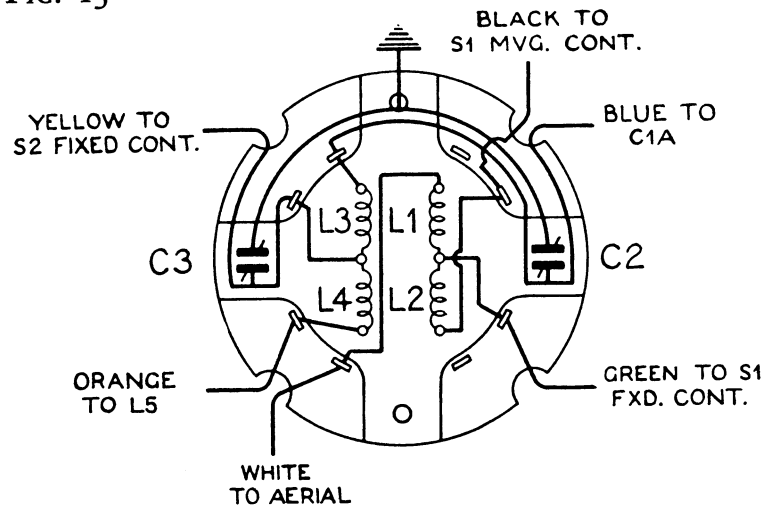


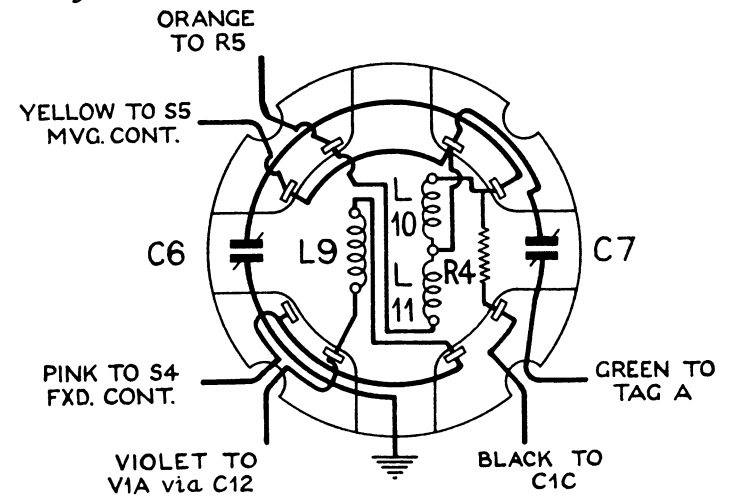
AERIAL COILS

FIG. 13



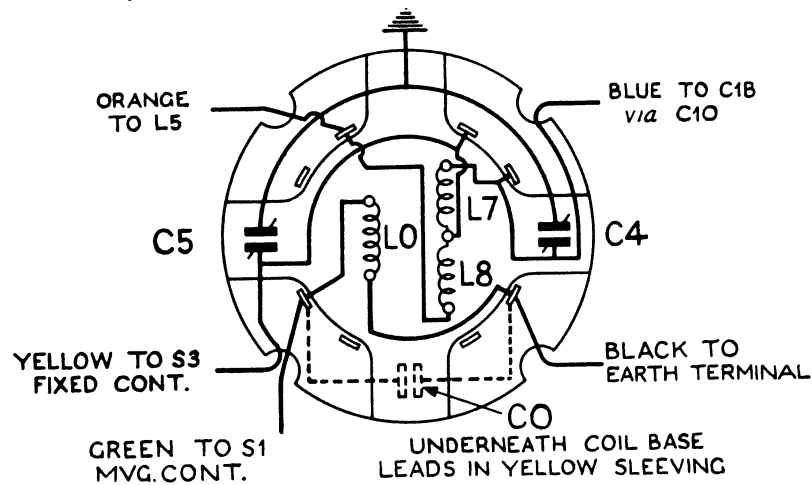
R.F. TRANSFORMER

FIG. 15



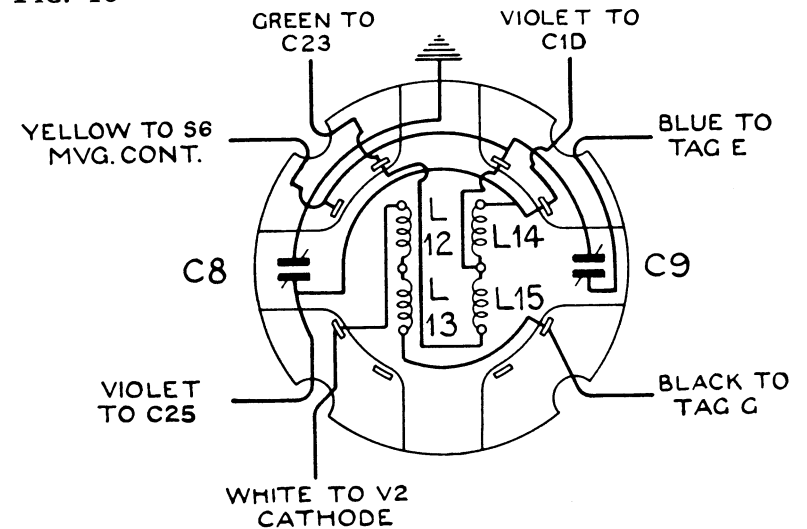
GRID COILS

FIG. 14



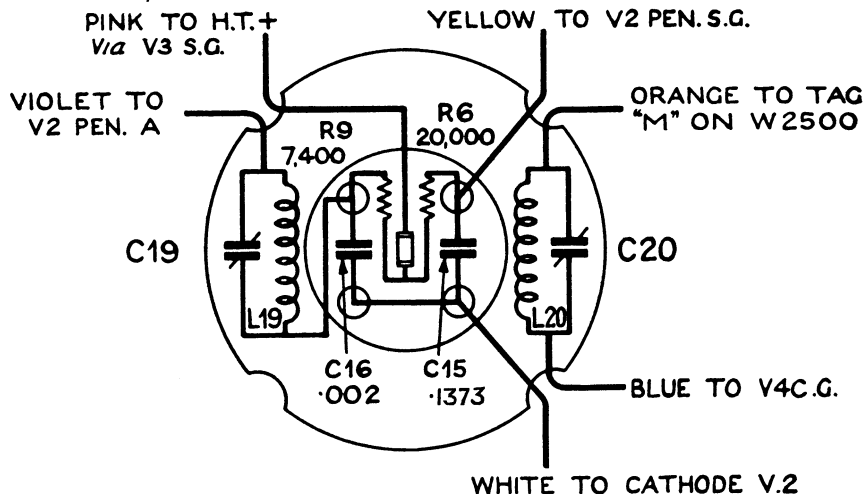
OSCILLATOR COILS

FIG. 16



