

SUBJECT:

Required maintenance for the Installation of LH and / or RH Cargo Pods.

APPLICABILITY :

Aircraft with the subject modification embodied in accordance with TCCA STC No. SH97-15 or any relevant foreign approvals.

The information and data contained in this document supersede or supplement that contained in the basic AS 350 Maintenance documentation in those areas listed herein. For procedures not contained in this document refer to the Approved Maintenance Manual or any other accepted supplemental Maintenance Manual Supplemental. This ICA is to be used in conjunction with the Approved AS 350 Maintenance Manual for the aircraft with the subject design change incorporated.

The information and data contained in this document supersede or supplement that contained in the basic AS 350 Maintenance documentation in those areas listed herein. For procedures not contained in this document refer to the Approved Maintenance Manual or any other Supplemental Instructions for Continued Airworthiness. The Supplemental ICA is to be used in conjunction with the Approved AS 350 Maintenance Manual for the aircraft with the subject design change incorporated.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR Secs. 43.16 and 91.403 unless an alternative program has been FAA approved.

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RECORD OF REVISIONS

Rev.	Pages with this Issue Number	Description and Reason (& page nos. that have changes)	Prepared (name and date)	Checked (name and date)	App'd/Acc'd (Civil A/W Authority) (name and date)	Released (name and date)
0	1 through 30	Original Issue	D. Kerr 14 December 2015	C. Timmins 14 December 2015	N/A	P. Sharpe 26 May 2016
1	1 through 29	Minor changes made to Figures 2, 3, 4, 5, 7, 8 & 9. Figure added to show Data Plate relocation. Minor changes to Inspection Schedule. Functional test has been revised in Section 8. No revision bars.	D. Kerr 31 January 2017	D. Kapuscinsky 31 January 2017	TCCA G. David 1 February 2017	P. Sharpe 3 February 2017
2	1 through 47	Introduction of sliding door compatible with cargo pods. Pictorial changes to door strut attachment bracket. Revised Airworthiness statement in Section 2. Text on placard corrected. Addition of Export Control statement. (Pages 5 to 10, 12 to 15, 16 to 41, 44 to 47)	D. Kerr 29 Nov. 2022	D. Kapuscinsky 29 Nov. 2022	TCCA S. Camer 12 Dec. 2022	L. Meuret 13 Dec. 2022
3	1 through 49	Minor template revisions. Revised FAA Airworthiness statement. Increased Maintenance Inspection Schedule for B3 from 600 FH to 750 FH. Addition of shim at door bracket location. Revised Weight and Balance chart for B2/B3 Sliding Door compatibility option. (Pages 12, 17, 20, 21, 26 to 31, 38, 41, 45 & 46)	See page 1.	See page 1.	See page 1.	See page 1.

NOTE: Revisions to this document will be distributed to operators of this equipment by the STC holder.
 NOTE: Revised portions of affected pages are identified by a vertical black line in the margin adjacent to the change.
 NOTE: Minor changes are released in accordance with TCCA-ACCEPTED CAR 521.154 procedures (ref. DAPM-E-0001).

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Export Control Classification Marking: 9E991

1. GENERAL

- A. The subject Installation of LH and / or RH Cargo Pods comprises one or two pods which provide an increase in cargo bay capacity. The forward opening door allows for easy cargo handling. The Cargo Pods have a non-slip upper surface and maintenance step. Refer to Figure 1 for General Layout.

Refer to MDL-97-004 for a list of cargo pod installation drawings. For the AS 350 B3, the structural provisions for the crashworthy fuel tank (AMS 07-4606) affects the cargo pod installation. Installation 350-201814 (LH) and/or 350-201824 (RH) are compatible with PRE and POST AMS 07-4606. Installation 350-200814 (LH), part of an earlier design AS 350 (LH / RH), is not compatible with POST AMS 07-4606 for the left side installation only. The table below summarizes this compatibility.

	350- 201814 and / or 350-201824		350- 200814 and / or 350- 200824	
	(LH) CURRENT DESIGN	(RH) *	(LH) EARLIER DESIGN	(RH)
AS 350 B	X	X	X	X
AS 350 B1	X	X	X	X
AS 350 B2 or B3 (PRE AMS 07 4606)	X	X	X	X
AS 350 B2 or B3 (POST AMS 07 4606)	X	X		X
AS 350 BA	X	X	X	X
AS 350 D	X	X	X	X

* For instructions on the initial installation, refer to IP-AHCA-141. (For P/N's 350-201814 and/or 350-201824 only)

This revision introduces an option allowing the cargo pod to be installed on AS 350 B2 and B3 aircraft with sliding doors without necessitating a change to the standard cabin door configuration. For AS 350 B2/B3 with P/N's 350-205414 LH and 350-205424 RH with sliding door, the re industrialization of cabin doors (AMS 07-4267) and cabin door seals improvement (AMS 07-4732) must be incorporated when used in combination with the sliding door.

- B. These Instructions for Continued Airworthiness are applicable to aircraft with the subject modification embodied.

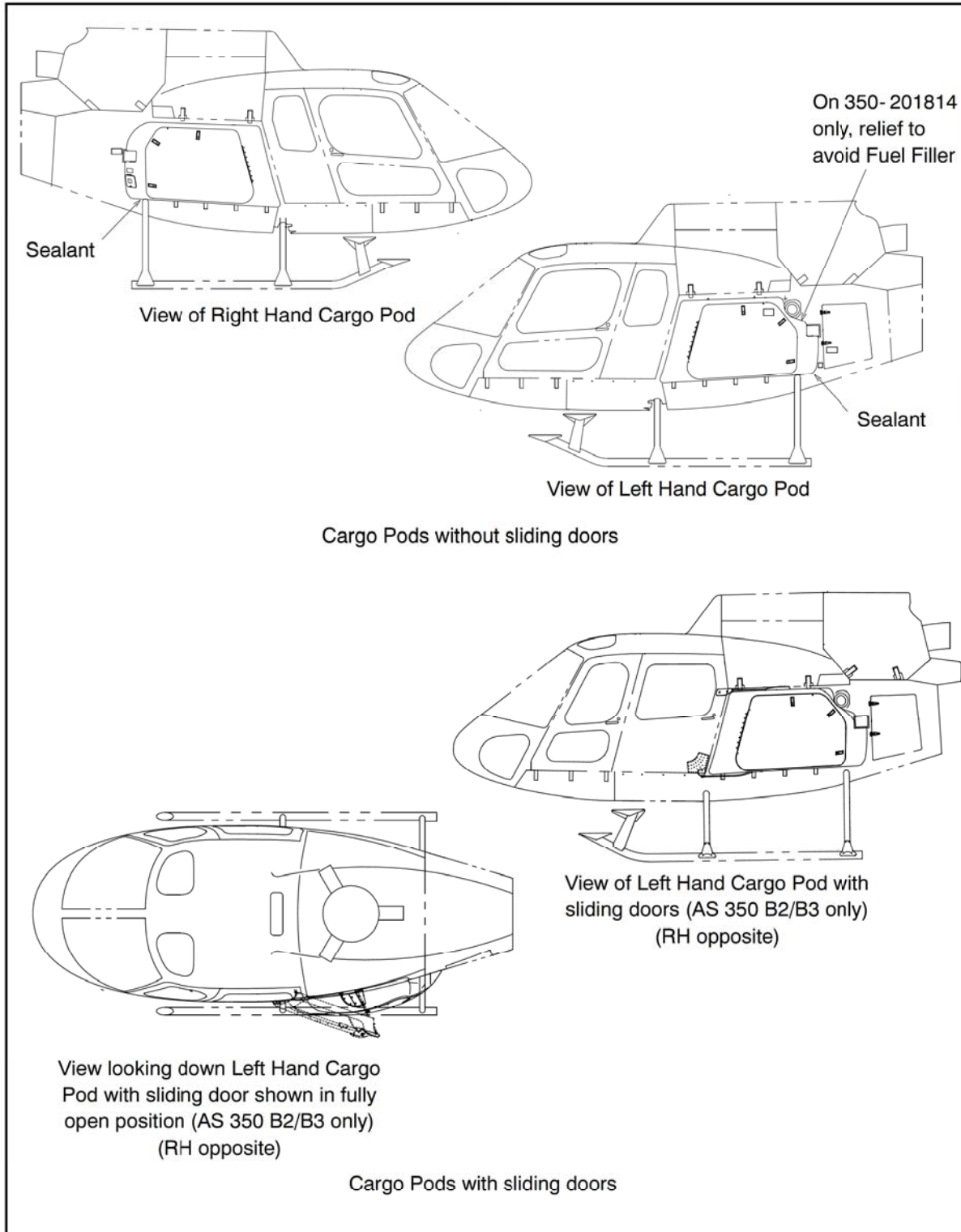


Figure 1 General Layout

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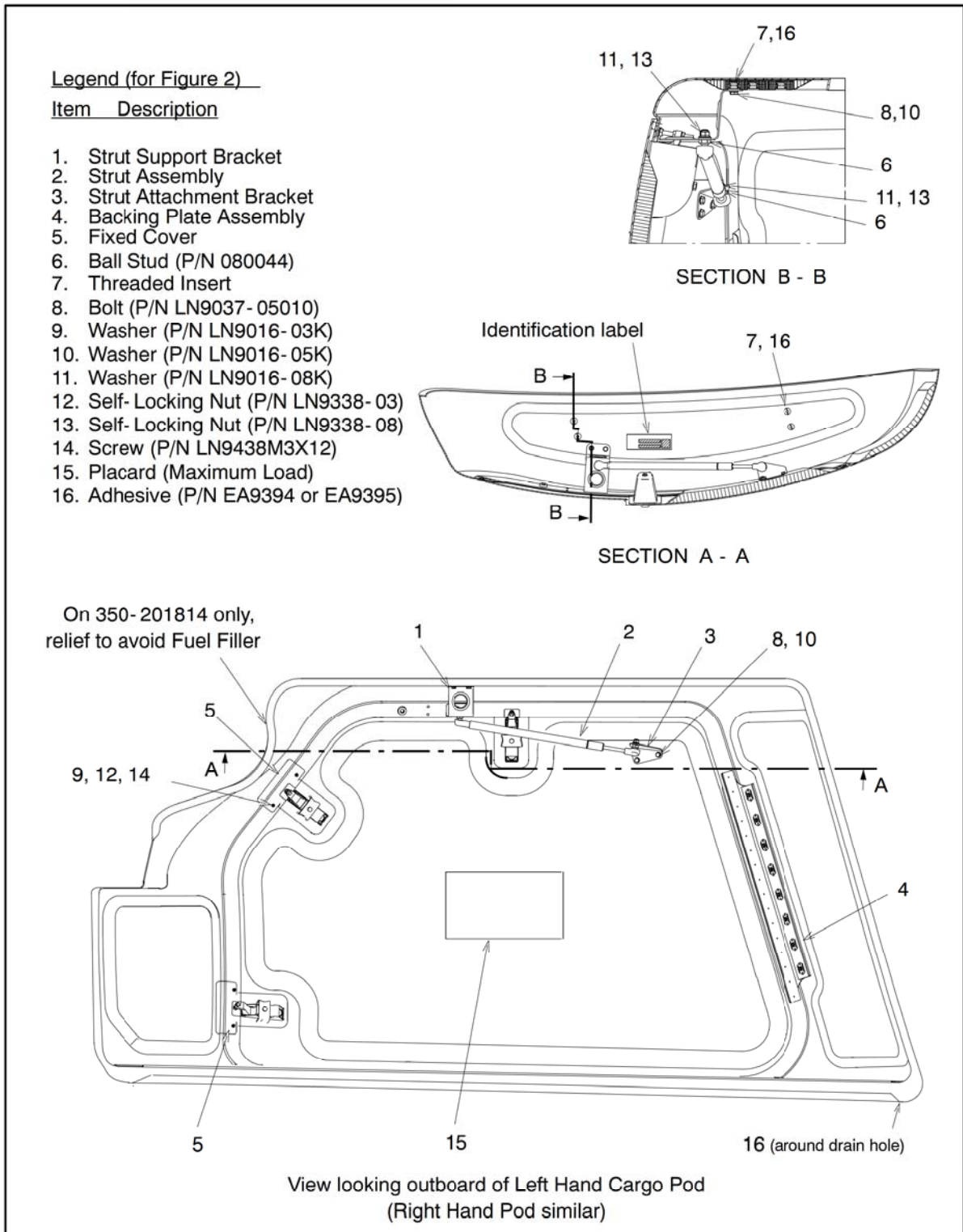


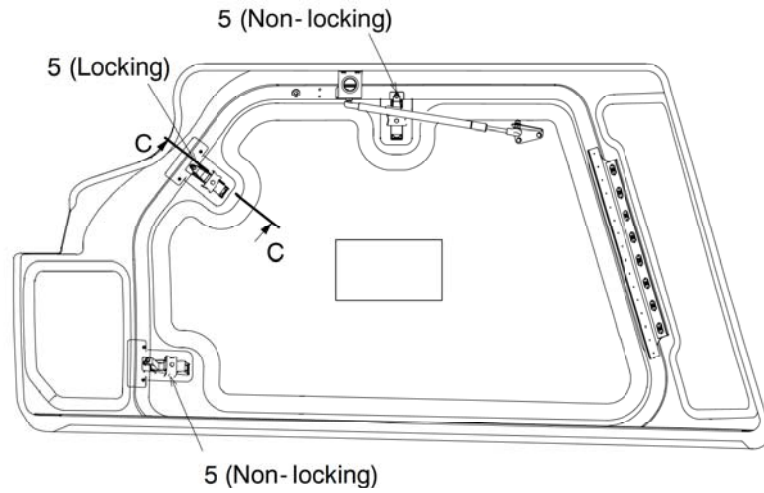
Figure 2 Left Hand Cargo Pod

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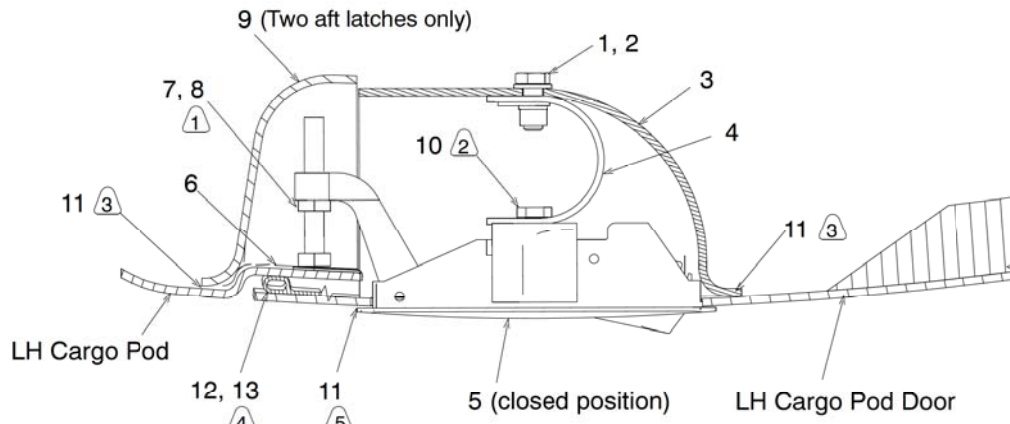
Legend (for Figure 3)

Item Description

1. Bolt (P/N LN9037-05012)
2. Washer (P/N LN9016-05K)
3. Mobile Cover
4. Clamp Assembly
5. Latch Assembly
(non-locking or locking)
6. Striker Plate
7. Latch Screw
(part of latch assembly)
8. Jam Nut
(part of latch assembly)
9. Fixed Cover
10. Thread Locking Compound
(P/N Loctite 242)
11. Sealant (P/N PR1422-B2)
12. P-Seal (P/N 1.952N403)
13. Adhesive (P/N 3M 847)



View looking outboard of LH Cargo Pod Door



SECTION C - C

Left Hand Door Latch Assembly shown
(typical 3 places)

Cargo Pod Door latch shown in closed position
(Right Hand door latch assembly same)

- ⑤ Fillet seal around edges of latch assembly (5) using sealant (11).
- ④ Bond P-Seal (12) to door using adhesive (13).
- ③ Apply sealant (11) to faying surfaces.
- ② Apply thread locking compound (10) during installation.
- ① Adjust latch screw (7) and jam nut (8) to ensure even seal contact around perimeter of door and cargo pod flange.

