

MANDATORY**SEL-21-03****TITLE**AIR CONDITIONING - TRANSMITTAL OF KELLY AEROSPACE THERMAL SYSTEMS NC-19-009 CESSNA
206 CONTROLLER COVER SPECIAL INSTALLATION**EFFECTIVITY**

Airplanes that follow with Kelly Aerospace Thermal Systems Air Conditioning STC SA03302CH installed.

MODEL

T206H

SERIAL NUMBERST20609123, T20609131, T20609132,
T20609140, T20609144, T20609147,
T20609148, T20609150, T20609151,
T20609161, T20609162, T20609165,
T20609167, T20609170, T20609174,
T20609175, T20609176, T20609178,
T20609183, T20609190, T20609203,
T20609204, T20609207, T20609213,
T20609215, T20609217, T20609219,
T20609220, T20609221, T20609223,
T20609225, T20609227, T20609228,
T20609230, T20609231, T20609234,
T20609238, T20609239, T20609241,
T20609242, T20609244, T20609245,
T20609246, T20609247, T20609249,
T20609251, T20609252, T20609255,
T20609504, T20609505, T20609506,
T20609507, T20609510, T20609512,
T20609514, T20609515, T20609517,
T20609518, T20609519, T20609521,
T20609523, T20609526, T20609529,
T20609530, T20609531, T20609532,
T20609534, T20609535, T20609539,
T20609540, T20609542, T20609544,
T20609547, T20609550, T20609551,
T20609554, T20609557, T20609561**NOTE:** This service document only applies to airplanes that have Kelly Aerospace Thermal Systems
Air Conditioning STC SA03302CH installed.**REASON**

Kelly Aerospace has designed a cover for the air conditioning (AC) circuit panel. This cover is designed to provide a ramp for the rudder cables to prevent the cables from being caught on the AC circuit panel if the AC circuit panel is installed or re-installed incorrectly. If a rudder control cable is caught on the circuit board, there is a possibility for the cable to cause arching when it contacts the terminals on the AC circuit panel. A rudder control cable that contacts the terminals on the AC circuit panel can arc with sufficient energy that the rudder control cable can be severed causing loss of rudder control and subsequently loss of control of the airplane

February 20, 2019

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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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MANDATORY**SEL-21-03****DESCRIPTION**

This service document transmits Kelly Aerospace Thermal Systems NC-19-009 which provides instructions to install the AC-01995 206 Controller Cover on the AC circuit panel.

COMPLIANCE

MANDATORY. This service document must be accomplished at the next scheduled maintenance event, 100-hour inspection or 12-month (annual-type) inspection, whichever occurs first.

Compliance with this service letter and the installation of the AC-01995 206 Controller Cover, terminates the recurring inspection from SEL-21-02 - Transmittal of Kelly Aerospace Service Bulletin KATS-SB-19-001 Rudder Cable Clearance on Cessna T206H Equipped with Kelly Aerospace Thermal Systems Air Conditioning per STC SA03302CH.

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.

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Cessna Model 206H/T206H Maintenance Manual

Kelly Aerospace Thermal Systems NC-19-009 Cessna 206 Controller Cover Special Installation, Dated January 31, 2019 or later.

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

PUBLICATIONS AFFECTED

None

MANDATORY**SEL-21-03****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.
2. Review and complete Kelly Aerospace Thermal Systems NC-19-009 Cessna 206 Controller Cover Special Installation, Dated January 31, 2019 or later.
3. Remove the maintenance warning tags and connect the airplane battery.
4. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

MATERIAL INFORMATION

Order the kit/parts below to install this modification.

NEW P/N	QUANTITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
AC-01995	1	Cover	N/A	Install on AC circuit Panel

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

TITLE

AIR CONDITIONING - TRANSMITTAL OF KELLY AEROSPACE THERMAL SYSTEMS NC-19-009 CESSNA 206 CONTROLLER COVER SPECIAL INSTALLATION

TO:

Cessna Model T206H Aircraft Owner with airplanes that have Kelly Aerospace Thermal Systems Air Conditioning STC SA0332CH installed.

REASON

Kelly Aerospace has designed a cover for the air conditioning (AC) circuit panel. This cover is designed to provide a ramp for the rudder cables to prevent the cables from being caught on the AC circuit panel if the AC circuit panel is installed or re-installed incorrectly. If a rudder control cable is caught on the circuit board, there is a possibility for the cable to cause arching when it contacts the terminals on the AC circuit panel. A rudder control cable that contacts the terminals on the AC circuit panel can arc with sufficient energy that the rudder control cable can be severed causing loss of rudder control and subsequently loss of control of the airplane

COMPLIANCE

MANDATORY. This service document must be accomplished at the next scheduled maintenance event, 100-hour inspection or 12-month (annual-type) inspection, whichever occurs first.

