Aeronautical
ACCESSORIES™

450 INDUSTRIAL PARK ROAD, TENNESSEE 37686-4419 USA
TELEPHONE: 423-538-5151 TOLL FREE: 800-251-7094
TELEFAX: 423-538-8469 E-MAIL: sales@aero-access.com
techsupport@aero-access.com

INSTALLATION INSTRUCTIONS

VERTICAL FIN CAP WITH LED LIGHT KIT

407-003-005 (206B, 206L, L-1, L-3, L-4, & 407 S/N 53000 – 54299)
407-003-006 (407 S/N 54300 – SUB)
407-003-007 (407 S/N 54300 – SUB)
407-003-008 (407 S/N 53000 – 54299)

FOR

BELL TEXTRON CANADA LIMITED
MODEL 206B, 206L, L-1, L-3, L-4, 407 HELICOPTERS

Report Number AA-06109

Revision L

October 3, 2023

ECCN
9E991

RESTRICTED DISCLOSURE NOTICE ON PAGE 2

RESTRICTED DISCLOSURE NOTICE

THE DRAWINGS, SPECIFICATIONS, DESCRIPTIONS, AND OTHER TECHNICAL DATA ATTACHED HERETO ARE PROPRIETARY AND CONFIDENTIAL TO BELL TEXTRON, INC (BTI) AND CONSTITUTE TRADE SECRETS FOR PURPOSES OF THE TRADE SECRET AND FREEDOM OF INFORMATION ACTS. NO DISCLOSURE TO OTHERS, EITHER IN THE UNITED STATES OR ABROAD, OR REPRODUCTION OF ANY PART OF THE INFORMATION SUPPLIED IS TO BE MADE, AND NO MANUFACTURE, SALE OR USE OF ANY INVENTION OR DISCOVERY DISCLOSED HEREIN SHALL BE MADE, EXCEPT BY WRITTEN AUTHORIZATION OF BTI. THIS NOTICE WILL NOT OPERATE TO NULLIFY OR LIMIT RIGHTS GRANTED BY CONTRACT. THE DATA SUBJECT TO THIS RESTRICTION IS CONTAINED IN ALL SHEETS AND IS DISCLOSED TO PERSONNEL OF BTI, FOR THE PURPOSE(S) OF INTERNAL USE AND DISTRIBUTION ONLY.

Rev	Date	Description	Pages	Prepared By / Approved By
-	11/22/06	Original Release	All	
A	10/16/08	Removed 407-003-002 Vertical Fin Cap Kit	All	N/A / N/A
		Removed 407-003-003 Auxiliary Anti-Collision Light Kit	All	
		Updated format	All	
		Added 407-003-005 Vertical Fin Cap w/LED Light Kit	All	
		Revised note to add maximum antenna size information – Section 1.1	4	
		Revised note to add "See Section 3.0 for procedure to determine if installation of OEM, quartz anti-collision light to belly of aircraft is required"	4	
		Added note to Section 2.0	5	
		Added notes 2.1 and 2.2 to Section 2.0	5	
		Created Section 3.0 (previously part of Section 4.0) for procedure to determine if belly light is required	5-6	
		Revised Section 4.0 (previously Section 3.0) specific to 407-003-005 Vertical Fin Cap w/LED Light Kit	6-8	
		Revised Section 5.0 (previously Section 4.0) specific to installing OEM, quartz anti-collision light to belly of aircraft, if required (ref Sec. 3.0)	8-9	
		Revised weight and balance data and formatted as Table 1	10	
		Revised Figure 1 – drilled hole diameter was .143-.146	11	
		Added new Figure 2 – Maximum Antenna Envelope	12	
		Revised Figure 3 (was Figure 2) – to show LED light - pictorially	13	
		Revised Figure 4 (was Figure 3) – to show LED light - pictorially	14	
		Revised Figure 5 (was Figure 4) – wiring diagram for LED light	15	
		Added Figure 6 – wiring diagram for LED light w/OEM, quartz light mounted on belly of aircraft	16	
		Revised Figure 7 (was Figure 5) – removed 2nd power supply for auxiliary light and added notes	17	
		Added new Figure 8 – LED Light Installed	18	
		Revised Parts List (formatted as Table 2): 407-003-005 Vertical Fin Cap W/LED Light Kit was 407-003-002 Vertical Fin Cap Kit and 407-003-003 Auxiliary Anti-Collision Light Kit	19	
		Revised Parts List (formatted as Table 3) - 407-003-051 Wiring Kit was 407-003-050 Wiring Kit	20	
		Added Table 4 - Parts List for Documentation Required	20	
B	2/18/09	Reason for Change: Incorporation of Arc Tube.		N/A / N/A
		Section 4.0: Incorporated installation of Arc Tube and reformatted	6	
		Section 5.0: Reformatted	8	
		Figure 5.0: Replaced with new figure showing incorporation of Arc Tube.	16	
		Figure 6.0: Replaced with new figure showing incorporation of Arc Tube.	17	
		Table 2: Updated list of parts.	20	
		Table 3: Updated list of parts.	21	

Rev	Date	Description	Pages	Prepared By / Approved By
C	1/7/10	Revised Hardware in Section 4.2.3. Revised Figure 8 Deleted MS20426AD4-10 Rivet, MS20601AD4W10 Rivet, & 140-001-1 Washer from Parts List. Added MS20426AD5-9 Rivet, MS20601AD5W6 Rivet, & 140-001-3 Washer to Parts List	8,9 20 21 21	N/A / N/A
D	01/07/10	Reason for Change: Incorporation of 206B & 206L Series Helicopters. Incorporated 206B, 206L, L-1, L-3, & L-4 Models in Section 1.0. Added STC No. in Section 1.0. Added Note to Section 1.1. Added 206 Maintenance Manual to note in Section 2.0. Revised Section 4.3 to include 206B and 206 L Series Models. Added Note to Section 4.2.8 Revised Sections 4.3.1 - 4.3.4 & Section 4.4.1 Revised Section 4.4.1 to include Station Lines for 206B and 206L Series Models. Added Section 5.5. Revised Weight and Balance Tables to include 206B and 206 L Series Models. Removed Figures that depicted Drawing 407-003 Sheets and referenced instructions to Drawing 407-003. Resequenced Page Numbers, Sheet References, and Figure Numbers	 5 5 5 6 9 9 9 10 11 12-14 All All	N/A / N/A
E	8/5/10	Revised Section 1.1 to reduce antenna weight limitations of 206 Series.	5	PW / PJB
F	9/02/10	Revised Section 4.3 and removed Sections 4.3.1 - 4.3.4 due to relocation of Arc Tube. Revised MS25274-2 Cap QTY in Parts List. Deleted M81824/1-2 Splice (Blue), and M39029/56-352 from Parts List. Deleted L11E18W, L11F18W, & L11G18B Wires from Parts List.	 9 18 18 19	PW / PJB
G	1/08/13	Updated report to current standards. Revised Section 1.1. Revised Section 3.1, 3.2, & 3.4. Revised Section 4.0 to add S/N break. Revised Section 4.2.3. Revised Section 5.0 to add S/N break. Revised Section 5.1.1 & 5.2.3. Created Section 6.0 & 7.0. Added S/N Break to Table 1. Created Table 4. Revised Sheet Number Reference on Figure 1 & 2. Created 412-003-006 and -007 Kits on PL	ALL 5 7 8 8 10 11 12, 13 15 18 19, 20 22, 23	PW / BL
H	7/10/13	Deleted MS24693-32 QTY 4 Added MS24693-C32 QTY 4 Revised Section 7.2.1 to correct Adaptor P/N	22 22 13	PW / BL

Rev	Date	Description	Pages	Prepared By / Approved By
		Revised Section 7.2.3 to correct Adaptor P/N and Screw P/N	14	
I	11/21/13	Added Alt. DCF-0230L to the Parts List	23	MYC / BL
J	12/18/14	Deleted Wire # L20A22 FROM -051 PL.	24	PW / BL
K	9/28/17	Added-008 to Section 1.0 Added-008 to Section 7.0 Added-008 to Weight and Balance Added-008 to PL Added the following parts to -008 PL (1) 01-0771080-01 LED Anti-Collision Light (5 IN) M23053/5-204-C Heatshrink Clear (1) M81714/65-22-2 Splice (2) M83519/1-2 Splice (4) MS21042-06 Nut (1) MS25036-103 Terminal Ring (4) MS24693-C32 Screw (4) NAS1149DN632J Washer	6 14-15 19 23 23	PW / BL
L	10/3/23	Added note to Section 1.1 to allow electrical access hole to be opened up. Added New Figure 1 to Section 1.1 to clarify electrical access hole location. Resequenced all figure numbers.	7 7 All	PW

This data has been approved by
BTI ODA-710621-SW, IAW the
FAA-approved ODA Procedures Manual

Christopher M Rowe
Digitally signed by Christopher M Rowe
Date: 2023.10.25 08:39:33 -04'00'

Authorized Signature/Date

1.0 GENERAL INFORMATION

1.1 INTRODUCTION

These instructions contain the necessary information to install **AERONAUTICAL ACCESSORIES VERTICAL FIN CAP WITH LED LIGHT KIT (407-003-005)** on Bell Helicopter Textron Canada Limited 206B, 206L, L-1, L-3, L-4, 407 S/N 53000 – 54299 model helicopters. These instructions also contain the necessary information to install **AERONAUTICAL ACCESSORIES VERTICAL FIN CAP KIT (407-003-006) or the LED ANTI-COLLISION BELLY LIGHT KIT (407-003-007)** on Bell Helicopter Textron Canada Limited 407 S/N 54300 – SUB model helicopters **or the LED ANTI-COLLISION BELLY LIGHT KIT (407-003-008)** on Bell Helicopter Textron Canada Limited 407 S/N 53000 – 54299 model helicopters. All Engineering aspects of these instructions are FAA approved under BTI STC No. SR09533RC-D.

