

TITLE

NAVIGATION - STALL WARNING HORN REPLACEMENT

EFFECTIVITY

MODEL	SERIAL NUMBERS
182S	18280001 thru 18280944
182T	18280945 thru 18282449, 18282451 thru 18283115
T182T	T18208001 thru T18209100
206H	20608001 thru 20608353
T206H	T20608001 thru T20609250, T20609252 thru T20609616

The equivalent of this service document has been incorporated on airplanes 182T: 18282450, and 18283116 and On, and T206H: T20609251 and T20609617 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 and will require an additional bracket for installation. For some airplanes, addition of a resistor and diodes will be necessary to complete the initial installation.

DESCRIPTION

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

NOTE: Airplanes 182T: 18283062 thru 18283115 and T206H: T20609560 thru T20609616 will need additional wiring modification for the initial installation. The additional wiring will install diodes and a resistor.

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 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 bulletin.

NAME	NUMBER	MANUFACTURER	USE
Heat Shrinkable Tubing	M233053/5-X-X	Commercially Available	To protect wiring and components.
Wire	M81044/12-22-9	Commercially Available	If needed to install diode and resistor.

TOOLING

No specialized tooling is required to complete this service document.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Model 182S/182T/T182T Maintenance Manual

Model 182S/182T/T182T Wiring Diagram Manual

Model 206H/T206H Maintenance Manual

Model 206H/T206H Wiring Diagram Manual

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

PUBLICATIONS AFFECTED

Model 182S/182T/T182T Maintenance Manual

Model 182S/182T/T182T Illustrated Parts Catalog

Model 182S/182T/T182T Wiring Diagram Manual

Model 206H/T206H Maintenance Manual

Model 206H/T206H Illustrated Parts Catalog

Model 206H/T206H Wiring Diagram Manual

ACCOMPLISHMENT INSTRUCTIONS

NOTE: Airplanes 182T: 18283062 thru 18283115 and T206H: T20609560 thru T20609616 will need additional wiring modification for the initial installation. The additional wiring will install diodes and a resistor.

Accomplishment Instructions Table

Airplanes	Complete the Accomplishment Instruction Steps for	
182T: 18283062 thru 18283115 T206H: T20609560 thru T20609616	Stall Warning Horn Installation	G1000 NXI Wiring Modification
All other airplanes	Stall Warning Horn Installation	No additional Wiring Modification

STALL WARNING HORN INSTALLATION

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 left lower wing root fairing.

NOTE: Only the lower straight wing root fairing will need to be removed. The wrap around and top fairing will not need to be removed.
3. Remove headliner to access stall warning horn assembly. (Refer to Chapter 25, Interior Upholstery - Maintenance Practices.)
4. (Refer to Figure 2, Sheet 1.) Disconnect wiring connector P1 from JC030.
5. (Refer to Figure 1, Sheets 1 and 2.) Remove two MS21083N08 Nuts and NAS1149FN816P Washers that attach the stall warning horn assembly to the bulkhead. Keep the nuts and washers.
6. (Refer to Figure 2, Sheet 2.) Remove the stall warning horn from airplane.
7. (Refer to Figure 1, Sheets 1 and 2.) Install the 0718032-1 Bracket as follows:

NOTE: The bracket will be installed with the short leg fastened to the bulkhead. The long leg will be above the short leg and extend inboard from the bulkhead.

 - A. Position and center the 0718032-1 Bracket over the two holes in the bulkhead where the stall warning horn was removed.

NOTE: Position the bracket so there is a minimum of 0.38-inch edge distance for the hole locations.

- B. Match drill two 11/64 (0.171-Inch Diameter) holes in the 0718032-1 Bracket.

NOTE: The removed horn can be disassembled and the two holes from the outer plastic housing can be used as a guide to identify the hole locations. Be sure to center the holes and maintain minimum of 0.38-inch edge distance.

- C. Debur the drilled holes.

- D. Install the 0718032-1 Bracket with two M35206-245 Screws, the kept washers and nuts.

