Single Engine

MODIFICATION KIT

MK172-23-01

TITLE
STATIC WICK REPLACEMENT

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>172S8001 and On</td>
</tr>
<tr>
<td>172S</td>
<td>17280001 and On</td>
</tr>
</tbody>
</table>

DESCRIPTION
This modification kit provides parts and instructions to replace all existing factory installed one-piece static wicks with a two-piece static wick.

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

REFERENCES
SNL00-4

CHANGE IN WEIGHT AND BALANCE

<table>
<thead>
<tr>
<th>Models</th>
<th>172R and 172S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight Change</td>
<td>Negligible</td>
</tr>
</tbody>
</table>

MATERIAL INFORMATION

NOTE: The parts included in this modification kit cover installation for one airplane.

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD PART/NUMBER</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-23-01</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C592001-0203</td>
<td>10</td>
<td>Static Wick Assembly-Two-piece</td>
<td>C592001-0201</td>
<td>Discard</td>
</tr>
<tr>
<td>S2230-1</td>
<td>20</td>
<td>Rivet</td>
<td>MS20470A4-4</td>
<td>Discard</td>
</tr>
<tr>
<td>S2230-1</td>
<td>1</td>
<td>Instructions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

January 31, 2000

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.
ACCOMPLISHMENT INSTRUCTIONS

1. Ensure that all switches are in the OFF/NORM position and disconnect electrical power from the airplane by disconnecting the battery and external electrical power. Attach maintenance warning tags to the battery and external power receptacle stating: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROCESS. Electrically ground the airplane at two locations.

2. (Refer to Figure 1, Sheet 1 and Figure 2, Sheet 1.) Static Wick Replacement:

CAUTION: TAKE CARE NOT TO OVERSIZE THE HOLES WHEN DRILLING OUT THE RIVET.

A. With a Number 30 (0.123 inch diameter) drill, carefully drill out existing MS20470A4 mounting rivets which attach C592001-0201 Static Wicks to structure.

B. Remove and discard existing C592001-0201 One-piece Static Wicks from the airplane skin, as shown.

C. Remove all traces of paint/primer from the surface where the new static wick base will be installed to ensure electrical conductivity. Clean skin surface where static wick base will attach to skin using ScotchBrite Pads and P-D-680 Solvent (or equivalent).

D. Brush cleaned skin surface where new static wick is to be installed with Alodine 1132.

E. (Refer to Figure 2, Sheet 1, Details A, B and C.) Secure the base of new C592001-0203 Two-piece Static Wick Assemblies to the airplane skin using 2 each S2230-1 Rivets in the existing rivet holes, as shown.

F. Check electrical bond of base to aircraft surface with micro-ohmmeter to ensure bond resistance of 0.0025 Ohms or less.

G. Touch up paint as needed.

H. After paint dries, install static wick into static wick base.

3. Remove affected flight control surfaces. (Refer to the Model 172 Series 1996 And On Maintenance Manual.)


5. Install flight control surfaces. (Refer to the Model 172 Series 1996 And On Maintenance Manual.)

6. Remove the maintenance warning tags attached to the battery and external power receptacle. Reconnect the airplane battery. Remove the grounding wires.

7. Make an entry in the airplane logbook stating this modification kit has been installed.
DRILL OUT EXISTING MS20470A4 RIVETS (ENSURE HOLES NO LARGER THAN 0.130 INCH ± 0.003 INCH)

C592001-0203
2 - PIECE STATIC WICK ASSEMBLY (REFERENCE)

NOTE: ALL DIMENSIONS SHOWN IN INCHES

DETAIL A

AN935-4L LOCK WASHER

PLASTIC LOCK WASHER RETAINER (REFERENCE) (REMOVE AT INSTALLATION)

C592001-0204 DISCHARGE WICK (REFERENCE)

C592001-0205 STATIC WICK BASE (REFERENCE)

INSTALL 2 EACH S2230-1 RIVET

DETAIL B

Figure 1. Static Wick Assembly (Sheet 1)
NOTE: ALL DIMENSIONS SHOWN IN INCHES.

DETAIL A
VIEW LOOKING DOWN (RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE)

DETAIL B
VIEW LOOKING DOWN (LEFT SIDE SHOWN, RIGHT SIDE OPPOSITE)

C592001-0203
STATIC WICK ASSEMBLY (REFERENCE)

C592001-0203
STATIC WICK ASSEMBLY (REFERENCE)

ELEVATOR TRIM TAB (REFERENCE)

FWD

0.62

HORIZONTAL STABILIZER (REFERENCE)
NOTE: ALL DIMENSIONS SHOWN IN INCHES.

DETAIL C
VIEW LOOKING INBOARD AT LEFT SIDE OF RUDDER

Figure 2. Static Wick Replacement (Sheet 2)