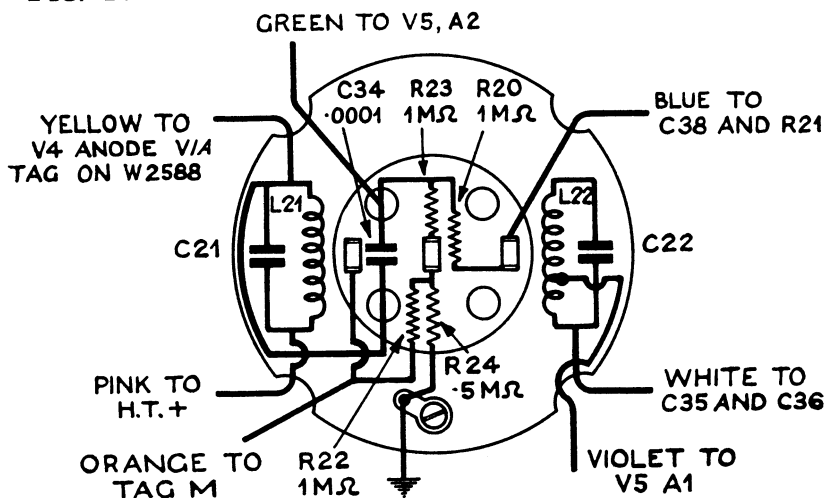
FIRST I.F. COILS

FIG. 17



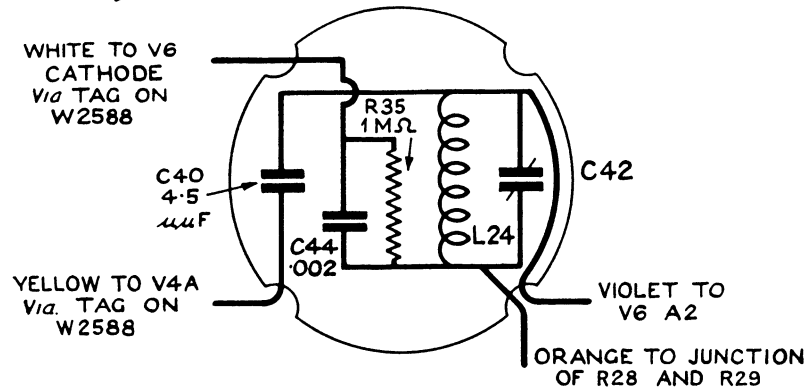
SECOND I.F. COILS

FIG. 18



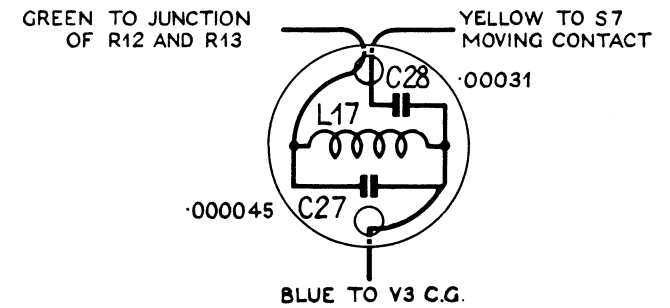
117½ KC/S CONTROL COIL

FIG. 19



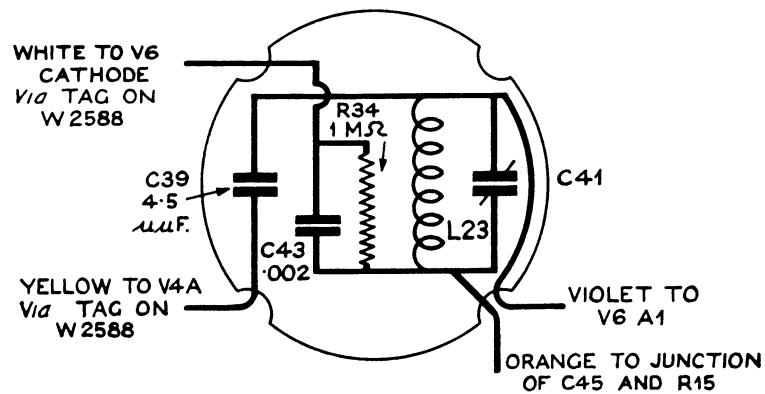
V3 GRID COIL

FIG. 21



120½ KC/S CONTROL COIL

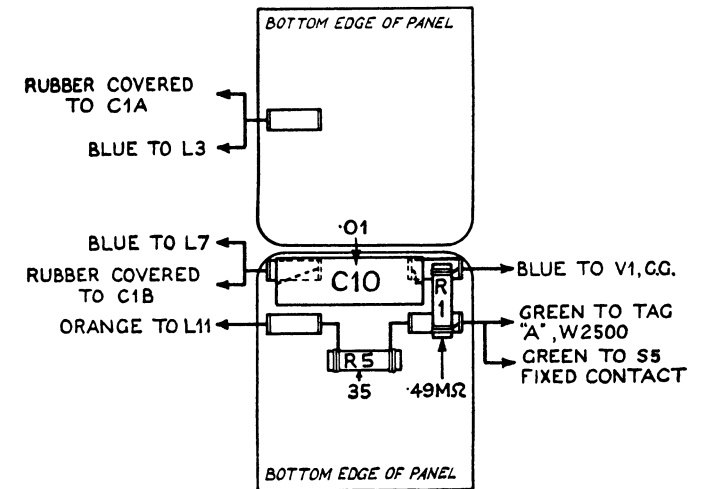
