

TITLE

LIGHTS - LED ANTI-COLLISION LIGHT INSTALLATION

EFFECTIVITY

MODEL	SERIAL NUMBERS
172R	17281201 thru 17281622
172S	172S09569 thru 172S12293
182T	18280945 thru 18283084
T182T	T18208001 thru T18209099
206H	20608174 thru 20608353
T206H	T20608362 thru T20609587

REASON

The power supply and the anti-collision (strobe) light assembly is no longer available. An LED anti-collision (strobe) light assembly with a built-in power supply is available as a replacement.

DESCRIPTION

This service document provides parts and instructions necessary to remove the power supply and anti-collision (strobe) light assembly and install a LED anti-collision (strobe) light assembly.

NOTE: The anti-collision (strobe) light power supply will be removed and the new LED anti-collision (strobe) light will connect to the same wires that the power supply connected to. If desired, it is acceptable to replace the anti-collision (strobe) light and power supply on only one wing.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

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Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

APPROVAL

Textron Aviation received FAA approval for the technical data in this publication that changes the airplane type design.

FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

TOOLING

No specialized tooling is required to complete this service document.

WEIGHT AND BALANCE INFORMATION

NOTE: The weight and balance information section provides data for a single light installation, if both lights are replaced, the weights and moments must be doubled.

MODEL	All models
WEIGHT CHANGE	- 2.4 pounds
RESULTANT MOMENT	- 103.1 inch-pounds
MOMENT/100	- 1 inch-pounds

REFERENCES

Cessna Model 172 (Series 1996 And On) Maintenance Manual

Cessna Model 182 (Series 1996 And On) Maintenance Manual

Cessna Model 206 (Series 1996 And On) Maintenance Manual

Cessna Model 172 (Series 1996 And On) Wiring Diagram Manual

Cessna Model 182 (Series 1996 And On) Wiring Diagram Manual

Cessna Model 206 (Series 1996 And On) Wiring Diagram Manual

NOTE: To make sure all publications used are complete and current. Refer to www.txtavsupport.com.

PUBLICATIONS AFFECTED

Cessna Model 172 (Series 1996 And On) Maintenance Manual

Cessna Model 182 (Series 1996 And On) Maintenance Manual

Cessna Model 206 (Series 1996 And On) Maintenance Manual

Cessna Model 172 (Series 1996 And On) Wiring Diagram Manual

Cessna Model 182 (Series 1996 And On) Wiring Diagram Manual

Cessna Model 206 (Series 1996 And On) Wiring Diagram Manual

Cessna Model 172 (Series 1996 And On) Illustrated Parts Catalog

Cessna Model 182 (Series 1996 And On) Illustrated Parts Catalog

Cessna Model 206 (Series 1996 And On) Illustrated Parts Catalog

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Disconnect external electrical power.
 - D. Pull the STROBE LTS circuit breaker.
 - E. Attach maintenance warning tag to the circuit breaker that has **"DO NOT PUSH IN CIRCUIT BREAKER - MAINTENANCE IN PROGRESS"** written on it.

NOTE: Use the references that follow for the removal and installation procedures.

Model 172 (Series 1996 And On)

- Maintenance Manual, Chapter 57, (57-10-00), Wings and Wing Struts - Maintenance Practices
- Maintenance Manual, Chapter 33, (33-40-00), Navigation and Strobe Lights - Maintenance Practices
- Wiring Diagram Manual, Chapter 33, (33-40-02), Figure 01 thru Figure 05, Strobe Lights

Model 182 (Series 1996 And On)

- Maintenance Manual, Chapter 57, (57-10-00), Wings and Wing Struts - Maintenance Practices
- Maintenance Manual, Chapter 33, (33-40-00), Navigation and Strobe Lights - Maintenance Practices
- Wiring Diagram Manual, Chapter 33, (33-40-02), Figure 01 thru Figure 05, Wing Tip Strobe Lights

Model 206 (Series 1996 And On)

- Maintenance Manual, Chapter 57, (57-10-00), Wings and Wing Struts - Maintenance Practices
- Maintenance Manual, Chapter 33, (33-40-00), Navigation and Strobe Lights - Maintenance Practices
- Wiring Diagram Manual, Chapter 33, (33-40-02), Figure 01 thru Figure 04, Strobe Lights

2. Remove and discard the left or right 01-0770006-12/01-0770006-17 Power Supply, 01-0770818-00 Anti-Collision (Strobe) Light, and wiring as follows:

NOTE: The anti-collision (strobe) light power supply will be removed and the new LED anti-collision (strobe) light wire connector will plug directly into the connector previously used by the power supply.

- A. Right 01-0770006-17 Power Supply, 01-0770818-00 Anti-Collision (Strobe) Light and wiring:

- (1) Remove the right tip.

NOTE: When removing the anti-collision (strobe) light, keep the screws and discard the washers and nuts.

- (2) Disconnect the power supply connector PR004 from connector JR004.
- (3) Disconnect the ground wire from ground stud GR002.
- (4) Remove and discard the Right 01-0770006-17 Power Supply, 01-0770818-00 Anti-Collision (Strobe) Light, wiring with connectors PR004, J1, and P1.

