

# DESCRIPTION AND MAINTENANCE INSTRUCTIONS BOOSTER COILS MAINTENANCE AND ADJUSTMENT



(This EO Cancels AFMI M9/12 dated 31 Oct 1942)

## GENERAL

1 For access to the contacts of shielded units, loosen the shielding spout nuts, remove the housing cover screws and lift off the housing cover. Inspect vibrator contacts using crocus cloth to polish dirty, burned or slightly pitted contacts or lightly corroded grounding strips. Replace the booster coil if the contacts are badly pitted or burned.

(a) If inspection has disclosed that the contacts must be resurfaced proceed as outlined. Use a coarse grade oilstone to remove burned or pitted surface of the contacts. Finish the surface of each contact with a fine and coarse grit combination oilstone Ref. 1T/1465. Keep the contact surface flat and square with the axis of the contact.

## Cleaning

2 Use unleaded gasoline or any other suitable solvent to thoroughly clean the booster coil parts. Do not immerse the coil and housing assembly into the solvent, clean by wiping with a solvent moistened cloth. Do not use carbon tetrochloride to clean any part of the booster coil; its use results in corrosion.

## Adjustment

3 If using a spark gap test board, have electrodes set at .059 - .000 + .004. Use AWG size 16 insulated wire to complete the primary circuit connections to the booster coil.

(a) Insert the high tension terminal clip of the special test lead into the high tension spout of the unit.

(b) Ground the high tension cable shielding to the mounting bracket.

(c) Make sure the vibrator contacts are adjusted to an open position.

(d) Close the battery switch.

(e) Turn the adjusting screw in a clockwise direction until the reading of the ammeter is at the value specified for the particular type of coil, approximately 1.8 amps at 18 volts.

(f) Should the gap fail to fire steadily with the vibrator contacts adjusted as instructed repeat the overhaul procedure as outlined in paragraph 1.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF