

# EAGLE TECHNICAL BULLETIN

REF. TCCA STC: SH14-47  
REF. FAA STC: SR03496NY

Eagle Technical Bulletin Number: **TB-E407-789-13**

Purpose: To provide instructions for installation of Night Vision Imaging System (NVIS) compatible instrument panel indicators and switches, and to relocate components due to existing equipment.

Eligible Serial Numbers: **53819, 54048, 54066, 54084, 53309, 54072, 53919**

Compliance: Optional, to be installed and evaluated in conjunction with STC SR00661DE, STC SR00599DE-D, STC SR01383SE and STC SR09350RC as applicable.

Description This technical bulletin (TB) describes the installation of the instruments and switches required to make the 407HP modification compatible with NVIS installations and re-locate components that could not be mounted due to other equipment.


**NOTE:** This TB only approves the installation of NVIS compatible annunciators in place of the standard Eagle 407HP annunciators. The replacement parts need to be evaluated as part of the NVIS STC by the NVIS STC holder.

Weight and Balance:

The incorporation of this TB has a negligible effect on the aircraft weight and balance.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY:   
K. BARTON (DE #05)

DATE: 2022-04-12  
CERT. NO.: SH14-47  
ISSUE NO.: 1

G	ADDED SR09350RC ADDED S/N 53919 ADDED -015 CONFIGURATION ADDED PARTS 28-29	MP	2022-04-12
F	ADDED S/N 54072, ADJUSTED PARTS LIST, ADDED ADDITIONAL KIT NUMBERS TO THE FIGURES. ADDED OPTIONAL CB LOCATIONS ON FIGURE 7.	WK	2021-05-12
E	ADDED S/N 53309, STC SR01383SE AND -13 INSTL.	WK	2020-05-25
D	ADDED S/N 54084	WK	2019-11-12
C	ADDED AIRCRAFT S/N 54066 REVISED TABLE 1, FIGURE 6, AND FIGURE 7 REMOVED FIGURE 8 AND RENUMBERED FIGURES 9-13	KB	2019-09-10
B	REVISED TO INCLUDE AIRCRAFT S/N 54048. UPDATE FIG. 1 FOR CLARITY. UPDATE PROCEDURE TERMINOLOGY FOR CLARITY. CORRECT WIRE COLOURS IN FIG.4. UPDATE FIG.9 IMAGE AND LOCATION DATA FOR CLARITY. ADD FIGURES 8,10, 12 AND 13. ADD TABLE 2. ADD 0789-03-201-1 PLACARD.	KB	2018-08-07
A	NEW ISSUE	LA	2018-05-28
REV	DESCRIPTION	BY	DATE
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DE APPR.	KB	NVIS COMPATIBLE PART INSTL	
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Parts List:

**Table 1 - NVIS PART NUMBERS**

ITEM	-011 QTY	-013 QTY	-015 QTY	PART NUMBER	DESCRIPTION
	X			TB-E407-789-13-011	NVIS COMPATIBLE PART KIT
		X		TB-E407-789-13-013	NVIS COMPATIBLE PART KIT
			X	TB-E407-789-13-015	NVIS COMPATIBLE PART KIT
1	1			LED-42-11-KB-E2A50 (CAP ONLY P/N: LED-XX-11-KB-E2A50) (ALT. CAP P/N: LED-40-17-KB-E2A85)	FADEC RESET SWITCH - PUSH BUTTON LED
2		1	1	LED-42-11-SK-E2GCU (CAP ONLY P/N: LED-XX-11-SK-E2GCU) (ALT. CAP P/N: LED-40-17-KG-E2A81)	FADEC RESET SWITCH - PUSH BUTTON LED
3	1	1		LED-41-11-SE-E2A52 (CAP ONLY P/N: LED-XX-11-SE-E2A52) (ALT. CAP P/N: LED-40-17-SE-E2A86)	FIRE DETECT TEST SWITCH - PUSH BUTTON LED
4	1	1		LED-41-11-SE-E2A53 (CAP ONLY P/N: LED-XX-11-SE-E2A53) (ALT. CAP P/N: LED-40-17-SE-E2A87)	CHIP DETECT TEST SWITCH - PUSH BUTTON LED
5	1	1	1	0789-03-307-3	DUAL TACHOMETER INDICATOR
6	1	1	1	0789-03-308-3	GAS GENERATOR TACH INDICATOR
7	1	1	1	0789-03-309-3	MEASURED GAS TEMP INDICATOR
8	1	1	1	0789-03-310-3	TORQUE INDICATOR
9	1	1	1	0789-03-311-3	ENG OIL PRESS AND TEMP INDICATOR
10	1	1	1	0789-03-312-3	FUEL QUANTITY INDICATOR
11	1	1	1	0789-03-313-3	FUEL PRESSURE AND AMMETER INDICATOR
12	1	1	1	0789-03-314-3	TRANSMISSION OIL PRESS AND TEMP INDICATOR
13	1	1	1	0789-03-170-113	ENG FUEL FILTER
14	1	1	1	0789-03-170-133	A/F FUEL FILTER
15	1	1	1	0789-03-170-153	FADEC CH FAIL
16	1	1	1	0789-03-170-213	FADEC MAINT
17	1	1	1	0789-03-170-233	START FAULT
18		1	1	0789-03-170-313	ENG OIL PRESS
19	1			0789-03-170-333	ENG OIL PRESS
20	1	1	1	0789-02-096-3	INTEGRALLY LIT PANEL
21	1	1	1	0789-03-182-3	PLACARD, OPERATING LIMITATIONS, PERFORMANCE DATA
22	1	1	1	0789-03-183-3	PLACARD, FUEL CAPACITY
23	1	1	1	0789-03-184-3	PLACARD, OPERATING LIMITATIONS
24	1	1	1	0789-03-191-3	PLACARD, FUEL VALVE
25	1	1	1	0789-03-201-1	PLACARD, CAP MODIFICATION
26	1			8916K951	SWITCH GUARD
28			1	9181-28-01	INTEGRALLY LIT COLLECTIVE PANEL
29			1	6712-28-02	CIRCUIT BREAKER OVERLAY

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**Table 2 PARTS NO LONGER REQUIRED FROM E407-789-011 KIT**

