

TITLE

NAVIGATION - STALL WARNING HORN REPLACEMENT FOR CESSNA MODELS 180, 185, 188

EFFECTIVITY

MODEL	SERIAL NUMBERS
180F	18051184 thru 18051312
180G	18051313 thru 18051445
180H	18051446 thru 18051824
185	185-0001 thru 185-0237
185A	185-0238 thru 185-0512
185B	185-0513 thru 185-0653
185C	185-0654 thru 185-0776
185D	185-0777 thru 185-0967
185E/A185E	185-0968 thru 185-1149
A185E	185-1150 thru 185-1197
A185F	1200
A188B	18803309 thru 18803973, 18800967T thru 18803973T
T188C	T18802839T, T18803307T, T18803308T, T18803325T thru T18803974T
A-A188B	A-A1880001 thru A-A1880034

REASON

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

DESCRIPTION

This service document provides parts and instructions to remove the original stall warning horn and bracket. Then install the new stall warning horn with a new bracket.

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.

January 5, 2023

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- 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

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

Negligible

REFERENCES

Cessna Model 180 and 185 (1969-1980) Service Manual

Cessna Model 180 and 185 (1981-1985) Service Manual

Cessna Model 188 and T188 Series (1966-1984) Service Manual

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

PUBLICATIONS AFFECTED

Cessna Model 180 and 185 (1961-1973) Illustrated Parts Catalog

Cessna Model 180 and 185 (1974-1985) Parts Catalog

Cessna Model 188 (1976-1984) 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 of the stall warning horn.

Cessna Model 180 and 185

- Cessna Model 180 and 185 (1969-1980) Service Manual, Section 3, Fuselage - Seats, Pilot and Copilot - Removal and Installation.
- Cessna Model 180 and 185 (1961-1973) Illustrated Parts Catalog, Figure 68A, Instrument Panel Equipment Installation.

Cessna Model 188

- Cessna Model 188 and T188 Series (1966-1984) Service Manual, Section 3, Fuselage - Seats, Removal and Installation.
- Cessna Model 188 and T188 Series (1966-1984) Service Manual, Section 16, Electrical Systems - Stall Warning System.

2. Depending upon the customer's airplane model go to the steps as follows:

- A. For all Cessna Model 180 and 185, go to Step 3.
B. For all Cessna Model 188, go to Step 5.

CESSNA MODEL 180 AND 185

3. (Refer to Figure 1, Sheet 1.) Remove the 1670056-7 Stall Warning Horn as follows:
- A. Remove the copilot seat.
B. Remove and keep the two mounting screws from the 1670056-7 Stall Warning Horn.
NOTE: The kept mounting screws will be used for installation.
C. Remove the nuts and washers from the studs of the 1670056-7 Stall Warning Horn.
D. Disconnect the electrical wiring from the 1670056-7 Stall Warning Horn.
E. Discard the 1670056-7 Stall Warning Horn and the 0713738-3 Bracket Assembly.

4. (Refer to Figure 2, Sheets 1 and 2.) Install the 9910080-5 Stall Warning Horn as follows:

- A. Install the 9910080-5 Stall Warning Horn into the 0790604-2 Bracket Assembly.
B. 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.

- C. Install the 0790604-2 Bracket Assembly onto the glovebox with the two kept mounting screws.
D. Install the electrical wiring onto the 9910080-5 Stall Warning Horn.

