



SUBJECT:

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR
ELECTRICAL POWER SUPPLY FOR OPTIONAL 50
AMP/LOGLINE/CAROUSEL SYSTEMS (P/N 350-900564)**

APPLICABILITY:

Aircraft with the subject modification embodied in accordance with
TCCA STC No. SH14-10 or any applicable foreign validation 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 MMS 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.

This 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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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
ELECTRICAL POWER SUPPLY FOR OPTIONAL
50 AMP/LOGLINE/CAROUSEL SYSTEMS
AS 350 B2/B3**

AIRBUS HELICOPTERS CANADA LIMITED

RECORD OF REVISIONS

Rev.	Pages at this Revision	Description, Reason Changed Pages	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 31	Original issue.	D. Kerr 20 March 2014	C. Timmins 20 March 2014	N/A	P. Sharpe 24 March 2014
1	1 through 31	Revision to NOTE in Section 4.1.1. (Page 17)	D. Kerr 8 September 2004	C. Timmins 8 September 2004	TCCA E. Cheung 8 September 2004	R. Manson 8 September 2004
2	1 through 33	Document title revised. Figure 1 revised. New figure showing Pilot's Collective Lever added for reference. Torquing reference added to Figure 10. (Pages 3 to 25, 27 to 29 and 31 to 33)	D. Kerr 27 February 2015	C. Timmins 27 February 2015	N/A	P. Garafalo 17 April 2015
3	1 through 43	Addition of optional momentary switch on the Pilot's Collective Lever. Additional operating instructions added to Section 3. Incorporated all revision levels of wiring diagrams to Section 6. (Pages 3 to 16, 18, 19, 21, 22 to 38, 40 & 43)	D. Kerr 28 April 2015	C. Timmins 28 April 2015	TCCA G. David 29 April 2015	P. Garafalo 29 April 2015
4	1 through 39	Introduction of Step 3. Addition of new Cyclic Carousel switch. Variant -05 introduced which relocates the belly connector aft of FWD Fuel Tank Saddle for A/C embodying MOD 07.20034 CRFS. Introduction of new Onboard Loadmeter Model C40. Wiring diagrams removed. Addition of Weight and Balance Chart for -05 Variant. (Pages 5 to 9, 11 to 20, 23 to 33 & 34 to 39)	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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1 GENERAL

- A. The Electrical Power Supply for Optional 50 AMP/Longline/Carousel Systems provides electrical power for optional equipment. Refer to Figure 1 for General Layout.

Arming switches are located adjacent to the loadmeter, on the RH side corner of the windshield. For the Left Side Pilot Configuration (STC SH96-32), the switches are located on the LH side accordingly.

If the loadmeter indicator has been relocated to the floor window area (STC SH06-12), the longline arming switches are located on the instrument panel (position may vary depending on other optional equipment installed). Refer to Figure 1.

A longline release or 50 AMP power relay pushbutton is located on the pilot's cyclic grip. Refer to Figure 2.

An optional Carousel Release pushbutton can be installed on pilot's cyclic grip. Refer to Figure 2.

An alternative longline release or 50 AMP power relay guarded pushbutton might be installed on the collective lever as an option. Refer to Figure 3.

As an option, the carousel system might be installed to be Bambi MAX bucket compatible. Refer to Figure 5.

The available installations for the 50AMP/Longline/Carousel Systems are as follows:

COMPONENT	DRAWING	STATUS
Main Harness	350-900564-01	- LEGACY
Main Harness	350-900564-05	- REQUIRED
Vivisun Switches	350-900564-02	- REQUIRED
Cyclic Carousel Switch OR Carousel System Modification (See NOTE below)	350-900564-03 OR 350-900714	- OPTIONAL
LH Pilot Extension (See STC SH96-32)	350-900564-04	- OPTIONAL
Pilot Collective Control	350-900704	- OPTIONAL

NOTE: Carousel System Modification drawing number 350-900714 is optional and will replace the 350-900564 -03 Option. If installed, the Carousel Circuit is constantly powered when the longline carousel armed Switch is selected and "ARMED" lights up.

The 50 AMP/Longline/Carousel Systems consists of the following main components:

Fixed Provisions

- Switch Housing Assembly
- Connector Bracket
- Loadmeter Housing

Detachable Provisions

- 50 AMP/Longline/ Carousel Control Box Assembly
- Control Box Base
- Bonding Jumper

With this revision, the subject installation is made compatible with the CRFS by positioning the belly connectors on the inboard side of the RH keel beam (mirroring the CRFS cargo swing electrical connector). Refer to Figure 8. This revision also introduces a new housing for the latest Onboard Systems C40 loadmeter. Refer to Figure 7.

For instructions for initial installation, see IP-AHCA-133.

