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FAA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT

FOR

STEERABLE LANDING LIGHT

ON

Bell Helicopter Textron
Model 407 Helicopters

REGISTRATION NO. _____

SERIAL NO. _____

This supplement shall be attached to this Model 407 Basic Rotorcraft Flight Manual when the AERONAUTICAL ACCESSORIES, INC. P/N F48-13000-01 (FADEC Relocation), F48-13000-07 (Pulselite), F48-13000-08 (Quiet Cruise), or F48-13000-12 (Standard) is installed in accordance with STC No. SR09239RC.

The information contained herein supplements the information of the Basic Rotorcraft Flight Manual only in those areas listed herein. For limitations, procedures, and performance data not contained in this supplement, consult the Basic Rotorcraft Flight Manual and applicable Rotorcraft Flight Manual Supplements.

FAA Approved:


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Date: JUN 30 2010

F09-62003, Rev. C
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**AERONAUTICAL ACCESSORIES, INC.
Rotorcraft Flight Manual Supplement for
Steerable Landing Light on Bell Model 407 Helicopters**

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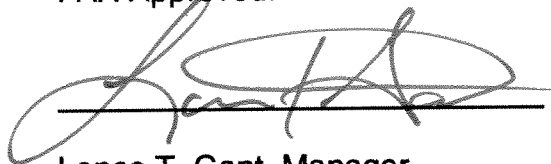
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LOG OF REVISIONS

Revision No.	Date	Description	Pages
I/R	03/16/00	Initial Release	All
A	06/23/00	This Revision A is applicable to S/N 53019 <u>only</u> . Revised Page No. of Figure 1. Revised Paragraphs A., B., and C. to reflect SRCH LT in lieu of LDG LT. Deleted paragraph referring to fixed landing light and replaced Figure 1 to delete LDG LT switch -Signed by: Lou Vargo, AFW FSDO	All 3 4 6
B	06/27/00	Revised basic release to reflect nomenclature change from LANDING LIGHT to FORWARD RECOGNITION LIGHT and from SEARCH LIGHT to LANDING LIGHT -Signed by: Carl Mittag, ASW-170	All
C	04/03/06	Reformatted document to AAI standard Deleted Section 1.6. Weight and Center of Gravity from Section 1: Limitations Revised document to include F48-13000-01 (FADEC Relocation), F48-13000-07 (Pulselite), F48-13000-08 (Quiet Cruise), and F48-13000-12 (Standard) variant Normal Procedures Corrected step numbers in Section 2-10. Descent and Landing and Section 2-11. Engine Shutdown Revised system description in Manufacturer's Data section to include more detailed information Replaced Figure 1 and added Figures 2 thru 5	All — 6 6 8 9 – 13

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SECTION 1: LIMITATIONS

1-1. INTRODUCTION

The Steerable Landing Light must be operational for flight operations requiring an operative electric landing light.

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SECTION 2: NORMAL PROCEDURES

2-4. INTERIOR AND PRESTART CHECK

FADEC Relocation Installation

- 8. FWD REC switch – OFF
- 8a. LDG LT – STOW

Pulselite / Quiet Cruise / Standard Installation

- 8. FORWARD RECOG LIGHT switch – OFF
- 8a. LANDING LIGHT switch – STOW

2-9. IN-FLIGHT OPERATIONS

FADEC Relocation Installation

- 7. FWD REC LT switch – As desired
- 8. LDG LT switch – As desired

Pulselite / Quiet Cruise / Standard Installation

- 7. FORWARD RECOG LIGHT switch – As desired
- 8. LANDING LIGHT switch – As desired

2-10. DESCENT AND LANDING

FADEC Relocation Installation

- 6. FWD REC LT switch – As desired
- 6a. LDG LT switch – As desired

Pulselite / Quiet Cruise / Standard Installation

- 6. FORWARD RECOG LIGHT switch – As desired
- 6a. LANDING LIGHT switch – As desired

2-11. ENGINE SHUTDOWN

FADEC Relocation Installation

- 4. FWD REC LT switch – OFF
- 4a. LDG LT switch – STOW

Pulselite / Quiet Cruise / Standard Installation

- 4. FORWARD RECOG LIGHT switch – OFF
- 4a. LANDING LIGHT switch – STOW

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SECTION 3: EMERGENCY / MALFUNCTION PROCEDURES

No change from basic manual.