The Vertical Fin Cap with LED Light Kit provides a replacement for the factory installed Vertical Fin Fairing Assembly to allow for mounting a variety of antennas, (See Section 3.0 for antenna size limitations), along with replacing the factory installed (OEM) quartz, anti-collision light with a state-of-the-art, LED anti-collision light. The Kit also provides for re-location of the OEM, quartz anti-collision light to the belly of the aircraft, to comply with FAA anti-collision light requirements, if required.

NOTE

Weight of antenna to be installed may not exceed 1 lb (0.45 kg) for 407 installations, and 0.75 lb (0.34 kg) for 206 Series installations. Size of antenna to be installed may not exceed the maximum antenna envelope shown in Figure 1. See Drawing 407-003, Sheet 13, for a full scale template of the maximum antenna envelope. Verify the template is to full scale with a measuring scale.

NOTE

Installation of antenna is to be accomplished in accordance with antenna manufacturer's instructions.

NOTE

If required, it is permissible to open up the existing .44 diameter hole in the top of the vertical fin to provide clearance for the antenna connector. Care should be taken to prevent damage to the sides of the vertical fin when enlarging the hole.

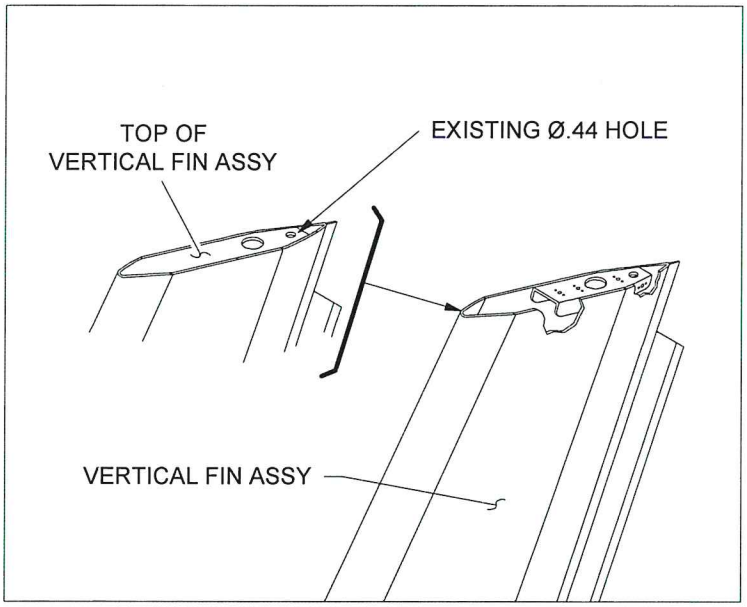

FIGURE 1 – VERTICAL FIN ASSY

NOTE

If the size of antenna to be installed is larger than the envelope shown in Figure 2, the OEM, quartz anti-collision light must be installed on the belly of the aircraft. See Section 3.0 for procedure to determine if installation of OEM, quartz anti-collision light to belly of aircraft is required.

NOTE

Maintain a minimum of two times fastener diameter edge distance when installing the antenna onto the mounting surface of the vertical fin cap assembly.

NOTE

Due to the difference in wiring nomenclature, the wiring diagrams for the "Vertical Fin Cap with LED Light" and "Vertical Fin Cap with LED Light with OEM Quartz Light on Belly of Aircraft" have been separated for the 407, 206B, and 206 L series. After determining if a belly light is required per Section 3.0, identify the appropriate wiring diagram (Sheet 4, 5, 6, 7, 8 or 9) for the model of helicopter and refer to it for the remainder of the installation.

The Vertical Fin Cap Kit provides a replacement for the factory installed Vertical Fin Fairing Assembly to allow for mounting a variety of antennas. (See Section 3.0 for antenna size limitations).

The LED Anti-Collision Light provides for locating an anti-collision light to the belly of the aircraft, to comply with FAA anti-collision light requirements, if required.

NOTE

Weight of antenna to be installed may not exceed 1 lb (0.45 kg) for 407 installations. Size of antenna to be installed may not exceed the maximum antenna envelope shown in Figure 2. See Drawing 407-003, Sheet 13, for a full scale template of the maximum antenna envelope. Verify the template is to full scale with a measuring scale.

NOTE

Installation of antenna is to be accomplished in accordance with antenna manufacturer's instructions.

NOTE

If the size of antenna to be installed is larger than the envelope shown in Figure 3, an anti-collision light must be installed on the belly of the aircraft. See Section 3.0 for procedure to determine if installation of an anti-collision light to belly of aircraft is required.

NOTE

Maintain a minimum of two times fastener diameter edge distance when installing the antenna onto the mounting surface of the vertical fin cap assembly.

1.2 **SPECIAL TOOLS**

No special tools are required to accomplish this installation.

1.3 **UNPACKING AND INSPECTING EQUIPMENT**

Carefully unpack the equipment and note any damage to the shipping containers or equipment. Visually inspect for evidence of damage. Report any evidence of damage to Aeronautical Accessories immediately.

2.0 PRE-INSTALLATION PREPARATION

NOTE

Refer to Bell Helicopter Model 407 or 206 Maintenance Manual and all applicable maintenance manuals and/or ICA's for disassembly/reassembly instructions not specifically addressed in this document.

2.1 General shop practices to be in accordance with AC43.13.

2.2 Items removed from helicopter should be tagged for identification and protected from damage.

2.3 Following any drilling or cutting operation, remove burrs and metal particles. Apply a thin coat of primer to bare metal per MIL-PRF-23377, except when hole is used for grounding.

2.4 Unless otherwise noted, do not string, tie, or clamp wire bundles or cables until all wiring has been routed and connected.

2.5 When installing ground wires, or components requiring grounding, clean structure surface to provide good electrical contact.

2.6 All wiring and wire routing to be installed in accordance with AC43.13-1, Chapter 11, and component manufacturer recommendations.

2.7 Ground aircraft and ensure battery master switch is OFF prior to beginning installation.

3.0 DETERMINING REQUIREMENT FOR BELLY LIGHT

3.1 To determine if the antenna being installed requires installing the OEM, anti-collision light to the belly of the aircraft, proceed as follows:

NOTE

Figure 3 shows the orientation of the maximum antenna envelope not requiring an additional anti-collision light in relation to the helicopter. See Drawing 407-003, Sheet 12, for a full scale template of the maximum antenna envelope to be used to determine acceptance or un-acceptance of your respective antenna. Verify the template is to full scale with a measuring scale before starting the evaluation.

3.2 Using the template, from Drawing 407-003, Sheet 12, place the antenna's mounting side on the top-view. If needed, cut holes through the template to allow the mounting post(s) of the antenna to protrude. Move the antenna to the left (fwd), ensuring the antenna's perimeter remains inside the cross section. If any portion of the antenna's perimeter falls outside the cross section, you must install an, anti-collision light on the belly of the aircraft, per Section 5.0 or Section 7.0. If the entire perimeter of the antenna is still within the cross section, proceed to the next step.

3.3 With the antenna still positioned as described above, draw a perpendicular line downward from the right-most (aft) point of the antenna until the line intersects the antenna mounting surface line shown in the side-view of the template (Ref. Figure 3). This point represents the aft-most point the antenna can be located on the mounting surface.

3.4 Verify antenna area does not exceed the cross section remaining to the left of the perpendicular line, shown in the side view of the template. If antenna area exceeds, you must install an anti-collision light on the belly of the aircraft, per Section 5.0 or Section 7.0.

NOTE

If antenna is asymmetrical and fails to meet the envelope criteria above, re-orient the antenna and repeat steps 3.2 through 3.4. Figure 4 provides examples of acceptable and unacceptable antenna configurations.

4.0 VERTICAL FIN CAP WITH LED LIGHT KIT INSTALLATION P/N 407-003-005 (BTCL 206B, 206L, L-1, L-3, L-4, & 407 SN 53000 – 54299)

Install in accordance with Drawing 407-003 (Ref. Sheets 3 and 14).

NOTE

Selection and installation of antenna to Vertical Fin Cap Assembly (407-002-101) is to be accomplished in accordance with Section 1.1 and antenna manufacturer's installation instruction's prior to installing Vertical Fin Cap to aircraft.

NOTE

Ensure Anti-Collision Light mounting surface on the AA Vertical Fin Cap Assembly will be at the same W.L. as the light mounting surface on the OEM Vertical Fin Fairing before proceeding with installation.

4.1 Prepare LED Anti-Collision Light:

4.1.1 Install Connector (1-480305-0) to leads of LED Anti-Collision Light (01-0771080-01) using Contacts (Pins) (60618-1), as shown on Drawing 407-003, Sheet 4, 5, 6, 7, 8 or 9.

4.2 Vertical Fin Cap and LED Anti-Collision Light Installation:

4.2.1 Remove existing Vertical Fin Fairing Assembly from aircraft tail fin.

4.2.2 Remove and retain existing OEM, quartz anti-collision light, light mounting base, and shield from Vertical Fin Fairing Assembly, removed in step 4.2.1.

4.2.3 Locate and install Shield (BTI P/N 206-031-243-X), removed in step 4.2.1, and LED Anti-Collision Light (01-0771080-01) on Vertical Fin Cap Assembly (407-002-101) wet using Sealant (099-050-222) with Rivets (MS20426AD5-9) and Washers (140-001-3), as shown on Drawing 407-003, Sheet 14.

NOTE

Refer to Whelen Installation Guide along with Drawing 407-003, when installing LED Anti-Collision light (01-0771080-01) to Vertical Fin Cap Assembly (407-002-101).

NOTE

Ensure Shield orientation will be as shown on Drawing 407-003, Sheet 14 before proceeding to install Vertical Fin Cap Assembly (407-002-101) to aircraft.

NOTE

Alternate method of installing Shield and LED Anti-Collision Light to Vertical Fin Cap Assembly: Locate Shield (BTI P/N 206-031-243-X) and LED Anti-Collision Light (01-0771080-01) to Vertical Fin Cap Assembly (407-002-101) as shown on Drawing 407-003, Sheet 14. Match drill Vertical Fin Cap Assembly .128/.133 diameter (4 places). Install Vertical Fin Cap to tail fin, per steps 4.2.4 through 4.2.8, ensuring the wiring from LED light passes through the hole in the Shield. Install Shield and LED Anti-Collision Light to Vertical Fin Cap Assembly wet using Sealant (099-050-222) with Rivets (MS20601AD5W6) and Washers (140-001-3), as shown on Drawing 407-003, Sheet 14.

4.2.4 Attach Connector (1-480305-0), installed in step 4.1.1, to aircraft connector (8DS3J1) on top of tail fin.

4.2.5 Position Vertical Fin Cap Assembly (407-002-101) to aircraft tail fin as shown on Drawing 407-003, Sheet 3.

4.2.6 Match drill Vertical Fin Cap Assembly (407-002-101) to existing vertical fin rivet locations as shown on Drawing 407-003, Sheet 3.

4.2.7 Apply layer of Sealant (099-050-222) to mating surfaces of Vertical Fin Cap Assembly (407-002-101) and vertical fin. Remove excess sealant from drain hole.

4.2.8 Wet install rivets (MS20600AD4W2) with Sealant (099-050-222).

NOTE

Before proceeding with step 4.3, locate and use the appropriate model schematic in Drawing 407-003 (Ref: Sheets 4-9).

4.3 Install Arc Tube (DCF-0090L) as shown Drawing 407-003.

4.4 Modification based on antenna evaluation:

4.4.1 If size of antenna being installed does not require locating the OEM, quartz anti-collision light to the belly of the aircraft, complete wiring as shown on Drawing 407-003, Sheet 4, 5, or 6. Remove OEM, quartz anti-collision Power Supply (P/N A490A) at (8PS1) STA 183.00, 179.66, or 154.66 / (+) 10.00 B.L., along with attaching hardware, and wire, from aircraft.

If size of antenna being installed does require locating the OEM, quartz anti-collision light to the belly of the aircraft, complete wiring as shown on Drawing 407-003, Sheet 7, 8, or 9, along with Section 5.0.

4.5 Vertical Fin Cap with LED Anti-Collision Light Installation complete.

5.0 INSTALLATION OF OEM, QUARTZ ANTI-COLLISION LIGHT TO BELLY OF AIRCRAFT – P/N 407-003-005 (BTCL 206B, 206L, L-1, L-3, L-4, & 407 S/N 53000 – 54299) (IF REQUIRED - REFERENCE SECTION 3.0)

Install OEM, quartz anti-collision light (01-0770019-21), per Drawing 407-003, Sheets 7,8,9 & 11.

NOTE

Location for OEM, quart anti-collision light (01-0770019-21), shown on Drawing 407-003, Sheet 11 is the recommended location. Alternate locations may be used if additional equipment is mounted at or near the shown location. If an alternate location is used; it is the installer's responsibility to ensure that all mounting locations and orientations comply with the equipment's installation instructions, approval of deviation is obtained and weight and balance is calculated.

5.1 Aircraft preparation for light installation:

5.1.1 Determine position for OEM, quartz anti-collision light (01-0770019-21) and mark panel for modification, per Drawing 407-003, Sheet 11.

5.1.2 Drill four .094" diameter pilot holes through outer skin only. Drill one 1.00" diameter hole.

5.1.3 Undercut core, as specified, around the four (.094"diameter) holes and the 1.00" diameter hole.

5.1.4 Deburr holes and remove debris and loose material from cavity and surface of panel. Mask circumference of 1.00" diameter hole.

5.1.5 Fill cavity full of adhesive (099-050-121).

5.1.6 Remove excess adhesive and allow to cure for 24 hours at room temperature before handling. Full cure is achieved in 7 days.

5.1.7 Remove tape. Sand surface of area with fine grit Scotchbrite pad, or equivalent.

5.1.8 Brush alodine bare aluminum per MIL-DTL-5541.

5.1.9 Prime with epoxy polyamide per MIL-PRF-23377, Type 1, Class C2.

5.2 Light Installation:

5.2.1 Align light mounting base (Ref. P/N 07-730068-000), previously removed from Vertical Fin Fairing Assembly (Ref. step 4.2.2), to .094" diameter pilot holes, along with Doubler (407-002-127), and match drill .143/.149 diameter holes (4 places).

5.2.2 Apply coat of Sealant (099-050-222) to contacting surfaces prior to assembly.

5.2.3 Install light mounting base (Ref. P/N 07-730068-000) and Doubler (407-002-127) to prepared area of aircraft using Screws (MS35206-231), Washers (NAS1149DN632J), and Nuts (MS21042-06), as shown on Drawing 407-003 Sheet 11. Final Torque to 3-6 in lbs. (does not include tare torque).

5.3 Wire Installation:

5.3.1 Complete wiring of OEM, quartz anti-collision light in accordance with Drawing 407-003, Sheet 7,8, or 9.

5.4 Installation of OEM, quartz anti-collision light to belly of aircraft complete.

5.5 Perform Weight and Balance for applicable model per Tables 1, 2, or 3.

6.0 VERTICAL FIN CAP WITH OEM LED LIGHT KIT INSTALLATION P/N 407-003-006 (BTCL 407 SN 54300 – SUB)

Install in accordance with Drawing 407-003 (Ref. Sheets 3 and 14).

NOTE

Selection and installation of antenna to Vertical Fin Cap Assembly (407-002-101) is to be accomplished in accordance with Section 1.1 and antenna manufacturer's installation instruction's prior to installing Vertical Fin Cap to aircraft.

NOTE

Ensure Anti-Collision Light mounting surface on the AA Vertical Fin Cap Assembly will be at the same W.L. as the light mounting surface on the OEM Vertical Fin Fairing before proceeding with installation.

6.1 Vertical Fin Cap and LED Anti-Collision Light Installation:

6.1.1 Remove existing Vertical Fin Fairing Assembly from aircraft tail fin.

6.1.2 Remove and retain existing OEM, LED anti-collision light, light adapter, and shield from Vertical Fin Fairing Assembly, removed in step 6.1.1.