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

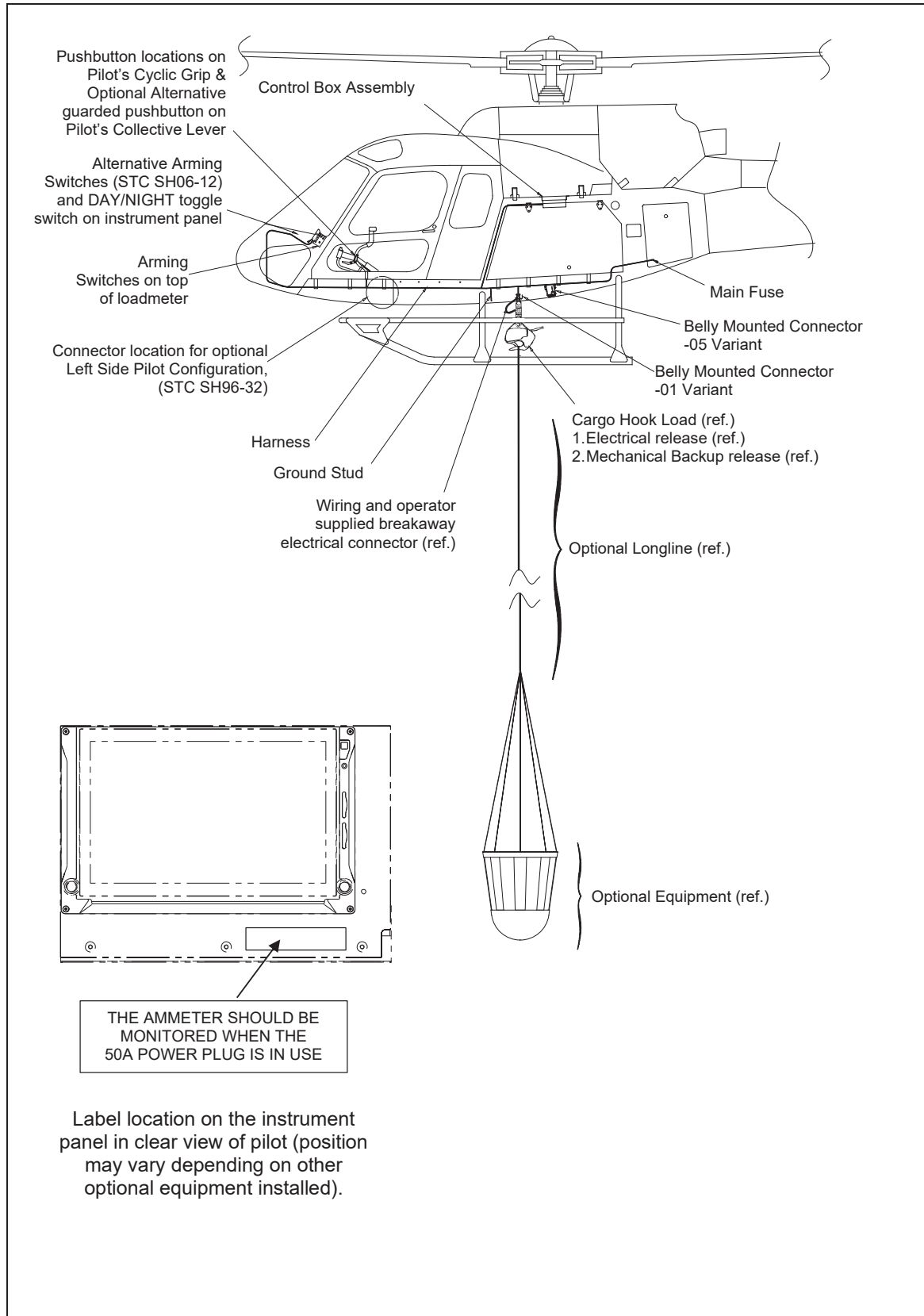


Figure 1 General Layout

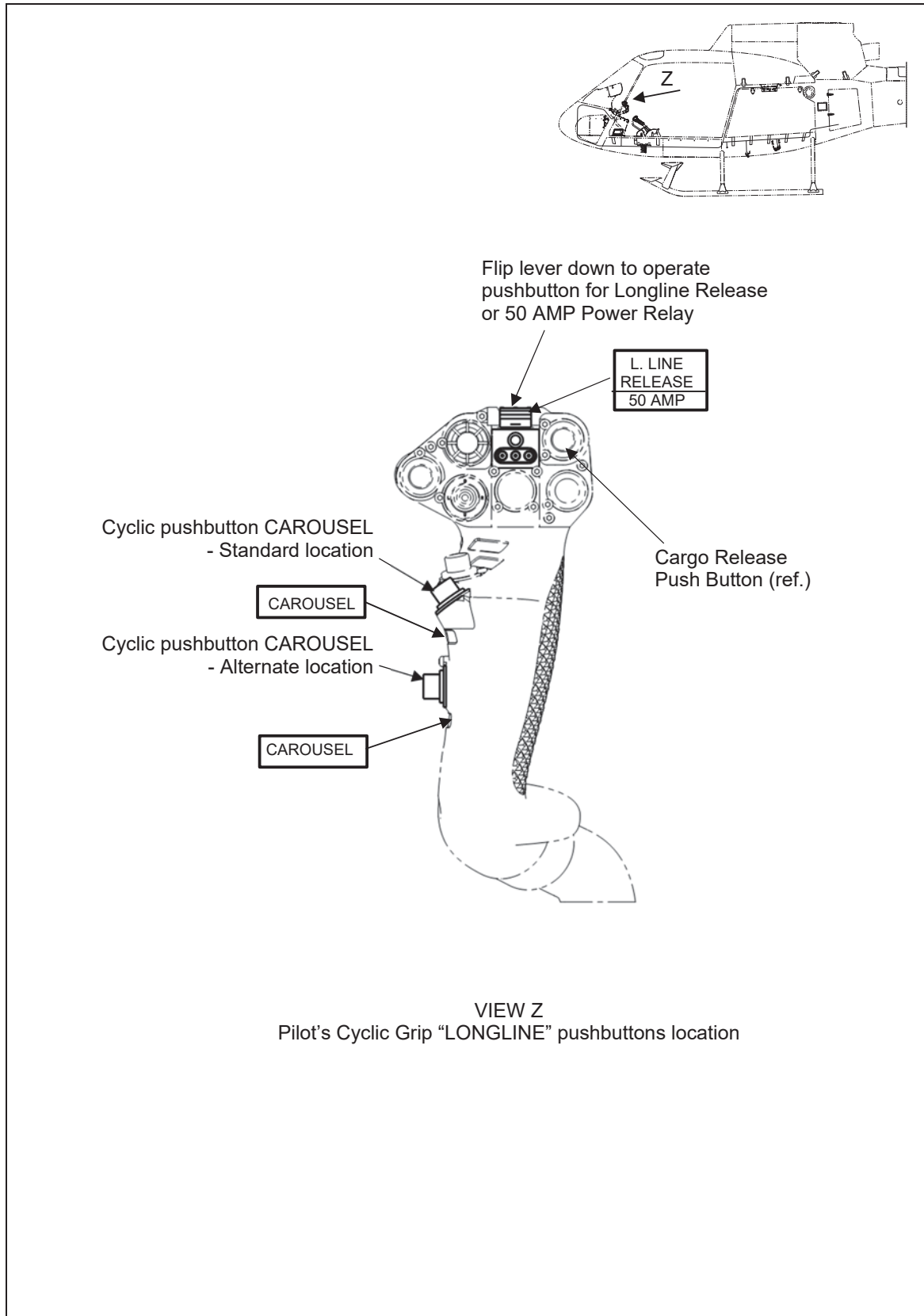


Figure 2 Pilot's Cyclic Stick Grip

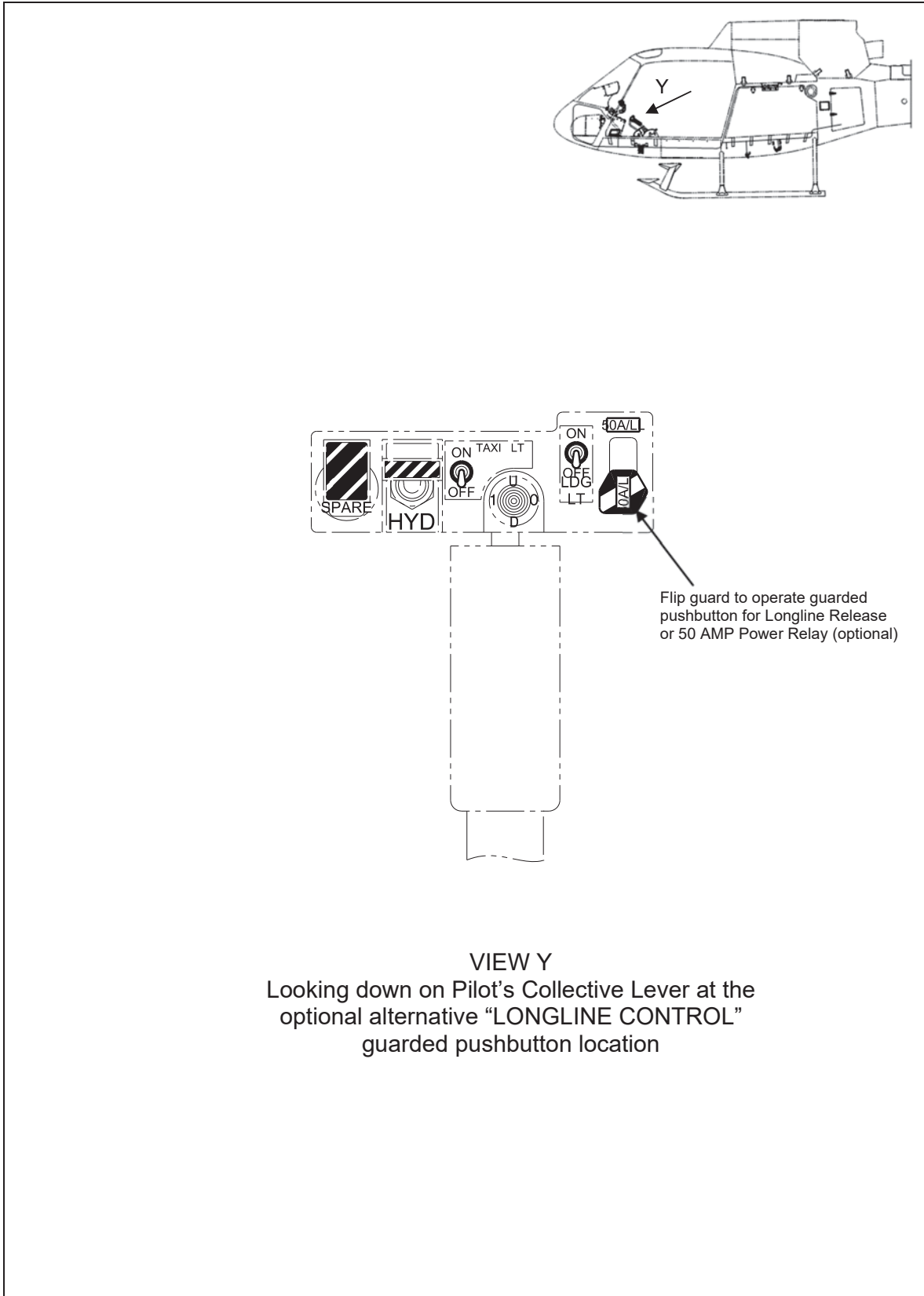


Figure 3 Optional Alternative guarded pushbutton location - Pilot's Collective Lever

