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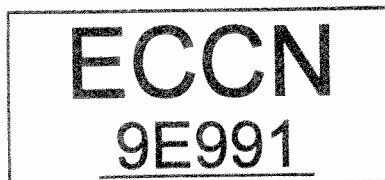
P.O. BOX 3689 BRISTOL, TENNESSEE 37625-3689 USA
TELEPHONE: 423-538-5151 TOLL FREE: 800-251-7094
TELEFAX: 423-538-8469 E-MAIL: sales@aero-access.com
techsupport@aero-access.com

INSTRUCTIONS for CONTINUED AIRWORTHINESS for STEERABLE LANDING LIGHT STC. SR09239RC

**For
BELL HELICOPTER TEXTRON MODEL 407 HELICOPTERS**

**Report No. F08-72000
Revision D**

January 25, 2010



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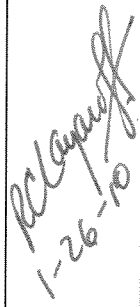
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INSTRUCTIONS for CONTINUED AIRWORTHINESS STEERABLE LANDING LIGHT

LOG OF REVISIONS

Date	Revision	Description	Affected Pages	Approved / Date	Accepted / Date
4/02/98	NR	Original Release	All	—	—
3/04/03	A	Revised document to AAI format	All	—	—
4/09/03	B	Added P/N F48-13000-08 Added P/N F37-15001-04 Added Figures 9 – 10 Revised 1.0, 3.0 Revised 7.0, 11.0 Revised Figures 1 – 8	5, 11 5, 22 24, 25 5, 5 – 6 10, 11 – 15 16 – 23		
4/29/05	C	Added F48-13000-12 Steerable Landing Light (Standard) kit effectivity Revised format of 4.1 Annual Inspection and Appendix A Revised Parts List tables, Tables 1 and 2 Revised Figures 2 and 3 Added new Figure 8 Revised Figures 9 thru 11	All 6 – 7, 27 – 28 11 – 14 16, 17 22 23 – 25	—	—
01/25/10	D	Revised document to current format; corrected document formatting and typographical errors Removed daily/preflight inspection requirements; revised annual inspection instructions (Section 4.1) Added conditional inspection requirements (Section 4.2) Revised step 1 of repair instructions to add lamp P/N and reference removal instructions (Section 4.4) Revised removal and replacement instructions to reflect design changes (Section 6.0) Added weight and balance section (Section 10.0) Revised parts breakdown tables to reflect design changes and incorporate current document formatting (Table 1 thru Table 3) Revised Figure 1 thru Figure 8 for clarity and to incorporate current document formatting Revised Figure 9 thru Figure 11 to reflect design changes Replaced Annual Inspection Record	All 9 – 10 10 10 12 – 15 15 16 – 20 21 – 26 27 – 29 31 – 32	 26 JAN - 6 APR 2010	 1-26-10

LIST OF EFFECTIVE PAGES

All pages contained herein are at latest revision shown in Log of Revisions.

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1.0 INTRODUCTION

These instructions provide the information necessary to inspect and maintain the **AERONAUTICAL ACCESSORIES, INC. (AAI) STEERABLE LANDING LIGHT** P/N F48-13000-01 (FADEC Relocation), F48-13000-07 (Pulselite), F48-13000-08 (Quiet Cruise), and F48-13000-12 (Standard) on Bell Helicopter Textron model 407 helicopters, installed in accordance with STC No. SR09239RC.

1.1 DISTRIBUTION

These instructions are provided with each Steerable Landing Light. Any airworthiness or flight safety revisions will be immediately made available to all affected owners.

1.2 REVISION

A Log of Revision section is included in these instructions and will be utilized to document all changes. Change recommendations should be submitted to:
Aeronautical Accessories Inc.
P.O. Box 3689
Bristol, TN 37625-3689
Email: techsupport@aero-access.com

2.0 DESCRIPTION

The 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 (see Figure 1). 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.

3.0 CONTROL, OPERATION INFORMATION

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 2). 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 5 thru 8). 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** respectively (see Figure 2). Control of the fixed landing light on the F37-15001-01, F37-15001-04, and F37-15001-05 Collective Box Modification is provided by a two-position switch. This switch is labeled **FWD REC** (Alt: **FWD RECOG LIGHT**) with an **ON/OFF** position (see Figures 5, 7, and 8). Control of the fixed landing light on the F37-15001-03 Collective Box Modification is provided by a three-position switch. This switch is labeled **FWD RECOG LIGHT** with an **ON/OFF/PULSE** position (see Figure 6).

4.0 MAINTENANCE INSTRUCTIONS

4.1 ANNUAL INSPECTION

The Steerable Landing Light shall receive an Annual Operational Check consisting of the following items. Inspection may be incorporated into progressive maintenance programs, as appropriate.

NOTE

Removal of the Steerable Landing Light from helicopter is not required for inspection. If any damage is noted during the inspection, refer to Section 4.4 Repair.

1. Verify that both **LDG LT POWER** and **LDG LT CONTROL** circuit breakers, located in overhead circuit breaker panel, are closed.
2. Hold four-position thumb-switch, located in pilot's collective box, forward in the **EXT** (Alt: **EXTEND**) position. Verify that the Steerable Landing Light drives to a 90° position (approximate) at full travel.
3. At this time check Steerable Landing Light unit for security of attachment and for general overall condition.
4. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch, located in pilot's collective box to **ON**. Verify that Steerable Landing Light illuminates.
5. Hold four-position thumb-switch aft in the **RETR** (Alt: **RETRACT**) position. Verify that Steerable Landing Light retracts completely.
6. Hold four-position thumb-switch forward in the **EXT** (Alt: **EXTEND**) position until Steerable Landing Light is partially extended.
 - a. Hold four-position thumb-switch in the **LEFT** position. Verify that light rotates full travel to the left.
 - b. Hold four-position thumb-switch in the **RIGHT** position. Verify that light rotates full travel to the right.
7. Using the four-position thumb-switch, center the light pointing forward.
8. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch to **OFF**. Verify that light goes off.
9. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch to **STOW**. Verify that light retracts to stowed position.

10. Verify that both **LDG LT POWER** and **LDG LT CONTROL** circuit breakers are closed.
11. Verify that the **FWD REC** (Alt: **FWD RECOG LIGHT**) circuit breaker, located in overhead circuit breaker panel, is closed.
12. Set **FWD REC** (Alt: **FWD RECOG LIGHT**) switch, located in the pilot's collective box, to **ON**. Verify that fixed landing light illuminates.
13. Set **FWD REC** (Alt: **FWD RECOG LIGHT**) switch to **OFF**. Verify **FWD REC** (Alt: **FWD RECOG LIGHT**) circuit breaker closed.
14. Operational check complete. Utilize the Inspection Record provided in Appendix A to document completion.

4.2 CONDITIONAL INSPECTIONS

A conditional inspection does not occur at a specified time. It is caused by known or suspected unusual events, malfunctions, or defects. The FADEC Mode Switch Relocation shall receive a conditional inspection in cases of known or suspected rotor strikes, hard landings, or lightning strikes.

1. Complete the Annual Inspection (Operational Check) detailed in Section 4.1.

4.3 DAMAGE LIMITS

Any parts that are discovered to be damaged or inoperable shall be replaced.

4.4 REPAIR

Allowable repairs are limited to removal and replacement of any damaged or inoperable components of this installation.

1. If the Steerable Landing Light fails an operational check (with the exception of a burned out lamp), remove 148-13000-03 Light Assembly per section 6.1.1 and return to Aeronautical Accessories, Inc. for repair or replacement.
2. If the Steerable Landing Light lamp is burned out, it may be replaced. Remove the three screws securing the lamp retaining ring, disconnect the lamp, and install a new lamp. Reinstall retaining ring. Verify that lamp illuminates.
3. If the fixed landing light lamp is burned out it may be replaced by removing the four screws securing the lamp, disconnecting the electrical connector, unsoldering the two leads from the lamp, soldering the two leads to a new lamp, reconnecting the electrical connector, and reinstalling the lamp using the four screws previously removed. Verify that lamp illuminates.

4.5 CLEANING REQUIREMENTS

Any dirt, sand, or debris should be cleaned from the unit using a mild, nonabrasive soap. Wipe surface dry with a nonabrasive cloth or paper before cleaning agent evaporates.

