

**TITLE**

NAVIGATION - STALL WARNING HORN REPLACEMENT

**EFFECTIVITY**

MODEL	SERIAL NUMBERS
208	20800001 thru 20800670
208B	208B0001 thru 208B5618

The equivalent of this service document has been incorporated on production airplanes 208: 20800671 and ON and 208B: 208B5619 and ON.

**REASON**

The original stall warning horn is no longer available. If the stall warning horn needs to be replaced, a new stall warning horn is available.

**DESCRIPTION**

This service document provides parts and instructions to remove the original stall warning horn and wiring, drill a hole in the mounting plate and install a new stall warning horn, wiring connector.

**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.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

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.

May 25, 2021

CAB-34-11  
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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 received EASA 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 bulletin.

NAME	NUMBER	MANUFACTURER	USE
Color Chemical Film Treatment	Alodine 1132 Touch n Prep Pen	Commercially Available	To protect bare aluminum surface.
Heat Shrinkable Tubing	M233053/5-X-X	Commercially Available	To protect wiring and components.

### TOOLING

No specialized tooling is required to complete this service document.

### WEIGHT AND BALANCE INFORMATION

Negligible

### REFERENCES

Model 208 Series Maintenance Manual

Model 208 Series Wiring Diagram Manual

**NOTE:** To make sure all publications used are complete and current. Refer to [www.txtavsupport.com](http://www.txtavsupport.com).

### PUBLICATIONS AFFECTED

Model 208 Series Maintenance Manual

Model 208 Series Illustrated Parts Catalog

Model 208 Series Wiring Diagram Manual

### 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.

**NOTE:** Keep all components and hardware unless specified to discard.

2. (Refer to Figure 1, Sheet 1.) Remove the screws that attach the cover, and trim panel to the headliner above pilot seat.
  - A. Remove the cover and trim panel from the mounting plate.

- B. Remove screw at the aft end of the mounting plate.  
**NOTE:** These are the screws that attach the mounting plate to the bracket and allow the mounting plate to swivel downward.
  - C. Pull the aft end of the mounting plate down.
  - D. Identify and disconnect the electrical connector for the stall warning horn.
  - E. (Optional) Remove the hinge pin and remove the mounting plate. (Refer to the Model 208 Series Maintenance Manual, Chapter 27, Stall Warning System - Removal/Installation.)  
**NOTE:** It can be difficult to access the hinge pin. The technician can use discretion with removing the mounting plate or cutting the 1.25 Inch-diameter hole with the mounting plate installed. Protect interior upholstery with coverings and clean any metal shavings/chips promptly after cutting the hole.
3. (Refer to Figure 1, Sheet 1.) Remove the stall warning horn from the mounting plate and discard.
  4. (Refer to Figure 1, Sheet 2.) Do a modification of the mounting plate.
    - A. Identify the location for the 1.25 Inch-Diameter hole.
    - B. Cut a 1.25 Inch-Diameter hole at the identified location.
    - C. Deburr the cut hole.
    - D. Apply Color Chemical Film Treatment to the bare aluminum surface.
  5. (Refer to Figure 2, Sheet 1.) Buildup the wire harness for the SC648NDR Horn as follows:
    - A. Cut the C489242 (M81044/12-22-9) Electrical Wire into two equal lengths.
    - B. Install two S1635-1 Pins, one on each wire. (Refer to the Model 208 Series Wiring Diagram Manual, Chapter 20, Electrical Connectors - Maintenance Practices.)
    - C. Install the wires and S1635-1 Pins into the S2035-1 Housing. (Refer to the Model 208 Series Wiring Diagram Manual, Chapter 20, Electrical Connectors - Maintenance Practices.)  
**NOTE:** Positive (+) terminal to Pin 1 of PC012 and Negative (-) Terminal to Pin 2 of PC012. Pin 1 will have a protrusion on the S2035-1 Housing.
    - D. Install the TMS-SCE3/32-2.0-9 Identification Sleeves Marked POSUC020-1PC012 on each end of the wire inserted into the housing at Pin 1 location.
    - E. Install the TMS-SCE3/32-2.0-9 Identification Sleeves Marked NEGUC020-2PC012 on each end of the wire inserted into the housing at Pin 2 location.
    - F. Install one MS25036-145 Ring Terminal on the free end of each wire. (Refer to the Model 208 Series Wiring Diagram Manual, Chapter 20, Splices and Terminals - Maintenance Practices.)
    - G. Use a MS35206-245 Screw and connect the MS25036-145 Ring Terminal from Pin 1 of PC012 to the positive (+) terminal on the SC648NDR Horn.
    - H. Use a MS35206-245 Screw and connect the MS25036-145 Ring Terminal from Pin 2 of PC012 to the negative (-) terminal of the SC648NDR Horn.
    - I. Install the S4111-1A Nameplate marked with PC012 on the wires next to the S2035-1 Housing with two S2209-7 Tie Straps.
    - J. Install the S4111-1A Nameplate marked with UC020 on the wires next to the SC648NDR Horn with two S2209-7 Tie Straps.
  6. (Refer to Figure 1.) Install the SC648NDR Horn as follows:
    - A. Remove the knurled nut from the SC648NDR Horn.
    - B. Put the SC648NDR Horn into the 2613366-2 Mounting Plate.

