TITLE       HEAVY DUTY BATTERY (24V) INSTALLATION

EFFECTIVITY

MODEL(S)     SERIAL NUMBERS

172R         17280001 and On
172S         172S8001 and On

DESCRIPTION

This modification kit provides instructions to replace the existing standard battery (24V) with a heavy
duty battery (24V).

APPROVAL

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

REFERENCE


CHANGE IN WEIGHT AND BALANCE

MODEL     172R/172S
WEIGHT INCREASE  4 Pounds
ARM  -5 Inches
RESULTANT MOMENT  -20 Inch-Pounds
MOMENT/1000  -0.020 Inch-Pounds

September 13, 1999
MATERIAL INFORMATION

This modification kit covers installation for one airplane:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-24-03</td>
<td>1</td>
<td>Kit, Consisting of the following parts:</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Instructions</td>
</tr>
</tbody>
</table>

In addition to this kit, the following part must be ordered to complete the installation:

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C614002-0102</td>
<td>1</td>
<td>Battery, Heavy Duty (24V)</td>
</tr>
</tbody>
</table>

ACCOMPLISHMENT INSTRUCTIONS

1. Ensure that all switches are in the “OFF” position and attach maintenance warning tags in full view stating:

   **DO NOT CONNECT ELECTRICAL POWER-MAINTENANCE IN PROGRESS**

2. Remove the left upper engine cowling and loosen left side lower cowl fastener. (Refer to Model 172 Series 1996 And On Maintenance Manual, Chapter 71, Cowling-Maintenance Practices.)

3. Disconnect electrical power from the airplane by disconnecting the battery and removing all external electrical power.


5. (Refer to Figure 1.) Install C614002-0102 Battery. (Refer to Model 172 Series 1996 And On Maintenance Manual, Chapter 24, Battery-Maintenance Practices.)

   **NOTE:** After bolt head or nut has seated against “mounting ears”, torque to 20-25 inch-pounds.

6. Reconnect the airplane battery.


8. Remove the maintenance warning tags.

9. Update weight and balance information in accordance to the changes listed in this modification kit.

10. Make an entry in the airplane logbook stating this modification kit has been installed.
MODIFICATION KIT

MK172-24-03

Figure 1. Battery Installation. (Sheet 1)

BATTERY AND
INSTALL NEW
C614002-0102
BATTERY (24V)
(1 REQUIRED)

BATTERY TRAY
(REFERENCE)

REMOVE EXISTING
BATTERY AND
INSTALL NEW
C614002-0102
BATTERY (24V)
(1 REQUIRED)

BATTERY COVER
(REFERENCE)

MOUNTING EAR
(REFERENCE)

BATTERY CABLE
(REFERENCE)

BATTERY VENT LINE
(REFERENCE)

MOUNTING EAR
(REFERENCE)

BATTERY GROUND CABLE
(REFERENCE)

FIREWALL
(REFERENCE)

BOLT
(REFERENCE)

DETAIL A