FIG. 20



V2584 ASSEMBLY

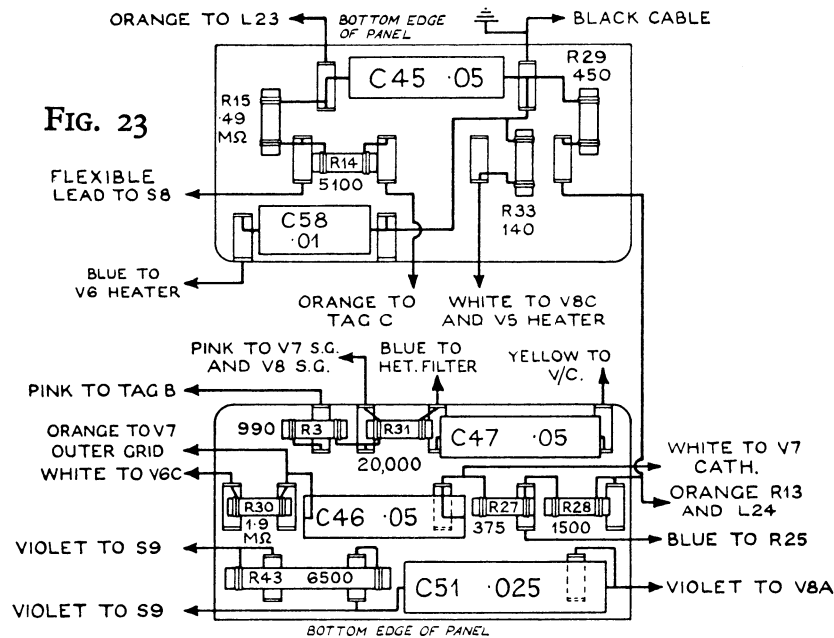
FIG. 22

(Showing both sides of Panel)



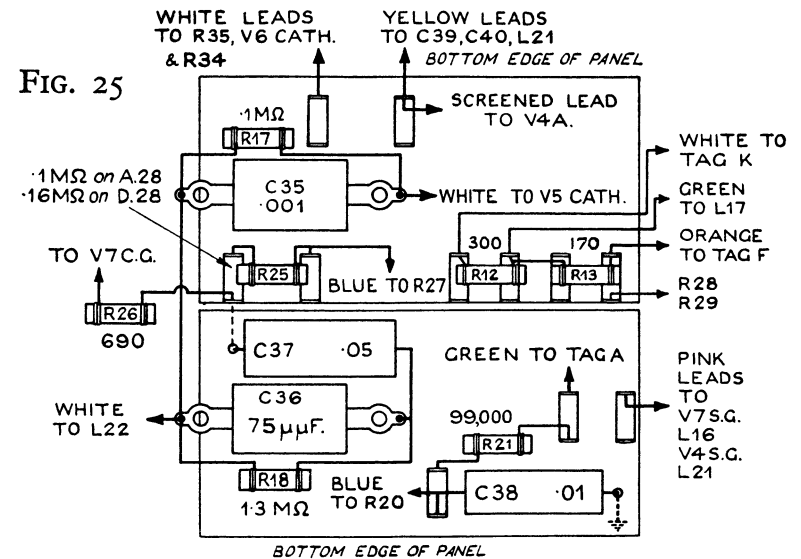
W2587 ASSEMBLY A28C/RG

(Showing both sides of panel)



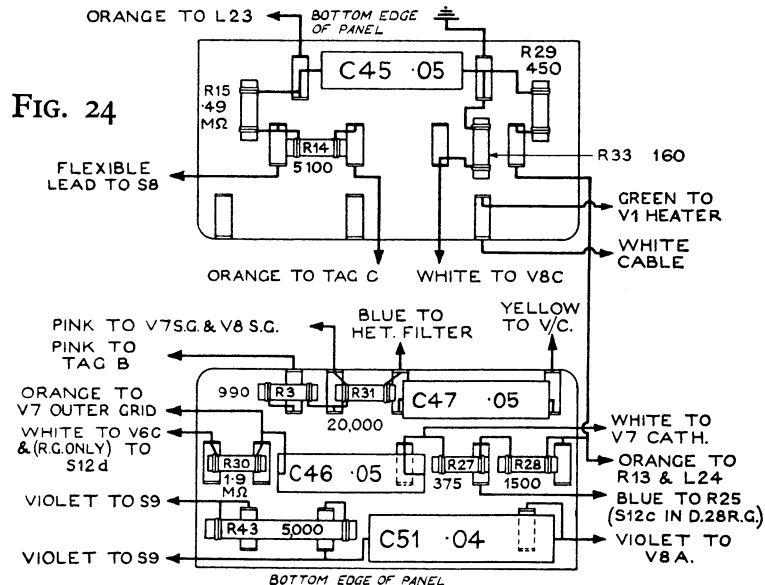
W2588 ASSEMBLY A28C, D28C

(Showing both sides of panel)