5.0 TROUBLESHOOTING INFORMATION

Refer to 4.4 Repair for basic repair and troubleshooting information. If the Steerable Landing Light fails any operational checks (except for a burned out lamp), or is beyond basic repair, remove the Steerable Landing Light Unit and return to Aeronautical Accessories, Inc. for repair or replacement.

6.0 REMOVAL AND REPLACEMENT INFORMATION**6.1 REMOVAL INFORMATION****6.1.1 148-13000-03 LIGHT ASSEMBLY FROM HELICOPTER**

1. Unlatch external power door and swing door up and out of the way (see Figure 3).
2. Remove and retain the (13) MS27039-1-09 Screws and NAS1149D0332J Washers securing the 148-13000-03 Light Assembly to helicopter.
3. Carefully remove Light Assembly from helicopter. Disconnect the electrical connector from the Light Assembly.
4. Light Assembly removal complete.

6.1.2 01-0770346-03 FIXED LANDING LIGHT FROM 148-13000-03 LIGHT ASSEMBLY**NOTE**

Fixed Landing Light removal from 148-13000-03 Light Assembly may be accomplished without removing Light Assembly from helicopter.

1. Remove and retain the (4) MS35206-235 Screws securing the 01-0770346-03 Light (Fixed Landing Light) to the 148-13000-31 Spacer and 148-13000-03 Light Assembly. (See Figure 4.)
2. Carefully remove Fixed Landing Light and Spacer from Light Assembly; retain Spacer. Disconnect the electrical connector from the Fixed Landing Light.
3. Fixed Landing Light removal complete.

**6.1.3 148-13000-06 STEERABLE LANDING LIGHT FROM 148-13000-03 LIGHT
ASSEMBLY****NOTE**

Steerable Landing Light removal from 148-13000-03 Light Assembly may be accomplished **ONLY** with Light Assembly removed from helicopter. Perform 148-13000-03 Light Assembly removal from helicopter per section 6.1.1 prior to Steerable Landing Light removal.

1. Remove and retain the (2) MS27039-0813 Screws and NAS1149DN816J Washers and (2) MS27039-0808 Screws and NAS1149DN816J Washers securing the 148-13000-06 Light (Steerable Landing Light) and the 148-13000-17 and 148-13000-19 Spacers to the 148-13000-05 Doubler Assembly. (See Figure 4.)
2. Label for reinstallation; then disconnect the electrical wiring from the Steerable Landing Light Unit. (See applicable reference wiring diagram, Figure 9, 10, or 11.)
3. Remove the Steerable Landing Light and 2 Spacers. Retain Spacers. Steerable Landing Light removal complete.

6.2 INSTALLATION INFORMATION**6.2.1 148-13000-06 STEERABLE LANDING LIGHT TO 148-13000-03 LIGHT ASSEMBLY**

1. Using the retained (2) MS27039-0813 Screws and NAS1149DN816J Washers and (2) MS27039-0808 Screws and NAS1149DN816J Washers, secure the 930-500-25-1 Light (Steerable Landing Light) and the 148-13000-17 and 148-13000-19 Spacers to the 148-13000-05 Doubler Assembly. (See Figure 4.)
2. Connect electrical wiring (in accordance with the labeling attached at removal) to the Steerable Landing Light Unit.
3. Steerable Landing Light to Light Assembly installation complete.

6.2.2 01-0770346-03 FIXED LANDING LIGHT TO 148-13000-03 LIGHT ASSEMBLY

1. Connect the electrical connector to the fixed landing light.
2. Place the 01-0770346-03 Light (Fixed Landing Light) and 148-13000-31 Spacer into the Light Assembly (see Figure 4).
3. Use the retained (4) MS35206-235 Screws to secure the Fixed Landing Light and 148-13000-31 Spacer to the 148-13000-03 Light Assembly.
4. Fixed Landing Light to Light Assembly installation complete.

6.2.3 148-13000-03 LIGHT ASSEMBLY TO HELICOPTER

1. Unlatch external power door and swing door up and out of the way (see Figure 3).
2. Connect the electrical connector to the Light Assembly.
3. Use the retained (13) MS27039-1-09 Screws and NAS1149D0332J Washers to secure the 148-13000-03 Light Assembly to helicopter
4. Latch the external power door (see Figure 3). Light Assembly installation to helicopter complete.

7.0 SPECIAL TOOLS NEEDED

None

8.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type design change.

9.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type design change.

10.0 WEIGHT AND BALANCE

Negligible weight change.

11.0 PARTS BREAKDOWN

Tables 1 thru 3 contain Parts Breakdown data for the Aeronautical Accessories, Inc. Bell model 407 Steerable Landing Light installation.

The column Availability Code (AV Code) specifies the procurement status for each part. The codes to identify if a part is procurable, procedure details to get an assembly or local manufacture code are as follows:

AV Code	Details
0	Nonprocurable part
1	Procurable part
2	Procure as detail parts only
3	Procurable as Next Higher Assembly
4	Local manufacture. Contact AAI Product Support Engineering (PSE)
5	Part replacement requires a fixture or special equipment. Contact AAI PSE
6	Non-stock procurable part

INSTRUCTIONS for CONTINUED AIRWORTHINESS STEERABLE LANDING LIGHT

**TABLE 1. PARTS BREAKDOWN,
F48-13000-01 LANDING LIGHT INSTALLATION (FADEC RELOCATION) /
F48-13000-07 STEERABLE LANDING LIGHT INSTALLATION (PULSELITE) /
F48-13000-08 STEERABLE LANDING LIGHT INSTALLATION (QUIET CRUISE) /
F48-13000-12 STEERABLE LANDING LIGHT INSTALLATION (STANDARD)**

Qty -01	Qty -07	Qty -08	Qty -12	Part Number	Description	AV Code
1				F48-13000-03	Relay Relocation Installation	1
1				F48-13000-05	Circuit Breaker Installation	1
1				F48-13000-09	Wiring Kit	1
		1	1	F48-13000-10	Wiring Kit	1
	1			F48-13000-11	Wiring Kit	1
1	1	1	1	F37-15001	Modification Drawing	1
1				F37-15001-01	Collective Box Modification	1
	1			F37-15001-03	Collective Box Modification	1
		1		F37-15001-04	Collective Box Modification	1
			1	F37-15001-05	Collective Box Modification	1
1	1	1	1	F48-13000	Installation Drawing	1
— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	F48-43000-01	Plate Assembly	0
1	1	1	1	F48-43000-11	Plate	1
	1	1	1	F48-43000-13	Doubler	1
	1			F48-43000-15	Doubler	1
1	1	1	1	F74-12031	Wiring Diagram	1
1				F74-22001	Wiring Diagram	1
1				F82-12002	Modification Drawing	1
1				F82-12002-01	FADEC Switch Relocation	1
1	1	1	1	148-13000-03	Light Assembly	1
1	1	1	1	099-050-121	Adhesive	1
1	1	1	1	099-050-222	Sealant	1
1	1	1	1	206-796-123	Decal, LDG LT CONTROL	1
1	1	1	1	206-796-124	Decal, LDG LT POWER	1
1	1	1	1	206-796-125	Decal, FWD RECOG LT POWER	1
	1			206-796-126	Decal, PULSELITE	1
	1			1220/2410-2	Pulselite Control Unit	1
2ft	2ft	2ft	2ft	M6855/4-10H14	Flex Hose (P/N 124-6J superseded)	1
1	1	1	1	1-480318-0	Connector	1
1	1	1	1	1-480319-0	Connector	1
1	1	1	1	1N4005	Diode	1
2	2	2	2	320619	Ring Terminal	1
1	2	1	1	35108	Ring Terminal	1
7	13	12	12	36152	Ring Terminal	1
2	3	2	2	36160	Ring Terminal	1
1	1	1	1	50-007W45	Stud	1
1	1	1	1	50-009-2	Grommet	1
2	2	2	2	60617-1	Socket	1

AERONAUTICAL ACCESSORIES, INC.

