

EAGLE TECHNICAL BULLETIN

REF. TCCS STC: SH07-28
REF. FAA STC: SR02831NY

Eagle Technical Bulletin Number: **TB-E212-725-5**

Purpose: To provide instructions for the installation of alternate position/strobe light assemblies.

Eligible Serial Numbers: All

Compliance: Optional

Description: This technical bulletin (TB) provides the information required for the removal and replacement of the upper position light assemblies with alternate position/strobe light assemblies.

Parts List:

ITEM	QTY/ -011	PART NUMBER	DESCRIPTION
	X	TB-E212-725-5-011	Position Strobe Light Installation
1	1	01-0790725-11	OR6502G Green position/strobe light assembly
2	1	01-0790725-12	OR6502R Red position/strobe light assembly
3	1	MS24523-23	Switch, MIL-SPEC

Weight and Balance: The incorporation of this Technical Bulletin has a negligible effect on the rotorcraft weight and balance.

Electrical Load Analysis:

ELECTRICAL LOAD ANALYSIS				
SYSTEM	START & WARM-UP 15 MIN.	TAKEOFF 15 MIN.	CRUISE 15 MIN.	LAND 15 MIN.
TOTAL ALL DC BUSSES	50.9 A	109.7 A	114.0 A	110.2 A
TB-E212-725-5 (Max)	7.5 A	7.5 A	7.5 A	7.5 A
TOTAL ALL DC BUSSES	58.4 A	117.2 A	121.5 A	117.7 A

B	INCORPORATED ECN-212-037 REV A	GS	2025-09-29
A	NEW ISSUE	MC	2021-09-17
REV	DESCRIPTION	BY	DATE
DESIGN	GS	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	N/A	DRAWING NO.	REV. B
CHECKED	CP	TB-E212-725-5	SHEET 1 OF 8
MFG. APPR.	N/A		
APPROVED	AP	TITLE	
DE APPR.	N/A	POSITION/STROBE LIGHT INSTALLATION	
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Procedure:

1. Disconnect the battery and external DC power from the helicopter.
2. Remove required panelling to gain access to the upper right-hand and left-hand position lights, circuit breaker panel and wiring routing from the existing "LT POSN" circuit breaker to the upper right-hand and left-hand position lights.
3. Remove existing upper right-hand position light assembly (P/N 01-0771105-03), retain hardware, and replace with position/strobe light assembly (P/N 01-0790725-11) using retained hardware, see Figure 1.
4. Remove existing upper left-hand position light assembly (P/N 01-0771105-04), retain hardware, and replace with position/strobe light assembly (P/N 01-0790725-12) using retained hardware, see Figure 2.
5. Install right-hand (left-hand) position light wiring in accordance with Figure 3.
6. Install switch (P/N MS24523-23) in accordance with manufacturer's instructions and modify D212-725-5-003 - RH LOWER CB PANEL to include "STROBE LIGHT", as shown in Figure 4.
7. Re-install any removed panelling, structure, and circuit breaker panels.
8. Reconnect power and push in deactivated CB's.
9. Complete the test procedure below for the Position / Strobe Light Installation.
10. Add the Electrical Load Analysis information for this modification into the Aircraft Electrical Load Analysis.
11. Make entry in aircraft technical reports to indicate TB-E212-725-5 has been completed.
12. Notify Eagle Copters that this Technical Bulletin has been accomplished by filling in the attached form (Sheet 8) and emailing it to Eagle Copters.

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Test Procedure:

1. Check all pins for shorts to ground or adjacent pins.
2. Ensure that all cables are properly secured, and shields are connected IAW Figure 3.
3. Ensure that the upper right-hand and left-hand position lights are grounded, and all connectors are disconnected. Record the measurement to airframe ground per the table below.