W2653 ASSEMBLY D28C/RG

(Showing both sides of panel)



W2588 ASSEMBLY A28RG

(Showing both sides of panel)

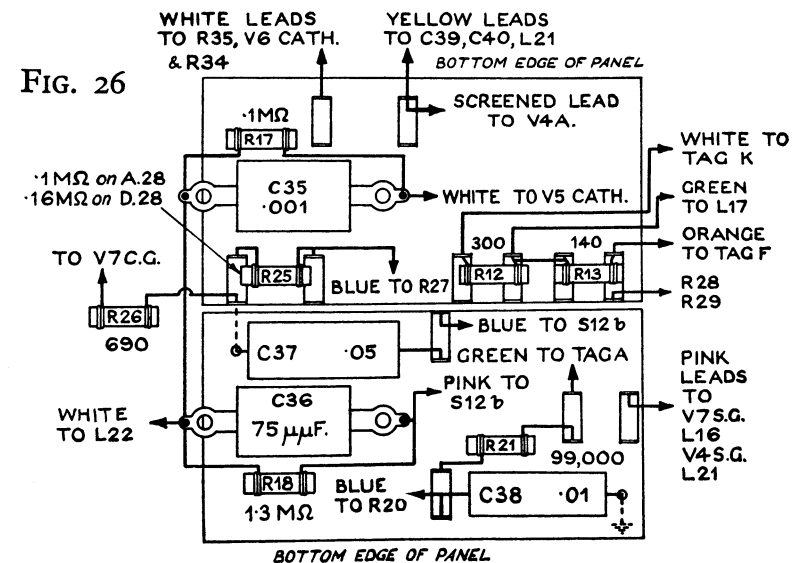
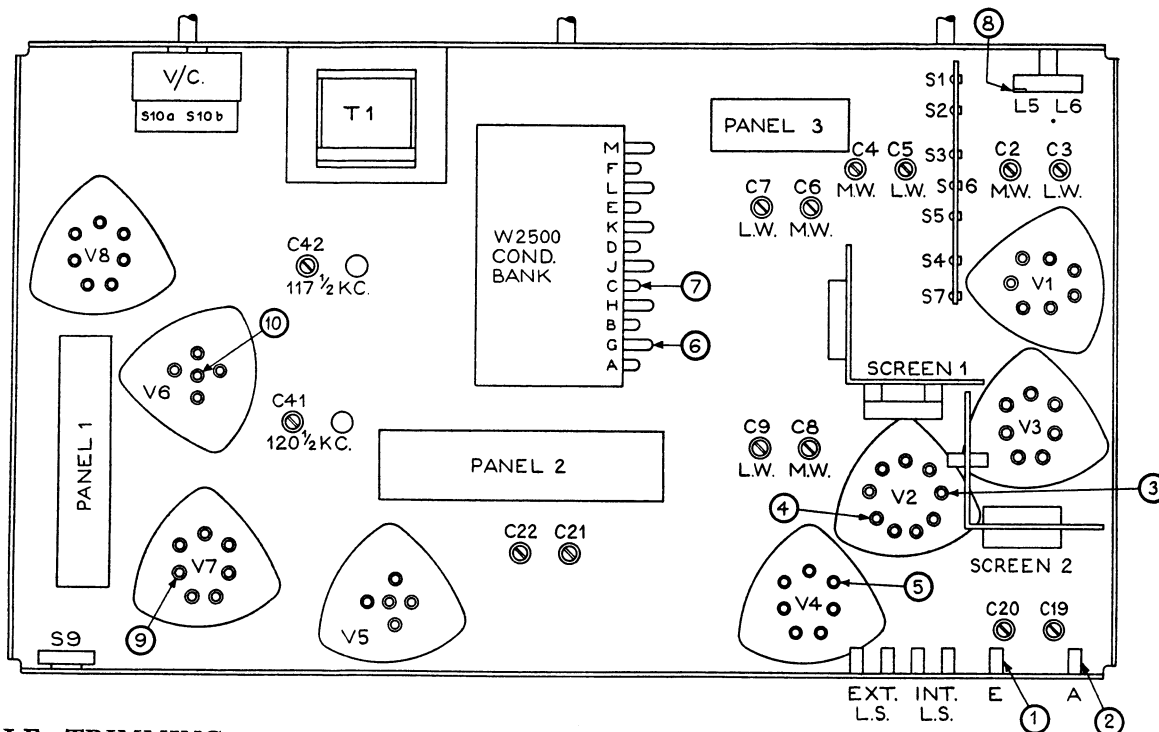


FIG 27.

TRIMMING DIAGRAM

**I.F. TRIMMING**

- (1) Disconnect V1 anode lead and interpose 0—10 millimeter. Join 0.1 mfd condenser between — terminal of meter and E.
- (2) Join (4) to (6) with shorting strap.
- (3) Connect test osc. E to (1), and join test osc. A to (5) via a 0.1 mfd condenser. Do not use dummy aerial.
- (4) Adjust test osc. to 119 Kc/s, and switch on set.
- (5) Adjust C21 for *min.* meter reading.
- (6) Adjust C22 to *max.* of peak between two troughs (see Fig. on page 15).
- (7) Repeat above adjustments to C21, C22.
- (8) Adjust C22 to make two “troughs” equal (see Fig. on Page 15)
- (9) Transfer test osc. input to V2 Pen c.g. (C1C), and switch receiver to L.W.
- (10) Connect 0.1 mfd condenser and .1 M Ω in series between (5) and (1).
- (11) Adjust C19 for *min.* meter reading.
- (12) Transfer res. and condenser combination to (3) and (1).
- (13) Adjust C20 for *min* meter reading.

