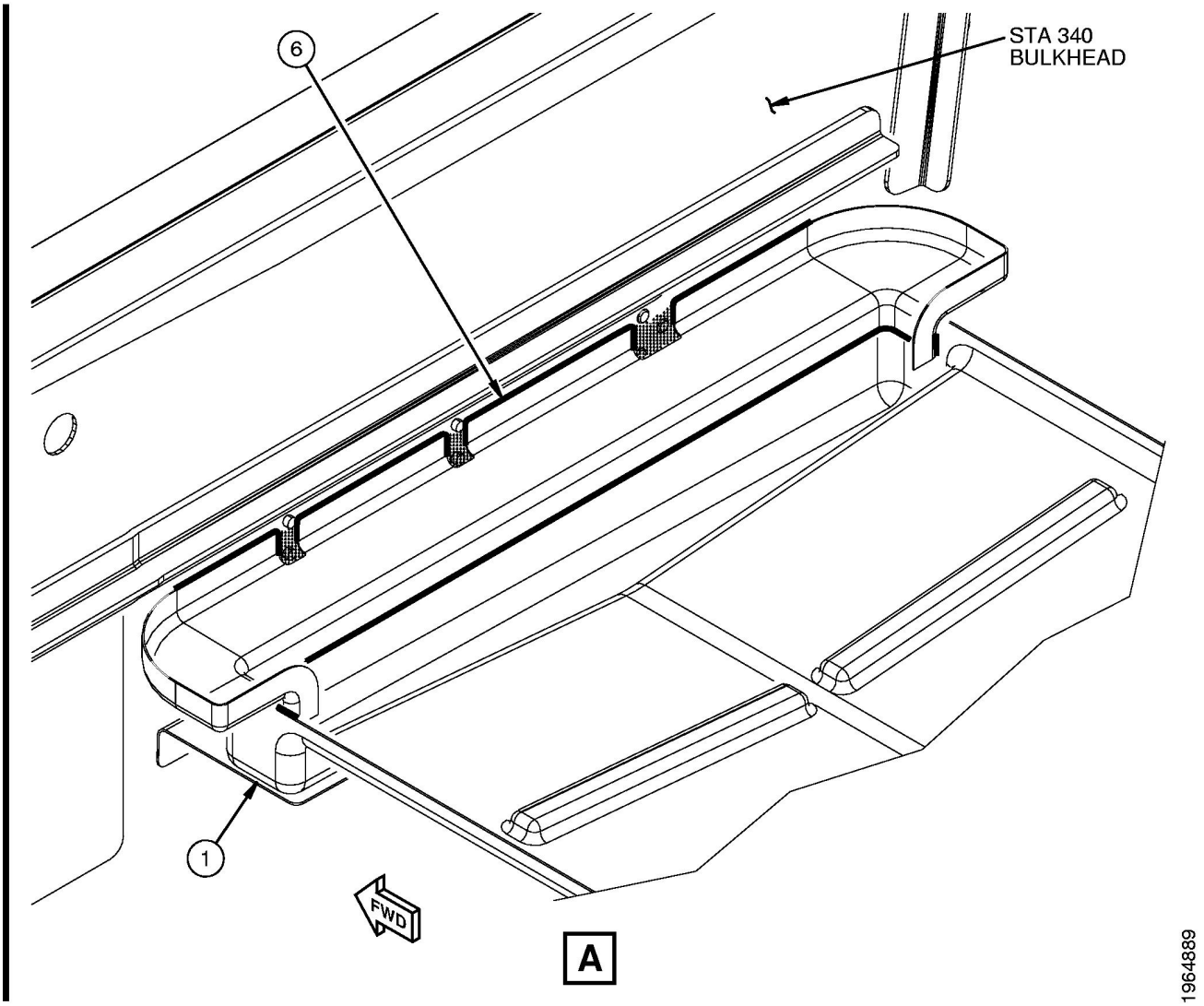
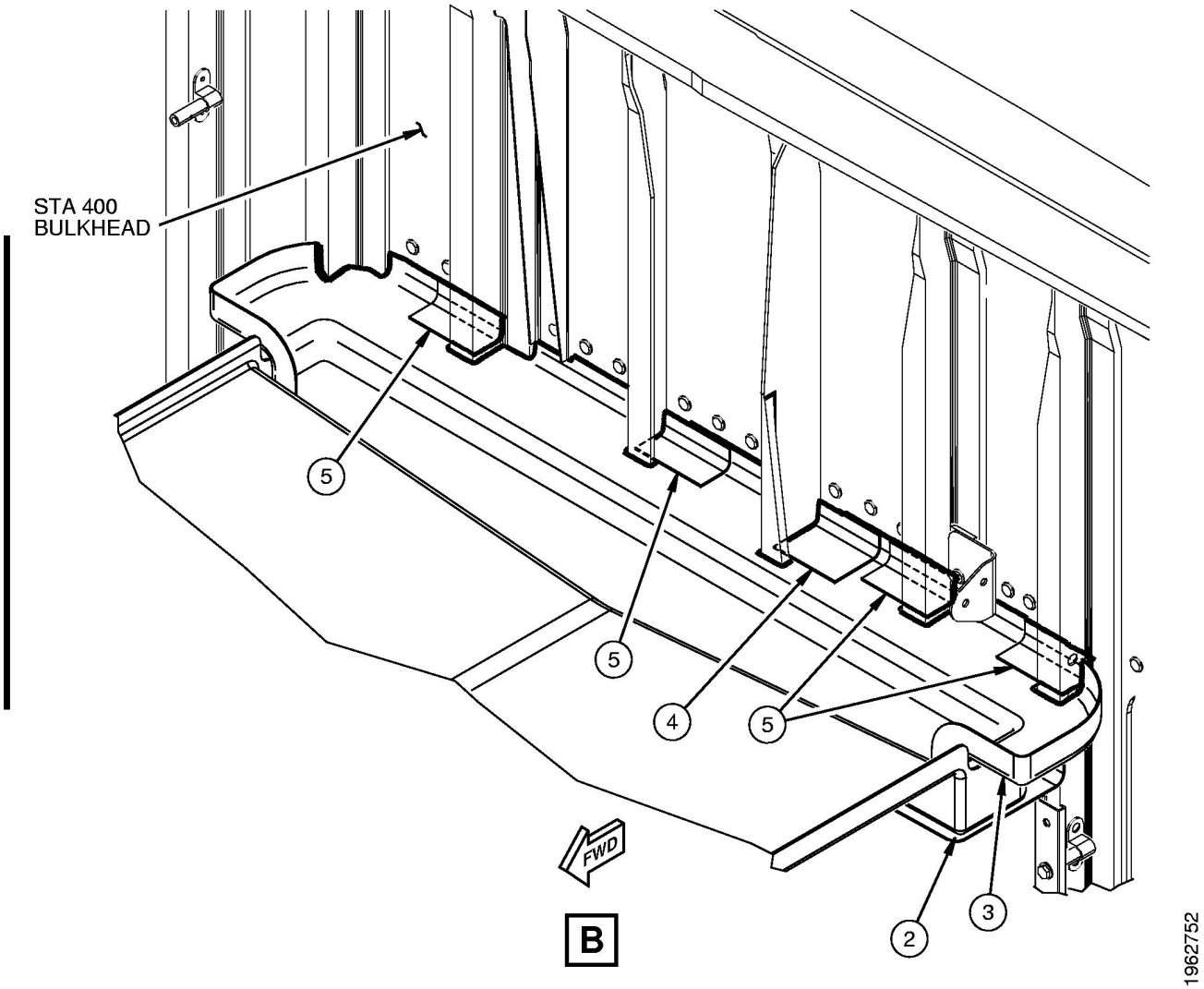