6.1.3 Match drill Vertical Fin Cap Assembly (407-002-101) to existing vertical fin rivet locations as shown on Drawing 407-003, Sheet 3.

6.1.4 Apply layer of Sealant (099-050-222) to mating surfaces of Vertical Fin Cap Assembly (407-002-101) and vertical fin. Remove excess sealant from drain hole.

6.1.5 Wet install rivets (MS20600AD4W2) with Sealant (099-050-222).

6.2 Modification based on antenna evaluation:

6.2.1 Reinstall OEM, LED anti-collision light on new vertical fin cap.

If size of antenna being installed requires an anti-collision light on the belly of the aircraft, complete wiring as shown on Drawing 407-003, Sheet 10, along with Section 7.0.

6.2.2 Vertical Fin Cap with LED Anti-Collision Light Installation complete.

7.0 INSTALLATION OF LED ANTI-COLLISION LIGHT TO BELLY OF AIRCRAFT P/N 407-003-007 – (BTCL 407 S/N 54300 – SUB) OR P/N 407-003-008 – (BTCL 407 S/N 53000 – 54299) (IF REQUIRED - REFERENCE SECTION 3.0)

Install anti-collision light (01-0771080-01), per Drawing 407-003, Sheet 10 or Sheet 15.

NOTE

Location for anti-collision light (01-0771080-01), shown on Drawing 407-003, Sheet 11 is the recommended location. Alternate locations may be used if additional equipment is mounted at or near the shown location. If an alternate location is used; it is the installer's responsibility to ensure that all mounting locations and orientations comply with the equipment's installation instructions, approval of deviation is obtained and weight and balance is calculated.

7.1 Aircraft preparation for light installation:

7.1.1 Determine position for anti-collision light (01-0771080-01) and mark panel for modification, per Drawing 407-003, Sheet 11.

7.1.2 Drill four .094" diameter pilot holes through outer skin only. Drill one 1.00" diameter hole.

7.1.3 Undercut core, as specified, around the four (.094"diameter) holes and the 1.00" diameter hole.

7.1.4 Deburr holes and remove debris and loose material from cavity and surface of panel. Mask circumference of 1.00" diameter hole.

7.1.5 Fill cavity full of adhesive (099-050-121).

7.1.6 Remove excess adhesive and allow to cure for 24 hours at room temperature before handling. Full cure is achieved in 7 days.

7.1.7 Remove tape. Sand surface of area with fine grit Scotchbrite pad, or equivalent.

7.1.8 Brush alodine bare aluminum per MIL-DTL-5541.

7.1.9 Prime with epoxy polyamide per MIL-PRF-23377, Type 1, Class C2.

7.2 Light Installation:

7.2.1 Disassemble anti-collision light (Ref. 01-0771080-01). Align light adapter plate (Ref. 07-771051-100), to .094" diameter pilot holes, along with Doubler (407-002-127), and match drill .143/.149 diameter holes (4 places).

7.2.2 Apply coat of Sealant (099-050-222) to contacting surfaces prior to assembly.

7.2.3 Install light adapter plate (Ref. P/N 07-771051-100) and Doubler (407-002-127) to prepared area of aircraft using Screws (MS24693-C32), Washers (NAS1149DN632J), and Nuts (MS21042-06), as shown on Drawing 407-003 Sheet 11. Reassemble LED Anti-Collision Light. Final Torque to 3-6 in lbs. (does not include tare torque).

7.3 Wire Installation:

7.3.1 Complete wiring of anti-collision light in accordance with Drawing 407-003, Sheet 10 or Sheet 15.

7.4 Installation of LED anti-collision light to belly of aircraft complete.

7.5 Perform Weight and Balance for applicable model per Tables 1, 2, or 3.

TABLE 1 - WEIGHT AND BALANCE OF MODEL 407 (S/N 53000 – 54299)

Weight and Balance information is as follows:

*** Vertical Fin Cap with LED Light Kit**

Weight (net)	Station	Lateral Arm
-1.00 lb	65.54 in	12.90 in
(-.45 kg)	(1664.72 mm)	(327.66 mm)

**** Vertical Fin Cap with LED Light Kit and OEM, Quartz Light on Belly**

Weight (net)	Station	Lateral Arm
.89 lb	310.62 in	4.10 in
(.40 kg)	(7889.75 mm)	(104.14 mm)

* Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light Power Supply (P/N A490A) removed from aircraft at (8PS1) STA 183.00 / (+) 10.00 B.L.

** Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light installed at STA 171.00 / (+) 3.00 B.L.

After installation is complete, the aircraft should be weighed in accordance with the applicable Maintenance Manual instructions and ballast adjusted as necessary to return the helicopter empty weight Center of Gravity to within allowable limits.

TABLE 2 - WEIGHT AND BALANCE OF MODEL 206B

Weight and Balance information is as follows:

*** Vertical Fin Cap with LED Light Kit**

Weight (net)	Station	Lateral Arm
-1.00 lb	46.71 in	12.90 in
(-.45 kg)	(1186.43 mm)	(327.66 mm)

**** Vertical Fin Cap with LED Light Kit and OEM, Quartz Light on Belly**

Weight (net)	Station	Lateral Arm
.89 lb	278.49 in	4.10 in
(.40 kg)	(7073.65 mm)	(104.14 mm)

* Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light Power Supply (P/N A490A) removed from aircraft at (8PS1) STA 160.20 / (+) 10.00 B.L.

** Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light installed at STA 145.67 / (+) 3.00 B.L.

After installation is complete, the aircraft should be weighed in accordance with the applicable Maintenance Manual instructions and ballast adjusted as necessary to return the helicopter empty weight Center of Gravity to within allowable limits.

TABLE 3 - WEIGHT AND BALANCE OF MODEL 206 L SERIES

Weight and Balance information is as follows:

* **Vertical Fin Cap with LED Light Kit**

Weight (net)	Station	Lateral Arm
-1.00 lb	65.67 in	12.90 in
(-.45 kg)	(1668.72 mm)	(327.66 mm)

** **Vertical Fin Cap with LED Light Kit and OEM, Quartz Light on Belly**

Weight (net)	Station	Lateral Arm
.89 lb	310.17 in	4.10 in
(.40 kg)	(7878.32 mm)	(104.14 mm)

* Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light Power Supply (P/N A490A) removed from aircraft at (8PS1) STA 185.20 / (+) 10.00 B.L.

** Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.
- Net weight of LED light to OEM, quartz anti-collision light.
- OEM, quartz anti-collision light installed at STA 171.00 / (+) 3.00 B.L.

After installation is complete, the aircraft should be weighed in accordance with the applicable Maintenance Manual instructions and ballast adjusted as necessary to return the helicopter empty weight Center of Gravity to within allowable limits.

TABLE 4 - WEIGHT AND BALANCE OF MODEL 407 (S/N 53000 – 54299) (S/N 54300 – SUB)

Weight and Balance information is as follows:

*** Vertical Fin Cap Kit**

Weight (net)	Station	Lateral Arm
+ .40 lb	395.36	4.76
(+ .18 kg)	(10042.14 mm)	(120.90 mm)

**** Vertical Fin Cap with LED Light on Belly**

Weight (net)	Station	Lateral Arm
+ 1.00 lb	232.22 in	3.475 in
(+ .45 kg)	(5898.39 mm)	(88.27 mm)

* Based on:
- Net weight of Vertical Fin Cap to OEM Vertical Fin Fairing Assy.

** Based on:
- Net weight of LED light to OEM, anti-collision light.

After installation is complete, the aircraft should be weighed in accordance with the applicable Maintenance Manual instructions and ballast adjusted as necessary to return the helicopter empty weight Center of Gravity to within allowable limits.

