



KEITH PRODUCTS, INC.

SERVICE BULLETIN: SB212

TEMPERATURE CONTROL
UPGRADE FOR
CESSNA 182 AND 206 MODELS

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Original Date: 1/14/08
Revision: NC
Revision Date: _____

JAN 14 2008
RELEASE DATE

RECORD OF REVISIONS

<u>REV</u>	<u>DATE</u>	<u>DESCRIPTION</u>	<u>BY</u>	<u>APPV</u>
NC	1/14/08	Initial Release	LEO	<i>LEO</i>

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- 1.0 **SUBJECT:** Temperature control upgrade.

- 2.0 **EFFECTIVITY:** All Cessna models 182S, 182T, T182T, 206H and T206H aircraft with installed Keith Products air conditioning system.

- 3.0 **REASON:** To provide a larger temperature control range.

- 4.0 **DESCRIPTION:** This service bulletin provides the necessary instructions and components to upgrade the temperature control components.

- 5.0 **COMPLIANCE:** Recommended.

- 6.0 **APPROVAL:** Data is approved under STC number's ST09494SC and SA10144SC.

- 7.0 **ELECTRICAL LOAD DATA:** Negligible

- 8.0 **WEIGHT AND BALANCE:** Unaffected.

- 9.0 **ACCOMPLISHMENT TIME:** It is estimated to take one mechanic 1 or 2 hours to accomplish this service bulletin.

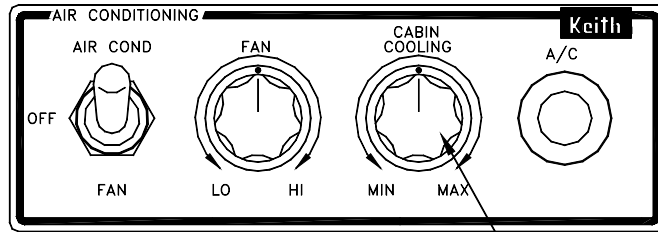
- 10.0 **PARTS SUPPLIED WITH KIT:**

<u>Part Number</u>	<u>Description</u>	<u>QTY</u>
ES62114-4	Rheostat	1
ES54145-16	Wire	12"
ES48060-2	Heat Shrink	6"
ES55131-3	Splice	1

Contact Keith Products sales department to order this service bulletin kit at phone number (972) 407-1234.

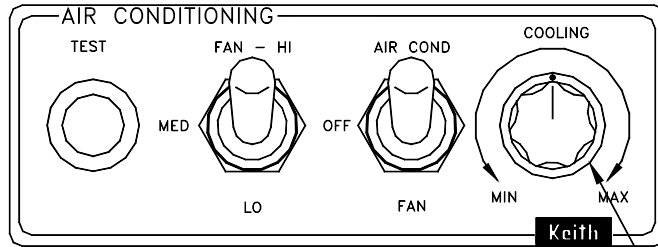
11.0 REPLACEMENT INSTRUCTIONS:

1. Turn off the aircraft power and the air conditioning system.
2. Disengage the airconditioning circuit breaker.
3. On the airconditioning control panel, remove the knob labeled "cooling". Save the knob for reinstallation.
4. Unsolder the wires that connect to the rheostat labeled "cooling" and the resistor. Cessna 182 models should use caution as the rheostat labeled "fan speed" looks the same. Discard the rheostat and resistor. See Figure 2 (old configuration).
5. Install the new rheostat p/n ES62114-4. Use caution to prevent mixing the old and new rheostat as they both look the same.
6. Solder the wires to new rheostat as shown in Figure 2 (new configuration). All soldering to be accomplished in accordance with MIL-STD-2000A and heat shrink all soldered connections. Alternatively, if the two wires that were previously connected to the resistor are not long enough to reach the new rheostat, it is permissible to use the provided splice to extend the length as shown in Figure 3.
7. Reinstall knob with the indicator pointing straight up when the rheostat is in the middle of its range.
8. Close the airconditioning circuit breaker.
9. Functionally check that the airconditioning system operates.



