

**SUBJECT:**

**FLIGHT MANUAL SUPPLEMENT FOR ELECTRICAL POWER  
SUPPLY FOR OPTIONAL 50 AMP/LONGLINE/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.

Department of Transport  
(Canada) Approved

**IMPORTANT NOTE**

THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE AS 350 B2/B3 HELICOPTER IN THOSE AREAS LISTED HEREIN. FOR LIMITATIONS, PROCEDURES AND PERFORMANCE NOT CONTAINED IN THIS DOCUMENT REFER TO THE APPROVED FLIGHT MANUAL AND OTHER APPLICABLE APPROVED FLIGHT MANUAL SUPPLEMENTS.

SECTIONS 2, 3, 4 AND 5 OF THIS DOCUMENT COMPRISE THE APPROVED FLIGHT MANUAL SUPPLEMENT. COMPLIANCE WITH SECTION 2, LIMITATIONS, IS MANDATORY.

SECTIONS 1 AND 6 ARE UNAPPROVED AND ARE PROVIDED FOR INFORMATION ONLY.



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**RECORD OF REVISION**

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 12	Original issue.	D. Kerr 3 March 2014	C. Timmins 3 March 2014	N/A	P. Sharpe 25 March 2014
1	1 through 14	Addition of Pilots collective lever illustration showing Collective Pitch Mechanical Release. Emergency procedures revised. (Pages 3 to 9, 11 & 12)	D. Kerr 25 March 2014	G. Krebs 25 March 2014	TCCA G. David 27 March 2014	P. Sharpe 28 March 2014
2	1 through 15	Document title revised. Figure 1 revised. New figure showing belly connectors. Pre-Flight checks revised. (Pages 3 to 10 and 12 to 14)	D. Kerr 26 March 2015	G. Krebs 30 March 2015	TCCA G. David 15 April 2015	P. Garofalo 17 April 2015
3	1 through 16	Addition of optional alternative momentary switch on the pilot's collective lever. Additional Pre-Flight checks added to Section 4 for new switch on collective. (Pages 3 to 5, 7 to 9, 11, 13 to 15)	D. Kerr 28 April 2015	G. Krebs 28 April 2015	TCCA G. David 29 April 2015	P. Garofalo 29 April 2015
4	1 through 16	-05 variant introduced which relocates the belly connector aft of the fwd fuel tank saddle for aircraft embodying MOD 07.20034 CRFS. Introduction of the Carousel System Modification and Avionics Step 3 compatibility. Changed Momentary switch references to pushbutton on Pilot's Cyclic Stick and guarded pushbutton on Pilot's collective Lever. (Pages 4 to 7 and 9 to 15)	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 (unapproved)

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 long line 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 5.

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

**NOTE:** Rotorcraft must be equipped with an approved cargo hook installation and operated in accordance with the approved Flight Manual Supplements.

The electrical connection between the belly-mounted power supply and the optional equipment is to be provided by the installer and must include a breakaway type electrical connection for use with the external load.

**FLIGHT MANUAL SUPPLEMENT**  
**AIRBUS** **ELECTRICAL POWER SUPPLY FOR OPTIONAL**  
**AIRBUS HELICOPTERS CANADA LIMITED** **50 AMP/LONGLINE/CAROUSEL SYSTEMS**  
**AS 350 B2/B3**

