

**TITLE**

LIGHTS - LED NAVIGATION AND ANTI-COLLISION LIGHT ASSEMBLIES INSTALLATION

**EFFECTIVITY****Group A Airplanes****MODEL****SERIAL NUMBERS**

208

20800001 thru 20800499

208B

208B0001 thru 208B1999

**Group B Airplanes****MODEL****SERIAL NUMBERS**

208

20800500 thru 20800523

208B

208B2000 thru 208B2220

**Group C Airplanes****MODEL****SERIAL NUMBERS**

208

20800524 thru 20800663

208B

208B2221 thru 208B4999

**REASON**

The incandescent style navigation and anti-collision light assemblies are no longer available. LED style navigation anti-collision light assemblies are available as replacement.

**DESCRIPTION**

This service document provides parts and instructions necessary to replace the incandescent navigation and anti-collision light assemblies with LED light assemblies.

**COMPLIANCE**

OPTIONAL. This service bulletin 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.

March 9, 2020

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Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

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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

You must use the consumable materials that follow, or their equivalent, to complete this service document.

NAME	NUMBER	MANUFACTURER	USE
Color Chemical Film Treatment	1445846 (Alodine 1132 Touch n Prep Pen)	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To apply protection to bare aluminum spacer.
Sealant	U470545 Type XIV, Class B (2.5 ounce Simkit)	Textron Aviation Parts Distribution	To seal the light assembly.
AC-350	Type XIV, Class B	Commercially Available	To seal the light assembly.
WS-8020RC	Type XIV, Class B	Commercially Available	To seal the light assembly.
Isopropyl Alcohol	TT-I-735	Commercially Available	Type I Cleaning Solvent for surface cleaning prior to protective coating.

#### TOOLING

No specialized tooling is required to complete this service document.

#### WEIGHT AND BALANCE INFORMATION

Negligible

#### REFERENCES

Cessna Model 208/208B Maintenance Manual

Cessna Model 208/208B Wiring Diagram Manual

#### PUBLICATIONS AFFECTED

Cessna Model 208 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 electrical power from the airplane.
    - (1) Disconnect external electrical power.
    - (2) Disconnect the airplane battery.

- D. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
2. Remove the stinger. (Refer to the Model 208/208B Maintenance Manual, Chapter 53, Tail Stinger - Maintenance Practices.)
3. Remove and discard the stinger navigation light assembly. (Refer to the Model 208/208B Maintenance Manual, Chapter 33, Incandescent Navigation Lights - Maintenance Practices.)
- A. Bag and stow the stinger navigation light electrical connector (PT001 or J105).
- NOTE:** The stinger navigation light position will not be used. The wing tip navigation and anti-collision light assemblies have an aft facing navigation light.
4. Install 2612115-3 Cover Plate with two S1021Z6-6 Screws and S3231-5 Nuts.
5. Install the stinger. (Refer to the Model 208/208B Maintenance Manual, Chapter 53, Tail Stinger - Maintenance Practices.)
6. Remove and discard the left and right navigation, anti-collision light assemblies. (Refer to the Model 208/208B Maintenance Manual, Chapter 33, Incandescent Navigation Lights - Maintenance Practices, and Incandescent Navigation and Anti-Collision Strobe Lights - Maintenance Practices.)
7. **Group A Airplanes:** (Refer to Figure 1, Sheet 1, and Sheet 2.) Complete the wing tip wiring modification as follows:
- A. (Refer to Figure 1, Sheet 1.) Depin the wires from the S1638-2 Connectors and discard connectors P110 (Right) and P111 (Left).
- B. Connect the wires that were depinned to the new connectors supplied with the new NAV/Anti-Collision light assemblies.
- C. Install one S4111-2A Namplate marked PL012 on the wire assembly for the left Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
- D. Install one S4111-2A Namplate marked PR012 on the wire assembly for the right Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
- E. Go to Step 11.
8. **Group B Airplanes:** (Refer to Figure 2, Sheet 1, and Sheet 2.) Complete the wing tip wiring modification as follows:
- A. (Refer to Figure 2, Sheet 1.) Depin the wires from the S1638-2 Connectors and discard connectors PR003 (Right) and PL003 (Left).
- B. Connect the wires that were depinned to the new connectors supplied with the new NAV/Anti-Collision light assemblies.
- C. Install one S4111-2A Namplate marked PL012 on the wire assembly for the left Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
- D. Install one S4111-2A Namplate marked PR012 on the wire assembly for the right Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
- E. Go to Step 10.
9. **Group C Airplanes:** (Refer to Figure 3, Sheet 1, and Sheet 2.) Complete the wing tip wiring modification as follows:
- A. (Refer to Figure 3, Sheet 1.) Depin the wires from the S1638-2 Connectors and discard connectors PR003 (Right) and PL003 (Left).
- B. (Refer to Figure 3, Sheet 1.) Disconnect the shield ground from the depinned wires at PR003 (Right) and PL003 (Left).