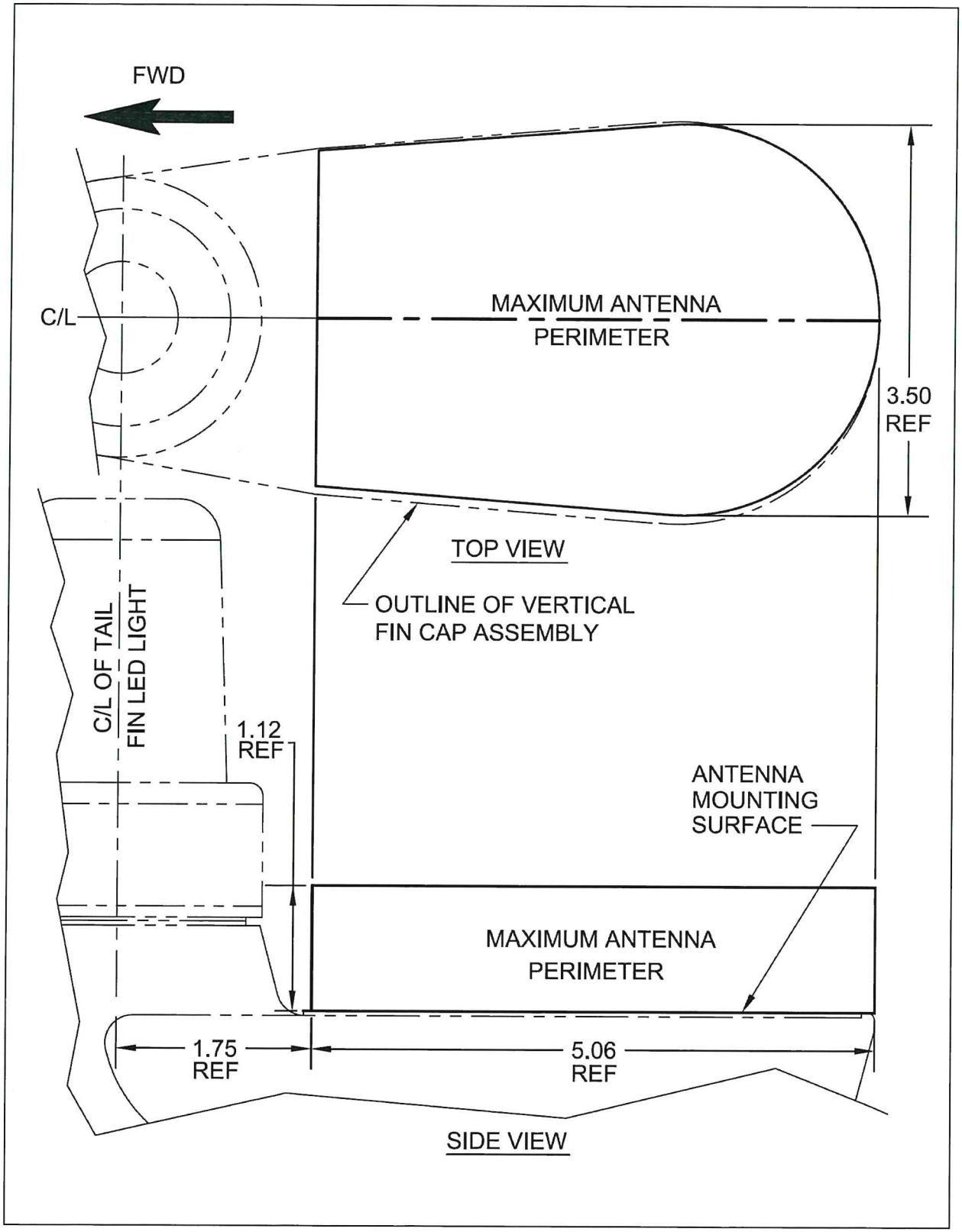

FIGURE 2 – MAXIMUM ANTENNA ENVELOPE
(SEE DRAWING 407-003, SHEET 11, FOR TEMPLATE)

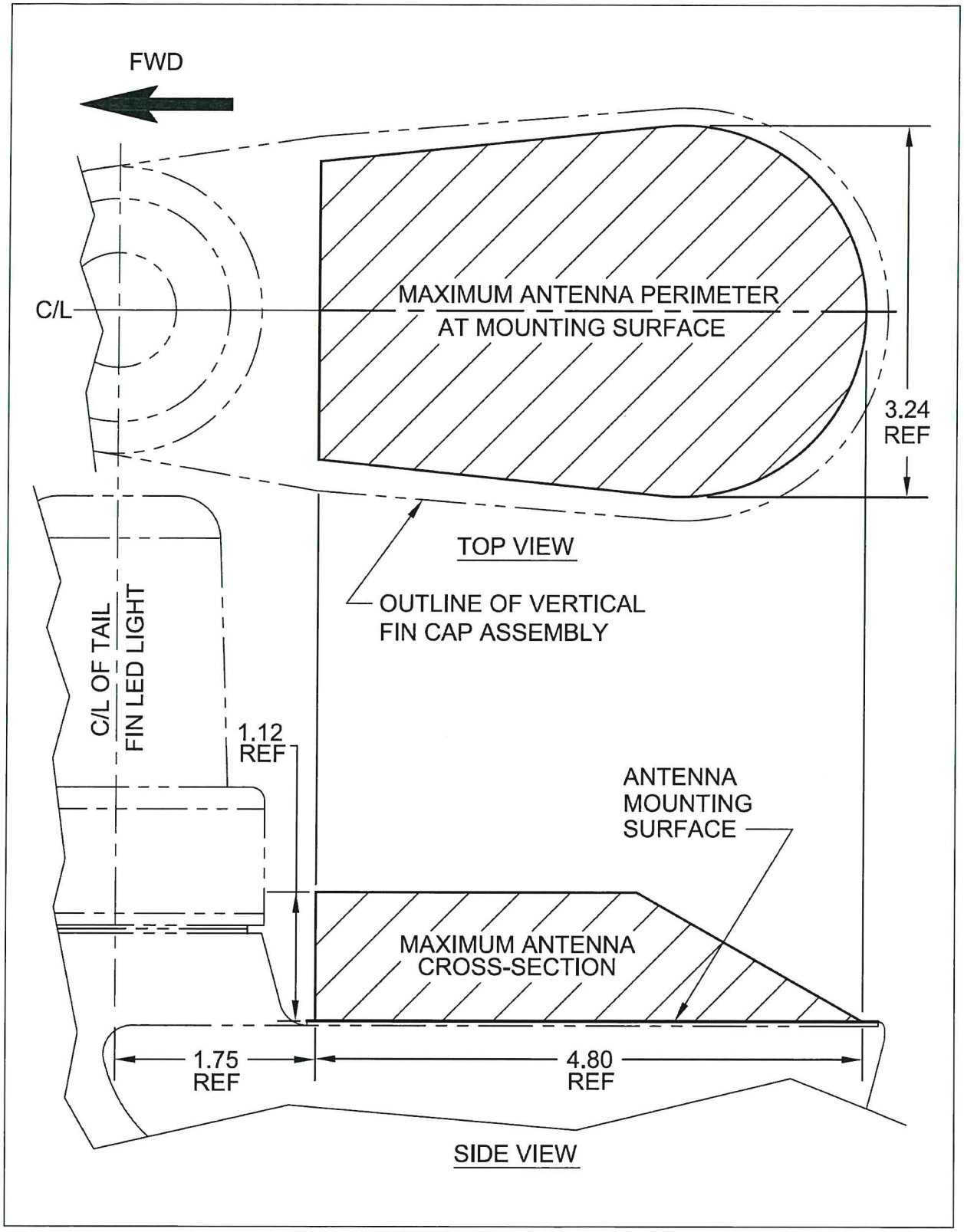

FIGURE 3 – MAXIMUM ANTENNA ENVELOPE NOT REQUIRING BELLY LIGHT (SEE DRAWING 407-003, SHEET 12, FOR TEMPLATE)

