

EAGLE TECHNICAL BULLETIN

REF. TCCS STC: SH07-28

REF. FAA STC: SR02831NY

Eagle Technical Bulleting 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

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

APPROVED

BY: 
D. SHEPHERD (DE #02)

DATE: 2022-01-15
CERT. NO.: SH07-28
ISSUE NO.: 2

A	NEW ISSUE	MC	2021-09-17
REV	DESCRIPTION	BY	DATE
DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 1 OF 8
APPROVED	KB	TITLE	
DE APPR.		POSITION/STROBE LIGHT INSTALLATION	
DATE	2021-09-17	COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	

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.

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 2 OF 8
APPROVED	KB	TITLE	
DE APPR.		POSITION/STROBE LIGHT INSTALLATION	
DATE		COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	
2021-09-17			

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 ($< 0.003\Omega$)	Resistance: _____ Ω Pass: ☐ Fail: ☐ Initial: _____
Suitable ground location on the upper left position light chassis.	Airframe ground near the upper left position light.	3 Milliohms ($< 0.003\Omega$)	Resistance: _____ Ω Pass: ☐ Fail: ☐ 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.

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 3 OF 8
APPROVED	KB	TITLE	
DE APPR.		POSITION/STROBE LIGHT INSTALLATION	
DATE		COPYRIGHT © 2021 BY EAGLECOPTERS LTD.	
2021-09-17		THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	

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	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 4 OF 8
APPROVED	KB	TITLE POSITION/STROBE LIGHT INSTALLATION	
DE APPR.			
DATE	2021-09-17	COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	

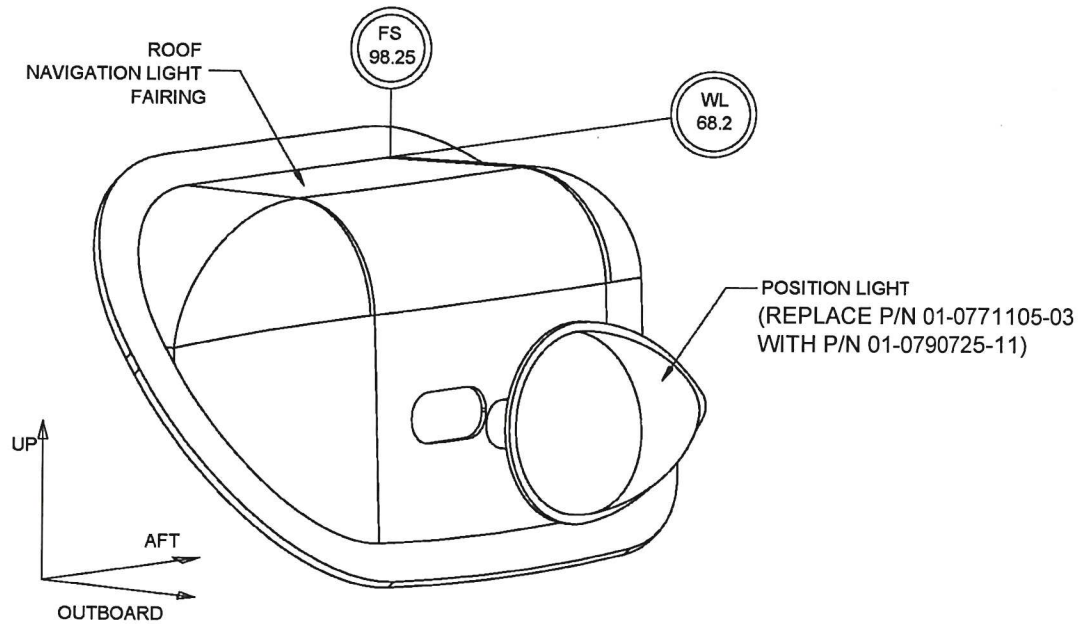


Figure 1 Strobe Light Position (LH Side)