NOTES:

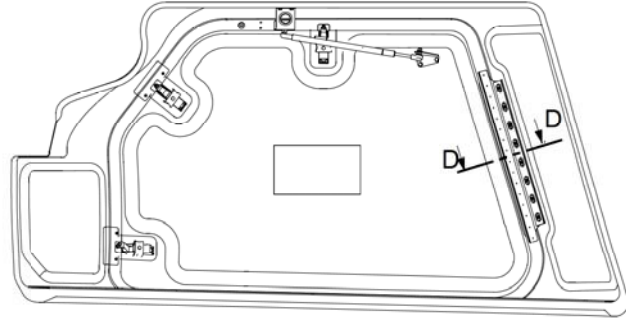
Figure 3 Door Latch Assembly

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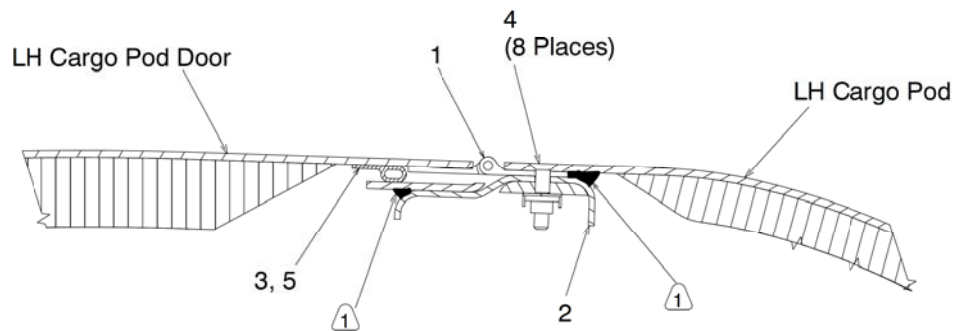
Legend (for Figure 4)

Item Description

1. Hinge
2. Backing Plate Assembly
3. P-Seal (P/N 1.952N403)
4. Screw (P/N LN9438M4X18)
5. Adhesive (P/N 3M 847)
6. Sealant (P/N PR 1422-B2)



View looking outboard of LH Cargo Pod Door



SECTION D - D
Left Hand Cargo Pod Door shown,
(Right Hand Cargo Pod opposite)

⚠ Fillet seal around backing plate assembly (2) with sealant (6).

NOTES:

Figure 4 Door Hinge Assembly

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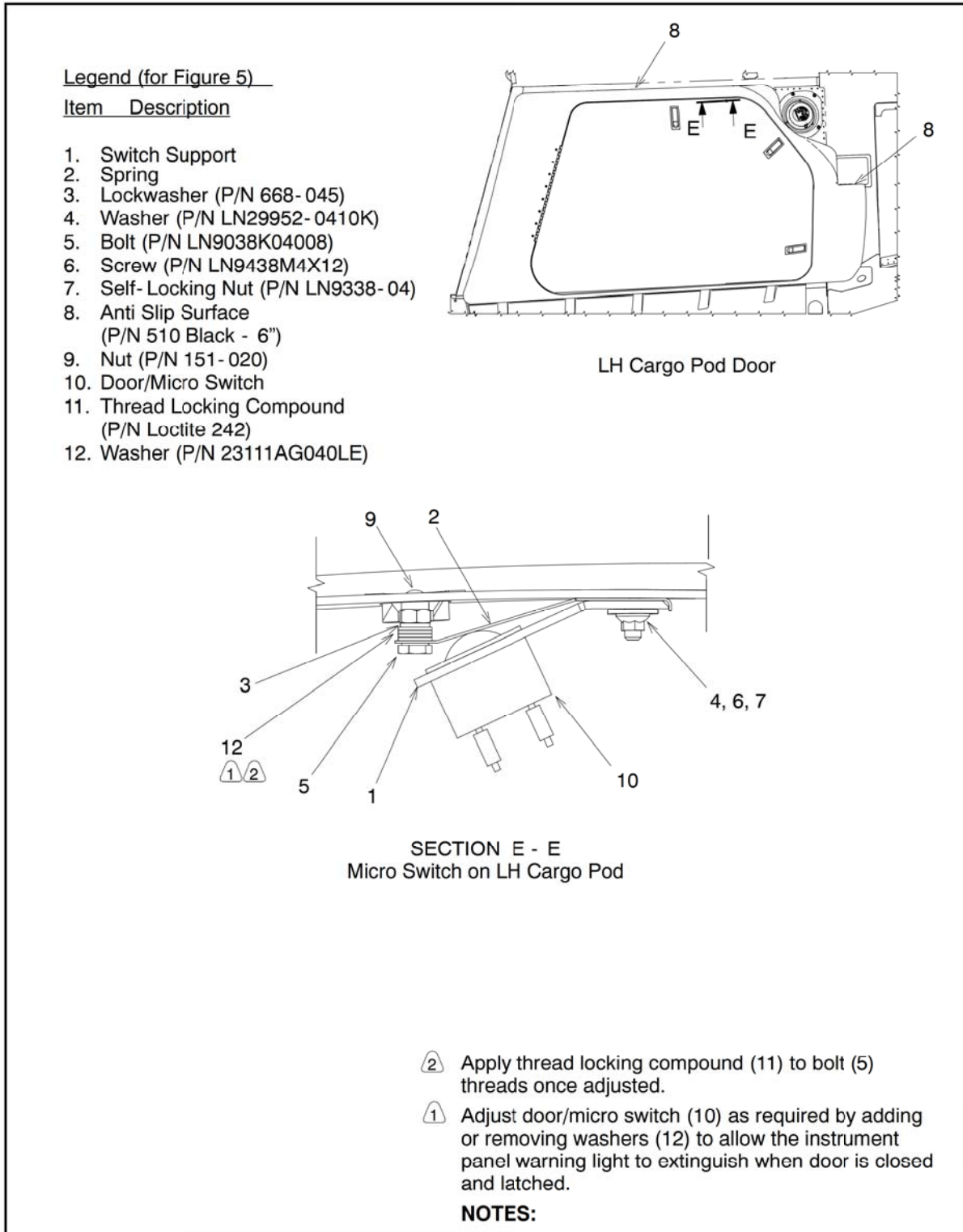


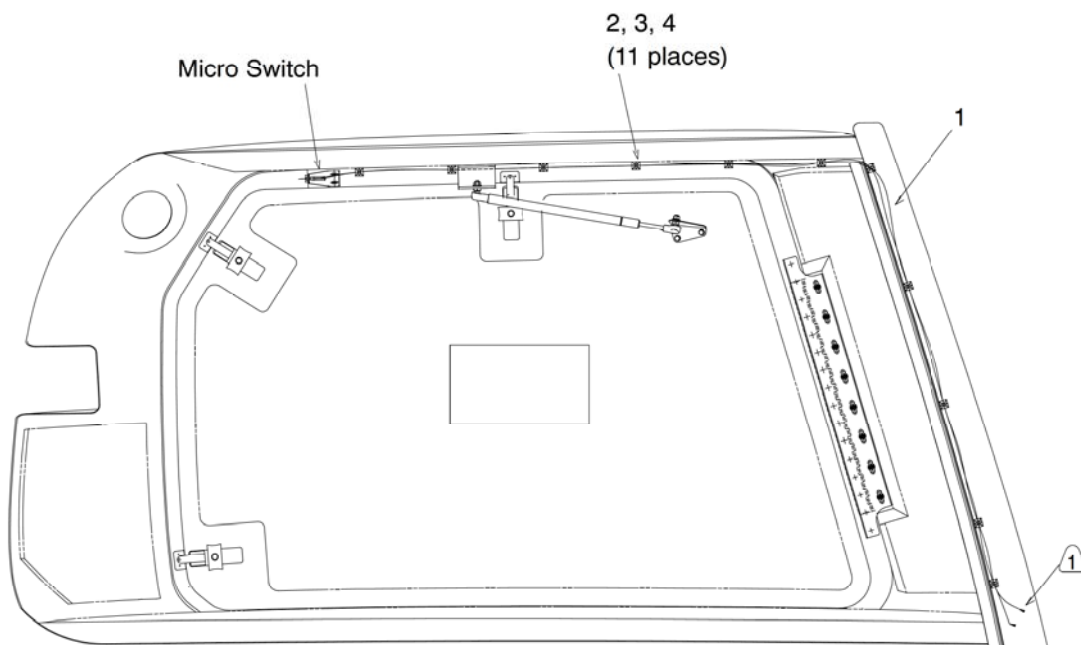
Figure 5 Door Switch Assembly

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Legend (for Figure 6)

Item Description

1. Micro switch wire Routing LH/RH
2. Tywrap Base
3. Tywrap
4. Adhesive (P/N EC 1838B/A)



Detail of LH Cargo Pod looking outboard (RH Cargo Pod similar)
Inner Pod Flange and other existing aircraft members
removed for clarity

 Connect to existing micro switch wires.

NOTES:

Figure 6 Micro Switch Wire Routing

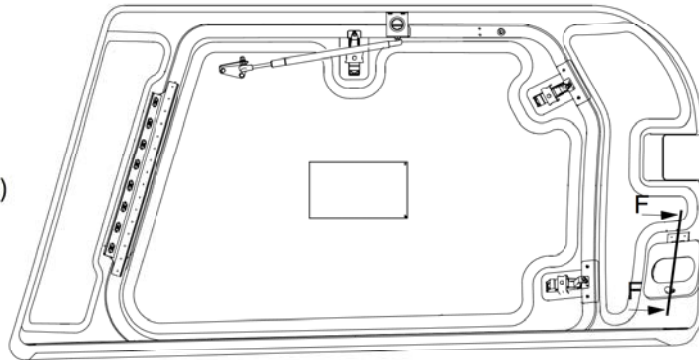
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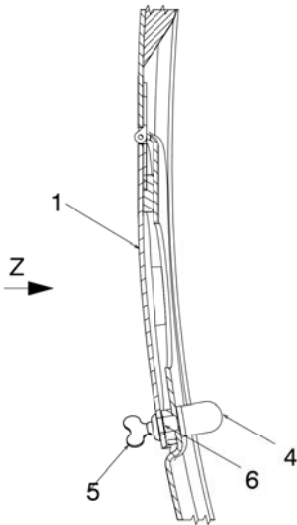
Legend (for Figure 7)

Item Description

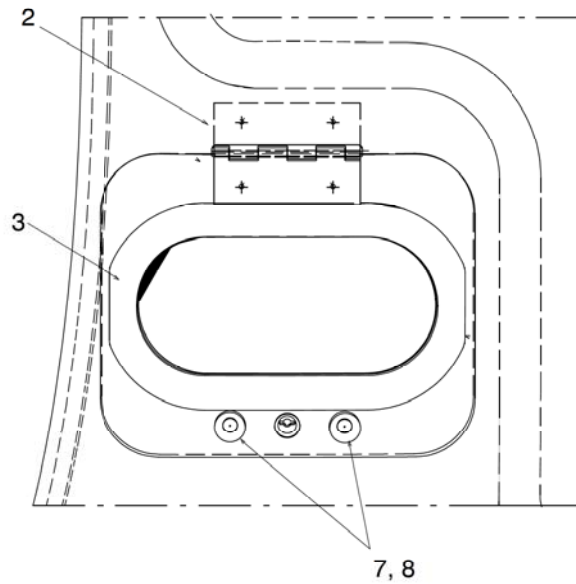
1. EPU Door Assembly
2. Hinge
3. Seal (P/N SCCH250062P)
4. Camloc Receptacle
5. Camloc Stud
6. Retaining Ring
7. Rubber Bumper (P/N 315-032)
8. Sealant (P/N PR1422-B2)