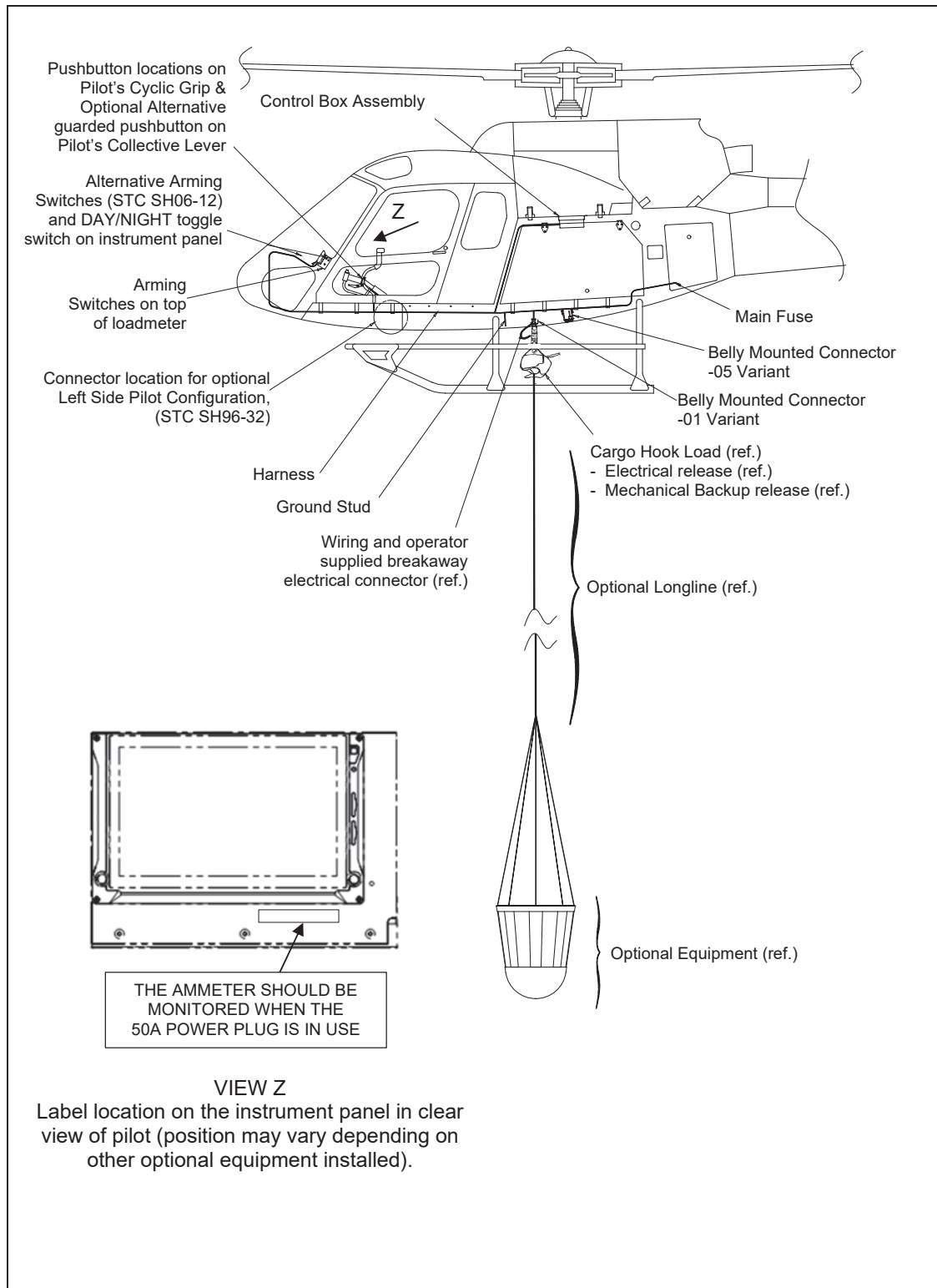


Figure 1 General layout

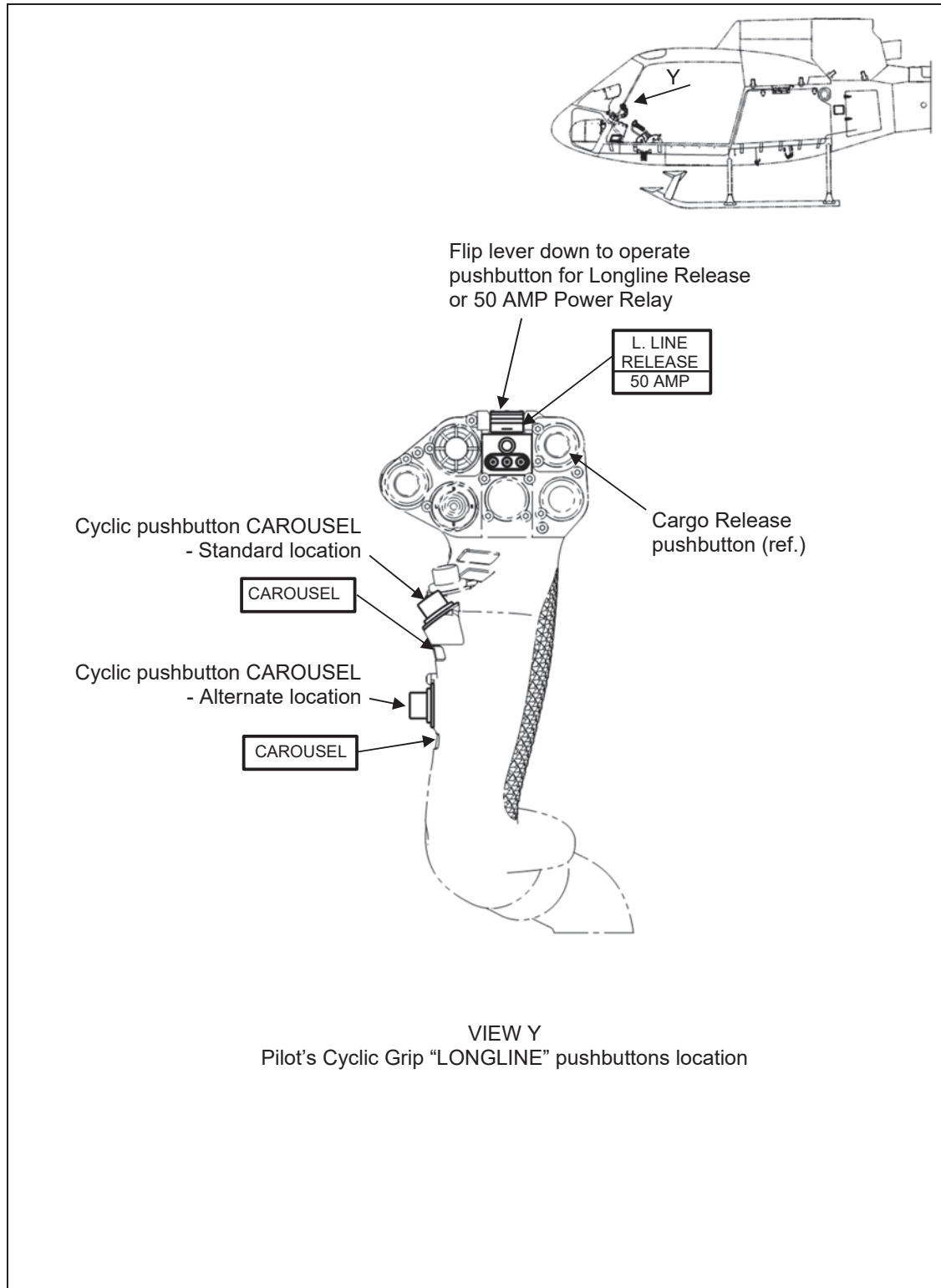


