Service Bulletin

June 25, 2001

TITeL
IGNITION SWITCH CENTER GROUND TERMINAL INSPECTION

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17280983</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S8686, 172S8694</td>
</tr>
<tr>
<td></td>
<td>thru 172S8696, 172S8698 and 172S8699</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280927, and 18280929</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 thru 20608136</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 thru T20608250</td>
</tr>
</tbody>
</table>

REASON
To transmit ACS Products Co. Service Bulletin SB01-01, Rev. 1 which requires an inspection of the ignition switch terminal board for a loose center ground terminal.

DESCRIPTION
It has been determined that some ignition switch terminal boards may have a loose center ground terminal. The ignition switch terminal board should be inspected, and if required, the terminal board should be replaced as described in this service bulletin. Non-compliance with this service bulletin may result in less than acceptable grounding of the ignition switch.

COMPLIANCE
Recommended; should be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

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

0.8 man-hour to inspect the ignition switch

If required, add 0.6 man-hour to replace the ignition switch terminal board

REFERENCES

ACS Products Co. Service Bulletin SB01-01, Rev. 1 (or latest revision)


NOTE: Ensure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual and should be accomplished within the specified time requirement.

OTHER PUBLICATIONS AFFECTED

Model 172R And Model 172S Illustrated Parts Catalog

Model 182/T182 Illustrated Parts Catalog

Model 206H And Model T206H Illustrated Parts Catalog

NOTE: Ensure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The following is available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty/Airplane</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-3770</td>
<td>Ignition SwitchTerminal BoardRepair Kit</td>
<td>1 (if required)</td>
<td>$ 29.30 (PS) ea.</td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CREDIT INFORMATION

A labor allowance credit of 0.8 man-hour per airplane will be provided to inspect the ignition switch. If required, applicable ACS repair kit parts credit and an additional 0.6 man-hour labor allowance credit will be provided to replace the ignition switch terminal board as described in Service Bulletin SB01-74-01/ACS Service Bulletin SB01-01, Rev. 1 (or latest revision).

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station before the dates shown below. The removed ignition switch terminal board must be returned with the Warranty Claim.

- Domestic .................................................. June 25, 2002
- International ................................. June 25, 2002

Page 2
ACCOMPLISHMENT INSTRUCTIONS

Weight And Balance Information

MODEL ....................... 172R, 172S, 182S, 206H, T206H
WEIGHT CHANGE ............ Negligible

Material Information
The following parts may be required:

<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>None</td>
<td>As Required</td>
<td>Green Paint</td>
<td>None</td>
<td>Obtain Locally</td>
</tr>
<tr>
<td>A-3770</td>
<td>1 (if required)</td>
<td>Terminal Board Repair Kit</td>
<td>A3600</td>
<td>Return to Cessna</td>
</tr>
</tbody>
</table>

Instructions

1. Electrically ground the airplane and turn all switches to the "OFF" position. If external power is connected to the airplane, disconnect external power from receptacle.

2. Remove cowling or battery access panel as required and disconnect the battery. (Refer to the appropriate model Maintenance Manual, Chapter 24, Electrical Power.)

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

**WARNING:** WHEN THE IGNITION WIRES ARE DISCONNECTED, BOTH MAGNETOS ARE "HOT". IF THE PROPELLER IS MOVED DURING THIS TIME, THE MAGNETOS COULD GENERATE A SPARK AND CAUSE THE ENGINE/PROPELLER TO ROTATE AND/OR START WHICH COULD CAUSE SERIOUS OR FATAL INJURY TO PERSONNEL.

**CAUTION:** NOTE THAT THE POSITIONS OF THE "BAT" AND "S" TERMINALS ON THE NEW (GREEN) TERMINAL BOARD ARE REVERSED FROM THEIR POSITIONS ON THE TERMINAL BOARD THAT IS BEING REPLACED.

4. (Refer to Figure 1, Sheet 1 and Sheet 2.) Perform Steps 1 through 4 of the Accomplishment Instructions of ACS Products Co. Service Bulletin SB01-01 Rev. 1 (or latest revision).

**NOTE:** The new A-3770 Kit includes prelubricated parts. Lubrication interval is 2000 hours. (Refer to the appropriate model Maintenance Manual, Chapter 74, Ignition Switch- Inspection/Check.)

5. Remove maintenance warning tags from the battery and external power receptacle.

6. Reconnect the battery and reinstall the cowling or battery access panel as required. (Refer to the appropriate model Maintenance Manual, Chapter 24, Electrical Power.)

7. Complete Step 5 of the Accomplishment Instructions of ACS Products Co. Service Bulletin SB01-01 Rev. 1 (or latest revision) and perform an operational check of any system disturbed to accomplish this procedure. (Refer to the applicable sections of the appropriate model Maintenance Manual.)

8. Make an entry in the airplane logbook stating compliance and method of compliance with this service bulletin.
MODEL 172 SHOWN, OTHER MODELS SIMILAR

CIRCUIT PANEL ASSEMBLY (REFERENCE)

DETAIL A
VIEW LOOKING FORWARD AT LOWER CIRCUIT PANEL ASSEMBLY ON PILOT SIDE

Figure 1. Ignition Switch Inspection/Repair (Sheet 1)
NOTE: FINGER PRESSURE MUST NOT CAUSE THE TERMINAL TO MOVE. ANY PIVOTAL MOVEMENT AROUND THE TERMINAL RIVET NECESSITATES TERMINAL BOARD ASSEMBLY REPLACEMENT.