View looking outboard of Right Hand Cargo Pod



SECTION F - F



VIEW Z

EPU Door Assembly door cut-away

Figure 7 RH Cargo Pod EPU Door

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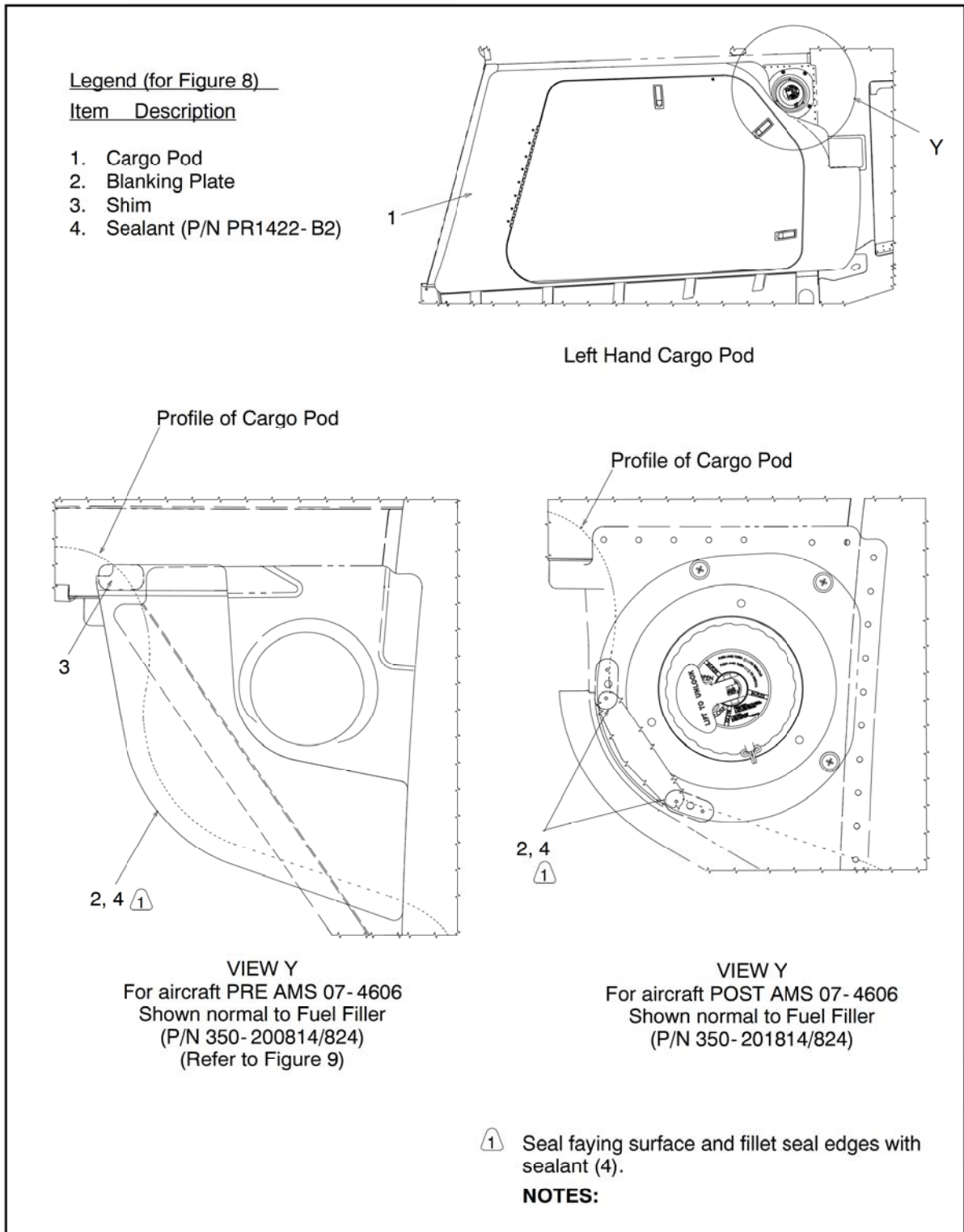


Figure 8 LH Cargo Pod Fuel Filler

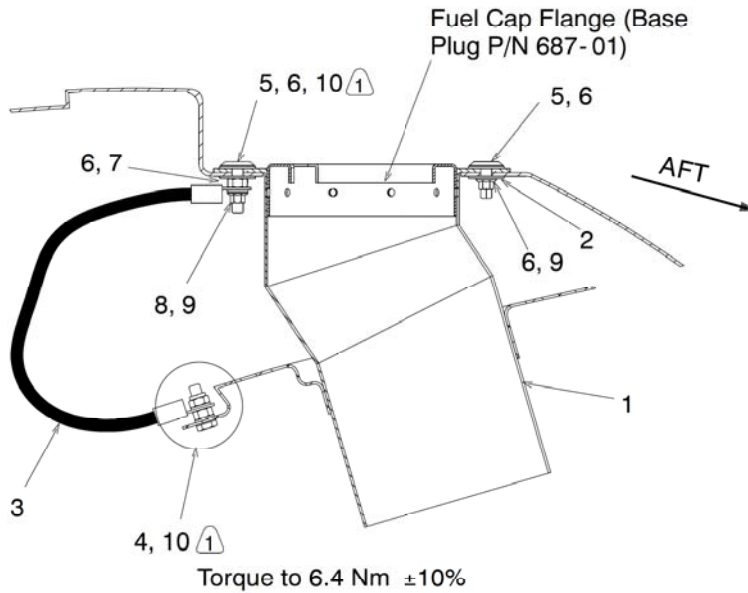
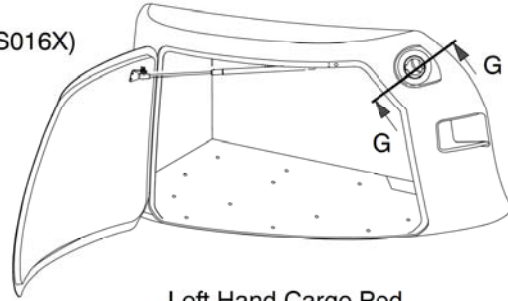
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Legend (for Figure 9)

Item Description

1. Fuel Filler Adapter Assembly
2. Fuel Filler backing Plate
3. Bonding Jumper
4. Ground Stud Installation
5. Screw (P/N A0164TK050S020X / A0164TK050S016X)
6. Washer (P/N LN29952- 0510K)
7. Nut (P/N LN9343- 05)
8. Spring Washer (P/N DIN 137B5B3C)
9. Self- Locking Nut (P/N LN9338- 05)
10. Protective Coating (P/N Celomer 4125/6407)



SECTION G - G
Fuel Filler shown on Left Hand Cargo Pod
For aircraft PRE AMS 07- 4606
(P/N 350- 200814/824)
(Refer to Figure 8)

⚠ Clean contact area of all paint and primer and apply protective sealant (10).

NOTES:

Figure 9 Fuel Filler (P/N 350-200814) - PRE AMS 07-4606

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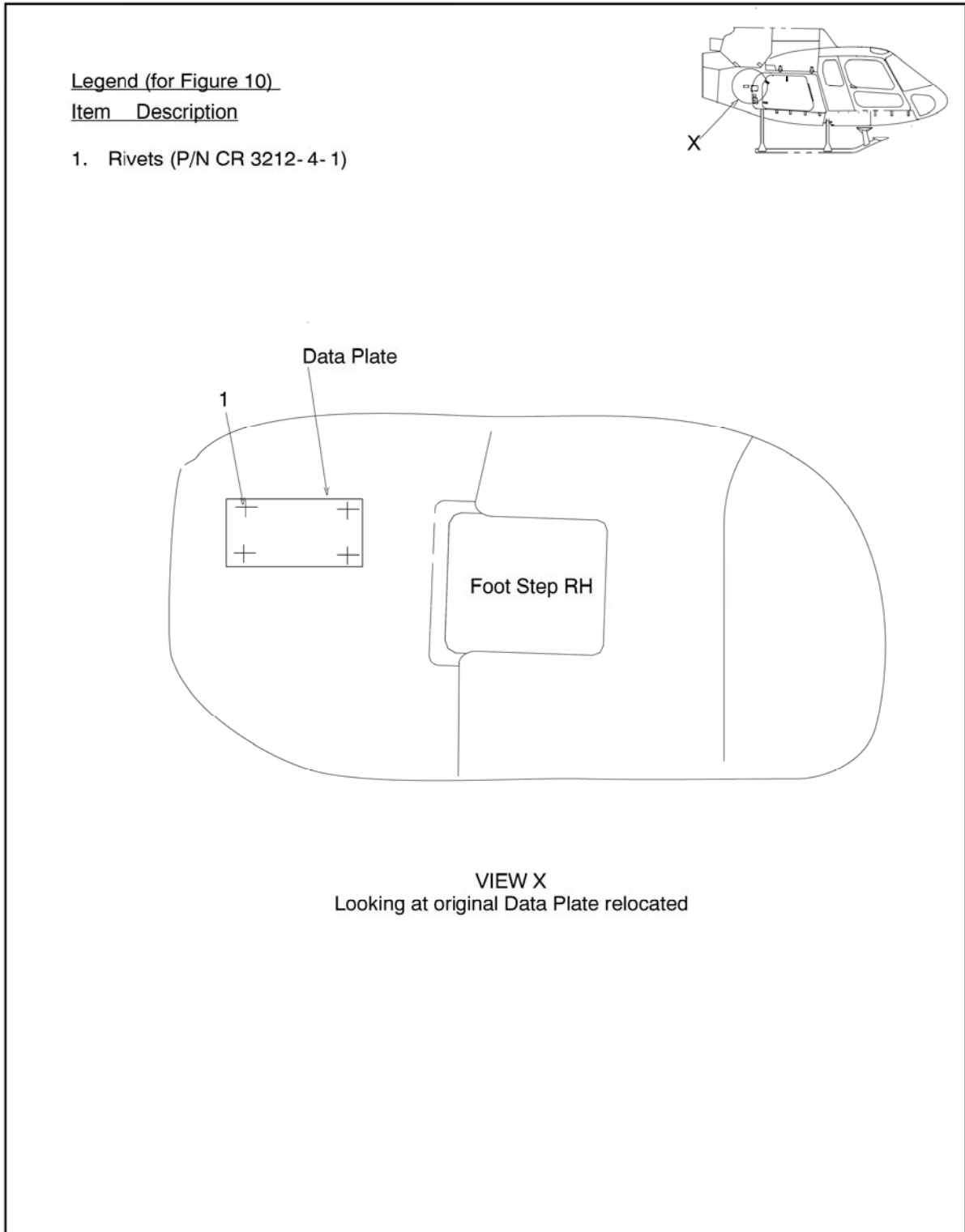


Figure 10 Data Plate Relocation

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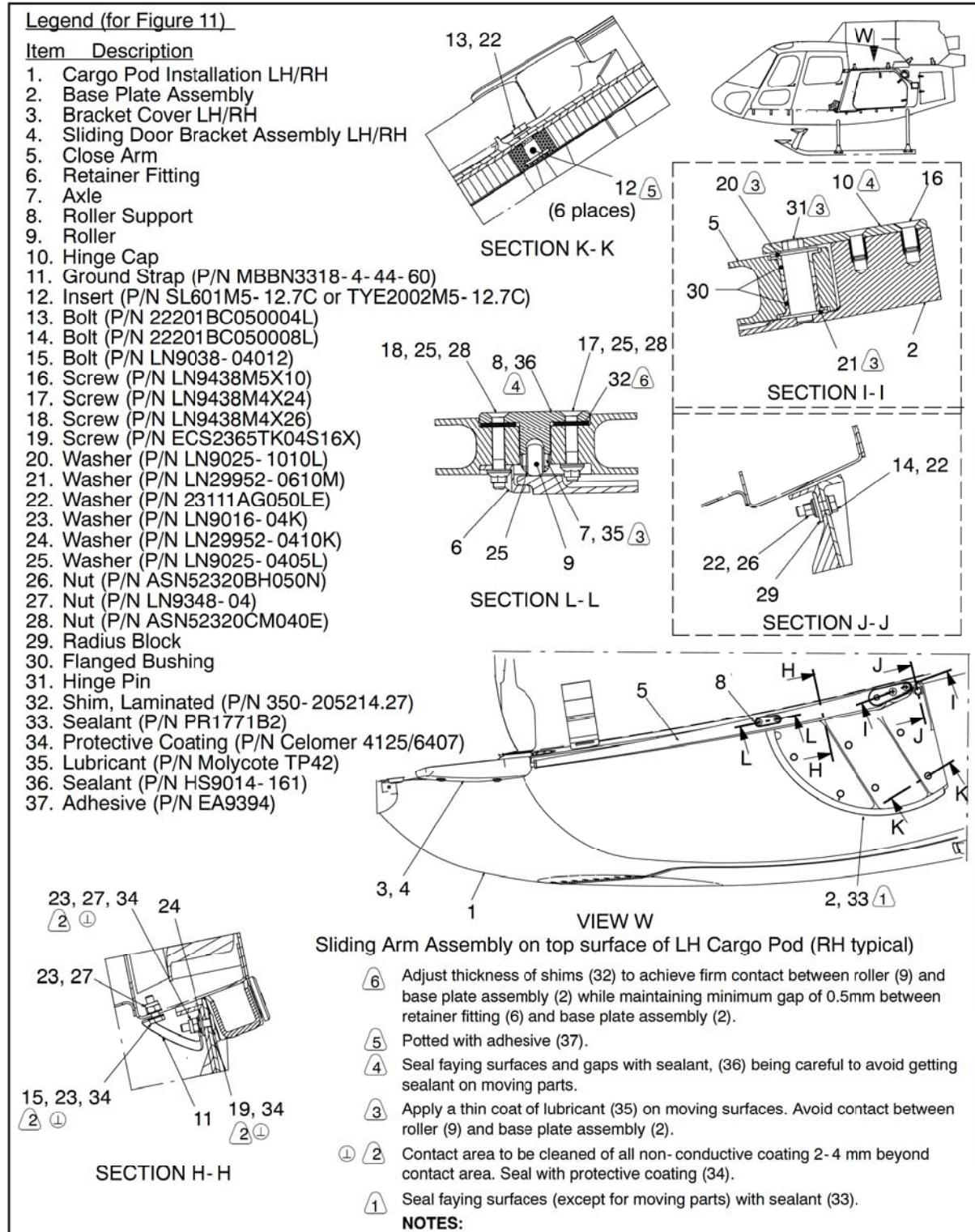


Figure 11 Sliding Door Installation - Sliding Door Upper Arm Assembly

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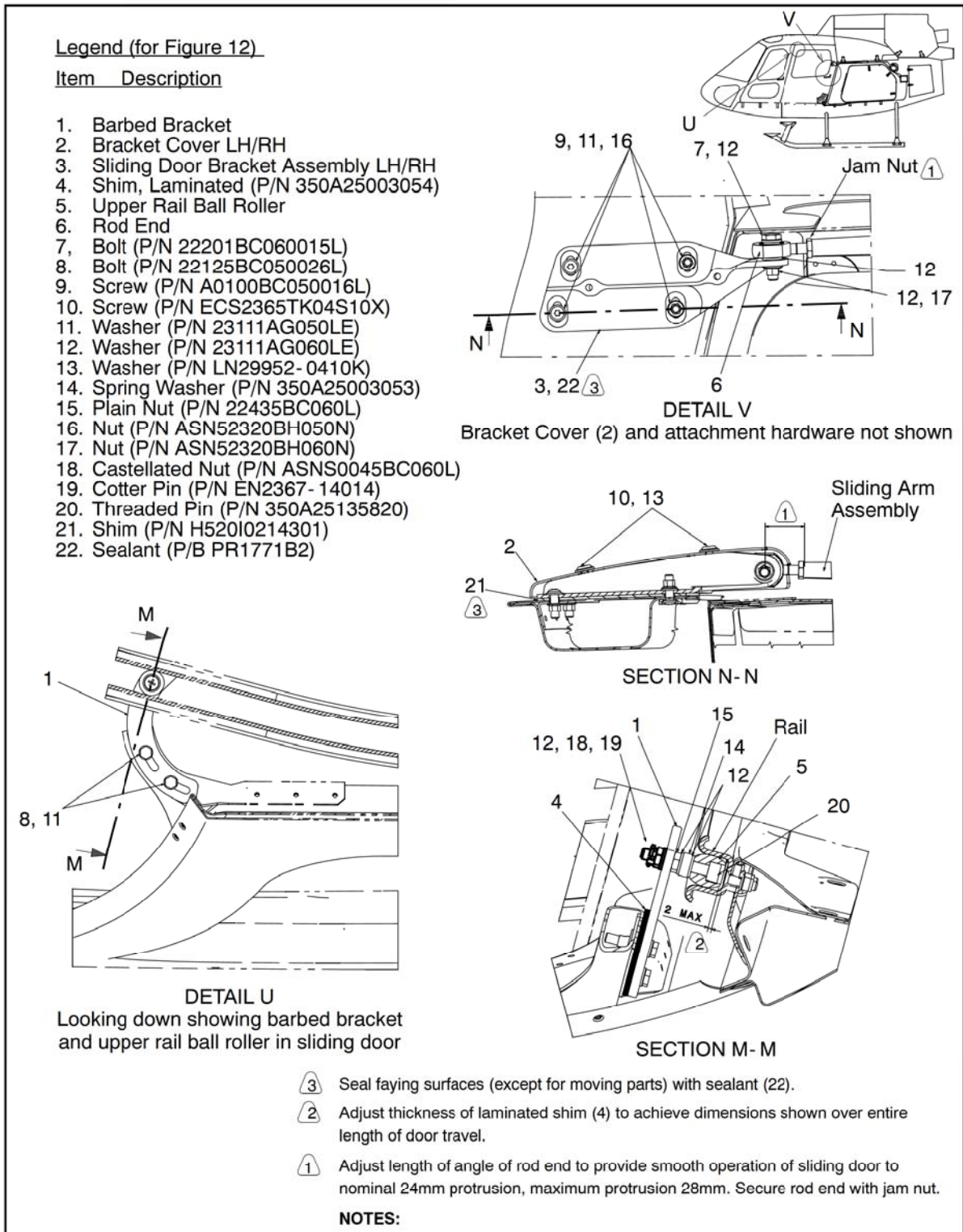


