

Chap 3 ELECTRICAL
Card 6
A.L.24

SERVICING NOTES
HUNTER F.6,T.7,T.7A,G.A.9 & F.R.10

A.P.4347F,G,J,K & R Vol 4/5
Pt 1 Bk 2 Sect 1 (1st Ed)

1. Lead Acid Batteries.

- a. When removing lead acid batteries, the negative cable lead is to be disconnected first.
- b. When fitting batteries, the positive cable lead is to be connected first.

2. Battery Stowage and Adjacent Structure. Whenever batteries are removed for servicing, stowages and adjacent aircraft structure are to be examined.

3. Firewire Element System.

- a. Connector and element end fittings are to be kept clean and moisture free.
- b. Should element end fittings or connexions require to be cleaned the following procedure is to be carried out:-

(1) If the contaminating particles appear to be loose and dry and show no sign of oily deposits they are to be removed with a dry soft haired brush ensuring no brush hairs remain in the fittings/connectors.

(2) If oily deposits are present, brush out affected end fitting or connector with methylethyleketone (33C/1322), no other cleaning solvent is to be used, and allow to dry for a minimum of 10 minutes. If dry bottled air or nitrogen is available this is to be used for a minimum period of 30 seconds. Any items showing signs of corrosion are to be replaced. Throughout the above cleaning operations it is essential that both ends of a connector be removed, and that the amount of cleaning solvent used be kept to a minimum to lessen the risk of trapped solvent.

- (3) An insulation test at 250 volts is to be carried out after cleaning. The insulation resistance of individual components is to be a minimum of 20 megohms, whilst connected and installed systems is to be 1 megohm minimum.
- c. Whenever couplings or connexions are broken it is essential that protective caps are fitted immediately (5CZ/6793 for element end fittings, and 5CZ/6794 for bulkhead fittings and couplings units).
 - d. Grease is not to be used on gland nuts.
 - e. When a firewire element is replaced or disconnected a new copper 'S' washer (5CZ/5553) is to be fitted.
 - f. Gland nuts are to be tightened using torque wrench (1C/7149 or 1C/7155) set to 90 PLUS OR MINUS 10 lb in. with associated crowfoot adapter (1L/328) and wire locked using 22 SWG stainless steel wire (30A/9437135).
 - g. Except at clipping points, elements are to have at least a 1/4 inch clearance from adjacent surfaces throughout their length.
 - h. Whenever firewire is disconnected, on reconnexion the following tests are to be carried out:-
 - (1) An insulation resistance test of complete element installation, minimum permissible resistance 1 megohm.
Note:- Application of resistance tester is to be limited to a maximum of 5 seconds.
 - (2) Continuity of the system is to be proved by using the 'press to test' facility.

(Continued)

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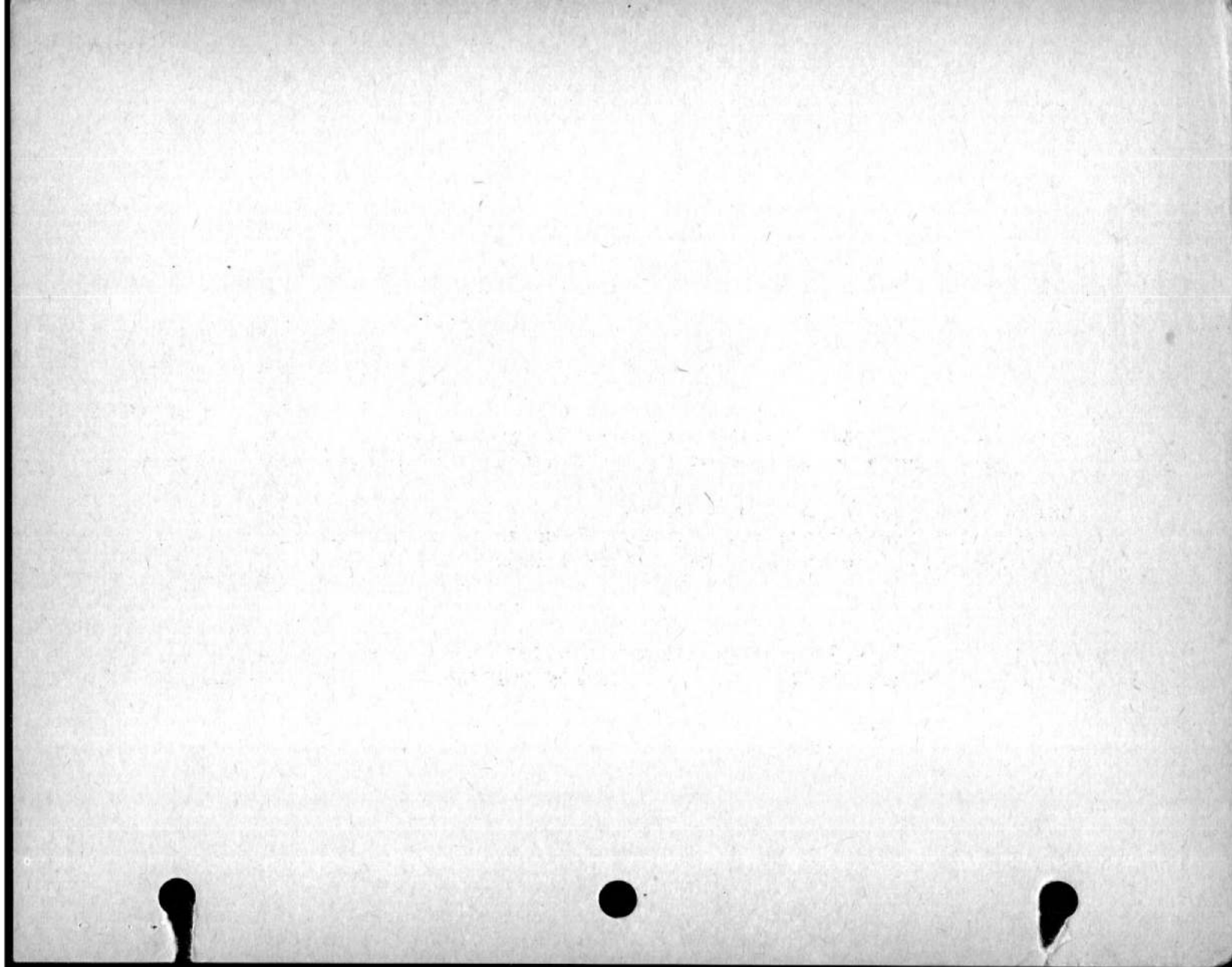
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4. External Power Supplies.

- a. Before connexion to the aircraft ground supply sockets, particular attention is to be paid to the condition of the -VE pin on the trolley/aircraft connexion.
- b. Before connecting external power supplies check for correct voltage and frequency.

5. Cables and Cable Looms - Identification. Tradesmen are to ensure that identification markings on all aircraft armament electrical systems in areas serviced are legible.



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