

Service Letter: 441

Date: April 15, 2015

Title: Sealed Battery Installation; Also, Global Alternative Method of Compliance (AMOC) to AD 72-18-03

Models: 7GCAA, 7GCBC, 7KCAB, and 8KCAB

Description: This service letter provides instructions for the installation of a sealed battery and duplicates instructions for the continued airworthiness of the battery and battery box from the airplane service manual. Compliance with this service letter is considered a global AMOC to AD 72-18-03.

Procedure:

Step 1

Inspect control cables and airframe in accordance with paragraphs a) and b) of AD 72-18-03. It is necessary to remove the battery, battery box, and tray from the aircraft to complete this inspection. Paragraphs a) and b) from the AD are repeated here for easy reference:

a) Inspect the elevator and rudder control cables in the battery area for evidence of corrosion caused by battery acid spillage. If any evidence of control cable corrosion is found, replace the corroded cables before further flight, except that the airplane may be flown in accordance with FAR 21.197 to a base where the repair can be performed.

b) Inspect the battery compartment area for evidence of battery acid corrosion of airframe components other than control cables. If any corrosion is found, neutralize the affected areas with a soda water solution. Repair damage, as necessary.

Step 2

Visually determine if a 4-1995 battery box is installed using Figure 1; the 4-1995 box is of aluminum sheet construction. The 4-1995 battery box was original equipment on mid-1993 and later models. If not present, install the following components in accordance with ACAC drawing 4-1782, Installation - Battery, rev. L, dated 9-8-2003 or later revision:

- 1) 4-1995 Battery Box Assembly
- 2) 11-0852 Hold Down
- 3) 2-2240 Cover
- 4) AN526-1032R8 Screws (4 Req'd)

If a 4-1995 battery box is installed proceed to Step 3.

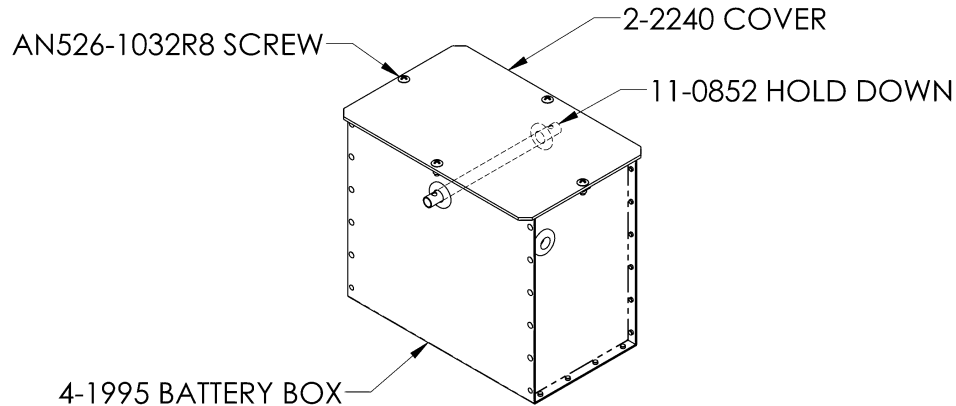


Figure 1, 4-1995 Battery Box and Components

Step 3

Determine if a sealed battery is installed. The following sealed batteries are approved; other batteries may be installed but require separate approval and must be of a sealed design. Install battery in accordance with ACAC drawing 4-1782, Installation – Battery, rev. L, dated 9-8-2003 or later revision.

- 1) Concorde RG-25 (Standard)
- 2) EnerSys SBS J16 (Optional)
- 3) Johnson Controls U131 (Obsolete)
- 4) Deka 8SU1 (Obsolete)

Instructions for Continued Airworthiness:

These battery and battery box maintenance instructions are not a change to the repetitive inspections of AD 72-18-03, and only duplicate what is provided in the airplane service manual.

Visually inspect battery and battery box at every 100-hour or annual inspection as follows:

1. Remove lower interior panel.
2. Remove battery box cover.
3. Disconnect power and ground leads from battery terminals.
4. Remove nuts securing the battery hold down.
5. Lift battery and box from aircraft, remove hold down rod, lift battery from box.
6. Inspect box and adjacent areas for indications of acid leakage.
7. If leakage is present neutralize acid, repair damage, and replace battery.
8. Check battery for condition and charge.
9. Install battery and battery box in reverse of removal.