- C. Install the knurled nut on the SC648NDR Horn and hand tighten.
7. (Refer to Figure 1, Sheet 1.) If removed, install the mounting plate and hinge pin. (Refer to the Model 208 Series Maintenance Manual, Chapter 27, Stall Warning System - Removal/Installation.)
8. Connect electrical connector PC012 to JC012 for the stall warning horn.
9. (Refer to Figure 1, Sheet 1.) Close the 2613366-2 Mounting Plate access for the warning horns and sirens above the pilot seat. (Refer to the Model 208 Series Maintenance Manual, Chapter 27, Stall Warning System - Removal/Installation.)
- A. Push the aft end of the mounting plate up and install the kept screws.
- B. Put the cover and trim panel into position and install with kept screws.
10. (Airplanes 208: 20800001 thru 20800670 Refer to Figure 2, Sheet 2, and airplanes 208B 208B0001 thru 208B5615, Refer to Figure 2, Sheet 3.) Do the wiring modification to install the S3106-4 Diode as follows:

**NOTE:** This wiring modification is only for airplanes 208: 20800001 thru 20800670 and 208B 208B0001 thru 208B5615.

**NOTE:** For all wiring maintenance in this step, refer to the Model 208 Series Wiring Diagram Manual, Chapter 20, Splices and Terminals - Maintenance Practices.

**NOTE:** PI005 is the round black connector located behind PFD2, there is a picture in Figure 2, Sheet 4.

- A. Install a M39029/63-368 on BLK lead from the S3106-4 Diode.
- B. De-pin wire 25PI005 and cut off the Contact Pin from the wire.
- C. Install BLK lead from the S106-4 Diode with the new M39029/63-368 Pin into 25PI005.
- D. Use a M81824/1-1 Splice and connect the WHT lead from S3106-4 Diode to the cut wire that was removed from 25PI005.
11. Remove the maintenance warning tags and connect the airplane battery.
12. Complete the stall warning system operational check. (Refer to the Model 208 Series Maintenance Manual, Chapter 27, Stall Warning System - Inspection/Check.)
- NOTE:** This check is to make sure that the stall warning horn sounds, it is not necessary to do the heat check of the stall vane identified in the maintenance manual procedure.
13. 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.