INSTRUCTIONS for CONTINUED AIRWORTHINESS STEERABLE LANDING LIGHT

**TABLE 1. PARTS BREAKDOWN,
F48-13000-01 LANDING LIGHT INSTALLATION (FADEC RELOCATION) /
F48-13000-07 STEERABLE LANDING LIGHT INSTALLATION (PULSELITE) /
F48-13000-08 STEERABLE LANDING LIGHT INSTALLATION (QUIET CRUISE) /
F48-13000-12 STEERABLE LANDING LIGHT INSTALLATION (STANDARD)**

Qty -01	Qty -07	Qty -08	Qty -12	Part Number	Description	AV Code
2	2	2	2	60618-1	Pin	1
	2	2	2	AN4-4A	Bolt	1
3	3	3	3	AN525-10R6	Screw	1
— ⁽¹⁾	8	— ⁽¹⁾	— ⁽¹⁾	CCR264SS3-2	Rivet	1
	4	4	4	CR3242-4-2	Rivet	1
	1			GMA3A	Fuse	1
	1			HHT	Fuse Holder	1
1	1	1	1	M81714/60-20-06	Distribution Module	1
4	8	8	8	MS20426AD3-4	Rivet	1
2	2	2	2	MS20470AD3-4	Rivet	1
— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	MS21059L3K	Nut Plate	1
	4			MS21059L3	Nut Plate	1
	2	2	2	MS21075L4N	Nut Plate	1
1	1	1	1	MS21919WDG9	Clamp (Alt: 700-001-25)	1
	1	1	1	MS25244-25	Circuit Breaker	1
	3	2	2	MS26574-5	Circuit Breaker	1
1	5	1	1	MS27039-1-08	Screw	1
13	13	13	13	MS27039-1-09	Screw	1
1	1	1	1	MS35489-149	Grommet	1
2	2	2	2	MS35489-7	Grommet	1
14	18	14	14	NAS1149D0332J	Washer	1
	2	2	2	NAS1149D0432J	Washer	1
3	3	3	3	QS200M10S	Hose Clamp	1
2ft	2ft	2ft	2ft	MS23053/5-204-0	Heatshrink (P/N RNF100 1/8 superseded)	1
1	1	1	1	WSI-4-9	Stand-off	1
2	2	2	2	MS21075L3	Nut Plate	1
1	1	1	1	MS3450W20-16S	Wall Mounting Receptacle	6
1	1	1	1	MS3456W20-16P	Cable Connecting Plug	6

(1) Deleted from installation.

**INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT**

**TABLE 2. PARTS BREAKDOWN,
F48-13000-09 / F48-13000-10 / F48-13000-11 WIRING KIT**

Qty -09	Qty -10	Qty -11	Part Number	Description	AV Code
12ft	19ft	19ft	L3A18	Wire	1
4ft	15ft		L3B18	Wire	1
	4ft		L3C18	Wire	1
8ft	8ft	8ft	L4A18N	Wire	1
	4ft	4ft	L4B18N	Wire	1
15ft	15ft		L4B18	Wire	1
4ft			L4C18	Wire	1
	22ft	22ft	L310A20	Wire	1
19ft	19ft	19ft	L311A20	Wire	1
10ft	10ft	10ft	L311B20	Wire	1
1ft			L311C20	Wire	1
10ft	10ft	10ft	L312A20	Wire	1
15ft	15ft	15ft	L312B20	Wire	1
4ft	4ft	4ft	L312C20	Wire	1
1ft	1ft	1ft	L313A20	Wire	1
10ft	10ft	10ft	L313B20	Wire	1
15ft	15ft	15ft	L313C20	Wire	1
4ft	4ft	4ft	L313D20	Wire	1
10ft	10ft	10ft	L314A20	Wire	1
15ft	15ft	15ft	L314B20	Wire	1
4ft	4ft	4ft	L314C20	Wire	1
10ft	10ft	10ft	L315A20	Wire	1
15ft	15ft	15ft	L315B20	Wire	1
4ft	4ft	4ft	L315C20	Wire	1
10ft	10ft	10ft	L316A20	Wire	1
15ft	15ft	15ft	L316B20	Wire	1
4ft	4ft	4ft	L316C20	Wire	1
22ft	22ft	22ft	L318A12	Wire	1
4ft	4ft	4ft	L318B12	Wire	1
8ft	8ft	8ft	L319A12N	Wire	1
4ft	4ft	4ft	L319B12N	Wire	1
		22ft	PL101A12	Wire	1
		8ft	PL102A12N	Wire	1
		15ft	PL103A18	Wire	1
		15ft	PL104A18	Wire	1
		15ft	PL104B18	Wire	1
		4ft	PL104C18	Wire	1

**INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT**

**TABLE 3. PARTS BREAKDOWN,
F37-15001-01 COLLECTIVE BOX MODIFICATION (FADEC RELOCATION) /
F37-15001-03 COLLECTIVE BOX MODIFICATION (PULSELITE) /
F37-15001-04 COLLECTIVE BOX MODIFICATION (QUIET CRUISE) /
F37-15001-05 COLLECTIVE BOX MODIFICATION (STANDARD)**

Qty -01	Qty -03	Qty -04	Qty -05	Part Number	Description	AV Code
1	1	1	1	099-050-178	Adhesive	
	1	1	1	099-801-115	Switch Button	
	1	1	1	099-816-027	Bracket	
	1	1	1	206-810-010	Switch	
	1		1	407-798-121	Panel	
		1		407-798-122	Panel	
	1			407-799-101	Overlay Panel Assembly	
		1		407-799-102	Overlay Panel Assembly	
			1	407-799-103	Overlay Panel Assembly	
1				F27-23019-01	Illuminated Overlay Panel	
1				F31-43000-01	Housing Assembly	
	1	1	1	F31-43000-03	Housing Assembly	
1				F32-23007-01	Plate Assembly	
1				A218-100646-04	Switch	
4	4	4	4	AN4H3A	Bolt	
2	2	2	2	MS171538	Pin (Alt: MS171539)	
2	2	2	2	MS171532	Spring Pin	
	6	6	6	MS20426AD3-4	Rivet	
	2	2	2	MS20426AD3-5	Rivet	
	1	1	1	MS21071L06	Nut Plate	
	2	2	2	MS21075L06N	Nut Plate	
	2	1	1	MS24523-21	Switch	
		1	1	MS24523-22	Switch	
	2	2	2	MS24693-S2	Screw	
5	5	5	5	MS24694-S3	Screw	
1				MS25224-1	Guard	
2				MS35206-212	Screw	
3				MS35214-28	Screw	
1				MS90310-211	Switch	
1				MS90310-221	Switch	
	1	1	1	MS90335-3	Connector	
	4ft	4ft	4ft	RNF100 1/4	Heatshrink	
1				104	Connector	
1				192-200010-00	Cap	
1	1	1	1	3053	Plug Button	
2	2	2	2	430-015-029-111	Weight (Alt: 430-015-029-109)	