LRU POINT	GROUND POINT	MEASUREMENT	PASS /FAIL
Suitable ground location on the upper right position light chassis.	Airframe ground near the upper right position light.	3 Milliohms (< 0.003Ω)	Resistance: _____Ω Pass: <input type="checkbox"/> Fail: <input type="checkbox"/> Initial: _____
Suitable ground location on the upper left position light chassis.	Airframe ground near the upper left position light.	3 Milliohms (< 0.003Ω)	Resistance: _____Ω Pass: <input type="checkbox"/> Fail: <input type="checkbox"/> Initial: _____

4. Connect ground power and turn on aircraft power IAW ICA-D212-725.
5. Ensure the upper right-hand and left-hand position lights are powered on.
6. Perform EMI / EMC testing per AC 500-002. Reference Table 1.
7. Turn off aircraft power and disconnect ground power IAW ICA-D212-725.

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Aircraft Systems	EMI Source Lights		EMI Victim Lights		Notes
	YES	NO	YES	NO	
VHF COMM 1					
VHF COMM 2					
NAV (VOR/ILS) No. 1					
NAV (VOR/ILS) No. 2					
GPS1					
GPS2					
Pilot Audio					
Co-pilot Audio					
Public Address System					
Pilot PFD / MFD					
Co-Pilot PFD / MFD					
ADAHRS 1					
ADAHRS 1					
HSVT					
Standby Instrument					
Standby Compass					
Traffic Advisory System (TCAS I)					
Radio Altimeter					
Transponder					
DME					
ELT					
Generator / Inverter					
Exterior Lights					
Interior Lights					
Pumps / Motors					
Pilot Torque					
Pilot Dual Tach					
Co-Pilot Torque					
Co-Pilot Dual Tach					
Ng					
MGT					
Fuel Quantity					
Fuel Pressure					
Engine Oil Temp. and Pressure					
Transmission Oil Temp. and Pressure					
Hydraulic Oil 1 Temp. and Pressure					
Hydraulic Oil 2 Temp. and Pressure					
Generator Voltmeter and Ammeter					
Master Caution Panel					
Fire Detection and Warning					
Other:					
Other:					

Table 1 EMI / EMC Check Sheet

DESIGN		EAGLE COPTERS LTD CALGARY, AB, CANADA
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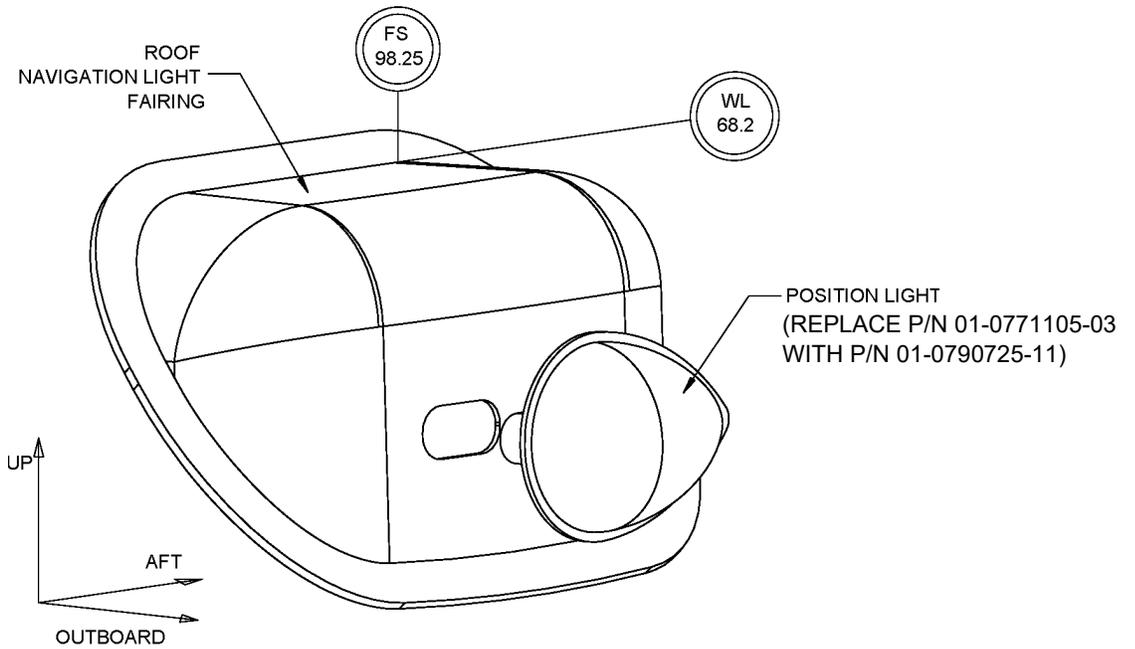