A110685

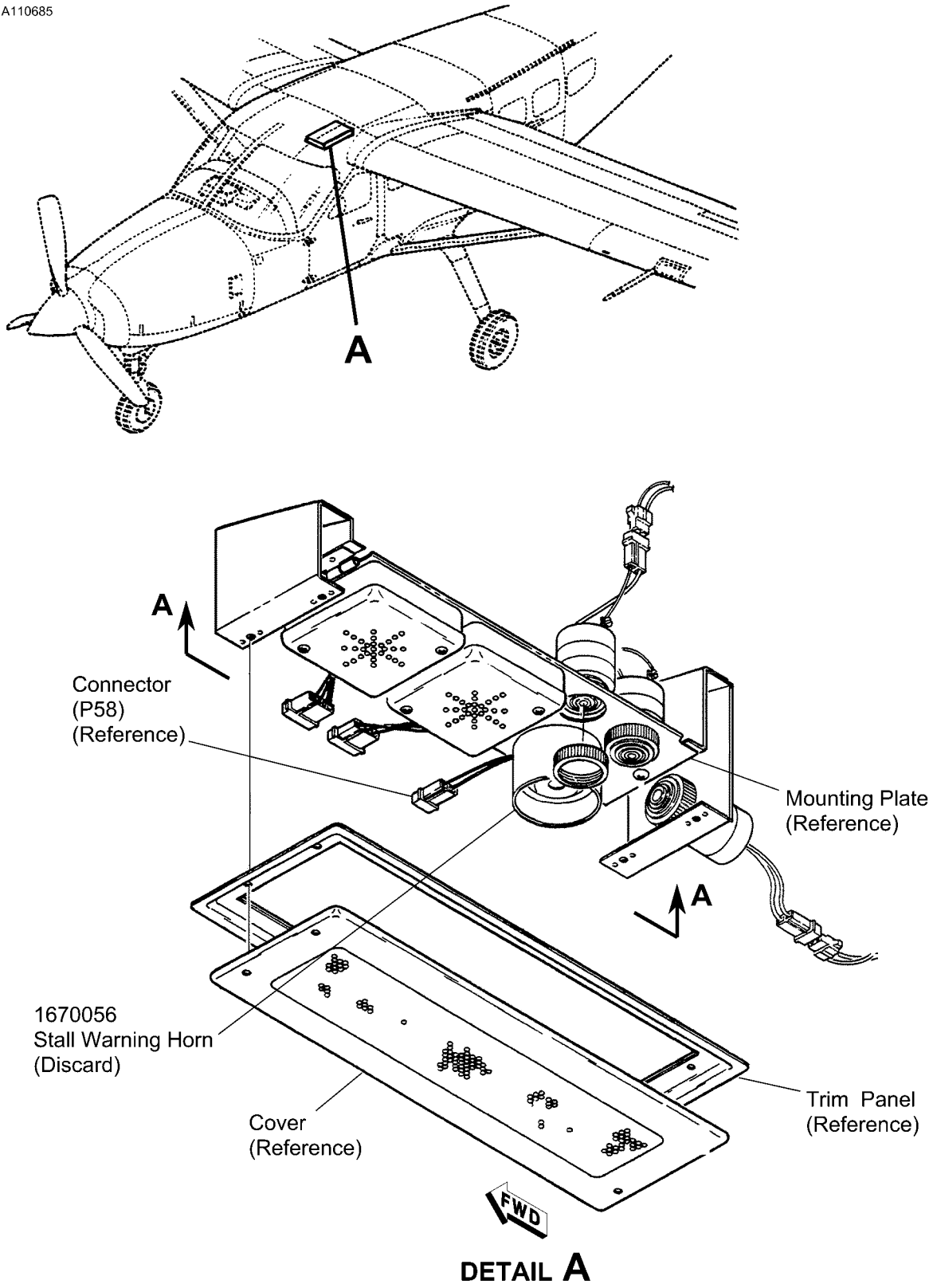
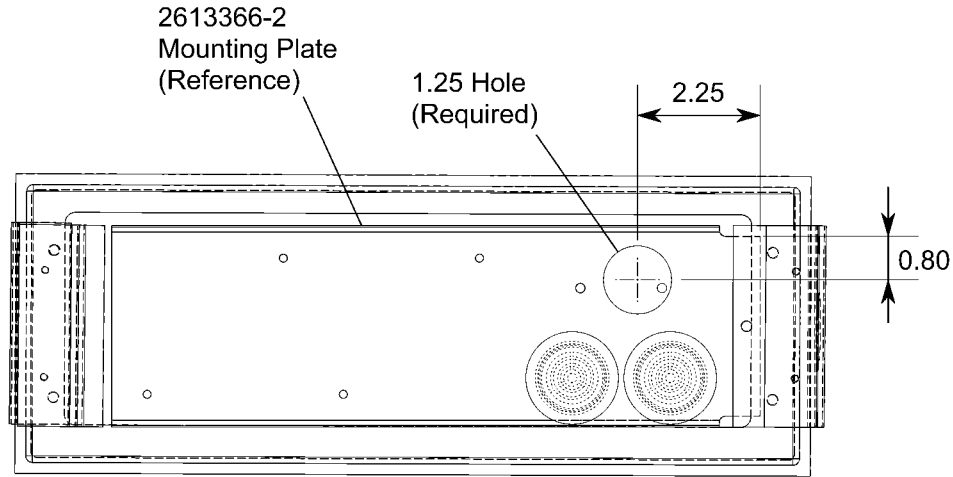