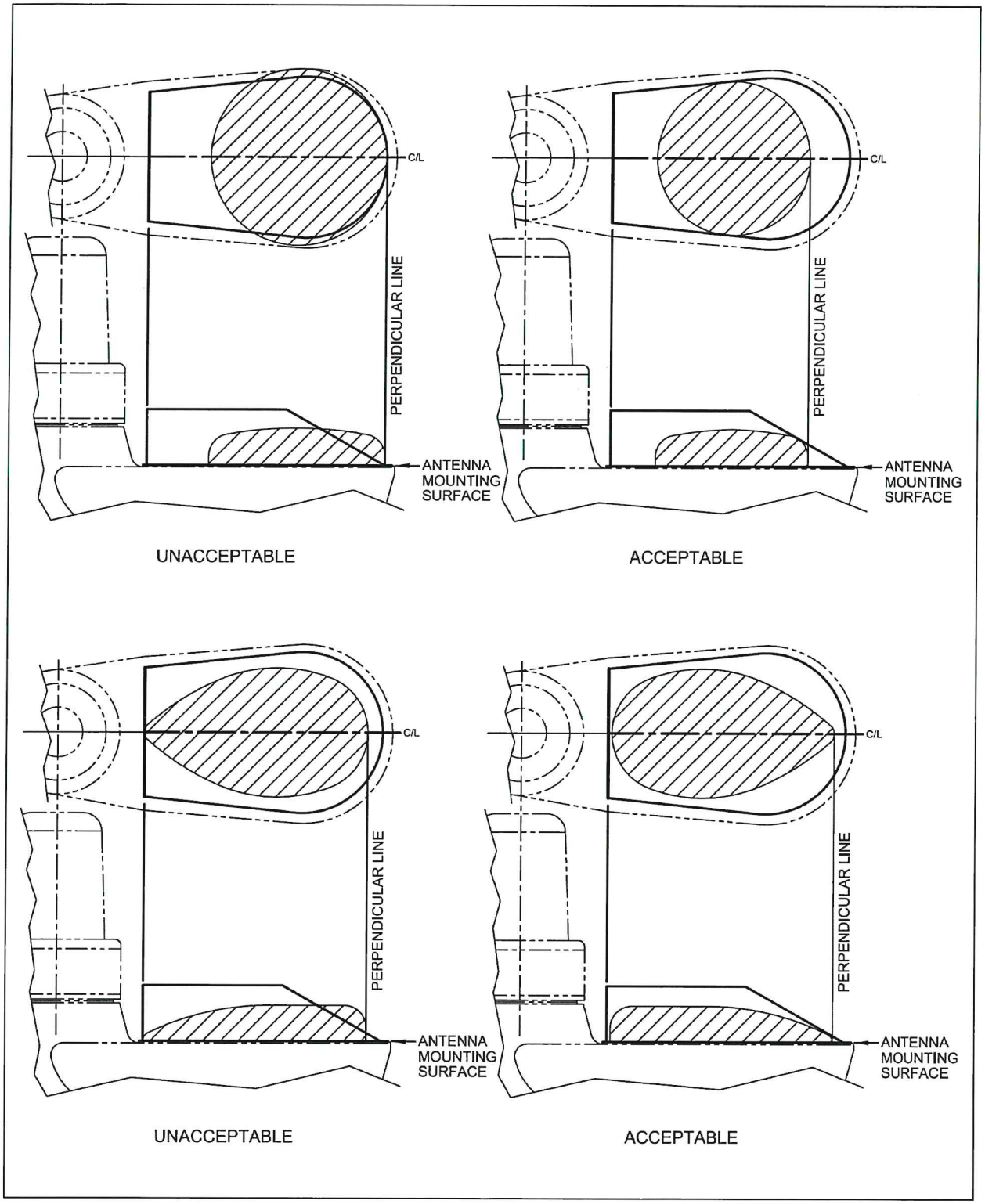

FIGURE 4 – EXAMPLES OF ANTENNA CONFIGURATIONS

TABLE 4

PARTS LIST

407-003-005 VERTICAL FIN CAP WITH LED LIGHT KIT
407-003-006 VERTICAL FIN CAP KIT
407-003-007 LED ANTI-COLLISION BELLY LIGHT KIT

	Qty -008	Qty -007	Qty -006	Qty -005	Part Number	Description
_____		1		1	407-003-051	Wiring Kit
_____		1		1	099-050-121	Adhesive (Magnobond 6398 A&B)
_____			2	2	099-050-222	Sealant (AMS-S-8802)
_____			1	1	407-002-101	Vertical Fin Cap Assembly
_____		1		1	407-002-127	Doubler
_____				3	60617-1	Contact (Socket)
_____				5	60618-1	Contact (Pin)
_____				4	140-001-3	Washer
_____	1	1		1	01-0771080-01	LED Anti-Collision Light
_____				1	1-480303-0	Connector
_____				1	1-480305-0	Connector
_____				1	AA-06109	Installation Instructions
_____				1	AA-06111	Instructions For Continued Airworthiness
_____	1	1		1	DCF-0090L	Arc Tube (Deci-Arc Series) (Alt. DCF-0230L)
_____	5 in	5 in		5 in.	M23053/5-204-C	Heat Shrink (Clear)
_____	1	1			M81714/65-22-2	Splice
_____	1	1			M39029/58-363	Pin
_____				1	M81824/1-3	Splice (Yellow)
_____	2	2			M83519/1-2	Splice
_____				1	M83519/1-5	Solder Sleeve
_____				4	MS20426AD5-9	Rivet
_____			16	16	MS20600AD4W2	Rivet
_____				4	MS20601AD5W6	Rivet
_____	4	4		4	MS21042-06	Nut
_____				1	MS24509-A-7-1/2	Circuit Breaker, 7.5 Amp
_____	1	1		3	MS25036-103	Terminal Ring
_____	4	4			MS24693-C32	Screw
_____				1	MS25274-2	Cap
_____				4	MS35206-231	Screw
_____	4	4		4	NAS1149DN632J	Washer

TABLE 5

PARTS LIST

407-003-051 WIRING KIT

	Qty -051	Part Number	Description
_____	1	L153A22N	WIRE, 22 AWG, (12 IN)
_____	1	L152A18	WIRE, 18 AWG, 3 COND, SHIELDED (25 FT)
_____	1	L20B22	WIRE, 22 AWG (12 IN)
_____	1	L20C22	WIRE, 22 AWG, 2 COND SHIELDED (25 FT)

TABLE 6

PARTS LIST

DOCUMENTATION REQUIRED

	Qty	Part Number	Description
_____	1	407-003	Vertical Fin Cap Installation

Confirm inventory prior to installation.

Packed by: _____ **/ / .**

United States of America
Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SR09533RC-D

This certificate issued to Bell Helicopter Textron, Inc.
441 Industrial Park Road
Piney Flats, TN 37686

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.

Original Product — Type Certificate Number: H28W

Make: Bell Helicopter Textron Canada Limited

Model: 407, 206B, 206L, 206L-1, 206L-3, 206L-4

Description of Type Design Change:
Installation of a Vertical Fin Cap with LED Light Kit in accordance with Master Drawing List AA-04133 Revision D dated August 5, 2010, or later FAA approved revision.

Instructions for Continued Airworthiness, AAI Report Number AA-06111, Rev. B dated January 15, 2010, or later FTW AEG accepted revision is required.

Limitations and Conditions:

(See continuation sheet 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: November 11, 2008

Date of issuance: May 13, 2009

Date reissued: February 9, 2011

Date amended: August 25, 2010

By direction of the Administrator

(Signature)

for James A. Richmond, Acting Manager
Rotorcraft Certification Office,
Southwest Region

(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number_____

to (*Name of transferee*) _____

(*Address of transferee*) _____
(*Number and street*)

_____
(*City, State, and ZIP code*)

from (*Name of grantor*) (*Print or type*) _____

(*Address of grantor*) _____
(*Number & street*)

_____
(*City, State, and ZIP code*)

Extent of Authority (if licensing agreement): _____

_____

_____

_____

Date of Transfer: _____

Signature of grantor (*In ink*): _____

United States of America
Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate
(Continuation Sheet)

Number SR09533RC-D
Date of Issuance: March 06, 2006
Date Amended: May 01, 2007
Date of Reissuance: February 9, 2011

Limitations and Conditions (Continued):
The Vertical Fin Cap with LED Light Kit is applicable for installation as a replacement for the factory installed Vertical Fin Fairing Assembly. The Kit also relocates the vertical fin quartz anti-collision light to the belly of the aircraft and installs a replacement LED anti-collision light on the fin. The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

Certification Basis:

Subpart B
27.29[14], 27.171[1], 27.251[1]

Subpart C
27.301[1], 27.303[1], 27.305(a)[1], 27.307(a)[26], 27.337(a)[26], 27.351[26], 27.571(a)(b)[26]

Subpart D
27.601(a)[1], 27.603(a)(b)(c)[16], 27.605(a)[16], 27.609(a)(b)[1], 27.610[21], 27.611(a)[1], 27.613(c)(d)[26], 27.619(a)(b)[1], 27.625(a)[35], 27.629[26], 27.773(a)(b)[1]

Subpart F
27.1301(a)(b)(c)(d)[1], 27.1309(a)(c)(d)[21], 27.1351(a)(b)(1)(i)[13], 27.1357(a)[13], 27.1365[1], 27.1367[1], 27.1401(a)(b)(c)(d)(e)(f)[10]

Subpart G
27.1525[21], 27.1529[18] Appendix A

ANAC

CERTIFICADO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO (Number) **2015S12-07**

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

é conferido ao (à): (is granted to:) Bell Helicopter Textron, Inc.
441 Industrial Park Road
Piney Flats, TN 37686
USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as specified hereon, met the applicable airworthiness requirements.)

Produto Original - Número do Certificado de Tipo: (Original Product – Type Certificate No:) * See attached ANAC Approved Model List (AML), Rev. I.R., dated 04 Dec. 2015, or later approved revisions.

Fabricante: (Manufacturer:) *.

Modelo(s): (Model(s):) *.

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:
(Description of Type Design Change:)

Installation of a Vertical Fin Cap with Led Light Kit in accordance with Master Drawing List, Document No. AA-04133, Rev. I, dated 28 July 2015, or later approved revisions.