ITEM	-011 QTY	-013 QTY	-015 QTY	PART NUMBER	DESCRIPTION
1	1	1	1	LED-42-11-BK-E138W	FADEC RESET SWITCH - PUSH BUTTON LED
2	1	1	1	P1-82122	FIRE DETECT TEST SWITCH - PUSH BUTTON
3	1	1	1	P1-80010	CHIP DETECT TEST SWITCH - PUSH BUTTON
4	1	1	1	0789-03-307-1	DUAL TACHOMETER INDICATOR
5	1	1	1	0789-03-308-1	GAS GENERATOR TACH INDICATOR
6	1	1	1	0789-03-309-1	MEASURED GAS TEMP INDICATOR
7	1	1	1	0789-03-310-1	TORQUE INDICATOR
8	1	1	1	0789-03-311-1	ENG OIL PRESS AND TEMP INDICATOR
9	1	1	1	0789-03-312-1	FUEL QUANTITY INDICATOR
10	1	1	1	0789-03-313-1	FUEL PRESSURE AND AMMETER INDICATOR
11	1	1	1	0789-03-314-1	TRANSMISSION OIL PRESS AND TEMP INDICATOR
12	1	1	1	0789-03-170-11	ENG FUEL FILTER
13	1	1	1	0789-03-170-13	A/F FUEL FILTER
14	1	1	1	0789-03-170-15	FADEC CH FAIL
15	1	1	1	0789-03-170-21	FADEC MAINT
16	1	1	1	0789-03-170-23	START FAULT
17	1	1	1	0789-03-170-31	ENG OIL PRESS
18	1	1	1	0789-02-096-1	INTEGRALLY LIT PANEL
19	1	1	1	0789-03-182-1	PLACARD, OPERATING LIMITATIONS, PERFORMANCE DATA
20	1	1	1	0789-03-183-1	PLACARD, FUEL CAPACITY
21	1	1	1	0789-03-184-1	PLACARD, OPERATING LIMITATIONS
22	1	1	1	0789-03-186-1	PLACARD, HORN MUTE
23	1	1	1	0789-03-187-1	PLACARD, FIRE DET. TEST
24	1	1	1	0789-03-188-1	PLACARD, LCD TEST
25	1	1	1	0789-03-189-1	PLACARD, FUEL QTY. FWD.
26	1	1	1	0789-03-190-1	PLACARD, CHIP DET. TEST
27	1	1	1	0789-03-191-1	PLACARD, FUEL VALVE

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Procedure:

-011 Installation in conjunction with Air Methods STC SR00661DE and/or STC SR00599DE-D

Serial Numbers: 53819, 54048, 54066, 54084, 54072

1. Remove the following switches: FADEC MODE AUTO/MAN, OVERSPEED TEST, FADEC FAIL HORN TEST switch, and INSTRUMENT CHECK switch per Figure 1.
2. Install the NVIS compatible FADEC RESET switch, FIRE DETECT TEST switch, and CHIP DETECT TEST switch IAW Section 7.1 of IIN-E407-789 and IAW Figure 3, Figure 4, and Figure 6 of this Bulletin. Figure 2 and Figure 5 are provided for reference only.
3. Install qty 8 of the -3 (NVIS green A) NVIS compatible gauges (see Table 1) in place of the -1 (regular) gauges IAW Section 7.1 of IIN-E407-789 and drawing 0789-01-155.
4. Install qty 6 of the -3 (NVIS green A) NVIS compatible Caution/Warning Panel segments (see Table 1) in BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001) in place of the -1 (regular) segments IAW Section 7.1 of IIN-E407-789 and Drawing 0789-03-170.
5. Install placard P/N: 0789-03-201-1 on BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001) as shown on Figure 16.
6. Install the -3 (NVIS green A) NVIS compatible Collective Panel (see Table 1) in place of the -1 (regular) Collective Panel IAW Drawing 0789-02-096.
7. Install terminal blocks 8TB1-S into open slot 8TB1-N, and 8TB1-T into 8TB1-P per Figure 15.
8. Install Circuit Breakers in CB Panel IAW Figure 7.
9. Install Circuit Breaker Overlay IAW Figure 7.
10. Install DC to DC converter in new location under pilot seat IAW Figure 10, or Figure 11 as applicable per aircraft serial number.
11. Install starter relay in hat rack section, on bracket above existing equipment IAW Figure 13.
12. Locate the 0789-03-182-3/-183-3/-184-3/-191-3 placards as close to the original location as possible, ensuring that any switch specific placard is located near the associated switch. The 0789-03-186-1/-187-1/-188-1/-189-1/-190-1 placards are not required with this modification.
13. Make an entry into the aircraft technical reports to indicate TB-E407-789-13 has been completed.
14. Notify Eagle Copters that this Technical Bulletin has been accomplished by filling out the attached form (Last Sheet of this document) and emailing it to Eagle Copters.

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-013 Installation in conjunction with Aviation Specialties Unlimited (ASU) STC SR01383SE  
Serial Numbers: 53309

1. Remove all items listed in Table 2 from kit E407-789-011 and replace with items from Table 1.
2. Install the NVIS compatible FADEC RESET switch, P/N LED-42-11-SK-E2GCU, IAW Section 7.1 of IIN-E407-789 and drawing 0789-01-155.
3. Install qty 8 of the -3 (NVIS green A) NVIS compatible gauges (see Table 1) in place of the -1 (regular) gauges IAW Section 7.1 of IIN-E407-789 and drawing 0789-01-155. Connect gauge lighting IAW Figure 17.
4. Install qty 6 of the -3 (NVIS green A) NVIS compatible Caution/Warning Panel segments (see Table 1) in BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001) in place of the -1 (regular) segments IAW Section 7.1 of IIN-E407-789 and drawing 0789-03-170.
5. Install placard P/N: 0789-03-201-1 on BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001) as shown on Figure 166.
6. Install the -3 (NVIS green A) NVIS compatible Collective Panel (see Table 1) in place of the -1 (regular) Collective Panel IAW Drawing 0789-02-096.
7. Install Circuit Breakers in CB Panel IAW Figure 8.
8. Install Circuit Breaker Overlay IAW Figure 8.
9. Install DC to DC converter in new location under pilot seat IAW Figure 12.
10. Locate the 0789-03-182-3/-183-3/-184-3/-191-3 placards as close to the original location as possible, ensuring that any switch specific placard is located near the associated switch. The 0789-03-186-1/-187-1/-188-1/-189-1/-190-1 placards are not required with this modification.
11. Make an entry into the aircraft technical reports to indicate TB-E407-789-13 has been completed.
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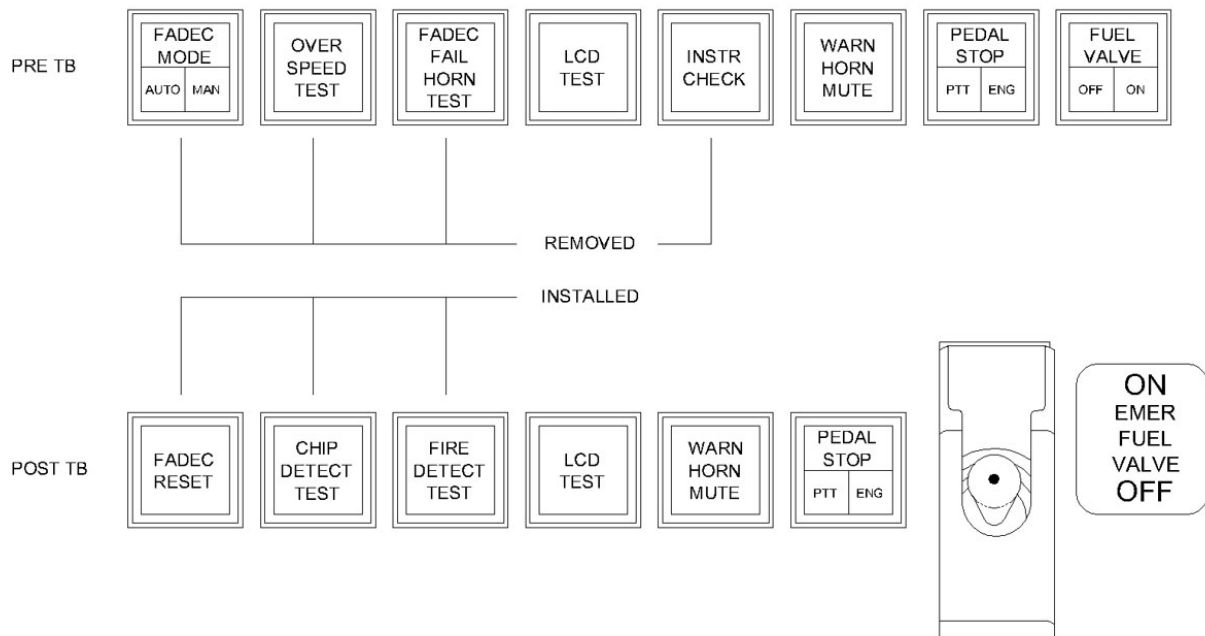
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-015 Installation in conjunction with Aero Dynamix SR09350RC