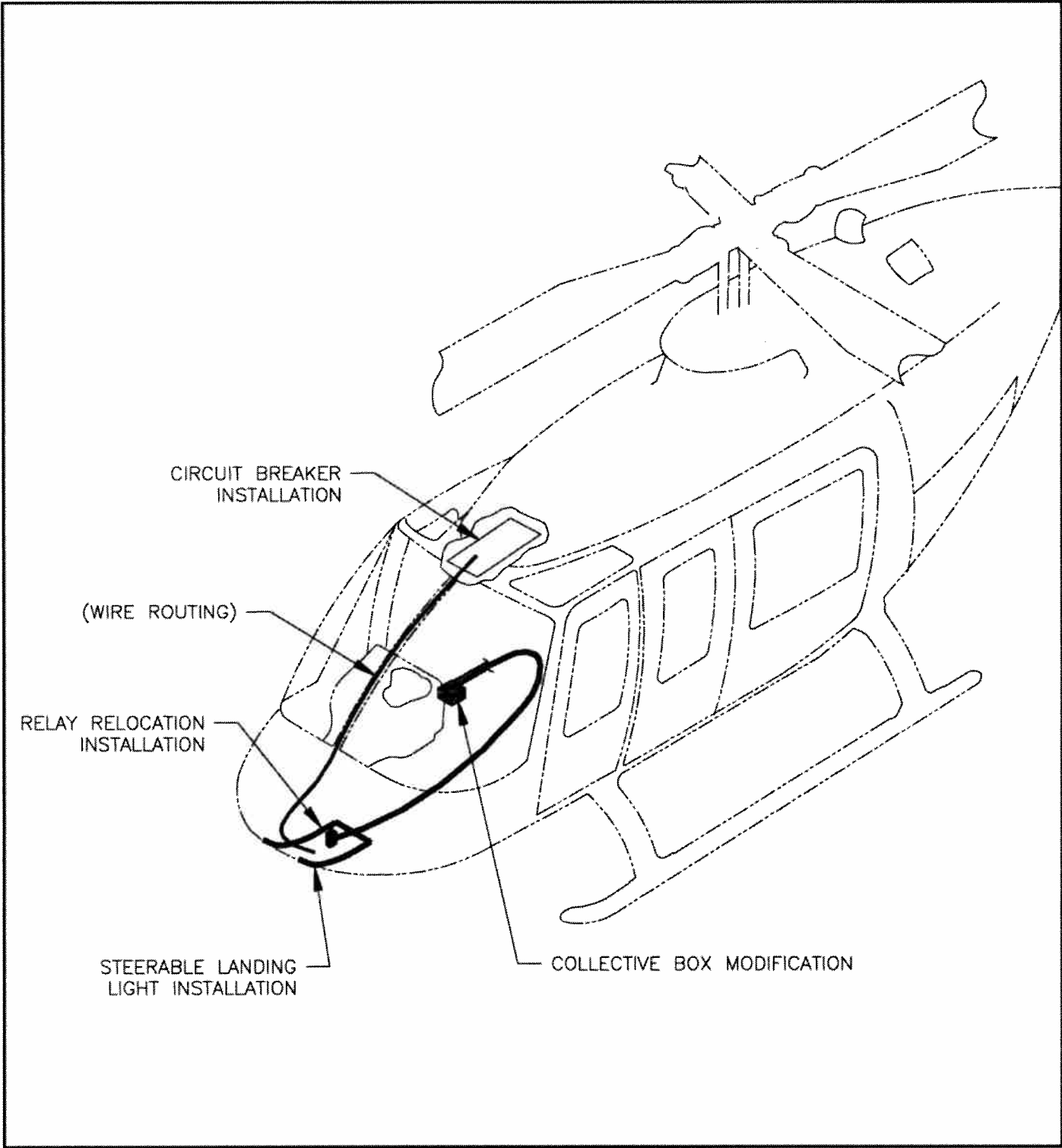


FIGURE 1. EQUIPMENT LOCATIONS

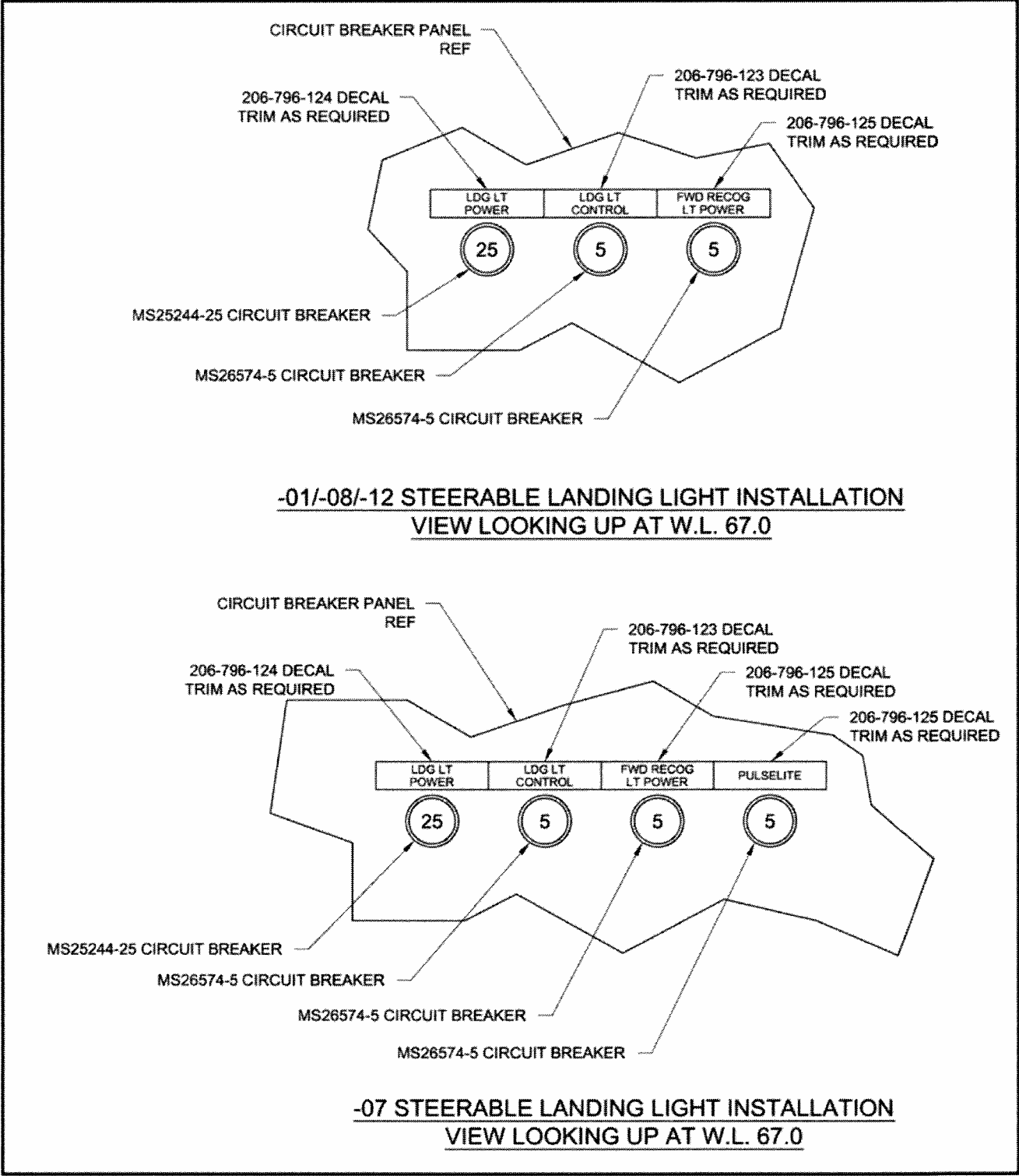


FIGURE 2. CIRCUIT BREAKER INSTALLATIONS

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

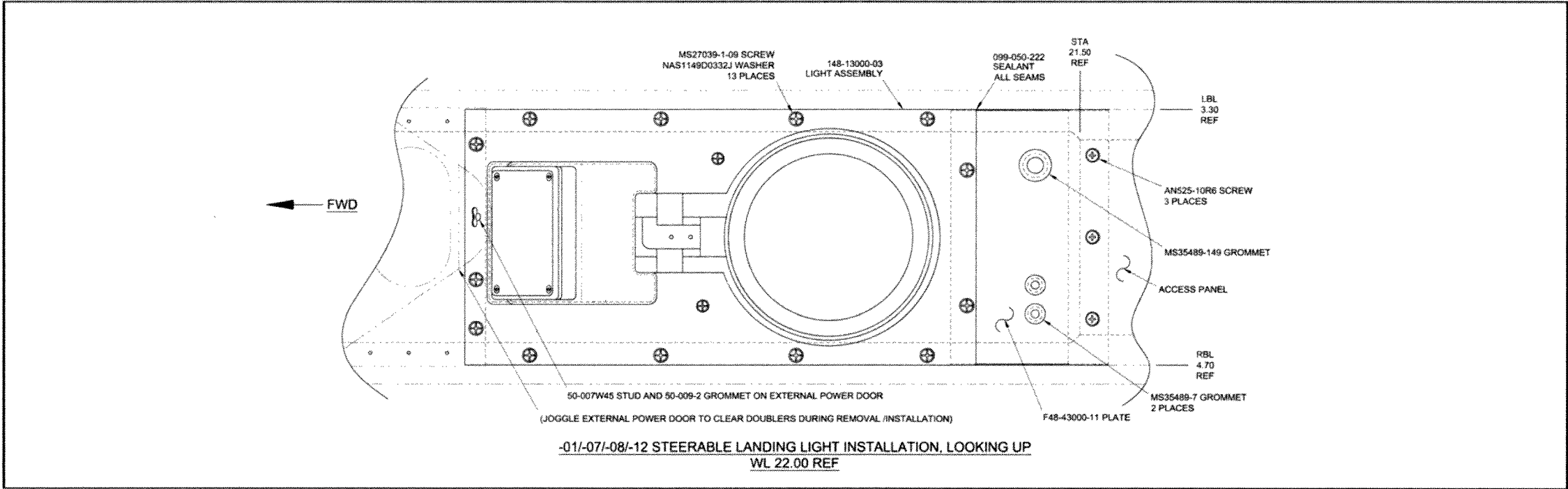


FIGURE 3. STEERABLE LANDING LIGHT INSTALLATION