Figure 1 Strobe Light Position (LH Side)

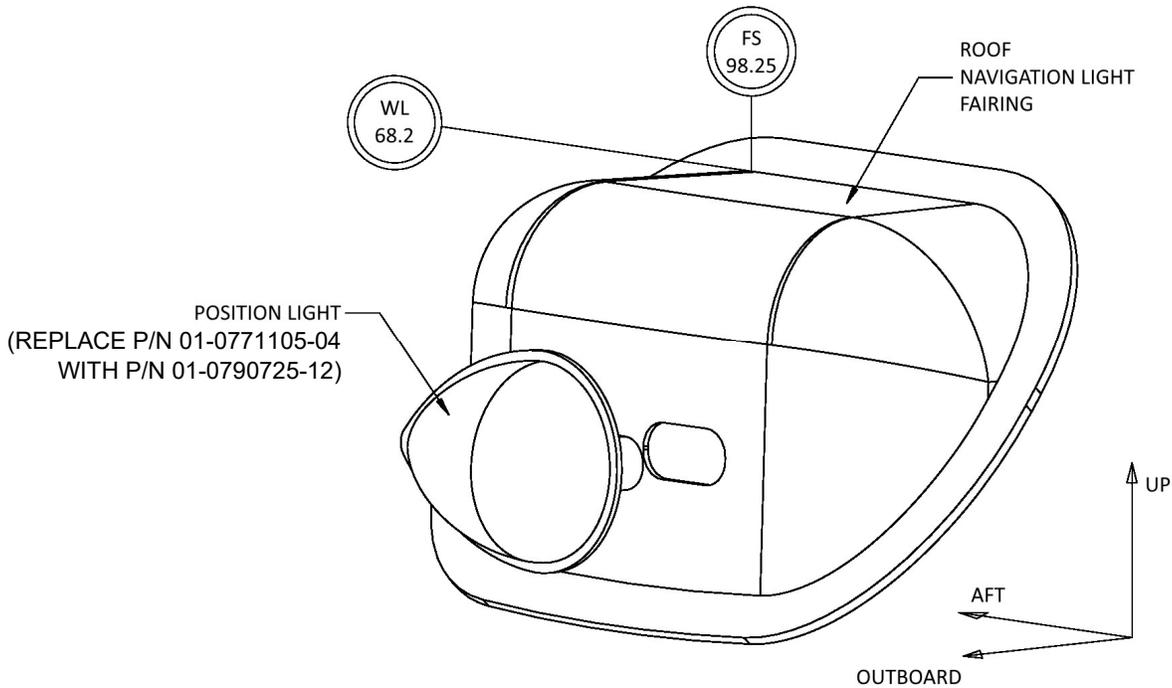
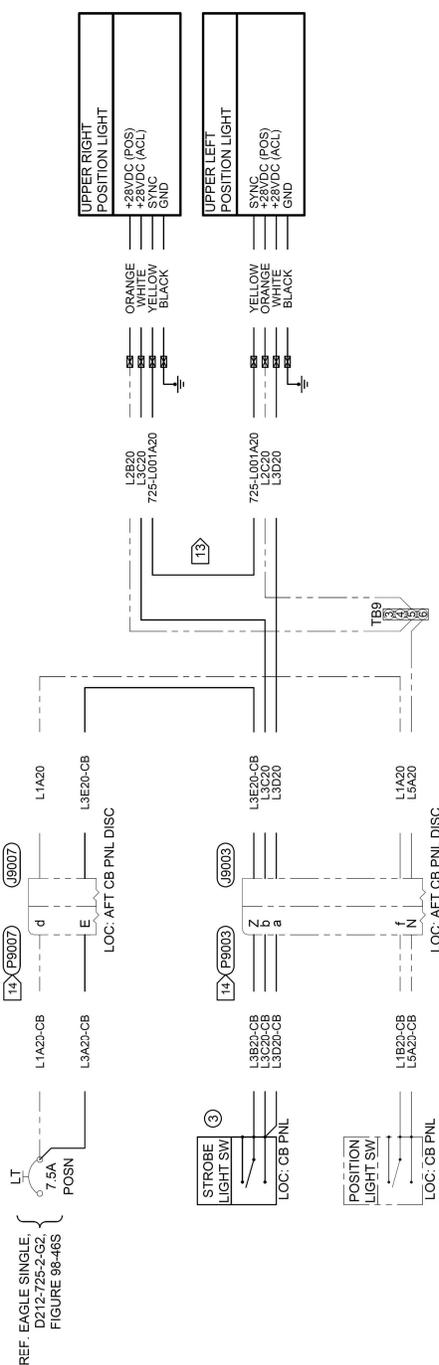