KNOB
ES59118-1
RHEOSTAT
ES59114-1

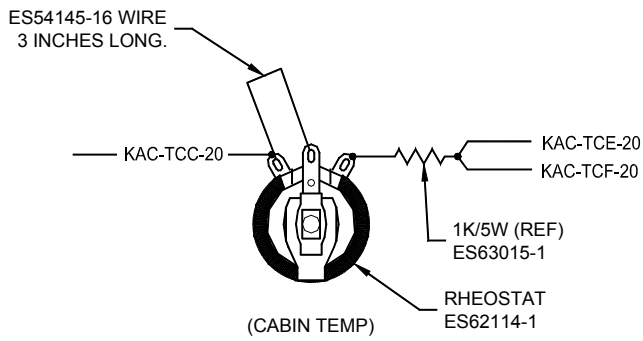
CONTROL PANLE FOR CESSNA 182



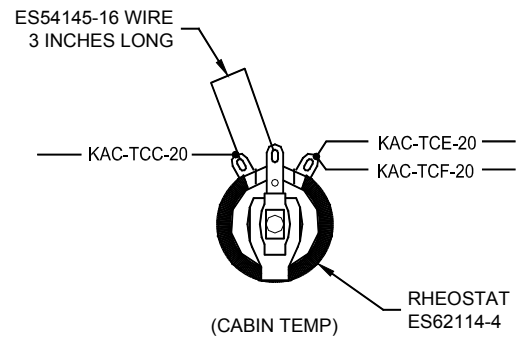
KNOB
ES59118-1
RHEOSTAT
ES59114-1

CONTROL PANLE FOR CESSNA 206

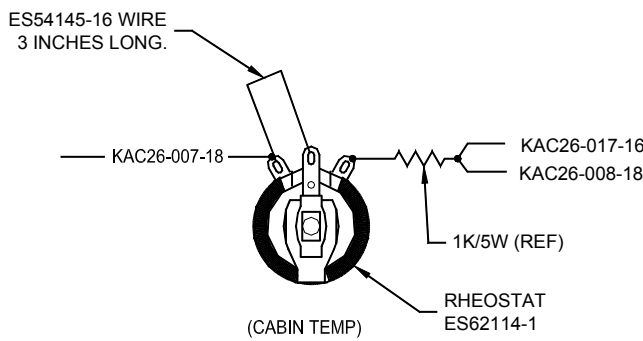
Figure 1



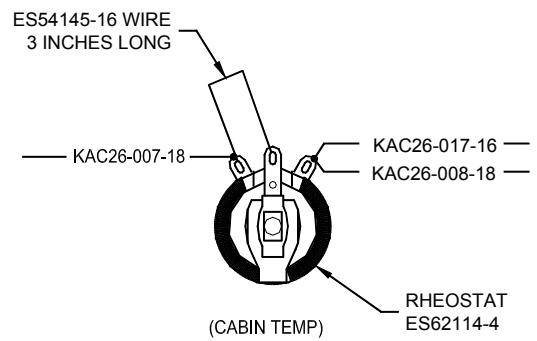
EXISTING CONFIGURATION
FOR CESSNA 182 MODELS.



NEW CONFIGURATION
FOR CESSNA 182 MODELS.



EXISTING CONFIGURATION
FOR CESSNA 206 MODELS.



NEW CONFIGURATION
FOR CESSNA 206 MODELS.

Figure 2

Looking at opposite side of shaft.

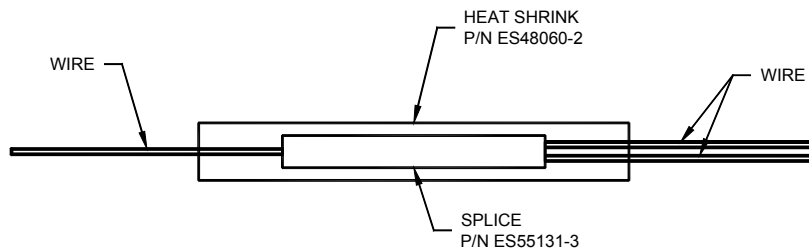


Figure 3

Alternative configuration if
wires are too short.