SECTION 4: PERFORMANCE

No change from basic manual.

SECTION 5: WEIGHT AND BALANCE

Actual weight and balance shall be determined after installation of the Steerable Landing Light and ballast installed, if necessary, to return the C.G. to within allowable limits.

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Manufacturer's Data

SYSTEM DESCRIPTION

AERONAUTICAL ACCESSORIES, INC. **STEERABLE LANDING LIGHT**, P/N F48-13000-01 (FADEC Relocation), F48-13000-07 (Pulselite), F48-13000-08 (Quiet Cruise), and F48-13000-12 (Standard) along with a fixed landing light that is part of the installation, is located in a flush-mounted panel on the lower surface of the helicopter nose. This installation is designed to provide terrain and obstacle illumination during low level flight and landing. The fixed landing light provides close-range illumination of terrain and obstacles directly ahead of the helicopter. The Steerable Landing Light also provides close-range illumination ahead of the helicopter, but can be rotated (pointed) approximately 90° to either side of helicopter centerline and from straight to approximately 90° below straight ahead. The F48-13000-07 (Pulselite) Steerable Landing Light installation provides the capability for the fixed landing light to operate as a pulsing recognition light.

The Steerable Landing Light is powered from the 28 VDC bus and is protected by a 25 amp power circuit breaker and by a 5 amp control circuit breaker. These circuit breakers are located in the overhead circuit breaker panel and are labeled **LDG LT POWER** and **LDG LT CONTROL** respectively (see Figure 1). Control of the Steerable Landing Light is provided by the **LDG LT** (Alt: **LANDING LIGHT**) three-position **ON / OFF / STOW** switch and the momentary four-position **EXT / RETR / LEFT / RIGHT** (Alt: **EXTEND / RETRACT / LEFT / RIGHT**) thumb switch (see Figures 2 thru 5). The **ON / OFF** switch positions turn the lamp on and off and the **STOW** position stows the light respectively. The momentary four-position **EXT / RETR / LEFT / RIGHT** (Alt: **EXTEND / RETRACT / LEFT / RIGHT**) thumb switch controls the extension / retraction function of the light and the left / right rotation of the light. The Steerable Landing Light unit includes a sealed beam lamp, left / right rotation motor, extend / retract motor, control relays, and limit switches.

The fixed landing light is powered from the 28 VDC bus and is protected by a 5 amp circuit breaker. This circuit breaker is located in the overhead circuit breaker panel and is labeled **FWD RECOG LT POWER** (see Figure 1).

Control of the fixed landing light on the F37-15001-01 Collective Box Modification (FADEC Relocation) is provided by a two-position switch labeled **FWD REC** with an **ON/OFF** position (see Figure 2). Control of the fixed landing light on the F37-15001-04 Collective Box Modification (Quiet Cruise) and F37-15001-05 Collective Box Modification (Standard) is provided by a two-position switch labeled **FORWARD RECOG LIGHT** with an **ON/OFF** position (see Figures 3 and 4). Control of the fixed landing light on the F37-15001-03 Collective Box Modification (Pulselite) is provided by a three-position switch labeled **FORWARD RECOG LIGHT** with an **ON/OFF/PULSE** position (see Figure 5).