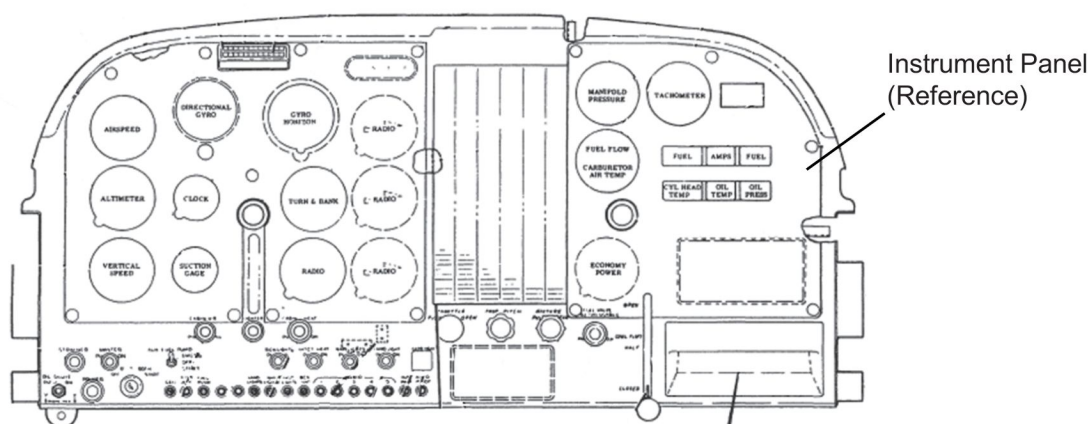
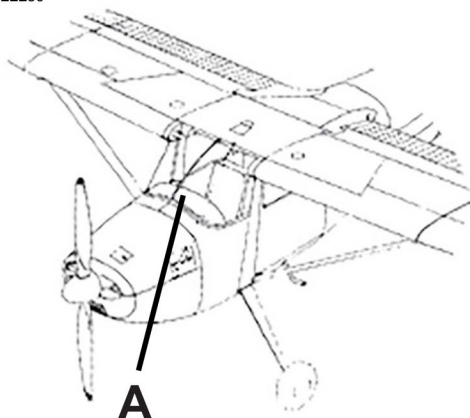
NOTE: The screws that attach the wiring are supplied with the 9910080-5 Stall Warning Horn.

- E. Install the copilot seat.
F. Go to Step 7.

CESSNA MODEL 188

5. (Refer to Figure 3, Sheet 1.) Remove the 1670056-6/-7 Stall Warning Horn as follows:
 - A. Remove the pilot seat and any additional interior as necessary.
 - B. Remove and keep the two mounting screws from the 1670056-6/-7 Stall Warning Horn.
NOTE: The kept mounting screws will be used for installation.
 - C. Remove the nuts and washers from the studs of the 1670056-6/-7 Stall Warning Horn.
 - D. Disconnect the electrical wiring from the 1670056-6/-7 Stall Warning Horn.
 - E. Discard the 1670056-6/-7 Stall Warning Horn and the 0713738-3 Bracket Assembly.
6. (Refer to Figure 4, Sheets 1 and 2.) Install the 9910080-5 Stall Warning Horn as follows:
 - A. Install the 9910080-5 Stall Warning Horn into the 0790604-2 Bracket Assembly.
 - B. 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.
 - C. Install the 0790604-2 Bracket Assembly onto the instrument panel with the two kept mounting screws.
 - D. Install the electrical wiring onto the 9910080-5 Stall Warning Horn.
NOTE: The screws that attach the wiring are supplied with the 9910080-5 Stall Warning Horn.
 - E. Install the pilot seat and any interior that was removed for this bulletin.
7. Remove the maintenance warning tags and connect the airplane battery.
8. Put the master power switch to the ON position.
9. On the left wing, lift the stall vane's tab until the 9910080-5 Stall Warning Horn emits sound.
10. Put the master power switch to the OFF position.
11. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

