

TITLE

LANDING GEAR - LANDING GEAR WARNING HORN REPLACEMENT

EFFECTIVITY

MODEL	SERIAL NUMBERS
401A	401A0001 thru 401A0132
401B	401B0001 thru 401B0221
402A	402A0001 thru 402A0129
402B	402B0001 thru 402B1384
402C	402C0001 thru 402C1020
404	4040001 thru 4040859
414	4140001 thru 4140965
414A	414A0001 thru 414A1212
421A	421A0001 thru 421A0158
421B	421B0001 thru 421B0970
421C	421C0001 thru 421C1807

REASON

The original landing gear warning horn is no longer available. If the landing gear warning horn needs to be replaced, a new landing gear warning horn is available and will require an additional bracket for installation.

DESCRIPTION

This service document provides parts and instructions to remove the original landing gear warning horn and install a new landing gear warning horn.

NOTE: If the customer would like to replace the stall warning horn in conjunction with the landing gear warning horn, refer to MEB-34-07: Stall Warning Horn Replacement.

NOTE: Different configurations may be installed on the aircraft.

- **CONFIGURATION 1:** Aircraft replacing the 9910080-1 Landing Gear Warning Horn and the 9910080-2 Stall Warning Horn.
- **CONFIGURATION 2:** Aircraft replacing only the 9910080-1 Landing Gear Warning Horn.
- **CONFIGURATION 3:** Aircraft that have installed **CONFIGURATION 2**, from MEB-34-07: Stall Warning Horn Replacement, that have a 9910080-6 Stall Warning Horn, and the 9910080-1 Landing Gear Warning Horn needs to be replaced.

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NOTE: In addition to the different configurations the removal and installation procedures are split into two groups. Refer to the table below.

GROUP CONFIGURATIONS

Group A		Group B	
Model	Serial Range	Model	Serial Range
401A	401A0001 thru 401A0132	402B	402B0301 thru 402B1384
401B	401B0001 thru 401B0221	402C	402C0001 thru 402C1020
402A	402A0001 thru 402A0129	404	4040001 thru 4040859
402B	402B0001 thru 402B0300	414	4140351 thru 4140965
414	4140001 thru 4140350	414A	414A0001 thru 414A1212
421A	421A0001 thru 421A0050	421B	421B0301 thru 421B0970
421B	421B0001 thru 421B0300	421C	421C0001 thru 421C1807

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.

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	Alodine 1132 Touch n Prep Pen	Commercially Available	To protect bare aluminum surface.

TOOLING

No specialized tooling is required to complete this service document.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Cessna Model 401/402 Series (1967-1978) Parts Catalog
Cessna Model 401 and 402 (1967-1978) Service Manual
Cessna Model 402C (1979-1985) Maintenance Manual
Cessna Model 404 Parts Catalog (1977-1981)
Cessna Model 404 (1977-1981) Service Manual
Cessna Model 414 (1969-1985) Parts Catalog
Cessna Model 414/414A (1970-1985) Service Manual
Cessna Model 421, 421A, 421B Series (1968-1975) Parts Catalog
Cessna Model 421, 421A, 421B Series (1968-1975) Service Manual
Cessna Model 421C (1976-1985) Parts Catalog
Cessna Model 421C (1976-1985) Service Manual
MEB-34-07: Stall Warning Horn Replacement

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

PUBLICATIONS AFFECTED

Cessna Model 401/402 Series (1967-1978) Parts Catalog
Cessna Model 402C (1979-1985) Parts Catalog
Cessna Model 404 Parts Catalog (1977-1981)
Cessna Model 414 (1969-1985) Parts Catalog
Cessna Model 421, 421A, 421B (1968-1975) Parts Catalog
Cessna Model 421C (1976-1985) 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.

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

MODEL 401A, 401B, 402A, AND 402B

- Refer to the Model 401/402 Series (1967-1978) Parts Catalog, Section 2 Part 1 - Group Assembly - Airplane Assembly, Figure 26 - Switch Console Structure Installation.
- Refer to the Model 401/402 Series (1967-1978) Parts Catalog, Section 2 Part 1 - Group Assembly - Airplane Assembly, Figure 181, Switch Console Electrical Components.
- Refer to the Model 401 and 402 (1967-1978) Service Manual.

MODEL 402C

- Refer to the Model 402C (1979-1985) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.
- Refer to the Model 402C (1979-1985) Maintenance Manual, Chapter 32, Position and Warning - Maintenance Practices.

MODEL 404

- Model 404 Parts Catalog (1977-1981), Chapter 03 - Airframe, Section 23, Figure 4 - Switch Console Structure Installation.
- Refer to the Model 404 (1977-1981) Service Manual, Chapter 4, Landing Gear and Brake System, Section 70.
- Refer to the Model 404 (1977-1981) Service Manual.

MODEL 414 AND 414A

- Model 414 (1969-1985) Parts Catalog, Chapter 53, Figure 05 - Switch Console Structure Installation.
- Refer to the Model 414/414A (1970-1985) Service Manual, Section 4, Landing Gear Blowdown System/ Warning and Indicating System.
- Refer to the Model 414/414A (1970-1985) Service Manual.

MODEL 421A AND 421B

- Refer to the Model 421, 421A, 421B Series (1968-1975) Parts Catalog, Section 2 Part 1- Group Assembly Parts List - Airplane Assembly, Figure 30 - Switch Console Structure Installation.
- Refer to the Model 421, 421A, 421B Series (1968-1975) Parts Catalog, Section 2 Part 1- Group Assembly Parts List - Airplane Assembly, Figure 192 - Switch Console Electrical Components Installation.
- Refer to the Model 421, 421A, 421B Series (1968-1975) Service Manual.

MODEL 421C

- Model 421C (1976-1985) Parts Catalog, Chapter 3 - Airframe, Section 23, Figure 4 - Switch Console Structure Installation.
- Model 421C (1976-1985) Service Manual, Chapter 4, Landing Gear and Brake System, Section 70 - Warning and Indicating System.
- Model 421C (1976-1985) Service Manual.

2. Gain access as required to get to the 9910080-1 Landing Gear Warning Horn.

CONFIGURATION 1

NOTE: The removal of the 9910080-1 Landing Gear Warning Horn and the 9910080-2 Stall Warning Horn are the same for the two groups of **CONFIGURATION 1**.

3. (Refer to Figure 1, Sheet 1.) Remove the 9910080-1 Landing Gear Warning Horn as follows:
 - A. Remove and discard the screw and lock washer from the 9910080-1 Landing Gear Warning Horn.
 - B. Disconnect and label the electrical wiring from the 9910080-1 Landing Gear Warning Horn.
 - C. Discard all electrical hardware from the 9910080-1 Landing Gear Warning Horn.
 - D. Discard the 9910080-1 Landing Gear Warning Horn.
 - E. Remove and discard the screw and lock washer from the 9910080-2 Stall Warning Horn.
 - F. Disconnect and label the electrical wiring from the 9910080-2 Stall Warning Horn.
 - G. Discard all electrical hardware from the 9910080-2 Stall Warning Horn.
 - H. Discard the 9910080-2 Stall Warning Horn.
 - I. Remove and keep the two mounting screws from the 5118331 Channel.

NOTE: The kept mounting screws will be used for installation.
 - J. Discard the two washers from the 5118331 Channel and the 5118331 Channel.
 - K. Based upon the type of installation refer to the **GROUP CONFIGURATIONS** Table, and go to the steps as follows:
 - (1) **GROUP A** go to Step 4.
 - (2) **GROUP B** go to Step 8.

GROUP A INSTALLATION

NOTE: To install the 9910080-6 Stall Warning Horn, reference **CONFIGURATION 1 GROUP A INSTALLATION** procedures and parts from MEB-34-07: Stall Warning Horn Replacement.

4. (Refer to Figure 2, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:
 - A. Match drill the two Number 24 (0.152 inch diameter) holes of the 5118316 Panel Assembly to the 5290604-5 Bracket.
 - (1) Deburr the drilled holes from the 5290604-5 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - B. Install the 5290604-5 Bracket with the two kept mounting screws and the two NAS1149FN632P Washers into the 5118316 Panel Assembly.
 - C. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-5 Bracket.
 - D. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.

NOTE: The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.

- E. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.

- 5. Install the 9910080-6 Stall Warning Horn. (Refer to MEB-34-07: Stall Warning Horn Replacement, **CONFIGURATION 1 GROUP A INSTALLATION.**)

- 6. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:

- A. Remove the maintenance warning tags and connect the airplane battery.
- B. Jack the airplane until all tires are off of the ground.
- C. Retract the landing gear to the up and locked position.
- D. Put the flap lever to the full down position.

NOTE: The landing gear warning horn should produce an audible sound once the flaps are in the approach position.

- E. Put the flap lever to the full up position.
 - F. Extend the landing gear to the down and locked position.
 - G. Put the aircraft onto the ground and remove the aircraft jacks.
- 7. Go to Step 38.

GROUP B INSTALLATION

NOTE: To install the 9910080-6 Stall Warning Horn, reference **CONFIGURATION 1 GROUP B INSTALLATION** procedures and parts from MEB-34-07: Stall Warning Horn Replacement.

- 8. (Refer to Figure 3, Sheet 3.) Locate and drill the two holes into the 5618026 Panel Assembly as follows:

- A. Locate and drill the two Number 11 (0.191 inch diameter) holes into the 5618026 Panel Assembly.
 - (1) Debur the drilled holes from the 5618026 Panel Assembly.
 - (2) Apply Color Chemical Film Treatment to all bare metal.

- B. Install the two NAS1329H06-75 Rivnuts into the drilled holes of the 5618026 Panel Assembly.

- 9. (Refer to Figure 3, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:

- A. Match drill the two new holes of the 5618026 Panel Assembly to a Number 11/32 (0.344 inch diameter) holes into the 5290604-6 Insulator.
 - (1) Debur the drilled holes from the 5290604-6 Insulator.
- B. Match drill the two new holes of the 5618026 Panel Assembly to a Number 24 (0.152 inch diameter) holes into the 5290604-5 Bracket.
 - (1) Debur the drilled holes from the 5290604-5 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
- C. Install the 5290604-5 Bracket and the 5290604-6 Insulator into the rivnuts of the 5618026 Panel Assembly with the two kept mounting screws and the two NAS1149FN632P Washers.
- D. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-5 Bracket.

- E. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.

NOTE: The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.

- F. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.