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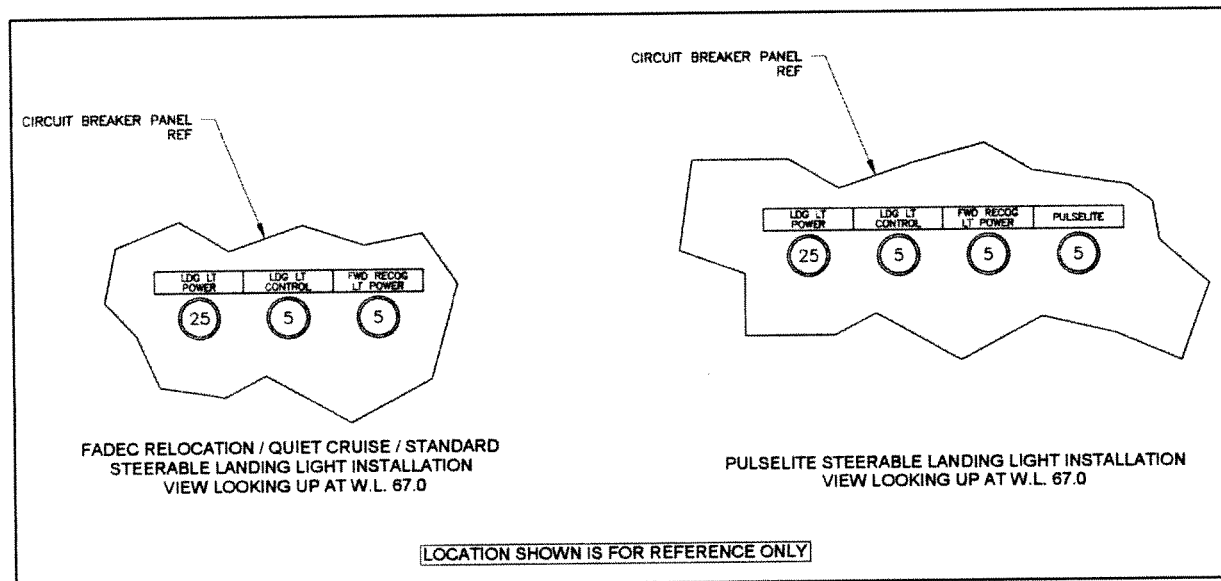


FIGURE 1 – Circuit Breaker Installation

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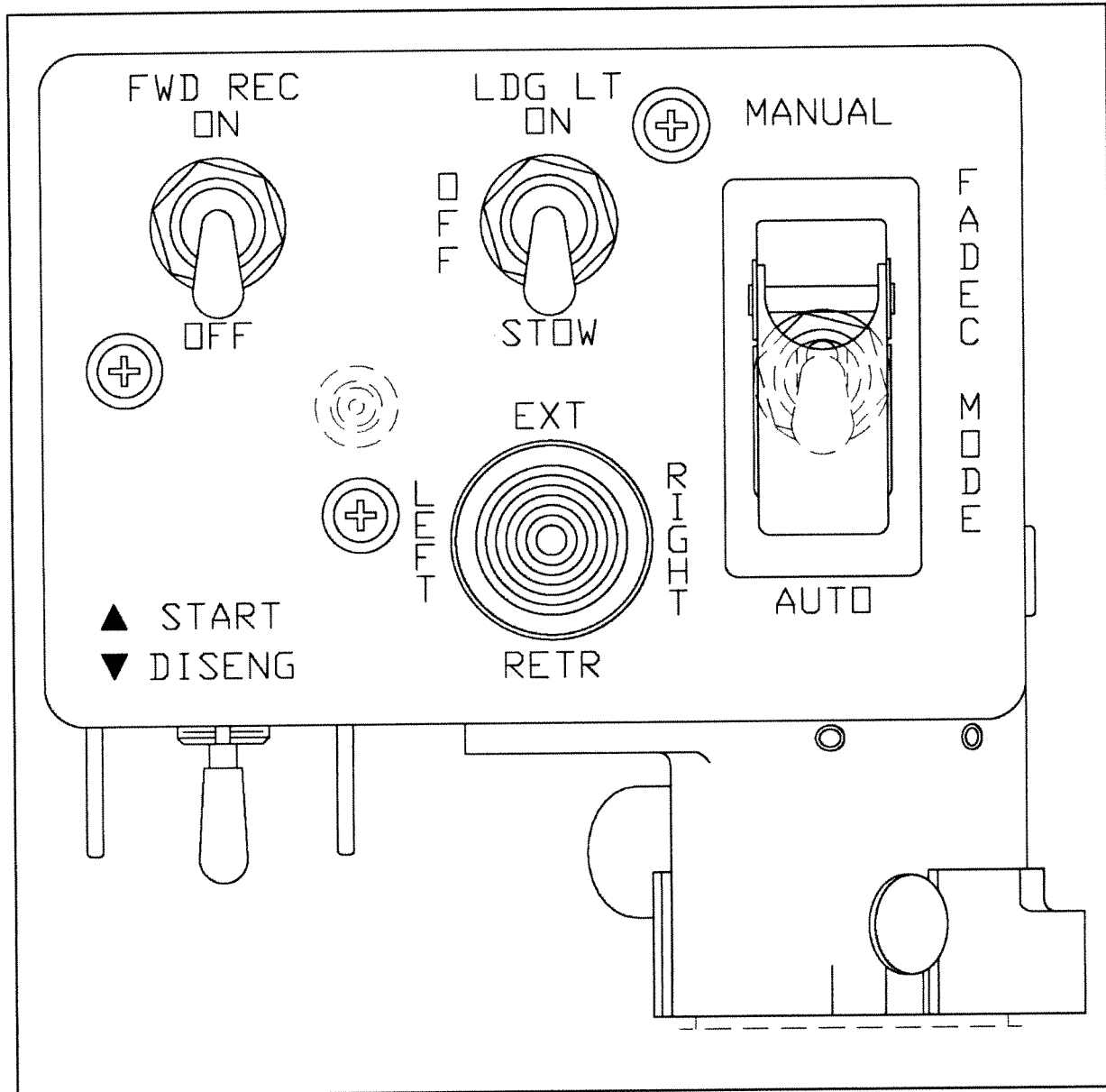


