



AIRBUS HELICOPTERS CANADA LIMITED

**FLIGHT MANUAL SUPPLEMENT
ELECTRICAL POWER SUPPLY FOR OPTIONAL
50 AMP/LONGLINE/CAROUSEL SYSTEM
EC 130 T2**

**SUBJECT: ELECTRICAL POWER SUPPLY FOR OPTIONAL
50 AMP/LONGLINE/CAROUSEL SYSTEM (P/N 130-900024)**

The Electrical Power Supply for 50 AMP/Longline/Carousel System provides electrical power for optional equipment.

APPLICABILITY:

This Flight Manual Supplement must be used when the Electrical Power Supply for Optional 50 AMP/Longline/Carousel System is installed on the helicopter.

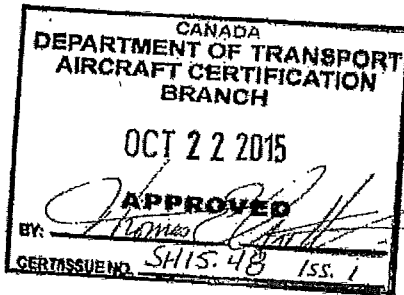
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IMPORTANT NOTE

THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE EC 130 T2 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 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 15	Original Issue	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 System provides electrical power for optional equipment. Refer to Section 1, Figure 1 for General Layout.

A momentary switch for the longline release or the 50 AMP power relay is located under the lever on the pilot's cyclic grip. A momentary switch located on the pilot's cyclic grip activates power for the Carousel. Refer to Section 1, Figure 2.

The system arming switches are located on the load meter housing which is located on the LHS door post adjacent to the lower LH corner of the windshield. Refer to Section 1, Figure 3.

NOTE: As a pre-requisite, the rotorcraft must be equipped with an approved cargo hook installation and operated in accordance with the approved Flight Manual Supplement for the cargo hook and in conjunction with this Supplement.

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.