10. Install the 9910080-6 Stall Warning Horn. (Refer to MEB-34-07: Stall Warning Horn Replacement, **CONFIGURATION 1 GROUP B INSTALLATION.**)

11. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:

- A. Remove the maintenance warning tags and connect the airplane battery.
- B. Jack the airplane until all tires are off of the ground.
- C. Retract the landing gear to the up and locked position.
- D. Put the flap lever to the full down position.

NOTE: The landing gear warning horn should produce an audible sound once the flaps are in the approach position.

- E. Put the flap lever to the full up position.
- F. Extend the landing gear to the down and locked position.
- G. Put the aircraft onto the ground and remove the aircraft jacks.

12. Go to Step 38.

CONFIGURATION 2

NOTE: The removal of the 9910080-1 Landing Gear Warning Horn and the 9910080-2 Stall Warning Horn are the same for the two groups of **CONFIGURATION 2.**

13. (Refer to Figure 1, Sheet 1.) Remove the 9910080-1 Landing Gear Warning Horn as follows:

- A. Remove and discard the screw and lock washer from the 9910080-1 Landing Gear Warning Horn.
- B. Disconnect and label the electrical wiring from the 9910080-1 Landing Gear Warning Horn.
- C. Discard all electrical hardware from the 9910080-1 Landing Gear Warning Horn.
- D. Discard the 9910080-1 Landing Gear Warning Horn.
- E. Remove and keep the screw and lock washer from the 9910080-2 Stall Warning Horn.

NOTE: The kept screw and lock washer will be used during installation.

- F. Keep the 9910080-2 Stall Warning Horn.

NOTE: The kept 9910080-2 Stall Warning Horn will be used during installation.

- G. Remove and keep the two mounting screws from the 5118331 Channel.

NOTE: The kept mounting screws will be used for installation.

- H. Discard the two washers from the 5118331 Channel and the 5118331 Channel.

- I. Based upon the type of installation refer to the **GROUP CONFIGURATIONS** Table, and go to the steps as follows:

- (1) **GROUP A** go to Step 14.
- (2) **GROUP B** go to Step 19.

GROUP A INSTALLATION

14. (Refer to Figure 4, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:
- A. Match drill the two Number 24 (0.152 inch diameter) holes of the 5118316 Panel Assembly into the 5290604-3 Bracket.
 - (1) Debur the drilled holes from the 5290604-3 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - B. Install the 5290604-3 Bracket and the 5618033-1 Insulator with the two kept mounting screws and the two NAS1149FN632P Washers into the 5118316 Panel Assembly.
 - C. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-3 Bracket.
 - D. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.

NOTE: The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.
 - E. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.
15. Install the 9910080-2 Stall Warning Horn into the 5290604-3 Bracket with the kept screw and lock washer.
16. Do the stall warning horn operational check as follows:
- A. Remove the maintenance warning tags and connect the airplane battery.
 - B. Put the avionics power switch to the ON position.
 - C. On the left wing tip, activate the stall vane by pushing the tab up.

NOTE: The stall warning horn should produce an audible sound.
17. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:
- A. Jack the airplane until all tires are off of the ground.
 - B. Retract the landing gear to the up and locked position.
 - C. Put the flap lever to the full down position.

NOTE: The landing gear warning horn should produce an audible sound once the flaps are in the approach position.
 - D. Put the flap lever to the full up position.
 - E. Extend the landing gear to the down and locked position.
 - F. Put the aircraft onto the ground and remove the aircraft jacks.
18. Go to Step 38.

GROUP B INSTALLATION

19. (Refer to Figure 3, Sheet 3.) Locate and drill the two new holes into the 5618026 Panel Assembly as follows:
 - A. Locate and drill the two Number 11 (0.191 inch diameter) holes into the 5618026 Panel Assembly.
 - (1) Deburr the drilled holes from the 5618026 Panel Assembly.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - B. Install the two NAS1329H06-75 Rivnuts into the drilled holes of the 5618026 Panel Assembly.
20. (Refer to Figure 5, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:
 - A. Match drill the two new holes of the 5618026 Panel Assembly to a Number 11/32 (0.344 inch diameter) holes into the 5290604-6 Insulator.
 - (1) Deburr the drilled holes from the 5290604-6 Insulator.
 - B. Match drill the two new holes of the 5618026 Panel Assembly to a Number 24 (0.152 inch diameter) holes into the 5290604-3 Bracket.
 - (1) Deburr the drilled holes from the 5290604-3 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - C. Install the 5290604-3 Bracket and the 5290604-6 Insulator into the rivnuts of the 5618026 Panel Assembly with the two kept mounting screws and the two NAS1149FN632P Washers.
 - D. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-3 Bracket.
 - E. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.

NOTE: The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.
 - F. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.
21. Install the 9910080-2 Stall Warning Horn into the 5290604-3 Bracket with the kept screw and lock washer.
22. Do the stall warning horn operational check as follows:
 - A. Remove the maintenance warning tags and connect the airplane battery.
 - B. Put the avionics power switch to the ON position.
 - C. On the left wing tip, activate the stall vane by pushing the tab up.

NOTE: The stall warning horn should produce an audible sound.
23. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:
 - A. Jack the airplane until all tires are off of the ground.
 - B. Retract the landing gear to the up and locked position.
 - C. Put the flap lever to the full down position.

NOTE: The landing gear warning horn should produce an audible sound once the flaps are in the approach position.
 - D. Put the flap lever to the full up position.

- E. Extend the landing gear to the down and locked position.
 - F. Put the aircraft onto the ground and remove the aircraft jacks.
24. Go to Step 38.

CONFIGURATION 3

NOTE: The removal of the 9910080-1 Landing Gear Warning Horn and the install of the 9910080-5 Landing Gear Warning Horn are based upon the configuration groups listed within this document, refer the **GROUP CONFIGURATIONS** Table and refer to the correct group's removal and installation procedures.

GROUP A REMOVAL

NOTE: Make sure that **CONFIGURATION 2 GROUP A INSTALLATION** from MEB-34-07: Stall Warning Horn Replacement has been installed.

25. (Refer to Figure 6, Sheet 1.) Remove the 5290604-3 Bracket as follows:
- A. Remove and discard the screw and lock washer from the 9910080-1 Landing Gear Warning Horn.
 - B. Disconnect and label the electrical wiring from the 9910080-1 Landing Gear Warning Horn.
 - C. Discard all electrical hardware from the 9910080-1 Landing Gear Warning Horn.
 - D. Discard the 9910080-1 Landing Gear Warning Horn.
 - E. Remove and keep the 9910080-6 Stall Warning Horn.
- NOTE:** The kept 9910080-6 Stall Warning Horn will be used during installation.
- F. Remove and keep the two mounting screws and the two washers from the 5290604-3 Bracket.
- NOTE:** The kept mounting screws and washers will be used during installation.
- G. Discard the 5618033-1 Insulator and the 5290604-3 Bracket.

26. Go to Step 27.

GROUP A INSTALLATION

27. (Refer to Figure 7, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:
- A. Match drill the two Number 24 (0.152 inch diameter) holes of the 5118316 Panel Assembly to the 5290604-5 Bracket.
 - (1) Debur the drilled holes from the 5290604-5 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - B. Install the 5290604-5 Bracket with the two kept mounting screws and the two kept washers into the 5118316 Panel Assembly.
 - C. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-5 Bracket.
 - D. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.
- NOTE:** The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.

- E. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.

- 28. Install the kept 9910080-6 Stall Warning Horn into the 5290604-5 Bracket.
- 29. Do the stall warning horn operational check as follows:
 - A. Remove the maintenance warning tags and connect the airplane battery.
 - B. Put the avionics power switch to the ON position.
 - C. On the left wing tip, activate the stall vane by pushing the tab up.

NOTE: The stall warning horn should produce an audible sound.
- 30. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:
 - A. Jack the airplane until all tires are off of the ground.
 - B. Retract the landing gear to the up and locked position.
 - C. Put the flap lever to the full down position.

NOTE: The landing gear warning horn should produce an audible sound once the flaps are in the approach position.
 - D. Put the flap lever to the full up position.
 - E. Extend the landing gear to the down and locked position.
 - F. Put the aircraft onto the ground and remove the aircraft jacks.
- 31. Go to Step 38.

GROUP B REMOVAL

NOTE: Make sure that **CONFIGURATION 2 GROUP B INSTALLATION** from MEB-34-07: Stall Warning Horn Replacement has been installed.

- 32. (Refer to Figure 8, Sheet 1.) Remove the 5290604-3 Bracket as follows:
 - A. Remove and discard the screw and lock washer from the 9910080-1 Landing Gear Warning Horn.
 - B. Disconnect and label the electrical wiring from the 9910080-1 Landing Gear Warning Horn.
 - C. Discard all electrical hardware from the 9910080-1 Landing Gear Warning Horn.
 - D. Discard the 9910080-1 Landing Gear Warning Horn.
 - E. Remove and keep the 9910080-6 Stall Warning Horn.

NOTE: The kept 9910080-6 Stall Warning Horn will be used during installation.
 - F. Remove and keep the two mounting screws and the two washers from the 5290604-3 Bracket.
 - G. Remove and keep the 5290604-6 Insulator.

NOTE: The kept 5290604-6 Insulator will be used for installation.
 - H. Discard the 5290604-3 Bracket.
- 33. Go to Step 34.

GROUP B INSTALLATION

34. (Refer to Figure 9, Sheet 1 and 2.) Install the 9910080-5 Landing Gear Warning Horn as follows:
- A. Match drill the two Number 24 (0.152 inch diameter) holes of the 5618026 Panel Assembly to the 5290604-5 Bracket.
 - (1) Debur the drilled holes from the 5290604-5 Bracket.
 - (2) Apply Color Chemical Film Treatment to all bare metal.
 - B. Install the 5290604-5 Bracket and the kept 5290604-6 Insulator into the rivnuts of the 5118316 Panel Assembly with the two kept mounting screws and the two kept washers.
 - C. Install the 9910080-5 Landing Gear Warning Horn into the 5290604-5 Bracket.
 - D. Install the knurled nut onto the 9910080-5 Landing Gear Warning Horn.

NOTE: The plastic knurled nut must be installed with the three indents toward the bracket and horn assembly. On the internal circumference, the smooth side without threads is installed first, towards the bracket and horn. This technique of installation will make sure the nut fully seats against the bracket and not bottom-out on the threads. If not installed correctly the knurled nut will bottom-out on the threads and the horn assembly will not be fully tightened in the bracket.
 - E. Install the labeled electrical wiring, screws, and the two MS35333-37 Lock Washers into the 9910080-5 Landing Gear Warning Horn.

