

2 Modification Description

NOTE:

This Installation Instruction is concerned with structural issues only and does not address the electrical features of each aircraft for which installation is sought.

Only PMA'd batteries should be used with this STC.

The modification consists of mounting a stainless steel battery box on the left hand side firewall of the applicable aircraft. The battery box is supplied PMA'd for installation. The corresponding original battery and associated hardware may be removed from the rear underfloor.

The battery box is attached with four (4) #10 screws through the firewall. This box holds a lightweight gel cell 12 volt battery. The front of the battery box has two (2) holes to which a electrical starter contact relay may be mounted. A latch is provided to secure the battery in the box.

The battery may be installed straight or tilted as shown to facilitate ease of battery removal.

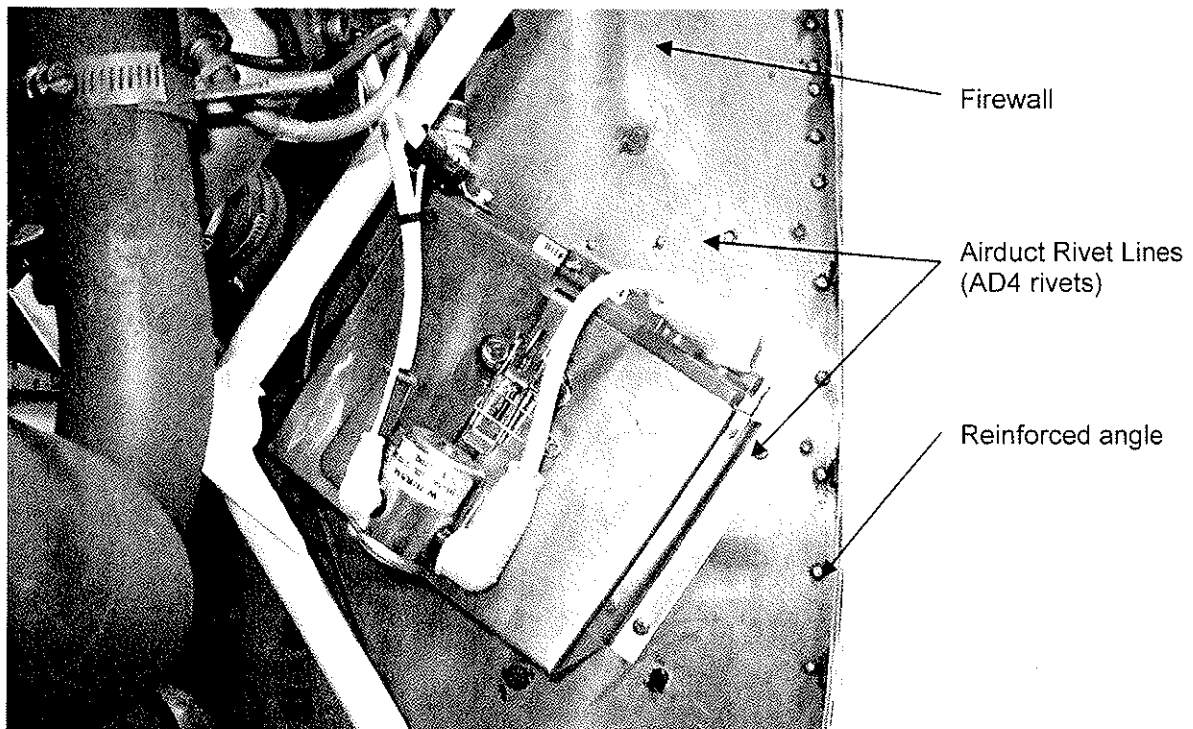


Figure 2.1: Typical Battery Box Installation on Firewall (forward).