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

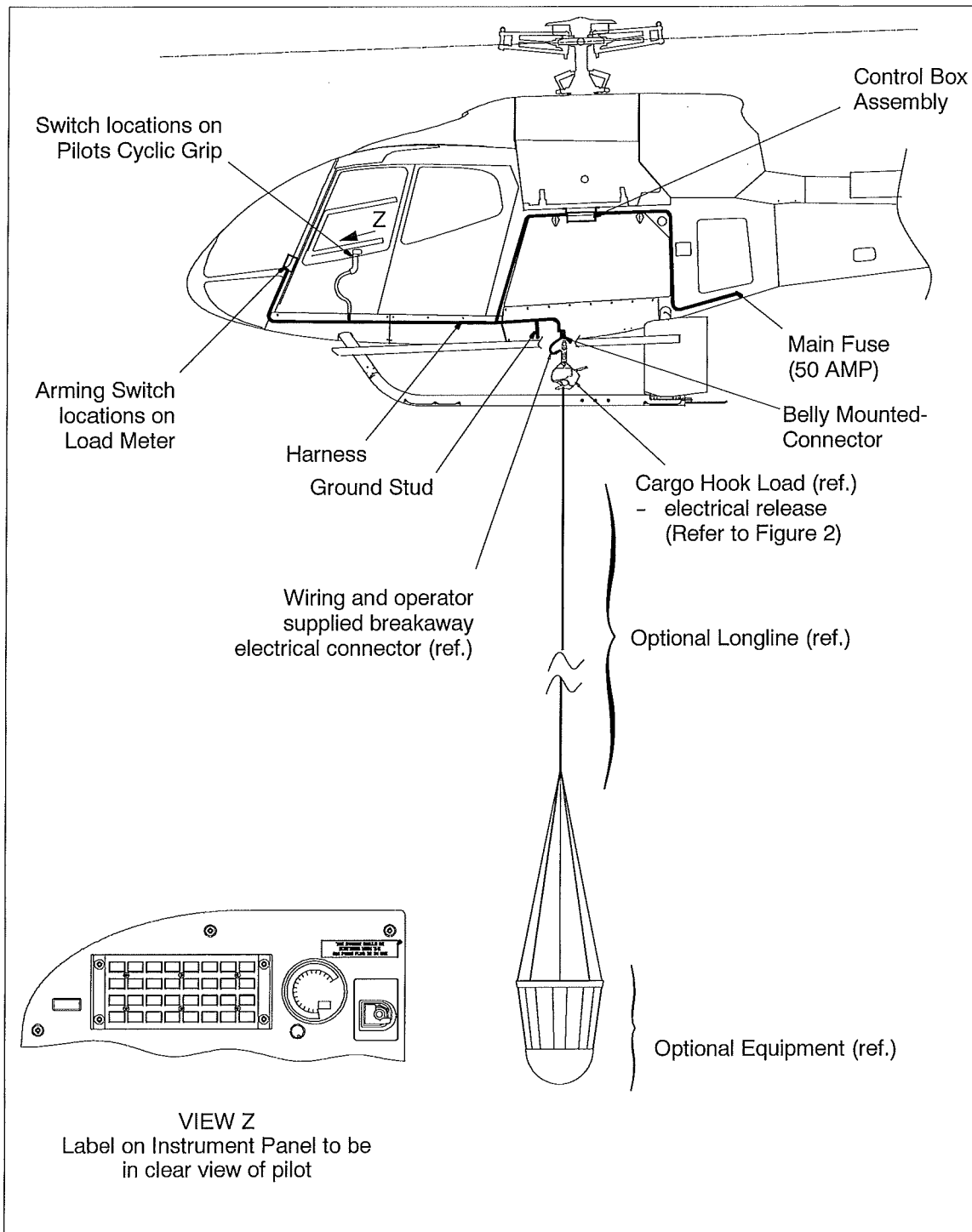


Figure 1 General Layout

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1. GENERAL (unapproved) (continued)