Compliance with this service letter and the installation of the AC-01995 206 Controller Cover, terminates the recurring inspection from SEL-21-02 - Transmittal of Kelly Aerospace Service Bulletin KATS-SB-19-001 Rudder Cable Clearance on Cessna T206H Equipped with Kelly Aerospace Thermal Systems Air Conditioning per STC SA03302CH.

LABOR HOURS

For planning purposes only:

WORK PHASE	LABOR-HOURS
Modification	1.0

MATERIAL AVAILABILITY

No part are required to complete this service document.

PART NUMBER	AVAILABILITY	COST
AC-01995	*	*

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

WARRANTY

This service document is *mandatory*. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

Eligibility: All airplanes identified within the serial number effectivity of this service document.

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: February 20, 2020 (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.



KELLY AEROSPACE

Thermal Systems

Document Number: NC-19-009
Title: Cessna 206 Controller Cover Special Installation
Revision: A
Date: 31 January 2019

	Name	Signature	Date
Author	Paul Garcia		1/31/2019
Approved	Jeff Barlett		1/31/2019

Revisions

Rev.	Description	Author	Date	Approved
A	Initial Release	Paul Garcia	1/31/2019	Jeff Barlett

The latest revision of this manual can be obtained from the Kelly Aerospace website at www.kellyaerospace.com.

In the event Internet access is not available, please contact Customer Service for inquiry or a copy of the latest revision:

Kelly Aerospace
1625 Lost Nation Road
Lost Nation Airport
Willoughby, Ohio 44094
(440) 951-4744

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1. INTRODUCTION

1.1. Purpose

Certain Cessna 206H and T206H aircraft that have been upgraded with Kelly Aerospace Thermal System (KATS) Air Conditioning System STC SA03302CH may not be fitted with a protective cover for the Waterdam/Controller Assembly. Service Bulletin Number KATS-SB-19-001 has been issued to address the addition of this cover. The information in this Service Letter provides step-by-step instructions to install the AC-01995 Controller Cover in order to comply with the afore mentioned Service Bulletin.

1.2. Eligibility

All Cessna 206H and T206H aircraft upgraded with KATS Air Conditioning System Kit Number KATS-13-001 using document *NC-13-024 206H & T206H Air Conditioning Installation Manual* revision "H" or earlier.

1.3. Required Materials

The following items are required for this Service Letter (items made available from KATS):

- AC-01290 Cessna 206 AC Schematic CB-2
- AC-01995 206 Controller Cover Trimmed
- KATS-SB-19-001 Service Bulletin

1.4. Referenced Documents

The following documents are referenced in this Service Letter:

- Cessna Aircraft Maintenance Manual
- NC-13-024 206H & T206H Air Conditioning Installation Manual
- STC SA03302CH

1.5. Compliance

Mandatory; the installation of AC-01995 Controller Cover described in this document is required in order to comply with Service Bulletin KATS-SB-19-001.

1.6. Approval

FAA approval has been obtained on all technical data in this Service Letter that affects type design.

1.7. Resources

One hour of labor is required to comply with this Service Letter.

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1.8. Structural Fasteners

Structural fasteners should be installed per AC43.13-1B.

Unless otherwise specified, use the following torque values.	
6-32 UNC	7-9 inch-lbs.
8-32 UNC	17-19 inch-lbs.
10-24 UNC	20-22 inch-lbs.
10-32 UNF	28-31 inch-lbs.
1/4-20 UNC	70-75 inch-lbs.
1/4-28 UNF	90-94 inch-lbs.
5/16-24 UNF	120-145 inch-lbs.
3/8-24 UNF	200-250 inch-lbs.
7/16-20 UNF	520-630 inch-lbs.
Table 1 – Fastener Torque Specifications	

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2. INSTRUCTIONS FOR COMPLIANCE

2.1. Preparation

- A. Ensure all documentation is the latest revision.
- B. Conduct a parts inventory to ensure all required items are present.
- C. Disconnect aircraft battery per Cessna Aircraft Maintenance Manual (AMM).
- D. Secure external power receptacle to prevent unwanted power on aircraft busses (e.g. tape over receptacle with non-metallic masking tape with label warning of hazard).

2.2. Installation of Controller Cover

- A. Remove the screen protecting the Waterdam on the starboard side of the tail. See Figure 1.