Serial Numbers: 53919

1. Remove all items listed in Table 2 from kit E407-789-011 and replace with items from Table 1.
2. Install the NVIS compatible FADEC RESET switch, P/N LED-42-11-SK-E2GCU, IAW Section 7.1 of IIN-E407-789 and drawing 0789-01-155.
3. Install qty 8 of the -3 (NVIS green A) NVIS compatible gauges (see Table 1) in place of the -1 (regular) gauges IAW Section 7.1 of IIN-E407-789 and drawing 0789-01-155. For Indicators 0789-03-308-3, 0789-03-309-3, 0789-03-310-3, and 0789-03-312-3 the software revision must be at Revision X per AERO DYNAMIX STC SR09350RC and Note 27 on drawing 2441-01-93 Rev. A.
4. Install qty 6 of the -3 (NVIS green A) NVIS compatible Caution/Warning Panel segments (see) in BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001) in place of the -1 (regular) segments IAW Section 7.1 of IIN-E407-789 and drawing 0789-03-170.
5. Install placard P/N: 0789-03-201-1 on BHT P/N: 407-375-015-111 (or AMC P/N: 405-2031-001), as shown on Figure 16.
6. Install the Integrally Lit Collective Panel (NVIS green A) (Aerodynamix, P/N: 9181-28-01) (see Table 1) in place of the -1 (regular) Collective Panel IAW Drawing 0789-02-096. **This will be an Aerodynamix part number installed in accordance with drawing 0789-02-096.**
7. Install Circuit Breakers in CB Panel IAW Figure 9.
8. Install Circuit Breaker Overlay (P/N 6712-28-02) IAW Figure 9.
9. Install DC to DC converter in new location under pilot seat IAW Figure 11.
10. Install P/N 2445-05-93 NVIS Compatible Instrument Panel E.L.P as per SR09350RC.
11. Install starter relay and bracket as shown IAW Figure 14.
12. Make an entry into the aircraft technical reports to indicate TB-E407-789-13 has been completed.
13. Notify Eagle Copters that this Technical Bulletin has been accomplished by filling out the attached form (Last Sheet of this document) and emailing it to Eagle Copters.

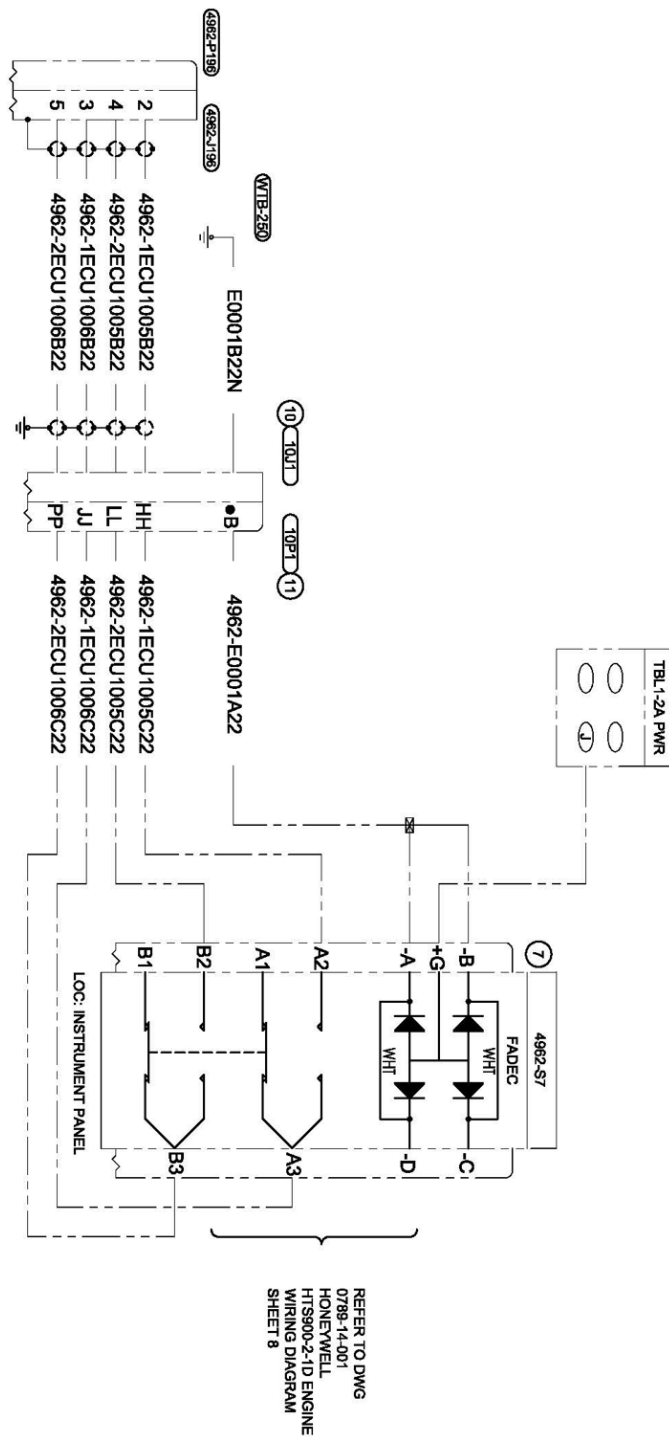
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**Figure 1 SWITCH LAYOUT (LOCATION: LOWER RIGHT INSTRUMENT PANEL)**  
(-011 INSTALLATION)