NOTE: The screws are supplied with the 9910080-5 Landing Gear Warning Horn.
35. Install the kept 9910080-6 Stall Warning Horn into the 5290604-5 Bracket.
36. Do the stall warning horn operational check as follows:
- A. Remove the maintenance warning tags and connect the airplane battery.
 - B. Put the avionics power switch to the ON position.
 - C. On the left wing tip, activate the stall vane by pushing the tab up.

NOTE: The stall warning horn should produce an audible sound.
37. Do the operational check of the 9910080-5 Landing Gear Warning Horn as follows:
- A. Jack the airplane until all tires are off of the ground.
 - B. Retract the landing gear to the up and locked position.
 - C. Put the flap lever to the full down position.

NOTE: The 9910080-5 Landing Gear Warning Horn should sound once the flaps are in the approach position.
 - D. Put the flap lever to the full up position.
 - E. Extend the landing gear to the down and locked position.
 - F. Put the aircraft onto the ground and remove the aircraft jacks.
38. Put the avionics power switch to the OFF position.
39. Disconnect the airplane battery.
40. Install all access panels and interior that were removed during this bulletin.
41. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

B22207

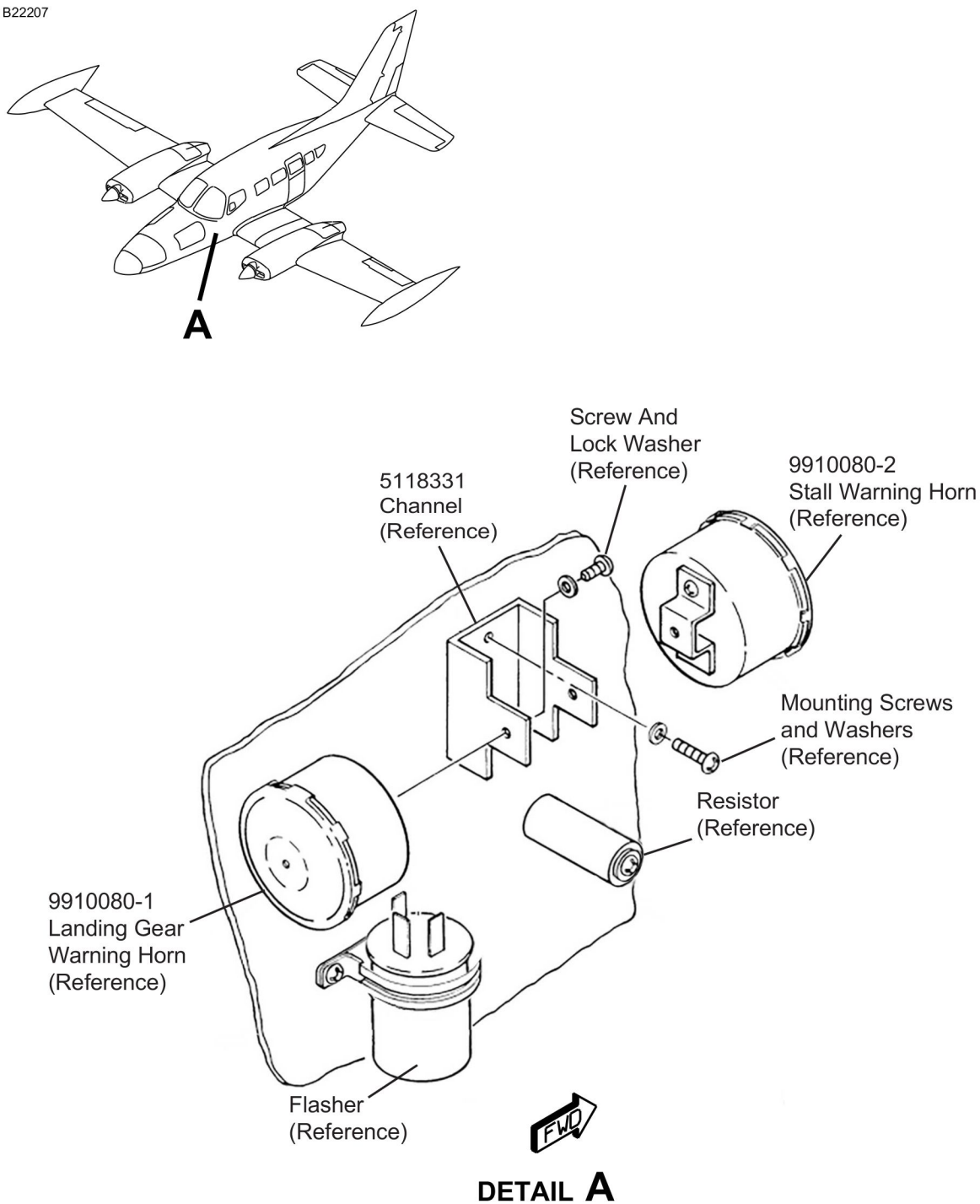
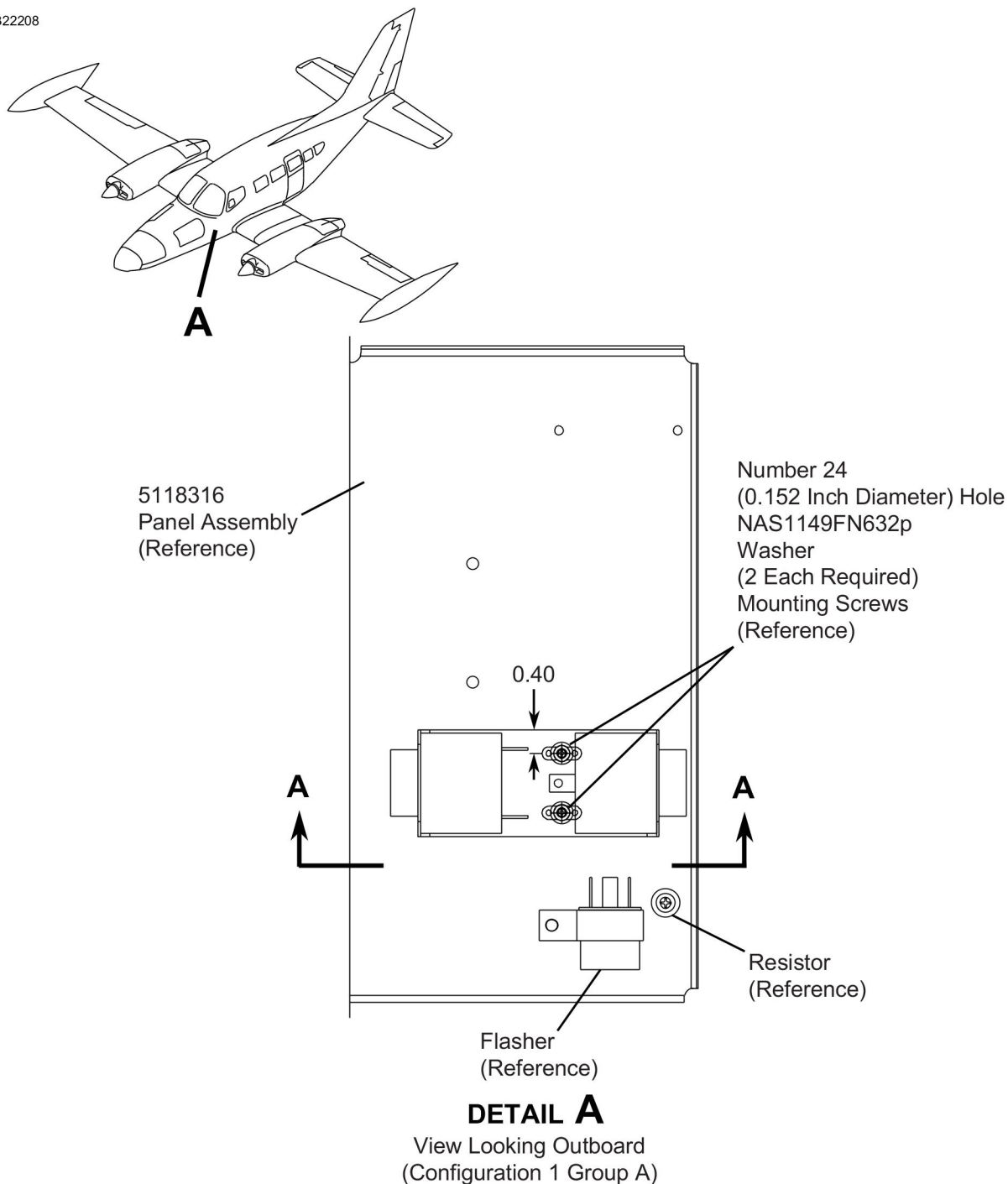


Figure 1. Before Modification (Sheet 1)

B22208



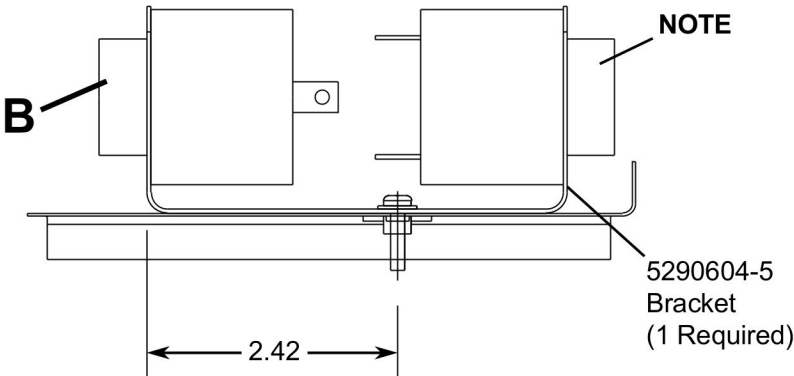
NOTE: The Aircraft Shown is a Cessna Model 402. Yet, The Location of the 9910080-1 Landing Gear Warning Horn and the 9910080-2 Stall Warning Horn are the Same Across All Models.

NOTE 1: All Dimensions are in Inches.