Figure 12 Sliding Door Installation - Sliding Door Upper Brackets

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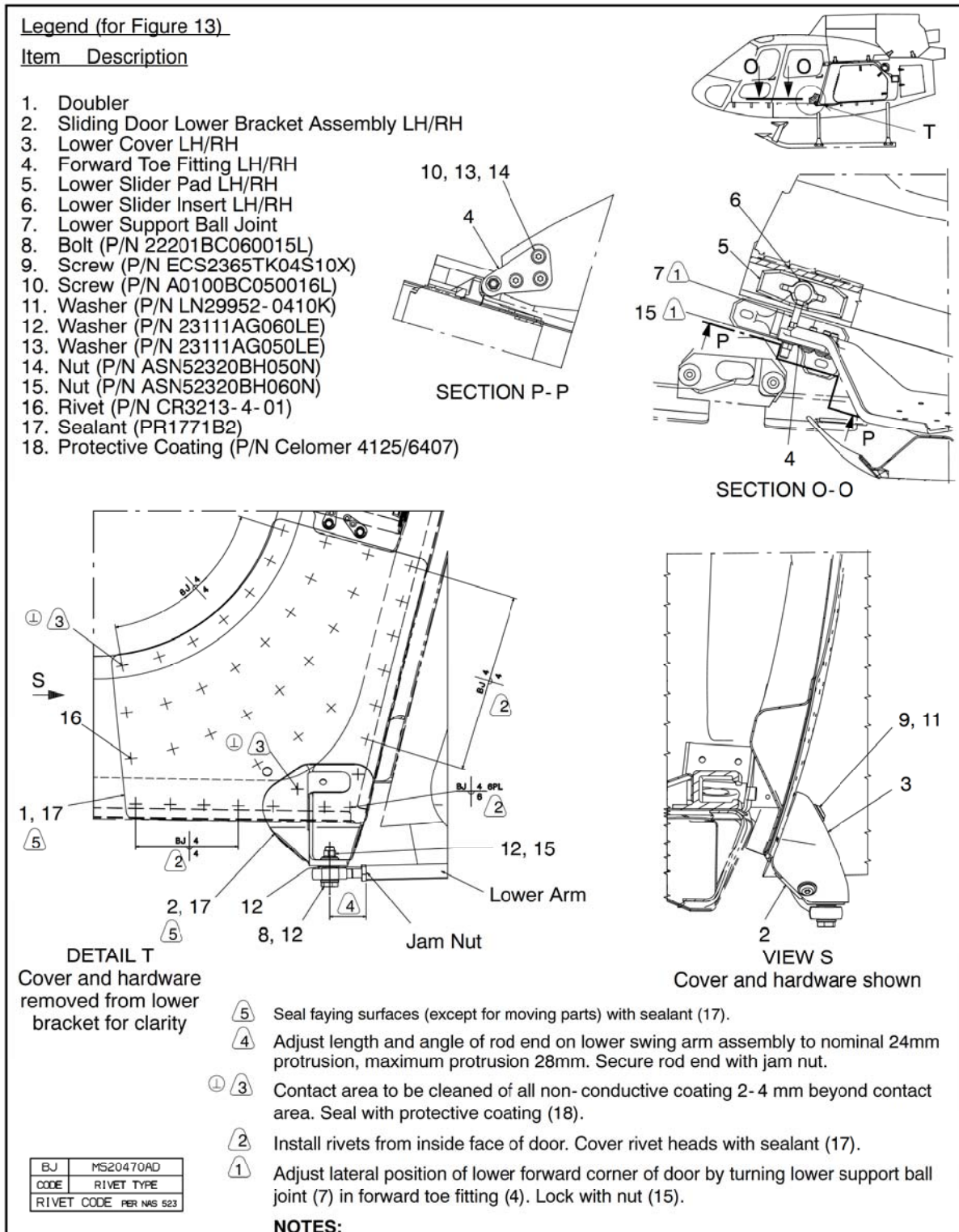


Figure 13 Sliding Door Installation - Sliding Door Lower Brackets

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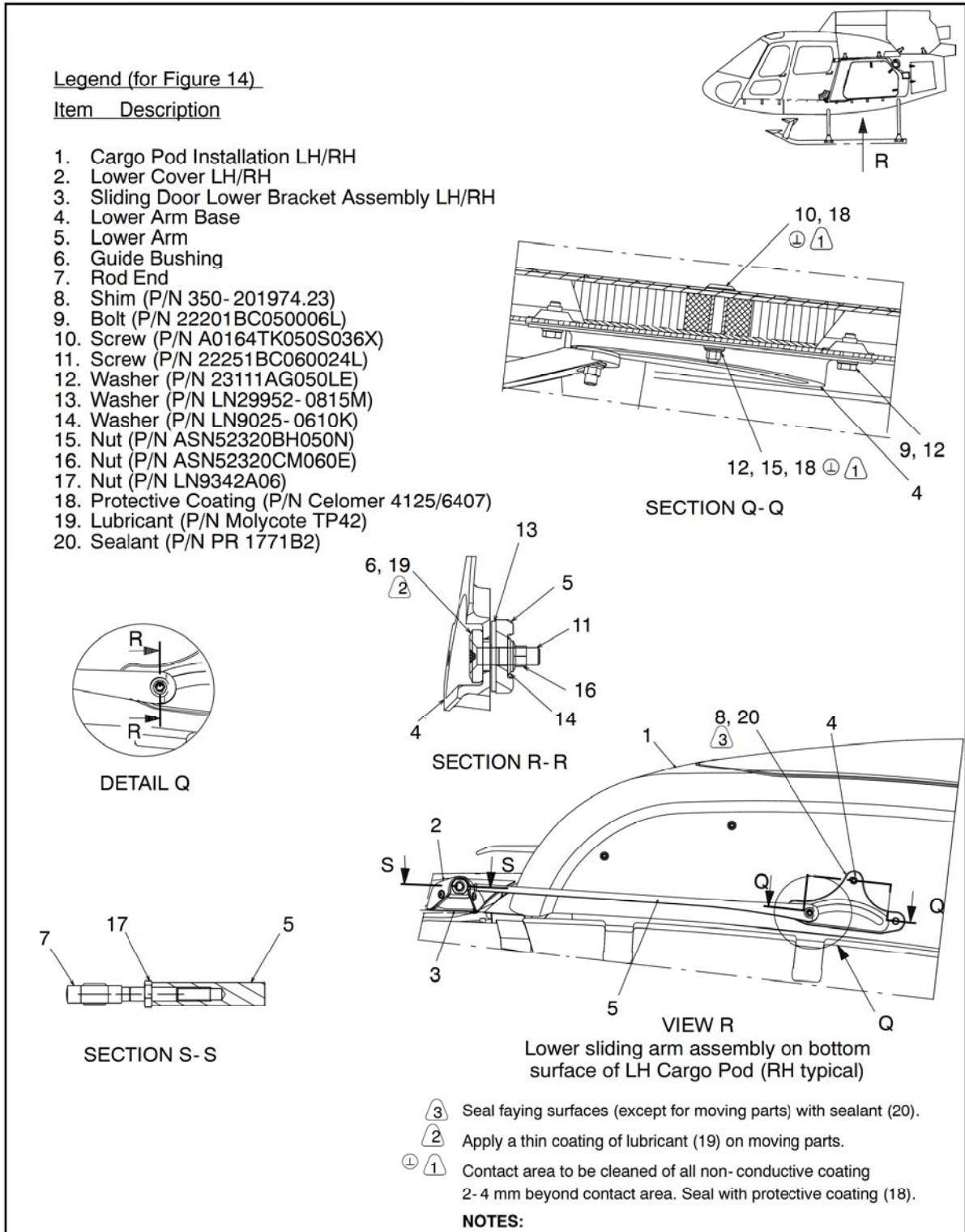


Figure 14 Sliding Door Installation - Sliding Door Lower Arm Assembly

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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AMM	Aircraft Maintenance Manual
AMS 07- 4267	Avis de Modification Series 07- 4267
AMS 07- 4732	Avis de Modification Series 07- 4732
IP- AHCA- 141	Installation Procedure, Cargo Pods Installation
MET	Maintenance Manual
MOD OP 4605	Modification Optional 4605
MTC	Standard Practices Manual
PRE/POST AMS 07- 4606	PRE/POST Avis de Modification Series 07- 4606

D. ABBREVIATIONS & DEFINITIONS

ABBREVIATION	DEFINITION
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
A/W	Airworthiness
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
DC	Direct Current
EASA	European Aviation Safety Agency
EPU	External Power Unit
FAA	Federal Aviation Authority
LH	Left Hand
MOD	Modification
No.	Number
OEM	Original Equipment Manufacturer
P/N	Part Number
RH	Right Hand
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation
WD	Wiring Diagram

E. UNITS OF MEASUREMENT

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
D	Days
FH	Flight Hours
in	inch
kg	kilogram
lb	pound
m	meter
mm	millimeters
M	Months
Nm	Newton meter

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2. AIRWORTHINESS LIMITATIONS

Canadian Approval

The Airworthiness Limitations section is approved by the Minister of Transport and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

FAA Approval

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

EASA Approval

The Airworthiness Limitations section is approved and variations must also be approved.

No Airworthiness Limitations associated with this installation.

Transport Canada - Approved

3. CONTROL AND OPERATION

Control and operation of the aircraft remains unchanged.

4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

Refer to Section 8 if removing or replacing any parts.

NOTE: Use torque per MTC, Chapter 20-02-05-404, unless otherwise specified.

4.1. INSPECTION SCHEDULE

4.1.1. Every 150 FH or 12 M (Margins: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	<ul style="list-style-type: none"> - Check operation of the micro switch, with power ON: <ul style="list-style-type: none"> a. Check when all cargo pod doors and/or cargo compartment doors are closed and latched that "DOOR" annunciator light is OFF. b. Open each cargo pod door and/or cargo compartment door separately and ensure "DOOR" annunciator light is ON. 	<ul style="list-style-type: none"> a. If lamp remains ON, refer to Chapter 6, troubleshooting. b. If lamp fails to come ON, refer to Chapter 6, troubleshooting.
B	<ul style="list-style-type: none"> - Visually inspect LH and RH Cargo Pods Installation shown in Figure 1 for: <ul style="list-style-type: none"> a. general condition 	<ul style="list-style-type: none"> a. If cracking, delamination or debonding is found contact AHCA.
C	<ul style="list-style-type: none"> - Visually inspect sealant between left hand and right hand cargo pods and airframe shown in Figure 1 for: <ul style="list-style-type: none"> a. deterioration/damage 	<ul style="list-style-type: none"> a. Clean area and reapply sealant, P/N PR1422- B2 in accordance with MTC, Chapter 20-05-01-206.
D	<ul style="list-style-type: none"> - Visually inspect sealant (11) around fixed cover (9) and mobile cover (3) shown in Figure 3 for: <ul style="list-style-type: none"> a. deterioration/damage 	<ul style="list-style-type: none"> a. Clean area and reapply sealant (11), to faying surfaces in accordance with MTC, Chapter 20-05-01-206.

Table 1 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
(continued on following page)

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4. **INSPECTION SCHEDULE AND MAINTENANCE ACTION** (continued)

4.1. **INSPECTION SCHEDULE** (continued)

4.1.1. Every 150 FH or 12 M (Margins: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
E	<ul style="list-style-type: none"> - Visually inspect sealant (4) between blanking plate (2) and left hand cargo pod, shown in Figure 8 for: <ul style="list-style-type: none"> a. deterioration/damage 	<ul style="list-style-type: none"> a. Clean area and reapply sealant (4), in accordance with MTC, Chapter 20-05-01-206. Refer to Flag NOTE 1.
F	<ul style="list-style-type: none"> - Visually inspect left hand and right hand strut assemblies (2), in Figure 2 for: <ul style="list-style-type: none"> a. secure installation b. correct operation 	<ul style="list-style-type: none"> a. Ensure that the door strut is connected correctly to door and cargo pod. b. If door strut does not hold the door in the open position, contact AHCA for replacement part.
G	<ul style="list-style-type: none"> - Test left hand and right hand door latches (5), shown in Figure 3 for: <ul style="list-style-type: none"> a. freedom of movement b. proper latching 	<ul style="list-style-type: none"> a. Clean and lubricate to restore freedom of movement. b. Adjust latch screw (7) and jam nut (8) as required to ensure even seal contact around perimeter of door and cargo pod flange. Refer to Flag NOTE 1 in Figure 3.
H	<ul style="list-style-type: none"> - Perform functional test of locking latch assembly (5, Locking), shown in Figure 3 for: <ul style="list-style-type: none"> a. proper locking function 	<ul style="list-style-type: none"> a. Clean and lubricate to restore proper locking function.
I	<ul style="list-style-type: none"> - Visually inspect p-seal (12), shown in Figure 3 and (3) in Figure 4 for: <ul style="list-style-type: none"> a. debonding, cuts, cracking or loss of elasticity b. security 	<ul style="list-style-type: none"> a. If debonding, cuts, cracks or loss of elasticity are evident, contact AHCA for replacement p-seal (12) or (3). Trim as required to seal around door. Bond using adhesive (P/N 3M 847) in accordance with MTC Chapter 20-06-01-404. Refer to Flag NOTE 4 in Figure 3. b. Secure as required.