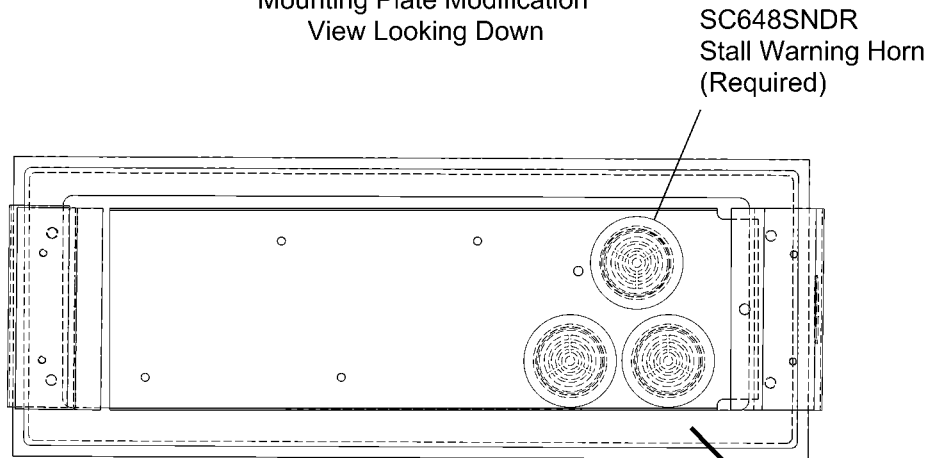
Figure 1. Stall Warning Horn Replacement (Sheet 1)

2664R1020  
A2514R2040

A110686



**VIEW A-A**  
Mounting Plate Modification  
View Looking Down



**VIEW A-A**  
Stall Warning Horn Installation  
After Modification  
View Looking Down

**NOTE:** All dimensions shown in inches.

AA2698T075-2

Figure 1. Stall Warning Horn Replacement (Sheet 2)

A111490

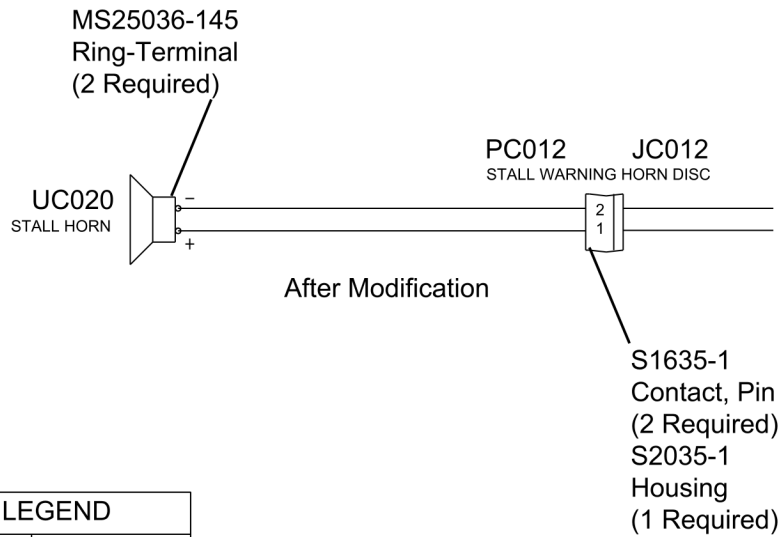
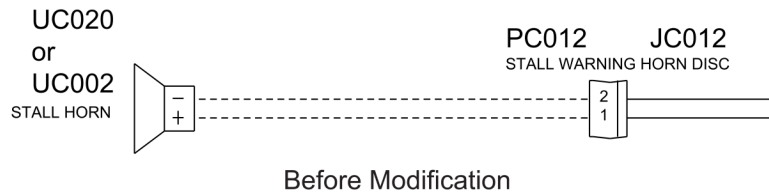


