

AIRBUS HELICOPTERS CANADA LIMITED
SUBJECT:

Required maintenance for the Cargo Pod Installation (P/N 355-200814/24).

APPLICABILITY :

 Aircraft with the subject modification embodied in accordance with TCCA STC
 No. SH97-60 or any relevant foreign approvals.

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Rev. 1 ACCEPTED (Civil A/W Authority)	(As per ICA Compliance Check Sheet)		TCCA
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1. GENERAL

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

The cargo pods installation consists of the following main components:

- 1) Cargo Pod, LH complete, P/N 355-200814
- 2) Cargo Pod, RH complete, P/N 355-200824

The Installation of LH and / or RH Cargo Pods is installed in accordance with Master Drawing List MDL-99-007. ■

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

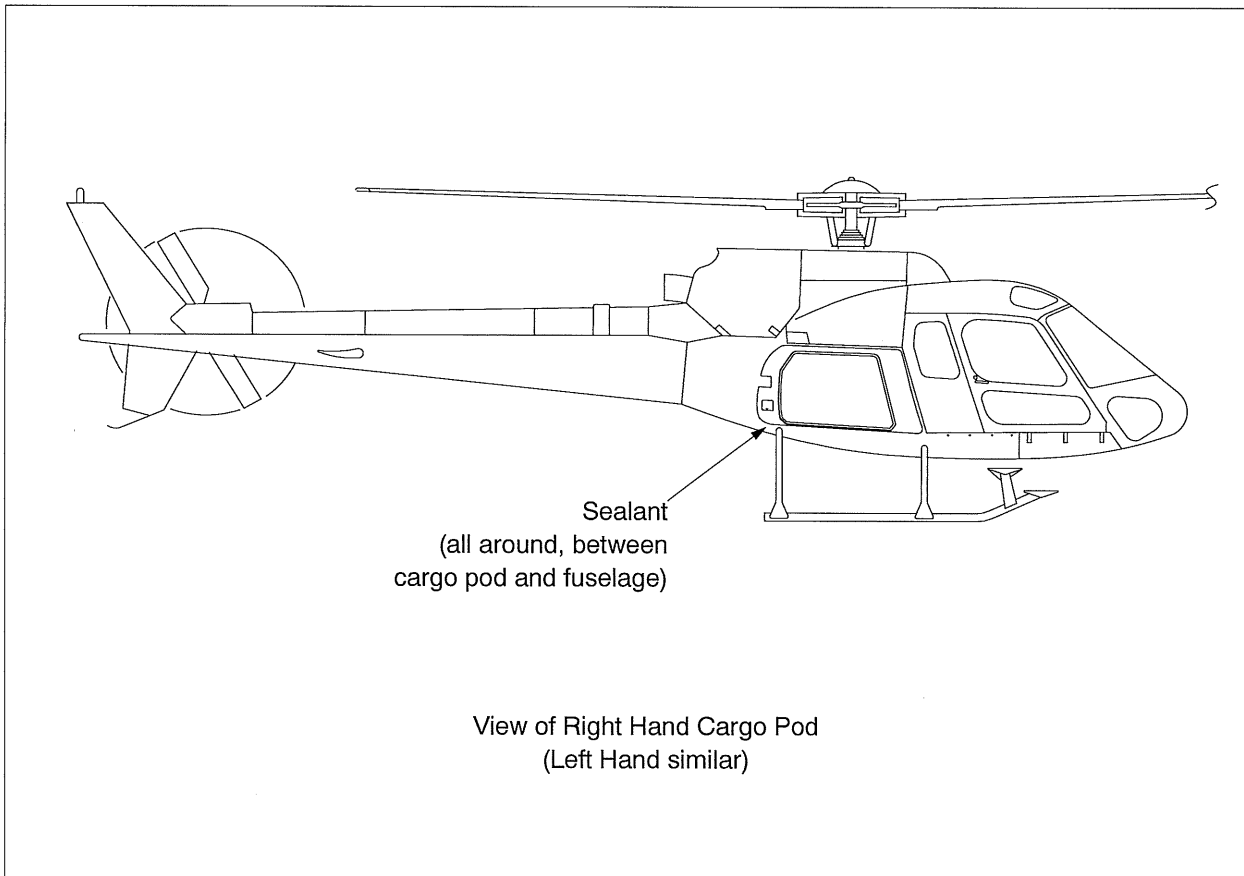
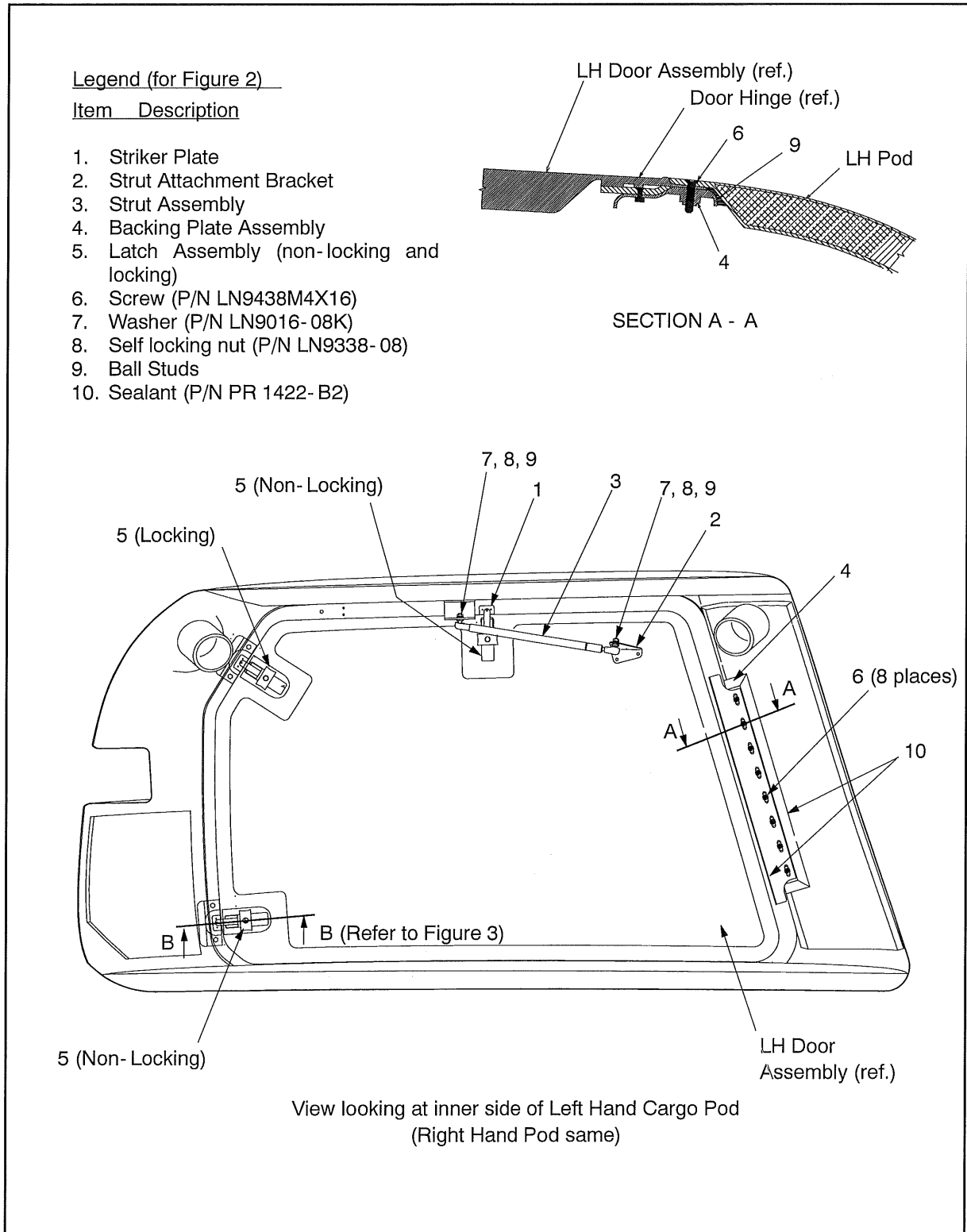


Figure 1 General Layout

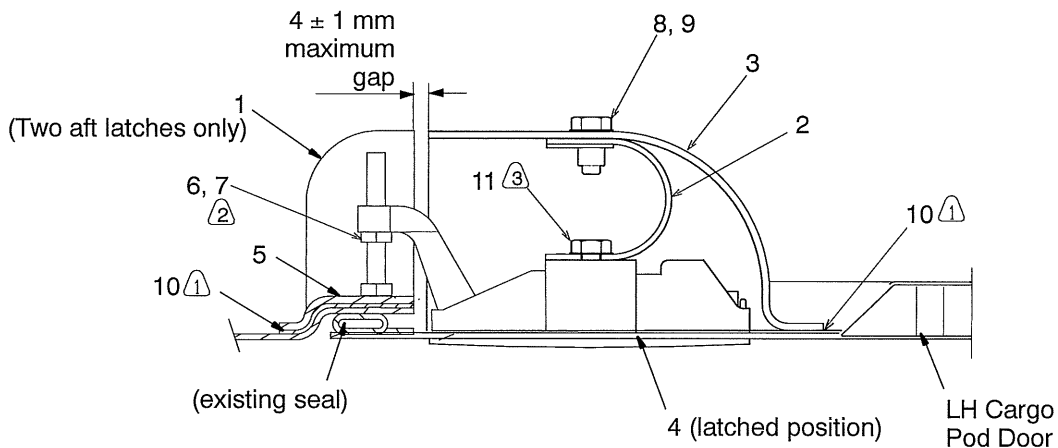
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Figure 2 Left Hand Cargo Pod Door Assembly

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Legend (for Figure 3)
Item Description

1. Fixed Cover
2. Clamp Assembly
3. Mobile Cover
4. Latch Assembly
(non-locking or locking)
5. Striker Plate
6. Latch Screw (part of latch assembly)
7. Jam Nut (part of latch assembly)
8. Screw (P/N LN9037M5X12)
9. Washer (P/N LN9016-05K)
10. Sealant (P/N PR1422-B2)
11. Thread Locking Compound (P/N Loctite 242)



SECTION B - B
 Left Hand Door Latch Assembly shown,
 (typical 3 places)

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

- ③ Apply thread locking compound (11) during installation.
- ② Adjust latch screw (6) and jam nut (7) to ensure even seal contact around perimeter of door and cargo pod flange.
- ① Apply sealant (10) between faying surfaces.

NOTES:

Figure 3 Door Latch Assembly

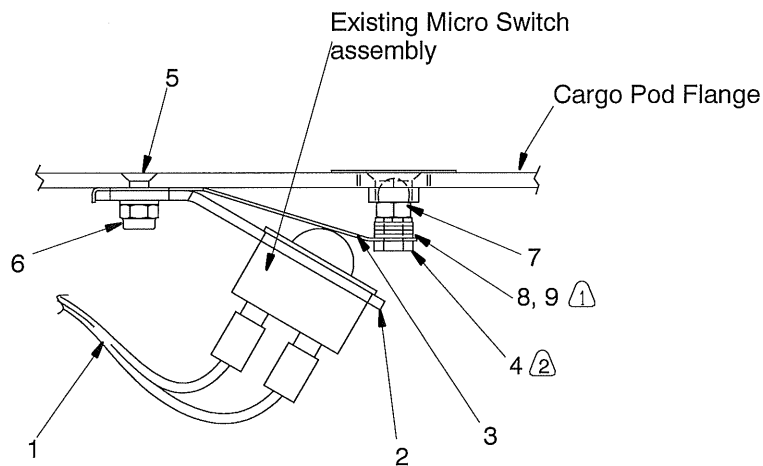
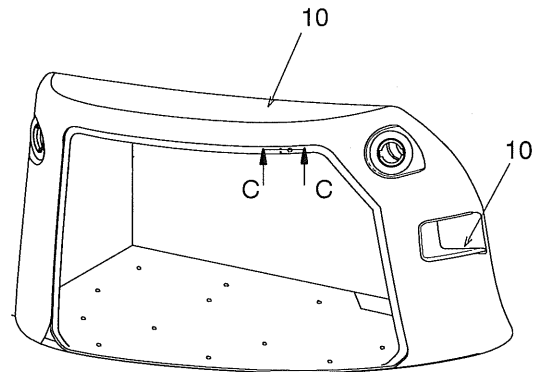
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Legend (for Figure 4)

Item Description

1. LH/RH Micro Switch Extension
2. Switch Support
3. Cargo Pod Spring
4. Screw (P/N LN9038-04008)
5. Screw (P/N LN9438-M4X12)
6. Nut (P/N 22541N040)
7. Acorn Nut (P/N DIN 1587-M4-A2)
8. Washer (P/N 23111AG040LE)
9. Lockwasher (P/N DIN127-A2-4.1)
10. Anti Slip Surface (P/N 510Black - 6")
11. Thread Locking Compound (P/N Loctite 242)



SECTION C - C

- ② Apply thread locking compound (11) to screw (4) threads once adjusted.
- ① Adjust Micro Switch assembly as required by adding or removing washers (8) to allow the instrument panel warning light to extinguish when door is closed and latched.