FIGURE 2 – Collective Box Modification (F37-15001-01)
F48-13000-01 FADEC Relocation Installation

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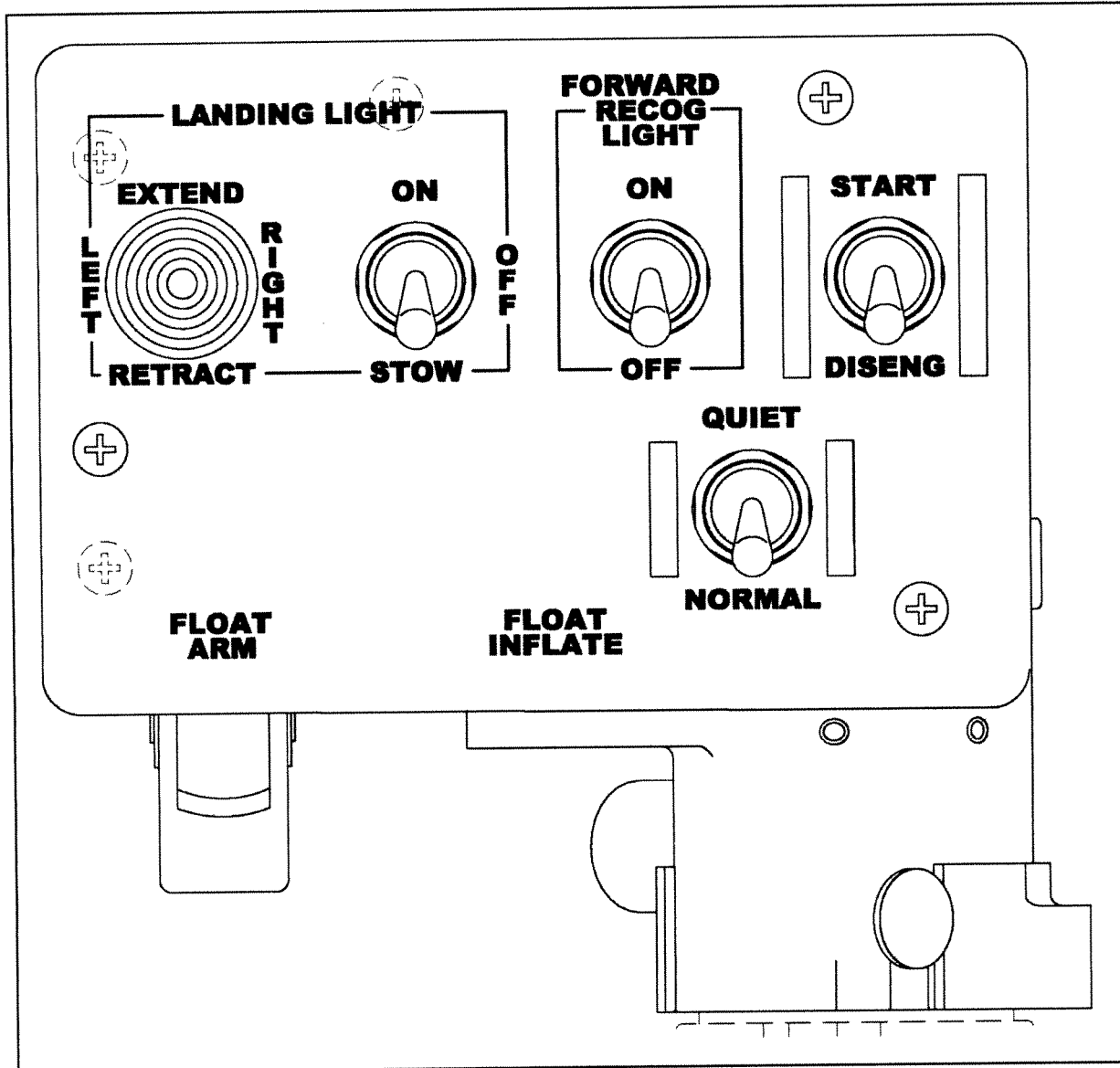