R.F. TRIMMING

- (1) Close S8, and check calibration. If O.K., proceed to para. (9).
- (2) If not O.K., join together (9) and (10).
- (3) Tune in a station between 220 and 265 metres, ignoring calibration.
- (4) Connect E of test osc. to (1). Attach length of insulated wire to test osc. A socket, and introduce free end into R.F. transformer can.
- (5) Set test osc. to 119 Kc/s (unmodulated) when whistle will appear.
- (6) Set receiver to exact wavelength of station chosen.
- (7) Adjust C8 till whistle falls to zero.
- (8) Proceed as (1) to (7) above, but switch to L.W., trim on C9, and use Luxemburg.
- (9) Connect test osc. via dummy Ae between (1) and (2).
- (10) Switch test osc. to M.W. and to int. mod., and set to about 230 metres.
- (11) Connect O.P. meter to receiver.
- (12) Tune in signal from test osc. for max. O.P. meter reading.

- (13) Adjust C6, C4 and C2 to increase reading.
- (14) Switch receiver and test osc. to L.W., and adjust latter to about 1,200 metres. Tune in signal for max. O.P. meter reading.
- (15) Adjust C7, C5, and C3 to increase reading.
- (16) Replace set in cabinet, bolt down, and recheck calibration.
- (17) If inaccurate, wedge tuning knob with cardboard to keep S8 closed, and trim C8, C9, through hole in cabinet shelf (when included).

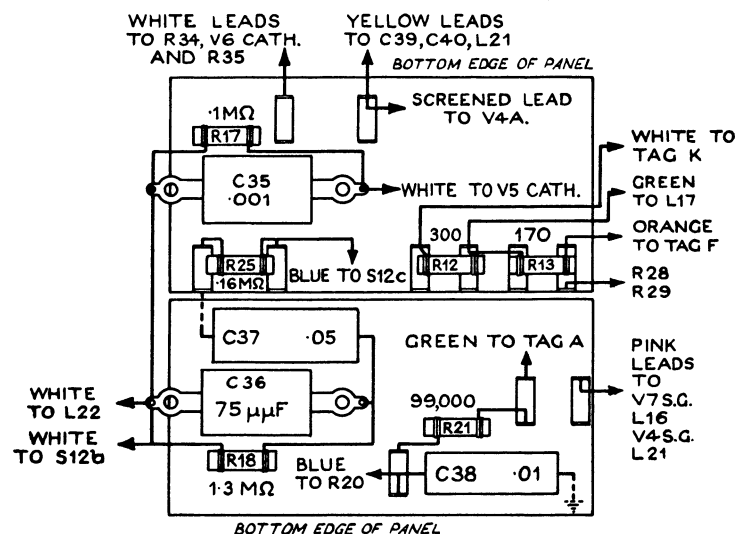
IMAGE FREQUENCY SUPPRESSION

- (1) Join (9) to (10).
- (2) Connect test osc. between (1) and (2), switch to int. mod., adjust to 333 metres, and set output to max.
- (3) Tune receiver a little above 450 metres, when a weak signal should be heard. Tune this in accurately.
- (4) Adjust the erinoid screw at top of grid coil can to *reduce* signal to min.

W2654 ASSEMBLY D28RG

(Showing both sides of panel)

FIG. 28

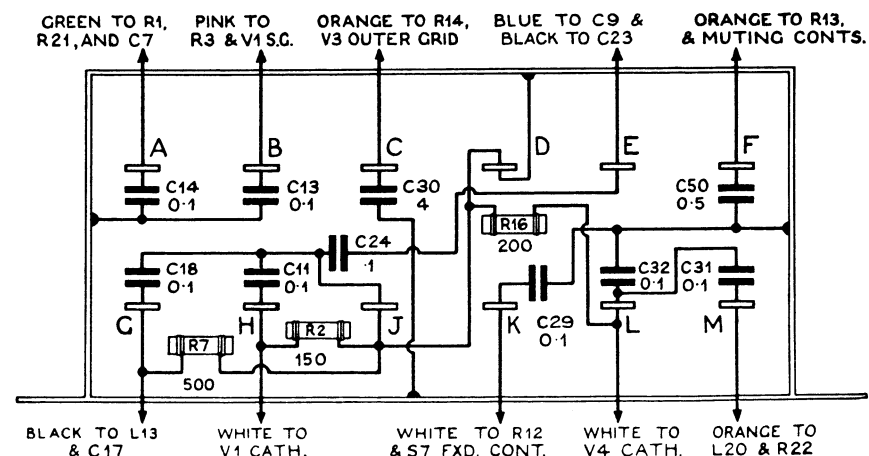


A.T.C. TRIMMING

- (1) Make sure that S8 is open.
- (2) Insert 0—10 millimeter in V3 anode circuit.
- (3) Connect 0.1 mfd condenser between - terminal of meter and E.
- (4) Join (4) to E.
- (5) Disconnect wires from Tag C (7) and join them together.
- (6) Connect test oscillator between (5) and chassis, and adjust to $120\frac{1}{2}$ Kc/s.
- (7) Adjust C41 for *min.* meter current.
- (8) Set test osc. to $117\frac{1}{2}$ Kc/s.
- (9) Adjust C42 for *max.* meter current.
- (10) Check that V3 anode current is normal with test osc. adjusted to 119 Kc/s.
- (11) Check adjustment of C21, C22.