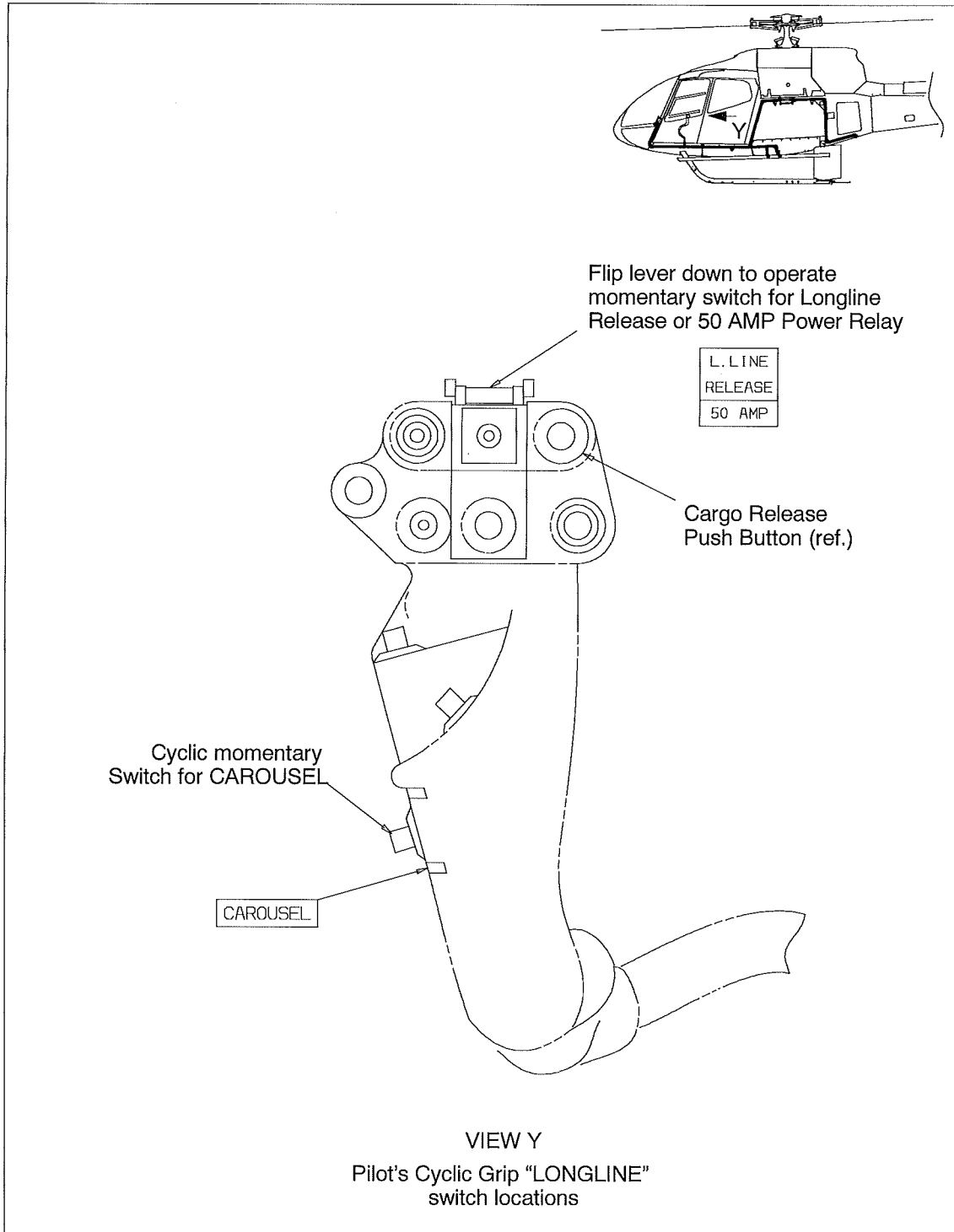


Figure 2 Pilot's Cyclic Stick Grip

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

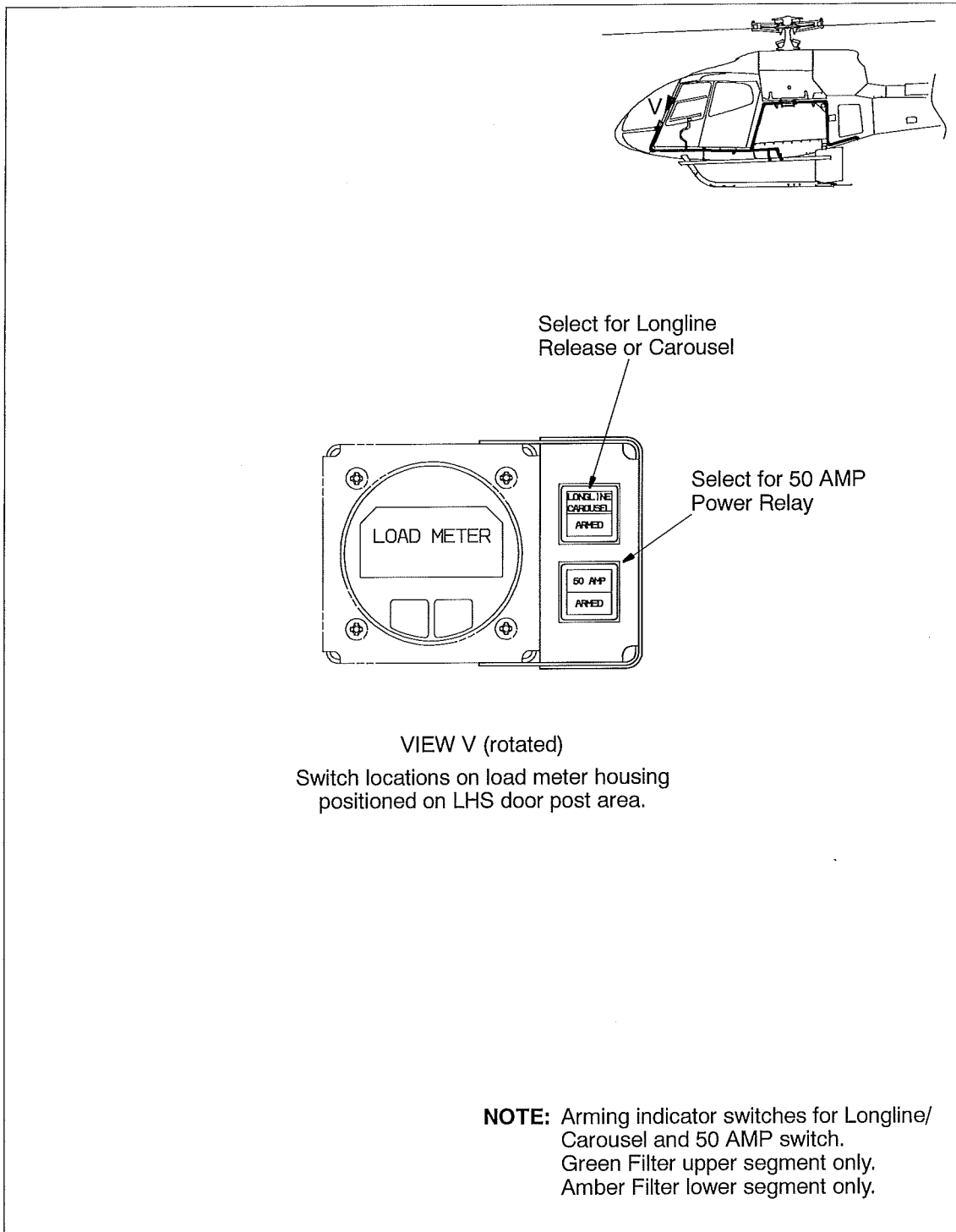