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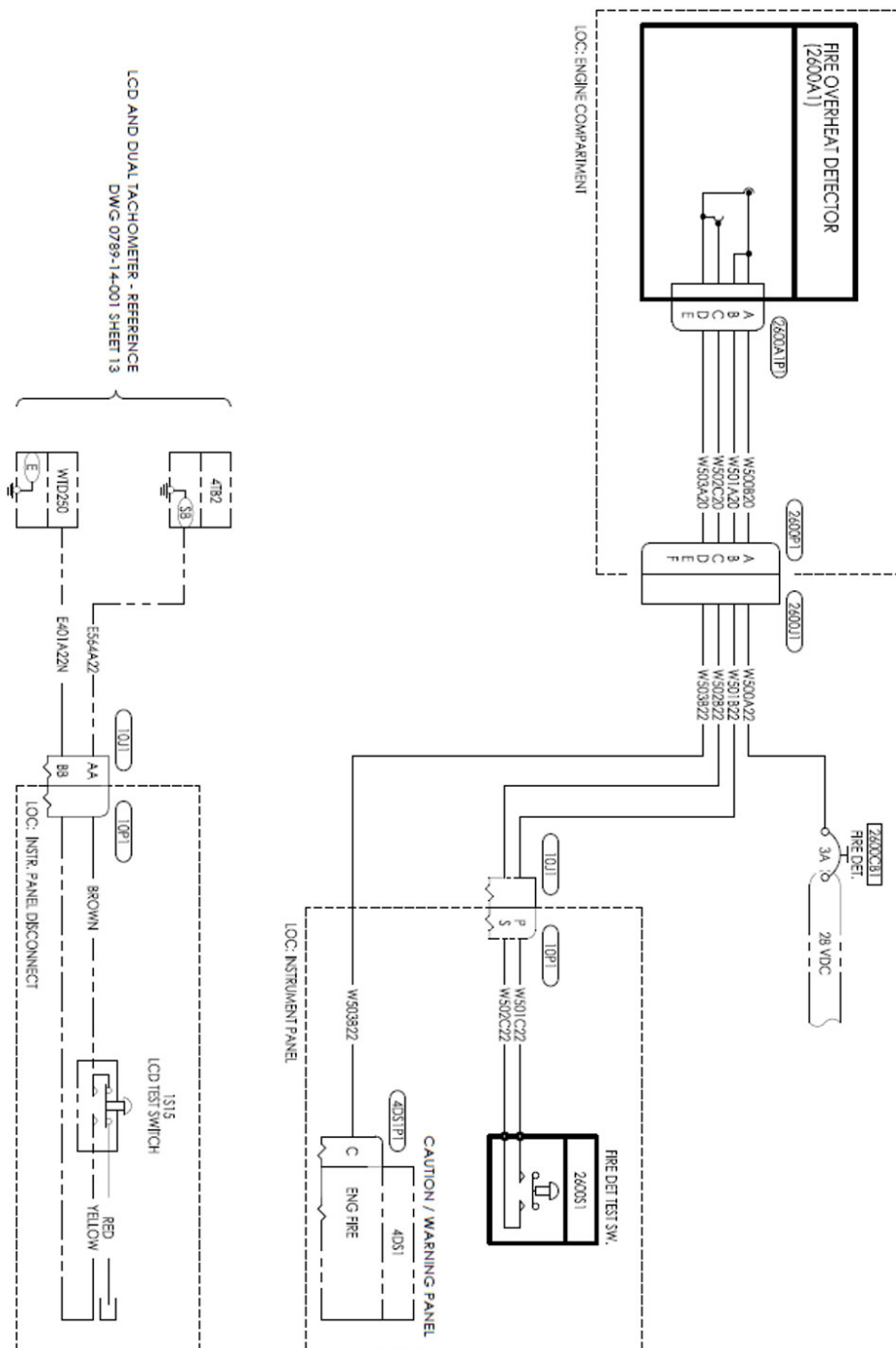




**Figure 3 POST TB - FADEC WIRING DIAGRAM**  
(-011 INSTALLATION)

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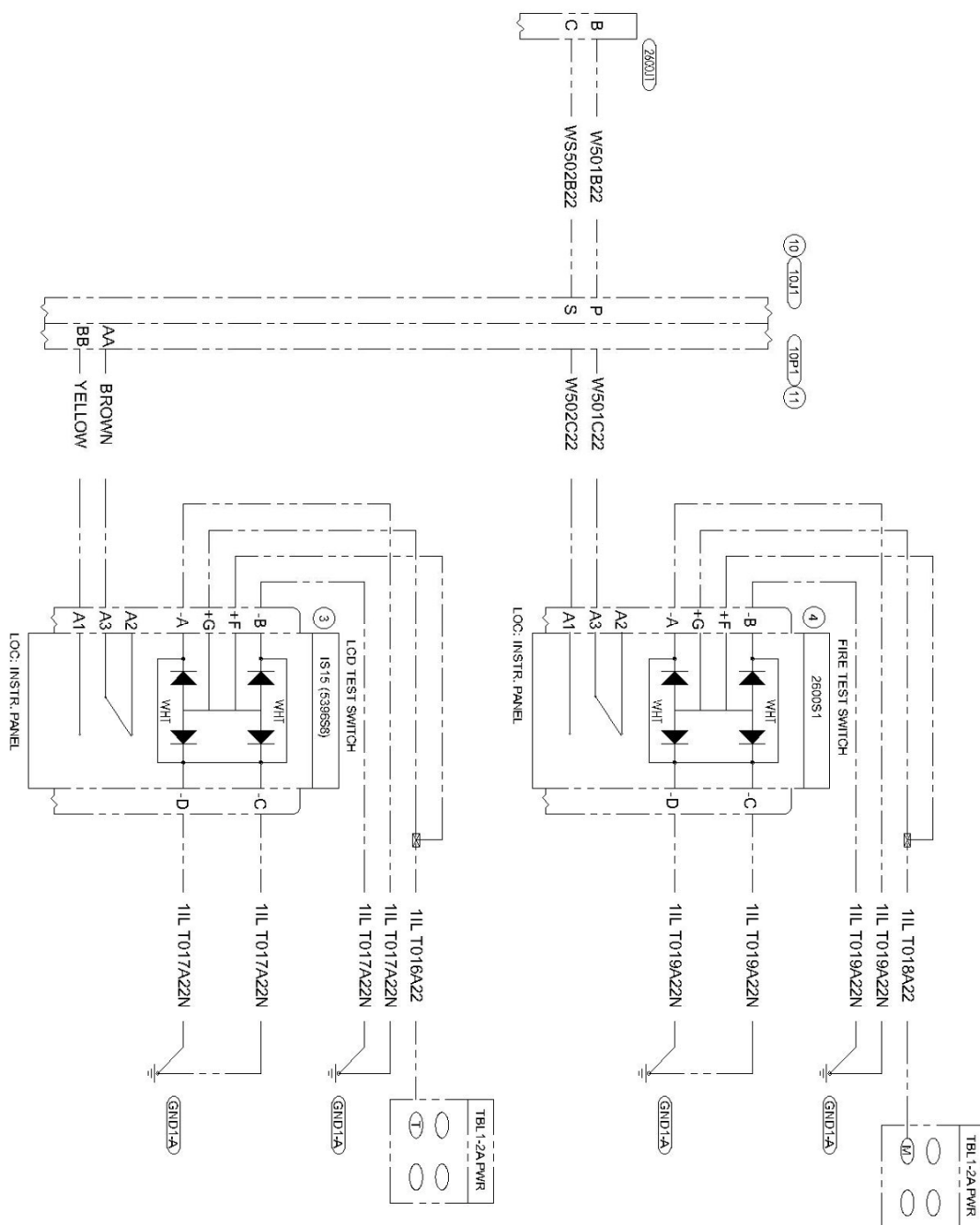