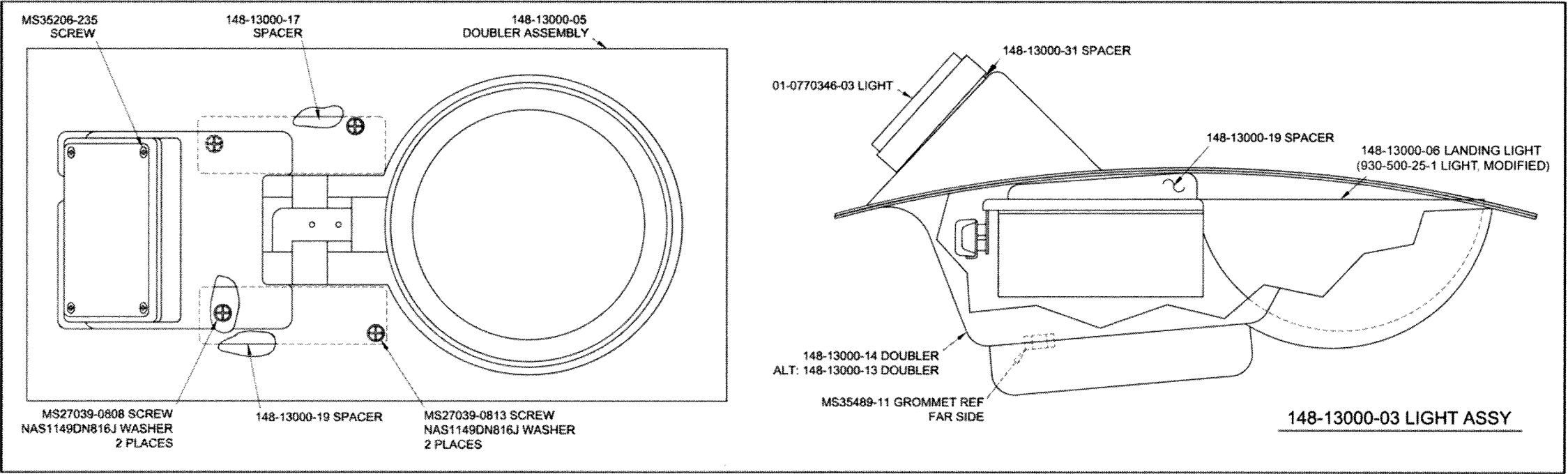


FIGURE 4. 148-13000-03 LIGHT ASSEMBLY

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

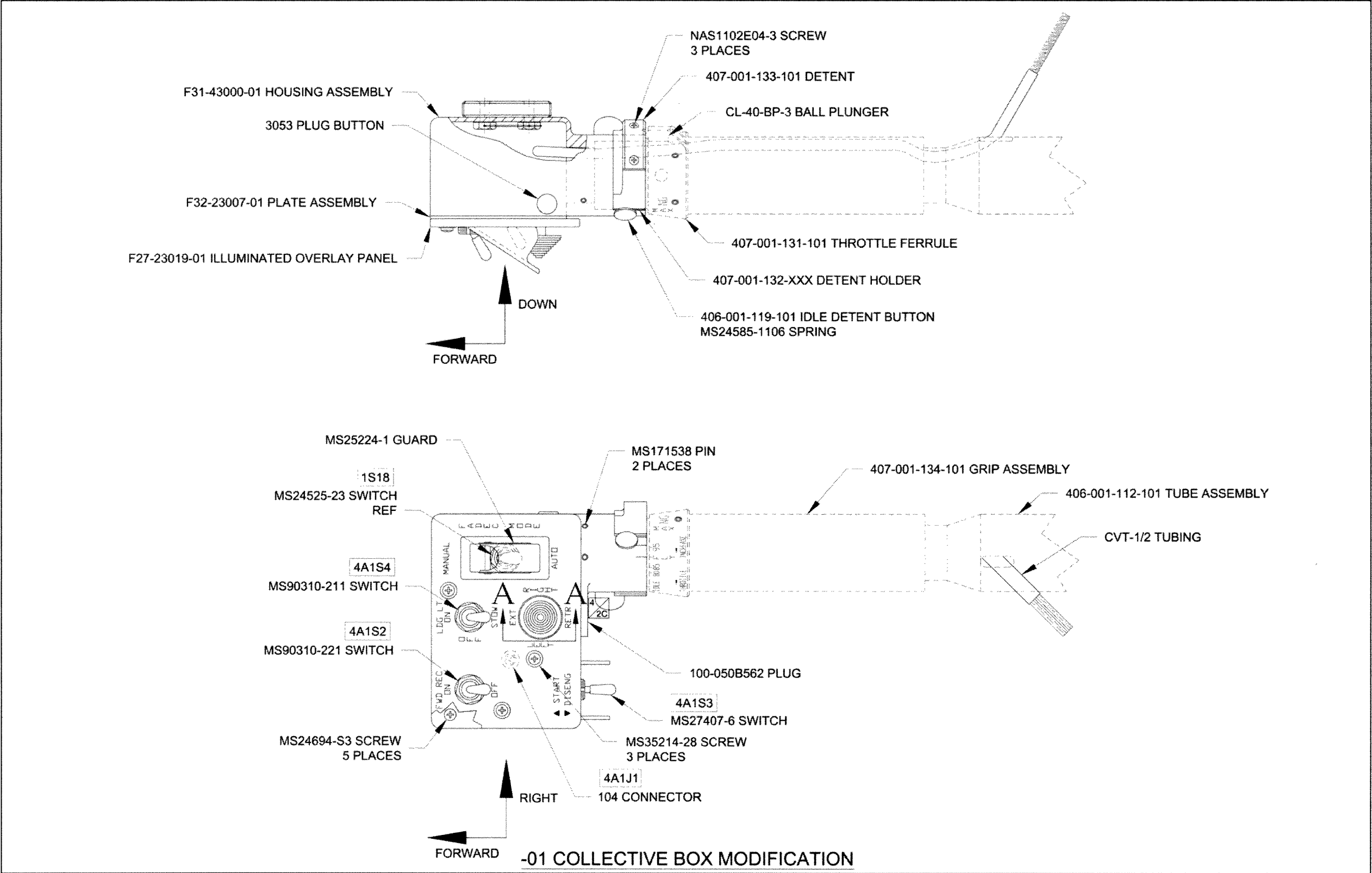


FIGURE 5. COLLECTIVE BOX MODIFICATION (P/N F37-15001-01 FADEC RELOCATION)

AERONAUTICAL ACCESSORIES, INC.