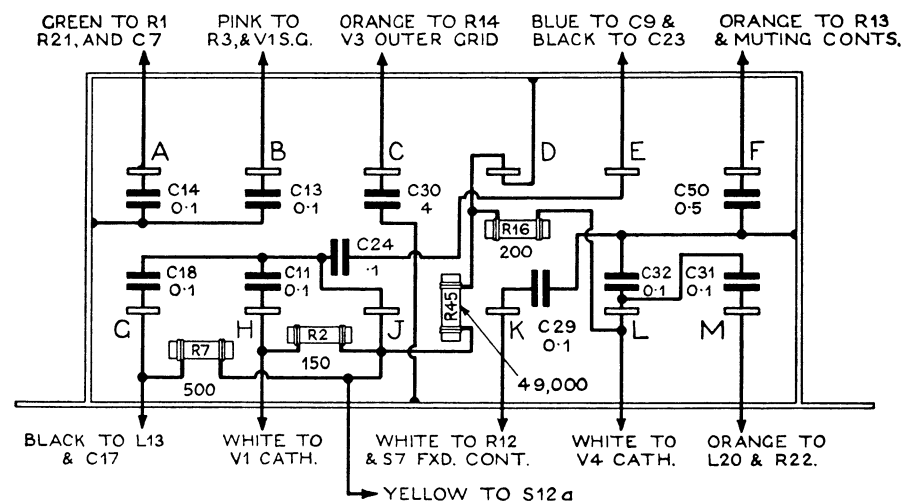
W2500 BANK A28C & D28C

FIG. 29



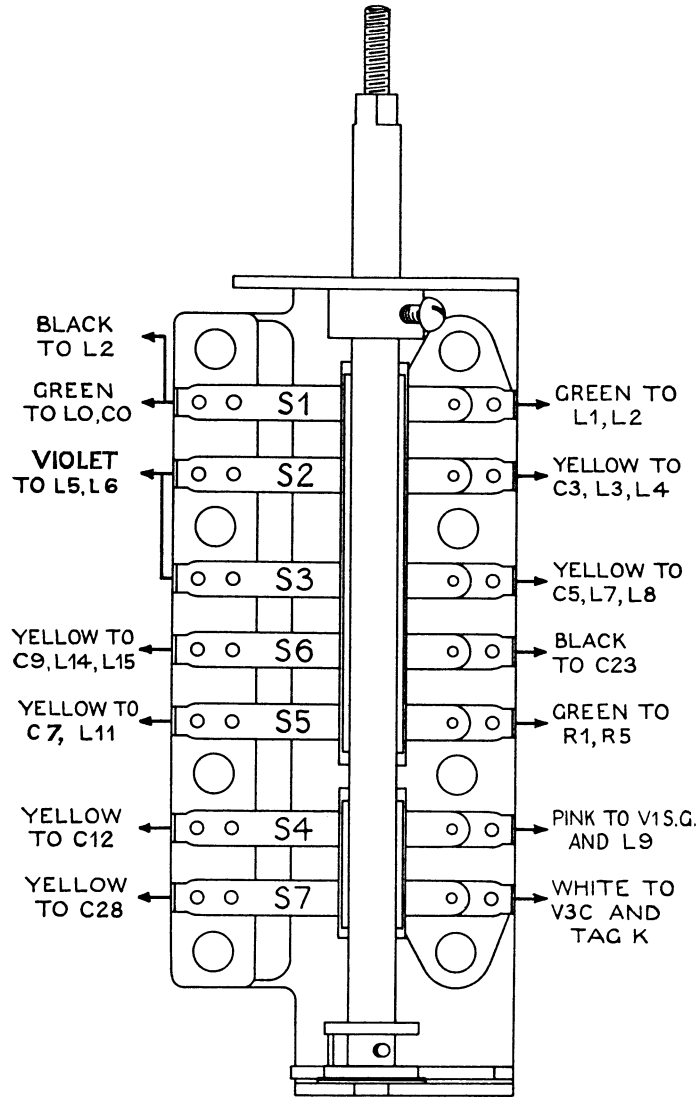
W2500 BANK A28RG & D28RG

FIG. 30



W/C SWITCH CONTACTS

FIG. 31



SCREENS 1 and 2

(View shows screens opened out)