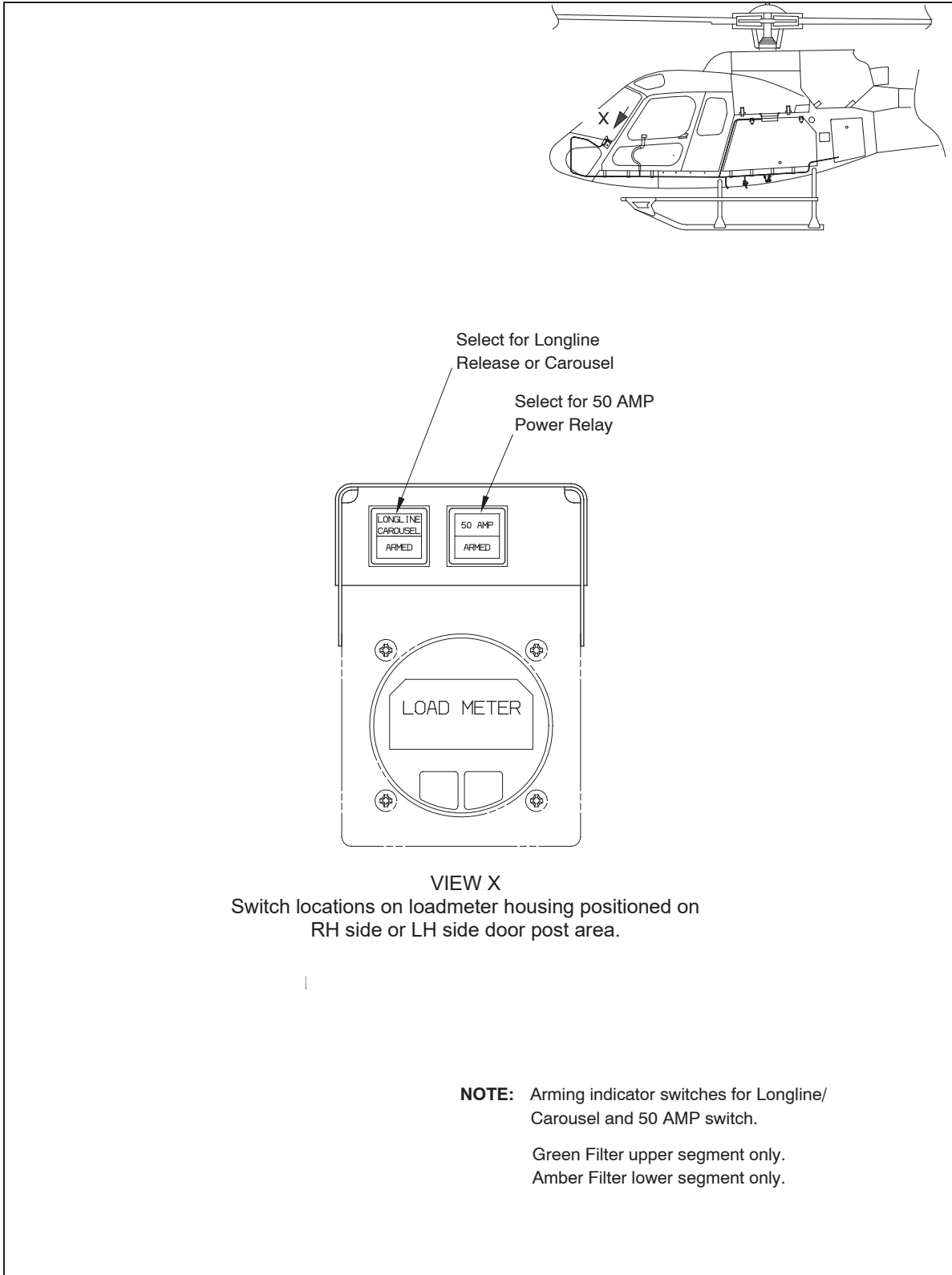


Figure 4 Switch Housing Assembly Installation

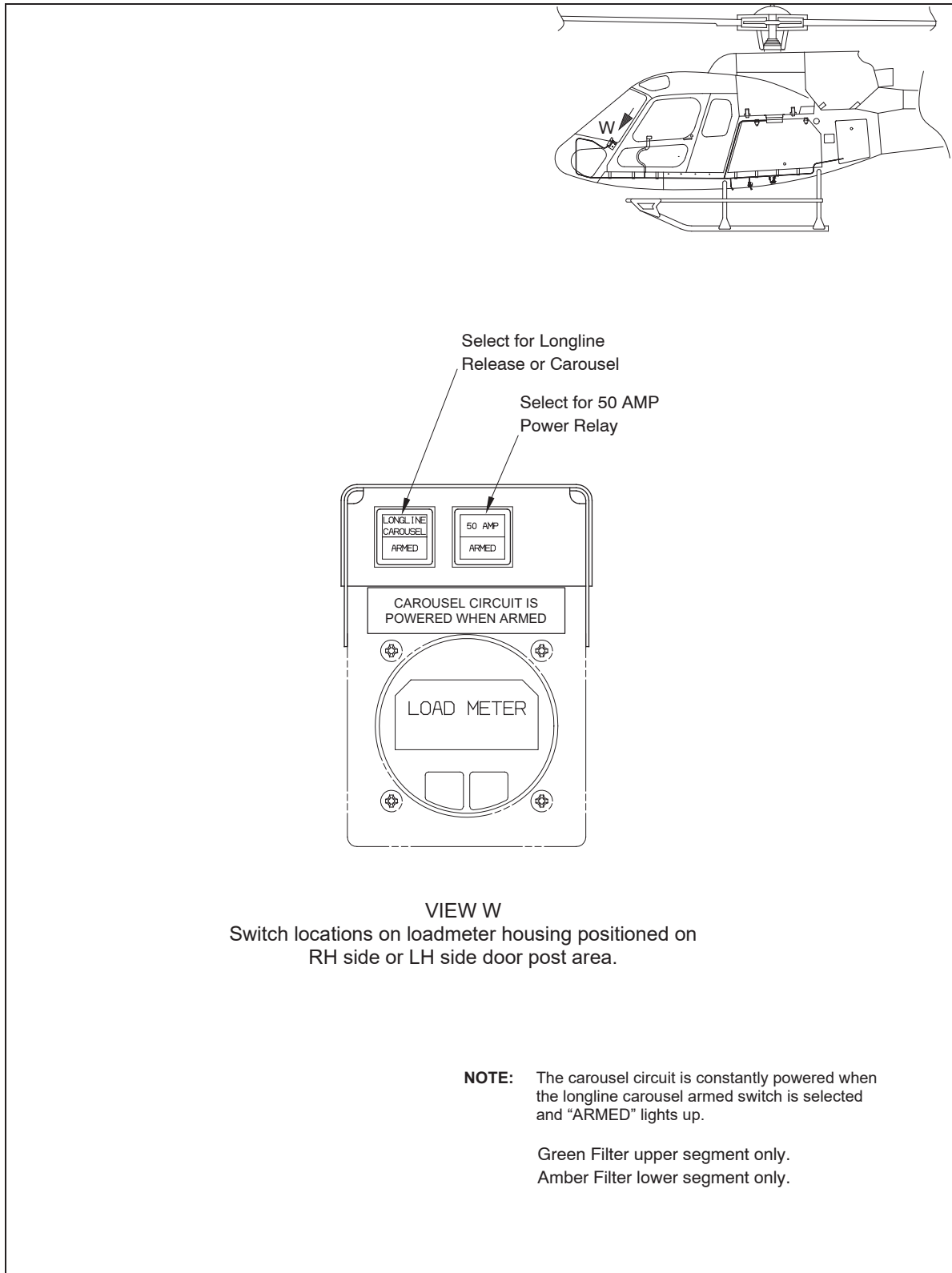


Figure 5 Switch Housing Assembly Installation with Carousel System Modification

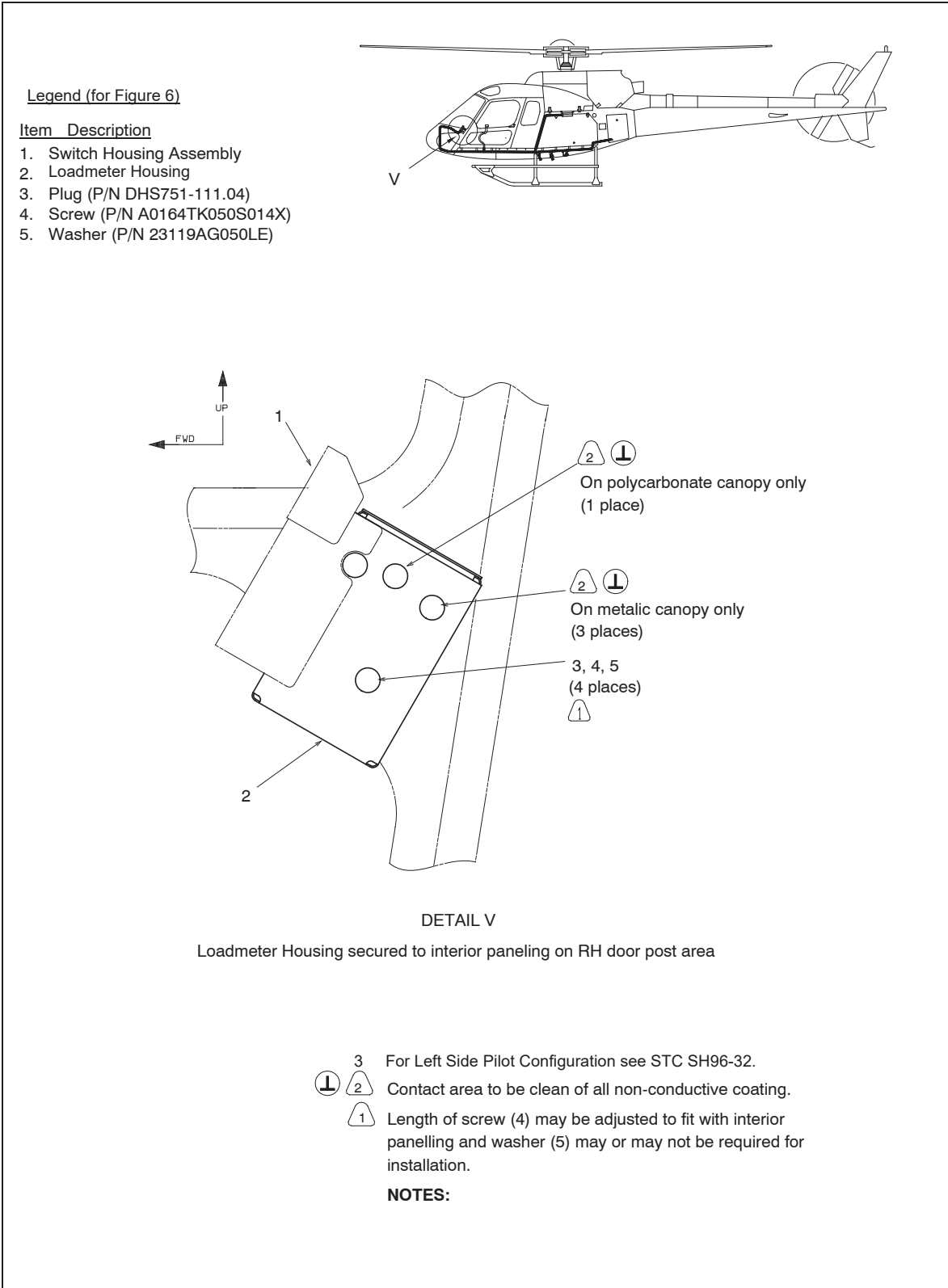


Figure 6 Onboard Loadmeter housing with 50 AMP Longline (legacy installation)

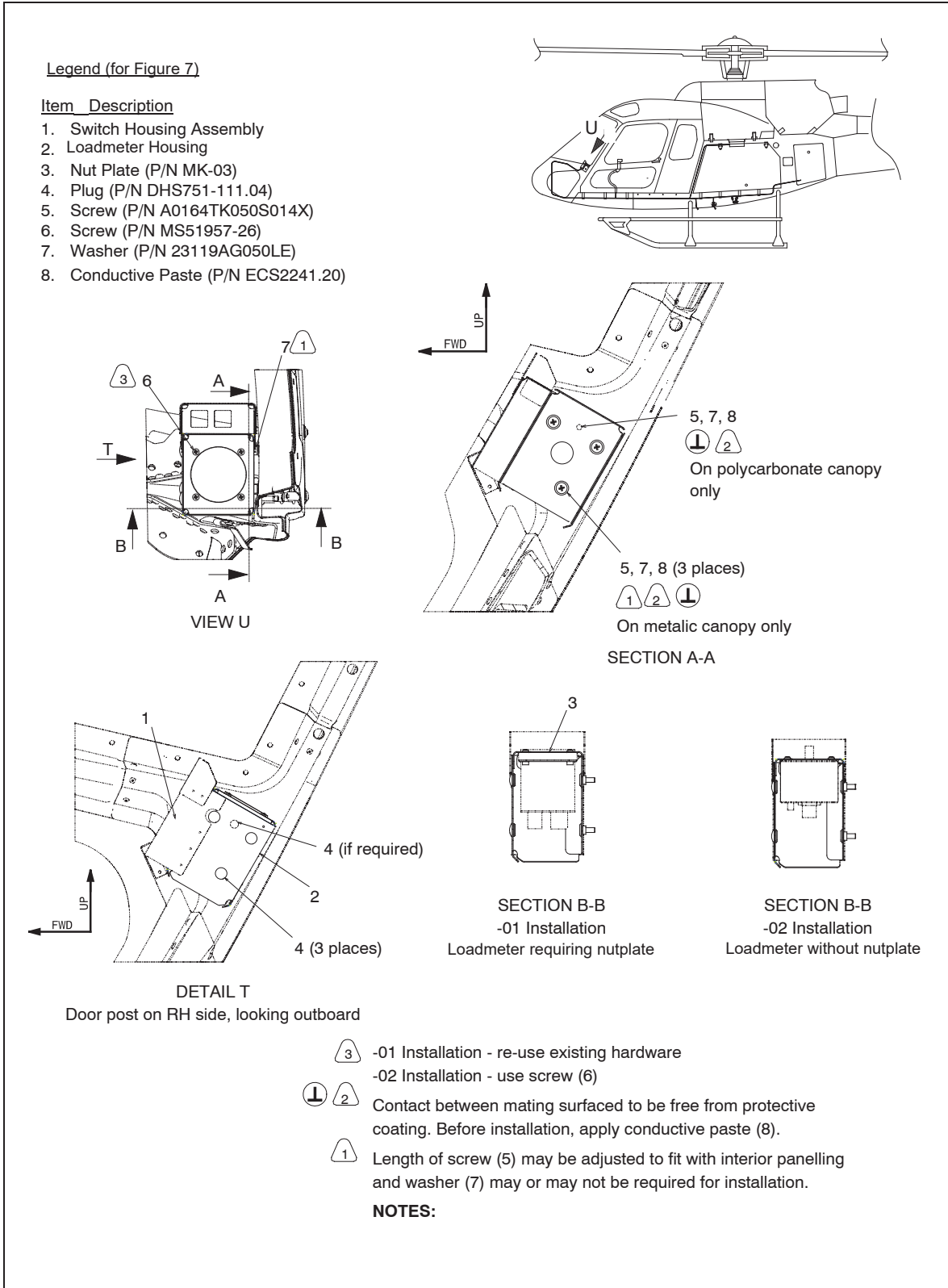


Figure 7 Onboard loadmeter installation with 50 AMP/Longline

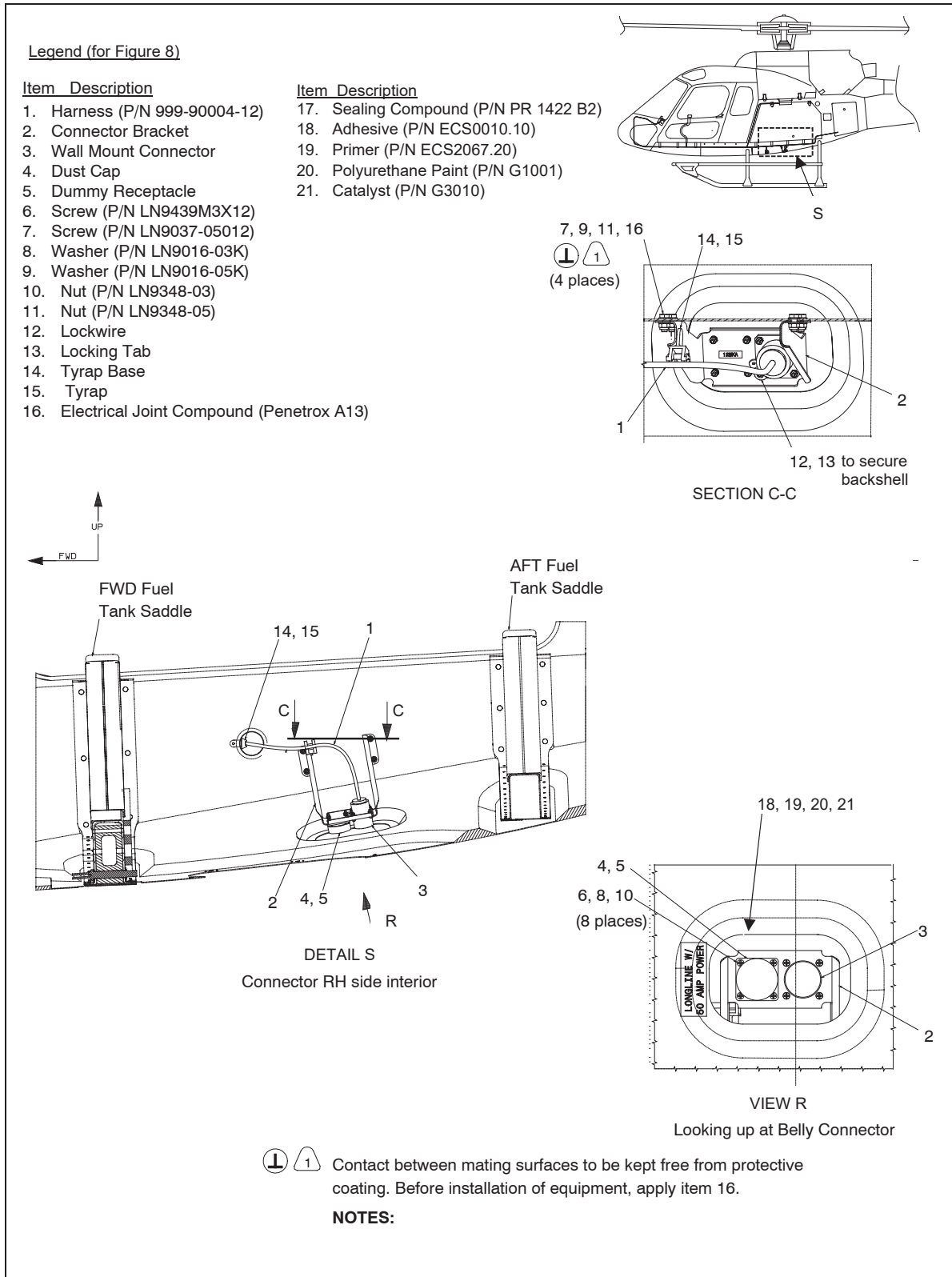
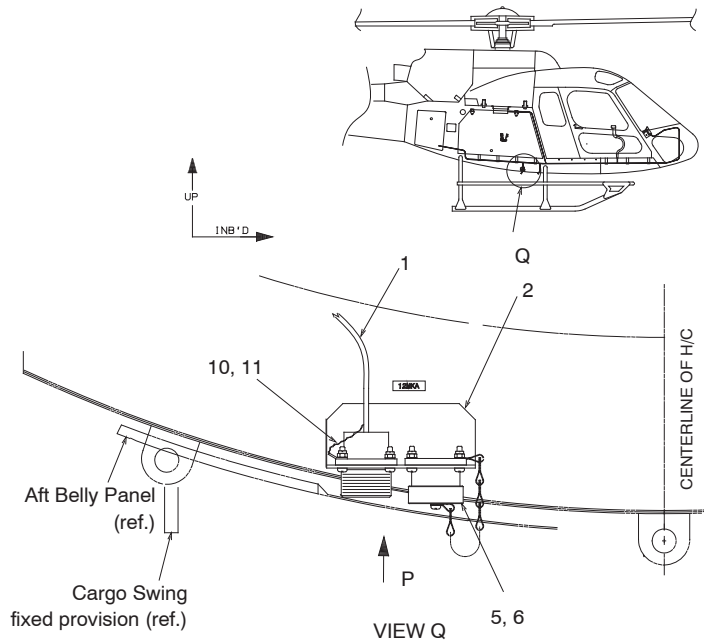


