

TITLE

ICE AND RAIN PROTECTION - CHANGE ANTI-ICE CROSSFLOW VALVE ORIENTATION

EFFECTIVITY

MODEL	SERIAL NUMBERS
Model 680A (Citation Latitude)	-0001 thru -0270

The equivalent of this service document has been incorporated on production airplanes -0271 and On.

REASON

Studs on the anti-ice crossflow valve can rub against the fuselage and cause damage.

DESCRIPTION

This service document provides parts and instructions to change the orientation of the anti-ice crossflow valve to prevent it from rubbing on the fuselage.

COMPLIANCE

DISCRETIONARY. 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

June 3, 2021

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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	U074093 (Alodine 1132 Touch n Prep)	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To prepare bare aluminum surface for intermediate primer.
Corrosion-Resistant Primer	513 x 419	PRC - Desoto International 5430 San Fernando Road Glendale, CA 91209	To protect against corrosion.
Glass Cloth Tape	Scotch Brand Tape #363	Industrial Tape Division of 3M Co. 3M Center St. Paul, MN 55101	To protect parts.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Cessna Model 680A Maintenance Manual

Cessna Model 680A Structural Repair Manual

PUBLICATIONS AFFECTED

Cessna Model 680A 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 batteries.
 - D. Attach maintenance warning tags to the batteries and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
2. Remove the 9914552-3 Wing Anti-ice Crossflow Valve. (Refer to the Model 680A Maintenance Manual, Chapter 30, Wing Anti-Ice Crossflow Valve - Removal/Installation.)
3. (Refer to Figure 1, Sheet 1.) Modify the 7414416-9 Bracket.
 - A. Measure 0.69 inches down from the bend radius on the 7414416-9 Bracket and remove the material as shown.
 - B. Attach the 7490009-2 Bracket behind the 7414416-9 Bracket.
 - C. (Refer to Figure 1, Sheet 1.) Mark the hole locations as shown.
 - D. Drill the 0.125 inch holes.
 - E. Deburr the drilled holes.
 - F. Install the MS20615-4M5 Rivets.
 - G. Clean and remove any debris from the area.

4. Inspect the fuselage skin and repair as necessary. (Refer to the Model 680A Structural Repair Manual, Chapter 51, Crack, Scratch, Gouge and Corrosion.)
5. (Refer to Figure 1, Sheet 2.) Install the 9914552-3 Wing Anti-Ice Crossflow Valve as shown. (Refer to the Model 680A Maintenance Manual, Chapter 30, Wing Anti-Ice Crossflow Valve - Removal/Installation.)

NOTE: The valve orientation has changed.

- A. Install the wing anti-ice valve cover with the four NAS1801-08-7 screws and NAS1149FN816P Washers as shown.

NOTE: The cover orientation has changed.

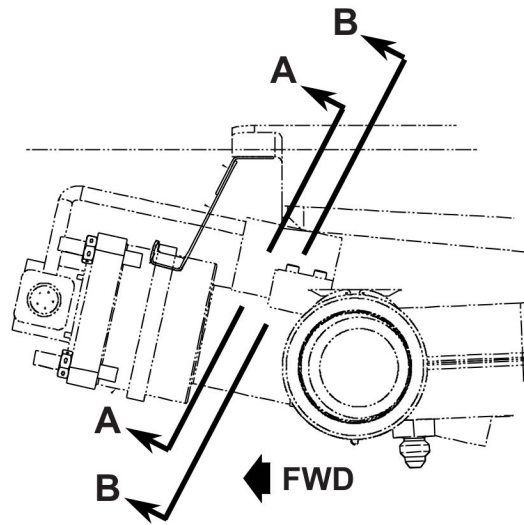
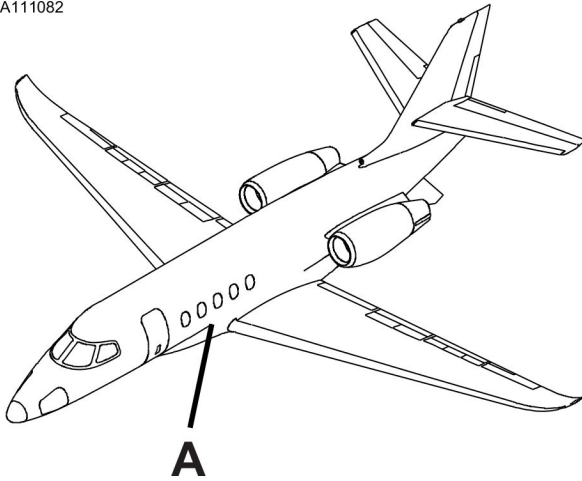
- B. Wrap the tubing with the Scotch Brand Tape #363 Glass Cloth Tape in the areas shown to seal any gaps between the tube and cover.
6. Modify the 9914552-3 Wing Anti-Ice Crossflow Valve connector PY023 wiring.
 - A. Disconnect electrical connector PY023 from the 9914552-3 Wing Anti-Ice Crossflow Valve (if necessary).
 - B. Remove Pin A from connector PY023.
 - C. Cut the contact off the wire.
 - D. Use one M81824/1-1 Splice to splice on approximately 9 inches of M81044/12-22-9 Wire marked (69600-3001-H24A-22) APY023-(SP)APY023.