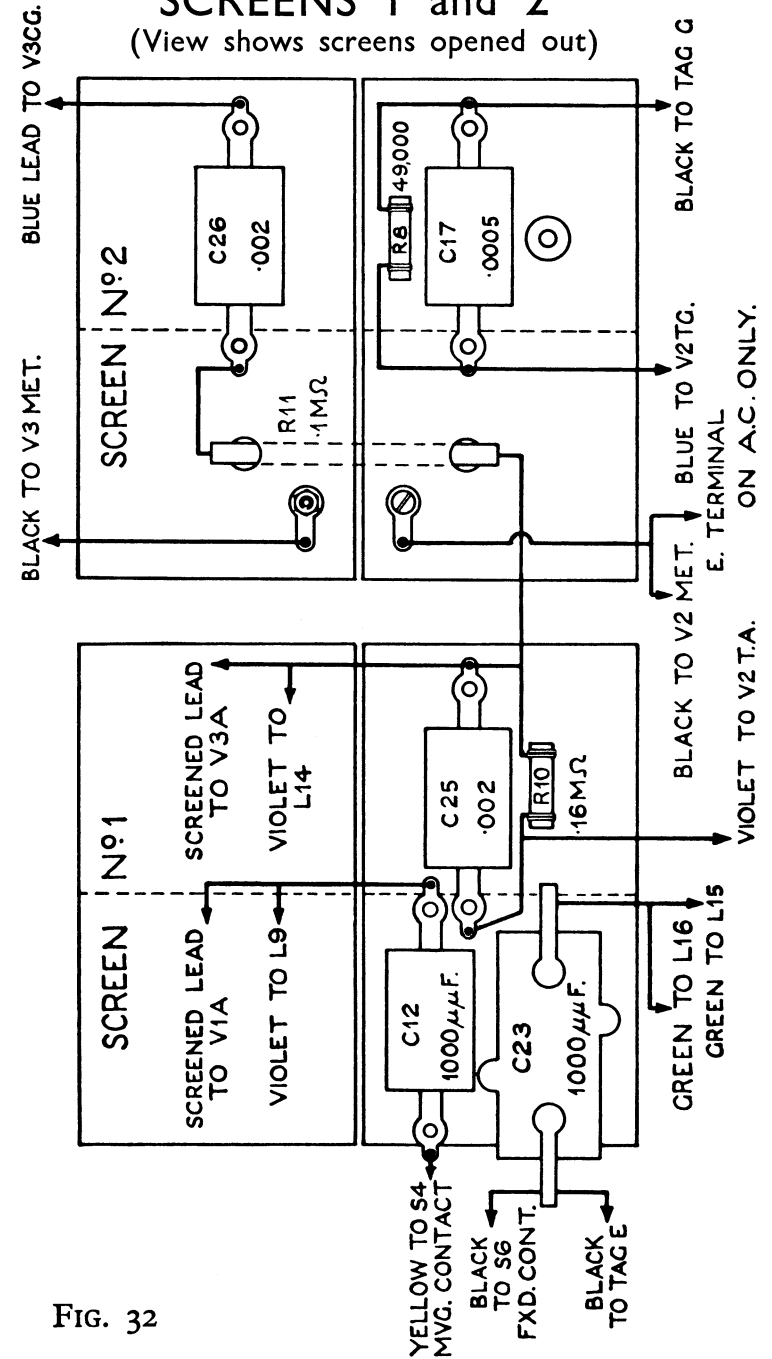
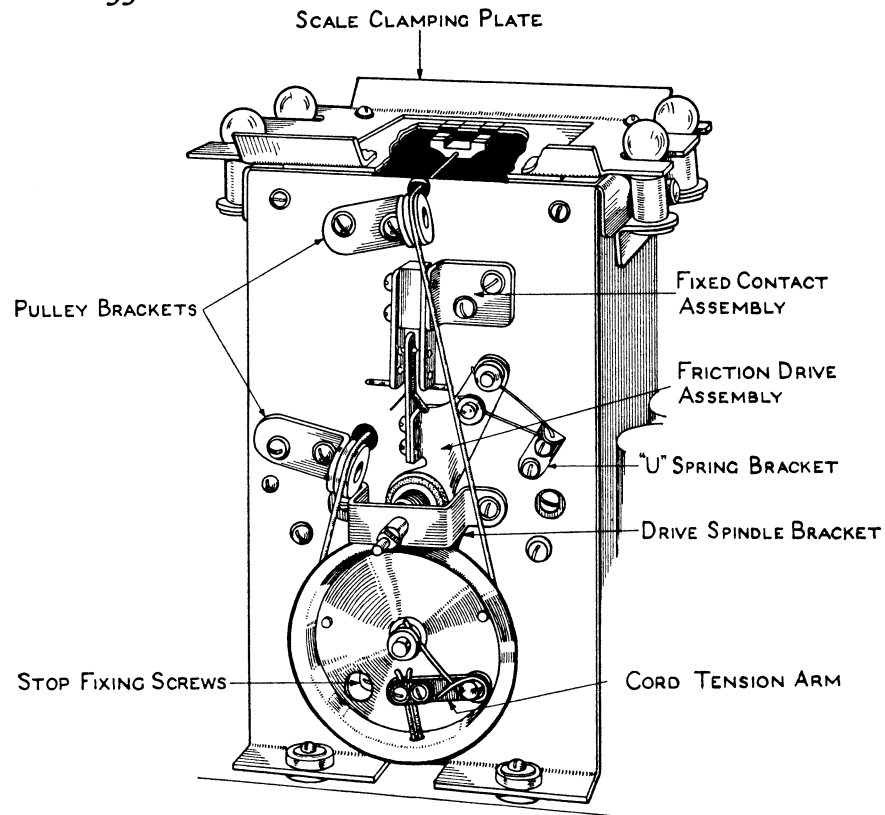