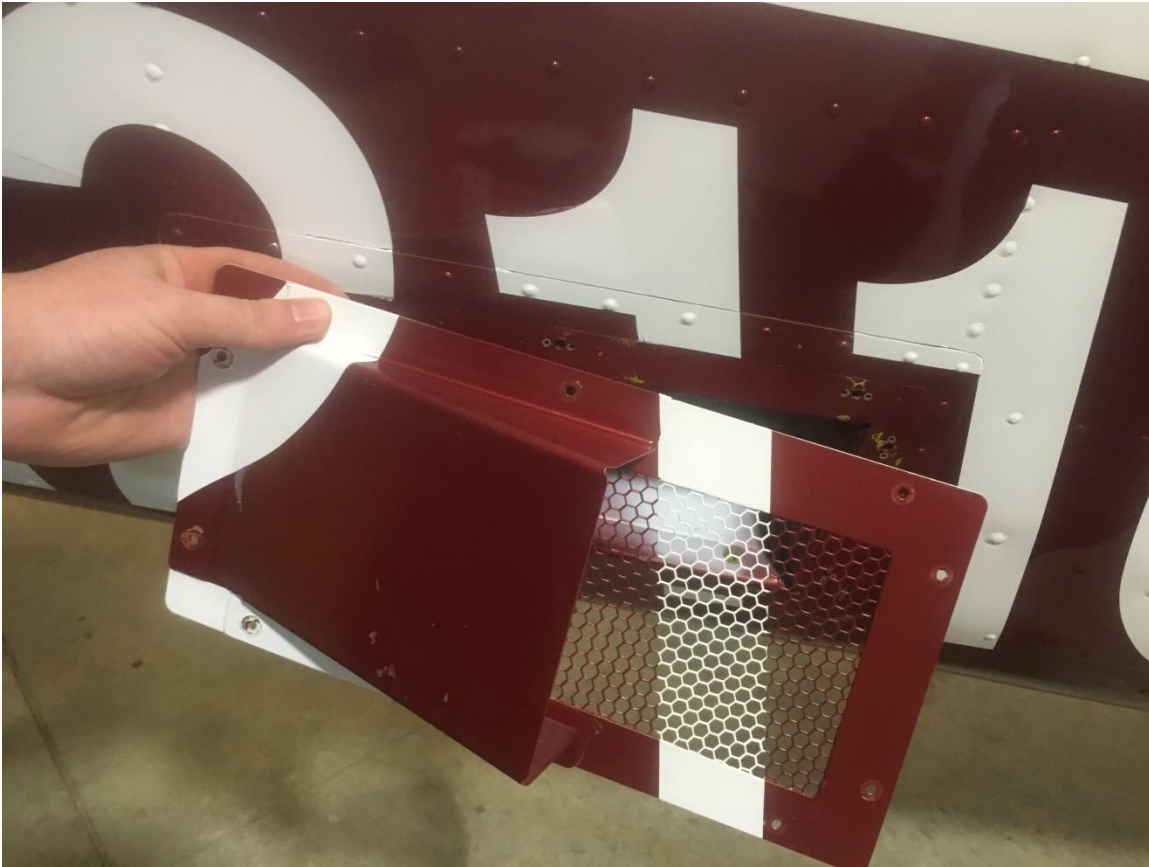


Figure 1 - Remove Screen

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- B. Disconnect the Waterdam/Controller Assembly from the frame by unbolting the (7) AN-3 bolts along the sides and bottom of the assembly and set aside for re-use. Take care not to allow the assembly to fall on to the components within. See Figure 2.