NOTES:

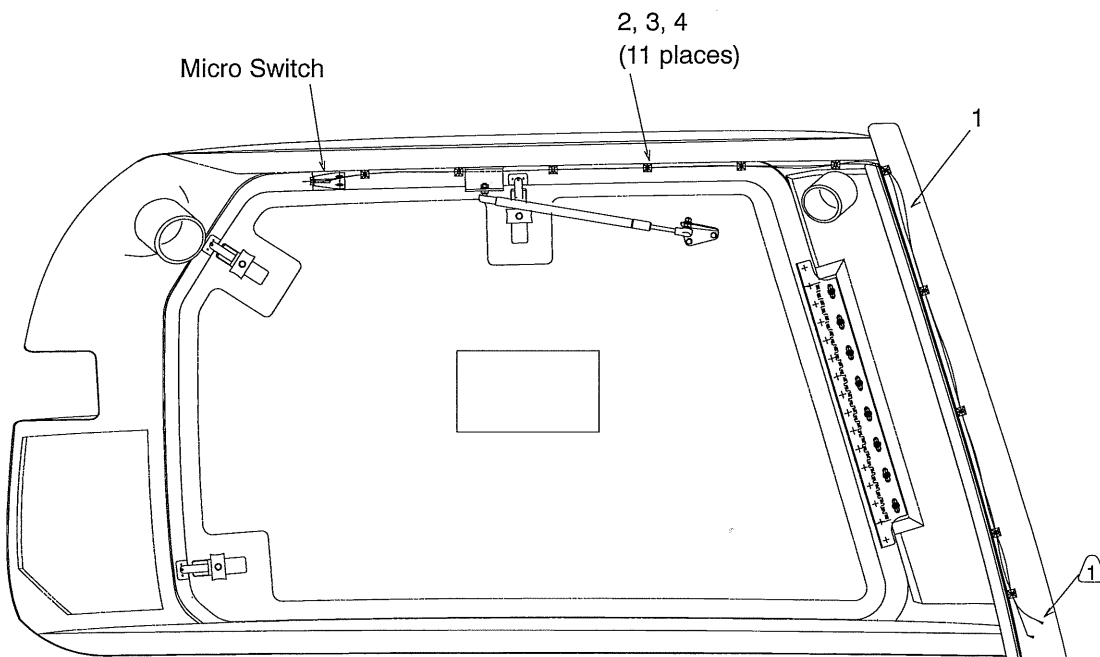
Figure 4 Door Switch Assembly

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Legend (for Figure 5)

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

① Connect to existing micro switch wires.

NOTES:

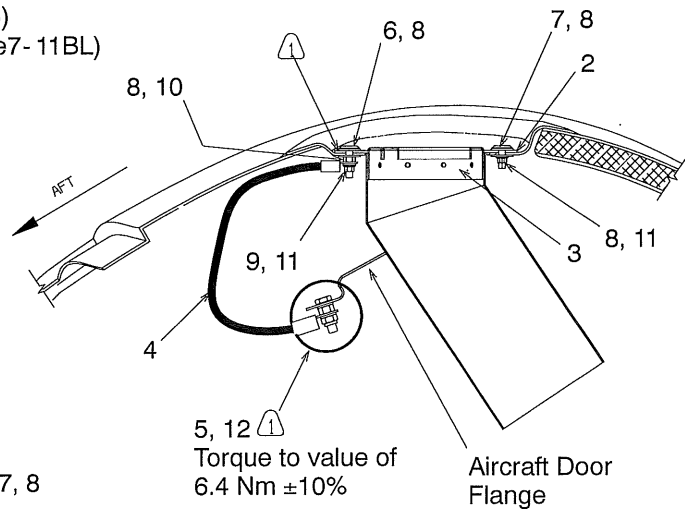
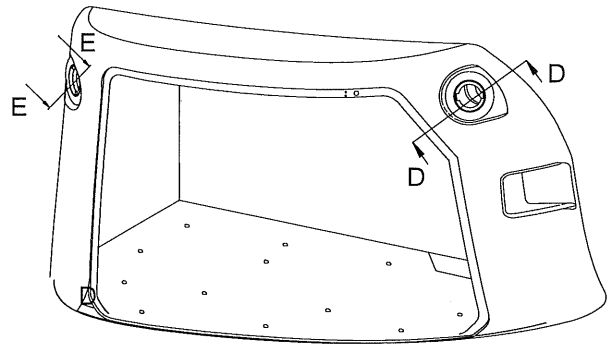
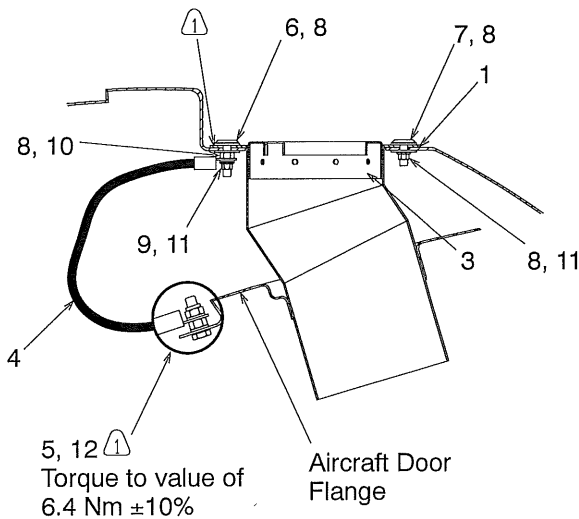
Figure 5 Micro Switch Wire Routing

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Legend (for Figure 6)

Item Description

1. Fuel Filler Adapter Assembly (Rear)
2. Fuel Filler Adapter Assembly (Forward)
3. Fuel Cap Flange
4. Bonding Jumper
5. Ground Stud Installation
6. Screw (P/N A0164TK050020X)
7. Screw (P/N A0164TK050016X)
8. Washer (P/N LN29952-0510K)
9. Spring Washer (P/N DIN13784B3C)
10. Nut (P/N LN9343-05)
11. Self-Locking Nut (P/N LN9338-05)
12. Conductive Protectant (P/N Nycote7-11BL)


 SECTION E - E
 Forward Fuel Filler

 SECTION D - D
 Rear Fuel Filler

⚠ Clean all contact areas of paint and primer and apply conductive protectant (12).