**NOTE:** The shield ground will not be connected to the new light assemblies.

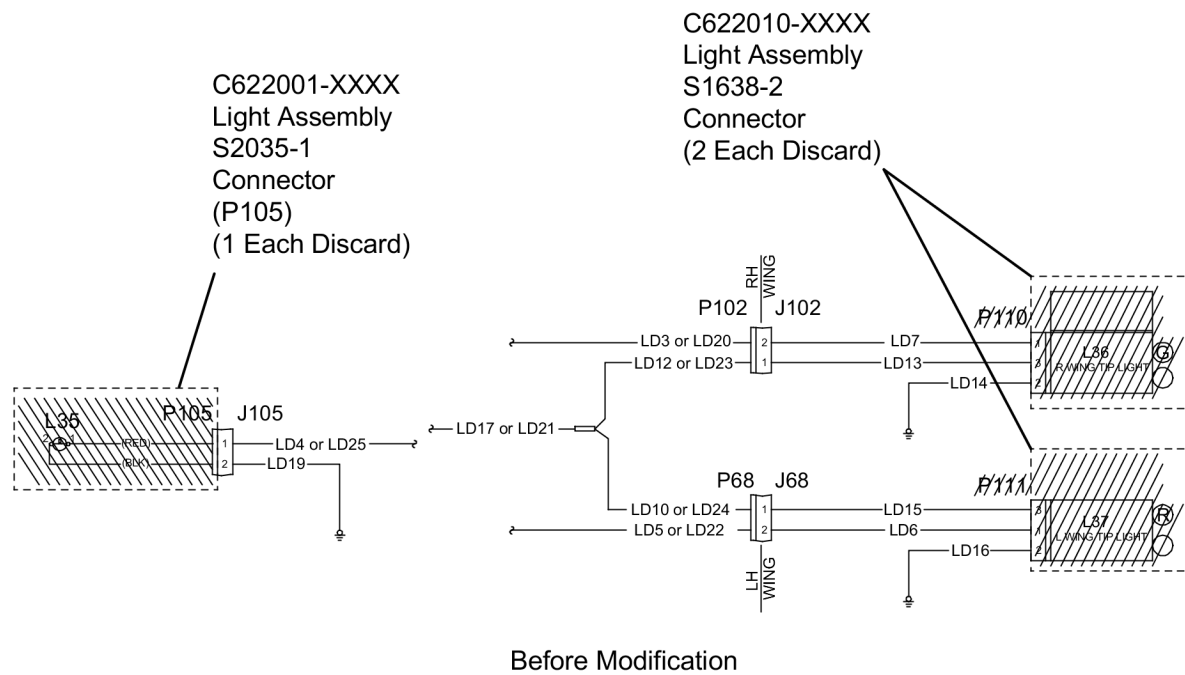
- C. (Refer to Figure 3, Sheet 2.) Install a TC4001 Cap on the end of the two disconnected shield grounds.
  - D. Connect the wires that were depinned to the new connectors supplied with the new NAV/Anti-Collision light assemblies.
  - E. Install one S4111-2A Namplate marked PL012 on the wire assembly for the left Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
  - F. Install one S4111-2A Namplate marked PR012 on the wire assembly for the right Nav/Anti-Collision light assembly with two MS3367-1-9 Tie Straps.
  - G. Go to Step 10.
10. **Group B and C Airplanes:**(Refer to Figure 2 and Figure 3, Sheets 1 and Sheets 2.) Disconnect the stinger navigation light electrical wiring as follows:
- A. Remove the left front side panel located forward of the pilot-side circuit breaker panel.
  - B. (Refer to Figure 2 and Figure 3, Sheets 1.) Locate and remove the D436-37 Splice and wire identified as 1PT001 from connector PC001 Pin 11 (wire 11PC001-10JI004).  
**NOTE:** Wire 1PT001 is the power wire for the tail navigation light. Wire 11PC001-10JI004 will be spliced together without wire 1PT001.
  - C. (Refer to Figure 2 and Figure 3, Sheets 2.) Install a TC4001 Cap on the end of 1PT001 Wire.
  - D. (Refer to Figure 2 and Figure 3, Sheets 2.) Connect 10JI004 to 11PC001 Wires with one D436-37 Splice.
  - E. Install the left front side panel located forward of the pilot-side circuit breaker panel.
  - F. Go to Step 11.
11. Do a modification of the 2628005 Spacers as follows:
- A. Make a 3/32 Inch deep flat countersink with a 11/32 Inch Spot Face, at each screw hole location, on the concave side of the 2628005-3 and 2628005-4 Spacers.  
**NOTE:** The flat countersink will provide clearance of fasteners and allow the spacer to lay flat against the wing tip. The concave side of the spacer will face inboard toward the wing tip.
  - B. Use a clean cloth wet with isopropyl alcohol to clean the surface.
  - C. Let the parts dry.
  - D. Apply Color Chemical Film Treatment to the bare aluminum surface.
12. Remove and clean the wing tip surfaces of any residual gasket, sealant, dirt, or grime.
13. Install the left and right NAV/Anti-Collision light assemblies. (Refer to Model 208/208B Maintenance Manual, Chapter 33, LED NAV/Anti Collision Lights - Removal/Installation.)
- NOTE:** The 01-0790613-92 is for the left wing and the 01-0790613-91 is for the right wing.
- NOTE:** When installing the spacer, the concave side with the countersink will go inboard toward the wing tip.
- A. Remove the maintenance warning tags and connect the airplane battery.
  - B. Do an operational test of the NAV/Anti-Collision light assemblies. (Refer to Model 208/208B Maintenance Manual, Chapter 33, LED Exterior Lighting - Adjustmetn/Test, NAV/Anti-Collision Light Operational Test.)

14. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

**NOTE:** Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- Complete a record of compliance. (Maintenance Transaction Report, Log Book Entry, or other record of compliance.)
- Put a copy of the completed record of compliance in the airplane logbook.
- Send a copy of the completed record of compliance to the maintenance tracking system provider used.

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Figure 1. Group A Airplanes Wiring Modification (Sheet 1)

A109058

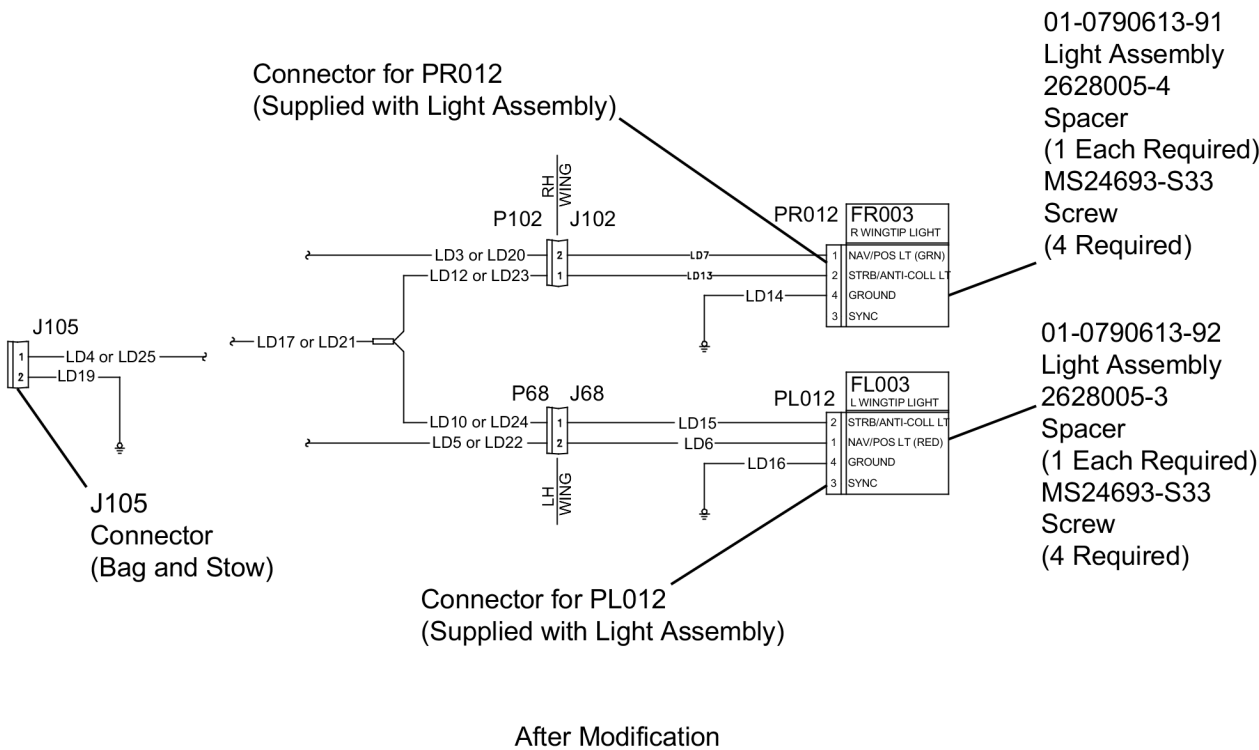
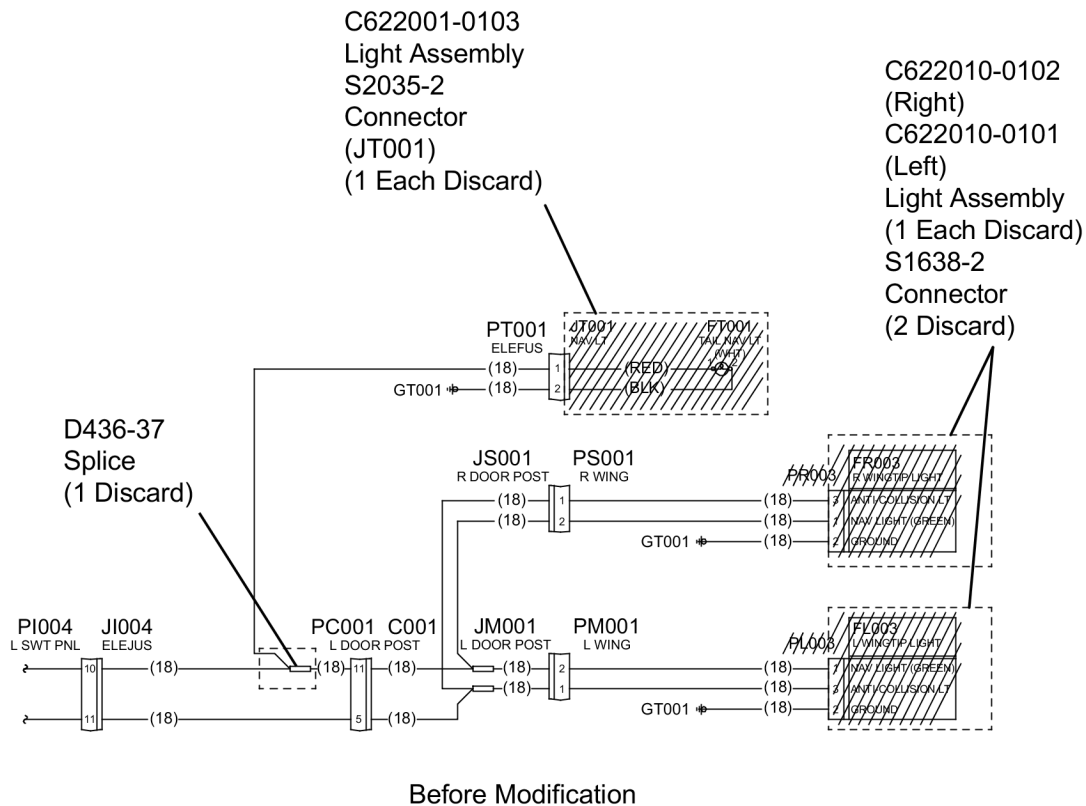


Figure 1. Group A Airplanes Wiring Modification (Sheet 2)