8. (Refer to Figure 1, Sheets 1 thru 3.) Install the SC648NDR Horn as follows:

NOTE: The SC648NDR Horn is part of the 1270560-6 (model 206 series airplanes) and 0770560-7 (model 182 series airplanes) Stall Warning Horn Kits that includes the wires and connector.

- A. Remove the knurled nut from the SC648NDR Horn.
B. Put the SC648NDR Horn into the 0718032-1 Bracket.
C. Install the knurled nut on the SC648NDR Horn and hand tighten.

NOTE: (Refer to Figure 1, Sheet 3.) 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.

9. (Refer to Figure 2, Sheet 1.) Connect wiring connector PC030 to JC030.

G1000 NXI WIRING MODIFICATION

10. (Refer to Figure 2, Sheet 2.) Airplanes listed, do the wiring modification as follows:

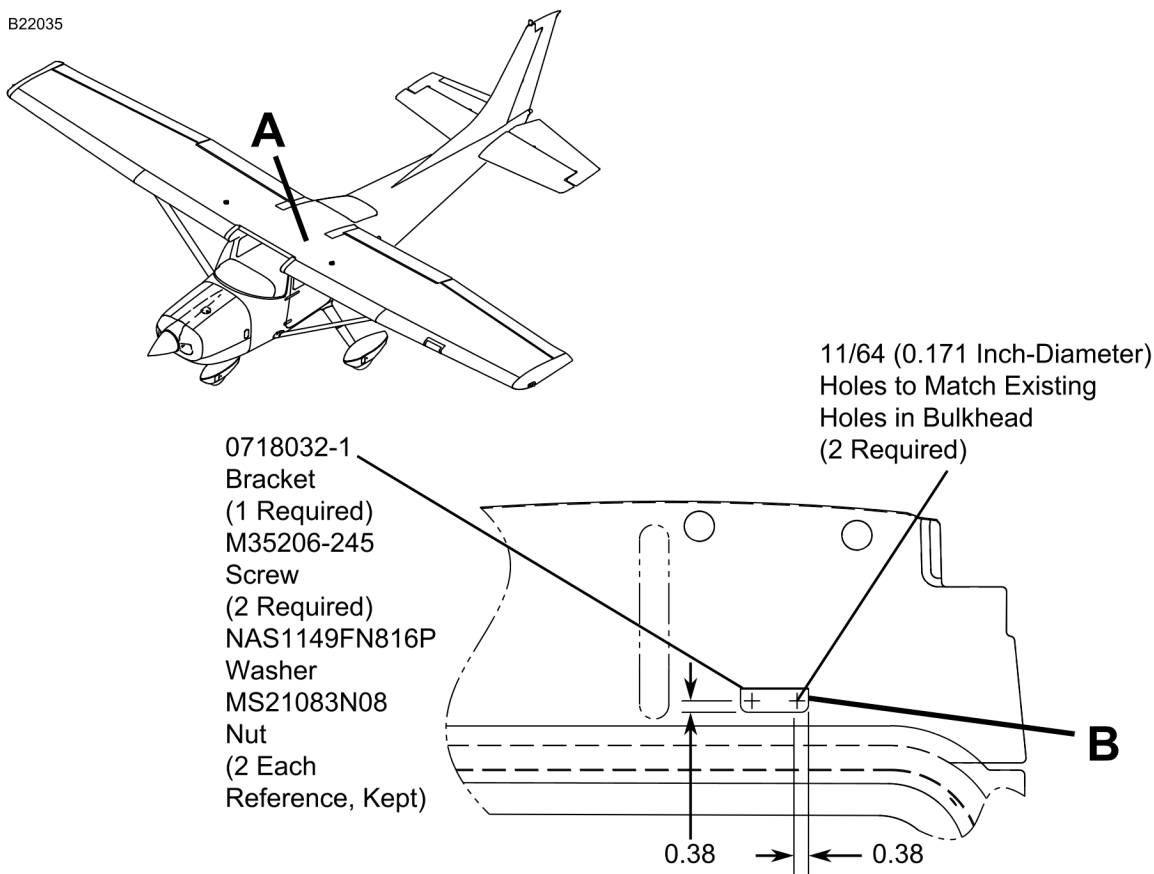
- Model 182T: Serial Numbers: 18283062 thru 18283115
- Model T206H: Serial Numbers: T20609560 thru T20609616