**Figure 5 PRE TB - FIRE DETECT AND LCD TEST SWITCH WIRING DIAGRAM**

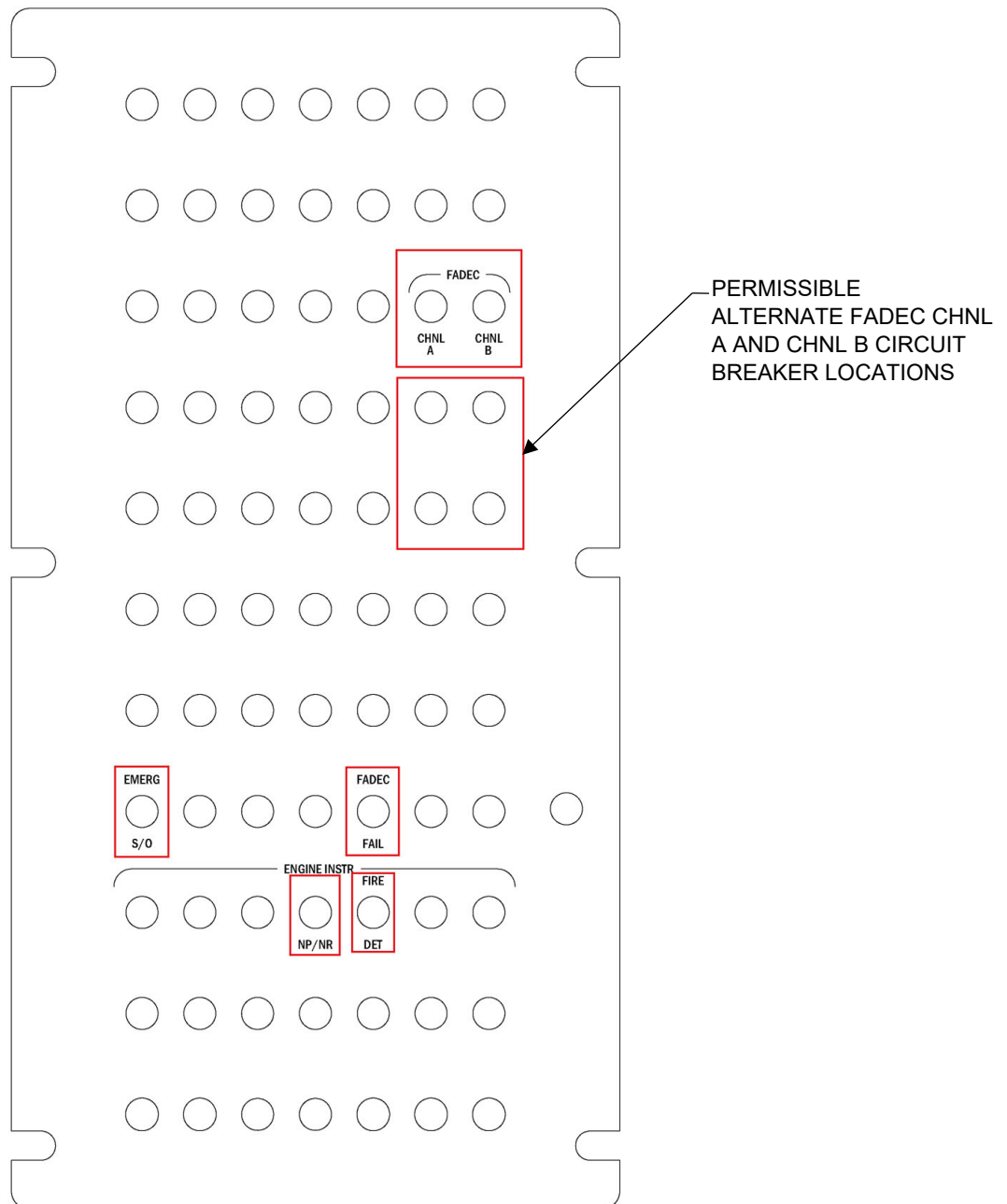
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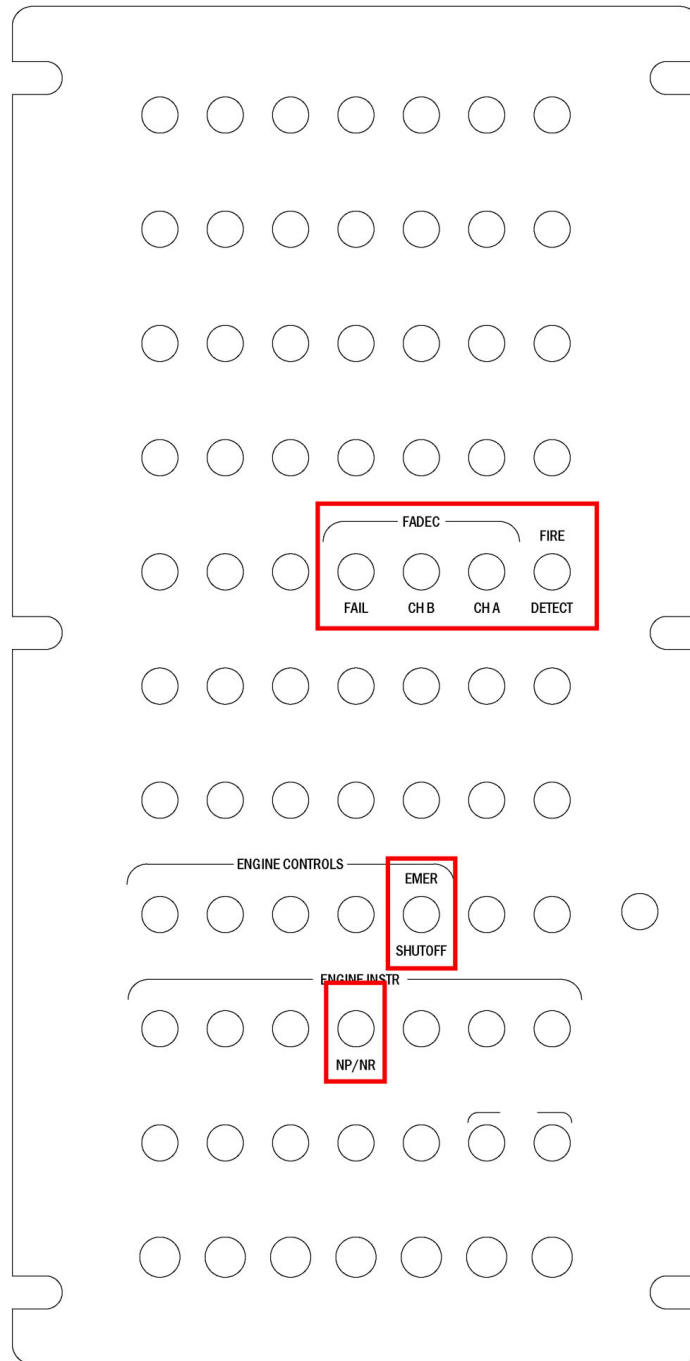
**Figure 6 POST TB - FIRE DETECT AND LCD TEST SWITCH WIRING DIAGRAM**  
(-011 INSTALLATION)