This CST validates in Brazil the STC No. SR09533RC-D, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:
(Dates of:)

Do Requerimento: (Application:) 26 Oct. 2015 **Da emissão:** (Issuance:) 04 Dec. 2015 **Da reemissão:** (Reissuance:) **Da emenda:** (Amendment:)

MÁRIO IGAWA
Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

DINO ISHIKURA
Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)

ANAC

Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO SUPLEMENTAR DE TIPO
(Supplemental Type Certificate)

NÚMERO **2015S12-07**
(Number)

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

I. The approval of this type design change should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that rotorcraft.

II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

III. Instructions for Continued Airworthiness (ICA), Aeronautical Accessories Document No. AA-06111, Rev. C, dated 11 Oct. 2010, or later FAA accepted revisions, are required for this installation.

IV. The Vertical Fin Cap with Led Light Kit is applicable for installation as a replacement for the factory installed vertical Fin Faairing Assembly. The Kit also relocates the vertical fin quartz anti-collision light to the belly of the aircraft and installs a replacement LED anti-collision light on the fin.

V. The Certification Basis for parts changed or affected by this change, as specified on the FAA STC # SR09533RC-D Is applicable.

VI. A copy of this Certificate shall be maintained as part of the permanent records of the modified rotorcraft.

---------- -END ----------

ANAC
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL

ANAC APPROVED MODEL LIST (AML)
FOR CST 2015S12-07

ITEM	ROTORCRAFT MAKE	ROTORCRAFT MODEL (S)	TYPE CERTIFICATE NUMBER
1	Bell Helicopter Textron Canada Limited	206B, 206L-1, 206L-3, 206L-4	H-92 (TCCA)
2	Bell Helicopter Textron Canada Limited	407	9603 (ANAC)

ANAC Approved: _____

MÁRIO IGAWA
Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

ANAC Approved Date: 04 Dec. 2015

Revision: I.R.

Transport Canada Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:

Bell Helicopter Textron, Inc.
441 Industrial Park Rd.
Piney Flats, Tennessee
United States of America 37686

Number: SH15-32
Issue No.: 1
Approval Date: June 29, 2015
Issue Date: June 29, 2015

Responsible Office:	Pacific
Aircraft/Engine Type or Model:	Bell 206B, 206L, 206L-1, 206L-3, 206L-4, 407
Canadian Type Certificate or Equivalent:	H-92
Description of Type Design Change:	Installation of a Vertical Fin Cap with LED Light Kit in accordance with FAA STC SR09533RC-D

Installation/Operating Data, Required Equipment and Limitations:

Installation of the Vertical Fin Cap with LED Light Kit must be in accordance with Bell Helicopter Textron, Inc. Drawing List AA-04133 Revision H, dated October 15, 2013 or later FAA approved revision.

Maintenance of the Vertical Fin Cap with LED Light Kit must be in accordance with Aeronautical Accessories, Inc. Instructions for Continued Airworthiness AA-06111 Revision C dated October 11, 2010 or later FAA accepted revision.

Certification Basis:
27.29[14], 27.171[1], 27.251[1], 27.301[1], 27.303[1], 27.305(a)[1], 27.307(a)[26], 27.337(a)[26], 27.351[26], 27.571(a)(b)[26] 27.601(a)[1], 27.603(a)(b)(c)[16], 27.605(a)[16], 27.609(a)(b)[1], 27.610[21], 27.611(a)[1], 27.613(c)(d)[26], 27.619(a)(b)[1], 27.625(a)[35], 27.629[26], 27.773(a)(b)[1] 27.1301(a)(b)(c)(d)[1], 27.1309(a)(c)(d)[21], 27.1351(a)(b)(1)(i)[13], 27.1357(a)[13], 27.1365[1], 27.1367[1], 27.1401(a)(b)(c)(d)(e)(f)[10], 27.1525[21], 27.1529[18] Appendix A

— End —

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

Curtis Mah
For Minister of Transport

Canada

中国民用航空局

CIVIL AVIATION ADMINISTRATION OF CHINA

补充型号认可证

VALIDATION OF SUPPLEMENTAL TYPE CERTIFICATE

编号/NO. VSTC0777

本证颁发给/*This Certificate is issued to* Bell Helicopter Textron,Inc.

适用机型/*Applicable Aircraft Model*:

Bell 206B,Bell 206L-4,Bell 407

叙述/*Description*:

Installation of a Vertical Fin Cap with LED Light Kit in accordance with Master Drawing List AA-04133 Revision D dated August 5, 2010, or later FAA approved revision.Instructions for Continued Airworthiness, AAI Report Number AA-06111, Rev. B dated January 15, 2010, or later FTW AEG accepted revision is required.

使用限制/*Limitation*:

See "Limitations and Conditions" of STC SR09533RC-D issued by FAA.
Approved Chinese Marking and Placard:N/A

经中国民用航空局审查确认,上述民用航空产品的设计更改符合中国民用航空规章的有关规定。中国民用航空局对由 美国联邦航空局 颁发的第 SR09533RC-D 号补充型号合格证给予认可。

This certifies that the design change of above civil aeronautical product meets applicable China Civil Aviation Regulations. Civil Aviation Administration of China validates the Supplemental Type Certificate No. SR09533RC-D *issued by* FAA.

局长授权:

For the Administrator of CAAC:

签字/*Signature*

Yang Zhenmei

职务/*Title* Deputy Director General

部门/*Department* CAAC-AAD

日期/*Date* 2017-02-07

European Aviation Safety Agency

SUPPLEMENTAL TYPE CERTIFICATE

10027913, REV. 1

This Supplemental Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EC) No. 1702/2003 to

AERONAUTICAL ACCESSORIES, INC.
441 INDUSTRIAL PARK ROAD
PINEY FLATS TN 37686
USA

and certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified below:

Original Product TC Number:	**TCCA TCDS H92**
TC Holder:	**BELL HELICOPTER**
Model:	**BELL 407**
Original STC Number:	**FAA STC SR09533RC-D**

EASA Certification Basis:
The Certification Basis for the original product remains applicable to this certificate/ approval
The certificated noise and/ or emissions levels of the original product are unchanged and remain applicable to this certificate/ approval

Description of Design Change:
Vertical Fin Cap with LED Light Kit

Associated Technical Documentation:
AA-04133 revision A dated 18 February 2009 - Drawing List, Vertical Fin Cap with LED Light Kit;
AA-97130 revision F dated 16 April 2008 - Installation Instructions for Expanded Instrument panel;
AA-06111 no revision dated 23 February 2009 - Instructions for Continued Airworthiness Vertical Fin Cap with LED Light Kit
or later revisions of the above listed documents approved by EASA in accordance with EASA ED Decision 2004/04/CF (or subsequent revisions of this decision)

Limitations:
None

See Continuation Sheet(s)

For the European Aviation Safety Agency,

Date of Issue: 01.12.2009

Massimo MAZZOLETTI
Certification Manager
Rotorcraft, Balloons, Airships

Note:
The following numbers are listed on the certificate:
EASA current Project Number: 0010001827-001

Conditions:
The Vertical Fin Cap with LED Light Kit is applicable for installation as a replacement for the factory installed Vertical Fin Fairing Assembly. The kit also relocates the vertical fin quartz anti-collision light to the belly of the aircraft and installs a replacement LED anti-collision light on the fin.
If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

Prior to installation of this modification it must be determined that the interrelationship between this modification and any other previously installed modification and/ or repair will introduce no adverse effect upon the airworthiness of the product

This Certificate shall remain valid unless otherwise surrendered or revoked.

- end -

Note:
The following numbers are listed on the certificate:
EASA current Project Number: 0010001827-001

SUPPLEMENTAL TYPE CERTIFICATE - 10027913, REV. 1 - AERONAUTICAL ACCESSORIES, INC.

GOVERNMENT OF INDIA
OFFICE OF THE
DIRECTOR GENERAL OF CIVIL AVIATION
OPP. SAFDARJUNG AIRPORT,
NEW DELHI – 110 003
Aircraft Engineering Directorate

Telephone/ दूरभाष : 2462 2500
Extn.:207
E-mail/ ई-मेल : kaushik.dgca@nic.in

सत्यमेव जयते

भारत सरकार
महानिदेशक नागर विमानन
का कार्यालय
सफदरजंग एरपोर्ट के सामने
नई दिल्ली – ११० ००३
विमान अभियांत्रिकी निदेशालय

Reference No./ संख्या : IN23ASA054
Dated/ दिनांक : 8th June 2023

M/S Bell Textron Inc.,
441 Industrial Park Road, Piney Flats,
TN, 37686, United States of America

(Kind Attention: Mr. Matthew Tester)

Subject: Letter of Type acceptance for FAA STC No. SR09533RC-D for installation of a Vertical Fin Cap with LED Light Kit on Bell 206L-3 Helicopter

Ref.: e-Application Id: STC/Bell Textron Inc./Bell 206L-3/2023/000224

Sir/Madam,

Reference may please be made to above referred application submitted by M/s Bell Textron Inc. on the subject matter. Your application for acceptance of FAA STC No. SR09533RC-D for installation of a Vertical Fin Cap with LED Light Kit on Bell 206L-3 Helicopter has been examined as per CAR Section 6, Series A, Part II and is found satisfactory.