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A109060

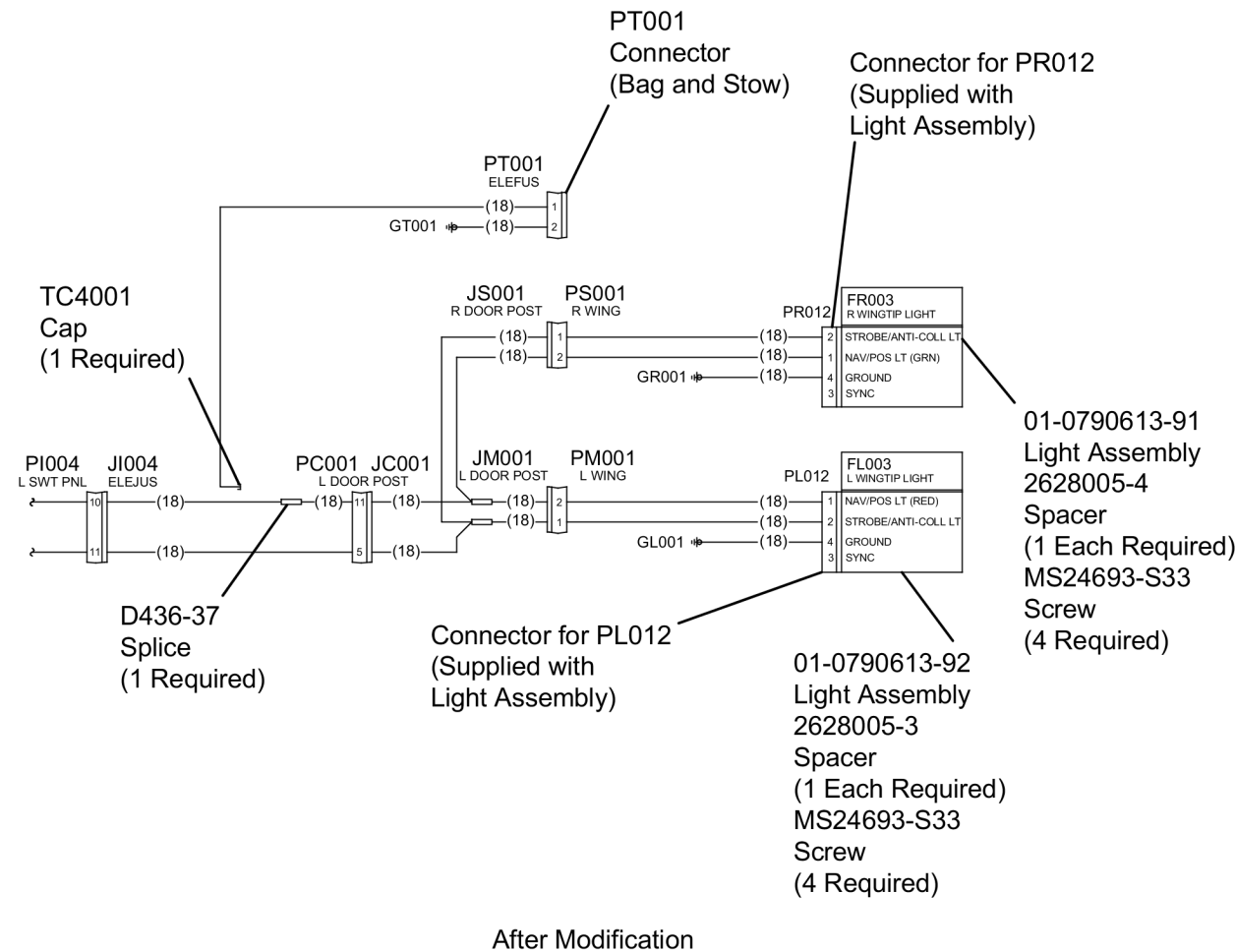


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Figure 2. Group B Airplanes Wiring Modification (Sheet 1)



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2697T386-1

Figure 2. Group B Airplanes Wiring Modification (Sheet 2)