Figure 2 Pilot's Cyclic Stick Grip

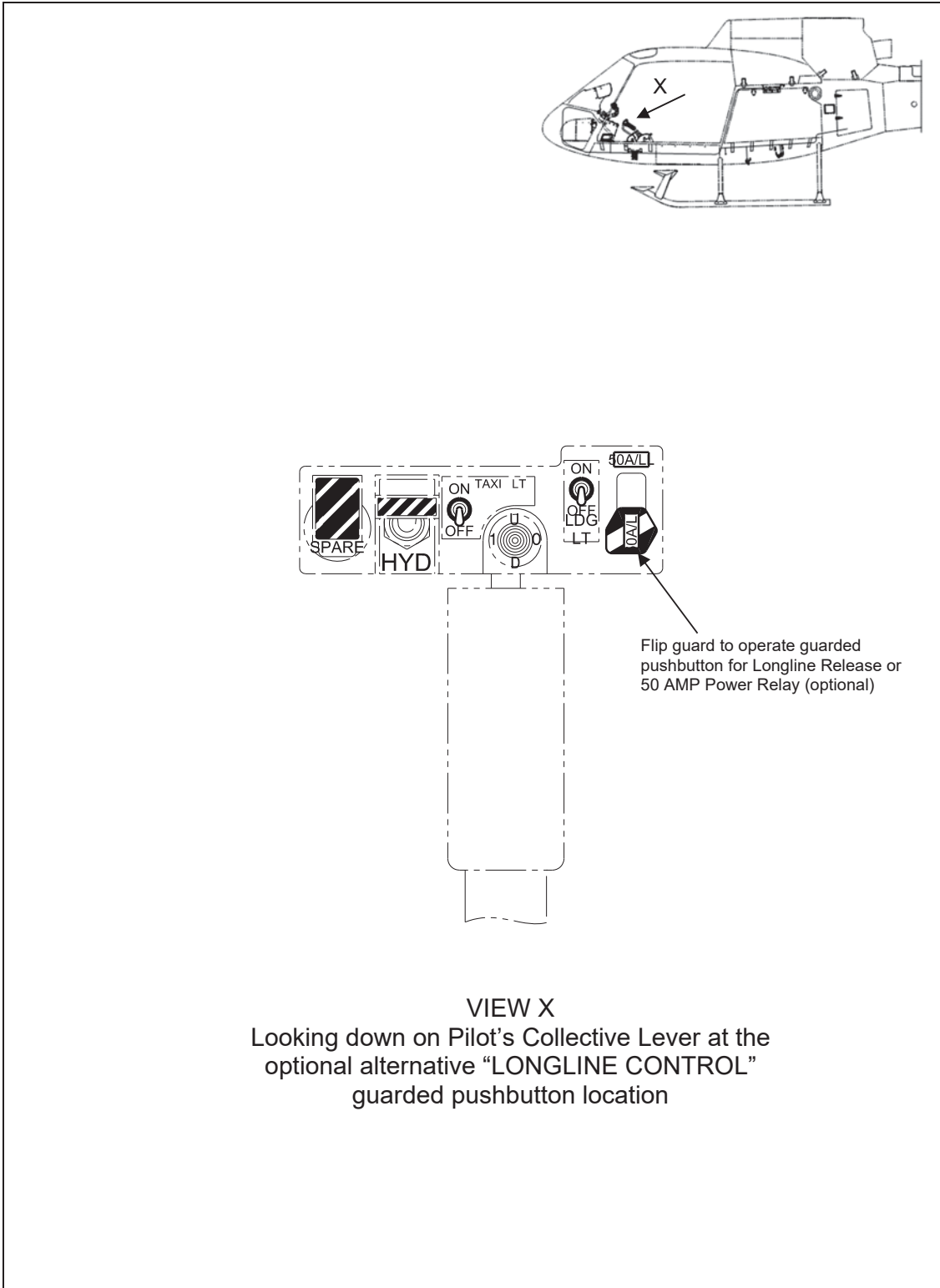


Figure 3 Optional Alternative guarded pushbutton location - Pilots Collective Lever