Figure 8 50 AMP/Longline/Power System Belly Connector – 05 variant only

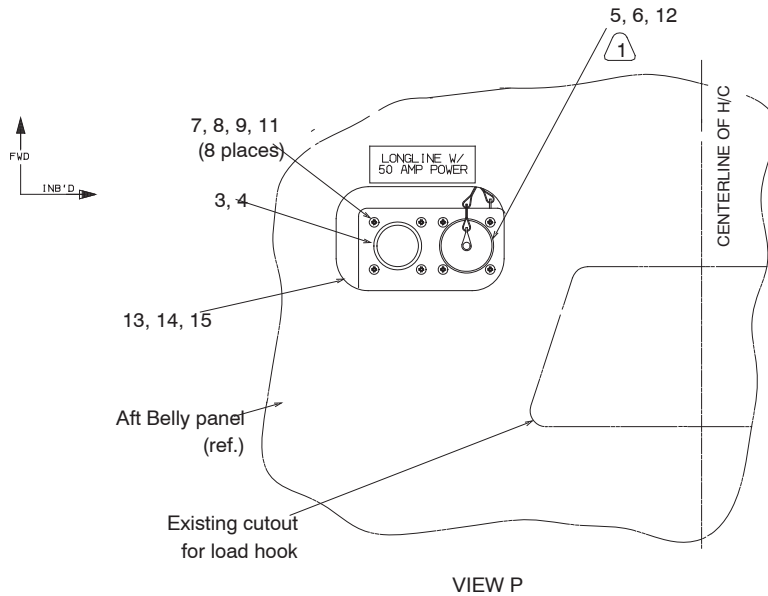
Legend (for Figure 9)

Item Description

1. Harness (P/N 999-900004-07)
2. Connector Bracket
3. Wall Mount Connector
4. Straight Backshell
5. Dust Cap
6. Dummy Receptacle
7. Screw (P/N LN9439M3X14)
8. Washer (P/N LN9016-03K)
9. Nut (P/N LN9348-03)
10. Lockwire
11. Locking Tab
12. Sealing Compound (P/N PR 1422 B2)
13. Adhesive (P/N EA 9396)
14. Primer
15. Polyurethane Paint (Alumigrip G1001 Gamma Grey)



Connector on fwd tank saddle RHS of aircraft looking aft



RHS looking up at removable aft belly panel

① Dummy receptacle (6) is filled with sealing compound (12).

NOTES:

Figure 9 50 AMP/Longline/Power System Belly Connector - 01 variant only

Legend (for Figure 10)

Item Description

1. Harness (999-900004-05, -06, -07, -12)
2. Screw (P/N LN9038-05014)
3. Washer (P/N LN9016-05K)
4. Oversize Washer (P/N LN29952-0510K)
5. Nut (P/N LN9348-05)
6. Ground Stud Installation
7. Bonding Jumper
8. Tyrap Base
9. Sealing Compound (P/N PR 1422 B2)
10. Protective Coating (P/N Nycote 7-11BL)
11. Electrical Joint Compound (P/N Penetrox A13)

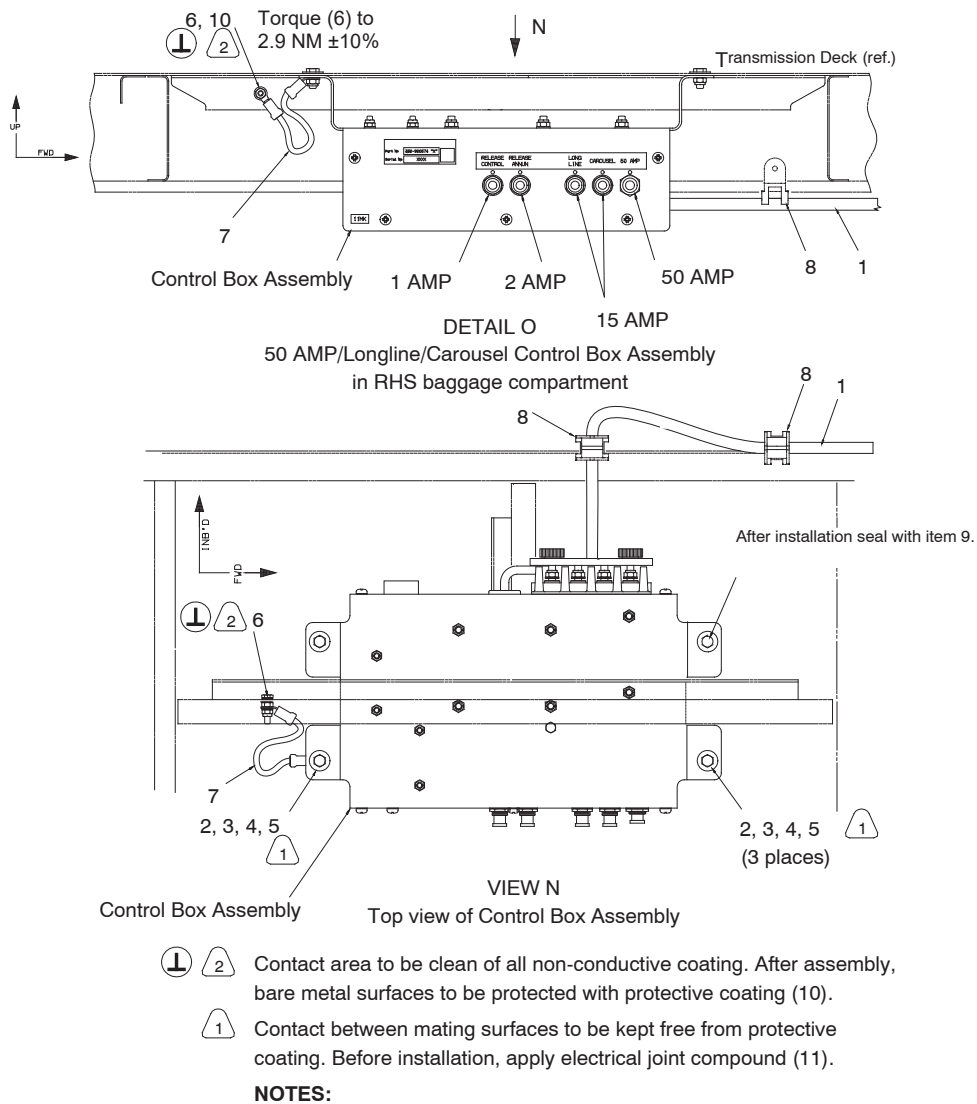
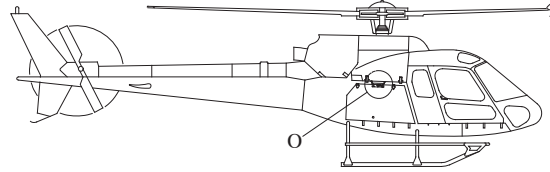


Figure 10 50 AMP/Longline/Carousel Control Box Assembly

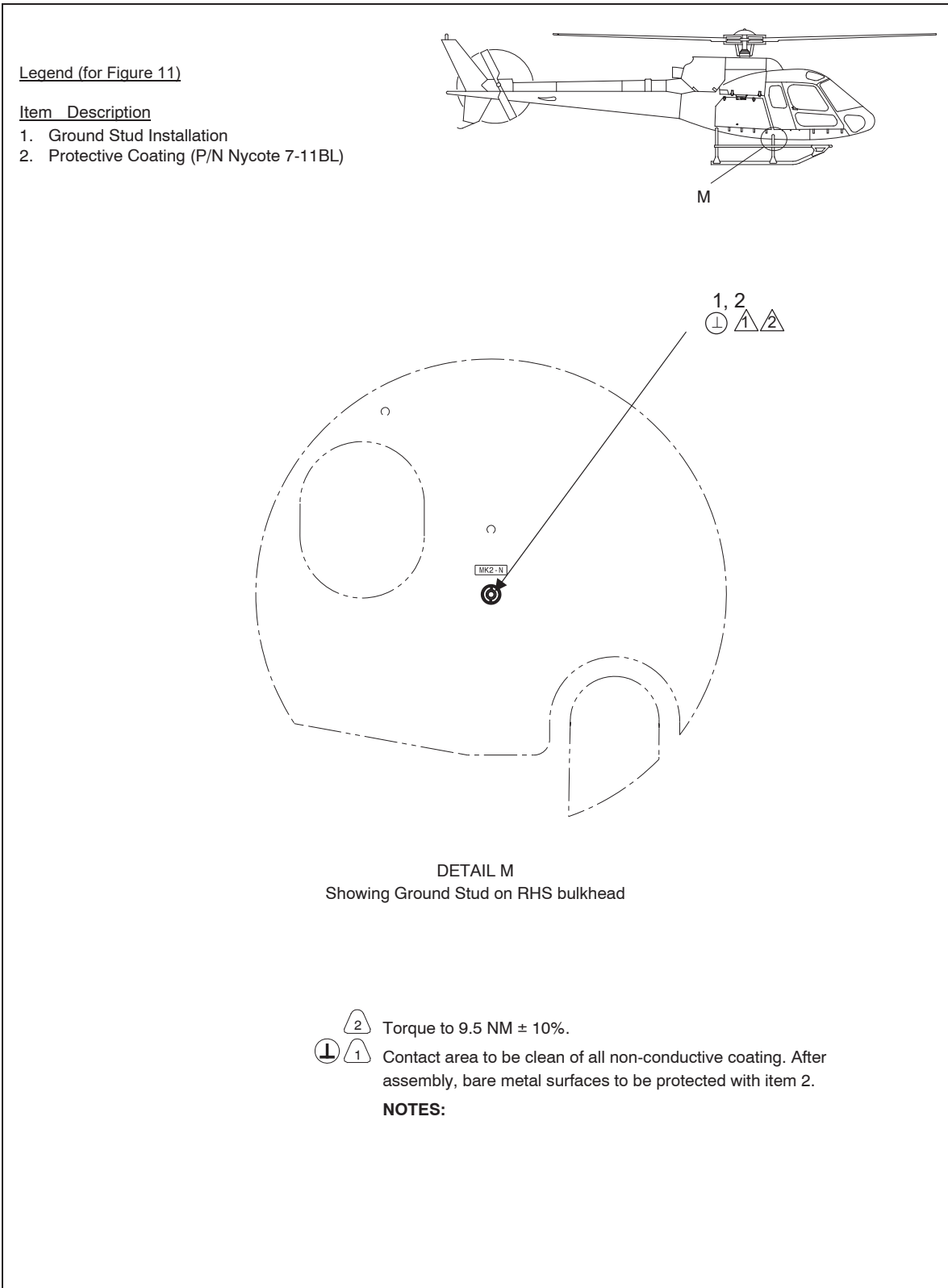


Figure 11 Ground Stud installation

C. REFERENCES

DOCUMENT	DOCUMENT TITLE
AMM	Aircraft Maintenance Manual
ICA	Instructions for Continued Airworthiness
IP-AHCA-133	Installation Procedures
MTC	Standard Practices Manual
MOD 07-4280	Modification 07-4280: SMS control unit replaced via Multiple control unit
MOD 07.20034	Modification 07.20034: Installation of a Fuel System Improving Crashworthiness