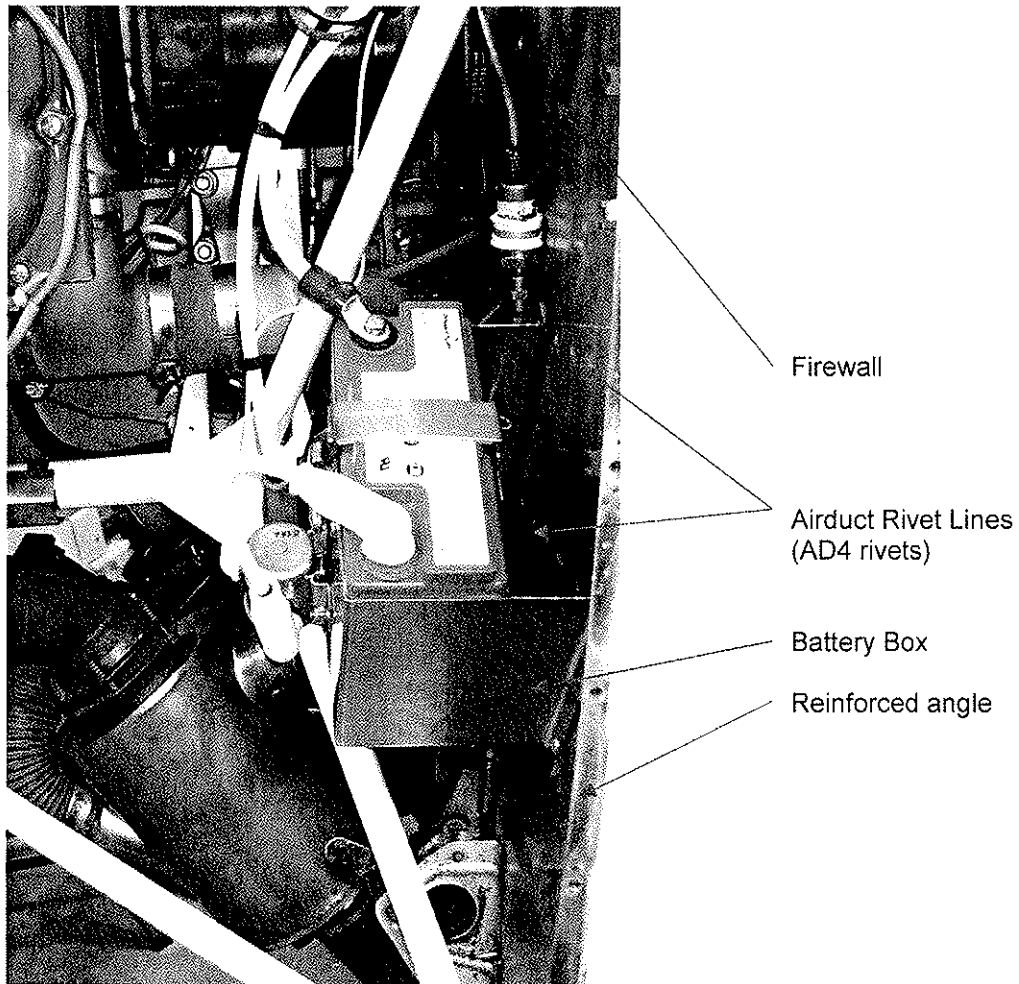


Figure 2.21: Typical Battery Box Installation on Firewall (side).

3 Initial Installation

NOTE:

PRIOR TO STARTING WORK

Turn OFF, all BATTERY SWITCHs in aircraft prior to starting work on the battery and electrical system. Disconnect both leads of battery, secure and stow properly.

Prior to installation of the firewall battery box it is assumed that the original battery, associated housing, electrical equipment and wires have been removed. The removed equipment weight and location should be documented for modification of the equipment list and weight and balance of the aircraft.

Additionally the left side of the firewall must be clear of mounted equipment. If the aircraft for installation has a seaplane engine mount the battery box will need to be mounted lower than shown. The following installation photo show preferred locations for the installation.

The battery box must be secured in the following manner (ref. figure 2)

- Total of four (4) #10 structural screws to be used.
- Each screw will attach to a permanently mounted nutplate on the rear side of the firewall.
- Two of four (2/4) of the screws must be attached to **either** the duct work or to the edge reinforcement angle.
- The battery box may be tilted as shown in the section 3.1 photos.