- A. Install two S3106-4 2 Diode Assemblies and one S3105-10 Resistor Assembly with M81824/1-1 Splices, S1636-1 Contact Socket, and M39029/58-360 Contact Pin. (Refer to the applicable Model Wiring Diagram Manual, Chapter 20, Splices and Terminals - Maintenance Practices.)

NOTE: The diode and resistor assemblies have sufficient leads to allow butt-splice into the aircraft wiring. Use best shop practices for access, assembly, protection with heat shrinkable tubing, and wire-tie to secure wire bundles after the modification.

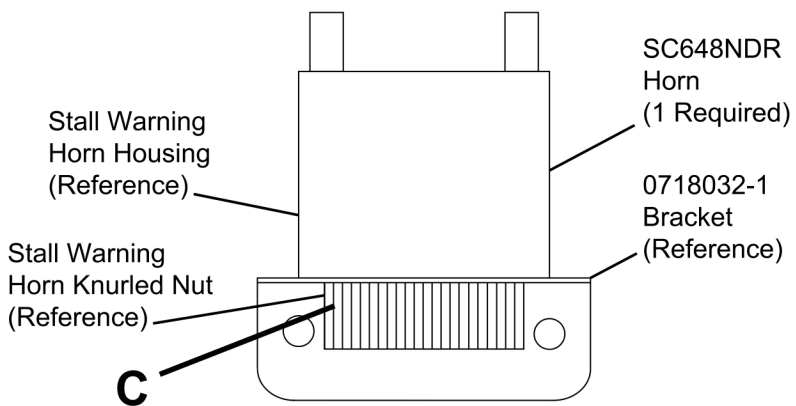
11. Remove the maintenance warning tags and connect the airplane battery.
12. Put the BAT MASTER switch to the ON position.
13. Move the stall detector vane upward and make sure that the stall warning horn sounds. Release the stall detector vane.
14. Put the BAT MASTER switch to the OFF position.
15. Install the headliner. (Refer to Chapter 25, Interior Upholstery - Maintenance Practices.)
16. Install the left lower wing root fairing.
17. 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 Outboard at Left Side



DETAIL B

Looking Outboard at
 Stall Warning Horn

NOTE: Holes to Maintain 0.38 Minimum Edge Distance.

NOTE 1: All Dimensions Shown are in Inches.

0710T1001
 A0718015
 B0710700

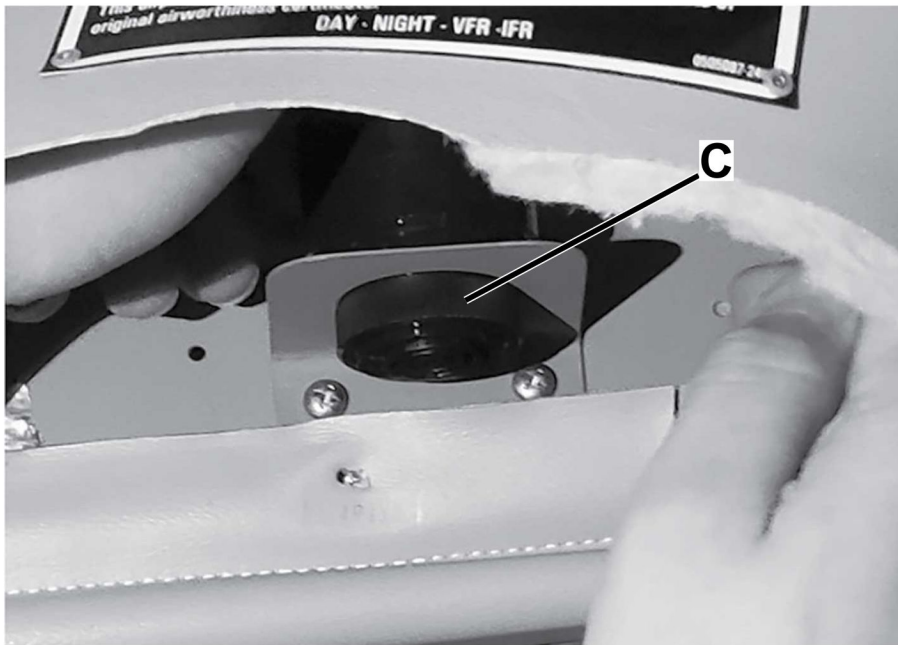
Figure 1. Warning Horn Modification (Sheet 1)