5290604

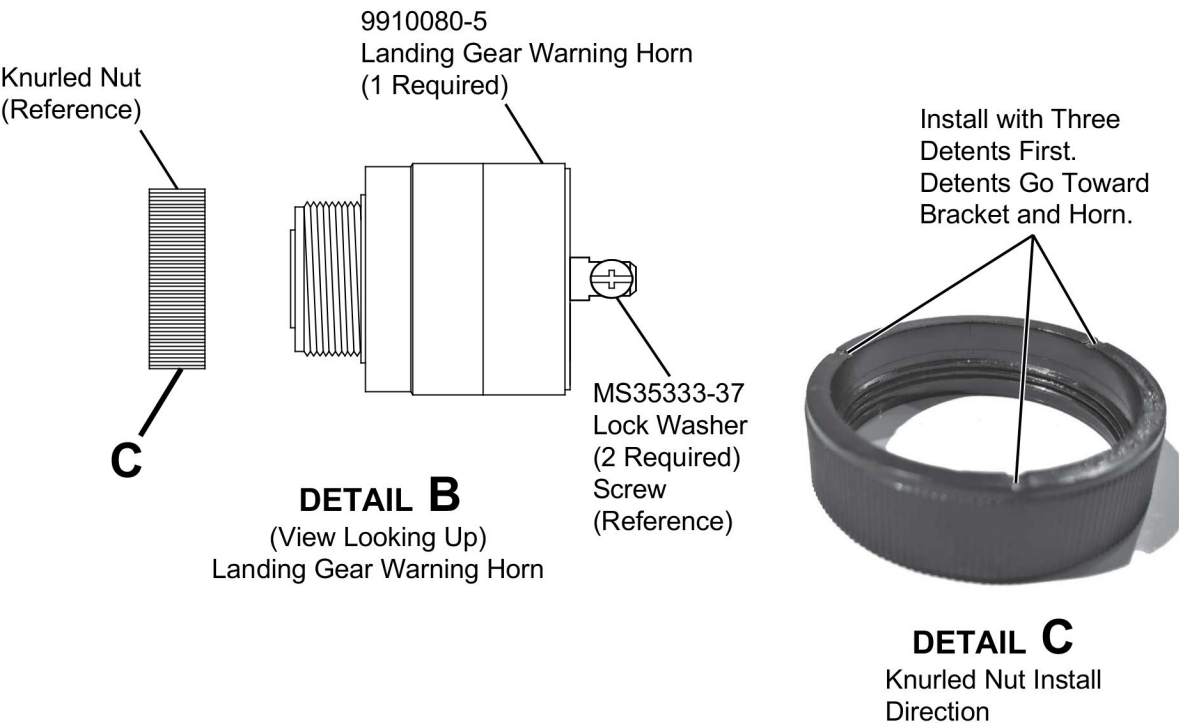
Figure 2. Group A Configuration 1 (Sheet 1)

B22209



VIEW A-A
View Looking Up

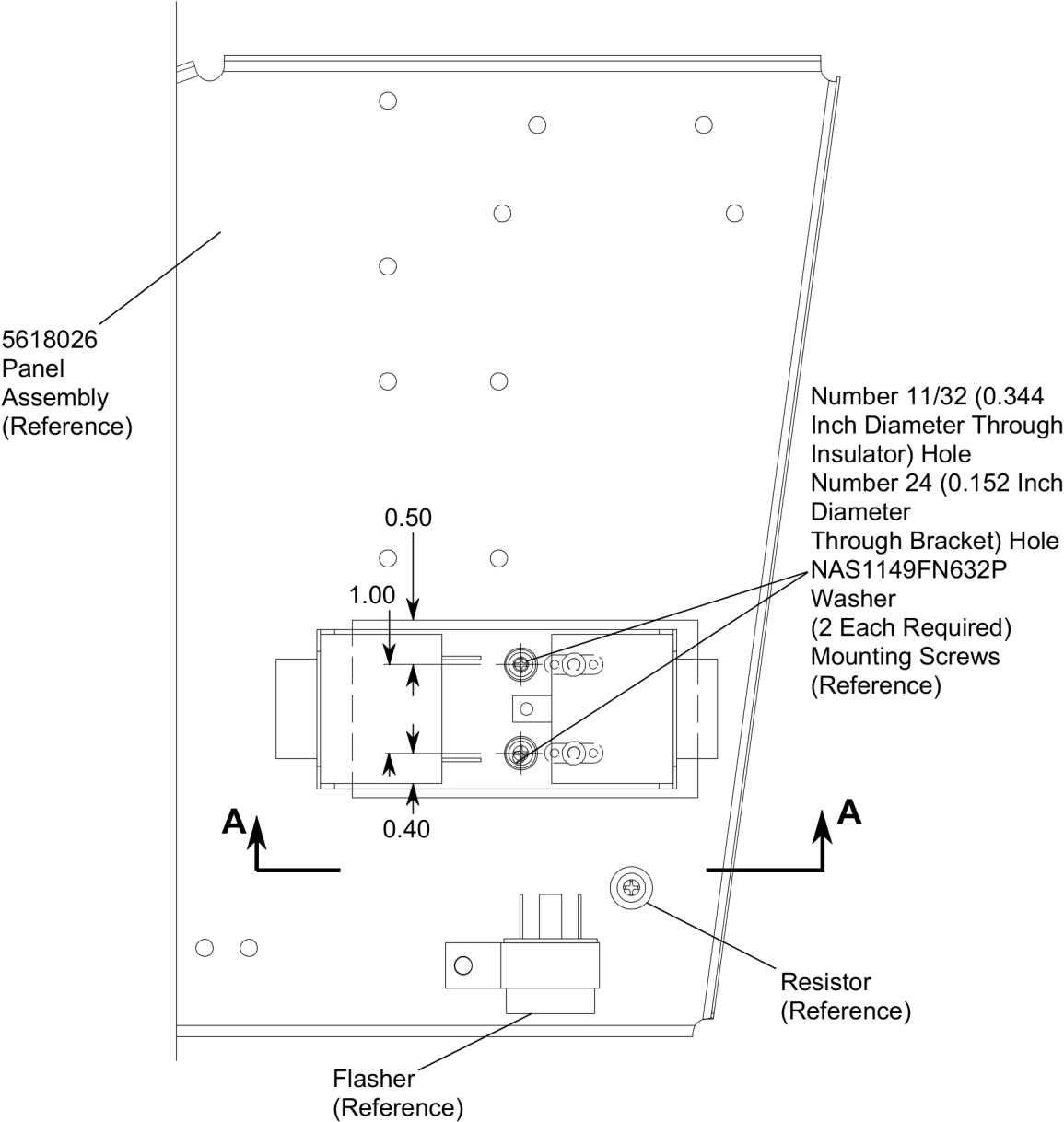
NOTE: For Stall Warning Horn Parts Refer to MEB-34-07: Stall Warning Horn Replacement.



5290604

Figure 2. Group A Configuration 1 (Sheet 2)

B22210



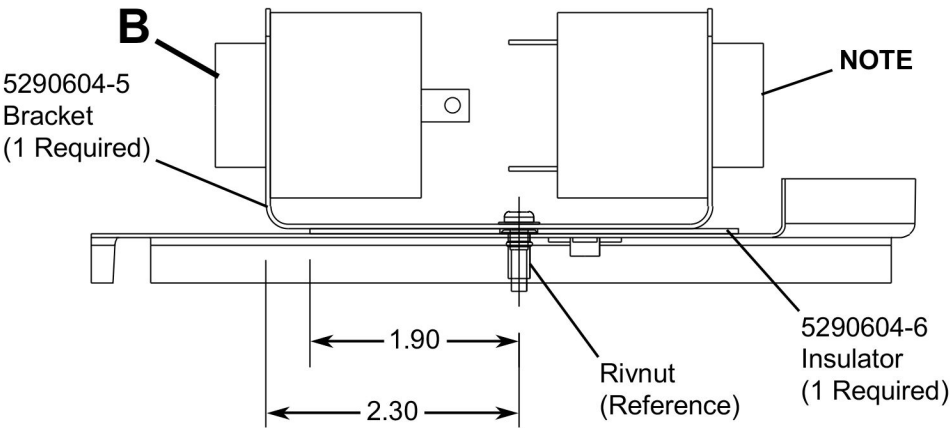
DETAIL A
View Looking Outboard
(Configuration 1 Group B)

NOTE: All Dimensions are in Inches.

5290604

Figure 3. Group B Configuration 1 (Sheet 1)

B22211



VIEW A-A
(View Looking Up)

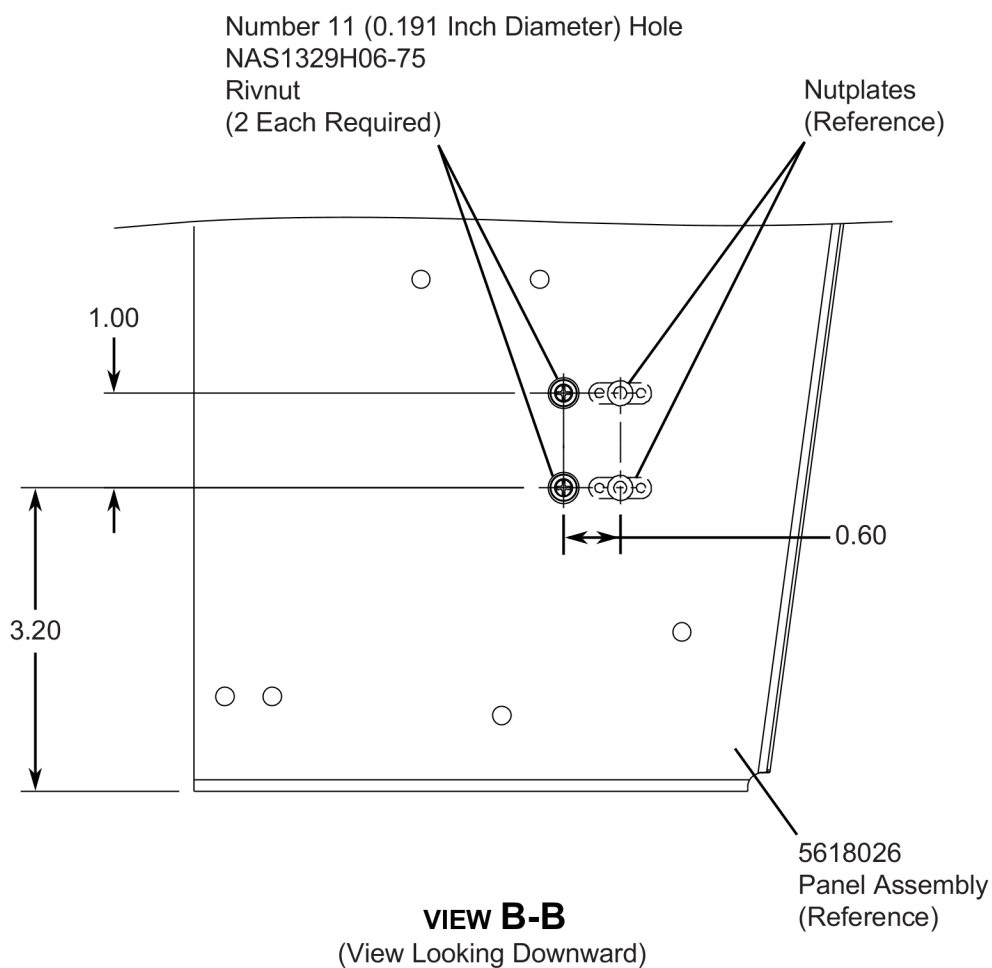
NOTE: For Stall Warning Horn Parts Refer to MEB-34-07: Stall Warning Horn Replacement.