NOTE: Up to 12 inches of wire length may be used if required.
 - E. Install one M39029/57-357 Contact on the wire.
 - F. Install the wire with the contact in Pin A on connector PY023.
 - G. Repeat steps 3.A. thru 3.E. for each pin in connector PY023.
 - (1) For PY023 pin B use wire (69600-3001-H25A-22) BPY023-(SP)BPY023.
 - (2) For PY023 pin C use wire (69600-3001-H26A-22) CPY023-DGYCB12.
 - (3) For PY023 pin D use wire (69600-3001-H27A-22) DPY023-20PY002.
 - H. Wrap the wires with the S4057-8P Sleeving.
 - I. Tie the wire harness with the MS3367-1-10 Tie Wrap.
 - J. Route the wire harness to the 9914552-3 Wing Anti-Ice Crossflow Valve connector. (Refer to the Model 680A Structural Repair Manual, Chapter 20, Wiring and Resistors - Maintenance Practices.)
 - K. Connect electrical connector PY023 to the 9914552-3 Wing Anti-Ice Crossflow Valve.
 7. Do the post maintenance checks. (Refer to the Model 680A Maintenance Manual, Chapter 30, Wing Anti-Ice Crossflow Valve - Removal/Installation.)
 8. Put the airplane back to its initial condition.
 9. Remove the maintenance warning tags and connect the airplane batteries.
 10. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

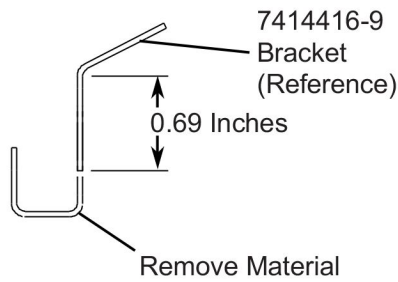
NOTE: Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- 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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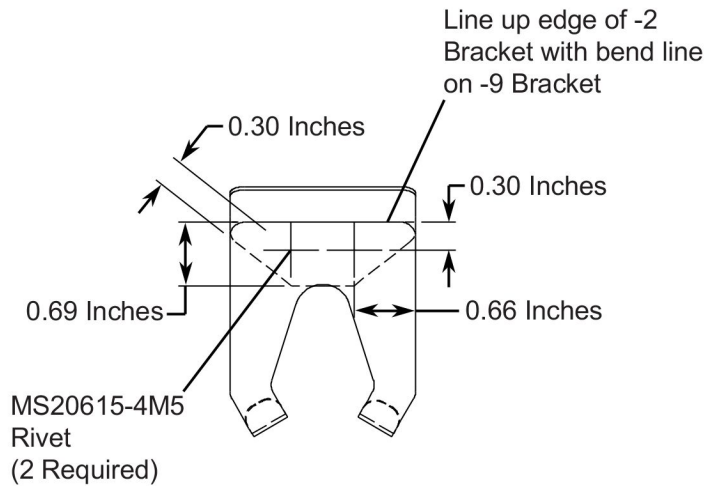
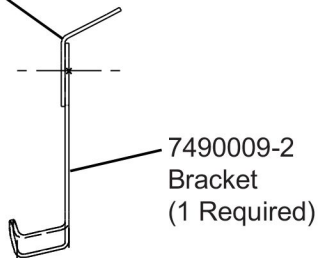


DETAIL A



VIEW A-A

7414416-9 Bracket (Reference)