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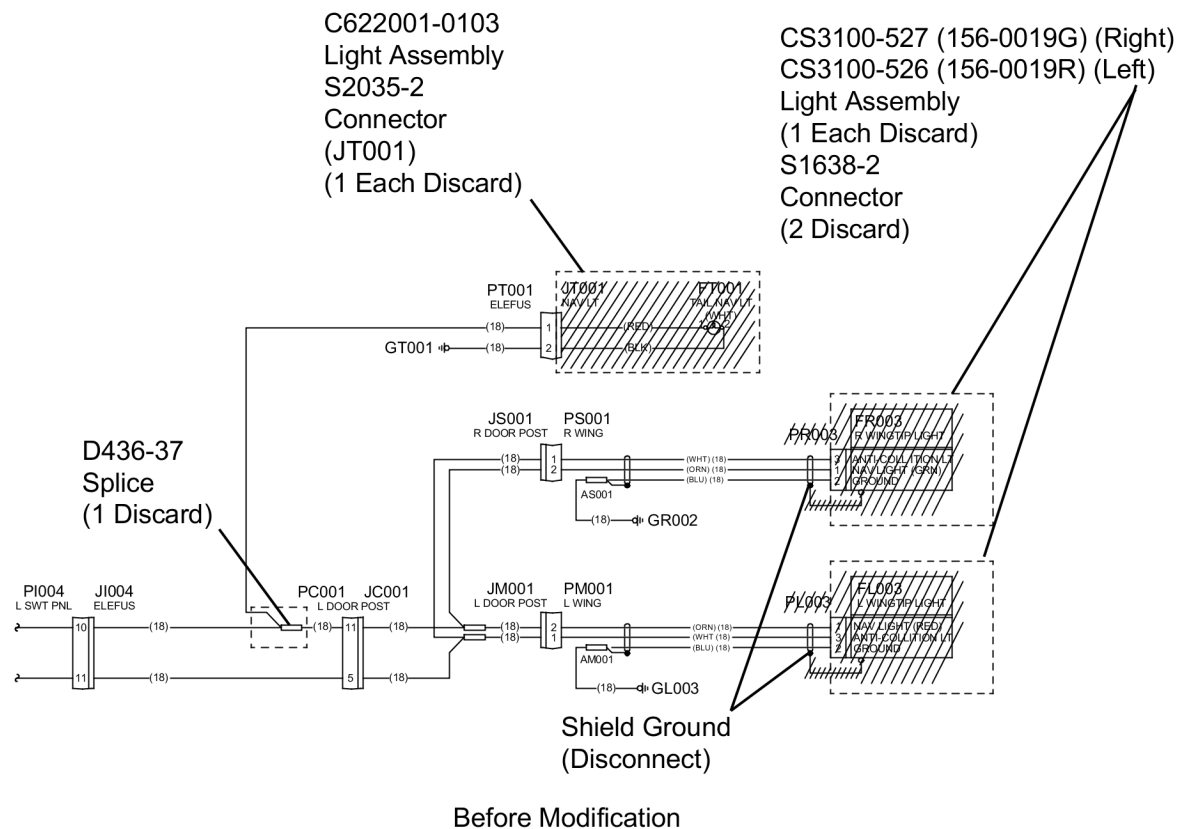


Figure 3. Group C Airplanes Wiring Modification (Sheet 1)