Table 1 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first
(continued on following page)

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.1. Every 150 FH or 12 M (Margins: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
J	<ul style="list-style-type: none"> - Visually inspect anti slip surface (8), on maintenance step and upper surface of cargo pod, shown in Figure 5 for: <ul style="list-style-type: none"> a. general condition 	<ul style="list-style-type: none"> a. If anti slip surface (8) appears worn in areas, remove remaining surface, clean area and reinstall anti-slip surface (8).
K	<ul style="list-style-type: none"> - Check harness attachment to switches, shown in Figure 6 for: <ul style="list-style-type: none"> a. security 	<ul style="list-style-type: none"> a. Secure as required.
L	<ul style="list-style-type: none"> - Visually inspect seal (3), between right hand cargo pod and EPU door, shown in Figure 7 for: <ul style="list-style-type: none"> a. debonding, cuts, cracking or loss of elasticity b. security 	<ul style="list-style-type: none"> a. If debonding, cuts, cracking or loss of elasticity are evident, contact AHCA for replacement seal (3). Trim as required to seal around EPU door. Bond using adhesive backing in accordance with MTC, Chapter 20-03-04-406. b. Secure as required.
M	<ul style="list-style-type: none"> - Visually check rubber bumper (7), shown in Figure 7 for: <ul style="list-style-type: none"> a. wear 	<ul style="list-style-type: none"> a. If wear is evident, contact AHCA for replacement rubber bumper. Remove sealant and clean area. Wet install rubber bumper (7) with sealant (8).
N	<ul style="list-style-type: none"> - Check ground stud (4), shown in Figure 9 for: <ul style="list-style-type: none"> a. security 	<ul style="list-style-type: none"> a. If ground stud has become loose, clean contact area of all paint and primer. Torque to value 6.4 Nm \pm10%. Apply conductive protectant (10).

Table 1 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M to coincide with the 150 FH(continued on following page) or 12 M helicopter inspection, whichever occurs first
(continued on following page)

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.1. Every 150 FH or 12 M (Margins: 15 FH or 36 D) to coincide with the 150 FH or 12 M helicopter inspection), whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
O	<ul style="list-style-type: none"> - Visually inspect bonding jumper, (3), shown in Figure 9 for: <ul style="list-style-type: none"> a. security b. cracking c. kinking 	<ul style="list-style-type: none"> a. If bonding jumper has become loose, clean contact area of all paint and primer. Re-tighten as required. Apply conductive protectant (10). b. No cracking is allowed. Contact AHCA for replacement parts if cracking found. c. If kinking is found, adjust as required.
P	<ul style="list-style-type: none"> - Visually inspect data plate, shown in Figure 10 for: <ul style="list-style-type: none"> a. security b. corrosion 	<ul style="list-style-type: none"> a. Secure as required. b. If corrosion is found,-clean in accordance with MTC, Chapter 20.04.03.401.
Q	<ul style="list-style-type: none"> - Visually inspect placards and markings (refer to Section 10, Figures 16 and 17) for: <ul style="list-style-type: none"> a. legibility b. secure mounting 	<ul style="list-style-type: none"> a. If placards have become illegible, contact AHCA for replacement parts. b. Secure, reattach placards as required.

Table 1 Inspection Schedule and Maintenance Action
Every 150 FH or 12 M to coincide with the 150 FH or 12 M helicopter inspection, whichever occurs first

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

- 4.1.2. If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only:
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	<ul style="list-style-type: none"> - Visually inspect base plate assembly (2), shown in Figure 11 for: <ul style="list-style-type: none"> a. security b. condition of sealant 	<ul style="list-style-type: none"> a. Secure as required. b. Clean area and reapply sealant (33) to faying surfaces of base plate assembly (2) in accordance with MTC, Chapter 20-05-01-206. Refer to NOTE 1.
B	<ul style="list-style-type: none"> - Check ground strap (11), shown in Figure 11 for: <ul style="list-style-type: none"> a. security b. cracking c. kinking 	<ul style="list-style-type: none"> a. If ground strap (11) has become loose, clean contact area of all paint and primer. Secure hardware and apply protective coating (34). b. No cracking is allowed. If cracking found contact AHCA for new part. c. If kinking found, adjust as required.
C	<ul style="list-style-type: none"> - Visually inspect close arm (5) and base plate assembly (2), shown in Figure 11 for: <ul style="list-style-type: none"> a. corrosion, cracking or deformation b. check pivot point of arm 	<ul style="list-style-type: none"> a. No corrosion, cracking or deformation allowed. If corrosion, cracking or deformation is found contact AHCA for replacement parts. b. Check smooth operation at hinge pin (31) and flanged bushing (30). Apply a thin coat of lubricant (35) on moving surfaces. Avoid contact between roller (9) and base plate assembly (2). Refer to NOTE 3.

Table 2 Inspection Schedule and Maintenance Action

If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with sliding door, AS 350 B3 only:
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first
(continued on following page)

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

- 4.1.2. If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
D	- Inspect the roller support (8), shown in Figure 11 for: a. security b. corrosion, cracks and deformation	a. Secure as required. b. No corrosion, cracking or deformation allowed. If corrosion, cracking or deformation is found contact AHCA for replacement part.
E	- Inspect roller (9), shown in Figure 11 for: a. clearance b. wear and operation	a. Ensure clearance of roller (9) between close arm (5) and base plate assembly (2). b. Check roller (9) for wear and smooth operation when opening the sliding door. No uneven wear is allowed. If wear is found contact AHCA for replacement part.
F	- Visually inspect retainer fitting (6), shown in Figure 11 for: a. corrosion or cracking	a. Remove nut (28) to view retainer fitting (6), Secure nut (28) after inspection. No corrosion or cracking allowed. If corrosion or cracking is found contact AHCA for replacement parts.
G	- Visually inspect barbed bracket (1), shown in Figure 12 for: a. security b. corrosion, cracking or deformation	a. Secure as required. b. No corrosion, cracking or deformation allowed. If corrosion, cracks or deformation is found contact AHCA for replacement parts. Refer to AS 350 B3, AMM Chapter 52- 12- 00, 6- 1.

Table 2 Inspection Schedule and Maintenance Action

If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:

or

If operating with sliding door, AS 350 B3 only:
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

- 4.1.2. If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
H	<ul style="list-style-type: none"> - Visually inspect sliding door bracket assembly (3), shown in Figure 12 for: <ul style="list-style-type: none"> a. security b. condition of sealant c. corrosion or cracking 	<ul style="list-style-type: none"> a. Secure as required. b. Clean area and reapply sealant (21) to faying surfaces of sliding door bracket assembly (3) in accordance with MTC, Chapter 20-05-01-206. Refer to NOTE 3. c. No corrosion or cracking allowed. If corrosion or cracking is found contact AHCA for replacement parts.
I	<ul style="list-style-type: none"> - Check connection between sliding door bracket assembly (3) and rod end (6) of sliding arm assembly, shown in Figure 12 for: <ul style="list-style-type: none"> a. security b. corrosion or cracking 	<ul style="list-style-type: none"> a. Secure as required. b. No corrosion or cracking allowed. If corrosion or cracking is found contact AHCA for replacement parts.
J	<ul style="list-style-type: none"> - Visually inspect doubler (1) and sliding door lower bracket assembly (2), shown in Figure 13 for: <ul style="list-style-type: none"> a. security b. condition of sealant c. corrosion, cracks and deformation 	<ul style="list-style-type: none"> a. Secure as required. b. Clean area and reapply sealant (17) to faying surfaces of doubler (1) or sliding door lower bracket assembly (2) in accordance with MTC, Chapter 20-05-01-206. Refer to NOTE 5. c. No corrosion, cracking or deformation allowed. If corrosion, cracking or deformation is found contact AHCA for replacement parts.

Table 2 Inspection Schedule and Maintenance Action

If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:

or

If operating with sliding door, AS 350 B3 only:
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first
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4. **INSPECTION SCHEDULE AND MAINTENANCE ACTION** (continued)

4.1. **INSPECTION SCHEDULE** (continued)

- 4.1.2. If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
K	<ul style="list-style-type: none"> - Visually check bracket cover (2), shown in Figure 12 and lower cover (3), shown in Figure 13 for: <ul style="list-style-type: none"> a. cracking or delamination 	<ul style="list-style-type: none"> a. No cracking or delamination allowed. If cracking or delamination is found contact AHCA for repair information or replacement parts.
L	<ul style="list-style-type: none"> - Check connection between sliding door lower bracket assembly (2) and rod end of lower swing arm assembly, shown in Figure 13 for: <ul style="list-style-type: none"> a. security b. corrosion or cracking 	<ul style="list-style-type: none"> a. Secure as required. b. No corrosion or cracking allowed. If corrosion or cracking is found contact AHCA for replacement parts.
M	<ul style="list-style-type: none"> - Visually check forward toe fitting (4), shown in Figure 13 for: <ul style="list-style-type: none"> a. cracking 	<ul style="list-style-type: none"> a. No cracking is allowed. If cracking is found contact AHCA found for replacement part.
N	<ul style="list-style-type: none"> - Visually check lower slider pad (5), shown in Figure 13 for: <ul style="list-style-type: none"> a. wear and operation 	<ul style="list-style-type: none"> a. Check slider pad (5) for wear and smooth operation when opening the sliding door. No uneven wear is allowed. If wear is found contact AHCA for replacement part. Refer to AS 350 B2/B3, AMM Chapter 52- 12-00, 6-1.

Table 2 Inspection Schedule and Maintenance Action

If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with sliding door, AS 350 B3 only:
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first
(continued on following page)

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4. INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

- 4.1.2. If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
O	<ul style="list-style-type: none"> - Visually check lower slider insert (6) and lower support ball joint (7), shown in Figure 13 for: <ul style="list-style-type: none"> a. cracking b. wear 	<ul style="list-style-type: none"> a. No cracking is allowed. If cracking is found contact AHCA found for replacement part. b. No wear is allowed. If wear is found contact AHCA found for replacement part.
P	<ul style="list-style-type: none"> - Check mounting hardware securing lower arm base (4) to bottom of cargo pod, shown in Figure 14 for: <ul style="list-style-type: none"> a. security 	<ul style="list-style-type: none"> a. Secure as required.
Q	<ul style="list-style-type: none"> - Visually inspect lower arm (5), shown in Figure 14 for: <ul style="list-style-type: none"> a. security b. check pivot point of arm 	<ul style="list-style-type: none"> a. Secure as required. b. Check smooth operation at lower arm base (4) and guide bushing (6). Apply a thin coat of lubricant (19) on moving parts. Refer to NOTE 2.
R	<ul style="list-style-type: none"> - Visually inspect shim (8), shown in Figure 14 for: <ul style="list-style-type: none"> a. condition of sealant 	<ul style="list-style-type: none"> a. Clean area and reapply sealant (20) to faying surfaces of shim (8) in accordance with MTC, Chapter 20-05-01-206. Refer to NOTE 3.
S	<ul style="list-style-type: none"> - Visually inspect placards and markings (refer to Section 10, Figure 18) for: <ul style="list-style-type: none"> a. legibility b. secure mounting 	<ul style="list-style-type: none"> a. If placards have become illegible, contact AHCA for replacement parts. b. Secure, reattach or replace placards as required.

Table 2 Inspection Schedule and Maintenance Action
If operating with Sliding Door, AS 350 B2 only:
Every 600 FH or 24 M (Margins: 60 FH or 73 D) to coincide with the 600 FH or 24 M helicopter inspection, whichever occurs first:
or
If operating with Sliding Door, AS 350 B3 only
Every 750 FH or 24 M (Margins: 75 FH or 73 D) to coincide with the 750 FH or 24 M helicopter inspection, whichever occurs first:

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5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

Contact AHCA for replacement component parts. No overhaul information required for this installation.

For information contact Airbus Helicopter Customer Support Representatives:

Email: hcaresupport.canada@airbus.com

After Hours AOG Support: 1-800-267-4999

Visit our website at www.airbushelicopters.ca

6. TROUBLESHOOTING

For electrical system troubleshooting refer to Figure 15 Cargo Pods Installation, Wiring Diagram.

No.	Trouble Symptom	Probable Cause	Corrective Action
1	<p>“DOOR” annunciator light remains ON when door is closed and latched.</p> <p>“DOOR” annunciator light fails to come ON when door is open.</p>	<p>Re- adjust micro switch</p> <p>Failure with Cargo Pod door indicating system</p> <p>Failure in Warning/ Caution Panel</p> <p>Faulty switch</p>	<p>Add or remove washers (12) to allow the instrument warning light to extinguish. Refer to Figure 5.</p> <p>Adjust micro switch installation as required. Refer to Figure 5, Flag NOTES 1 & 2.</p> <p>Perform Fault Isolation - Warning Caution Panel, AS 350 B2/B3 AMM, Chapter 31-51-00, 1-1.</p> <p>Replace switch (10, P/N 2-5445), make adjustments as per Figure 5, Flag NOTES 1 & 2. Verify operation in accordance with Section 8 B. REPLACEMENT 5 (excluding B2/B3) and 6 (B2/B3).</p>