FIGURE 3 – Collective Box Modification (F37-15001-04)
F48-13000-08 Quiet Cruise Installation

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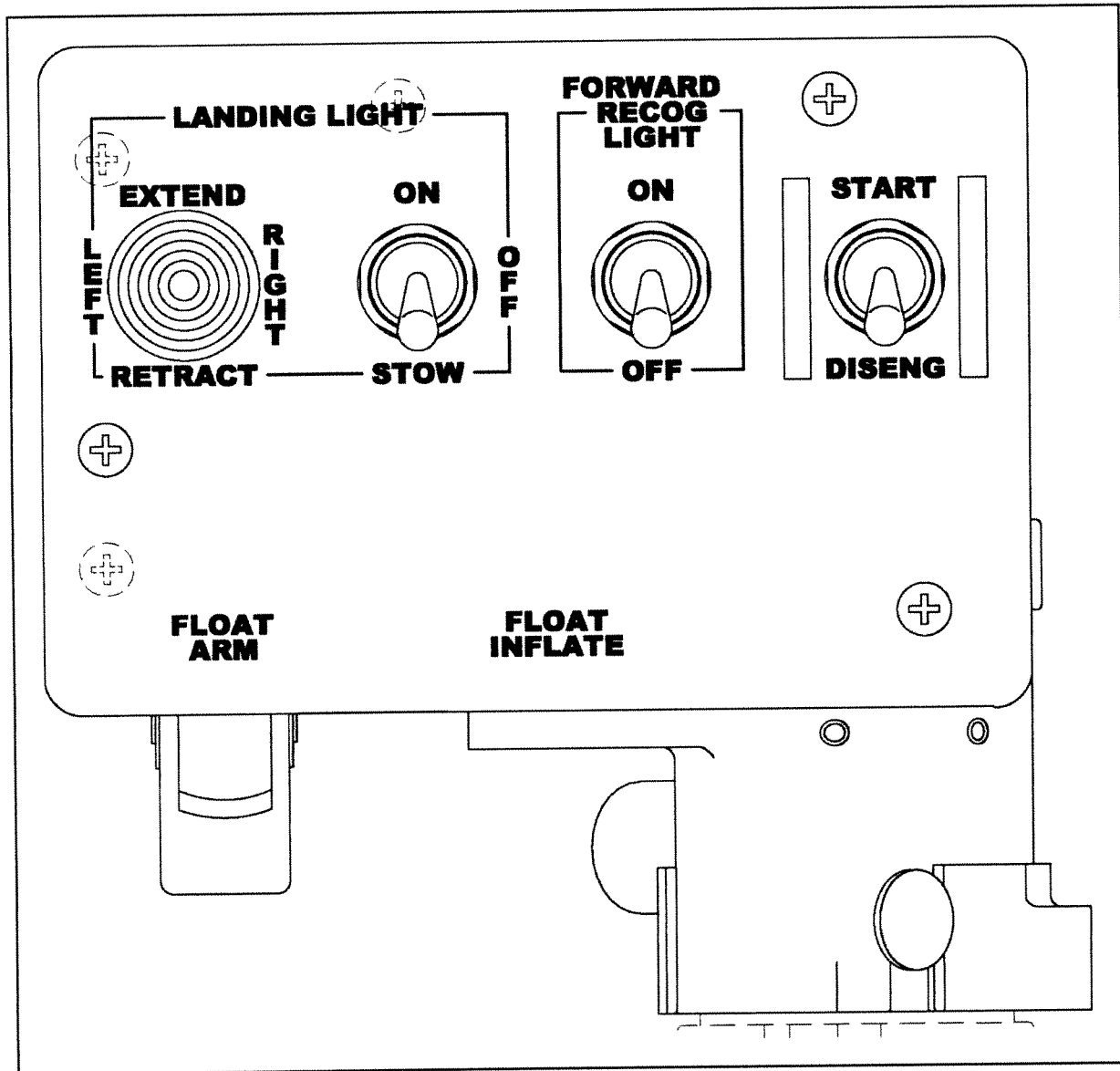