D. ABBREVIATION & DEFINITIONS

ABBREVIATION	DEFINITION
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
A/W	Airworthiness
CAR	Canadian Aviation Regulations
CRFS	Crash Resistant Fuel System
DAPM	Design Approval Procedures Manual
EASA	European Aviation Procedures Manual
e.g.	for example
FAA	Federal Aviation Administration
FH	Flight Hours
fwd	forward
H/C	Helicopter
ICA	Instruction for Continued Airworthiness
LH	Left-Hand
LL	Longline
L. Line	Longline
P/N	Part Number
ref.	reference
RH	Right-Hand
RHS	Right Hand Side
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation
w	with

E. UNITS OF MEASURE

ABBREVIATION / SYMBOL	UNIT OF MEASUREMENT
A	Ampere
AMP	Ampere
D	Days
FH	Flight Hours
in	inches
kg	kilograms
lb	pounds
m	meters
M	Months
NM	Newton meters

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.

3 CONTROL AND OPERATION

Apart from the following, Control and operation of the aircraft remains unchanged.

Two indicator switches are used for arming either the Longline/Carousel or the 50 AMP Power. Only one system may be selected ON at a time. The lower segment of the activated switch will light up AMBER to indicate the selected switch. Refer to Figure 4.

Once armed, the system can be operated using pushbutton on the pilot's cyclic. Refer to Figure 2.

If the optional guarded pushbutton is installed on the Pilot's Collective Lever, the Longline and 50 AMP Power system can be operated using either the pushbutton on the pilot's cyclic or the Guarded pushbutton on the collective. Refer to Figures 2 and 3.

If the carousel system modification is installed, the carousel circuit will be constantly powered when the longline carousel armed switch is selected and the "ARMED" indicator lights up. A placard repeating this advisory is attached to the loadmeter. Refer to Figure 5.

PILOT'S CYCLIC LONGLINE / CAROUSEL SYSTEM OPERATION

(Refer to Figures 2 and 4)

LONGLINE/CAROUSEL, 50 AMP indicator switches	OFF, GREEN indicator lights are on
LONGLINE/CAROUSEL switch	Press; ON, AMBER armed light comes on
Cyclic lever	Flip lever down to access system from cyclic
Longline pushbutton	Press and hold as required: power is activated while pressed
Carousel pushbutton	Press and hold as required: power is activated while pressed
LONGLINE/CAROUSEL switch	Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on

PILOT'S CYCLIC 50 AMP POWER SYSTEM OPERATION

(Refer to Figures 2 and 4)

LONGLINE/CAROUSEL, 50 AMP indicator switches	OFF, GREEN indicator lights are on
50 AMP switch	Press; ON, AMBER armed light comes on
Cyclic lever	Flip lever down to access system from cyclic
50 AMP Pushbutton	Press and hold as required: power is activated while pressed
50 AMP switch	Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on

PILOT'S COLLECTIVE LONGLINE SYSTEM OPERATION (if installed)

(Refer to Figures 3 and 4)

LONGLINE/CAROUSEL, 50 AMP indicator switches	OFF, GREEN indicator lights are ON
LONGLINE/CAROUSEL switch	Press; ON, AMBER armed light comes on
Collective lever	Flip guard up to access system from collective
Longline/50 AMP Pushbutton	Press and hold as required: power is activated while pressed
LONGLINE/CAROUSEL switch	Press; OFF, AMBER armed light goes off, GREEN indicator lights remain ON

PILOT'S COLLECTIVE 50 AMP POWER SYSTEM OPERATION (if installed)

(Refer to Figures 3 and 4)

50 AMP indicator switches	OFF, GREEN indicator lights are ON
50 AMP switch	Press; ON, AMBER armed light comes on
Collective lever	Flip guard up to access system from collective
Longline/50 AMP Pushbutton	Press and hold as required: power is activated while pressed
50 AMP switch	Press; OFF, AMBER armed light goes off, GREEN indicator lights remain ON

3 CONTROL AND OPERATION (continued)

PILOT'S CYCLIC LONGLINE / CAROUSEL SYSTEM MODIFICATION OPERATION

(Refer to Figure 5)

LONGLINE/CAROUSEL, 50 AMP indicator switches	OFF, GREEN indicator lights are on
LONGLINE/CAROUSEL switch	Press; ON, AMBER armed light comes on
LONGLINE/CAROUSEL, ARMED switch	The Carousel Circuit is constantly powered when the Longline Carousel armed switch is selected and "ARMED" lights up
LONGLINE/CAROUSEL switch	Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on

NOTE The ammeter must be monitored during 50 AMP operation.
A placard repeating this advisory is attached to the Instrument Panel in clear view of the pilot. Refer to Figure 1.

To adjust the brightness background lighting of the arming indicator switches, use the DAY/NIGHT SWITCH located on the Instrument Panel. Select DAY for brighter light and select NIGHT for dimmer light. Refer to Figure 1.

4 INSPECTION SCHEDULE AND MAINTENANCE ACTION

Refer to Section 8 if removing or replacing any parts.

NOTE: Testing of the 50 AMP/Longline/Carousel System prior to every flight requiring the use of the 50 AMP/Longline/Carousel System is recommended.

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

4.1. INSPECTION SCHEDULE

4.1.1. Before each flight requiring the 50 AMP/Longline/Carousel System:

ITEM	INSPECTION OR MAINTENANCE WORK	CORRECTIVE ACTION
A	<ul style="list-style-type: none"> - Before each flight requiring the use 50 AMP/Longline/Carousel System: a. Apply power to the Longline/Carousel Switch b. Apply power to the 50 Amp switch 	<ul style="list-style-type: none"> a. If lamp fails to illuminate, refer to Section 6, Troubleshooting. b. If lamp fails to illuminate, refer to Section 6, Troubleshooting.

Table 1 Before each flight requiring the 50 AMP/Longline/Carousel System

4.1.2. 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 50 AMP/Longline/Carousel System: a. Apply power to the Longline/Carousel Switch b. Apply power to the 50 AMP switch 	<ul style="list-style-type: none"> a. If lamp fails to illuminate, refer to Section 6, Troubleshooting. b. If lamp fails to illuminate, refer to Section 6, Troubleshooting.
B	<ul style="list-style-type: none"> - Check mounting hardware, securing the loadmeter housing to the aircraft for shown in Figures 6 and 7 for: a. security 	<ul style="list-style-type: none"> a. Secure as required.

Table 2 Inspection Schedule and Maintenance Action
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
(continued on following page)

4 INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1. INSPECTION SCHEDULE (continued)

4.1.2. 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
C	- Check connection between wire harness and switch housing connector plugs shown in Figures 6 and 7, for: a. security	a. Secure as required.
D	- Check mounting hardware securing the loadmeter to the housing, shown in Figures 6 and 7 for: a. security	a. Secure as required,
E	- Variant -01: Check mounting hardware, items 7, 8 and 9, securing dummy receptacle (6), dust cap (5) and wall mount connector (3) to connector bracket (2), shown in Figure 9, for: a. security	a. Secure as required.
F	- Variant -05: Check mounting hardware, items 6, 8 and 10 securing dummy receptacle (5), dust cap (4) and wall mount connector (3) to connector bracket (2), shown in Figure 8, for: a: security	a. Secure as required.
G	- Variant -05: Check mounting hardware, items 7, 9 and 11, securing, connector bracket (2) to aircraft frame, shown in Figure 8, for: a. security	a. Secure as required.
H	- Visually check sealing compound, (12), in dummy receptacle (6), shown in Figures 8 and 9, to: a. ensure dummy receptacle (6) is filled with sealing compound (12).	a. If dummy receptacle (6) is not filled, remove remaining compound, clean receptacle and refill in accordance with MTC, Chapter 20-05-01-206.

Table 2 Inspection Schedule and Maintenance Action
 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
 (continued on following page)

4 INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1 INSPECTION SCHEDULE (continued)

4.1.2. 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
I	- Check mounting hardware, items 2, 3, 4 and 5, securing the control box assembly under the transmission deck, shown in Figure 10, for a. security	a. Secure as required.
J	- Check ground stud installation (6), shown in Figure 10, for: a. security	a. Secure as required. Torque to 2.9 NM $\pm 10\%$.
K	- Check bonding jumper (7), shown in Figure 10, for: a. security b. cracking c. kinking	a. Secure as required. b. No cracking is allowed. Contact AHCA for replacement part if cracking found. c. If kinking found, adjust as required.
L	- Visually inspect Harness Assemblies (1), shown in Figures 8, 9 and 10, for: a. cracks, fraying, burns and chaffing b. security	a. Contact AHCA for replacement harness. b. Secure as required.
M	- Check ground stud installation (1), shown in Figure 11, for: a. security	a. Secure as required. Torque to 9.5 NM $\pm 10\%$. Refer to NOTE 2.
N	- Check placards and markings (refer to Section 10) for: a. legibility b. secure mounting	a. If placards and markings have become illegible, contact AHCA for replacement parts. b. Secure, reattach placards as required.

Table 2 Inspection Schedule and Maintenance Action
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

4 INSPECTION SCHEDULE AND MAINTENANCE ACTION (continued)

4.1 INSPECTION SCHEDULE (continued)

- 4.1.3. 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 you are operating 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	- Variant -01 Visually check removable aft belly panel, shown in Figures 9, for: a. delamination	a. Repairs may be accomplished in accordance with MTC, Chapters 20-03-06-401, Section 401, C and 20.03.07.101. Contact AHCA for repair material. Reapply adhesive (13, P/N EA 9396), scuff area to be primed once adhesive has dried. After repair, finish paint inside surface with polyurethane paint (15, P/N Alumigrip G1001 Gamma Grey).
	- Variant -05 Visually check removable aft belly panel, shown in Figure 8, for: a. delamination	a. Repairs may be accomplished in accordance with MTC, Chapters 20-03-06-401, Section 401, C and 20.03.07.101. Contact AHCA for repair material. Reapply adhesive (18, P/N ECS0010.10), scuff area to be primed once adhesive has dried. After repair, finish paint inside surface with polyurethane paint (20, P/N Alumigrip G1001 Gamma Grey) and catalyst (7, P/N G3010).

Table 3 Inspection Schedule and Maintenance Action
 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
 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

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

There are no unique characteristics which require troubleshooting techniques.

For electrical system troubleshooting, refer to Wiring Diagrams included in the STC package or contact AHCA. Refer to Figure 12 for 50A/Longline/Carousel Systems Block Diagram and 50A/Longline System (Pilot Collective Control).