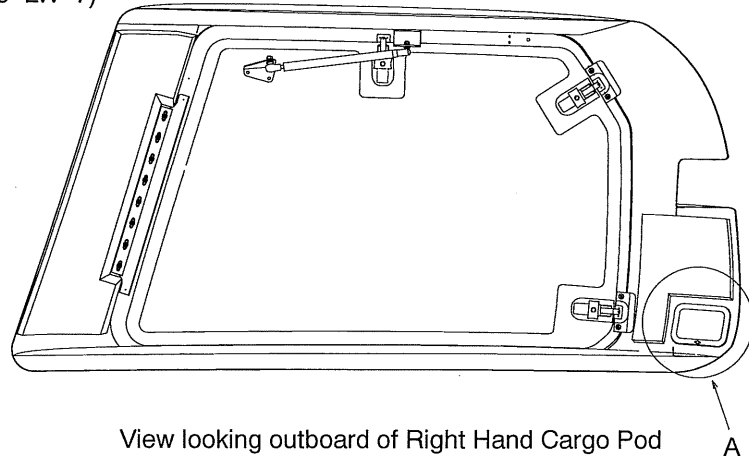
NOTES:

Figure 6 Forward and Rear Fuel Fillers

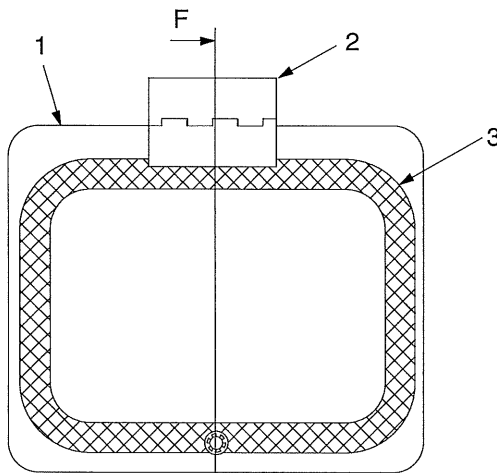
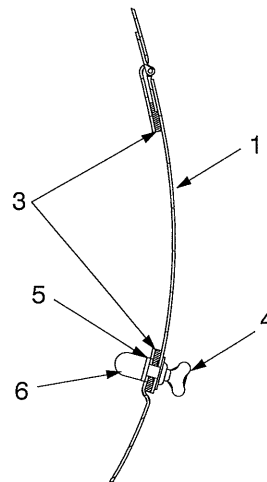
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Legend (for Figure 7)
Item Description

1. EPU Door Assembly
2. Hinge
3. Seal (P/N SC41-722-12)
4. 1/4 Turn Fastener (P/N 2600-11-SW)
5. Retaining Ring (P/N V2600-LW-7)
6. Receptacle



View looking outboard of Right Hand Cargo Pod


 VIEW A
 EPU Door


SECTION F - F

Figure 7 Right Hand Cargo Pod EPU Door

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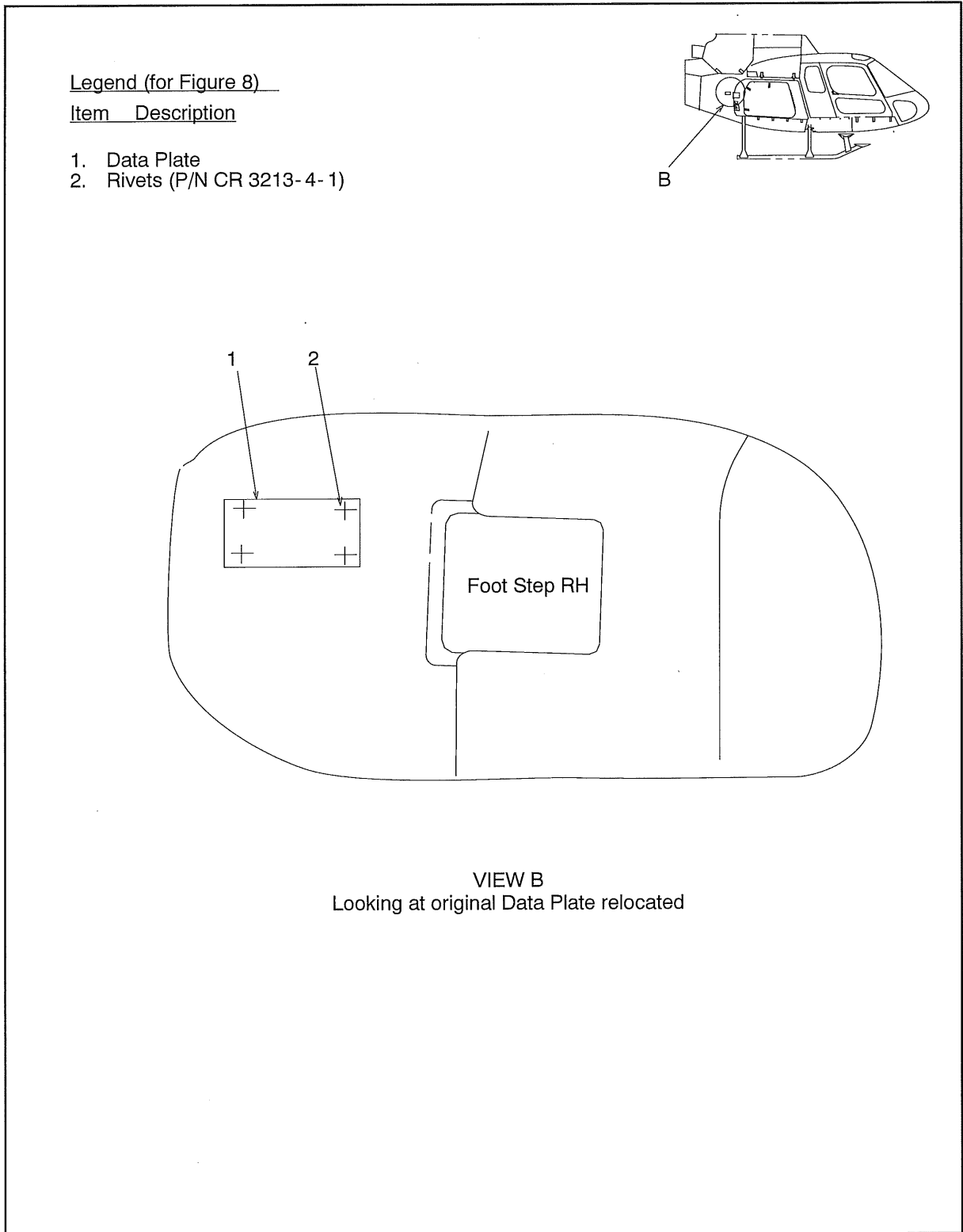


Figure 8 Data Plate Relocation

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C. REFERENCES

DOCUMENT	DOCUMENT TITLE
MET	Maintenance Manual
MTC	Standard Practices Manual
WDM	Wiring Diagram Manual

D. ABBREVIATIONS & DEFINITIONS

ABBREVIATION	DEFINITION
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
A/W	Airworthiness
CAR	Canadian Airworthiness Regulations
D	Days
DAPM	Design Approval Procedures Manual
ELT	Emergency Locator Transmitter
EPU	External Power Unit
FAA	Federal Aviation Administration
FH	Flight Hours
FT	Feet
IMP	Imperial
KG	Kilogram
LH	Left Hand
M	Months
No.	Number
OEM	Original Equipment Manufacturer
P/N	Part Number
ref.	reference
Rev.	revision
RH	Right Hand
SQ	Square
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Authority
V.d.c.	Volts direct current
WD	Wiring Diagram

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AIRBUS HELICOPTERS CANADA LIMITED**E. UNITS OF MEASUREMENT**

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
kg	kilogram
lb	pound
m	meter
mm	millimeters
in	inch
Nm	Newton Meters

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2. AIRWORTHINESS LIMITATIONS

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

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

The airworthiness limitations section is approved and variations must also be approved.

