TITLE
INSTALLATION OF 86317 EGT PROBE

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281186</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S9489</td>
</tr>
</tbody>
</table>

DESCRIPTION

This Modification kit gives instructions to add a slack loop when an inoperative 86316 EGT Probe is replaced with a new 86317 EGT Probe.

A new EGT probe (part number 86317) has been designed with a longer electrical wire and should be installed as described in this Modification Kit.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.
REFERENCES


Model 172R and Model 172S Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual.

CHANGE IN WEIGHT AND BALANCE

MODEL ........................................ 172R/172S
WEIGHT CHANGE ........................... Negligible

MATERIAL INFORMATION

The parts below may be necessary:

<table>
<thead>
<tr>
<th>New P/N</th>
<th>Quantity</th>
<th>Description</th>
<th>Old P/N</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>86317</td>
<td>1</td>
<td>EGT Probe</td>
<td>86316</td>
<td>Discard</td>
</tr>
<tr>
<td>MS3367-4-9</td>
<td>1</td>
<td>Tie-Strap</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

ACCOMPLISHMENT INSTRUCTIONS

1. Electrically ground the airplane and turn all switches to the OFF position. Disconnect all external electrical power from to the airplane.


3. Disconnect the airplane battery. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Electrical Power.)

4. Attach maintenance warning tags to the battery and external power receptacle with the instruction: *DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS.*

5. Remove the inoperative 86316 EGT Probe. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 77, EGT System - Maintenance Practices.)

   A. (Refer to Figure 1.) Form a slack loop by loosely installing a MS3367-4-9 Tie-Strap in the EGT wire. Make sure the tie-strap is not tight so that the 86317 EGT Probe assembly will not be pulled apart by engine movement.
   B. Safety wire the slot of the clamp screw to the screw clamp housing.

7. Remove maintenance warning tags from battery and external power receptacle.

8. Connect the airplane battery. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Electrical Power.)


10. Make an entry in the airplane logbook that this modification kit has been installed.
NOTE 1: LOOSELY INSTALL THE TIE-STRAP.

NOTE 2: THIS SLACK LOOP INSTALLATION OF THE EGT PROBE IS ONLY APPLICABLE TO AIRPLANES WITHIN THIS MODIFICATION KIT EFFECTIVITY.

Figure 1. EGT Probe Installation (Sheet 1)