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DETAIL A

View Looking Forward at Instrument Panel

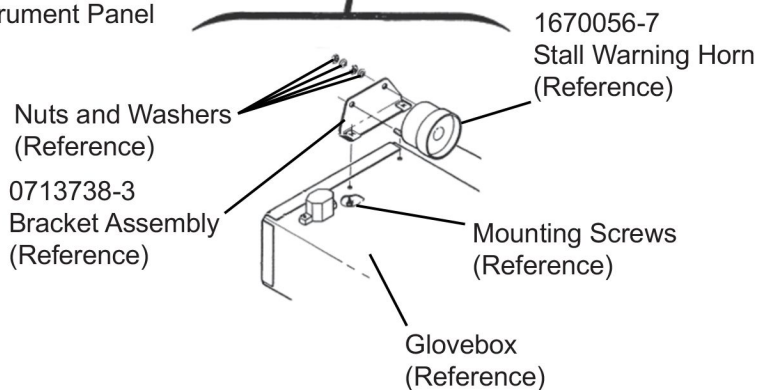
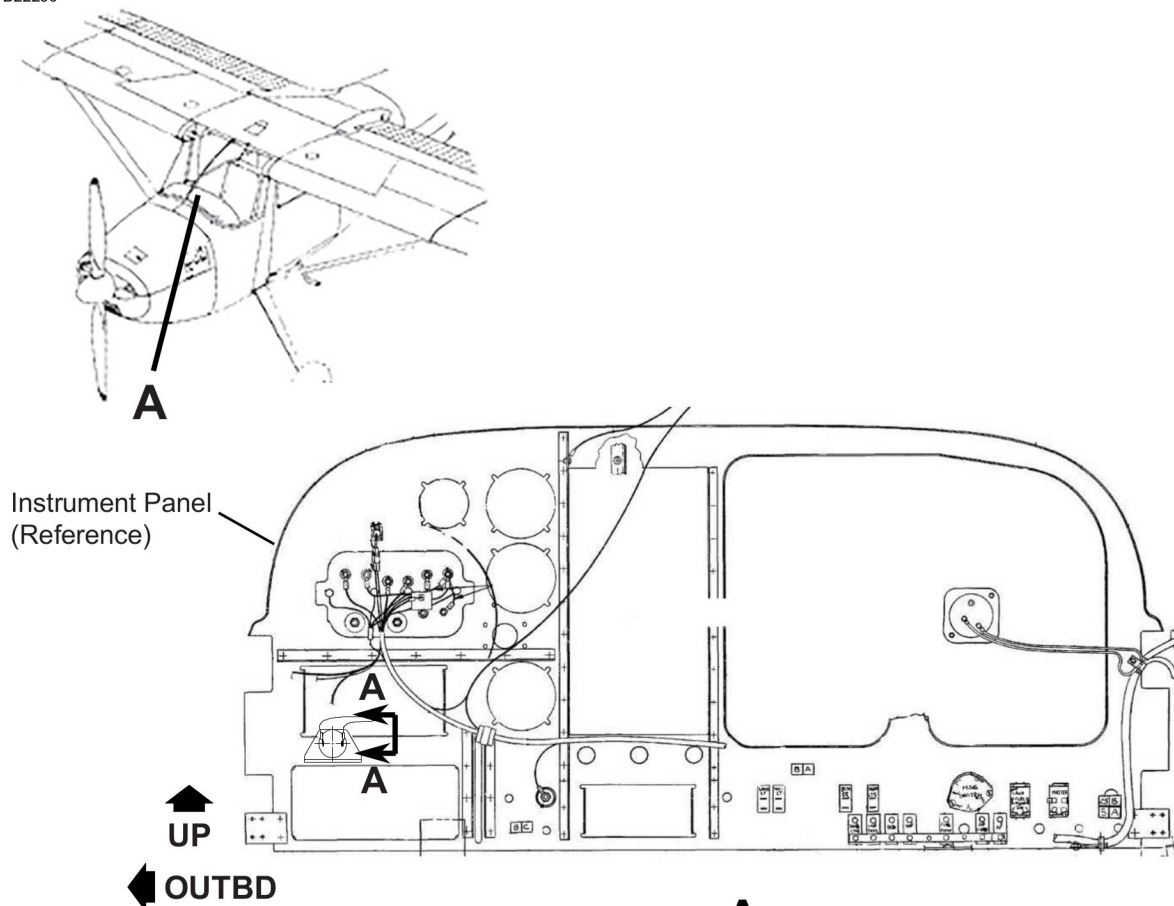


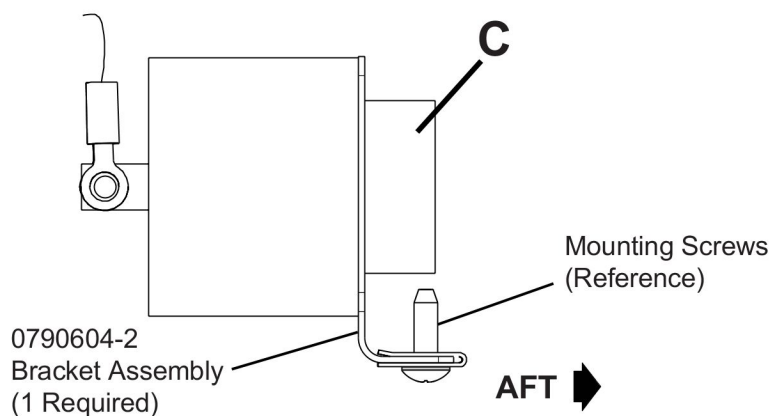
Figure 1. Cessna Model 180 and 185 Before Modification (Sheet 1)

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DETAIL A

View Looking Aft at Instrument Panel



VIEW A-A

View Looking Outboard at Stall Warning Horn

Figure 2. Cessna Model 180 and 185 After Modification (Sheet 1)