No airworthiness limitations associated with this installation.

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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 in accordance with MTC, Chapter 20-05-01-206.
D	<ul style="list-style-type: none"> - Check LH and RH door hinges, shown in Figure 2 for: <ul style="list-style-type: none"> a. security 	<ul style="list-style-type: none"> a. Re-tighten screws (6) as required.
E	<ul style="list-style-type: none"> - Visually inspect left hand and right hand strut assemblies (3) shown 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 open position, contact AHCA for replacement part.

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
F	- Visually inspect sealant (10) around backing plate assembly (4), shown in Figure 2 for: a. deterioration	a. Clean area and reapply sealant (10) in accordance with MTC, Chapter 20-05-01-206.
G	- Perform functional test of locking latch assembly (5) (locking) shown in Figure 2 for: a. proper locking function	a. Clean and lubricate to restore proper locking function.
H	- Test LH and RH door latches, item 4, shown in Figure 3 for: a. freedom of movement b. proper latching	a. Clean and lubricate to restore freedom of movement. b. Adjust the latch screw (6) and jam nut (7) as required to ensure even seal contact around perimeter of door and cargo pod flange. Refer to Flag NOTE 2.
I	- Visually inspect sealant (10), around fixed cover (1), and mobile cover (3), shown in Figure 3 for: a. deterioration/damage	a. Clean area and reapply sealant (10), to faying surfaces in accordance with MTC, Chapter 20-05-01-206. Refer to Flag NOTE 1.
J	- Visually inspect anti slip surface, (10), on maintenance step and upper surface of cargo pod shown in Figure 4 for: a. general condition	a. If anti slip surface (10) appears worn in areas, remove remaining surface and clean area. Install new anti slip surface (10), trim to fit upon installation.

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
K	- Check harness attachment to switches shown in Figure 5 for: a. security	a. Secure as required.
L	- Visually inspect bonding jumper, item 4, shown in Figure 6 for: a. security b. cracking and kinking	a. If bonding jumper has become loose, clean contact area of all paint and primer. Re-tighten as required. Apply conductive protectant (12). Refer to Flag NOTE 1. b. No cracking is allowed. If kinking is found, adjust as required. Contact AHCA for replacement parts if cracking found.
M	- Check ground stud installation (5), shown in Figure 6 for: a. security	a. If ground stud has become loose, clean contact area of all paint and primer. Torque to value of 6.4 Nm $\pm 10\%$. Apply conductive protectant, (12). Refer to Flag NOTE 1.
N	- Check the Fuel Filler Adapter Assembly both Forward and Rear, (1 and 2), shown in Figure 6 for: a. security	a. Re-tighten as required.
O	- Visually inspect seal (3), between right hand cargo pod and EPU door in Figure 7 for: a. debonding, cuts or cracking or loss of elasticity b. security	a. If debonding, cuts or cracks or loss of elasticity are evident, contact AHCA for replacement seal (3). Trim as required to seal around door. Bond using adhesive backing in accordance with MTC, Chapter 20-03-04-406. 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
P	- Visually inspect data plate shown in Figure 8 for: a. security b. corrosion	a. Secure as required. b. If corrosion is found, clean in accordance with MTC, Chapter 20-04-03-401.
Q	- Visually inspect placards and markings (refer to Section 10), for: a. legibility b. secure mounting	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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5. REPLACEMENT COMPONENTS AND REPAIR / OVERHAUL INFORMATION

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

For replacement components or repair information contact:

Airbus Helicopters Canada Limited
 1100 Gilmore Road, P.O. Box 250
 Fort Erie, Ontario L2A 5M9 Canada
 Telephone: (905) 871- 7772