No.	Trouble Symptom	Probable Cause	Corrective Action
1	Either the Longline/Carousel or the 50 AMP Switch lamp does not illuminate during Daily Preflight Inspection	Indicator light defective: Longline/Carousel (30MK) 50 AMP Switch (31MK)	Check indicator light and replace if defective: - Longline/Carousel P/N LED-42-15-BB-EOUFN - 50 Amp Switch P/N LED-42-15-BB-EOUFP
		Fuse (1MK) defective	Inspect and replace if defective P/N ANL-60
		Break or short in circuit	Perform circuit continuity check and replace/repair wiring as applicable in accordance with AC 43.13-1B, Chapter 11, Section 1.

Table 4 Troubleshooting Guide

For electrical system troubleshooting, refer to the wiring diagrams drawing list.

Wiring Diagram List for the 50 AMP/Longline/Carousel Systems Installation:

Drawing Number	Title
WD350-900564	50A/Longline/Carousel System
WD350-900704	50A/Longline System (Pilot Collective Control)
WD350-900714	Carousel System Mod

Table 5 Wiring Diagrams

NOTE: Refer to MDL for wiring diagram revision level applicable at installation.

7 SPECIAL TOOLING

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

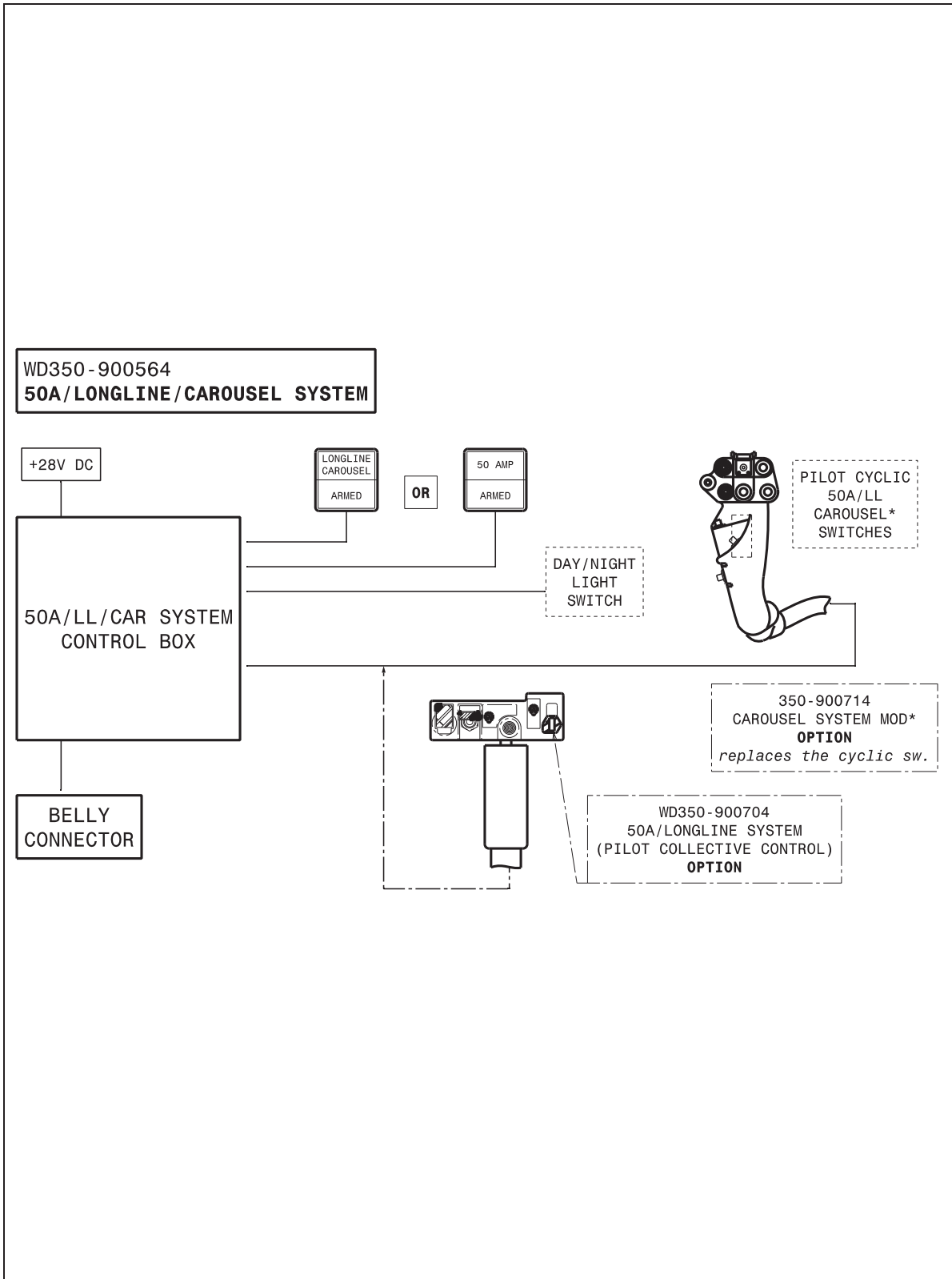


Figure 12 50 A/Longline/Carousel Systems Block Diagram

8 REMOVAL AND REPLACEMENT

PRELIMINARIES

- Read General Safety Instructions - 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, 2-1 (if applicable).
- Open and secure applicable circuit breakers / fuse before any servicing action.

A. REMOVAL

1) BELLY CONNECTORS

Dummy Receptacle

-01 Variant (Refer to Figure 9)

- a) Remove screws (7, 4 places), washers (8, 4 places) and nuts (9, 4 places) securing dummy receptacle (6) to connector bracket (2). Refer to VIEW P and VIEW Q.

-05 Variant (Refer to Figure 8)

- a) Remove screws (6, 4 places), washers (8, 4 places) and nuts (10, 4 places) securing dummy receptacle (5) to connector bracket (2). Refer to VIEW R and VIEW S.

NOTE: Ensure Dust Cap (4) is secured to dummy receptacle (5) before removal.

Wall Mount Connector and Straight Backshell

-01 Variant (Refer to Figure 9)

- a) Disconnect dust cap (5) if connected. Refer to VIEW Q.
- b) Remove lockwire (10), locking tab (11), screws (7, 4 places), washers (8, 4 places) and nuts (9, 4 places) securing wall mount connector (3) and straight backshell (4) to connector bracket (2). Refer to VIEW P and VIEW Q.

Wall Mount Connector and Backshell

-05 Variant (Refer to Figure 8)

- a) Disconnect dust cap (4) if connected. Refer to VIEW K.
- b) Remove lockwire (12), locking tab (13), screws (6, 4 places), washers (8, 4 places) and nuts (10, 4 places) securing wall mount connector (3) and backshell to connector bracket (2). Refer to VIEW R and SECTION C-C.

2) CONTROL BOX ASSEMBLY (Refer to Figure 10)

- a) Disconnect wiring harness (1). Refer to VIEW N.
- b) Remove screws (2, 4 places), washers (3, 4 places), oversize washers (4, 4 places), nuts (5, 4 places) securing the control box assembly to the inside of the RH baggage compartment.

8 REMOVAL AND REPLACEMENT (continued)

B. REPLACEMENT

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

Refer to General Application of Sealing Compounds - MTC, Chapter 20-05-01-102

Refer to Electrical bonding - General, MTC, Chapter 20.02.07.101

Refer to Safetying with lockwire - MTC, Chapter 20-02-06-402

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

1) BELLY CONNECTORS (Refer to Figure 8)

Dummy Receptacle

-01 Variant (Refer to Figure 9)

- a) Reposition dummy receptacle (6) onto connector bracket (2) and secure using screws (7, 4 places), washers (8, 4 places) and nuts (9, 4 places). Refer to VIEW P and VIEW Q.

-05 Variant (Refer to Figure 8)

- a) Reposition dummy receptacle (5) onto connector bracket (2) and secure using screws (6, 4 places), washers (8, 4 places) and nuts (10, 4 places). Refer to VIEW R and VIEW S.

Wall Mount Connector and Straight Backshell

-01 Variant (Refer to Figure 9)

- a) Reposition wall mount connector (3) and straight backshell (4) onto connector bracket (2) and secure using screws (7, 4 places), locking tab (11), washers (8, 4 places) and nuts (9, 4 places). Safety using lockwire (10). Refer to VIEW P and VIEW Q.

Wall Mount Connector and Backshell

-05 Variant (Refer to Figure 8)

- a) Reposition wall mount connector (3) and backshell onto connector bracket (2) and secure using screws (6, 4 places), locking tab (13), washers (8, 4 places) and nuts (10, 4 places). Safety using lockwire (12). Refer to VIEW S and SECTION C-C.

2) CONTROL BOX ASSEMBLY (Refer to Figure 10)

- a) Realign the control box assembly mounting holes with the holes in the transmission deck inside of the RH baggage compartment.
- b) Secure the control box assembly using screws (2, 3 places), washers (3, 3 places), oversized washers (4, 3 places) and nuts (5, 3 places). Refer to NOTE 1 and VIEW N.
- c) Secure bonding jumper (7) using screw (2, 1 place), washer (3, 1 place) oversized washer (4, 1 place) and nut (5, 1 place). Refer to NOTE 1 and VIEW N.

NOTE: Contact between mating surfaces to be kept free from protective coating. Before installation, apply electrical joint compound (11). Refer to NOTE 1.

- d) Seal screws (2, 4 places) and oversized washers (4, 4 places) with sealing compound (9). Refer to VIEW N.
- e) Reconnect wiring harness (1). Refer to VIEW N.

8 REMOVAL AND REPLACEMENT (continued)

B. REPLACEMENT (continued)

- 3) If lower cowlings were removed, reinstall in accordance with Installation - Lower fairings, AS 350 B2/B3, AMM, Chapter 53-51-00, 4-2.
- 4) Comply with General Safety Instruction - Electrical Power Supply System, AS 350 B2/B3, AMM, Chapter 24-00-00, 3-1.
- 5) Use an ohm meter, point to point check all connections to ensure correct installation.
- 6) Close all circuit breakers/fuses opened for service in the PRELIMINARIES paragraph of this section.
- 7) Reconnect battery, AS 350 B2/B3, AMM, Chapter 24-33-00, 4-1.
- 8) Re-connect the external power in accordance with AS 350 B2/B3, AMM, Chapter 24-00-00, 2-1a PRE MOD 07-4280 or 24-00-00, 2-1b POST MOD 07-4280 (if required).
- 9) Perform functional test - DC power Supply System in accordance with AS 350 B2/B3 AMM, Chapter 24-30-00, 5-1.
- 10) Perform operational check of all systems that were serviced in accordance with the AS 350 B2/B3 AMM procedures and the system's installation/operation manual.