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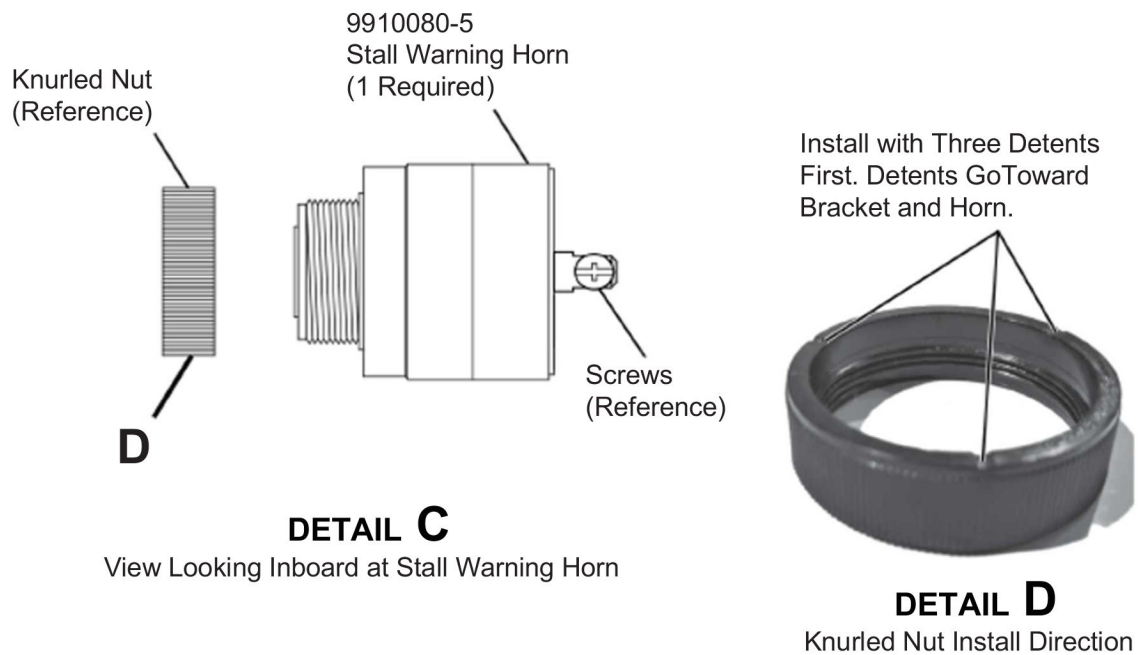
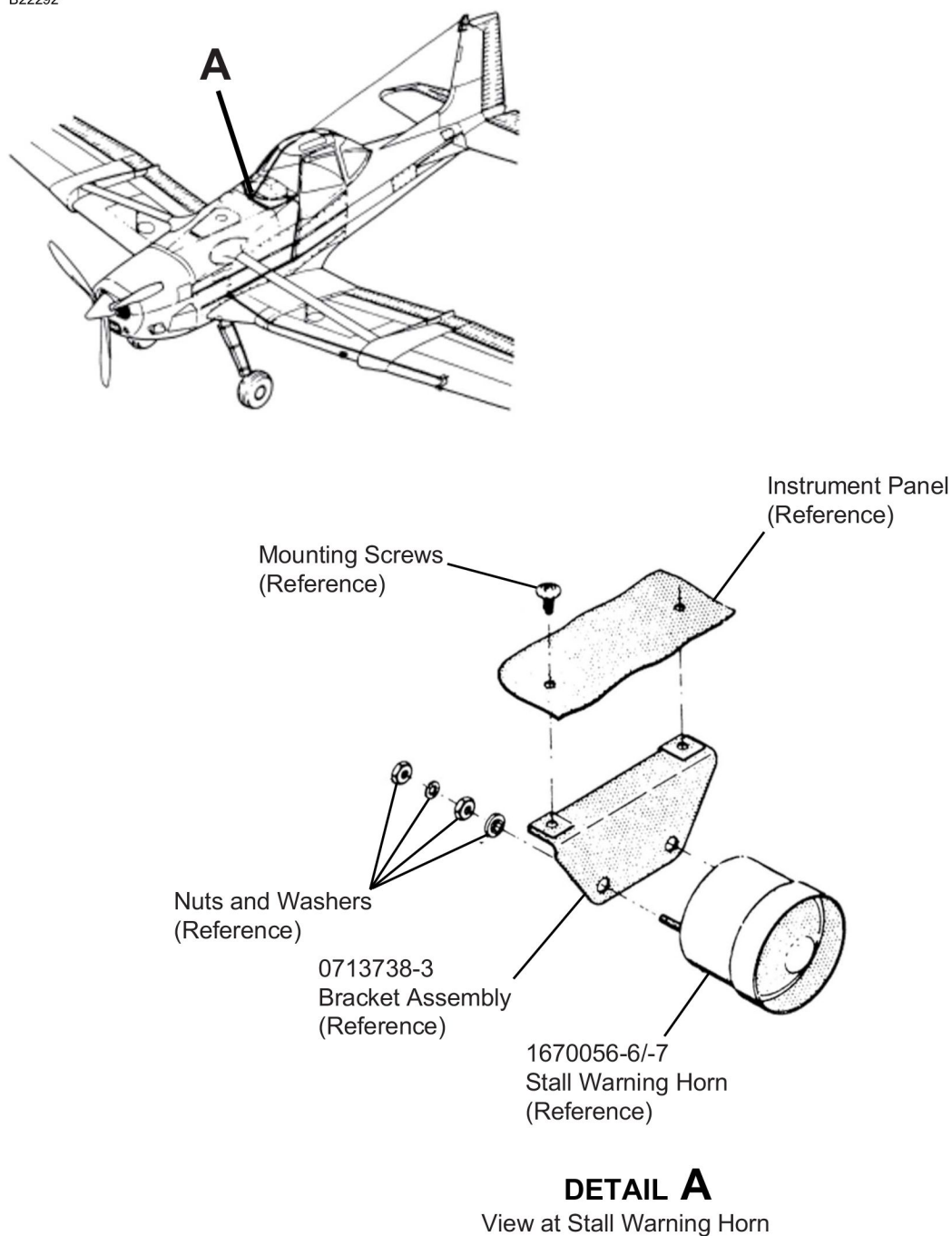