www.airbushelicopters.ca

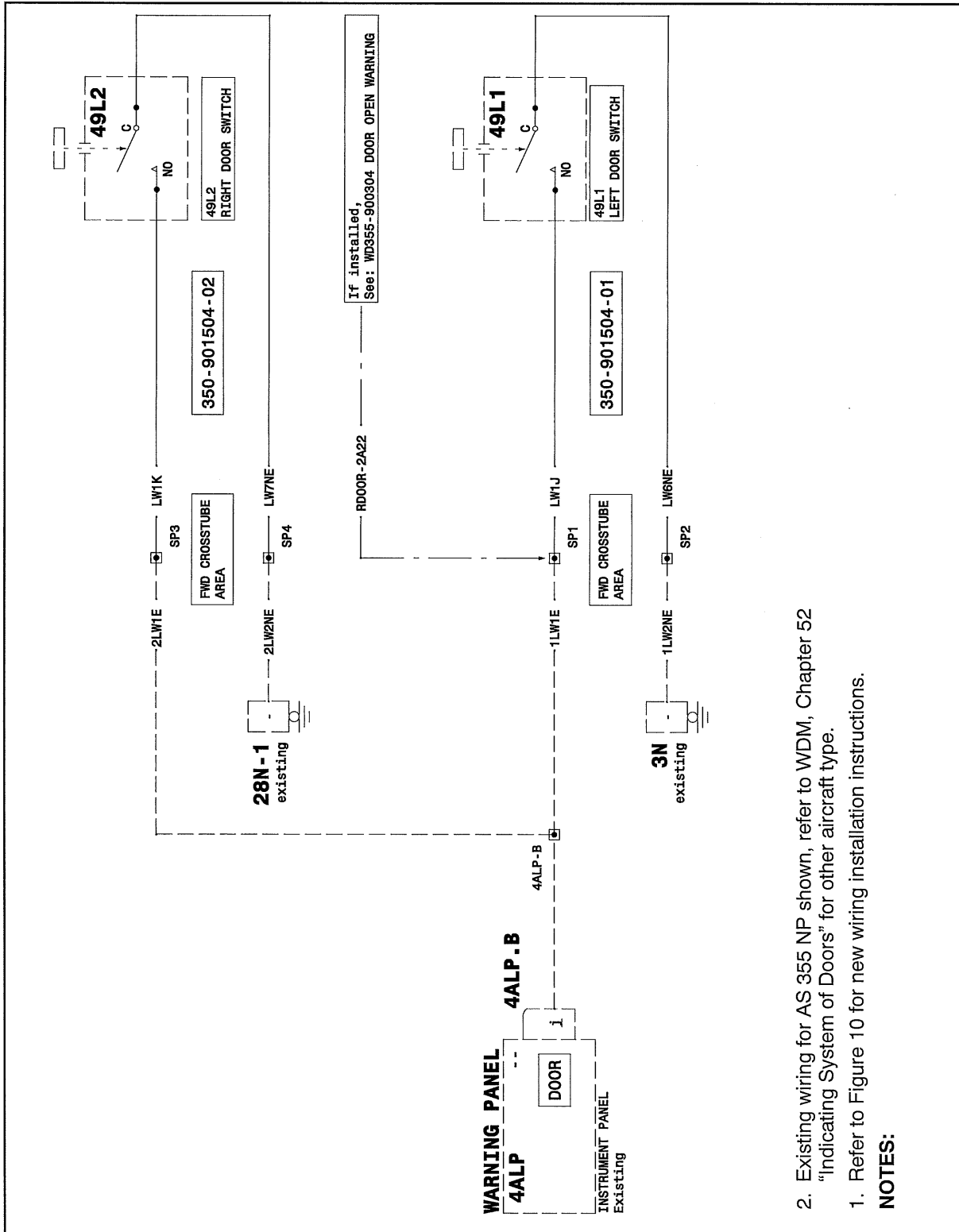
6. TROUBLESHOOTING

For electrical system troubleshooting refer to Figure 9 Cargo Pods Installation, Wiring Diagram and Figure 10 LH and RH Micro Switch Wire Routing, Wiring Diagram.

No.	Trouble Symptom	Probable Cause	Corrective Action
1	"DOOR" annunciator light remains ON when door is closed and latched.	Re- adjust micro switch	Add or remove washers (8) to allow the instrument warning light to extinguish. Refer to Figure 4, Flag NOTE 1.
2	"DOOR" annunciator light fails to come ON when door is open.	Failure with Cargo Pod door indicating system Faulty switch	Adjust micro switch installation as required. Refer to Figure 4, Flag NOTES 1 & 2. Replace switch (P/N 2- 5445), make adjustments as per Figure 4, Flag NOTES 1 & 2. Verify operation in accordance with Section 8. B. REPLACEMENT 5.

Table 2 Troubleshooting Guide

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2. Existing wiring for AS 355 NP shown, refer to WDM, Chapter 52 "Indicating System of Doors" for other aircraft type.
1. Refer to Figure 10 for new wiring installation instructions.

NOTES:

Figure 9 LH and RH, Cargo Pod Installation, Wiring Diagram

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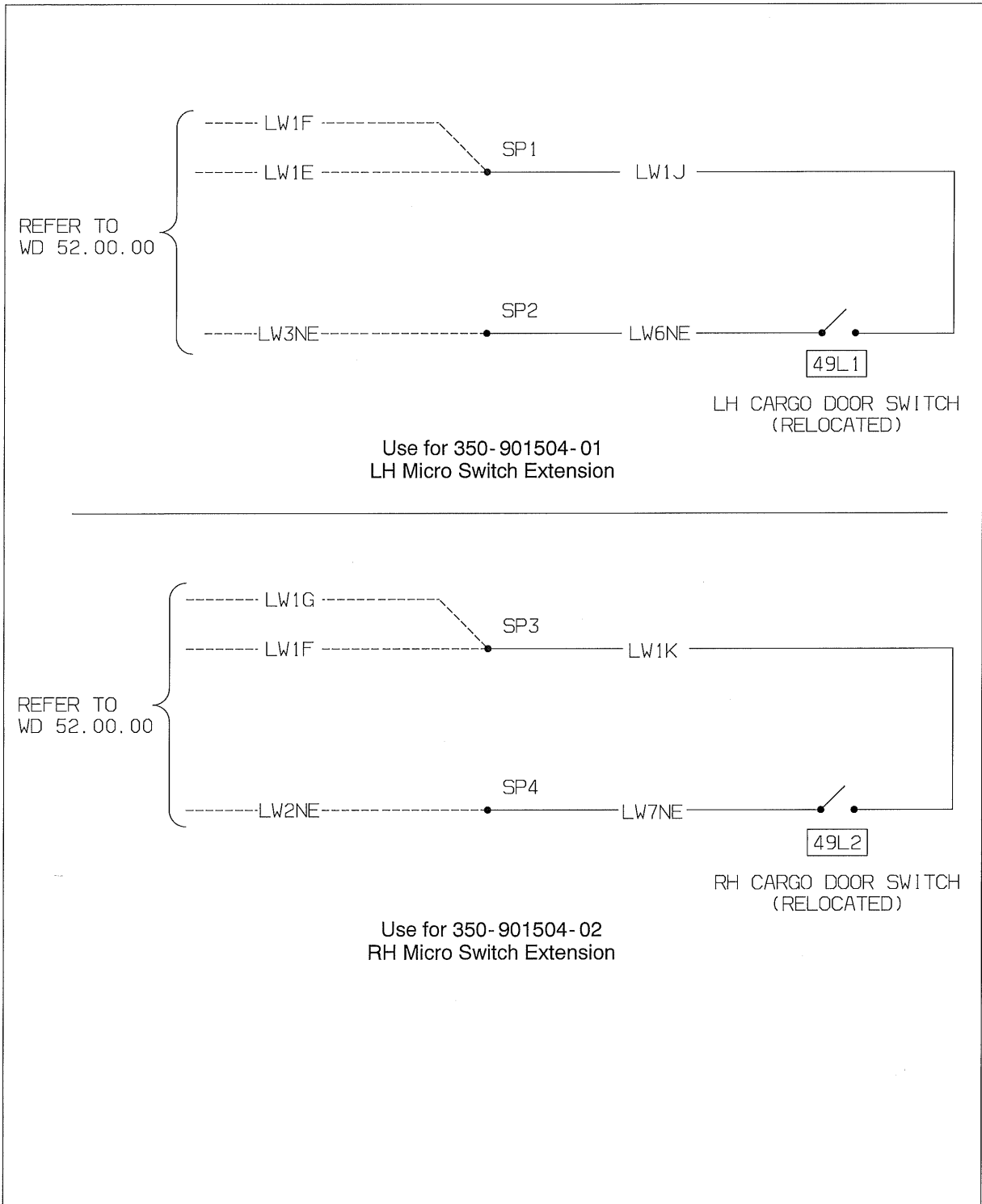


Figure 10 LH and RH Micro Switch Wire Routing, Wiring Diagram

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AIRBUS HELICOPTERS CANADA LIMITED**7. SPECIAL TOOLING**

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

8. REMOVAL AND REPLACEMENT

PRELIMINARIES

- Read and comply with General - Electrical Power System, AS 355 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 355 MET, Chapter 24.00.00.301 (if applicable).
- Disconnect the battery in accordance with AS 355 MET, Chapter 24-30-00-401.
- Open and secure applicable circuit breakers/fuses associated with the LH/RH Cargo Pods Installation.