FIGURE 6: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF DRIP SHIELD DEFLECTORS (SHEET 2 OF 4)

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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.

STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Bond	DRIP SHIELD - FWD BRACKET	672U7102-1	-	(c) To the drip shield assy (STA 340)
2	Bond	DRIP SHIELD - AFT BRACKET	672U7102-2	-	(c) To the drip shield assy (STA 400).
3	Install (New)	DRIP SHIELD - DE-FLECTOR	672U7102-6	1	(a) (c)
4	Install (New)	DRIP SHIELD - DE-FLECTOR PLATE	672U7102-13	1	(b) (c)

FIGURE 6: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF DRIP SHIELD DEFLECTORS (SHEET 3 OF 4)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
5	Install (New)	DRIP SHIELD - DE-FLECTOR PLATE	672U7102-12	4	(b) (c)
6	Install (New)	DRIP SHIELD - DE-FLECTOR	672U7102-14	1	(d)

(a) Bond to the inside face of aft edge of drip shield gutter. Bond flanges of the deflector shield to the STA 400 bulkhead using BMS 5-92. Refer to SOPM 20-50-12, Type 70 as an accepted procedure. The Deflector Shield needs to be bonded at least 0.125" below the existing row of hi-locks, located at WL 186.29; this dimension is required to ensure that these fasteners can be inspected.

(b) Bond on top of the deflector shield to bridge gaps inside the vertical stiffeners. Bond deflector plates to STA 400 bulkhead as required using BMS 5-92. Refer to SOPM 20-50-12, Type 70 as an accepted procedure.