Figure 2. Cessna Model 180 and 185 After Modification (Sheet 2)

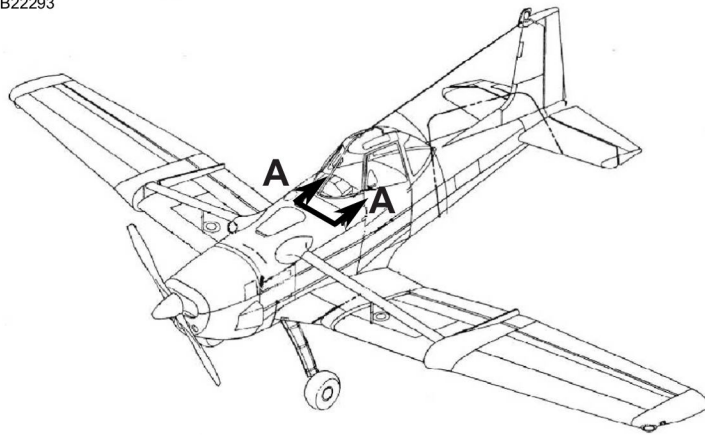
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NOTE: The Stall Warning Horn Assembly is located Forward of the Instrument Panel

Figure 3. Cessna Model 188 Before Modification (Sheet 1)

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Instrument Panel
(Reference)