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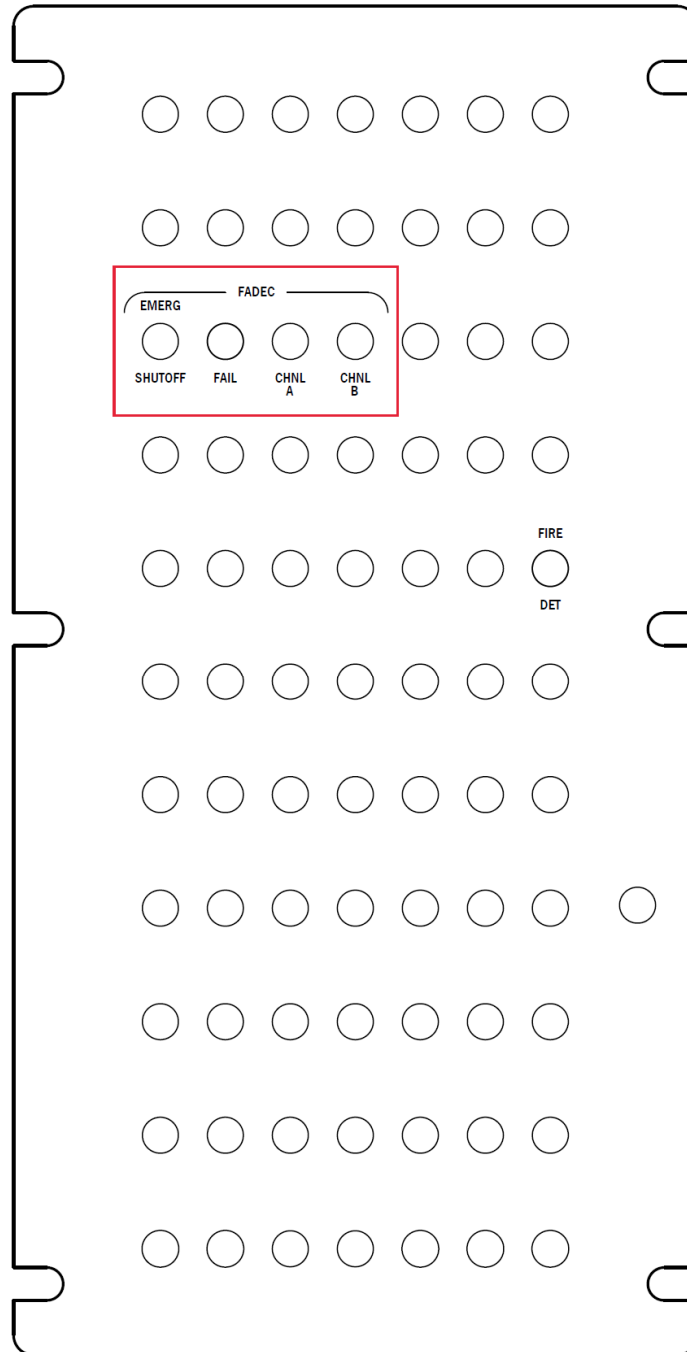
**Figure 7 POST TB - CIRCUIT BREAKER LAYOUT (RELOCATED CB'S HIGHLIGHTED IN RED)**  
(-011 INSTALLATION)

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**Figure 8 POST TB - CIRCUIT BREAKER LAYOUT (RELOCATED CB'S HIGHLIGHTED IN RED)**  
(-013 INSTALLATION)

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
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**Figure 9 POST TB - CIRCUIT BREAKER LAYOUT (RELOCATED CB'S HIGHLIGHTED IN RED)**  
(-015 INSTALLATION)

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DC-DC CONVERTER ETA-USA - SVA125C24

**Figure 10 - POST TB - DC - DC CONVERTER LOCATION UNDER PILOT SEAT STN 65.0 RBL 14.0  
S/N:53819, 54066 AND 54084**

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
DRAWN	MP		
CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 16 OF 22
APPROVED	MP	TITLE <b>NVIS COMPATIBLE PART INSTL</b>	
DE APPR.	KB		
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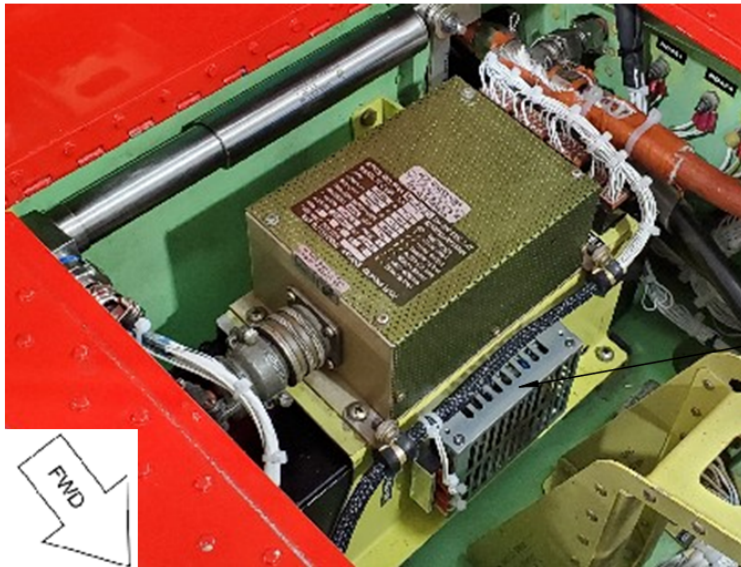