5290604-2

Figure 3. Group B Configuration 1 (Sheet 2)

B22212

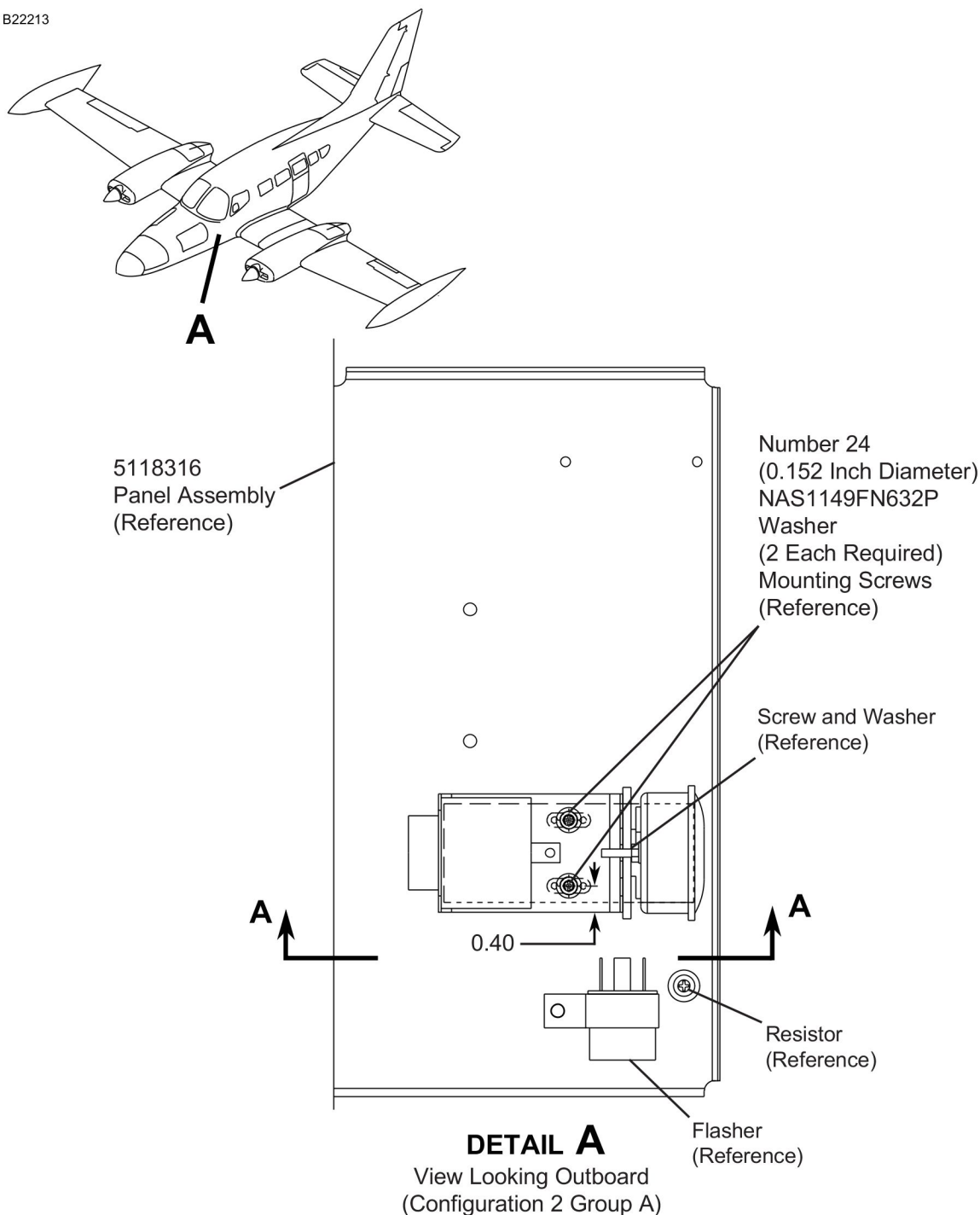


NOTE: All Dimensions are in Inches.

5290604-2

Figure 3. Group B Configuration 1 (Sheet 3)

B22213



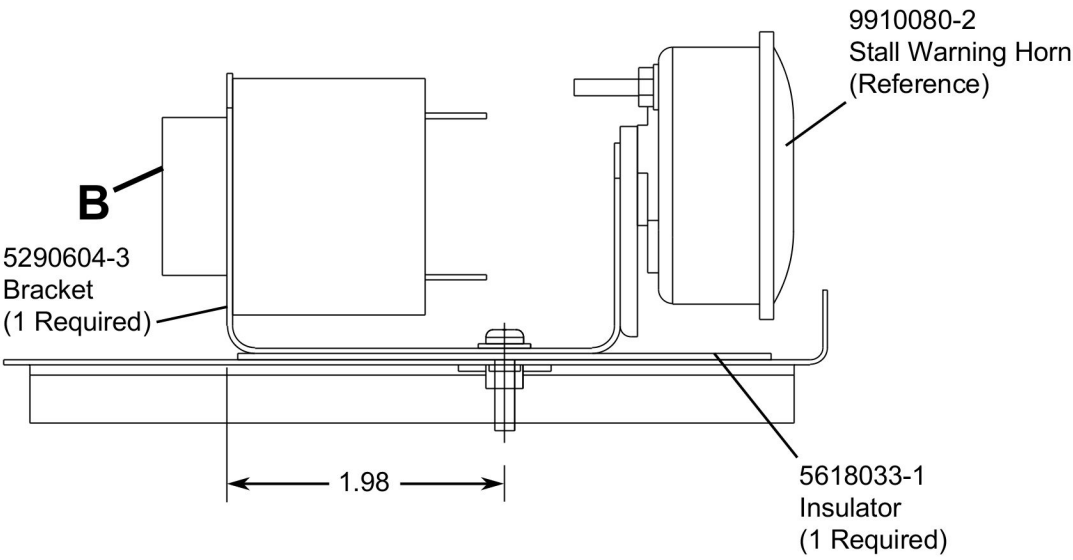
NOTE: The Aircraft Shown is a Cessna Model 402. Yet, the Location of the 9910080-5 Landing Gear Warning Horn and the 9910080-2 Stall Warning Horn are the Same Across All Models.

NOTE 1: All Dimensions are in Inches.

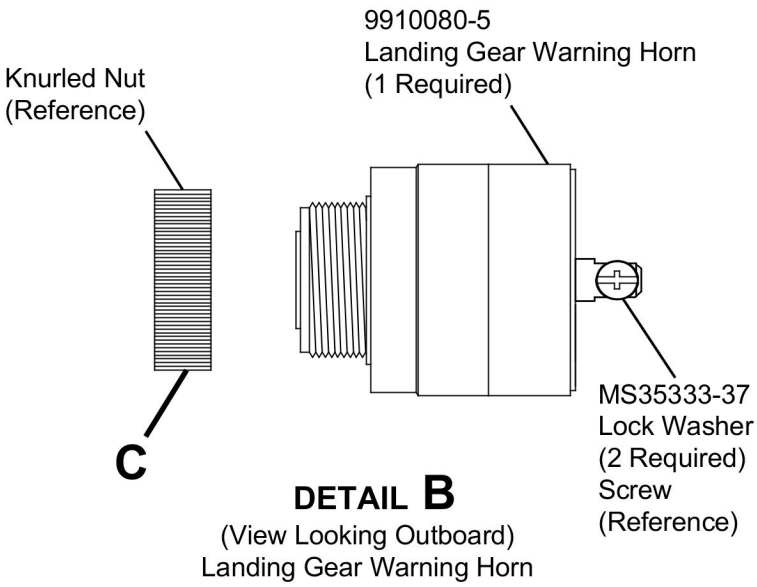
5290604-1

Figure 4. Group A Configuration 2 (Sheet 1)

B22214



VIEW A-A
(View Looking Up)