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

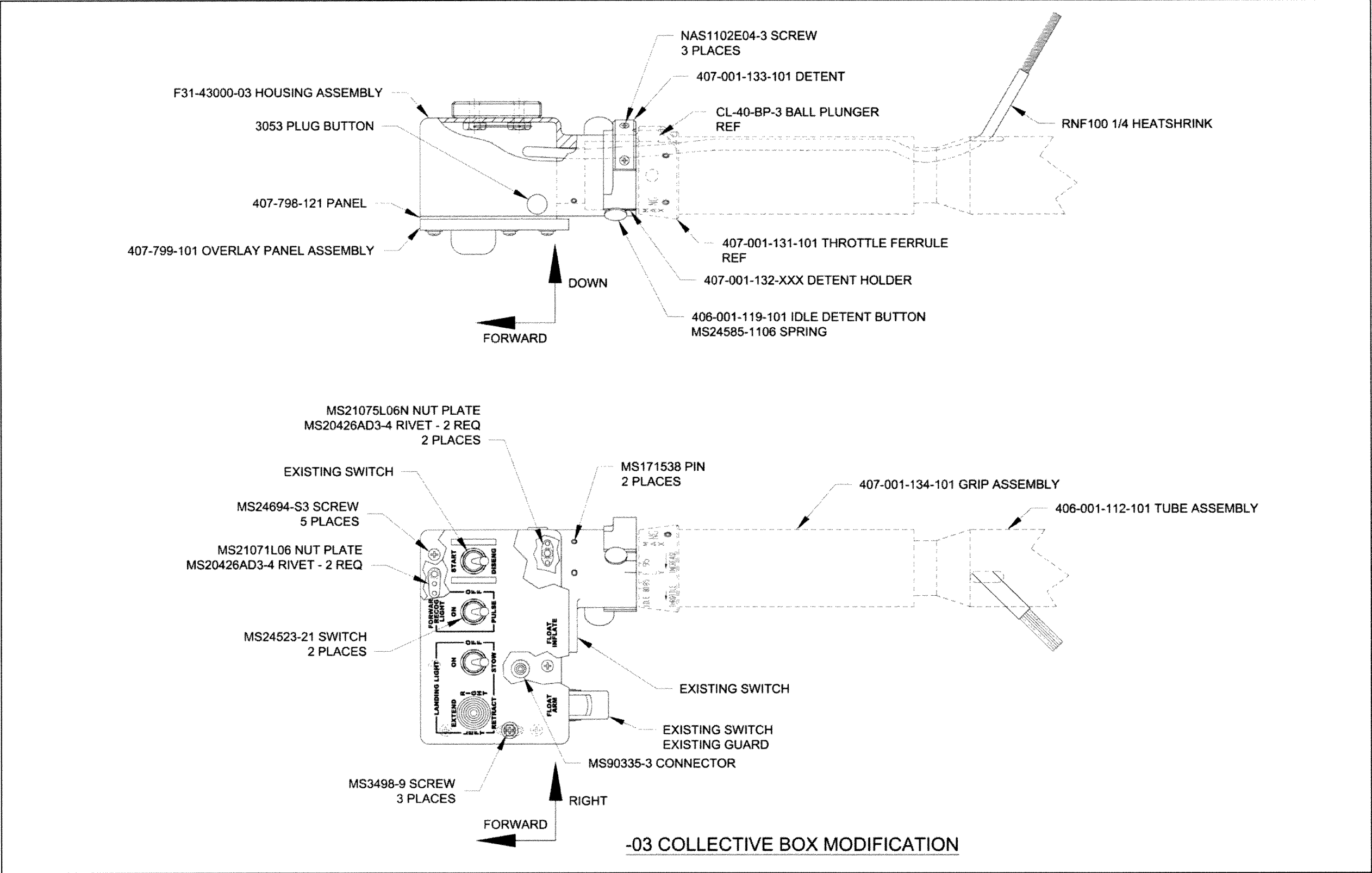


FIGURE 6. COLLECTIVE BOX MODIFICATION (P/N F37-15001-03 PULSELITE)

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

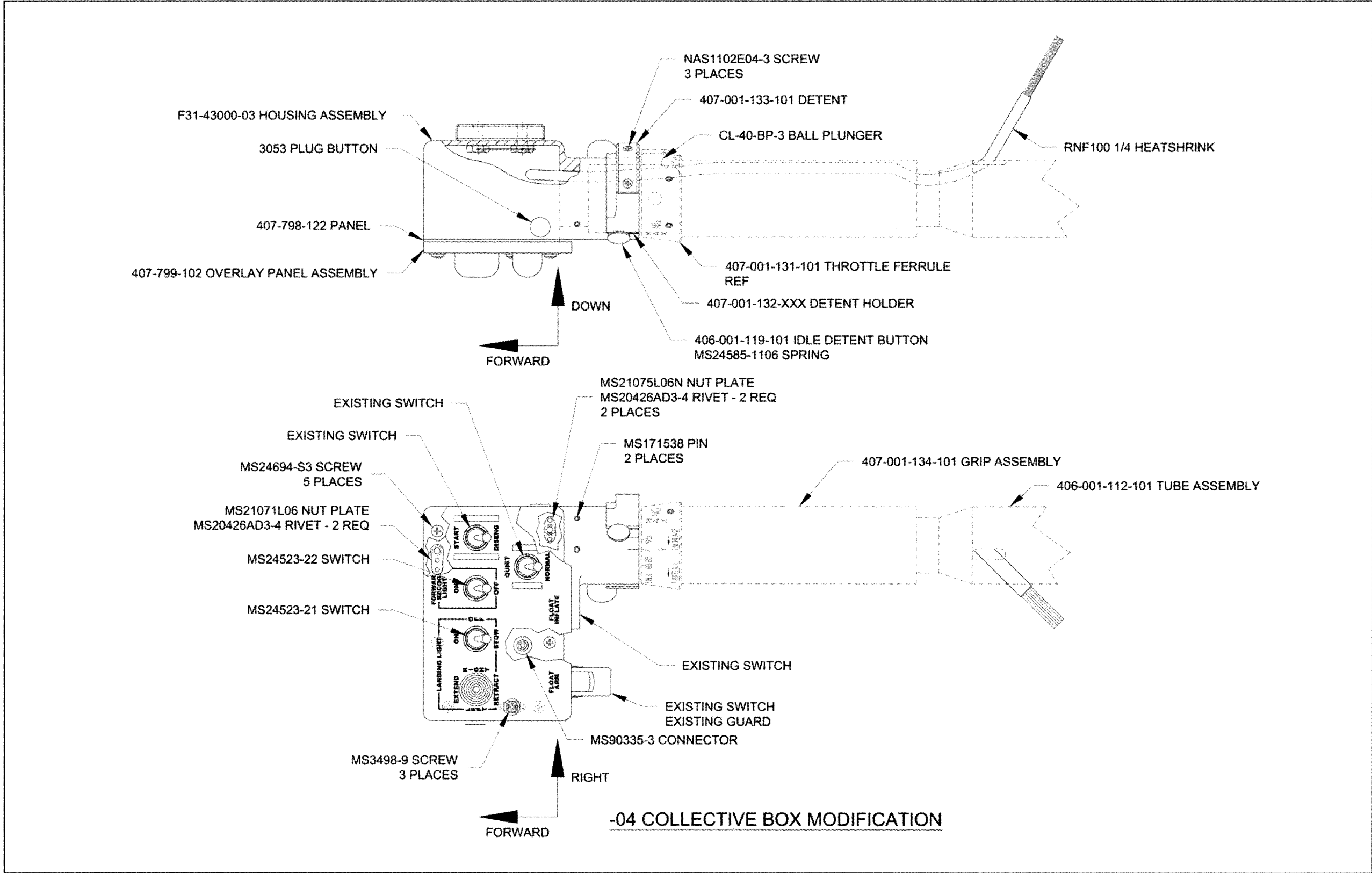


FIGURE 7. COLLECTIVE BOX MODIFICATION (P/N F37-15001-04 QUIET CRUISE)

AERONAUTICAL ACCESSORIES, INC.