FIGURE 4 – Collective Box Modification (F37-15001-05)
F48-13000-12 Standard Installation

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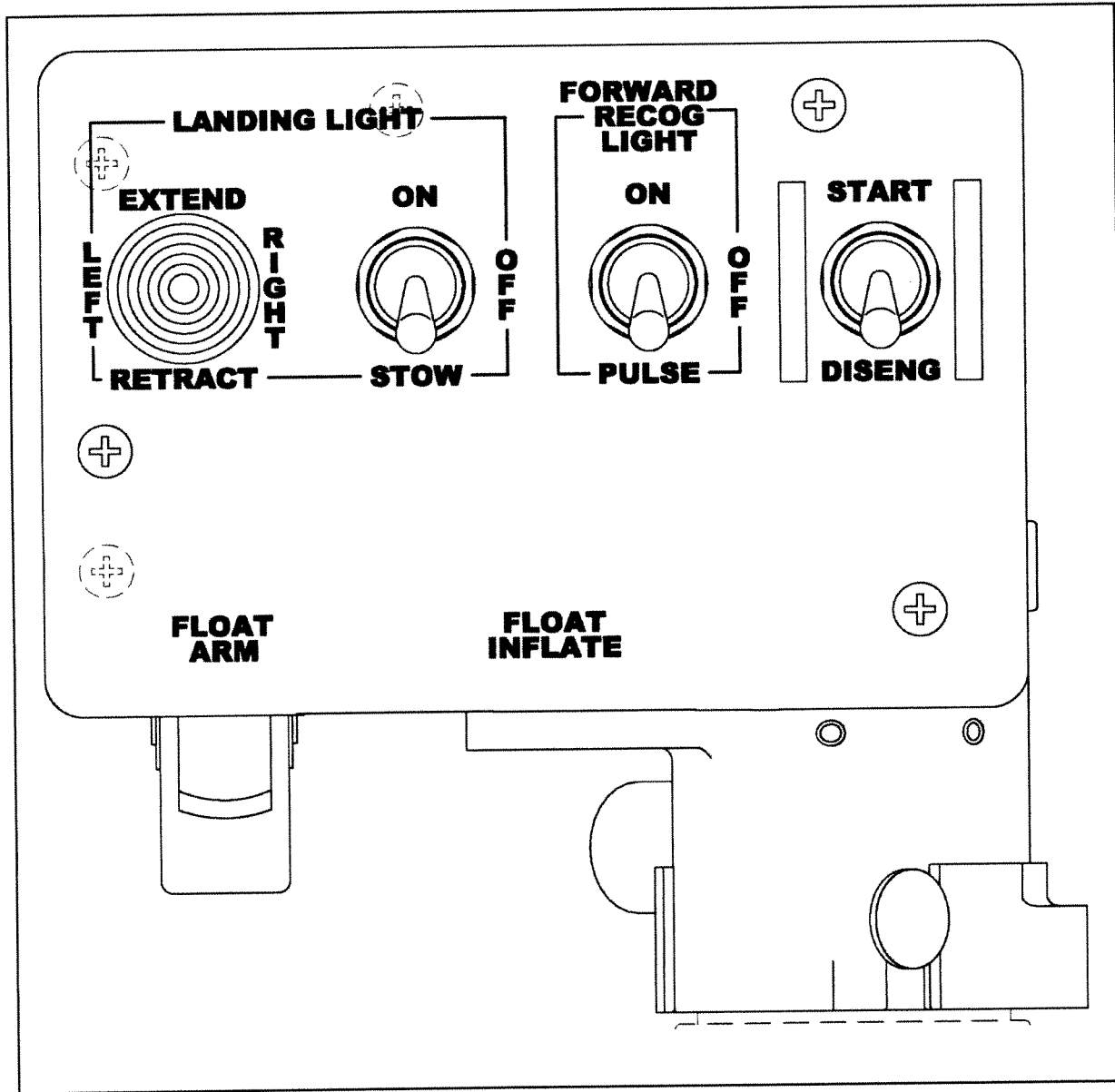


FIGURE 5 – Collective Box Modification (F37-15001-03)
F48-13000-07 Pulselite Installation