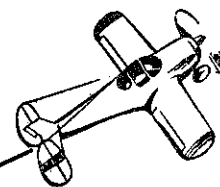


Ercoupe **BULLETIN**

SUBJECT: Battery Box—Modification of



Electrolyte leaking from the battery box will cause corrosion of structural members of the aircraft and deterioration of the baggage compartment. This can occur only when acid is spilled from the battery due to improper servicing of the battery. Proper battery servicing and electrical system checks are described in Service Department Information Memorandum No. 23 and No. 44.

This bulletin is prepared to provide instructions for modifying the battery box. Two modifications are described. Part A provides for the addition of a decalcomania on the battery box cover carrying a set of instructions for servicing the battery. Part B provides for the addition of an extension plate to the battery box. This extension, when completed, will reduce the possibility of acid entering the fuselage structure if spilled within the box.

PART A

This modification is considered necessary in view of the excessive number of reports concerning improper battery servicing. To that end the material required will be supplied to Ercoupe Distributors and Dealers on a no charge basis. Instructions for the installation are as follows:

1. Modification of Battery Box Cover:

- a. Modify battery box cover as follows:
- (1) Remove battery box cover.
 - (2) Remove the existing placard and clean the upper surface of the cover. Use dope thinner to loosen the cellulose tape.
 - (3) Install the Decalcomania (415-54062), centered, on the top of the cover.
 - (4) Apply one coat of clear lacquer over the newly installed decalcomania.

PART B

This modification is presented for those who desire to add it to their Ercoupe. It may protect the interior of the airplane from corrosion by battery acid spilled during careless or improper battery service. The material required may be obtained through any Ercoupe Distributor or Dealer. The modifications shall be made as follows:

1. Removal of Battery Box (415-54035)

- a. Remove the Battery box as follows:
- (1) Remove battery box cover (415-54040) by unscrewing wing bolts, being certain that master switch is "off."
 - (2) Disconnect battery terminal cables. Disconnect the negative (grounded) cable first to prevent short circuiting the battery to the structure.
 - (3) Remove battery (415-54044-20) from battery box.
 - (4) Remove battery box from support assembly (415-54041) after removing the six self-locking nuts (415-54035-5) and six truss head screws (415-54035-6 and 415-54035-7). The two shorter truss head screws (415-54035-6) are installed in the middle battery box attachment holes.

2. Modification of Battery Box: (415-54035)

- a. Modify battery box as follows:
- (1) Install battery box extension plate (415-54043) as illustrated in Figure 1, Page 3, using ten Universal Head Rivets (GLM25-2AD3-3) and one Universal Head Rivet (GLM25-2AD3-4), placing heads on inside of box, except the rivet holding extension plate seam which should have head facing outside. Apply Zinc Chromate between faying surfaces before installing the plate.

- (2) Remove the two square bumper pads (415-54036), above battery terminals, from battery box cover.
- (3) Secure, with 3M#711 Cement, the six Neoprene Sponge Rubber Pads (415-54040-5, 415-54040-6, 415-54040-7) in Battery Box Cover as illustrated in Figure 1, Page 3.
- (4) Paint extension plate with two coats of Zinc Chromate Primer and then two coats

of Asphaltum Acid Resistant Paint. If there are any bare spots in battery box, it is advised to also touch these up with above finishes.

3. Installation of Battery Box and Battery:

a. Reinstall battery box and battery in reverse order of Para. 1.

- (1) Connect positive cable first.

The Battery Box Modification Kit No. 8 consists of the following:

<i>Nomenclature</i>	<i>Part No.</i>	<i>No. Req. per Airplane</i>
Decalcomania	415-54040-5	1
Pad; Neoprene Sponge Rubber (3/16 x 3/4 x 1-1/4).....	415-54040-5	2
Pad; Neoprene Sponge Rubber (3/16 x 3/4 x 5-9/16).....	415-54040-6	2
Pad; Neoprene Sponge Rubber (3/16 x 3/4 x 8-15/16).....	415-54040-7	2
Plate; Battery Box Extension.....	415-54043	1
Rivet; Universal Head (GLM25-2AD3-3).....	415-54035-3	10
Rivet; Universal Head (GLM25-2AD3-4).....	415-54035-4	1