Table 3 Troubleshooting Guide

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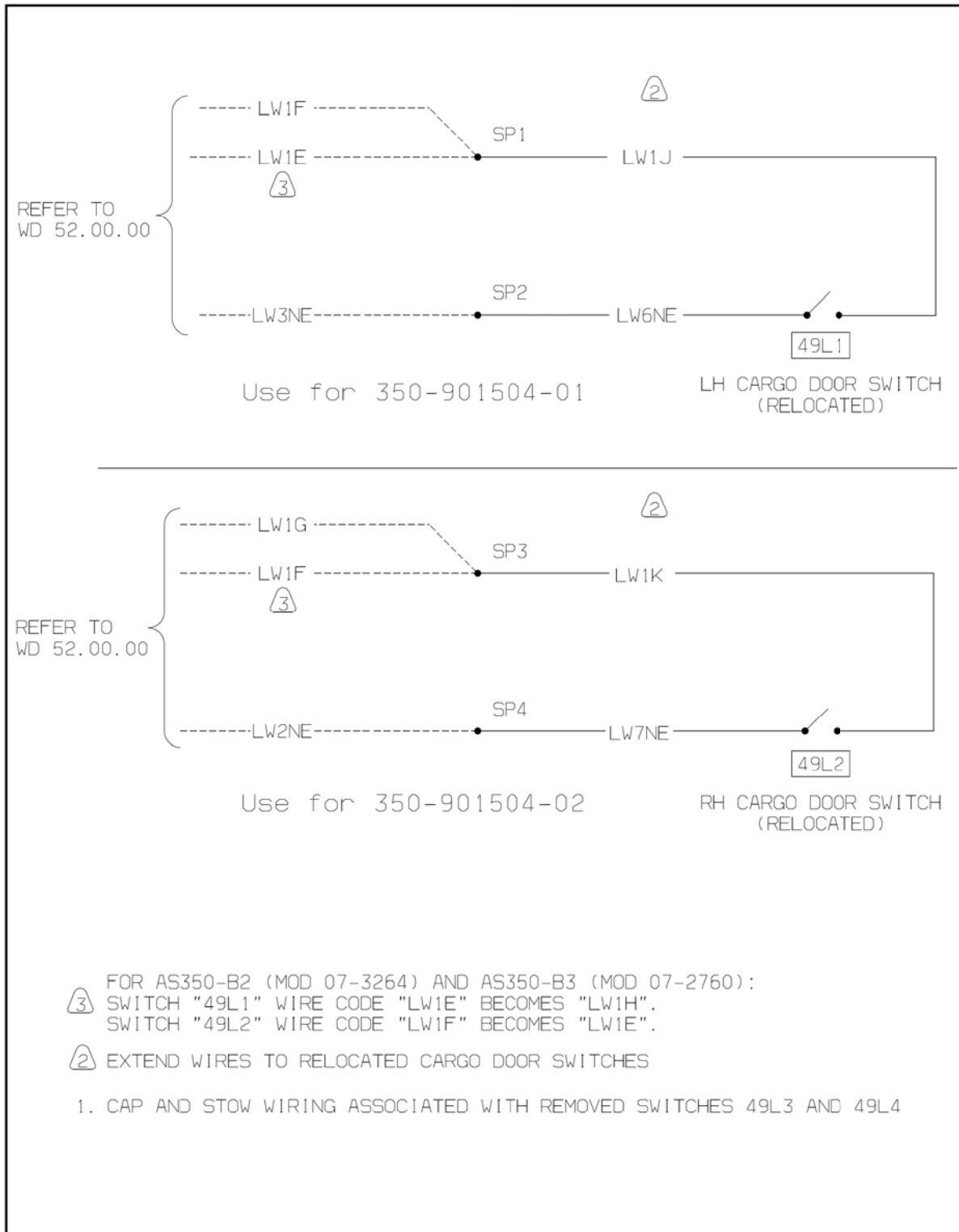


Figure 15 Cargo Pods Installation, Wiring Diagram

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7. SPECIAL TOOLING

No special test equipment or tools are required. Standard tools are adequate.

8. REMOVAL AND REPLACEMENT

PRELIMINARIES (Cargo Pods and Sliding Door)

A. For AS 350 (excluding AS 350 B2/B3):

- Read General Safety Instruction - Electrical Power Supply System, refer to AS 350 MET, Chapter 24.00.00.301.
- Comply with Instructions Applicable during Maintenance, refer to MTC, Chapter 20-07-03-401.
- Disconnect the external power in accordance with AS 350 MET, Chapter 24.00.00.301 (if applicable).
- Disconnect the battery in accordance with AS 350 MET, Chapter 24.30.00.401.
- Open and secure applicable circuit breakers/fuses before any servicing action.

B. For AS 350 B2/B3:

- Read General Safety Instruction - Electrical Power Supply System, refer to AS 350 AMM, Chapter 24-00-00,3-1.
- Comply with Instructions Applicable during Maintenance, refer to MTC, Chapter 20-07-03-401.
- Disconnect the external power in accordance with AS 350 AMM, Chapter 24-00-00, 2-1a PRE MOD 07-4280 or 24-00-00, 2-1b POST MOD 07-4280 (if applicable).
- Disconnect the battery in accordance with AS 350 AMM, Chapter 24-33-00,4-1.
- Open and secure applicable circuit breakers/fuses before any servicing action.

C. Comply with Observe General Repair Instructions Unriveting Principle - MTC, Chapter 20-03-01-102.

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8. REMOVAL AND REPLACEMENT (continued)

A. REMOVAL (Cargo Pod only, for Sliding Door refer to Section 8.C of this document)

- 1) CARGO POD (Refer to Figure 1)
 - a) Cargo Pod installation is a permanent installation.
- 2) CARGO POD DOOR (Refer to Figures 2 and 4)
 - a) With the cargo pod door open, disconnect the strut assembly (2) from the door by inserting a screw driver into the retaining clip and lift up. Refer to SECTION B- B in Figure 2.
 - b) Support the open door and remove screws (4, 8 places) that secure the door to the structural hinge (1) and remove the cargo pod door. Retain screws (4, 8 places) for reinstallation. Refer to SECTION D- D in Figure 4.
- 3) DOOR LATCH ASSEMBLIES (Non- Locking or Locking, Refer to Figure 3)
 - a) Remove sealant (11) from around edges of latch.
 - b) With the cargo pod door open (or on a work bench) position the door latch assemblies (5) in the open position. Refer to SECTION C - C.
 - c) Remove bolt (1) and washer (2) securing mobile cover (3).
 - d) Remove bolt securing clamp assembly (4) and remove latch assembly (5).
 - e) Retain all hardware for re- installation.
- 4) DOOR SWITCH (Refer to Figure 5)
 - a) The cargo pod door must be in the open position.
 - b) Disconnect wires from cargo pod door/micro switch (10).
 - c) Remove screws (6, 2 places), washers (4, 2 places) and nuts (7, 2 places) that secure the switch support (1). Retain hardware for reinstallation.
 - d) Remove the cargo pod door/micro switch (10) from switch support (1).

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8. REMOVAL AND REPLACEMENT (continued)

NOTE: Use torque per MTC, Chapter 20-02-05-404, unless otherwise specified.

B. REPLACEMENT (Cargo Pods only, for Sliding Door refer to Section 8.D of this document)

References:

General Methods of Applying Sealing Compounds, refer to MTC, Chapter 20-05-01-102.

1. CARGO POD DOOR (Refer to Figures 2, 3 and 4)

- a) Position the cargo pod door into the pod. Once correctly aligned begin securing door to structural hinge (1) using screws (4, 8 places) while continually checking alignment. Refer to SECTION D - D in Figure 4.
- b) Close and latch cargo pod door to confirm alignment.
- c) Open door and secure strut assembly (2) to strut attachment bracket (3). Refer to SECTION B- B in Figure 2.
- d) Adjust latch screw (7) and jam nut (8) to ensure even seal contact around the perimeter of the door and the cargo pod flange. Refer to NOTE 1 in Figure 3.

2. DOOR LATCH ASSEMBLIES (Non- Locking and Locking, Refer to Figure 3)

- a) With the cargo pod door open (or on a work bench), position door latch assemblies (5) (non- locking, 2 places and locking, 1 place) in the latch cutouts in cargo pod door assembly. Refer to Figure 3 for the locking latch assembly location.
- b) Align latch assembly (5) and clamp assembly (4) and secure using bolt. Apply thread locking compound (10) during installation. Refer to NOTE 2.
- c) Secure mobile cover (3) using bolt (1) and washer (2).

NOTE: Apply sealant (11) to faying surfaces in accordance with General Application of sealing compounds, refer to MTC, Chapter 20-05-01-102. Refer to NOTE 3.

NOTE: Fillet seal around edges of latch assembly (5) using sealant (11) in accordance with General Application of sealing compounds, refer to MTC, Chapter 20-05-01-102. Refer to NOTE 5.

3. CARGO POD DOOR SWITCH (Refer to Figures 5 and 6)

- a) Position door/micro switch (10) on switch support (1). Refer to Figure 5.
- b) With door open, secure door/micro switch (10), support (1) and spring (2) to pod using washers (4, 2 places), screws (6, 2 places) and nuts (7, 2 places).
- c) Connect micro switch wire routing LH and RH. Refer to NOTE 1 in Figure 6.
- d) With power ON and door closed and latched, ensure the "DOOR" annunciator light is OFF. Make adjustments by adding or removing washers (12). Refer to NOTE 1 in Figure 5.
- e) Once adjusted, apply thread locking compound (11) to bolt (5). Refer to NOTE 2.

4. If not removing sliding door refer to Section 8.10 of this document.

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8. REMOVAL AND REPLACEMENT (continued)

PRELIMINARIES (If operating with Sliding Door, AS 350 B2/B3 only)

- Observe General Repair Instructions Unriveting Principle, refer to MTC, Chapter 20-03-01-102.
- Comply with Removal - Sliding Door, AMM, Chapter 52-12-00, 4-1.

C. REMOVAL (If operating with Sliding Door, AS 350 B2/B3 only,
for Cargo Pod refer to Section 8.A. of this document)

MAINTENANCE TO BE PERFORMED WITH SLIDING DOOR ON AIRCRAFT

NOTE: Retain all removed hardware for reinstallation.

- 1) GROUND STRAP (Refer to Figure 11)
 - a) Open cargo pod and remove screw (19), washers (34, 2 places) washer (23) and nut (27) securing ground strap (11) to the upper cargo pod. Refer to SECTION H-H in Figure 11.
 - b) Remove bolt (15), washer (23, 2 places) and nut (27) securing opposite end of ground strap (11) to fuselage and remove ground strap (11).
- 2) CLOSE ARM (Refer to Figures 11 and 12)
 - a) With sliding door closed and latched, remove screws (10, 2 places) and washers (13, 2 places) securing bracket cover (2) to sliding door bracket assembly (3). Refer to DETAIL V and SECTION N-N in Figure 12.
 - b) Remove nut (17), washers (12, 3 places) bolt (7) and remove close arm (5, Figure 11) from sliding door bracket assembly (3). Refer to VIEW W in Figure 11 and DETAIL V in Figure 12.
 - c) Remove screw (16, 2 places) and remove hinge cap (10). Refer to SECTION I-I in Figure 11.
 - d) Remove hinge pin (31), washer (20), washer (21) and flanged bushing (30, 2 places) securing close arm (5) to base plate assembly (2). Refer to SECTION I-I and VIEW W in Figure 11.
- 3) ROLLER AND ROLLER SUPPORT (Refer to Figure 11)
 - a) Remove close arm as per Section 8.C.3. of this document and place on workbench.
 - b) With close arm (5) on workbench, remove screw (17), screw (18), washers (25, 2 places), nuts (28, 2 places) securing roller support (8) inside close arm (5). Laminated shims (32) may stay with close arm (5). Refer to SECTION L-L in Figure 11.
 - c) Remove roller support (8), remove axle (7) and washers (25, 2 places) securing roller (9).
- 4) BASE PLATE ASSEMBLY (Refer to Figure 11)
 - a) Remove close arm as per Section 8.C.3. of this document and place on work bench.
 - b) Remove bolt (14), washers (22, 2 places), radius block (29) and nut (26). Refer to SECTION J-J in Figure 11.
 - c) Remove bolts (13, 6 places) and washers (22, 6 places) from inserts (12, 6 places) securing base plate assembly (2) to top surface of cargo pod. Refer to SECTION K-K in Figure 11.

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8. REMOVAL AND REPLACEMENT (continued)

C. REMOVAL (If operating with Sliding Door, AS 350 B2/B3 only,
for Cargo Pod refer to Section 8.A. of this document) (continued)

5) LOWER SWING ARM ASSEMBLY (Refer to Figures 13 and 14)

- a) With sliding door closed and latched, remove screws (9, 3 places), washers (11, 3 places) securing lower cover (3) to sliding door lower bracket assembly (2). Refer to VIEW S in Figure 13.
- b) Remove nut (15), washers (12, 3 places), bolt (8) securing rod end (7, Figure 14) of lower arm (5, Figure 14) to sliding door lower bracket assembly (2). Refer to DETAIL T in Figure 13 and SECTION R-R and SECTION S-S in Figure 14.
- c) To remove lower arm base (4), open cargo pod and remove screw (10) from pod floor, washer (12) and nut (15). Remove bolts (9, 2 places) and washers (12, 2 places). Refer to SECTION Q-Q and VIEW R in Figure 14.

MAINTENANCE TO BE PERFORMED ON WORK BENCH WITH SLIDING DOOR REMOVED

NOTE: Removing sliding door is a two person operation.

NOTE: Remove sliding door if removing doubler, sliding door lower bracket assembly, barbed bracket, forward toe fitting or lower slider insert. This operation requires two persons. Follow steps given below in Sliding Door Removal, Section 8.C.7).

6) SLIDING DOOR REMOVAL (Refer to Figures 11, 12, 13 & 14)

- a) With sliding door closed and locked, remove screws (10, 2 places) and washers (13, 2 places) securing bracket cover (2) to sliding door bracket assembly (3). Refer to DETAIL V and SECTION N-N in Figure 12.
- b) Remove nut (17), washers (12, 3 places) and bolt (7) securing rod end (6) of close arm (5, Figure 11) to sliding door bracket assembly (3). Refer to DETAIL V in Figure 12.
- c) Remove screws (9, 3 places), washers (11, 3 places) securing lower cover (3) to sliding door lower bracket assembly (2). Refer to VIEW S in Figure 13.
- d) Remove nut (15), washers (12, 3 places) and bolt (8) securing rod end (7, Figure 14) of lower arm (5) to sliding door lower bracket assembly (2). Refer to DETAIL T in Figure 13 and SECTION S-S in Figure 14.
- e) Mark location of forward toe fitting (4) and remove screws (10, 3 places), washers (13, 6 places) and nuts (14, 3 places) securing forward tow fitting (4) to sliding door. Refer to SECTION P-P in Figure 13.
- f) Leave forward toe fitting (4) on aircraft secured to lower support ball joint (7) while keeping lower slider pad (5) and lower slider insert (6) in lower rail. Refer to SECTION O-O in Figure 13.
- g) Unlock sliding door and carefully remove sliding door from aircraft and place on workbench.

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8. **REMOVAL AND REPLACEMENT** (continued)

C. REMOVAL (If operating with Sliding Door, AS 350 B2/B3 only,
for Cargo Pod refer to Section 8.A. of this document) (continued)

7) SLIDING DOOR BRACKET ASSEMBLY (refer to Figure 12)

c) Remove screws (9, 4 places), washers (11, 4 places) and nuts (16, 4 places) securing shim (21) and sliding door bracket assembly (3). Refer to DETAIL V and SECTION N-N in Figure 12.

8) DOUBLER AND SLIDING DOOR LOWER BRACKET ASSEMBLY (Refer to Figure 13)

a) With sliding door on workbench, drill out rivets securing sliding door lower bracket assembly (2) to the sliding door. Discard sliding door lower bracket assembly (2) if it is being replaced. Refer to DETAIL T.

b) Drill out rivets securing doubler (1) to sliding door. Discard doubler (1).

9) FORWARD TOE FITTING (Refer to Figure 13)

a) With sliding door removed, remove nut (15) securing lower support ball joint (7) to forward toe fitting (4) from the lower rail. Refer to SECTION O-O.

b) Discard forward toe fitting (4) and retain hardware. Refer to SECTION O-O.