Figure 3 Arming indicator switch for Longline/Carousel and 50 AMP Switch

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

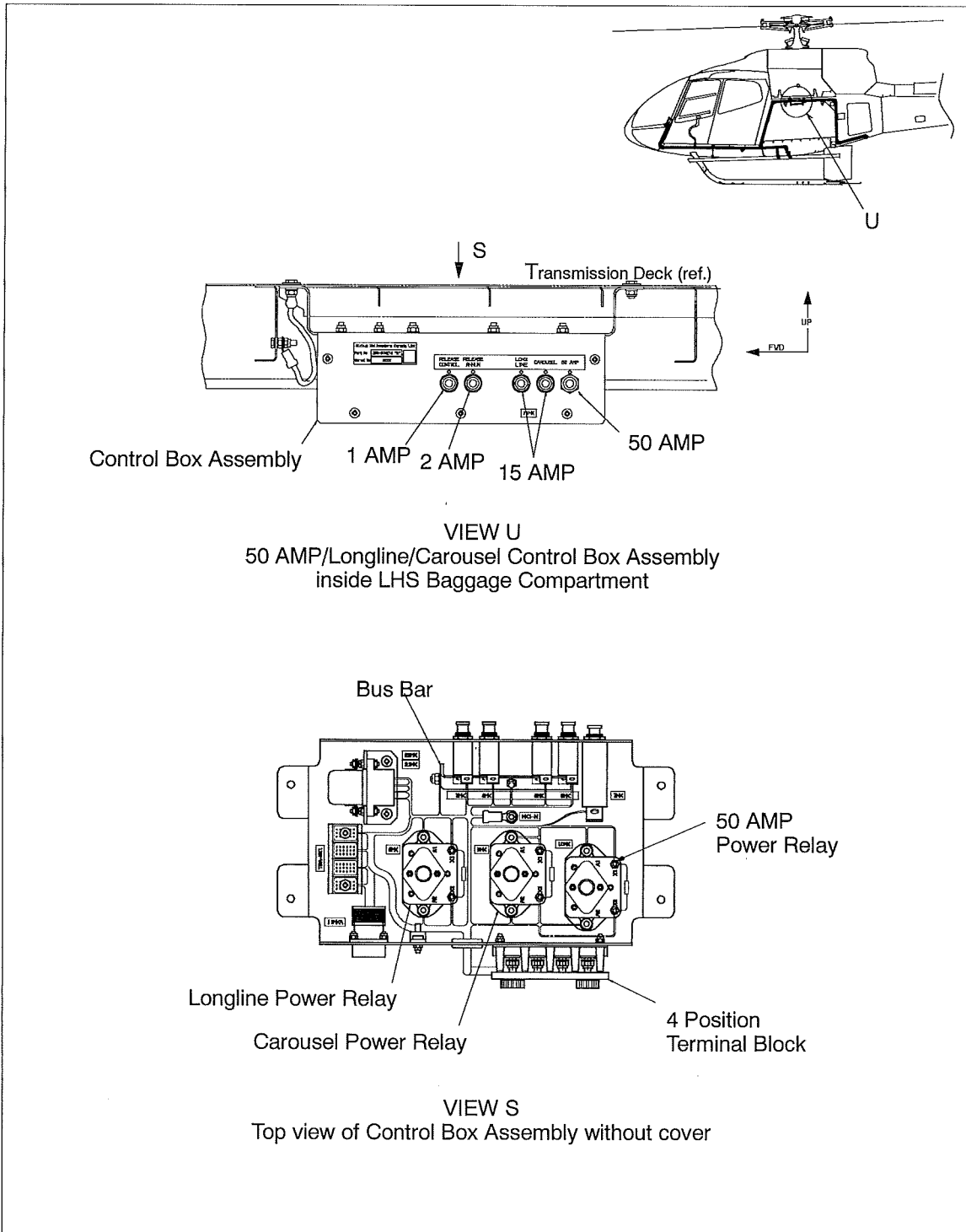


Figure 4 50 AMP/Longline/Carousel Control Box Assembly

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1. GENERAL (unapproved) (continued)