**DETAIL B**

Stall Warning Horn Installed  
View Looking Up, Installed in Airplane

Figure 1. Stall Warning Horn Replacement (Sheet 3)

A110689

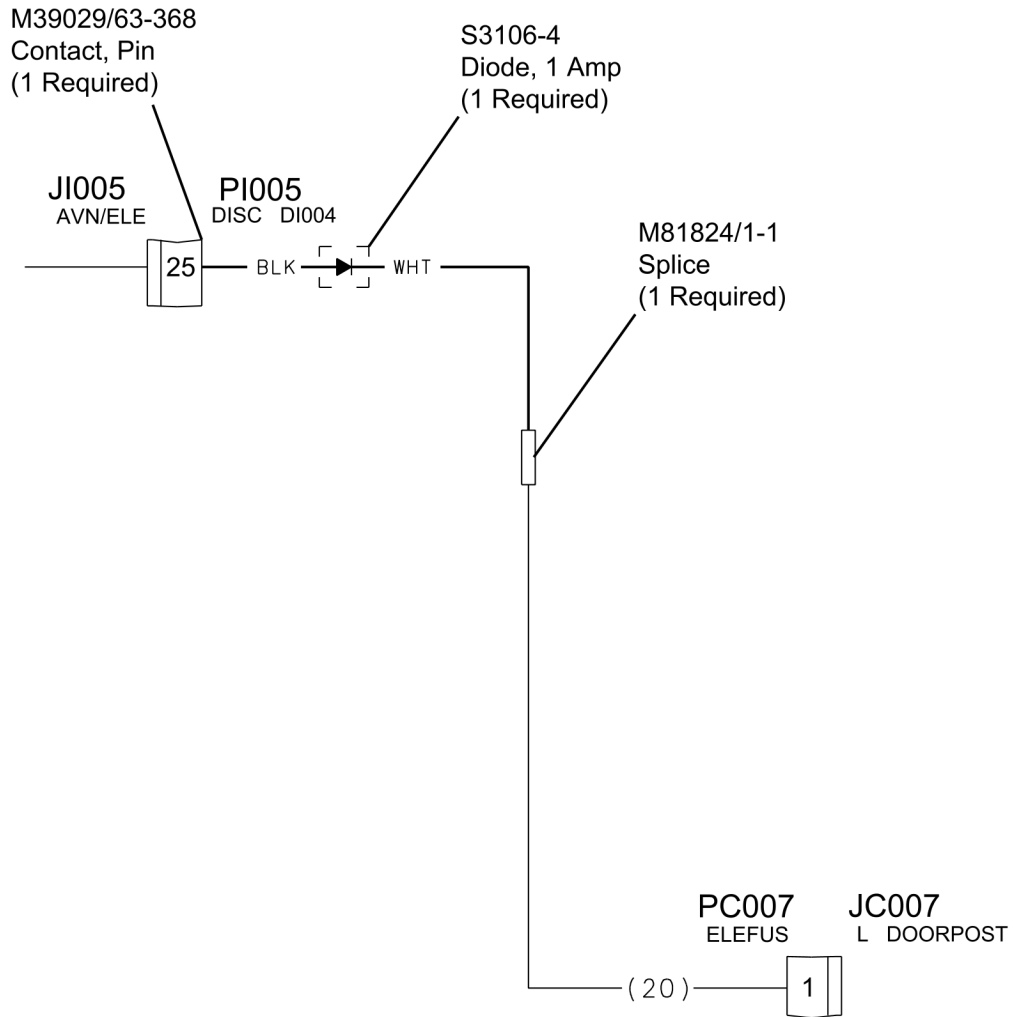


LEGEND	
-----	Removed
————	New

Figure 2. Stall Warning Horn Wiring Modification (Sheet 1)