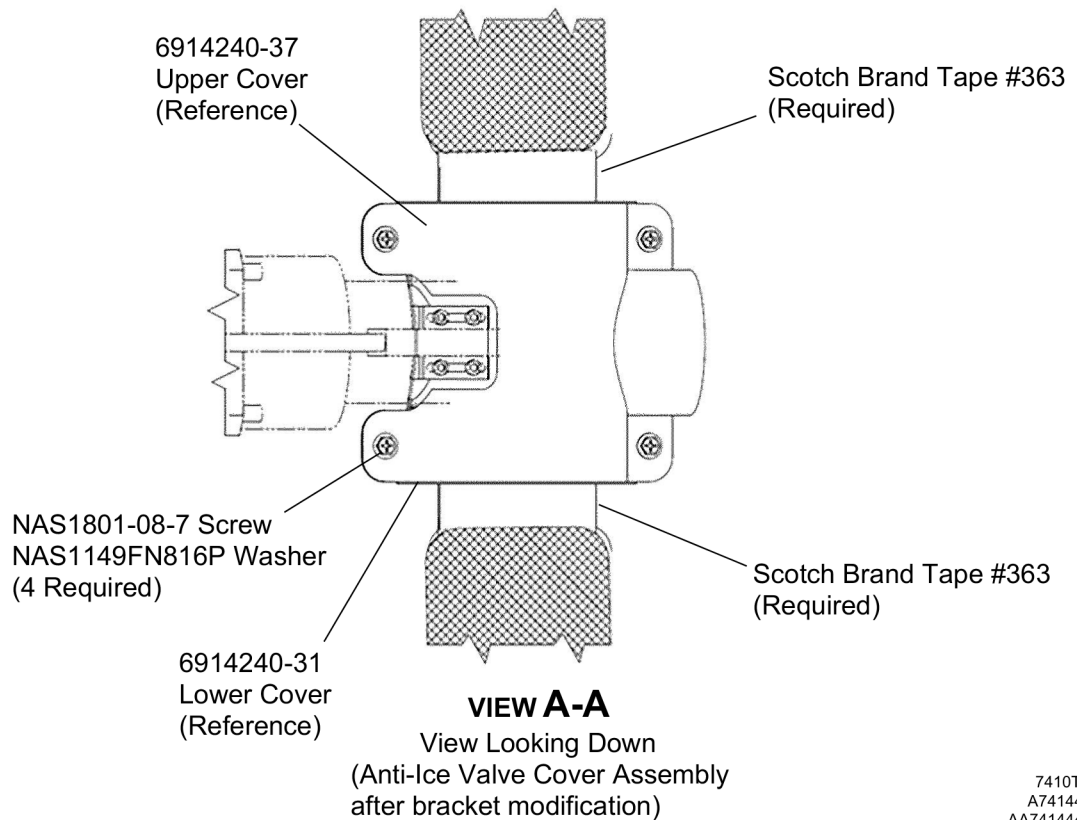
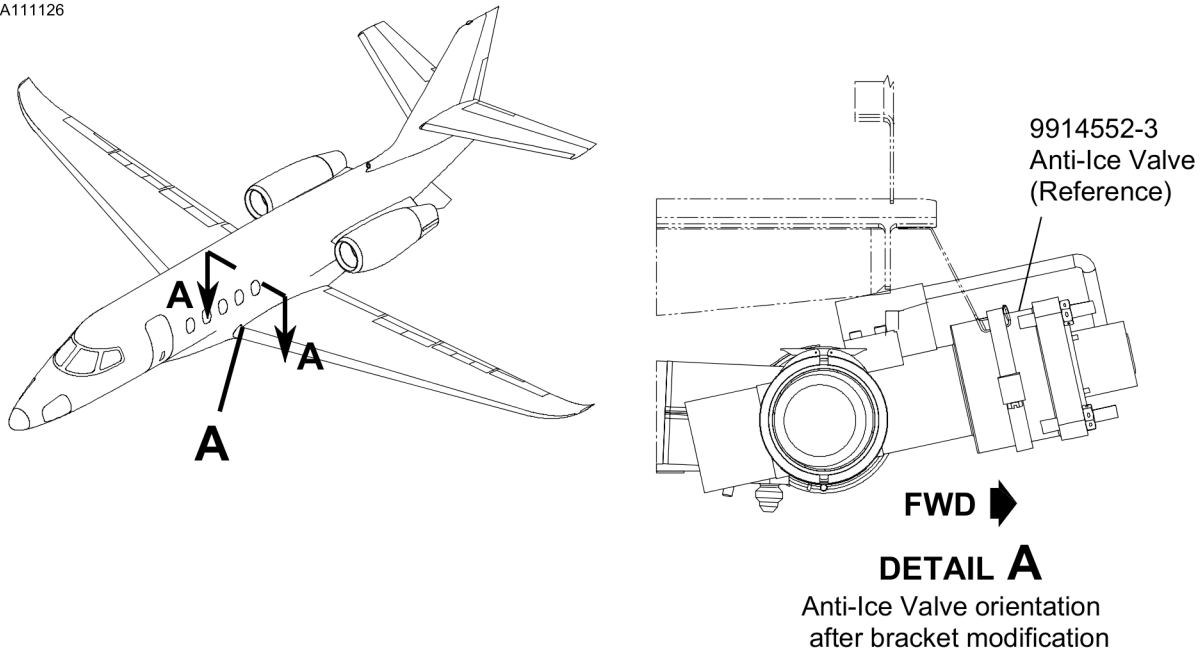