10) BARBED BRACKET (Refer to Figure 12)

NOTE: Mark location of barbed bracket (1) before removal.

a) With sliding door on workbench, remove bolt (8, 2 places) and washer (11, 2 places) securing barbed bracket (1) to sliding door. Remove all hardware and retain installation hardware. Refer to DETAIL U in Figure 12 .

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8. REMOVAL AND REPLACEMENT (continued)

D. REPLACEMENT (If operating with Sliding Door only, AS 350 B2/B3 only, for Cargo Pod refer to Section 8.B of this document)

NOTE: Use torque per MTC, Chapter 20.02.05.404, unless otherwise specified.

Comply with general safety instructions for mechanical assemblies - AMM, Chapter 60-00-00, 3-1

Electrical Bonding - MTC, Chapter 20.02.07.101

Safetying with cotter pins - MTC, Chapter 20-02-06-404

Replacement of rivets - refer to MTC, Chapter 20-03-02-101

General Sealing procedures - MTC, Chapter 20-05-01-101

General methods of applying sealing compounds - MTC, Chapter 20-05-01-102

Application of PR 1422 Class B sealant - MTC, Chapter 20-05-01-206

General rules for bonding with adhesives - MTC, Chapter 20-06-01-101

MAINTENANCE TO BE PERFORMED ON WORK BENCH WITH SLIDING DOOR REMOVED

1) DOUBLER AND SLIDING DOOR LOWER BRACKET ASSEMBLY (Refer to Figure 13)

- a) With sliding door on work bench, place doubler (1) on outside of sliding door and begin securing doubler (1) to sliding door using rivets (16, 20 places), and rivets (MS20470AD4-4, 7 places). Refer to DETAIL T.

NOTE: Electrical bonding of rivet (MS20470AD4-4, 1 place) contact area to be cleaned of all non-conductive coating 2-4mm beyond contact area. Seal with protective coating (18). Refer to NOTE 3 and DETAIL T.

- b) Carefully reposition door with the outer door facing down. Continue securing doubler (1) from inside face of door using rivets (MS20470AD4-4, 10 places). Cover heads of rivets with sealant (17) to create a smooth surface for door seal. Refer to NOTE 2 and DETAIL T.
- c) Position sliding door lower bracket assembly (2) on doubler (1) on outer face of door and secure from inside face using rivets (MS20470AD4-6, 6 places). Cover heads of rivets with sealant (17) to create a smooth surface for the door seal. Apply fillet seal to outer edge of doubler (1) and sliding door lower bracket assembly (2) using sealant (17). Reposition door seal. Refer to NOTES 2 and 5 and DETAIL T.

NOTE: Electrical bonding of rivet (MS20470AD4-6, 1 place) contact area to be cleaned of all non-conductive coating 2-4mm beyond contact area. Seal with protective coating (18). Refer to NOTE 3 and DETAIL T.

2) BARBED BRACKET (Refer to Figure 12)

- a) With sliding door on work bench, align barbed bracket (1) to mark made on door before removing existing bracket and secure using washers (11, 2 places) and bolts (8, 2 places). Refer to DETAIL U in Figure 12.
- b) Secure upper rail ball roller (5) to barbed bracket (1) using threaded pin (20), washers (12, 2 places), spring washer (14, 1 place), plain nut (15, 1 place), washer (12, 1 place) and castellated nut (18, 1 place). Secure castellated nut (18) with cotter pin (19). Refer to SECTION M-M in Figure 12.
- c) Adjust thickness of shim, laminated (4) to achieve 2mm maximum over entire length of door travel. Refer to NOTE 2 in Figure 12.

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8. REMOVAL AND REPLACEMENT (continued)

D. REPLACEMENT (Sliding Door only, for Cargo Pod refer to Section 8.B of this document)

- 3) LOWER SLIDER PAD, LOWER SLIDER INSERT & LOWER SUPPORT BALL JOINT
(Refer to Figures 12 & 13)
 - a) With sliding door removed, remove lower support ball joint (7), lower slider pad (5) and lower slider insert (6) from lower rail. Replace damaged part and reassemble lower support ball joint (7), lower slider pad (5) and lower slider insert (6) into the lower rail. Ensure toe fitting (4) is reattached to lower support ball joint (7) and secured using nut (15); to be secured once sliding door is reinstalled. Refer to SECTION O-O.
- 4) FORWARD TOE FITTING (Refer to Figure 13)
 - a) With sliding door removed, replace forward toe fitting (4). Locate forward toe fitting (4) on lower support ball joint (7) located in lower rail on aircraft, and secured with nut (15); to be secured once sliding door is reinstalled. Refer to SECTION O-O.
- 5) SLIDING DOOR INSTALLATION (Refer to Figures 13)
 - a) With two persons holding the door, insert upper rail roller ball (5, refer to Figure 12) into the top rail.
 - b) Align forward toe fitting with previously marked location and secure forward toe fitting to door using screws (10, 3 places), washers (13, 6 places) and nuts (14, 3 places). Refer to SECTION P-P in Figure 13.
 - c) Adjust lateral position of lower forward corner of door by turning lower support ball joint (7) in forward toe fitting (4). Lock with nut (15). The threaded end of lower support ball joint may be trimmed if there is excessive protrusion. Refer to NOTES 1 and 4 in Figure 13.

MAINTENANCE TO BE PERFORMED WITH SLIDING DOOR ON AIRCRAFT

- 6) BASE PLATE ASSEMBLY (Refer to Figure 11)
 - a) Apply fay sealant (33) to base plate assembly (2) and wet install base plate assembly (2) onto top surface of cargo pod using bolts (13, 6 places) and washers (22, 6 places). Refer to NOTE 1, VIEW W and SECTION K-K in Figure 11.
 - b) Secure bolt (14), washers (22, 2 places), radius block (29) and nut (26) to base plate assembly (2). Refer to SECTION J-J in Figure 11.
 - c) Apply fillet seal to outer edge of base on cargo pod top surface using sealant (33). Refer to NOTE 1 and Figure 11.
- 7) GROUND STRAP (Refer to Figure 11)
 - a) If replacing ground strap (11), secure one end to fuselage with bolt (15), washer (23, 2 places) and nut (27). Electrical bonding of washer (23) contact area to be cleaned of all non-conductive coating 2-4mm beyond contact area. Seal with protective coating (34). Refer to NOTE 2 and SECTION H-H.
 - b) Secure other end of ground strap (11) using screw (19), washer (23) washer (24) and nut (27). Electrical bonding of screw (19) contact area to be cleaned of all non-conductive coating 2-4mm beyond contact area. Seal with protective coating (34). Refer to NOTE 2 and SECTION H-H.
- 8) ROLLER AND ROLLER SUPPORT (Refer to Figures 11)
 - a) Locate washers (25, 2 places) and roller (9) on axle (7) and inside roller support (8). Refer to SECTION L-L in Figure 11.
 - b) Reposition roller support (8) into close arm (5) and secure using screw (17), screw (18), washers (25, 2 places), nuts (28, 2 places) and shim, laminated (32). Do not tighten screws at this point.

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8. REMOVAL AND REPLACEMENT (continued)

D. REPLACEMENT (If operating with Sliding Door only, AS 350 B2/B3 only,
for Cargo Pod refer to Section 8.B of this document)

9) CLOSE ARM (Refer to Figure 11)

- a) Locate close arm (5) into base plate assembly (2) and secure using washer (21), flanged bushing (30, 2 places), washer (20) and hinge pin (31). Apply a thin coat of lubricant (35) on moving parts. Refer to NOTE 3 and SECTION I-I in Figure 11.
- b) Secure hinge pin (31) using hinge cap (10), screws (16, 2 places). Seal faying surfaces and gaps with sealant (36) being careful to avoid getting sealant on moving parts. Refer to NOTE 4 and SECTION I-I.
- c) Apply a thin coat of lubricant (35) on moving surfaces. Avoid contact between roller (9) and base plate assembly (2). Refer to NOTE 3.
- d) Adjust thickness of shims (32) to achieve firm contact between roller (9) and base plate assembly (2) while maintaining minimum gap of 0.5mm between retainer fitting (6) and base plate assembly (2). Refer to NOTE 6.

10) SLIDING DOOR BRACKET ASSEMBLY (Refer to Figure 12)

- a) Locate sliding door bracket (3) on sliding door and loosely secure using screws (9, 4 places), washers (11, 4 places) and nuts (16, 4 places). Peel shim (21) as required to ensure clearance between sliding door bracket (3) and fuselage is maintained with sliding door in closed position. Refer to DETAIL V and SECTION N-N in Figure 12.
- b) Locate rod end (6) of close arm (5, Figure 11) and sliding door bracket assembly (3). With hardware loose on sliding door bracket assembly (3), adjusting length and angle of rod end (6) on sliding arm assembly (3) to a nominal protrusion of 24 mm, maximum protrusion 28mm. Refer to NOTE 1 and DETAIL V in Figure 12.
- c) Once correct location is determined, apply faying sealant (22) to sliding door bracket (3) and shim (21) and wet install on sliding door. Secure sliding door bracket assembly (3) to sliding door using screws (9, 4 places), washers (11, 4 places) and nuts (16, 4 places). Secure rod end (6) using bolt (7), washers (12, 2 places) and nut (17). Apply fillet seal to outer edge of sliding door bracket assembly (3) and shim (21) using sealant (22). Secure rod end with jam nut. Refer to NOTES 1 and 3 and DETAIL V in Figure 12.
- d) Secure bracket cover (2) using screws (10, 2 places) and washers (13, 2 places). Refer to SECTION N-N in Figure 12.

11) LOWER SWING ARM ASSEMBLY (Refer to Figures 13 and 14)

- a) Secure lower arm base (4) to bottom of the cargo pod using bolts (9, 2 places) and washers (12, 2 places). Refer to SECTION Q-Q in Figure 14.
- b) Open cargo pod and secure screw (10) from inside of pod, washer (12) and nut (15). Refer to SECTION Q-Q.

NOTE: Electrical bonding of screw (10) and washer (12) contact area to be cleaned of all non-conductive coating 2-4mm beyond contact area. Seal with protective coating (18). Refer to NOTE 1 and SECTION Q-Q.

- c) Locate rod end (7, Figure 14) to provide smooth operation of sliding door. Nominal protrusion of rod end (7) is 24mm, maximum protrusion 28mm. Once correct location is determined, tighten hardware. Refer to NOTE 4 in Figure 13.
- d) Secure rod end to sliding door lower bracket assembly (2) using bolt (8), washers (12, 2 places) and nut (15). Secure rod end with jam nut. Refer to DETAIL T in Figure 13.
- e) Secure lower cover (3) to sliding door lower bracket assembly (2) using screw (9, 3 places) and washers (11, 3 places). Refer to VIEW S in Figure 13.
- f) Install labels on Sliding arm assembly "NO HANDLING" and "NO STEP". Apply label on lower swing arm assembly "NO HANDLING". Refer to Figure 18.

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8. **REMOVAL AND REPLACEMENT** (continued)

12. Close all areas opened for service in the PRELIMINARIES paragraph of this section.
13. For AS 350 (excluding AS 350 B2/B3)
 - Reconnect battery, AS 350 MET, Chapter 24.30.00.401.
 - Reconnect external power unit, AS 350 MET, Chapter 24.00.00.201 (if required).
 - Reference functional test - DC Power System in accordance with AS 350, MET, Chapter 24.30.00.501.
 - If LH and RH Cargo Pod installed:
With power ON
 - Ensure both LH and RH cargo pod doors are closed and verify that the "DOOR" annunciator light is OFF.
 - Open LH cargo pod door (RH cargo pod door closed) and ensure the "DOOR" annunciator light is ON when the door is open.
 - Check when door is closed and latched that "DOOR" annunciator light is OFF.
 - Repeat the sequence for the RH cargo pod door.
 - If only the LH or the RH Cargo Pod installed:
With power ON
 - Ensure the cargo pod door and the opposite side cargo compartment door are closed and verify that the "DOOR" annunciator light is OFF.
 - Open cargo pod door (opposite side cargo compartment door closed) and ensure the "DOOR" annunciator light is ON when the door is open.
 - Check when door is closed and latched that "DOOR" annunciator light is OFF.
14. For AS 350 B2/B3
 - Reconnect battery, AS 350 B2/B3 AMM, Chapter 24- 33- 00, 4- 1.
 - Reconnect external power unit, AS 350 B2/B3 AMM, Chapter 24- 00- 00, 2- 1 (if required).
 - Reference functional test - DC Power Supply System in accordance with AS 350 B2/B3, AMM, Chapter 24- 30- 00, 5- 1.
 - If LH and RH Cargo Pod installed:
With power ON
 - Ensure both LH and RH cargo pod doors are closed and verify that the "DOOR" annunciator light is OFF.
 - Open LH cargo pod door (RH cargo pod door closed) and ensure the "DOOR" annunciator light is ON when the door is open.
 - Check when door is closed and latched that "DOOR" annunciator light is OFF.
 - Repeat the sequence for the RH cargo pod door.
 - If only the LH or the RH Cargo Pod installed:
With power ON
 - Ensure the cargo pod door and the opposite side cargo compartment door are closed and verify that the "DOOR" annunciator light is OFF.
 - Open cargo pod door (opposite side cargo compartment door closed) and ensure the "DOOR" annunciator light is ON when the door is open.
 - Check when door is closed and latched that "DOOR" annunciator light is OFF.
 - If operating with Sliding Door:
 - Comply with Installation - Sliding Door - AMM, Chapter 52- 12- 00, 4- 2.
 - Comply with Adjustment/Test - Sliding Door - AMM, Chapter 52- 12- 00, 5- 1.
15. Use an ohm meter, point to point check all connections to ensure correct installation.
16. Perform operational check of all systems that were serviced in accordance with the AS 350 Maintenance Manual or Aircraft Maintenance Manual procedures and the system's installation/operation manual.

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9. WEIGHT AND BALANCE DATA

A. Removed Items

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL MOMENT	
	kg	lbs	m	in	kg m	lb in
OEM Left Hand Cargo Door	- 3.9	- 8.7	3.51	138.0	- 13.90	- 1204.4
OEM Right Hand Cargo Door	- 3.9	- 8.7	3.51	138.0	- 13.90	- 1204.4
Total	- 7.9	- 17.4	3.51	138.0	- 27.80	- 2408.9

B. Added Items (Earlier Design)

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Left Hand Cargo Pod (350- 200814)	19.5	42.9	3.53	139.0	68.84	5964.8
Right Hand Cargo Pod (350- 200824)	19.5	42.9	3.53	139.0	68.84	5964.8
Total	39.0	85.8	3.53	139.0	137.70	11930.0

OR

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Left Hand Cargo Pod (350- 201814)	17.2	37.9	3.53	139.0	60.72	5261.3
Right Hand Cargo Pod (350- 201824)	17.4	38.3	3.53	139.0	61.42	5322.4
Total	34.6	76.2	3.53	139.0	122.10	10584.0

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9. WEIGHT AND BALANCE DATA

Lateral CG, applicable when only the left hand cargo pod is installed.