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

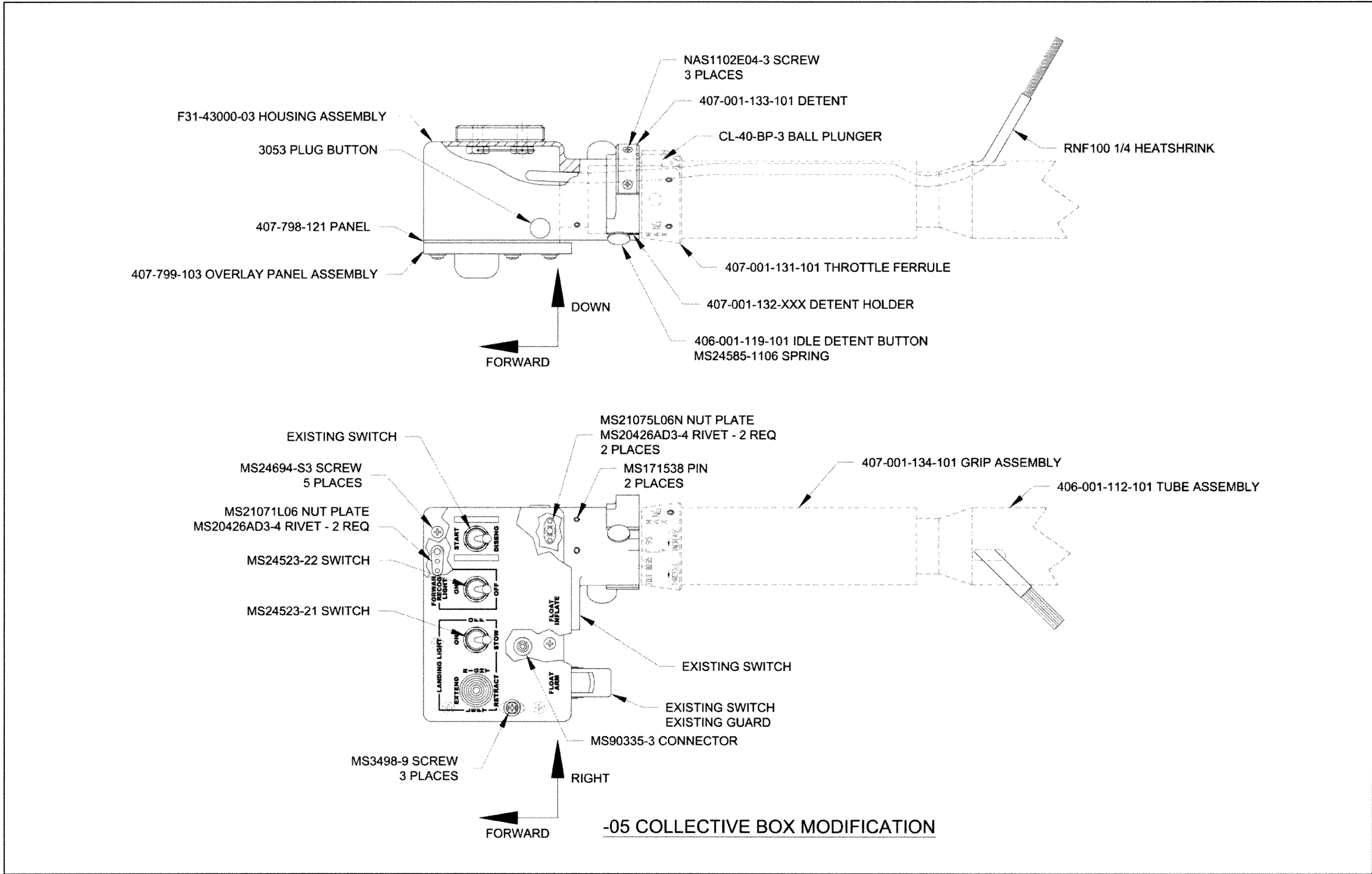
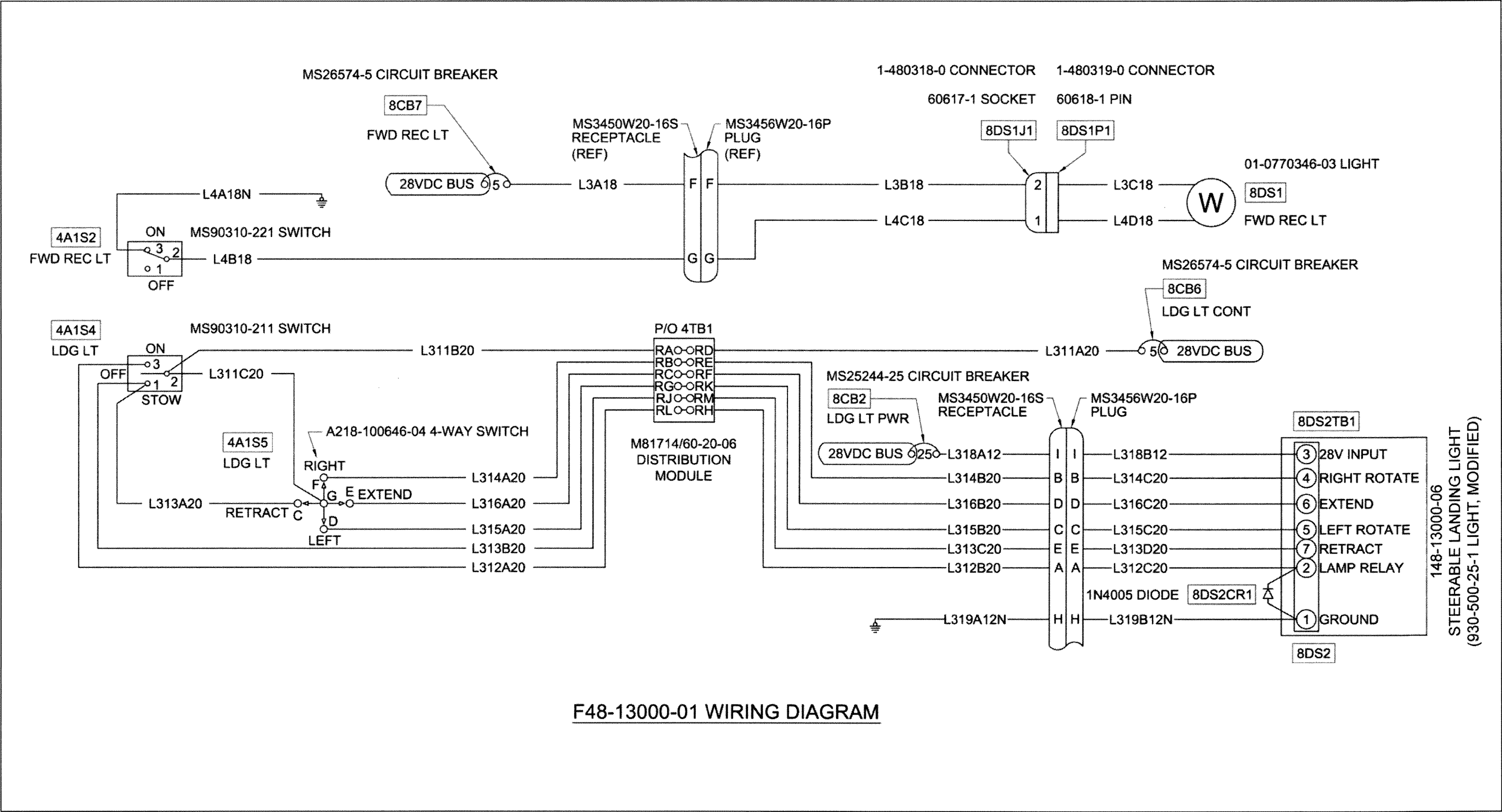


FIGURE 8. COLLECTIVE BOX MODIFICATION (P/N F37-15001-05 STANDARD)

AERONAUTICAL ACCESSORIES, INC.