DETAIL B

(View Looking Outboard)
Landing Gear Warning Horn



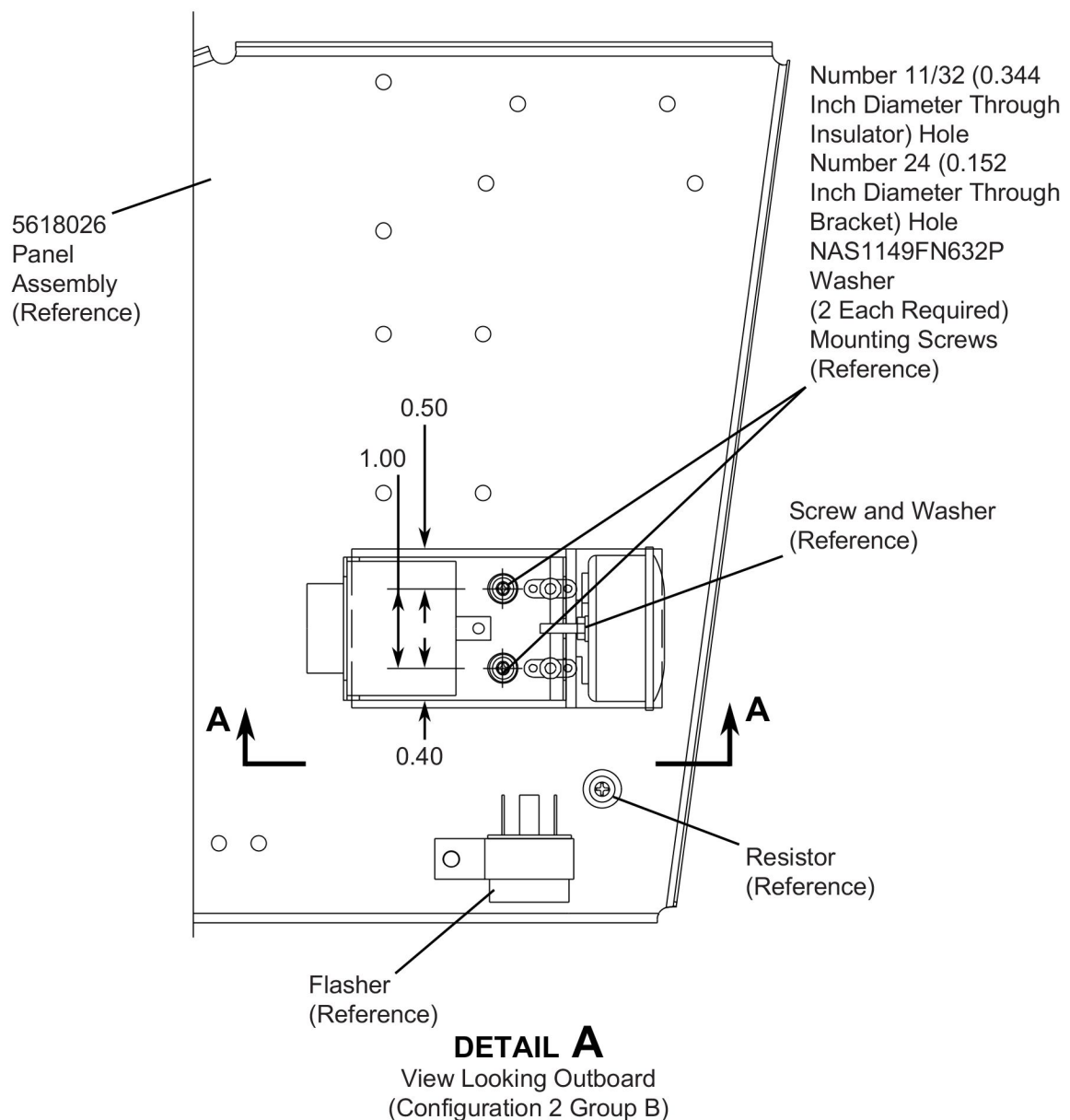
DETAIL C

Knurled Nut Install
Direction

5290604-1

Figure 4. Group A Configuration 2 (Sheet 2)

B22215

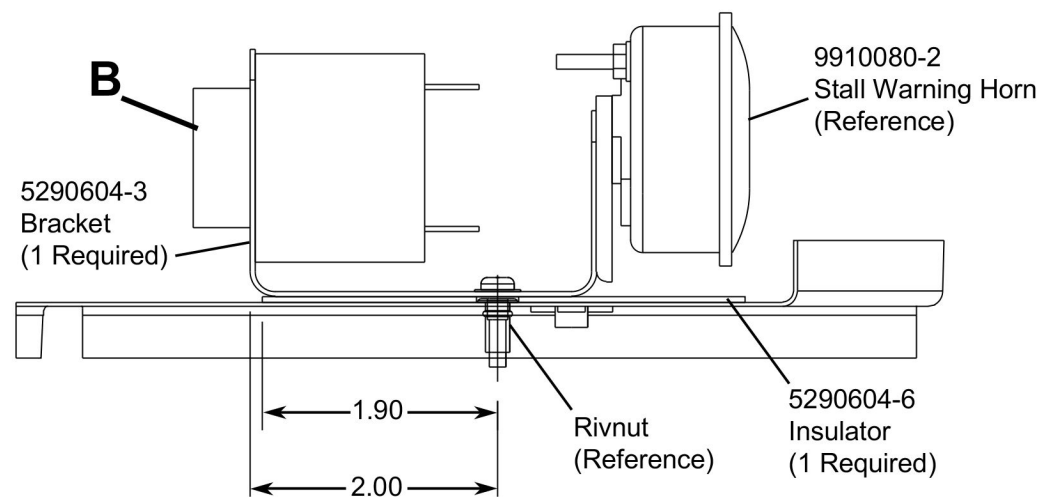


NOTE: All Dimensions are in Inches.

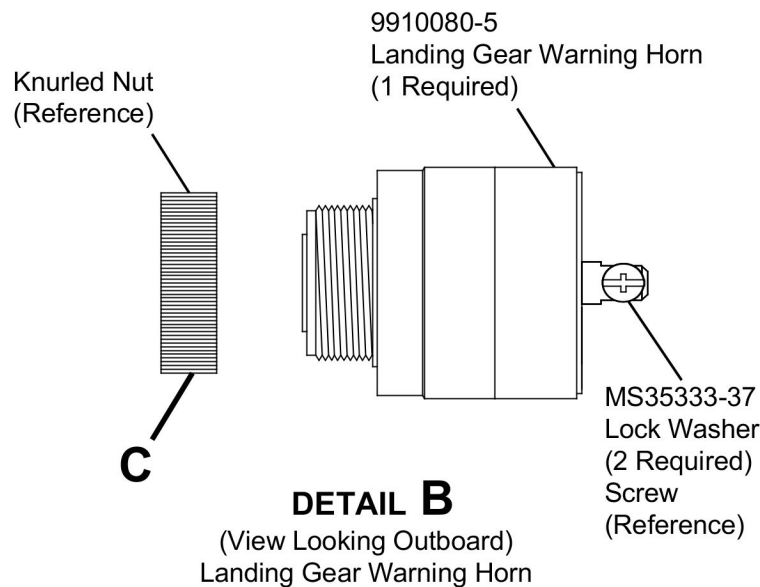
5290604-2

Figure 5. Group B Configuration 2 (Sheet 1)

B22216



VIEW A-A
(VIEW LOOKING UP)

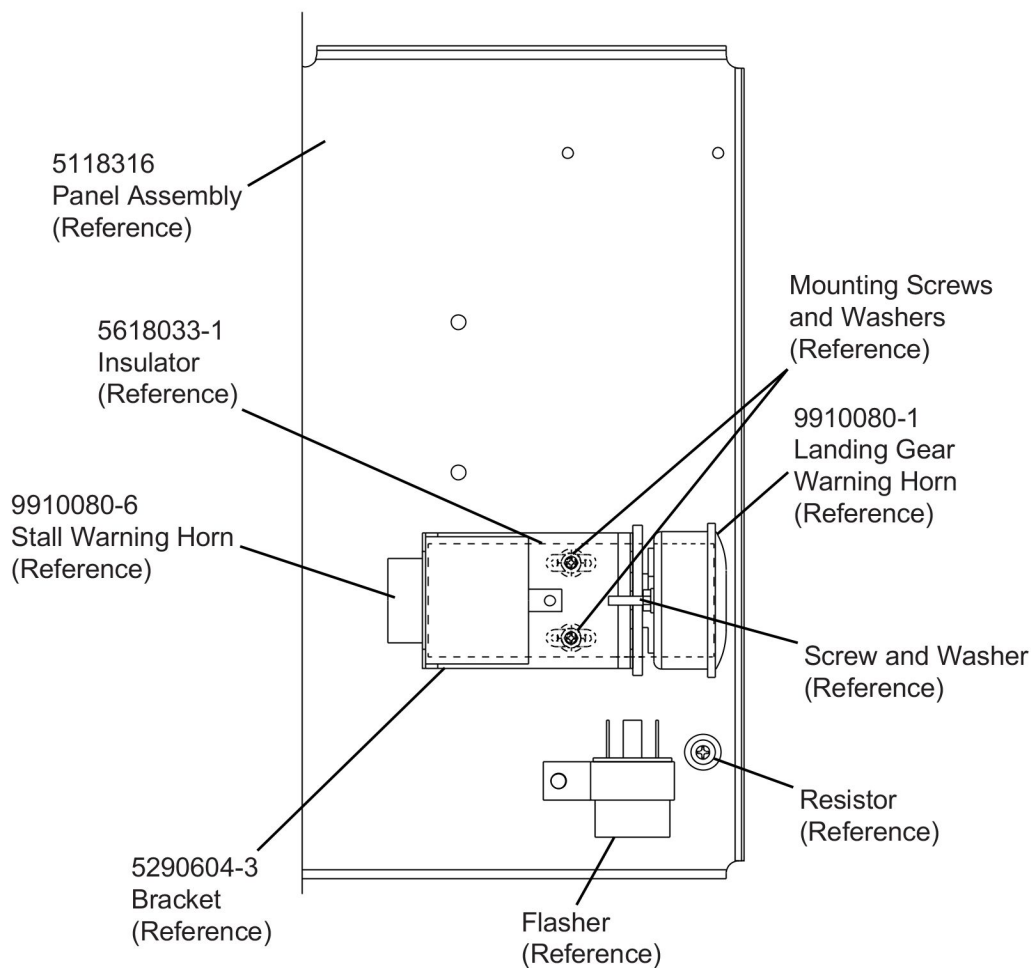
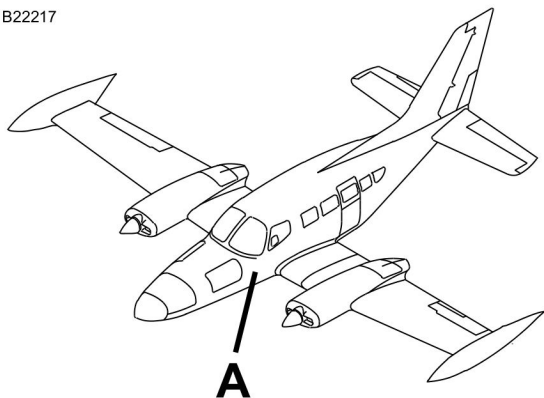


DETAIL C
Knurled Nut Install
Direction

5290604-2

Figure 5. Group B Configuration 2 (Sheet 2)