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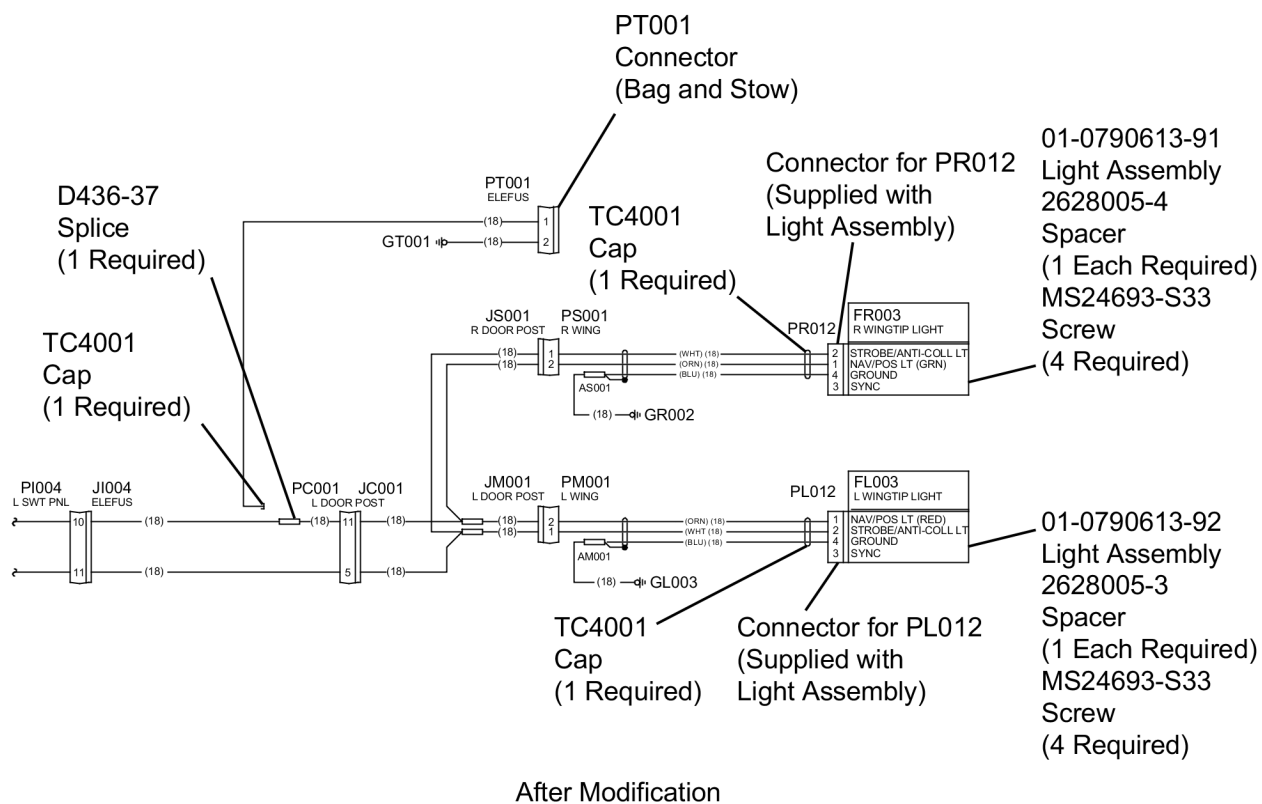


Figure 3. Group C Airplanes Wiring Modification (Sheet 2)

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## MATERIAL INFORMATION

Order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
<b>CAB-33-02</b>	1	<b>Kit</b> , consisting of the following parts:		
D436-37	1	Splice	Same	Discard old, Install New
MS24693-S33	8	Screw	MS24693S28	4 per side
S1021Z6-6	2	Screw	S1021Z6-10	Discard Old, Install New
S2209-1	10	Tie Strap	N/A	Secure Wires and Nameplates
S3231-5	2	Nut	NAS488-3-3	Discard Old, Install New
S4111-2A	1	Namplate marked PR012	N/A	Install on Wiring for Right Light Assembly
S4111-2A	1	Namplate marked PL012	N/A	Install on Wiring for Left Light Assembly
TC4001	3	End Cap	N/A	Cap Terminated Wires
01-0790613-91	1	LED NAV/Anti-Collision Light Assembly, Right	C622010-0101 or S3100-527	Discard Old, Install New, Right Wing
01-0790613-92	1	LED NAV/Anti-Collision Light Assembly, Left	C622010-0101 or S3100-526	Discard Old, Install New, Left Wing
2612115-3	1	Cover Plate	C622000-XXX	Discard Light Assembly, Install Cover Plate
2628005-3	1	Spacer, Left	N/A	Left side installation
2628005-4	1	Spacer, Right	N/A	Right side installation
CAB-33-02	1	Instructions		

\* Please contact Textron Aviation Parts Distribution for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International). Send email to: [parts@txtav.com](mailto:parts@txtav.com).

**TITLE**

LIGHTS - LED NAVIGATION AND ANTI-COLLISION LIGHT ASSEMBLIES INSTALLATION

**TO:**

Cessna 208 and 208B Aircraft Owner

**REASON**

The incandescent style navigation and anti-collision light assemblies are no longer available. LED style navigation anti-collision light assemblies are available as replacement.

**COMPLIANCE**

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

**LABOR HOURS**

As necessary.

**MATERIAL AVAILABILITY**

PART NUMBER	AVAILABILITY	COST
CAB-33-02	*	*

\* Please contact Textron Aviation Parts Distribution for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International). Send email to: [parts@txtav.com](mailto:parts@txtav.com).

Based on availability and lead times, parts may require advanced scheduling.

**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](http://www.txtavsupport.com) to register.

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