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DETAIL A

Before Modification, Old Horn



DETAIL A

After Modification, New Horn

Figure 1. Warning Horn Modification (Sheet 2)

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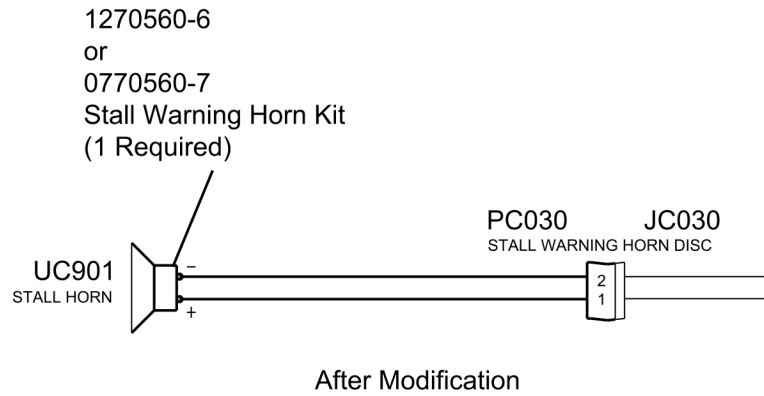
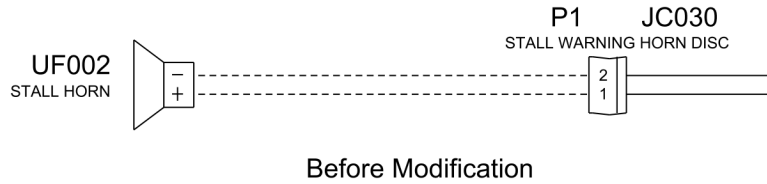
Install with three detents first.
Detents go toward bracket and horn.



DETAIL C
Knurled Nut Install Direction

Figure 1. Warning Horn Modification (Sheet 3)