Check Pilot's Cyclic Longline/Carousel System Operation (Refer to Figures 2 and 4)

- | | | |
|---|---|--|
| LOGLINE/CAROUSEL, 50 AMP indicator switches | - | OFF, GREEN indicator armed lights are on |
| LOGLINE/CAROUSEL switch | - | Press; ON, AMBER armed light comes on |
| Cyclic lever | - | Flip lever down to access system from cyclic |
| Longline Pushbutton | - | Press and hold as required: power is activated while pressed |
| Carousel Pushbutton | - | Press and hold as required: power is activated while pressed |
| LOGLINE/CAROUSEL switch | - | Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on |

Check Pilot's Cyclic 50 AMP System Operation (Refer to Figures 2 and 4)

- | | | |
|---|---|--|
| LOGLINE/CAROUSEL, 50 AMP indicator switches | - | OFF, GREEN indicator lights are on |
| 50 AMP switch | - | Press; ON, AMBER armed light comes on |
| Cyclic lever | - | Flip lever down to access system from cyclic |
| 50 AMP Pushbutton | - | Press and hold as required: power is activated while pressed |
| 50 AMP switch | - | Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on |

8 REMOVAL AND REPLACEMENT (continued)

B. REPLACEMENT (continued)

Check Pilot's Collective Longline System Operation (if installed)
(Refer to Figures 3 and 4)

- LONGLINE/CAROUSEL, 50 AMP indicator switches - OFF, GREEN indicator lights are on
- LONGLINE/CAROUSEL switch - Press; ON, AMBER armed light comes on
- Collective lever - Flip guard up to access system from collective
- Longline/50 AMP Pushbutton - Press and hold as required: power is activated while pressed
- LONGLINE/CAROUSEL switch - Press; OFF, AMBER armed light goes off, GREEN indicator lights remain ON

Check Pilot's Collective 50 AMP Power System Operation (if installed)
(Refer to Figures 3 and 4)

- 50 AMP indicator switches - OFF, GREEN indicator lights are on
- 50 AMP switch - Press; ON, AMBER armed light comes on
- Collective lever - Flip guard up to access system from collective
- Longline/50 AMP Pushbutton - Press and hold as required: power is activated while pressed
- 50 AMP switch - Press; OFF, AMBER armed light goes off, GREEN indicator lights remain ON

Pilot's Cyclic Longline / Carousel System Modification Operation
(Refer to Figure 5)

- LONGLINE/CAROUSEL, 50 AMP indicator switches - OFF, GREEN indicator lights are on
- LONGLINE/CAROUSEL switch - Press; ON, AMBER armed light comes on
- LONGLINE/CAROUSEL, ARMED switch - The Carousel Circuit is constantly powered when the Longline Carousel armed switch is selected and "ARMED" lights up
- LONGLINE/CAROUSEL switch - Press; OFF, AMBER armed light goes off, GREEN indicator lights remain on



9 WEIGHT AND BALANCE DATA

-01 Variant

A. Removed Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Not applicable	00.00	00.00	00.00	00.00	00.00	00.00
Total	00.00	00.00	00.00	00.00	00.00	00.00

B. Added Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Switch Housing Assembly	0.08	0.19	1.30	51.18	0.11	9.72
50 AMP/LL/Control Box Assembly	2.08	4.59	3.45	135.83	7.18	623.46
Connector Bracket	0.05	0.11	3.10	122.05	0.16	13.43
Loadmeter Housing	0.44	0.97	1.30	51.18	0.57	49.64
Back Up Plate	0.06	0.13	1.30	51.18	0.08	6.65
Blanking Plate	0.01	0.02	1.30	51.18	0.01	1.02
Bonding Jumper	0.01	0.02	3.45	135.83	0.03	2.72
Dust Cap & Dummy Receptacle	0.05	0.11	3.10	122.05	0.16	13.43
Connector & Backshell	0.10	0.22	3.10	122.05	0.31	26.85
Harness	3.50	7.72	2.56	100.79	8.96	778.10
Total	6.38	14.08	2.75	108.31	17.57	1525.02



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
ELECTRICAL POWER SUPPLY FOR OPTIONAL
50 AMP/LOGLINE/CAROUSEL SYSTEMS
AS 350 B2/B3

AIRBUS HELICOPTERS CANADA LIMITED

-05 Variant

A. Removed Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Not applicable	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

B. Added Items

DESCRIPTION	WEIGHT		ARM		MOMENT	
	kg	lbs	m	in	kg m	lb in
Switch Housing Assembly	0.08	0.19	1.30	51.18	0.11	9.72
50 AMP/LL/Control Box Assembly	2.08	4.59	3.45	135.83	7.18	623.46
Connector Bracket	0.06	0.13	3.55	139.76	0.21	18.17
Loadmeter Housing	0.44	0.97	1.30	51.18	0.57	49.64
Back Up Plate	0.06	0.13	1.30	51.18	0.08	6.65
Blanking Plate	0.01	0.02	1.30	51.18	0.01	1.02
Bonding Jumper	0.01	0.02	3.45	135.83	0.03	2.72
Dust Cap & Dummy Receptacle	0.05	0.11	3.54	139.37	0.18	15.33
Connector & Backshell	0.10	0.22	3.58	140.94	0.36	26.85
Harness	3.50	7.72	2.56	100.79	8.96	778.10
Total	6.39	14.10	2.77	108.92	17.69	1535.82