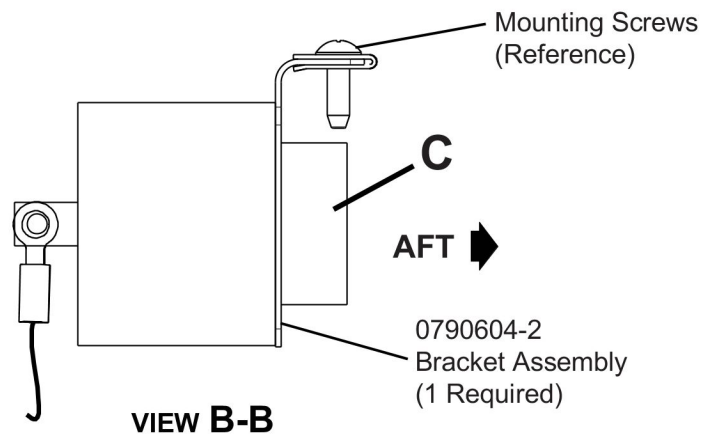
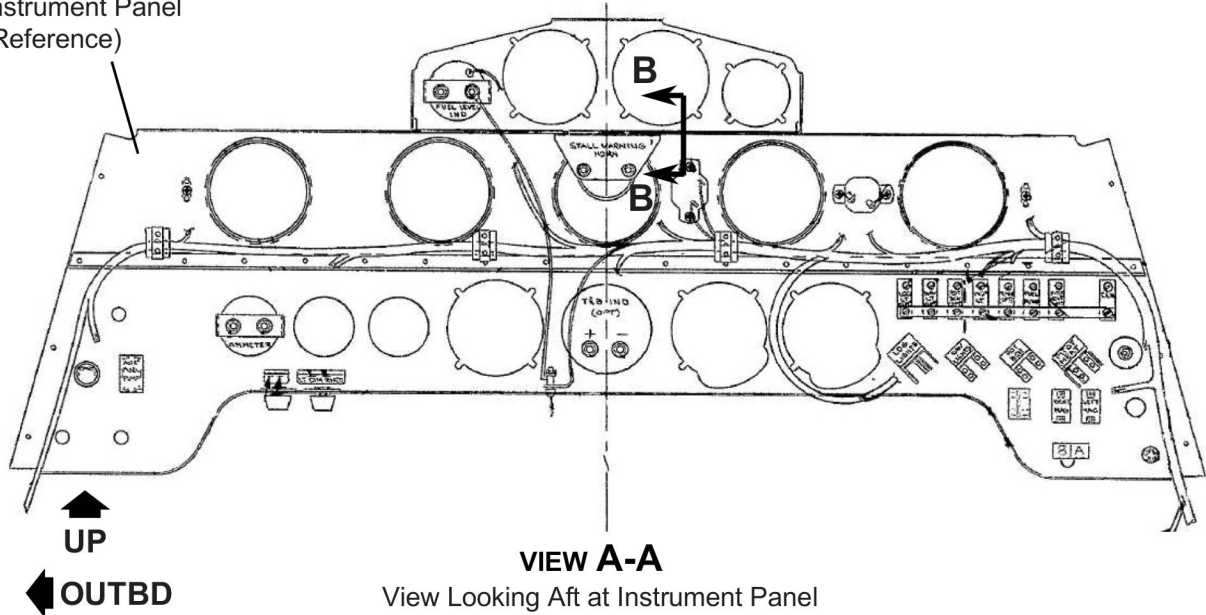
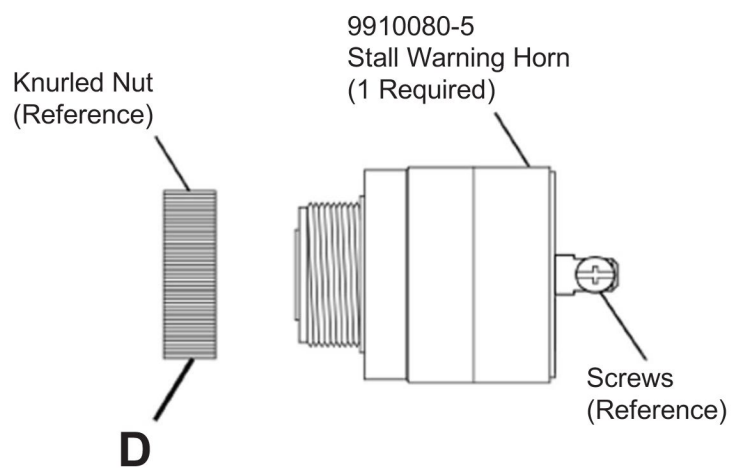


Figure 4. Cessna Model 188 After Modification (Sheet 1)

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**DETAIL C**

View Looking Inboard at Stall Warning Horn

**DETAIL D**

Knurled Nut Install Direction

Figure 4. Cessna Model 188 After Modification (Sheet 2)

MATERIAL INFORMATION

Order the parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
0790604-2	1	Bracket Assembly	0713738-3	Discard
9910080-5	1	Stall Warning Horn	1670056-6 1670056-7	Discard

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

TITLE

NAVIGATION - STALL WARNING HORN REPLACEMENT FOR CESSNA MODELS 180, 185, 188

TO:

Cessna Models 180F, 180G, 180H, 185, 185A, 185B, 185C, 185D, 185E/A185E, A185E, A185F, A188B, T188C, and A-A188B Aircraft Owners

REASON

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

COMPLIANCE

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

LABOR HOURS

For planning purposes only:

WORK PHASE

Modification

LABOR-HOURS

As Required

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
0790604-2	*	*
9910080-5	*	*

* 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

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.

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