A. Removed Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
OEM Left Hand Cargo Door	-3.9	-8.7	0.77	30.3	-3.05	-264.2
Total	-3.9	-8.7	0.77	30.3	-3.05	-264.2

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Left Hand Cargo Pod (350-200814)	19.5	42.9	0.85	33.5	-16.58	-1436.3
Total	19.5	42.9	0.85	33.5	-16.58	-1436.3

OR

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Left Hand Cargo Pod (350-201814)	17.2	37.9	0.85	33.5	-14.62	-1266.9
Total	17.2	37.9	0.85	33.5	-14.62	-1266.9

Lateral CG, applicable when only the right hand cargo pod is installed.

A. Removed Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
OEM Right Hand Cargo Door	-3.9	-8.7	0.77	30.3	-3.05	-264.2
Total	-3.9	-8.7	0.77	30.3	-3.05	-264.2

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Right Hand Cargo Pod (350-200824)	19.5	42.9	0.85	33.5	16.58	1436.3
Total	19.5	42.9	0.85	33.5	16.58	1436.3

OR

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
Right Hand Cargo Pod (350-201824)	17.4	38.3	0.85	33.5	14.79	1281.6
Total	17.4	38.3	0.85	33.5	14.79	1281.6

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9. WEIGHT AND BALANCE DATA

Additional Weight and Balance Data, when sliding door compatibility option is installed (AS 350 B2/B3 only).

A. Removed Items

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Sliding Door Compatibility Option (350-205414)	-1.07	-2.37	3.00	117.91	-3.21	-279.44
RH Sliding Door Compatibility Option (350-205424)	-1.07	-2.37	3.00	117.91	-3.21	-279.44
Total	-2.14	-4.74	3.00	117.91	-6.42	-558.88

B. Added Items

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Sliding Door Compatibility Option (350-205414)	1.63	3.60	2.95	115.91	4.81	417.28
RH Sliding Door Compatibility Option (350-205424)	1.63	3.60	2.95	115.91	4.81	417.28
Total	3.26	7.20	2.95	115.91	9.62	834.56

Lateral CG, applicable when only the left hand sliding door compatibility option is installed.

A. Removed Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Sliding Door Compatibility Option (350-205414)	-1.07	-2.37	-0.81	-32.03	0.87	75.92
Total	-1.07	-2.37	-0.81	-32.03	0.87	75.92

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Sliding Door Compatibility Option (350-205414)	1.63	3.60	-0.84	-33.20	-1.37	-119.52
Total	1.63	3.60	-0.84	-33.20	-1.37	-119.52

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9. **WEIGHT AND BALANCE DATA** (continued)

Additional Weight and Balance Data, when Sliding Door Compatibility Option is installed (AS 350 B2/B3 only). (continued)

Lateral CG, applicable when only the right hand sliding door compatibility option is installed.

A. Removed Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
RH Sliding Door Compatibility Option (350-205424)	-1.07	-2.37	0.81	32.03	-0.87	-75.92
Total	-1.07	-2.37	0.81	32.03	-0.87	-75.92

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
RH Sliding Door Compatibility Option (350-205424)	1.63	3.60	0.84	33.20	1.37	119.52
Total	1.63	3.60	0.84	33.20	1.37	119.52

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10. PLACARDS AND MARKINGS

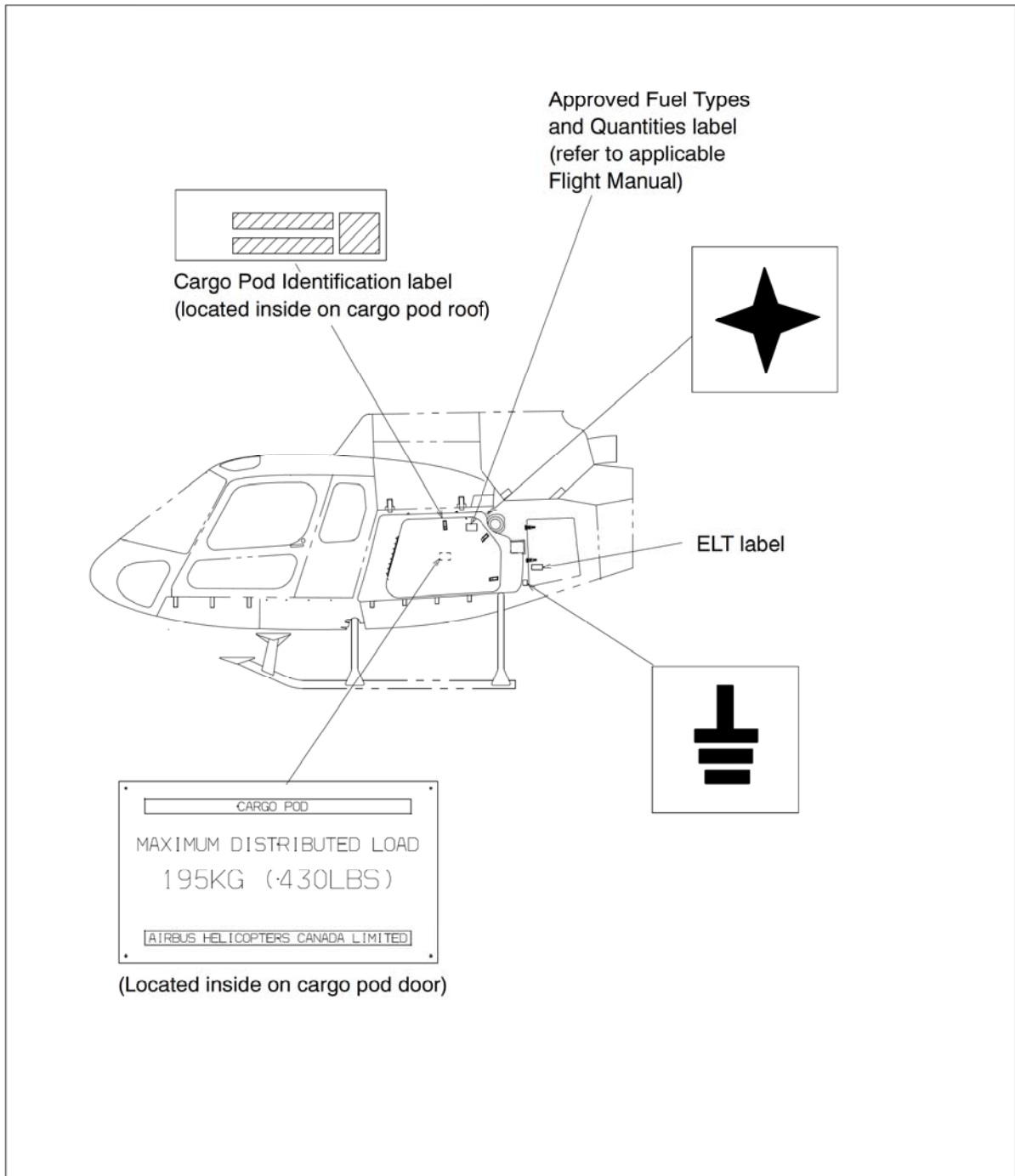


Figure 16 Markings located on LH Cargo Pod

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10. PLACARDS AND MARKINGS

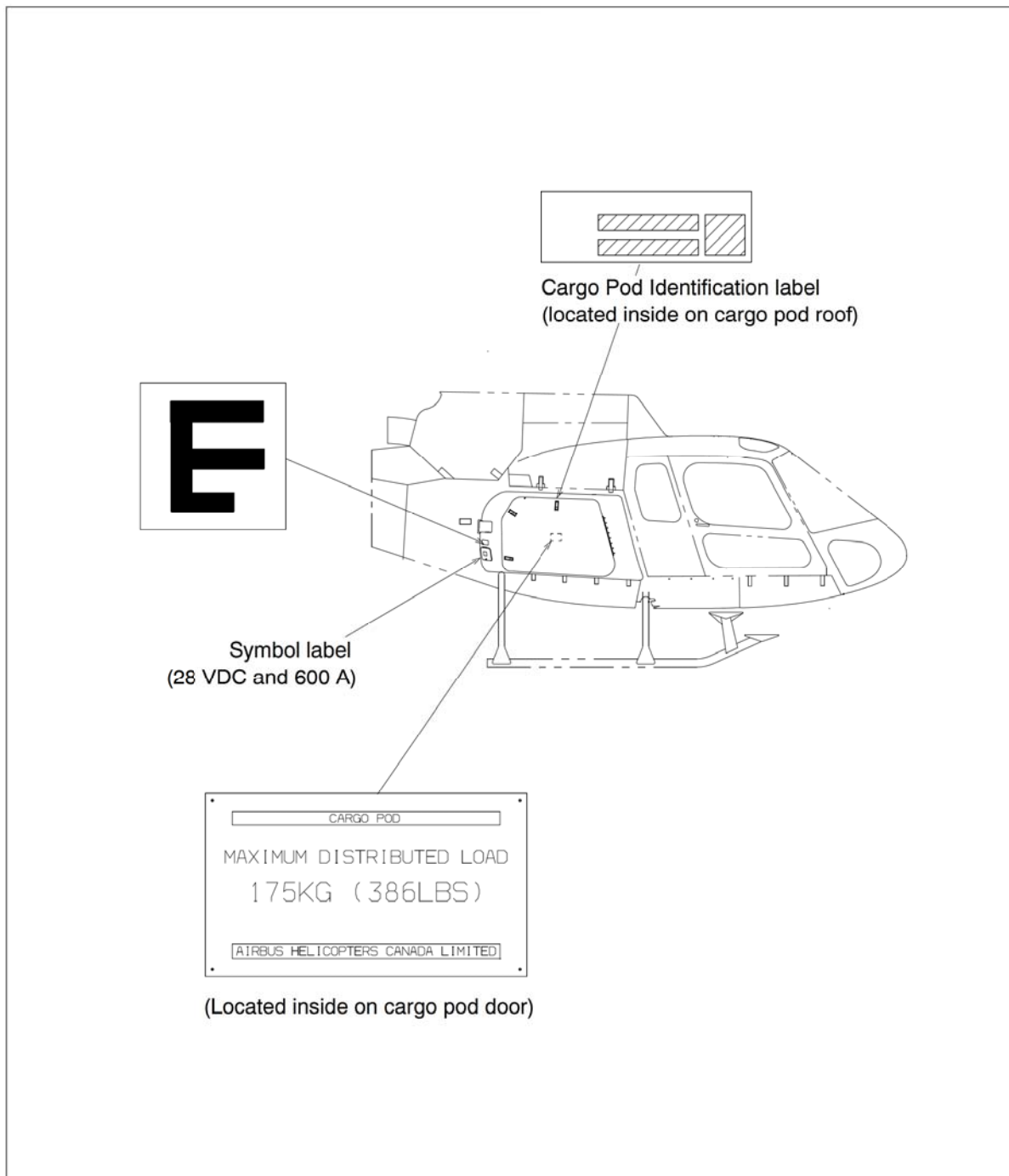


Figure 17 Markings located on RH Cargo Pod

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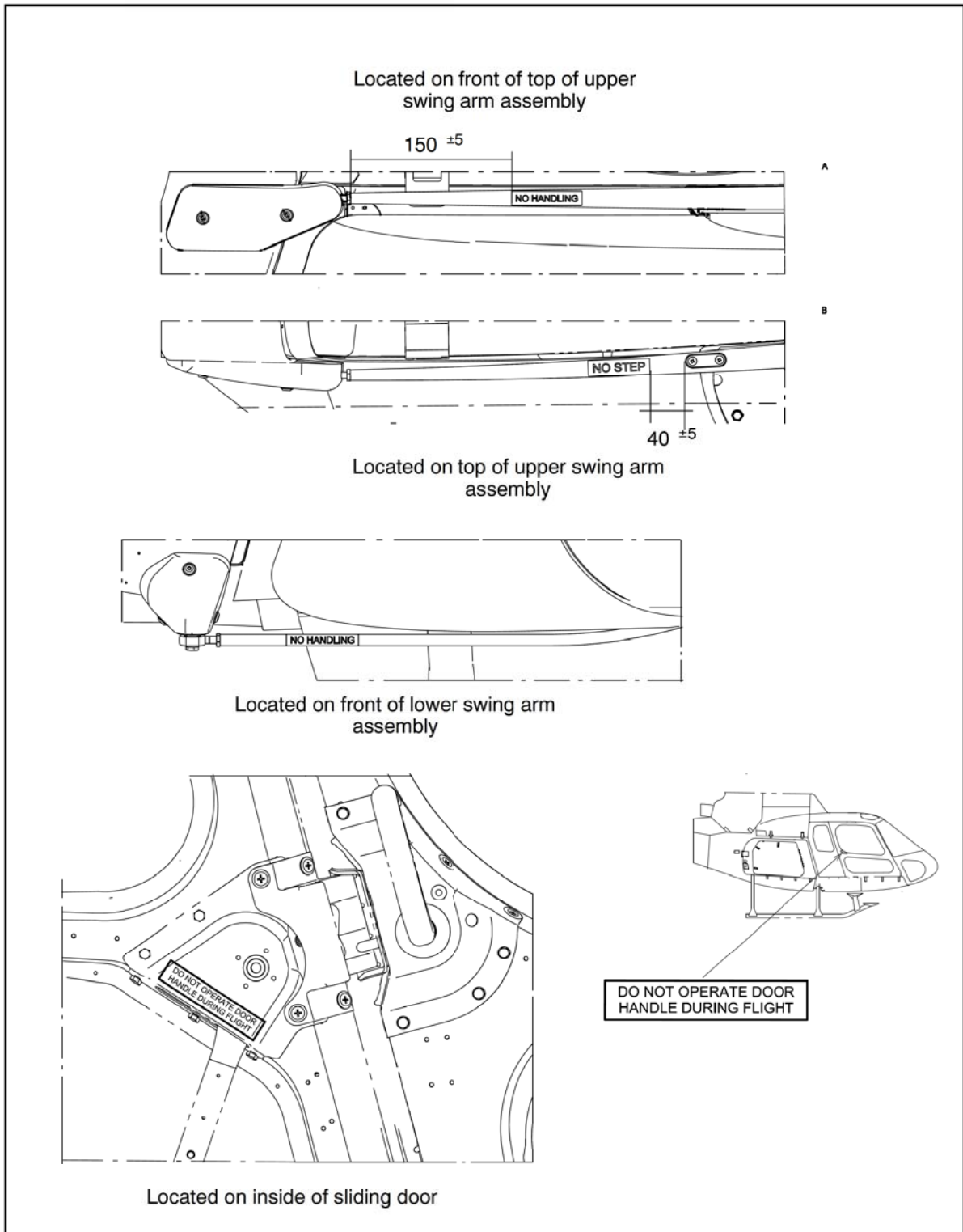


Figure 18 Markings located on Sliding Door Installation Labels (AS 350 B2/B3 only)

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