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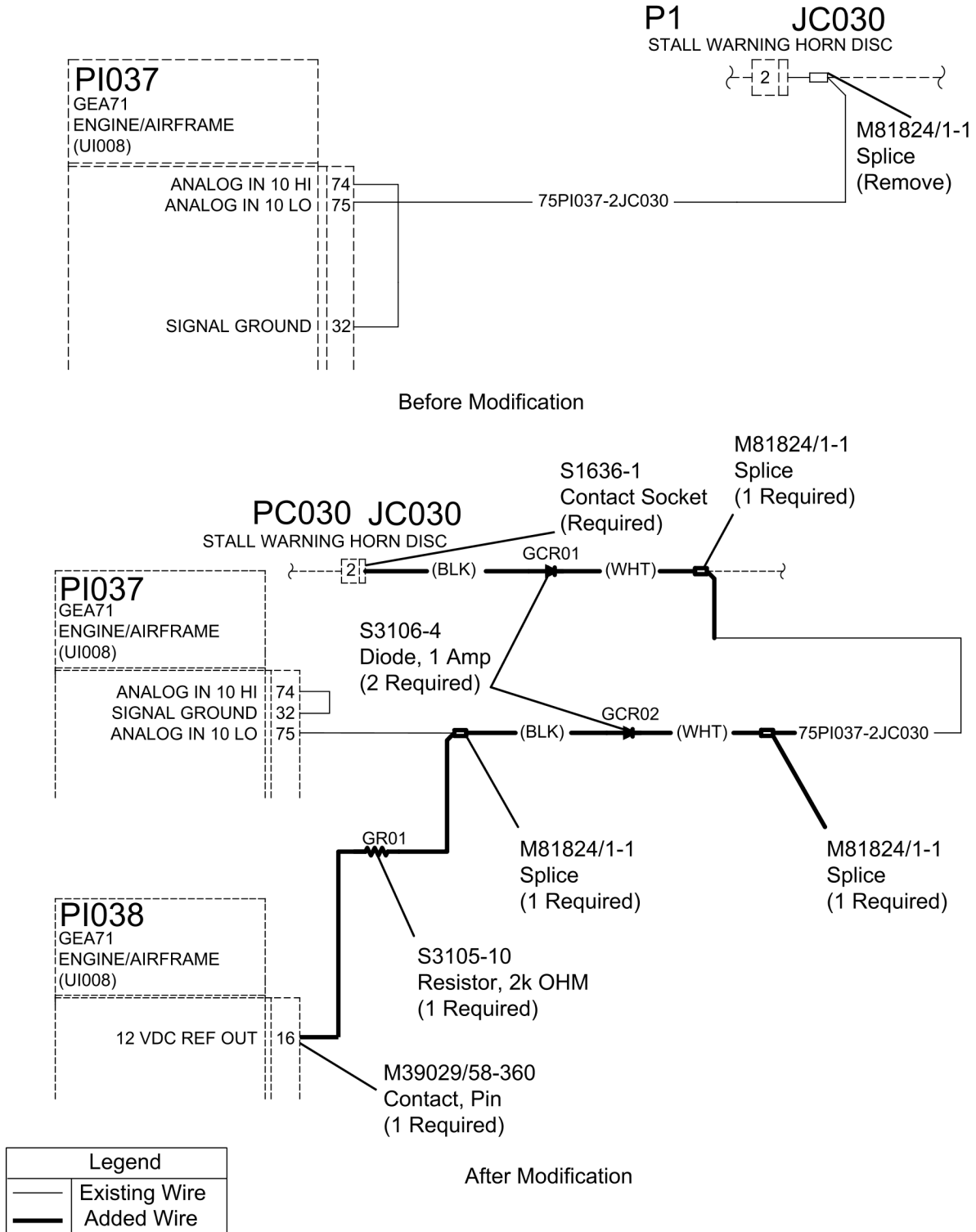


LEGEND	
-----	Removed
—————	New

0770560

Figure 2. Wiring Modifications (Sheet 1)

B22040



005-00620-BA

Figure 2. Wiring Modifications (Sheet 2)

MATERIAL INFORMATION

Order the kit/parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
SEB-34-22-0	1	Kit , consisting of the following parts:		
MS35206-245	2	Screw	N/A	
S2209-7	4	Tie Strap	N/A	
0718032-1	1	Bracket	N/A	
SEB-34-22	1	Instructions		

Airplanes 182T: 18283062 thru 18283115 and T206H: T20609560 thru T20609616, in addition to the SEB-34-22-0 Kit, order the kit that follows to install the wiring modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
SEB-34-22-1	1	Kit , consisting of the following parts:		
M39029/58-360	1	Contact, Pin	N/A	
M81824/1-1	3	Splice	N/A	
S1636-1	1	Contact, Socket	N/A	
S3105-10	1	Resistor Assembly (2k OHM)	N/A	
S3106-4	2	Diode Assembly (1 Amp)	N/A	

In addition to the SEB-34-22-0 Kit, Model 182S, T182T and 182T airplanes will need to order the part that follows.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
0770560-7	1	Stall Warning Horn Kit		Horn Kit for model 182 series airplanes

In addition to the SEB-34-22-0 Kit, Model T206H airplanes will need to order the part that follows.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
1270560-6	1	Stall Warning Horn Kit		Horn Kit for model 206 series airplanes

* 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.