A110823



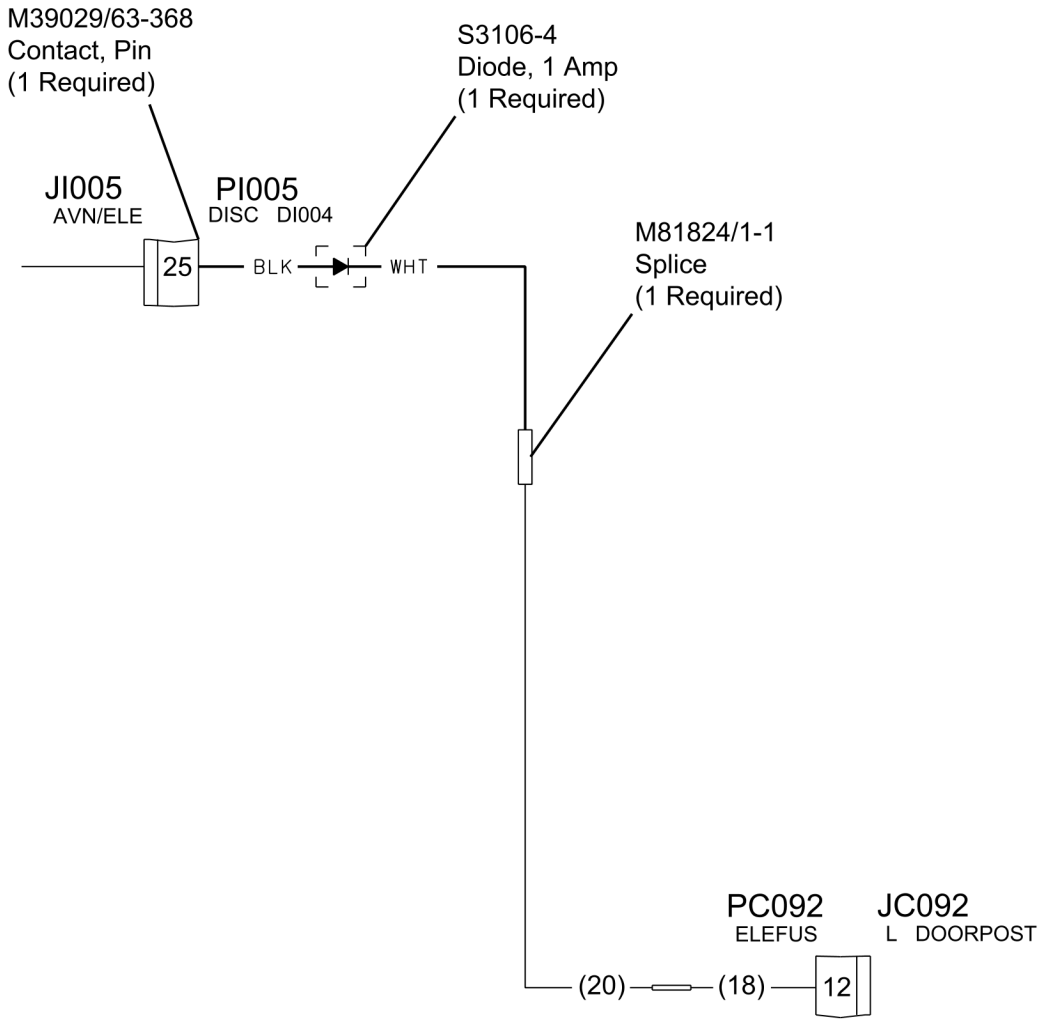
Model 208: 2080001 thru 2080670

**NOTE:** PI005 is Located behind PFD2.

2677200

Figure 2. Stall Warning Horn Wiring Modification (Sheet 2)