- B. Left 01-0770006-17 Power Supply, 01-0770818-00 Anti-Collision (Strobe) Light and wiring:
- (1) Remove the wing tip.
NOTE: When removing the anti-collision (strobe) light, keep the screws and discard the washers and nuts.
 - (2) Disconnect the power supply connector PL005 from connector JL005.
 - (3) Disconnect the ground wire from ground stud GL001 or ground terminal block AL001.
 - (4) Remove and discard the Left 01-0770006-17 Power Supply, 01-0770818-00 Anti-Collision (Strobe) Light, wiring with connectors PL005, J1, and P1.
3. Install the left or right 01-0771994-00 LED Anti-Collision (Strobe) Light as follows:
- NOTE:** The new LED anti-collision (strobe) light wire connector will plug directly into the connector previously used by the power supply.
- A. Right 01-0771994-00 LED Anti-Collision (Strobe) Light and wiring:
- (1) Remove the two screws from the new anti-collision (strobe) light and discard.
NOTE: The LED anti-collision (strobe) light will have a metal doubler. Keep the doubler in place since it will be installed inside the wing-tip with the light. The screws from the removed anti-collision (strobe) light will be used to install the new assembly.
 - (2) Put the anti-collision (strobe) light into position with the doubler inside the wing-tip.
NOTE: The light assembly has a label stating "This Side Up For Installation". Position the light so the label will be up when the wing-tip is installed on the airplane.
 - (3) Put the shield into position and secure the assembly with the kept screws.
 - (4) Stow the anti-collision (strobe) sync yellow wire (SYNC) and connector.
 - (5) Connect the anti-collision (strobe) light white wire (+28VDC) connector to connector JR004.
 - (6) Connect the anti-collision (strobe) light black wire (GND) ground ring terminal to ground stud GR002.
 - (7) Install the wing tip.
- B. Left 01-0771994-00 LED Anti-Collision (Strobe) Light and wiring:
- (1) Remove the two screws from the new anti-collision (strobe) light and discard.
NOTE: The LED anti-collision (strobe) light will have a metal doubler. Keep the doubler in place since it will be installed inside the wing-tip with the light. The screws from the removed anti-collision (strobe) light will be used to install the new assembly.
 - (2) Put the anti-collision (strobe) light into position with the doubler inside the wing-tip.
NOTE: The light assembly has a label stating "This Side Up For Installation". Position the light so the label will be up when the wing-tip is installed on the airplane.
 - (3) Put the shield into position and secure the assembly with the kept screws.
 - (4) Stow the anti-collision (strobe) sync yellow wire (SYNC) and connector.
 - (5) Connect the anti-collision (strobe) light white wire (+28VDC) connector to connector JL005.
 - (6) Connect the anti-collision (strobe) light black wire (GND) ground ring terminal (supplied with light) to ground stud GL001 in the aircraft or remove the ring terminal and connect the black wire to ground terminal block AL001.
 - (7) Install the wing tip.
4. Remove the maintenance warning tag and push in the STROBE LTS circuit breaker.

5. Do an operational check of the anti-collision (strobe) light.
 - A. Put the MASTER (BAT) switch to the ON position.
 - B. Put the LIGHTS STROBE/OFF switch to the STROBE position.
 - C. Make sure the strobe lights come on and flash.
 - D. Put the LIGHTS STROBE/OFF switch to the OFF position.
 - E. Make sure the strobe lights turn off.
 - F. Put the MASTER (BAT) switch to the OFF position.
6. Update the airplane weight and balance. (Refer to the Weight and Balance Information in this service document.)

NOTE: The weight and balance information section provides data for a single light installation, if both lights are replaced, the weights and moments must be doubled.
7. Make an entry in the airplane logbook that states which anti-collision (strobe) light was replaced (Left and/or Right), the compliance and method of compliance with this service document.

MATERIAL INFORMATION

Order the part below for each anti-collision (strobe) light assembly to be replaced.

NEW P/N	QUANTITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
01-0771994-00	1	LED Anti-Collision Light Assembly	01-0770818-00, and 01-0770006-12, or 01-0770006-17	Discard Old Anti-Collision and Power Supply, Install New LED Anti-Collision Assembly

NOTE: The 01-0770818-00 anti-collision (strobe) light assembly will include either a 01-0770006-12, or 01-0770006-17 Power Supply.

* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in this service document.

TITLE

LIGHTS - LED ANTI-COLLISION LIGHT INSTALLATION

TO:

Cessna Aircraft Model 172R, 172S, 182T, T182, 206H, T206H Owner

REASON

The power supply and the anti-collision (strobe) light assembly is no longer available. An LED anti-collision (strobe) light assembly with a built-in power supply is available as a replacement.

NOTE: The anti-collision (strobe) light power supply will be removed and the new LED anti-collision (strobe) light will connect to the same wires that the power supply connected to. If desired, it is acceptable to replace the anti-collision (strobe) light and power supply on only one wing.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

LABOR HOURS**WORK PHASE**

Modification

LABOR-HOURS

As Required

MATERIAL AVAILABILITY**PART NUMBER**

01-0771994-00

AVAILABILITY

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COST

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* Please contact a Textron Aviation Authorized Service Facility for current cost and availability of parts listed in this service document.

WARRANTY

None

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.txtavsupport.com to register.