Figure 2 Strobe Light Position (RH Side)

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_____ NEW WIRE / UNIT
 - - - - - EXISTING WIRE / UNIT

NOTES:

- PERFORM ALL WORK IN ACCORDANCE WITH BELL HELICOPTER STANDARD PRACTICES MANUAL BHT-ELEC-SPM.
- ALL NEW UNSHIELDED WIRE USE M22759/41-KXX-9 OR EQUIVALENT TYPE WIRE. (M22759/41-KXX-9 IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS. SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER. USE CRIMP SPLICES FOR ALL WIRE SPLICES.) ALL WIRE SIZES SHALL BE 6 AWG OR LESS UNLESS OTHERWISE SPECIFIED.
- NEW WIRE SHALL BE USED FOR ALL NEW WIRING. USE THE FOLLOWING FOR EQUIVALENT TYPE WIRE: (XX)S(X)N(X)Z IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS, SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER. USE CRIMP SPLICES FOR REPAIR. SOLDER SLEEVES SHALL USE SNGR SOLDER. USE PIN S202X-00 OR EQUIVALENT.
- ALL AIRFRAME GROUNDS SHALL BE VIA AMP LUG OR GROUNDING BLOCK AND PROVIDE SEPARATE GROUND STUD LOCATIONS FOR DC POWER GROUNDS, AC POWER GROUNDS, CHASSIS GROUNDS, SIGNAL GROUNDS AND SHIELD GROUNDS.
- ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM PARAGRAPH 4-9.
- ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 5 AND 7 OR CIRCULAR CONNECTOR INSTALLATION INSTRUCTIONS. ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/sockets OR PLASTIC GROMMET SEALING PLUGS. ENSURE ALL BULKHEAD MOUNTED CONNECTORS ARE PROPERLY BONDED TO AIRFRAME.
- ENSURE ALL SWITCHES, CIRCUIT BREAKERS, AND REMOTE MOUNTED BOXES ARE LABELED WITH A CONSISTENT SIZE, FONT, COLOR, BACKGROUND AND ARE ILLUMINATED CONSISTENT AS EXISTING LABELS.
- ROUTE ALL WIRES AND CABLES WITH EXISTING WIRE ROUTES WHERE POSSIBLE AND CLAMP IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 6. WIRES MUST BE ROUTED WITH A MINIMUM OF 6 INCHES OF SEPARATION FROM OTHER WIRES.
- INSTALL SYSTEM IN ACCORDANCE WITH THE LATEST REVISION OF THE MANUFACTURER'S INSTALLATION MANUAL.
- LOWERCASE LETTER CONNECTOR PIN DESIGNATORS ARE SHOWN AS UNDERLINED UPPERCASE LETTERS.
- 20 AWG POWER WIRES NOT TO EXCEED 25 FT FROM A 7.5A CIRCUIT BREAKER.
- OPTIONAL INSTALLATION. IF SYNCHRONIZATION IS NOT NECESSARY, THE CONNECTION MAY BE LEFT OPEN AND THE YELLOW WIRES ARE CAPPED AND STOWED.
- OPTIONAL INSTALLATION. IF SYNCHRONIZATION IS NOT NECESSARY, IF DISCONNECTS ARE NOT INSTALLED, TERMINATE WIRES AS SHOWN. IF DISCONNECTS ARE INSTALLED, TERMINATE WIRES AT J SIDE OF CONNECTORS DIRECTLY TO THE CIRCUIT BREAKER, STROBE LIGHT SWITCH, AND POSITION LIGHT SWITCH.