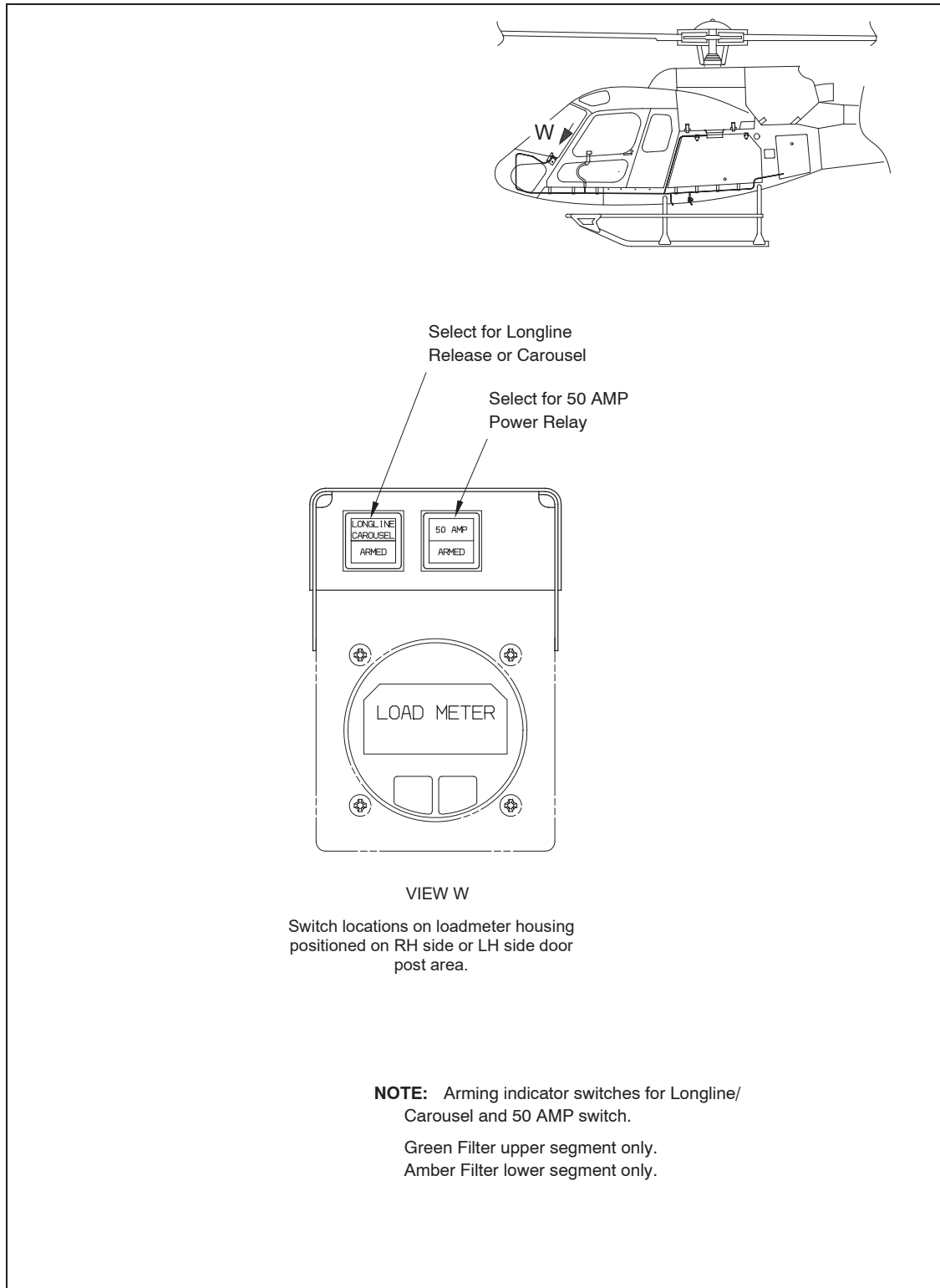


Figure 4 Arming indicator switch for Longline/Carousel and 50 AMP Switch



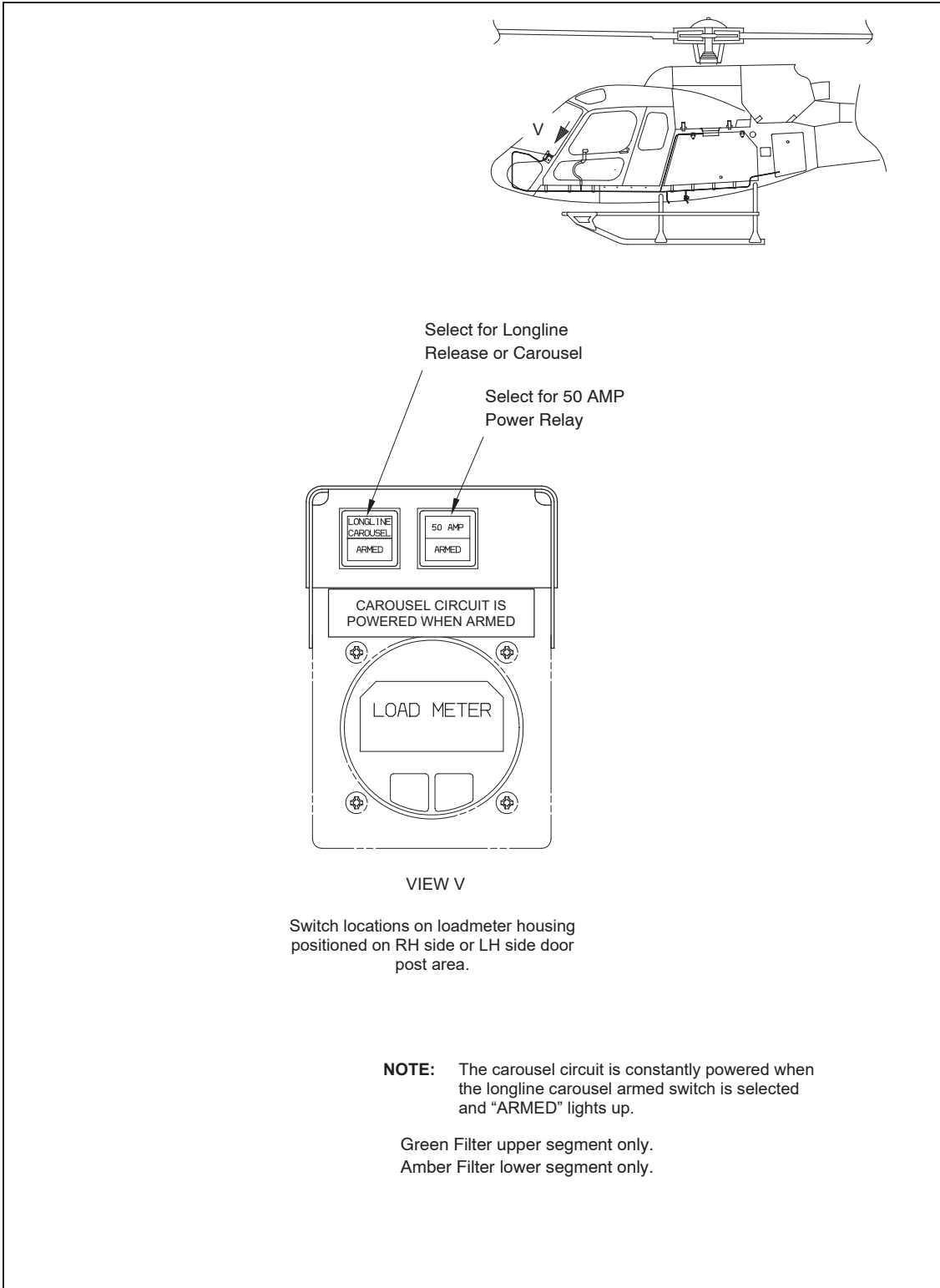


Figure 5 Switch Housing Assembly Installation with Carousel System Modification

1. **GENERAL (unapproved)** (continued)

## Abbreviations and Definitions

ABBREVIATION	DEFINITION
A	Ampere
Acc'd	Accepted
AHCA	Airbus Helicopters Canada Limited
AMP	Ampere
App'd	Approved
A/W	Airworthiness
CAR	Canadian Aviation Regulations
CRFS	Crash Resistant Fuel System
DAPM	Design Approval Procedure Manual
e.g.	for example
FMS	Flight Manual Supplement
ft.	feet
H/C	helicopter
INBD	Inboard
LH	Left Hand
L.Line	Long Line
MOD	Modification
P/N	Part Number
ref.	reference
rev.	revision
RH	Right Hand
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation

## 2 LIMITATIONS

### a. Placards

There are two placards associated with the 50 AMP/Longline/Carousel System.

#### 1) Placard:

THE AMMETER SHOULD BE  
MONITORED WHEN THE  
50A POWER PLUG IS IN USE

Location: Located on the Instrument Panel. (position may vary depending on other optional equipment installed). Refer to Figure 1.

#### 2) Placard (with Carousel System Modification):

CAROUSEL CIRCUIT IS  
POWERED WHEN ARMED

Location: Located on the loadmeter housing with Carousel System Modification. Refer to Figure 5.

## 3 EMERGENCY PROCEDURES

### a. Electrical Longline Load Jettisoning Failure

Release external load as per Emergency Procedure for the Cargo/Hook Swing installed to release longline with load.

#### 4 NORMAL PROCEDURES

If operating with cyclic carousel pushbutton option, 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 part 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 the pushbuttons 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 is constantly powered when the longline carousel armed switch is selected and the "ARMED" indicator lights up. Refer to Figure 5.