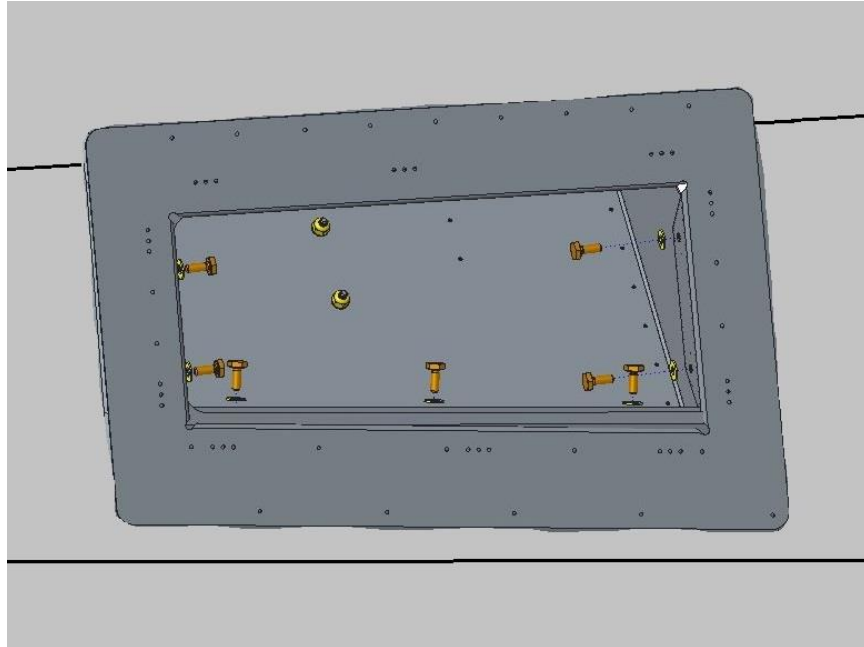


Figure 2 - Unbolt Waterdam/Controller Assembly

- C. The Waterdam/Controller Assembly will still be wired to components within the tailcone, so carefully turn the assembly so you can view the backside. See Figure 3.



Figure 3 - Controller Removal

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- D. If the terminals for the controller are orientated away from the Waterdam as shown in Figure 4, they must be disconnected and re-connected routed towards the Waterdam as shown in Figure 5. Note: Early versions of the wire harness were color coded Blue, Orange and Yellow; newer versions of the wire harness are all white (as shown in the figures below) but are color labeled. Reference AC-01290 Cessna 206 AC Schematic CB-2.

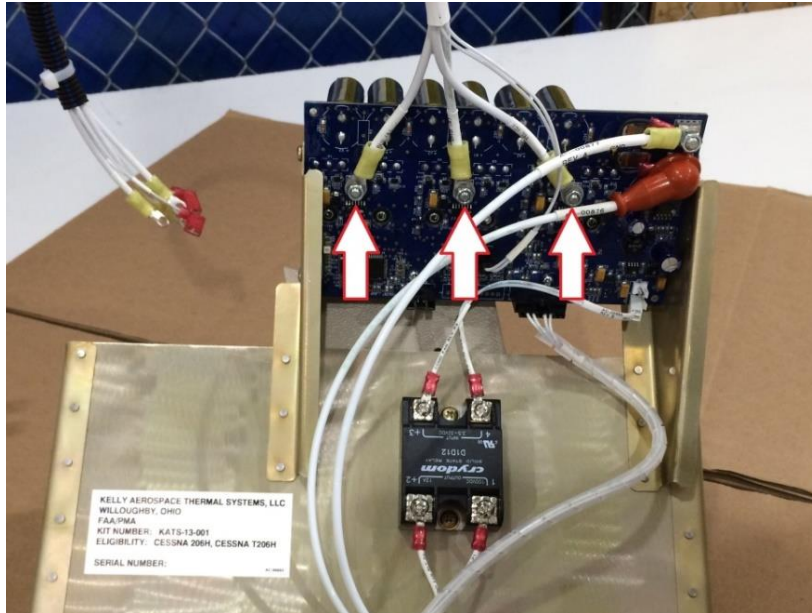


Figure 4 - Incorrect Wire Routing

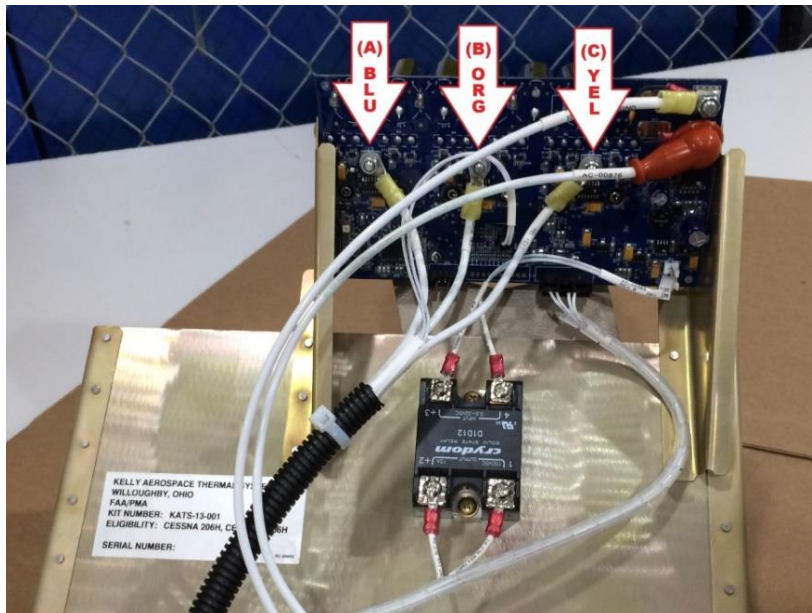


Figure 5 - Correct Wire Routing

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- E. Install AC-01995 Controller Cover by removing the two screws and washers on the aft end of the controller and set aside for re-use. Slide the Cover in between Controller and the Bracket orientated as shown. Re-install the screws and washers. See Figure 6.