(c) Apply Sealant BMS 5-95. Fill all gaps between STA 400 Bulkhead and deflector shield, gaps between deflector shield and deflector plates, gaps between deflector plates and STA 400 Bulkhead, and gaps between deflector shield and drip shield to prevent water leaks. Refer to SOPM 20-15-19 as an accepted procedure.

(d) Apply Sealant BMS 5-95. Fill all gaps between STA 340 Bulkhead and deflector shield. Refer to SOPM 20-15-19 as an accepted procedure.

FIGURE 6: ELECTRONICS EQUIPMENT CENTER - INSTALLATION OF DRIP SHIELD DEFLECTORS (SHEET 4 OF 4)

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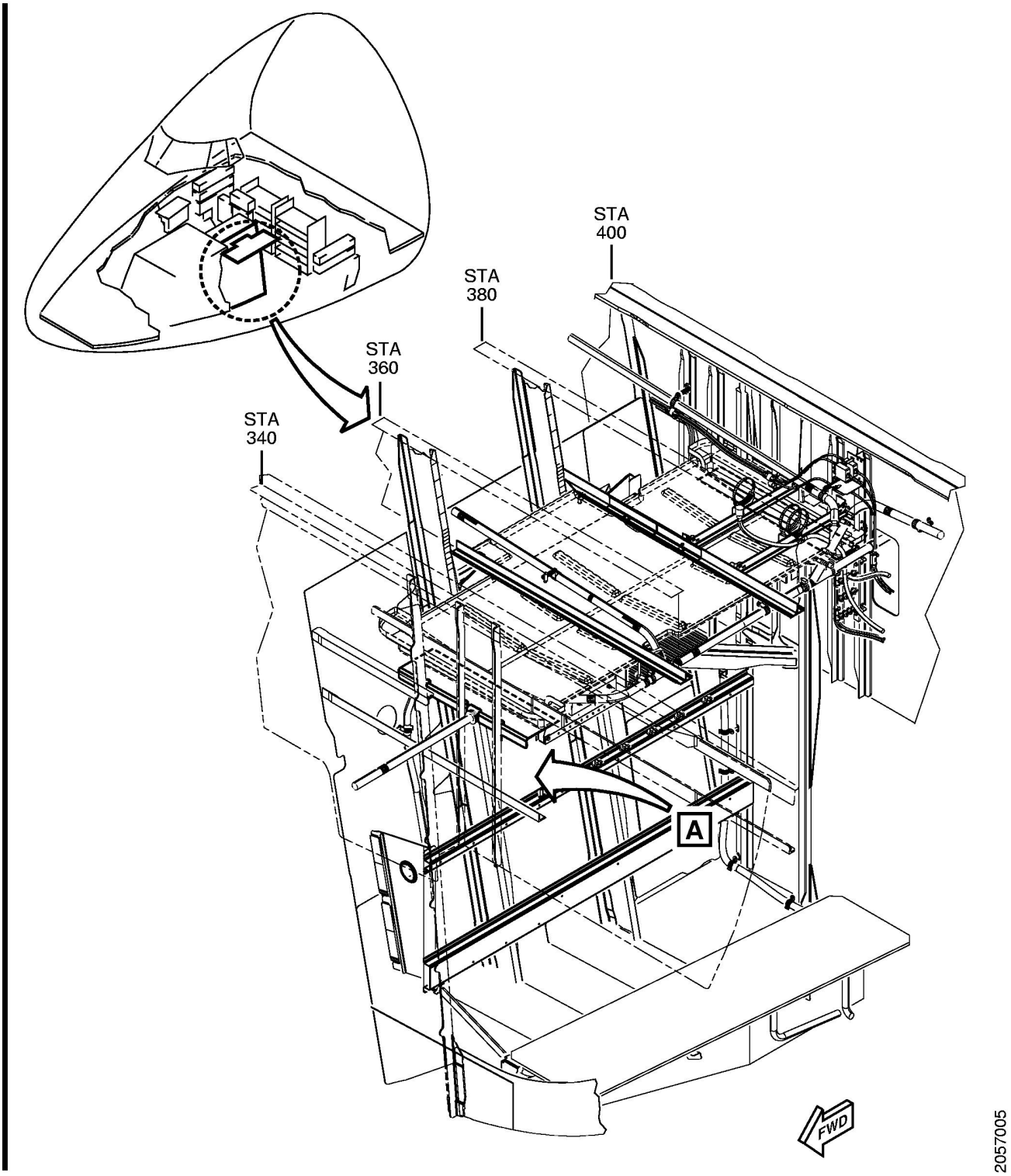
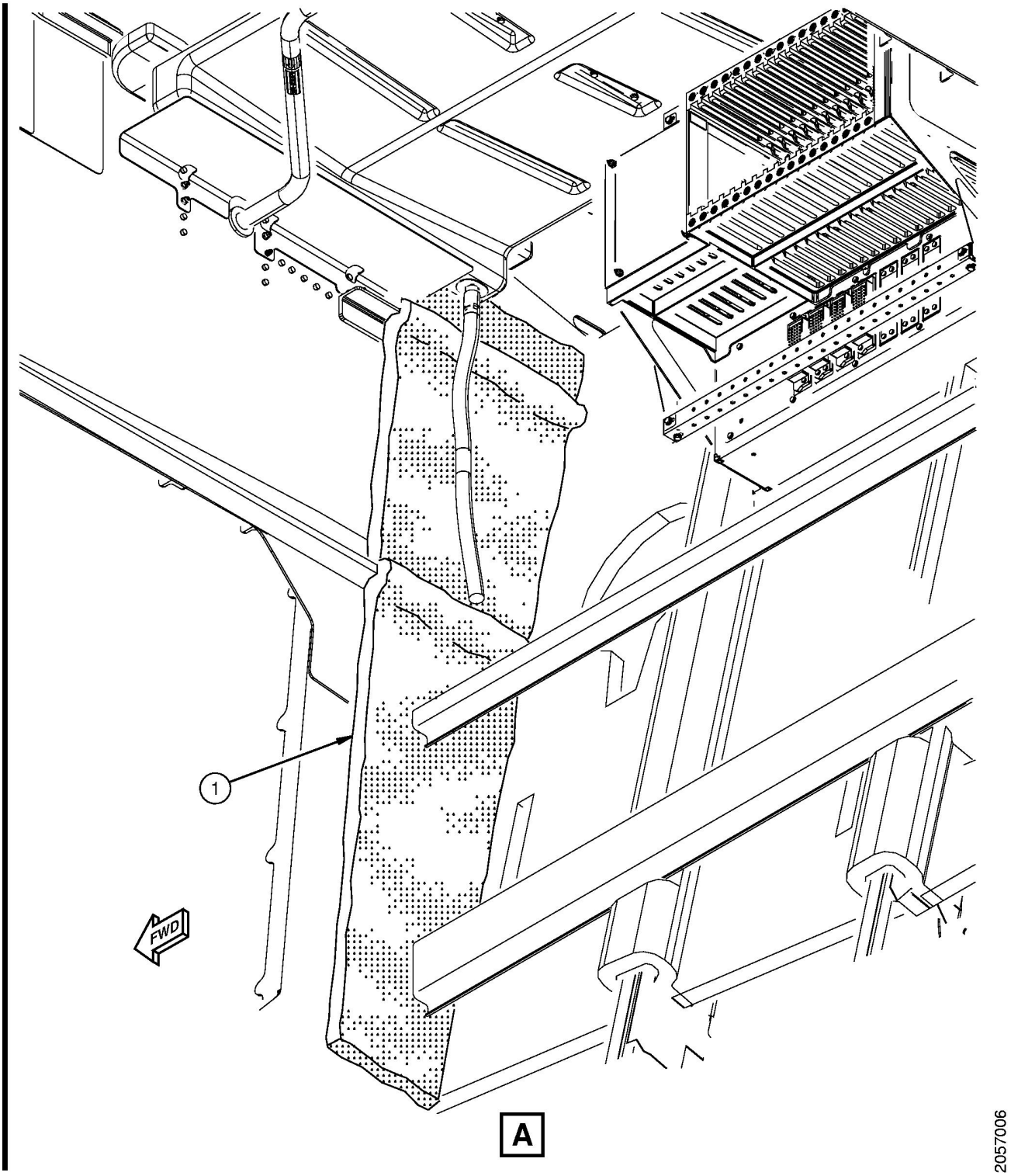


FIGURE 7: INSULATION BLANKET REPLACEMENT
(SHEET 1 OF 3)

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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.

FIGURE 7: INSULATION BLANKET REPLACEMENT
(SHEET 2 OF 3)

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STEP	TASK	NAME	IDENTIFICATION	QTY	MORE DATA
1	Remove	BLANKET ASSY - INSULATION	411U4403-1031	1	Refer to 747-400 AMM 25-52-04 as an accepted procedure
	Install (New)	BLANKET ASSY - INSULATION	411U4403-1001	1	Refer to 747-400 AMM 25-52-04 as an accepted procedure

FIGURE 7: INSULATION BLANKET REPLACEMENT
(SHEET 3 OF 3)

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