A. REMOVAL

1. CARGO POD (Refer to Figure 1)
 - a) Cargo Pod Installation is a permanent installation.
2. CARGO POD DOOR (Refer to Figure 2)
 - a) With the cargo pod door open, disconnect strut assembly (3) from the door by removing ball stud (9), self-locking nut (8) and washer (7) from strut attachment bracket (2).
 - b) Close and latch door. Remove screws (6, 8 places) from the door hinge. Refer to SECTION A - A.
 - c) Carefully open the door latches and lift out door.
 - d) Retain all hardware for re-installation.
3. DOOR LATCH ASSEMBLIES (Non-Locking or Locking, Refer to Figure 3)
 - a) Remove sealant (11) from around edge of door latch assemblies (4, 3 places).
 - b) With the cargo pod door open (or on a work bench) position the door latch assemblies (4) in the unlatched position. Refer to SECTION B - B.
 - c) Remove screw (8) and washer (9) securing mobile cover (3).
 - d) Remove bolt securing clamp assembly (2) and remove latch assembly (4).
 - e) Retain all hardware for re-installation.
4. CARGO POD 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.
 - c) Remove screws (5, 2 places) and nuts (6, 2 places) that secure switch support (2).
 - d) Retain hardware for re-installation.
 - e) Remove the cargo pod door/micro switch from switch support (2).

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AIRBUS HELICOPTERS CANADA LIMITED**8. REMOVAL AND REPLACEMENT (continued)****B. REPLACEMENT**

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

References:

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

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

1. CARGO POD DOOR (Refer to Figures 2 and 3)
 - a) Position the cargo pod door into the pod. Once correctly aligned secure the door hinge using screws (6, 8 places) while continually checking alignment. Refer to SECTION A - A in Figure 2.
 - b) Close and latch cargo pod door to confirm alignment.
 - c) Open door and secure strut assembly (3) to the strut attachment bracket (2) using ball stud (9), washer (7) and self-locking nut (8).
 - d) Adjust latch screw (7) and jamnut (8) to ensure even seal contact around the perimeter of the door and the cargo pod flange. Refer to Flag NOTE 2 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 (4) (non-locking, 2 places and locking, 1 place) in the latch cutouts in cargo pod door assembly. Refer to Figure 2 for the locking latch assembly location.
 - b) Align latch assembly (4) and clamp assembly (2) and secure using bolt. Apply thread locking compound (12) to bolt during installation. Refer to Flag NOTE 3.
 - c) Secure mobile cover (3) using screw (8) and washer (9).
- NOTE:** Apply sealant (10) between faying surfaces in accordance with General Application of sealing Compounds, refer to MTC, Chapter 20-05-01-206. Refer to Flag NOTE 1.
3. CARGO POD DOOR SWITCH (Refer to Figures 4 & 5)
 - a) Reposition cargo pod door/micro switch on switch support (2). Refer to Figure 4.
 - b) With door open secure cargo pod door/micro switch, switch support (2) and spring (3) to pod using screw (5) and nut (6).
 - c) Connect micro switch wire routing LH/RH (1). Refer to Flag NOTE 1 in Figure 5.
 - d) With power ON and door closed and latched, ensure "DOOR" annunciator light is OFF. Make adjustments by adding or removing washers (8). Refer to Flag NOTE 1 in Figure 4.
 - e) Once adjusted, apply thread locking compound (11) to screw (4). Refer to Flag NOTE 2 in Figure 4.

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8. REMOVAL AND REPLACEMENT (continued)

4. Close all circuit breakers/fuses opened for service in the PRELIMINARIES paragraph of this section.

5. Reconnect battery, AS 355 MET, Chapter 24-30-00-401.

Reconnect external power unit, AS 355 MET, Chapter 24.00.00.301 (if applicable).

Reference functional test - DC Power System in accordance with AS 355 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.

6. Perform operational check of all systems that were serviced in accordance with the AS 355 MET 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 LH Cargo Door	- 3.96	- 8.7	3.55	139.8	- 14.06	- 1216.3
OEM RH Cargo Door	- 3.96	- 8.7	3.55	139.4	- 14.06	- 1212.8
Total	- 7.92	- 17.4	3.55	139.8	- 28.12	- 2432.5

B. Added Items

DESCRIPTION	WEIGHT		LONGITUDINAL ARM		LONGITUDINAL- MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Cargo Pod (355- 200814)	20.34	44.8	3.55	139.8	72.21	6263.0
RH Cargo Pod (355- 200824)	19.75	42.9	3.55	139.8	69.05	5997.4
Total	39.79	87.7	3.55	139.8	142.08	12260.5

Transport Canada - Accepted

9. WEIGHT AND BALANCE DATA (continued)

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 LH Cargo Door	-3.96	-8.7	-0.77	-30.3	3.05	263.6
Total	-3.96	-8.7	-0.77	-30.3	3.05	263.6

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
LH Cargo Pod (355-200814)	20.34	44.8	-0.85	-33.5	-17.29	-1500.8
Total	20.34	44.8	-0.85	-33.5	-17.29	-1500.8

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 RH Cargo Door	-3.96	-8.7	0.77	30.3	-3.05	-263.6
Total	-3.96	-8.7	0.77	30.3	-3.05	-263.6

B. Added Items

DESCRIPTION	WEIGHT		LATERAL ARM		LATERAL MOMENT	
	kg	lbs	m	in	kg m	lb in
RH Cargo Pod (355-200824)	19.45	42.9	0.85	33.5	16.53	1437.2
Total	19.45	42.9	0.85	33.5	16.53	1437.2