Based on the information and certification documents provided, it is stated that the installation of a Vertical Fin Cap with LED Light Kit on Bell 206L-3 Helicopter, certified vide FAA STC No. SR09533RC-D dated 09.02.2011 is considered acceptable to DGCA from design view point subject to the following conditions:

1. The helicopter must conform to the type design change data as described in the STC with configuration specified above.
2. Limitations, conditions and procedures prescribed in the STC, approved manuals and applicable supplements shall be strictly adhered to.
3. The helicopter shall be fitted with mandatory instrument and equipment as per applicable regulations issued by DGCA, India, if required, as a result of this installation (available on website www.dgca.gov.in).

This letter of Supplemental Type Certificate acceptance for subject helicopter model is issued under the provision of Rule 49G of the Aircraft Rules, 1937 with the approval of the competent authority and shall remain in force until cancelled, superseded or revoked by the DGCA, India.

(Kaushik Mukhopadhyay)
Dy. Director(AE)
For Director General of Civil Aviation

Copy to:

1. DAW, DGCA Head Quarters, New Delhi – 110003,
2. FAA, Compliance & Airworthiness Division, Aircraft Certification Service, DSCO Branch 10101 Hillwood Parkway Fort Worth, TX 76177 (Kind Attn: Mr. Kuethe Harmon).
3. M/s Malhotra Helikopters Pvt. Ltd., 2, Pitamajali, Ground Floor, 11 Baptista Road, Vile Parle(W), Mumbai, India-400 056. (Kind Attn: Mr. Naveen K Singh- C.A. Manager)

(Kaushik Mukhopadhyay)
Dy. Director(AE)
For Director General of Civil Aviation

Yours faithfully,
Kaushik Mukhopadhyay
Deputy Director (Aircraft Engineering Directorate)
for Director General of Civil Aviation

Government of India
Civil Aviation Department
Office Of The
Directorate General of Civil Aviation
Aircraft Engineering Directorate
Opposite Safdarjung Airport
New Delhi – 110 003

Phone:-91-011-2462 3211
E mail: amit.dgca@nic.in

भारत सरकार
नागर विमानन विभाग
महानिदेशक नागर विमानन का कार्यालय
सफदरजंग एयरपोर्ट के सामने
नई दिल्ली - ११० ००३

Reference No.: संख्या : **07-47/2018-AED**

Dated: दिनांक : 30/10/2018

Bell Helicopter Textron Inc,
441 Industrial Park Road,
Piney Flats, TN 37686,USA.

(Kind Attn: Mr. Joyce Estep, Manager)

Sub: Type Acceptance of FAA Supplemental Type Certificate SR09533RC-D for installation of vertical Fin Cap with LED light Kit on Bell helicopter Model 206L-4.

References:

I. FAA letter dated 23.08.2018.
II. Letter of Intent from Indian operator M/s Dhillon Aviation Pvt Ltd letter dated 22.05.2018.

Sir,

Reference may please be made to the above referred letters and subsequent correspondence this office had on the subject matter.

The certification documents pertaining to installation of vertical Fin Cap with LED light Kit on Bell Helicopters Model 206L-4 have been examined and are considered satisfactory. Based on the information, documents and clarification provided, it is stated that the modification of vertical Fin Cap with LED light Kit installation certified vide FAA STC SR09533RC-D dated 09/02/2011 on Bell Helicopters Model 206L-4 is considered acceptable to DGCA from design view point subject to the following conditions;

1. The installation must conform to type design change data as specified in the FAA STC mentioned above.

2. Limitations, conditions and procedures specified in the STC, approved RFM shall be strictly adhered to;

3. The Indian operator shall provide to AED quarterly feedback/data on the vertical Fin Cap with LED light Kit installation pertaining to all faults/malfunctions/service difficulties/repairs/part replacements, etc.

4. Indian operator/STC holder shall arrange familiarisation program to AED officials of adequate duration i.a.w. relevant regulation/CAR.

This letter of STC acceptance is issued under the provisions of Rule 49G of the Aircraft Rules 1937 with the approval of the competent authority and shall remain in force until cancelled, superseded or revoked by the DGCA, India

Yours faithfully

Amit Gupta 30/10/18.

(Amit Gupta)
Director (AED)
for Director General of Civil Aviation

Copy to:

1. DAW, DGCA Head Quarters, New Delhi – 110003.

2. FAA, DSCO Branch, Airworthiness & Compliance Division, Aircraft Certification Service, 10101 Hillwood Parkway, Fort Worth, TX 76177.
(Kind Attn: Mr. S, Frances Cox, Manager, DSCO Branch)

3. M/s Dhillon Aviation Pvt Ltd. A-883/C, Sushant Lok-I, Gurgaon-122001.
(Kind Attn: Jaymalya Sengupta, Quality Manager).

File No.DGCA-27014/5/2021-AED-DGCA

GOVERNMENT OF INDIA
OFFICE OF THE
DIRECTOR GENERAL OF CIVIL
AVIATION
OPP. SAFDARJUNG AIRPORT,
NEW DELHI – 110 003

भारत सरकार
महानिदेशक नागर विमानन
का कार्यालय
सफदरजंग एरपोर्ट के सामने
नई दिल्ली – ११० ००३

Aircraft Engineering Directorate

विमान अभियांत्रिकी निदेशालय

Telephone/ दूरभाष: 91-011-2462 3211
E-mail/ई-मेल: kaushik.dgca@nic.in

Reference No./ संख्या: DGCA-27014/5/2021-AED
Dated/ दिनांक: 18th Feb, 2021

To,

M/s Bell Textron Inc.,
441 Industrial Park Road,
Piney Flats, TN 37686.

Subject: **Acceptance of FAA Supplemental Type Certificate STC (SR09533RC-D) for installation of a Vertical Fin Cap Kit with LED Light Kit on Bell 407 Helicopter.**

Reference: (1) M/s FAA letter no. 30/09/2020;
(2) M/s Bell Textron Inc. application dated 23/09/2020;
(3) Email correspondences.

Sir,

Reference may please be made to the points under reference (l) thru' (3) on the above subject.

Your application for acceptance of FAA Supplemental Type Certificate (STC) SR09533RC-D dated 09/02/2011 for installation of a Vertical Fin Cap Kit with LED Light Kit on Bell 407 Helicopter has been examined as per CAR Section 6, Series A, Part II and AED Handbook of Procedures Part 8 and is found to be in order.

Based on the certification documents submitted, it is stated that installation of a Vertical Fin Cap Kit with LED Light Kit on Bell 407 Helicopter certified vide FAA Supplemental Type Certificate (STC) SR09533RC-D dated 09/02/2011 is considered acceptable to DGCA from design point of view subject to the following conditions:

1. The installation must conform to the type design change data as specified in the FAA STC mentioned above;
2. Limitations, conditions and procedures specified in the STC & in approved RFMS shall be strictly adhered to;
3. The aircraft shall be fitted with mandatory instruments and equipment as per applicable Civil Aviation Requirements (CARs) of DGCA, India that are available on website www.dgca.gov.in, if required as a result of this design change.

This letter of STC acceptance is issued under the provisions of Rule 49G of The Aircraft Rules, 1937 with the approval of the competent authority and shall remain in force until cancelled, superseded or revoked by the DGCA, India.

Yours faithfully

(Kaushik Mukhopadhyay)
Deputy Director (AED)
For Director General of Civil Aviation

Copy to:

1. DAW, DGCA Head Quarters, New Delhi – 110 003. With a request to provide feedback/data to AED, pertaining to faults/malfunctions/service difficulties experienced by any Indian operator after incorporation of the said STC on Bell 407.
2. FAA, DSCO Branch, Airworthiness & Compliance Division, Aircraft Certification Service.
(Kind Attn: Mr. S. Frances Cox, Manager, DSCO Branch)
3. M/s Arrow Aircraft Sales & Charters Pvt. Ltd., Prime Towers, Room No. DPT-816, 8th Floor, Plot No. F-79-80, Okhla Industrial Area, Phase-1, New Delhi-110020.[Kind Attn. Mr. Shailendra Pratap Singh, Accountable Manager)