DC-DC CONVERTER ETA-USA - SVA125C24

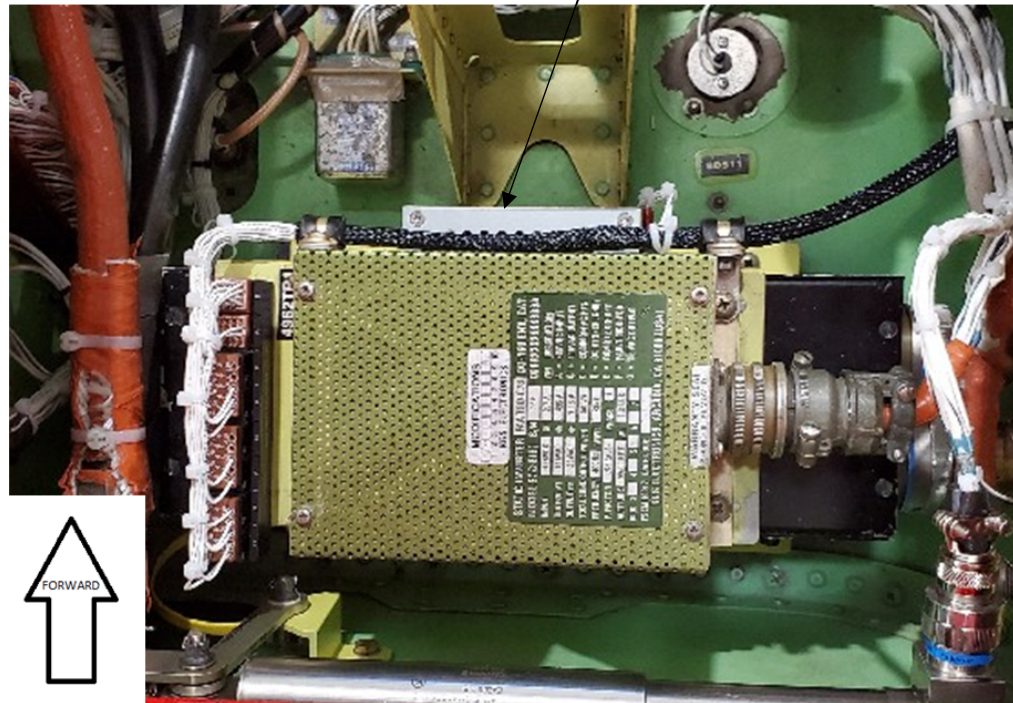
**Figure 11 - POST TB - DC - DC CONVERTER LOCATION UNDER PILOT SEAT STN 65.0 RBL 14.0**  
**S/N: 54048, 54072 AND 53919**

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
DRAWN	MP		
CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 17 OF 22
APPROVED	MP	TITLE <b>NVIS COMPATIBLE PART INSTL</b>	
DE APPR.	KB		
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DC-DC CONVERTER  
ETA-USA - SVA125C24



**Figure 12 - POST TB - DC - DC CONVERTER LOCATION UNDER PILOT SEAT VIEW LOOKING DOWN**  
**STN 65.0 RBL 14.0**  
**S/N: 53309**

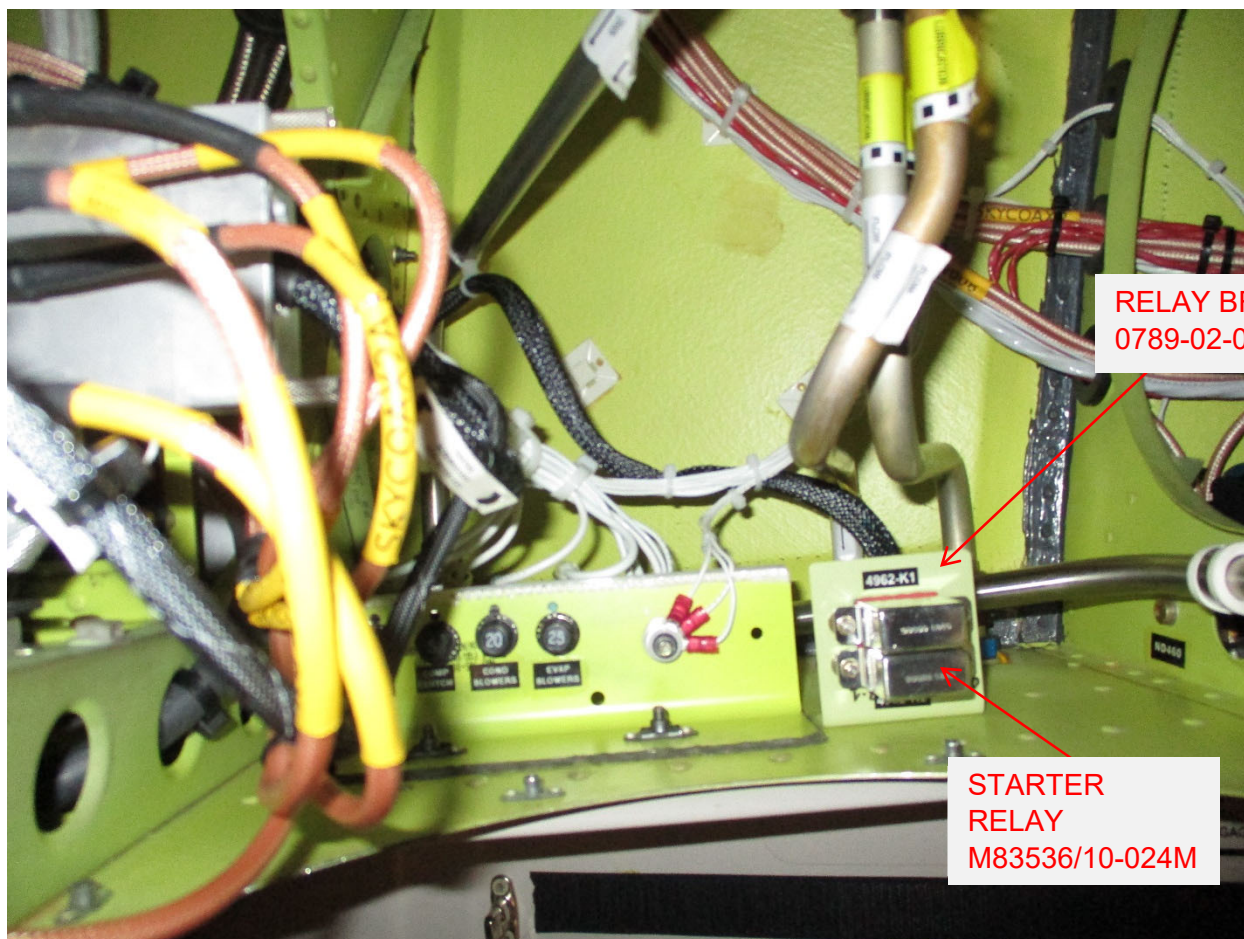
DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
DRAWN	MP		
CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	TB-E407-789-13	SHEET 18 OF 22
APPROVED	MP	TITLE NVIS COMPATIBLE PART INSTL	
DE APPR.	KB		
DATE	2022-04-12		
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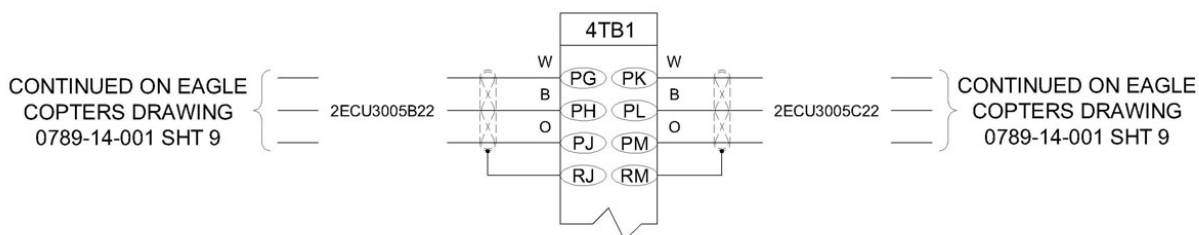