VIEW ROTATED 90° LOOKING AT TERMINAL SIDE

Figure 1. Ignition Switch Inspection/Repair (Sheet 2)
OWNER NOTIFICATION

On July 9, 2001 the following Owner Advisory message will be sent to applicable owners of record in SB01-74-01A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB01-74-01 has been issued to transmit ACS Service Bulletin SB01-01, Rev. 1 which requires an inspection of the ignition switch terminal board installed in your airplane for a loose center ground terminal.

It has been determined that some ignition switch terminal boards may have a loose center ground terminal. The ignition switch terminal board should be inspected, and if required, the terminal board should be replaced as described in these service bulletins. Non-compliance with Service Bulletin SB01-74-01/ACS Service Bulletin SB01-01, Rev. 1 (or latest revision) may result in less than acceptable grounding of the ignition switch.

Compliance is recommended; should be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual and should be accomplished within the specified time requirement.

A labor allowance credit of 0.8 man-hour per airplane will be provided to inspect the ignition switch. If required, applicable ACS repair kit parts credit and an additional 0.6 man-hour labor allowance credit will be provided to replace the ignition switch terminal board as described in Service Bulletin SB01-74-01/ACS Service Bulletin SB01-01, Rev. 1 (or latest revision).

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station before the dates shown below.

<table>
<thead>
<tr>
<th></th>
<th>Domestic</th>
<th>International</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>June 25, 2002</td>
<td>June 25, 2002</td>
<td></td>
</tr>
</tbody>
</table>

Please contact a Cessna Single Engine Service Station for detailed information and arrange to have Cessna Service Bulletin SB01-74-01/ACS Service Bulletin SB01-01, Rev. 1 (or latest revision) accomplished on your airplane.

* * * * * * *
ACS SERVICE BULLETIN SB01-01

PURPOSE

This Service Bulletin provides instructions for inspection of ACS ignition switches for tightness of the center ground terminal and for replacing the terminal board assembly if the center terminal is loose.

ACCOMPLISHMENT INSTRUCTIONS

1. SWITCH REMOVAL

   A. Disconnect battery.

   B. Remove switch assembly from instrument panel by removing decorative nut on aft side of panel.

2. INSPECTION OF CENTER GROUND TERMINAL

   Hold switch body firmly and, using finger pressure only, attempt to move the center ground terminal from side to side around the rivet that secures the terminal to the nylon terminal board assembly.

   NOTE: Wiring need not be removed from switch terminals if wiring is of sufficient length to allow switch assembly to be moved to a position where inspection of the center terminal can be accomplished. If it is necessary to remove wires to provide access to the center terminal, tag or mark the wires for reinstallation.

   CAUTION: WHEN THE IGNITION WIRES ARE DISCONNECTED, BOTH MAGNETOS ARE "HOT". IF THE PROPELLER IS MOVED DURING THIS TIME, THE ENGINE MAY FIRE AND CAUSE SERIOUS OR FATAL INJURY TO PERSONNEL

   If center terminal is found to be tight on its rivet, reinstall all ignition switch wires to their proper terminals on the terminal board.

   Apply a dab of green paint to the rivet of center terminal to indicate compliance with this Service Bulletin. Proceed to Step 4 - "Reinstallation of Ignition Switch".

   If center terminal is found to be loose on its rivet, proceed to Step 3 - "Repair of Ignition Switch with Loose Center Terminal".

3. REPAIR OF IGNITION SWITCH WITH LOOSE CENTER TERMINAL

   A. MATERIALS REQUIRED

   Terminal Board Repair Kit, P/N A-3770 - Consists of A-548-A Terminal Board Assembly (prelubricated) and three A-1196-A Triangular Contacts. The green color of the new nylon terminal board indicates that
compliance with the Service Bulletin has been accomplished by installation of a new terminal board assembly.

The Terminal Board Repair Kit is available from ACS Products Co., P.O. Box 152, Lake Havasu City, AZ 86405-0152 [Phone: (520) 855-8613  FAX: (520) 855-2104]

B. PROCEDURE

Hold ignition switch firmly and, with the terminal board assembly on top, remove the two screws and washers holding the terminal board assembly to the switch body. Lift the terminal board assembly from the switch body, being careful not to lose the three springs and triangular contacts. Leave all wires attached to the old terminal board assembly at this time.

Replace the original three triangular contacts with the new triangular contacts furnished in the Repair Kit.

Place the replacement terminal board assembly on the switch body, being careful to position the springs and triangular cups so that there is no binding of the cups in the body.

Secure the terminal board to the switch body with the two screws and retaining washers.

Attach ignition switch wires to proper terminals on the replacement terminal board assembly.

*CAUTION* - Note that the positions of the "BAT" and "S" terminals on the new (green) terminal board are reversed from their positions on the old terminal board.

4. REINSTALLATION OF IGNITION SWITCH

Reinstall ignition switch in instrument panel, reversing the procedure of Step 1 ("Switch Removal").

Reconnect battery.

5. FUNCTIONAL CHECK

Perform functional check of switch by starting engine and checking magnetos for normal engine RPM drop. Reduce the engine RPM to idle and turn the switch off momentarily to verify that the OFF position stops the engine. With engine in idle, stop engine by moving mixture control to idle cutoff position.

6. LOGBOOK ENTRY

Make an entry in the airplane logbook stating that this Service Bulletin has been complied with and method of compliance.

To obtain satisfactory results, the procedures described in this Service Bulletin must be performed in accordance with accepted industry maintenance practices. Inasmuch as ACS Products Co. has no opportunity to supervise the accomplishment of this Service Bulletin, it cannot be responsible for the quality of the work performed.