B22217

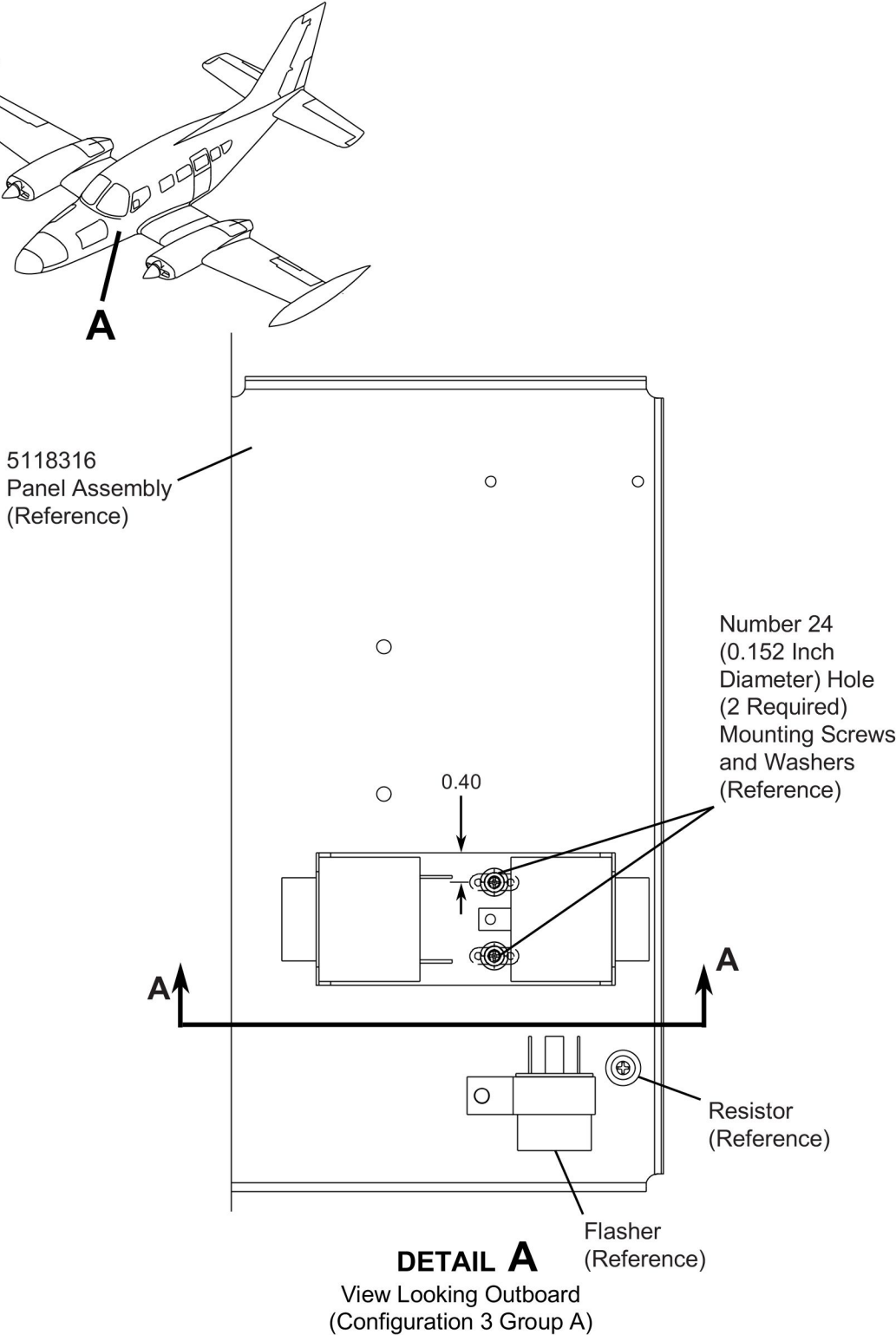


DETAIL A
View Looking Outboard
(Configuration 3 Group A)

5290604-1

Figure 6. Group A Before Configuration 3 Modification (Sheet 1)

B22218

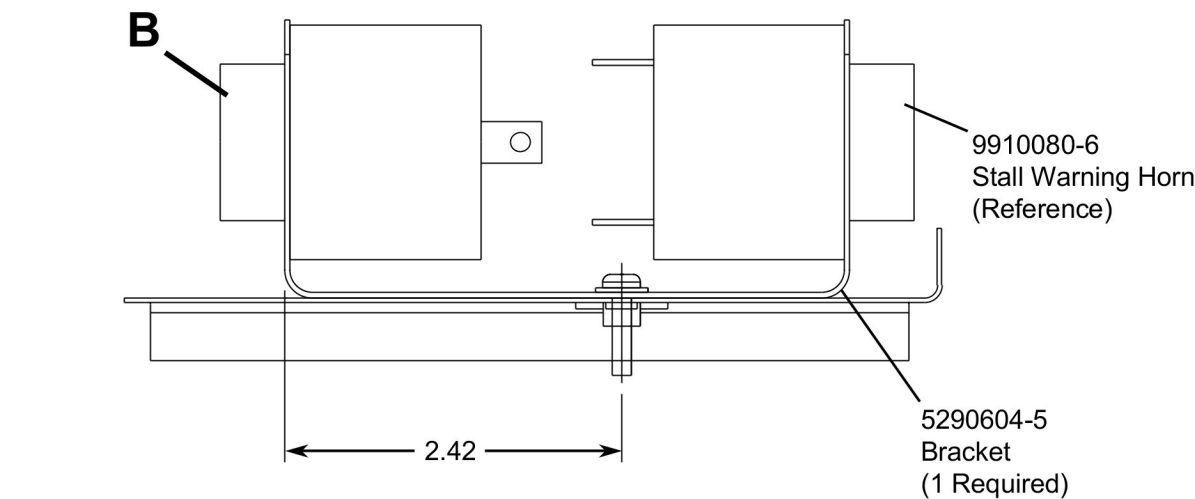


NOTE: All Dimensions are in Inches.

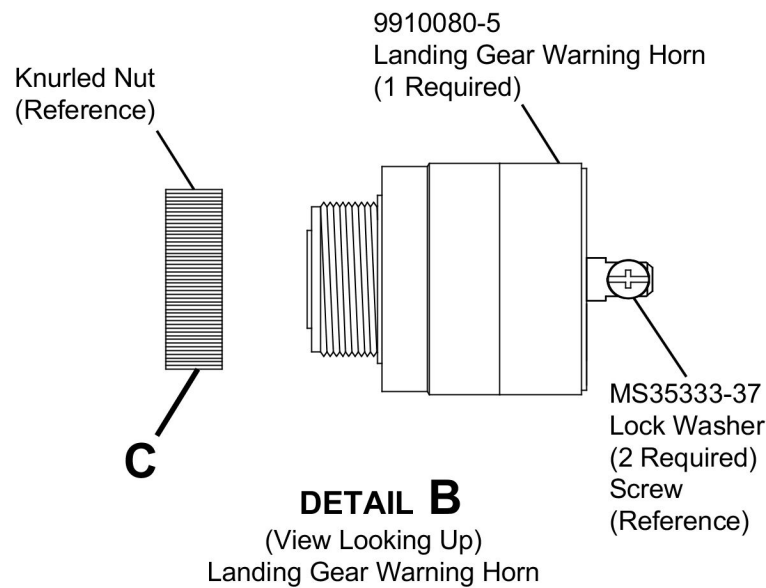
5290604-1

Figure 7. Group A Configuration 3 (Sheet 1)

B22219



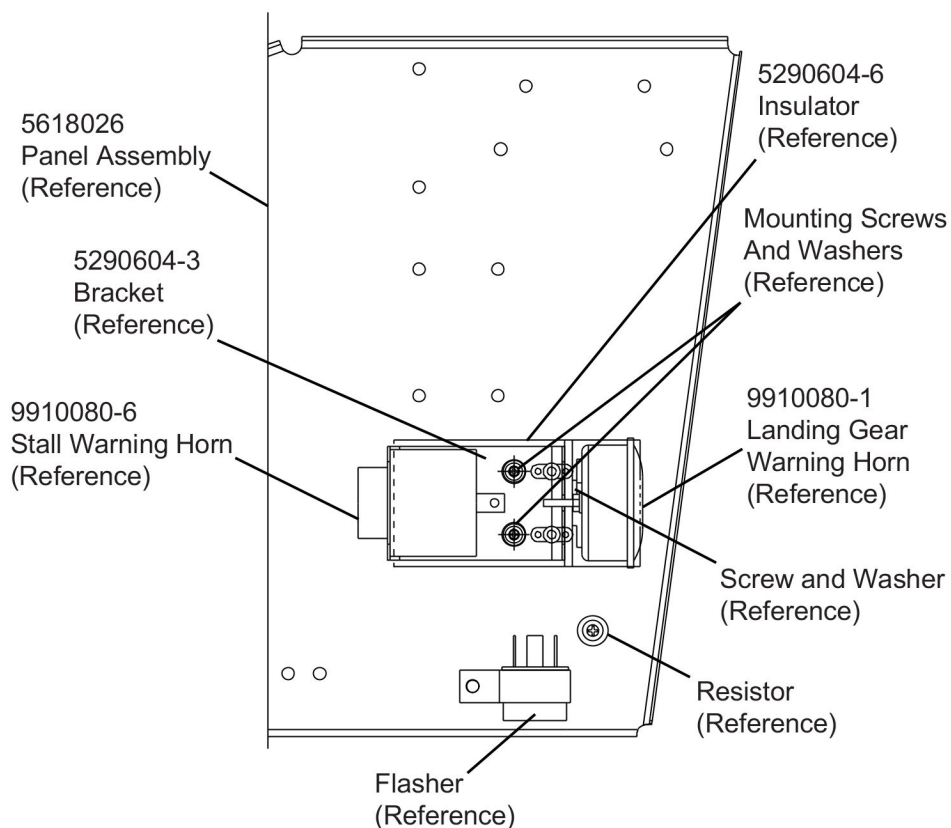
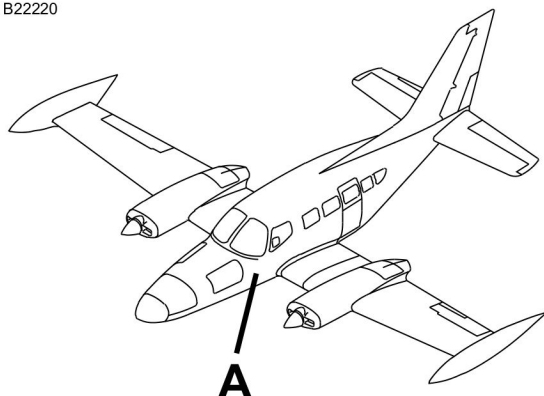
VIEW A-A
(View Looking Up)



5290604-1

Figure 7. Group A Configuration 3 (Sheet 2)

B22220

**DETAIL A**

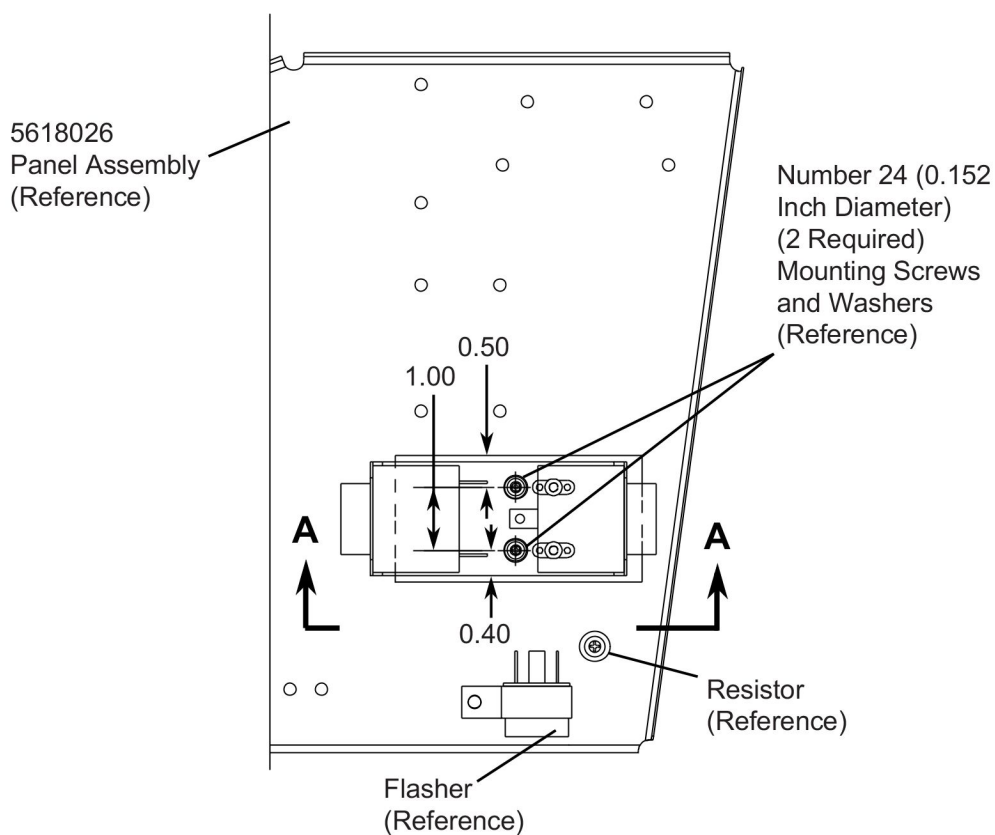
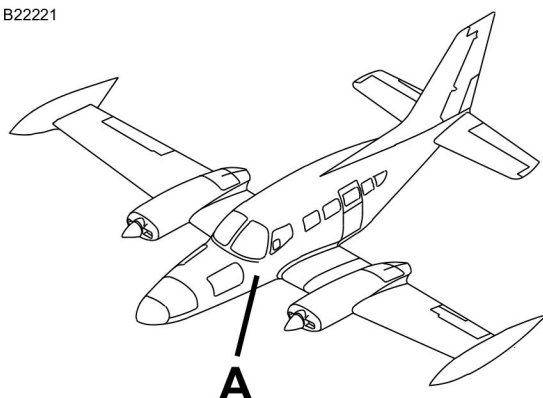
View Looking Outboard
(Configuration 3 Group B)

NOTE: The Aircraft Shown is a Cessna Model 402. Yet, The Location of the 9910080-1 Landing Gear Warning Horn and The 9910080-6 Stall Warning Horn are the Same Across All Models..

5290604-2

Figure 8. Group B Before Configuration 3 Modification (Sheet 1)

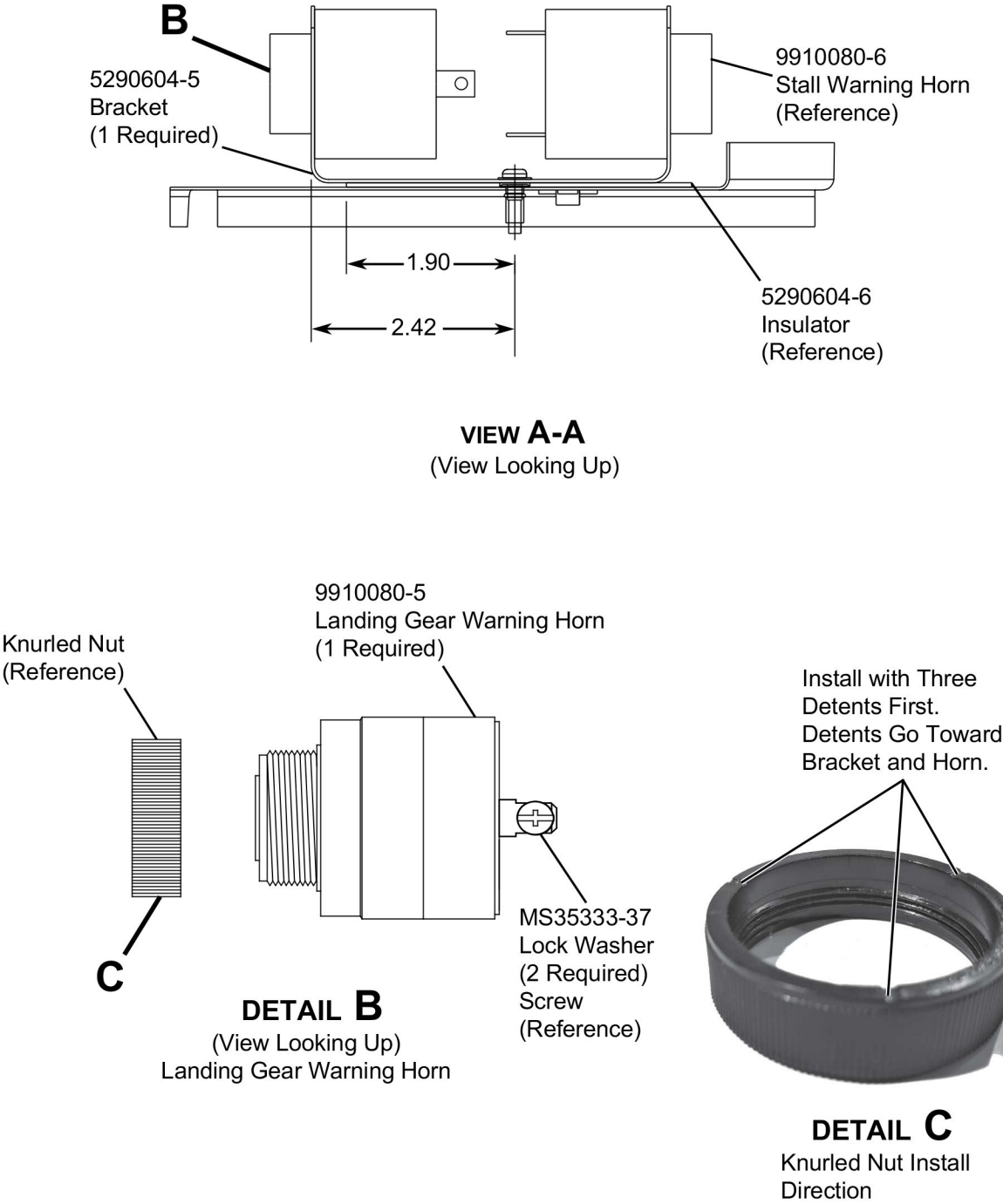
B22221

**DETAIL A**View Looking Outboard
(Configuration 3 Group B)**NOTE:** All Dimensions are in Inches.

5290604-2

Figure 9. Group B Configuration 3 (Sheet 1)

B22222



5290604-2

Figure 9. Group B Configuration 3 (Sheet 2)

MATERIAL INFORMATION

CONFIGURATION 1 GROUP A INSTALLATION order the kit below to install this modification.

NOTE: To install the stall warning horn in conjunction with the 9910080-5 Landing Gear Warning Horn, order the kit from MEB-34-07: Stall Warning Horn Replacement.

NEW P/N	QUAN-TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-0	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
NAS1149FN632P	2	Washer	N/A	Install
5290604-5	1	Bracket	5118331	Discard
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

CONFIGURATION 2 GROUP A INSTALLATION order the kit below to install this modification.

NEW P/N	QUAN-TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-1	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
NAS1149FN632P	2	Washer	N/A	Install
5290604-3	1	Bracket	5118331	Discard
5618033-1	1	Insulator	N/A	Install
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

CONFIGURATION 3 GROUP A INSTALLATION order the kit below to install this modification.

NEW P/N	QUAN-TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-2	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
5290604-5	1	Bracket	5290604-3	Discard
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

CONFIGURATION 1 GROUP B INSTALLATION order the kit below to install this modification.

NOTE: To install the stall warning horn in conjunction with the 9910080-5 Landing Gear Warning Horn, order the kit from MEB-34-07: Stall Warning Horn Replacement.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-3	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
NAS1149FN632P	2	Washer	N/A	Install
NAS1329H06-75	2	Rivnut	N/A	Install
5290604-5	1	Bracket	5118331	Discard
5290604-6	1	Insulator	5618033-1	Discard
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

CONFIGURATION 2 GROUP B INSTALLATION order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-4	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
NAS1149FN632P	2	Washer	N/A	Install
NAS1329H06-75	2	Rivnut	N/A	Install
5290604-3	1	Bracket	5118331	Discard
5290604-6	1	Insulator	5618033-1	Discard
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

CONFIGURATION 3 GROUP B INSTALLATION order the kit below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MEB-32-03-5	1	Kit , consisting of the following parts:		
MS35333-37	2	Lock Washer	N/A	Install
5290604-5	1	Bracket	5290604-3	Discard
9910080-5	1	Landing Gear Warning Horn	9910080-1	Discard
MEB-32-03	1	Instructions		

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

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

TITLE

LANDING GEAR - LANDING GEAR WARNING HORN

TO:

Cessna Model 401A, 401B, 402A, 402B, 402C, 404, 414, 414A, 421A, 421B, 421C Aircraft Owners

REASON

The original landing gear warning horn is no longer available. If the landing gear warning horn needs to be replaced, a new landing gear warning horn is available and will require an additional bracket for installation.

COMPLIANCE

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

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Modification	As Required
Test and Inspection	As Required

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
MEB-32-03-0	*	*
MEB-32-03-1	*	*
MEB-32-03-2	*	*
MEB-32-03-3	*	*
MEB-32-03-4	*	*
MEB-32-03-5	*	*

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

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

WARRANTY

None

October 11, 2022

MEB-32-03
Page 1 of 2

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