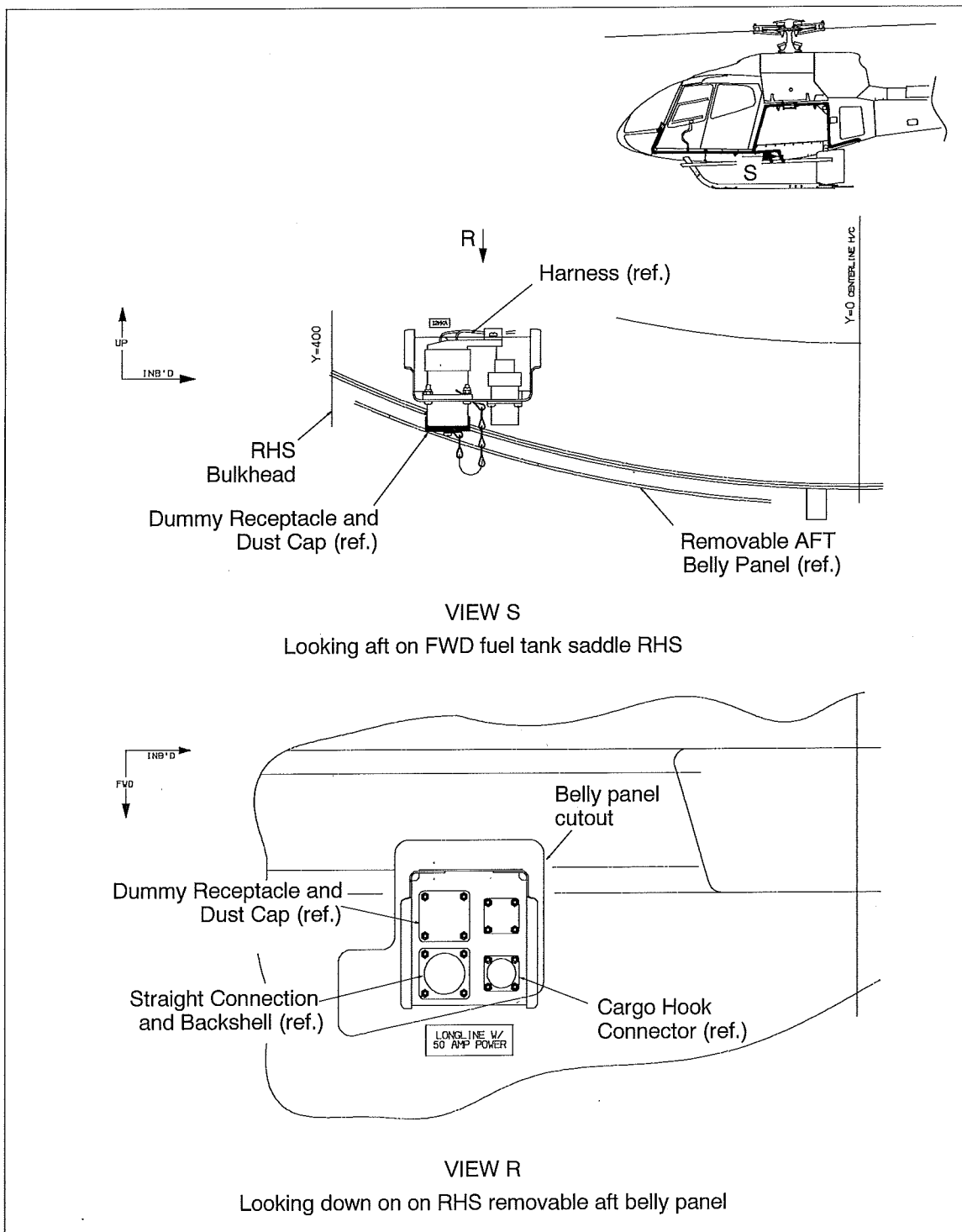


Figure 5 50 AMP Power Supply Belly Connector

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1. GENERAL (unapproved) (continued)

Abbreviations and Definitions

ABBREVIATION	DEFINITION
A	Ampere
AMP	Ampere
ADS	Avionics Design Services
AH	Airbus Helicopters (France)
AHCA	Airbus Helicopters Canada Limited
A/W	Airworthiness
Acc'd	Accepted
App'd	Approved
CAR	Canadian Aviation Regulations
DAPM	Design Approval Procedures Manual
e.g.	for example
FMS	Flight Manual Supplement
LHS	Left Hand Side
L. Line	Longline
MOD	Modification
P/N	Part Number
ref.	reference
Rev.	Revision
RHS	Right Hand Side
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation

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2. LIMITATIONS

a. Placards

There is one placard 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 in clear view of pilot.
Position may vary depending on other optional equipment
installed. Refer to Section 1, Figure 1.

3. EMERGENCY PROCEDURES

a. Electrical Longline Load Jettisoning Failure

• Longline Load Jettisoning Failure

Cargo Release Push Button - Actuate to release load.
(Refer to Section 1, Figure 2)

4. NORMAL PROCEDURES

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 Section 1, Figure 3.

Once armed, the system can be operated using momentary switches on the pilot's cyclic. A momentary switch located on the pilot's cyclic grip activates power for the Carousel. Refer to Section 1, Figure 2.

NOTE: The ammeter should be monitored during 50 AMP operation. A label repeating this advisory is attached to the Instrument Panel in clear view of the pilot. Refer to Section 1, 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 System:

Breakaway Electrical Connector (supplied by operator) - Correct operation (Refer to Section 1, Figure 1)

Pilot's Cyclic Longline /Carousel System Operation (Refer to Section 1, Figures 2 and 3)

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

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4. **NORMAL PROCEDURES** (continued)

Pilot's Cyclic 50 AMP Power System Operation
(Refer to Section 1, Figures 2 and 3)

- | | |
|--|--|
| Battery | - ON |
| 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 Momentary switch | - Press and hold as required: power is activated while pressed |
| 50 AMP switch | - Press; OFF, AMBER armed light goes off, Green indicator light remains on |
| Battery | - OFF |

b. **Engine Starting**

No change.



5. PERFORMANCE DATA

No change.

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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

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