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT



INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

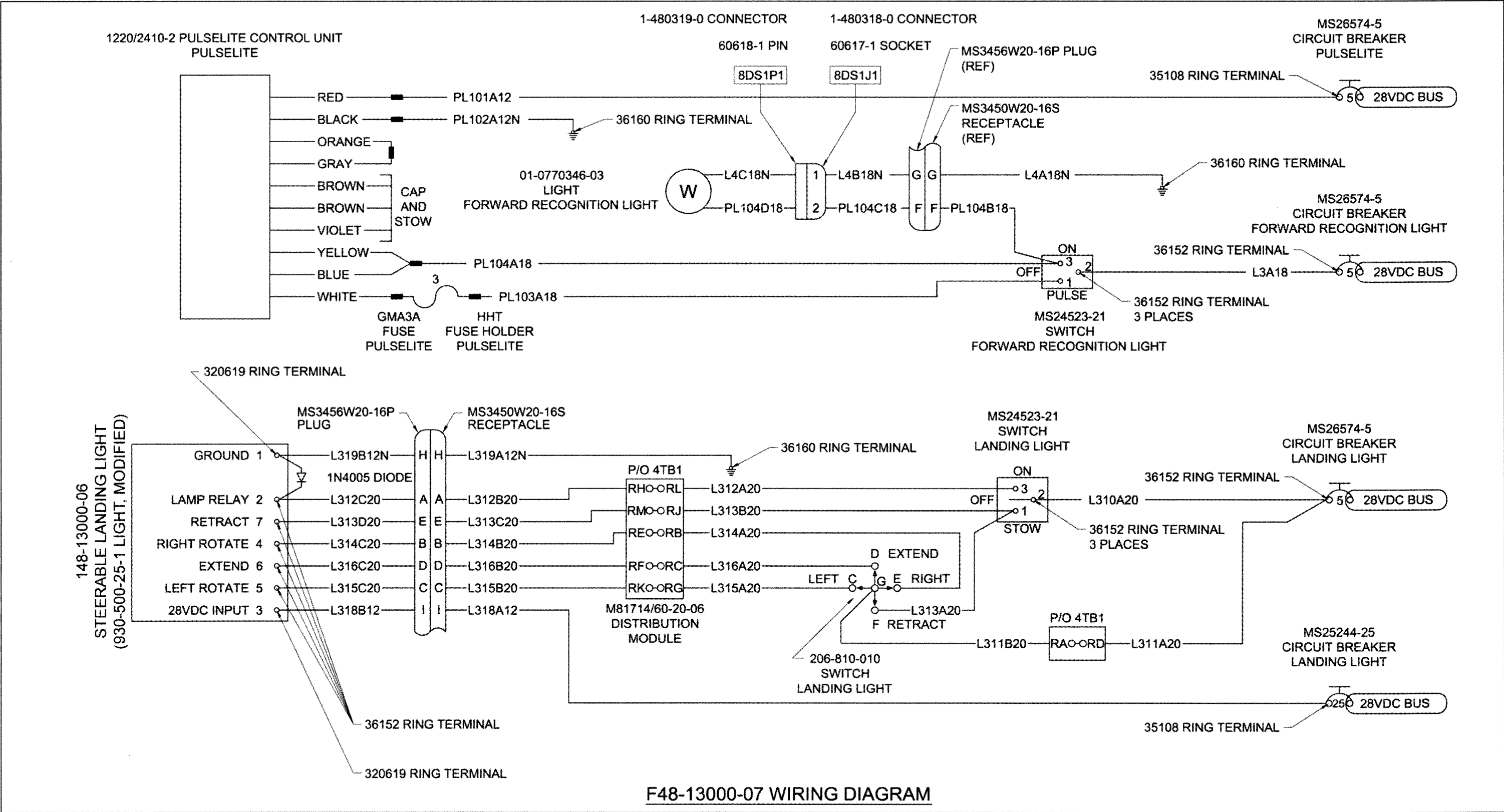


FIGURE 10. REFERENCE WIRING DIAGRAM (F48-13000-07)

INSTRUCTIONS for CONTINUED AIRWORTHINESS
STEERABLE LANDING LIGHT

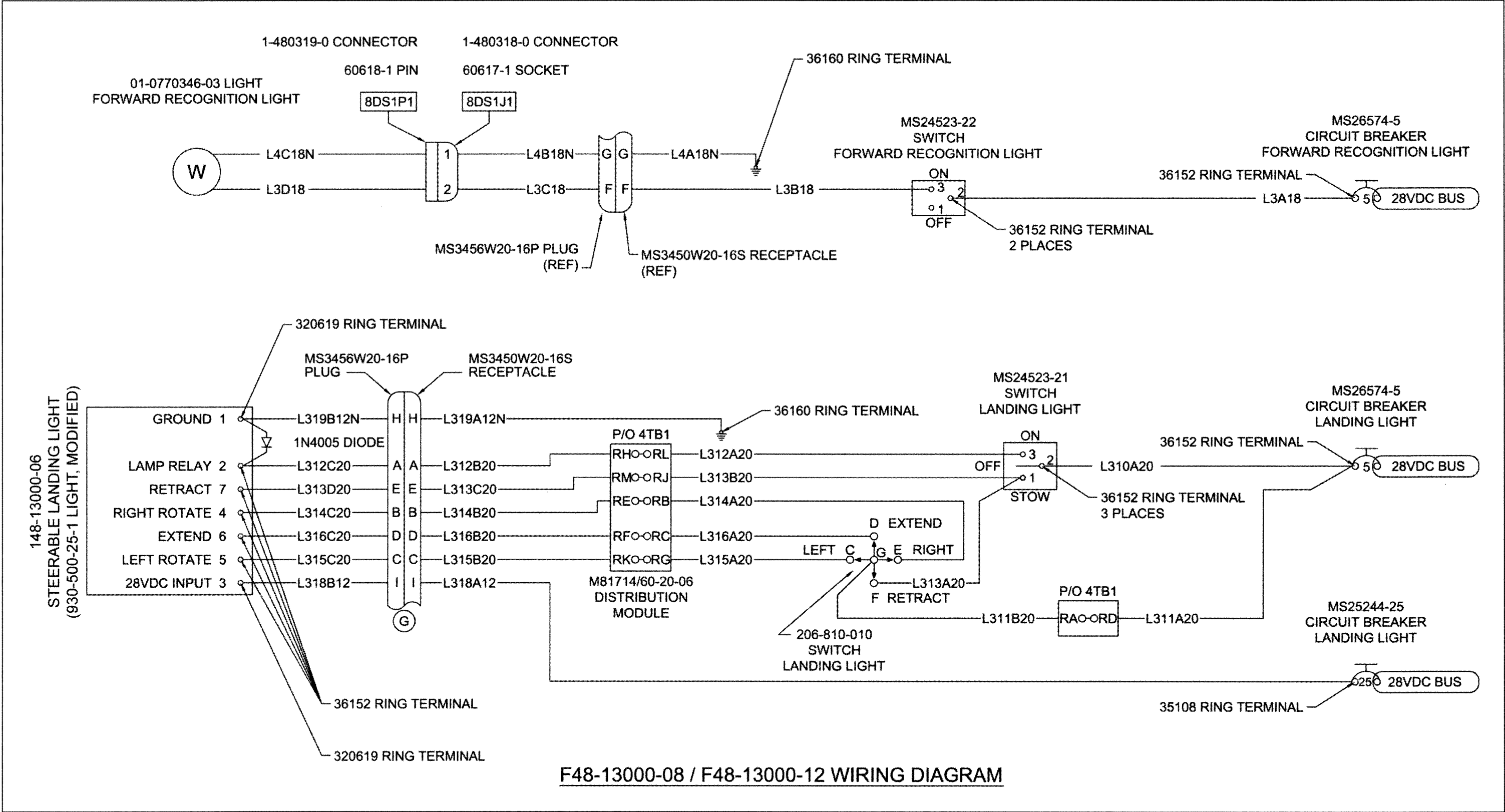


FIGURE 11. REFERENCE WIRING DIAGRAM (F48-13000-08 / F48-13000-12)

AERONAUTICAL ACCESSORIES, INC.

APPENDIX A

Annual Inspection Record

Work Order Number: _____

Registration Number: _____

Serial Number: _____

Total Time: _____

Date: _____

Inspect in accordance with Section 4.1, Annual Inspection.

1. Verify that both **LDG LT POWER** and **LDG LT CONTROL** circuit breakers, located in overhead circuit breaker panel, are closed. _____
2. Hold four-position thumb-switch, located in pilot's collective box, forward in the **EXT** (Alt: **EXTEND**) position. Verify that the Steerable Landing Light drives to a 90° position (approximate) at full travel. _____
3. At this time check Steerable Landing Light unit for security of attachment and for general overall condition. _____
4. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch, located in pilot's collective box to **ON**. Verify that Steerable Landing Light illuminates _____
5. Hold four-position thumb-switch aft in the **RETR** (Alt: **RETRACT**) position. Verify that Steerable Landing Light retracts completely. _____
6. Hold four-position thumb-switch forward in the **EXT** (Alt: **EXTEND**) position until Steerable Landing Light is partially extended. _____
 - a. Hold four-position thumb-switch in the **LEFT** position. Verify that light rotates full travel to the left. _____
 - b. Hold four-position thumb-switch in the **RIGHT** position. Verify that light rotates full travel to the right. _____
7. Using the four-position thumb-switch, center the light pointing forward. _____

Annual Inspection Record

8. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch to **OFF**.
Verify that light goes off. _____
9. Set **LDG LT** (Alt: **LANDING LIGHT**) **ON / OFF / STOW** switch to
STOW. Verify that light retracts to stowed position. _____
10. Verify that both **LDG LT POWER** and **LDG LT CONTROL** circuit
breakers are closed. _____
11. Verify that the **FWD REC** (Alt: **FWD RECOG LIGHT**) circuit breaker,
located in overhead circuit breaker panel, is closed. _____
12. Set **FWD REC** (Alt: **FWD RECOG LIGHT**) switch, located in the pilot's
collective box, to **ON**. Verify that fixed landing light illuminates. _____
13. Set **FWD REC** (Alt: **FWD RECOG LIGHT**) switch to **OFF**. Verify **FWD**
REC (Alt: **FWD RECOG LIGHT**) circuit breaker closed. _____

Signature _____ A & P No. _____

Signature _____ Inspector _____