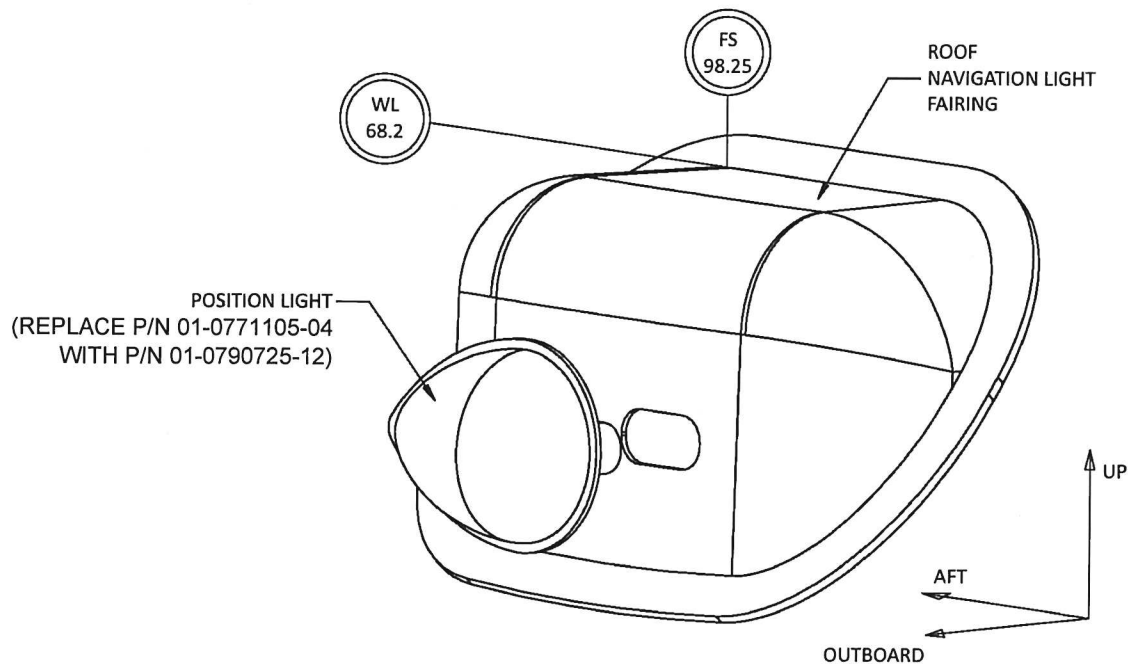


Figure 2 Strobe Light Position (RH Side)

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 5 OF 8
APPROVED	KB	TITLE POSITION/STROBE LIGHT INSTALLATION	
DE APPR.			
DATE	2021-09-17		
COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVET AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FPR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.			



- Q

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5 SHEET 6 OF 8	
APPROVED	KB	TITLE	
DE APPR.		POSITION/STROBE LIGHT INSTALLATION	
DATE		COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	
2021-09-17			

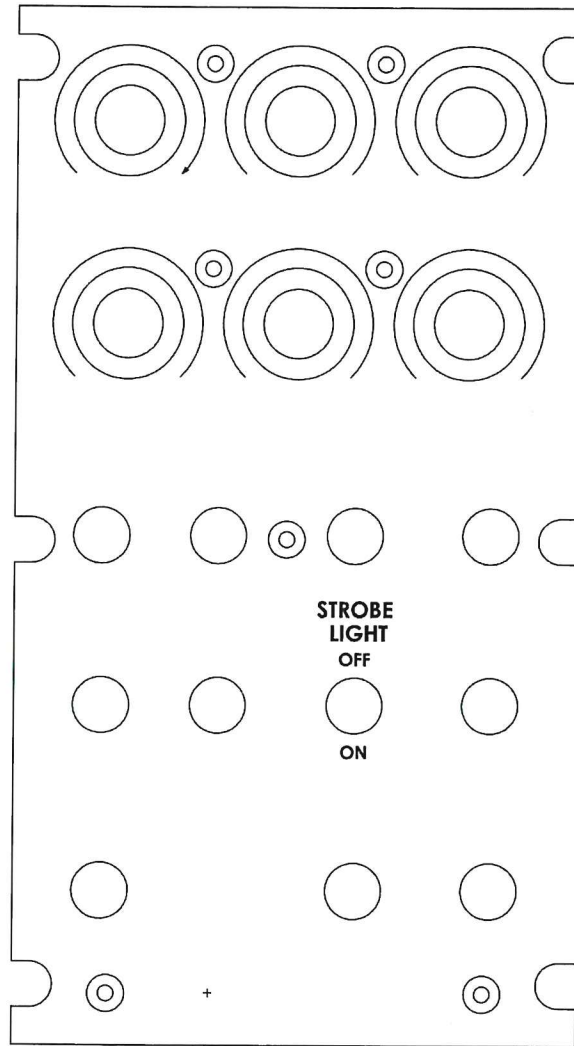


Figure 4 D212-725-5-003 RH lower CB panel

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 7 OF 8
APPROVED	KB	TITLE POSITION/STROBE LIGHT INSTALLATION	
DE APPR.			
DATE	COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVET AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FPR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.		
2021-09-17			

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

DESIGN	MC	EAGLE COPTERS LTD CALGARY, AB, CANADA	
DRAWN	MC		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	CD/CG	TB-E212-725-5	SHEET 8 OF 8
APPROVED	KB	TITLE	
DE APPR.		POSITION/STROBE LIGHT INSTALLATION	
DATE		COPYRIGHT © 2021 BY EAGLECOPTERS LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLECOPTERS LTD.	
2021-09-17			