A111035



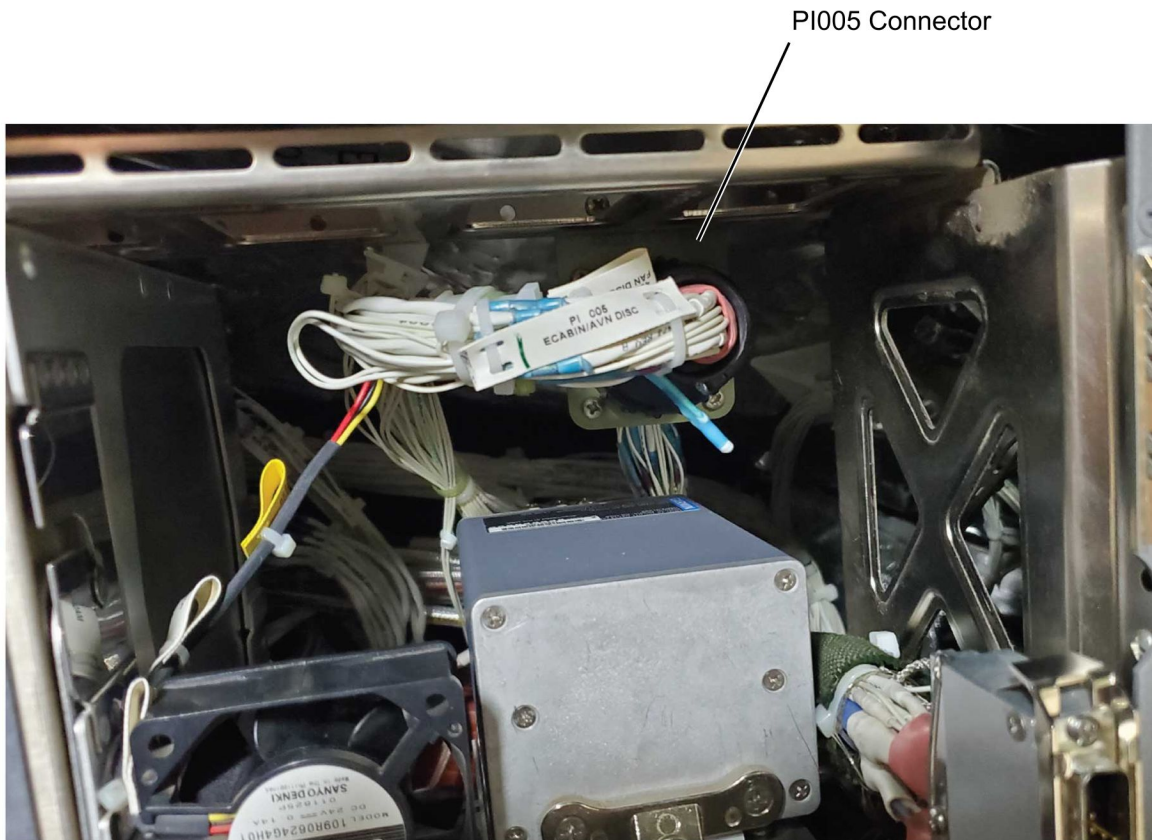
Model 208B: 208B0001 thru 208B5615

**NOTE:** PI005 is Located behind PFD2.

2677200

Figure 2. Stall Warning Horn Wiring Modification (Sheet 3)

A111491



View Looking behind PFD2

Figure 2. Stall Warning Horn Wiring Modification (Sheet 4)

**MATERIAL INFORMATION**

Order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
<b>CAB-34-11</b>	1	<b>Kit</b> , consisting of the following parts:		
C489242	24 Inches	Electrical Wire, Unmarked (M81044/12-22-9)		
MS25036-145	2	Ring Terminal		
MS35206-245	2	Screw		
M39029/63-368	1	Contact, Pin		
M81824/1-1	1	Splice		
SC648NDR	1	Stall Warning Horn		
S1635-1	2	Contact, Pin		
S2035-1	1	Housing		
S2209-7	4	Tie Strap		
S3106-4	1	Diode, 1 Amp		
S4111-1A	1	Nameplate marked (PC012)		
S4111-1A	1	Nameplate Marked (UC020)		
TMS-SCE3/32-2.0-9	1	Identification Sleeve Marked (NEGUC020-2PC012)		
TMS-SCE3/32-2.0-9	1	Identification Sleeve Marked (POSUC020-1PC012)		
CAB-34-11	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).

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

**TITLE**

NAVIGATION - STALL WARNING HORN REPLACEMENT

**TO:**

Cessna Model 208 and 208B Aircraft Owner

**REASON**

The original stall warning horn is no longer available. If the stall warning horn needs to be replaced, a new stall warning horn is available.

**COMPLIANCE**

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

**LABOR HOURS****WORK PHASE**

Modification

**LABOR-HOURS**

As Necessary

**MATERIAL AVAILABILITY****PART NUMBER**

CAB-34-11

**AVAILABILITY**

\*

**COST**

\*

\* 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.