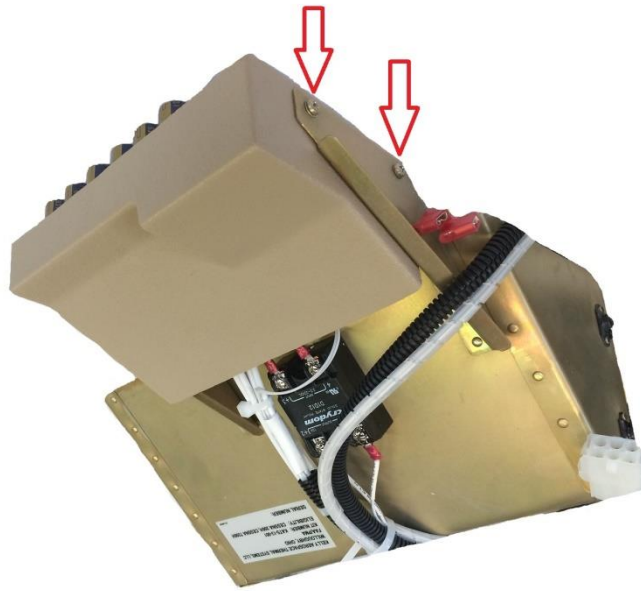


Figure 6 - Attach Aft End Between Bracket and Controller

- F. Remove the two screws and washers on the forward end of the Controller and slide the Cover into place, over the bracket, lining up the holes and re-attach the screws and washers. See Figure 7.

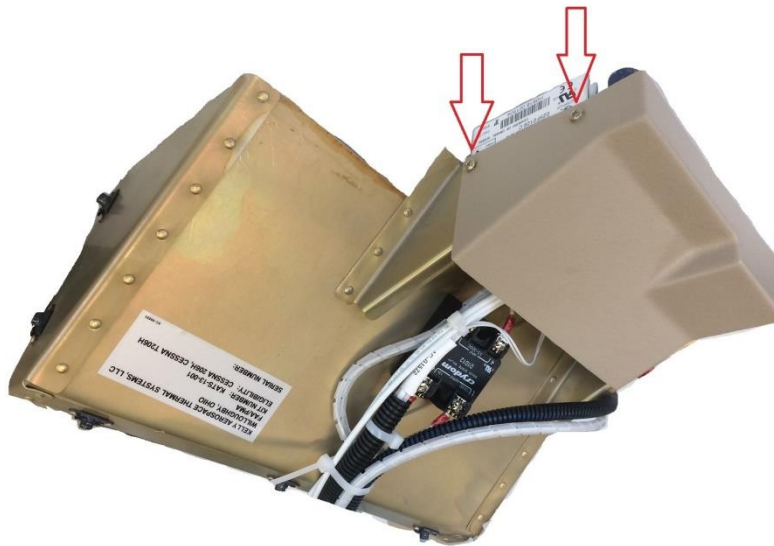


Figure 7 - Attach Forward End Over Bracket

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- G. Re-connect the Waterdam/Controller Assembly to the frame with the (7) AN-3 bolts along the sides and bottom of the assembly. Replace the cover screen.
- H. Remove access panel number 310AB (P/N: 1212439-1) from bottom of tailcone and inspect the rudder cable routing to verify it is routed correctly. See Figure 8.



Figure 8 - Visually Inspect from Access Panel

- I. Manually test all flight controls to the normal extent of their range, checking for abnormal tension or noises.
- J. Re-connect the aircraft battery per the Cessna AMM.

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2.3. Operational Test

Perform an operational test of the Air Conditioning System to ensure correct re-installation of components.

- A. Plug in external power and energize.
- B. Turn Master Switch on.
- C. Turn Climate Controller on.
- D. Cabin temp should be displayed.
- E. Select fans up and fan speed should correspond.
- F. Turn climate controller off.
- G. Turn Master Switch off.
- H. If any items do not operate as described, troubleshoot system and correct discrepancies. If further assistance is needed contact KATS technical support at (440) 951-4744.

3. Return to Service

Make aircraft log book entry.

4. Assistance

Questions regarding this Service Letter may be directed to KATS Customer Service via telephone at (440) 951-4744 or email at www.kellyaerospace.com.

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