Transport Canada - Accepted

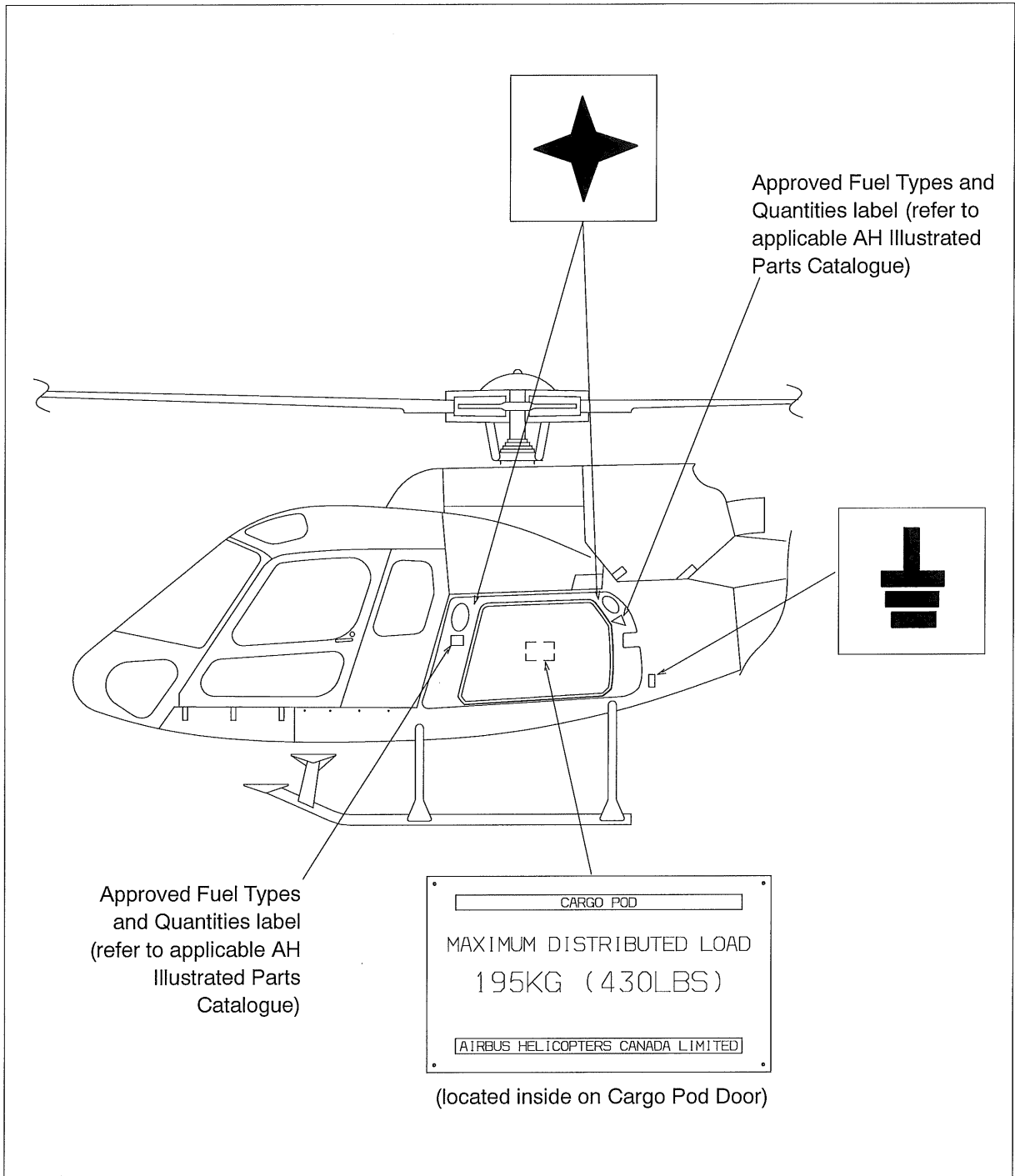
AIRBUS HELICOPTERS CANADA LIMITED
10. PLACARDS AND MARKINGS


Figure 11 Markings located on LH Cargo Pod

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10. PLACARDS AND MARKINGS (continued)

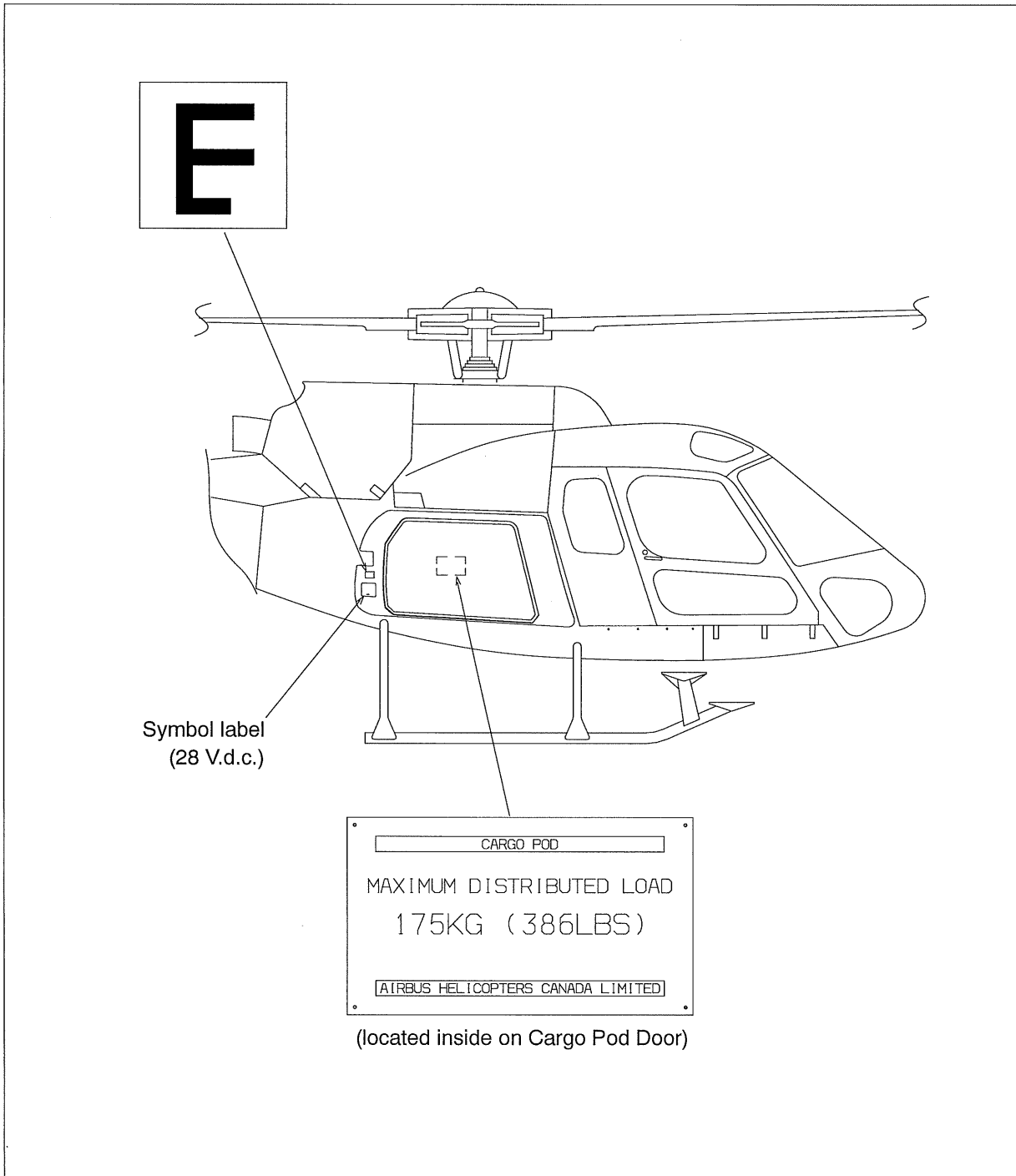


Figure 12 Markings located on RH Cargo Pod

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