TITLE
UPPER WING SKIN MODIFICATION

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281243</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S9832</td>
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DESCRIPTION
This modification kit provides instructions and parts to install a wing skin stiffener in the trailing edge structure.

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

REFERENCE
SB06-57-01

CHANGE IN WEIGHT AND BALANCE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT CHANGE</th>
<th>ARM</th>
<th>RESULTANT MOMENT</th>
<th>MOMENT/1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>172</td>
<td>0.1 pounds</td>
<td>66.3 inches</td>
<td>6.63 inch-pounds</td>
<td>0.00663 inch-pounds</td>
</tr>
</tbody>
</table>

November 6, 2006

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

NOTE: The following parts cover installation for one airplane.

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
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<tbody>
<tr>
<td>MK172-57-04</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
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<tr>
<td>CR3213-4-2</td>
<td>8</td>
<td>Rivet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS20470AD3-3A5</td>
<td>6</td>
<td>Rivet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS20470AD3-6A5</td>
<td>2</td>
<td>Rivet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0592100-1</td>
<td>1</td>
<td>Stiffener Left</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0592100-2</td>
<td>1</td>
<td>Stiffener (right)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MK172-57-04</td>
<td>1</td>
<td>Instructions</td>
<td></td>
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</table>

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
   A. Make sure that all switches are in the OFF/NORM position.
   B. Disconnect electrical power from the airplane.
      (1) Disconnect the airplane battery.
      (2) Disconnect external electrical power.
   C. 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. Remove access panel 610WB left (510WB right). (Refer to the Maintenance Manual, Chapter 6, Access/Inspection Plates - Description Operation.)

3. Install the wing skin stiffener.
   A. (Refer to Figure 1, View A-A.) Put the 0592100-1 Left Stiffener in position between the 0523095 Upper Skin and 0522644 Lower Skin.
      NOTE: There may be sound dampening material where you need to put the 0592100-1 Stiffener. Move the sound dampening material as necessary to install the 0592100-1 Stiffener.
   B. Make marks for the hole locations on the 0592100-1 Left Stiffener.
   C. Drill four Number 40 (0.098-inch diameter) holes and two Number 30 (0.128-inch diameter) holes through the 0592100-1 Left Stiffener and the upper wing skin. Deburr the holes and apply Alodine.
   D. Drill two Number 30 (0.128-inch diameter) holes through the 0592100-1 Left Stiffener on the lower wing skin. Deburr the holes and apply Alodine.
   E. (Refer to Figure 1, View A-A and View B-B.) Install one MS20470AD3-6A5 Rivet in the forward hole, three MS20470AD3-3A5 Rivets in the middle three holes, and two CR3213-4-2 Rivets in the aft hole of the 0592100-1 Left Stiffener and the upper wing skin.
   F. (Refer to Figure 1, View A-A and View B-B.) Install two CR3213-4-2 Rivets in the two aft holes of the 0592100-1 Left Stiffener and the lower wing skin.

4. Install access panel 610WB left (510WB right). (Refer to the Maintenance Manual, Chapter 6, Access/Inspection Plates - Description Operation.)

5. Do Steps 2 through 4 to install the 0592100-2 Right Stiffener.

6. Do a touch-up of the paint as necessary.

7. Remove the maintenance warning tags and connect the airplane battery.

8. Make an entry in the airplane logbook stating that this Modification Kit has been installed.
Figure 1. Stiffener Installation (Sheet 1)
NOTE: All dimensions shown are in inches.

0523096 Spar Assembly (Reference)
0523046 Stiffener (Reference)
0592100 Stiffener (Reference)
0522644 Lower Skin (Reference)

0523095 Upper Skin (Reference)

Number 30 (0.128–Inch Diameter) Hole CR3213–4–2 Rivet (2 Each Required Lower Skin)

Number 40 (0.098–Inch Diameter) Hole MS20470AD3–6A5 Rivet (1 Each Required Upper Skin)

Number 40 (0.098–Inch Diameter) Hole MS20470AD3–3A5 Rivet (3 Each Required Upper Skin)

0720005 Stiffener (Reference)

0522644 Lower Skin (Reference)

0.29
0.40 (Typical)
6.18
4 Equal Spaces

0.31

8.17

VIEW A–A
Left Shown, Right Opposite (Wing Skin not shown for clarity)

Figure 1. Stiffener Installation (Sheet 2)