**Figure 13 - POST TB - STARTER RELAY AND BRACKET**  
 (-011 INSTALLATION)

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
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MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 19 OF 22
APPROVED	MP	TITLE <b>NVIS COMPATIBLE PART INSTL</b>	
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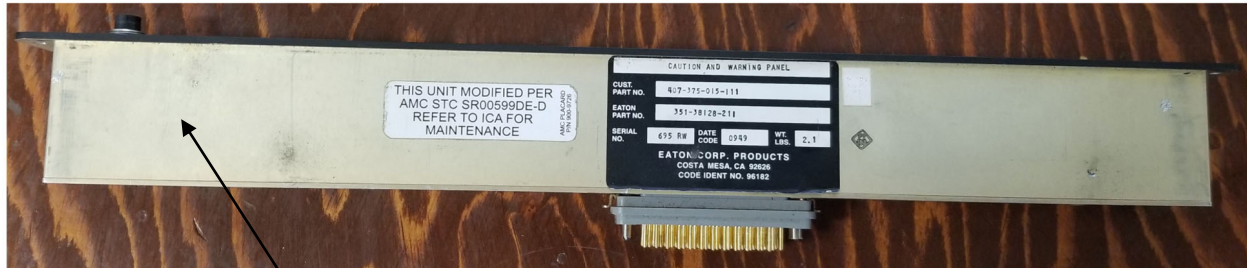


**Figure 14 POST TB - STARTER RELAY AND BRACKET**  
(-015 INSTALLATION)



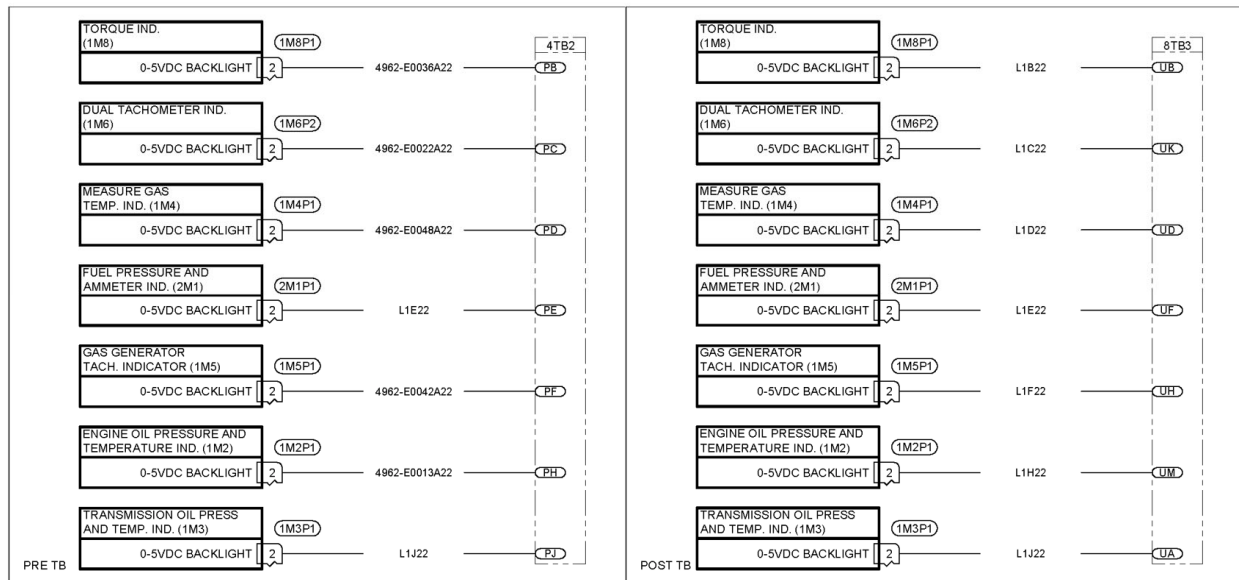
**Figure 15 - POST TB - STARTER SWITCH WIRING DIAGRAM**  
**S/N: 54048**

DESIGN	MP	<b>EAGLE COPTERS LTD</b>	
DRAWN	MP	CALGARY, AB, CANADA	
CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 20 OF 22
APPROVED	MP	TITLE	
DE APPR.	KB	<b>NVIS COMPATIBLE PART INSTL</b>	
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AFFIX 0789-03-201-1 TO THIS SURFACE WHERE SPACE PERMITS

**Figure 16 - CAUTION AND WARNING PANEL MODIFICATION PLACARD LOCATION**



**Figure 17 - GAUGE LIGHTING WIRING DIAGRAM S/N:53309**

(-013 INSTALLATION)

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
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CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 21 OF 22
APPROVED	MP	TITLE <b>NVIS COMPATIBLE PART INSTL</b>	
DE APPR.	KB		
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NOTIFY EAGLE COPTERS THAT THE TB-E407-789-13 HAS  
BEEN INCORPORATED INTO THE AIRCRAFT LISTED BELOW.

AIRCRAFT SERIAL NUMBER:

---

AIRCRAFT OWNER:

---

DATE TB-E407-789-13 WAS INCORPORATED ON THE ABOVE  
AIRCRAFT:

---

SIGNATURE OF PERSON RESPONSIBLE FOR ENTRY INTO  
AIRCRAFT TECHNICAL RECORD:

---

PRINT NAME OF PERSON RESPONSIBLE FOR ENTRY INTO  
AIRCRAFT TECHNICAL RECORD:

---

EMAIL THIS PAGE TO: [customersupport@eaglecopters.com](mailto:customersupport@eaglecopters.com)

DESIGN	MP	<b>EAGLE COPTERS LTD</b> CALGARY, AB, CANADA	
DRAWN	MP		
CHECKED	EB	DRAWING NO.	REV. G
MFG. APPR.	LJ	<b>TB-E407-789-13</b>	SHEET 22 OF 22
APPROVED	MP	TITLE	
DE APPR.	KB	NVIS COMPATIBLE PART INSTL	
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2022-04-12			