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.

**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.

##### a. Pre-Flight Check

The following checks are to be carried out prior to every flight requiring the use of the 50 AMP/Longline/Carousel:

Breakaway Electrical Connector (supplied by operator)	-	Ensure connector can break away freely. (Refer to Figure 1)
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a. Pre-Flight Check (continued)

Pilot's Cyclic Longline /Carousel System Operation

(Refer to Figures 2 and 4)

- |                                              |   |                                                                          |
|----------------------------------------------|---|--------------------------------------------------------------------------|
| LONGLINE/CAROUSEL, 50 AMP indicator switches | - | OFF, GREEN indicator armed 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 |

a. **Pre-Flight Check** (continued)

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

- LOGLINE/CAROUSEL, 50 AMP indicator switches - OFF, GREEN indicator lights are on
- LOGLINE/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
- LOGLINE/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

Pilot's Cyclic Longline / Carousel System Modification Operation (if installed)  
(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

b. **Engine Starting**

No change.

**5 PERFORMANCE DATA**

No change to basic Flight Manual data.



AIRBUS HELICOPTERS CANADA LIMITED

FLIGHT MANUAL SUPPLEMENT  
ELECTRICAL POWER SUPPLY FOR OPTIONAL  
50 AMP/LONGLINE/CAROUSEL SYSTEMS  
AS 350 B2/B3

**6 WEIGHT AND BALANCE (unapproved)**

Total changes to weight and balance resulting from this modification are covered in the applicable Instructions for Continued Airworthiness.

Items that are removed between routine operations: Not applicable.