REF: EAGLE SINGLE,
 D212-725-2-G2,
 FIGURE 98-46S

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Figure 3 Installation Wiring Diagram

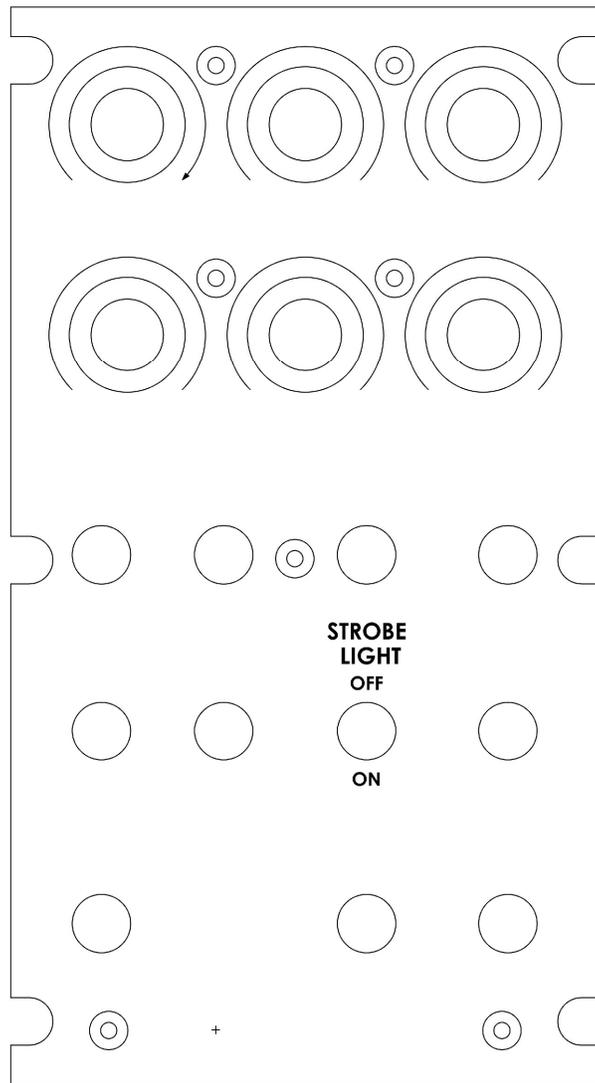


Figure 4 D212-725-5-003 RH lower CB panel

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NOTIFY EAGLE COPTERS THAT THE TB-E212-725-5 HAS BEEN INCORPORATED INTO THE AIRCRAFT LISTED BELOW.

AIRCRAFT SERIAL NUMBER: _____

AIRCRAFT OWNER: _____

DATE TB-E725-725-5 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

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