VIEW B-B

7490009

Figure 1. Wing Crossover Anti-Ice Valve Bracket (Sheet 1)

A111126



7410T1002
A7414440-1
AA74144410-1

Figure 1. Wing Crossover Anti-Ice Valve Bracket (Sheet 2)

MATERIAL INFORMATION

Order the kits below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
SB680A-30-01-0	1	Kit , consisting of the following parts:		
7490009-2	1	Bracket		Install
AS3209-226	2	O-Ring		Install
MS20615-4M5	2	Rivet		Install
M39029/57-357	4	Contact		Install
M81824/1-1	4	Splice		Install
MS3367-1-10	5	Tie Wrap		Install
NAS1801-08-7	4	Screw		Install
NAS1149FN816P	4	Washer		Install
S4057-8P	15 inches	Sleeving		Install
SB680A-30-01	1	Instructions		

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
SB680A-30-01-1	1	Kit , consisting of the following parts:		
M81044/12-22-9	12 inches	Electrical Wire marked - (69600-3001-H24A-22) APY023-(SP)APY023		Install
M81044/12-22-9	12 inches	Electrical Wire marked - (69600-3001-H25A-22) BPY023-(SP)BPY023		Install
M81044/12-22-9	12 inches	Electrical Wire marked - (69600-3001-H26A-22) CPY023-DGYCB12		Install
M81044/12-22-9	12 inches	Electrical Wire marked - (69600-3001-H27A-22) DPY023-20PY002		Install

* 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).

For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

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

TITLE

ICE AND RAIN PROTECTION - CHANGE ANTI-ICE CROSSFLOW VALVE ORIENTATION

TO:

680A (Citation Latitude) Aircraft Owner

REASON

Studs on the anti-ice crossflow valve can rub against the fuselage and cause damage.

COMPLIANCE

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

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	8
Test and Inspection	0.5

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
SB680A-30-01-0	*	*
SB680A-30-01-1	*	*

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

WARRANTY

Eligible airplanes exhibiting conditions described in this service document may demonstrate improved operation by incorporation of the work described herein. This service document is to be accomplished at the *discretion* of the owner. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

June 3, 2021

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Eligibility: Airplanes identified within the serial number effectivity of this service document must have active Airframe warranty coverage on the original issue date of this document and the coverage must be active on the day the work is accomplished.

Parts Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities, operators, or other maintenance facilities may submit a claim for the parts required to accomplish this service document as defined in the *Material Availability* section of this document.

Labor Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities rated to perform maintenance on the specific model of Cessna Aircraft may submit a claim for the labor necessary to accomplish this service document as defined in the *Labor Hours* section of this document.

Credit Application: After this service document has been accomplished, a claim must be submitted to Textron Aviation within 30 days of the service document completion. Claims for compliance of this service document are to be filed as a W4 type claim.

Please submit your claim form online at ww2.txtav.com/Parts or email the completed Textron Aviation Claim Form to warranty@txtav.com. If submitted on-line a Return Authorization will be provided. If a paper claim is submitted your claim will be entered into the system and a Return Authorization will be sent to you.

The Return Authorization must accompany any required return parts (see *Material Availability*), to the point of purchase.

Parts to be returned to Textron Aviation Parts Distribution should be forwarded to:

Textron Aviation Parts Distribution
Warranty Administration
285 South Greenwich Road
Bldg B89, Docks 1-4
Wichita, KS 67206
USA

Expiration: June 30, 2023 (after this date the owner/operator assumes the responsibility for compliance costs)

Textron Aviation reserves the right to void continued airplane warranty coverage for the parts affected by this service document until the service document is accomplished.

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.