10 PLACARDS AND MARKINGS

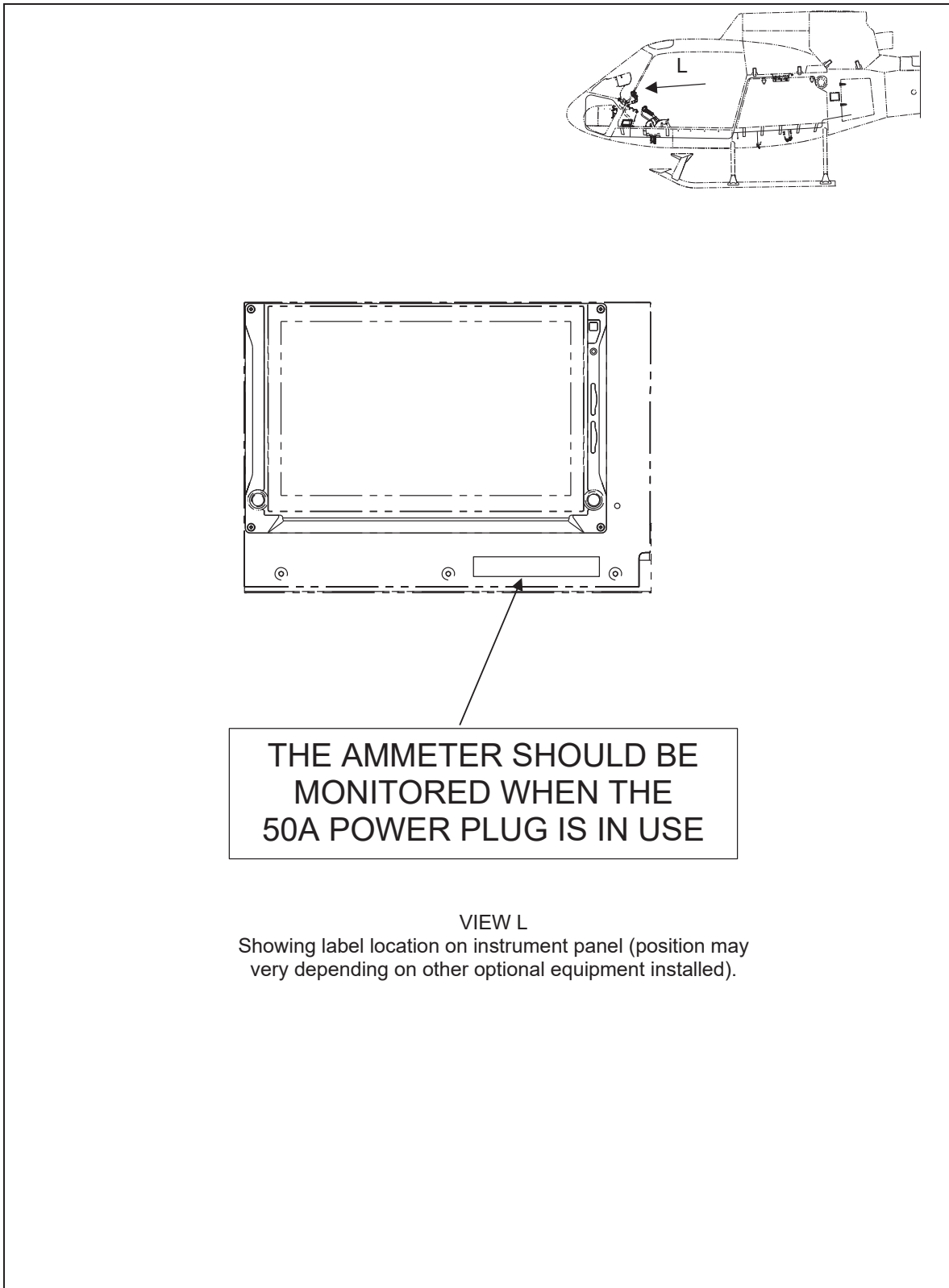


Figure 13 Typical placard location on the Instrument Panel

10 PLACARDS AND MARKINGS (continued)

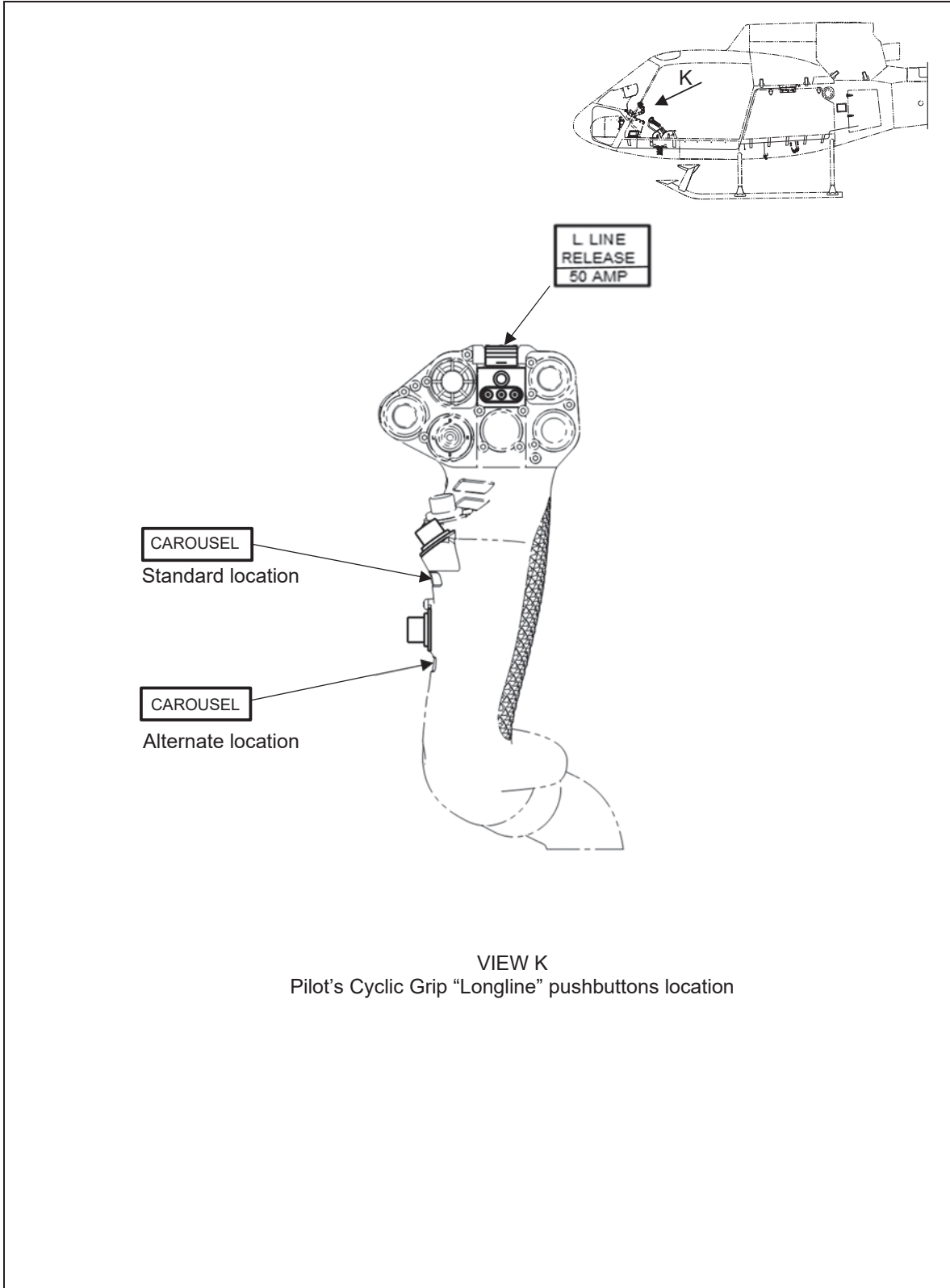


Figure 14 Labels located on Pilot's Cyclic Stick Grip

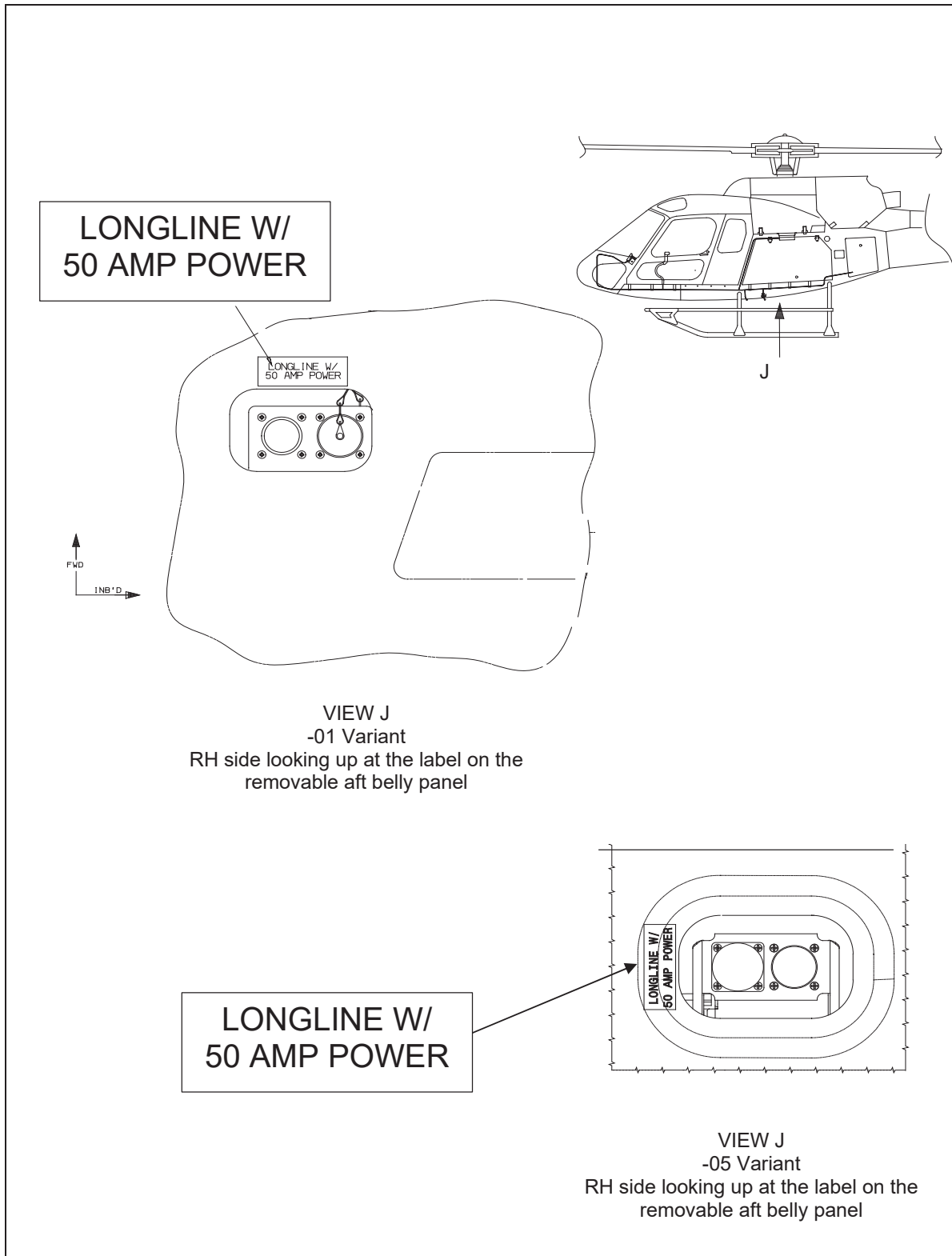
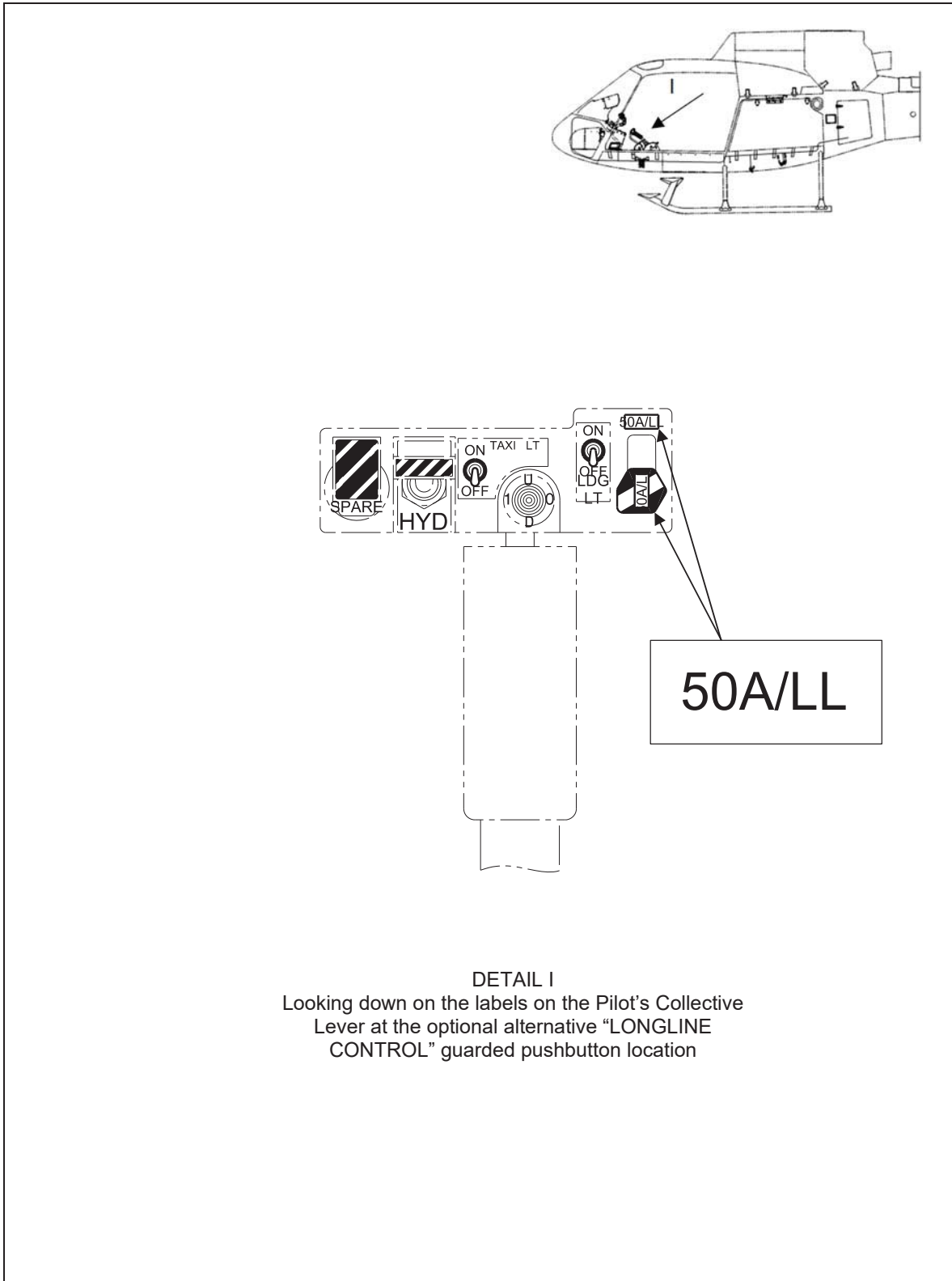


Figure 15 Label located on aft belly panel

10 PLACARDS AND MARKINGS (continued)



DETAIL I
Looking down on the labels on the Pilot's Collective
Lever at the optional alternative "LOGLINE
CONTROL" guarded pushbutton location

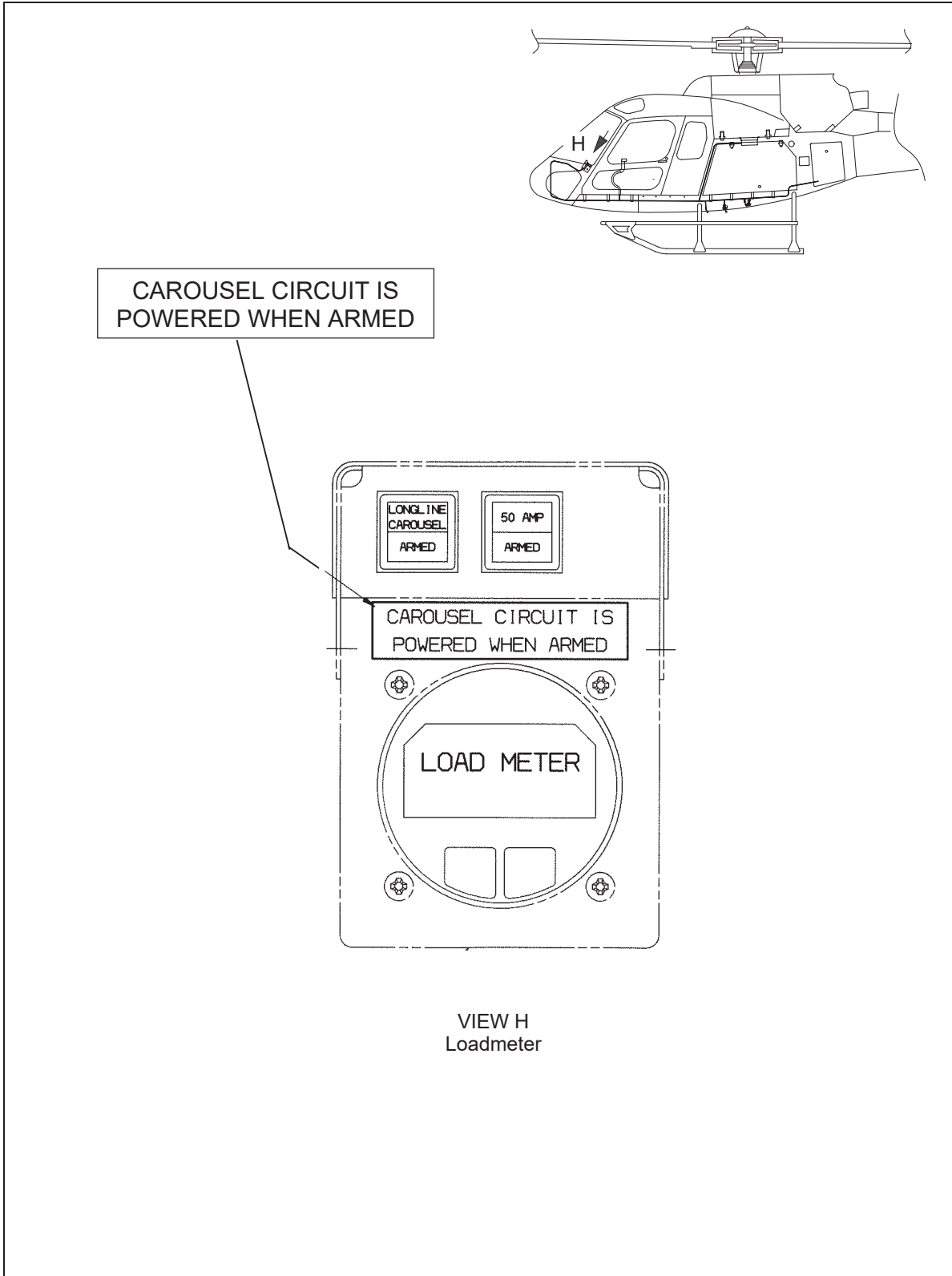


Figure 17 Label on loadmeter for Longline/Carousel and 50 AMP switch with Carousel System Mod