FIG. 32

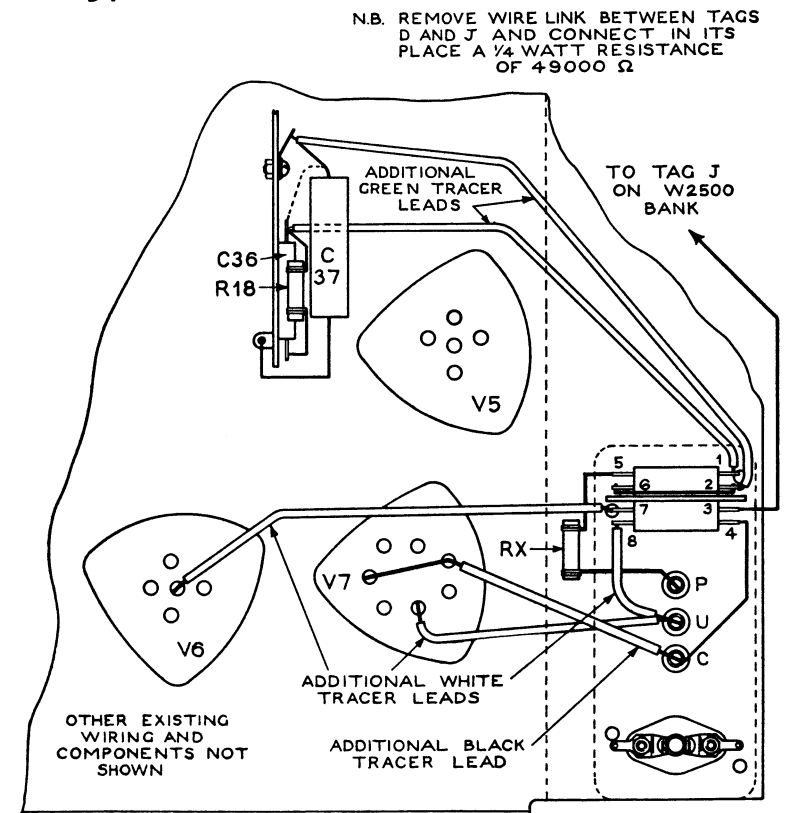
CONDENSER DRIVE

FIG. 33



A28C PICK-UP CONNECTIONS

FIG. 34



MAINS TRANSFORMER

FIG. 35

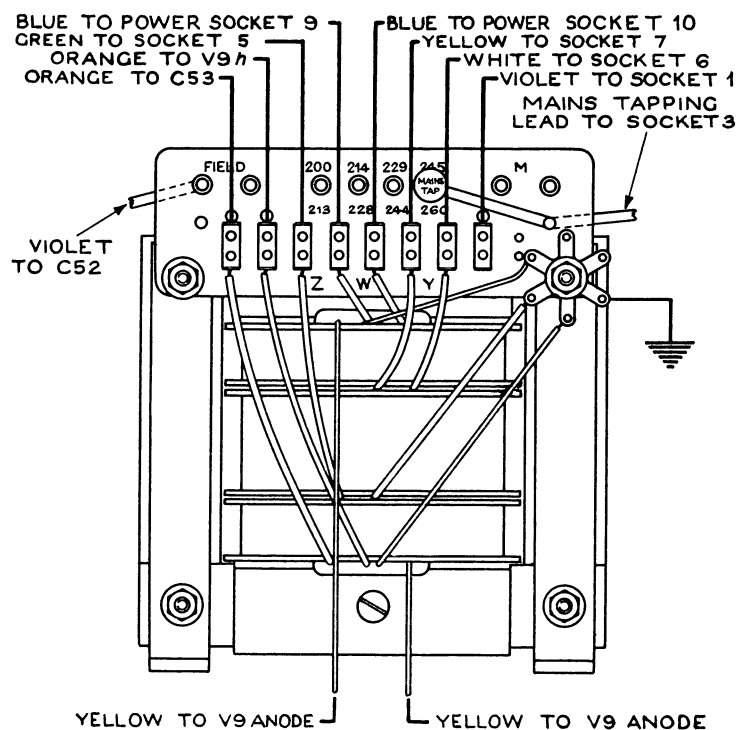


FIG. 36 A28 POWER SOCKET

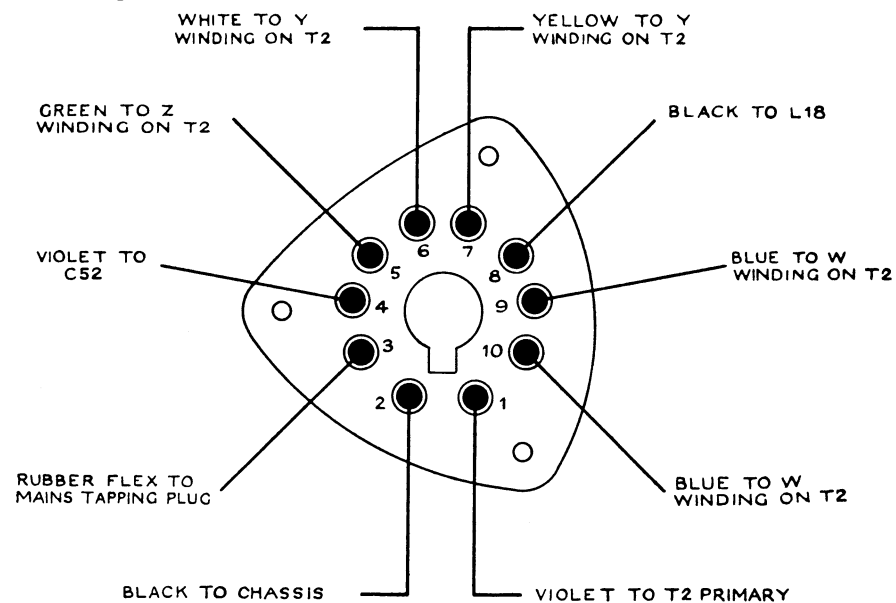


FIG. 37

A28 POWER PLUG

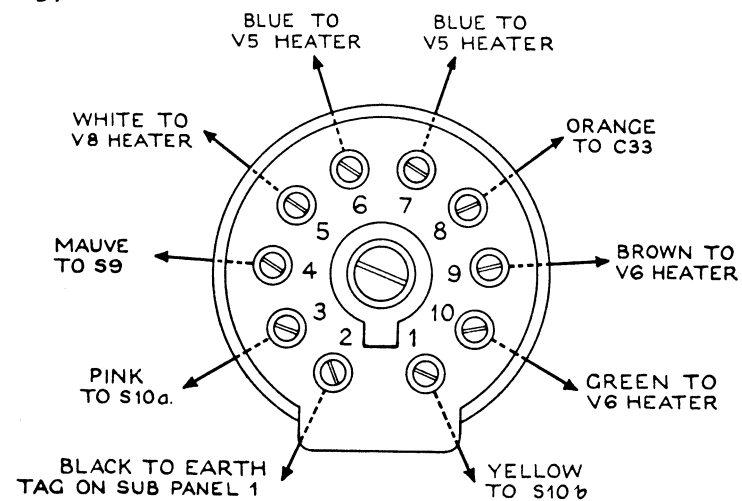
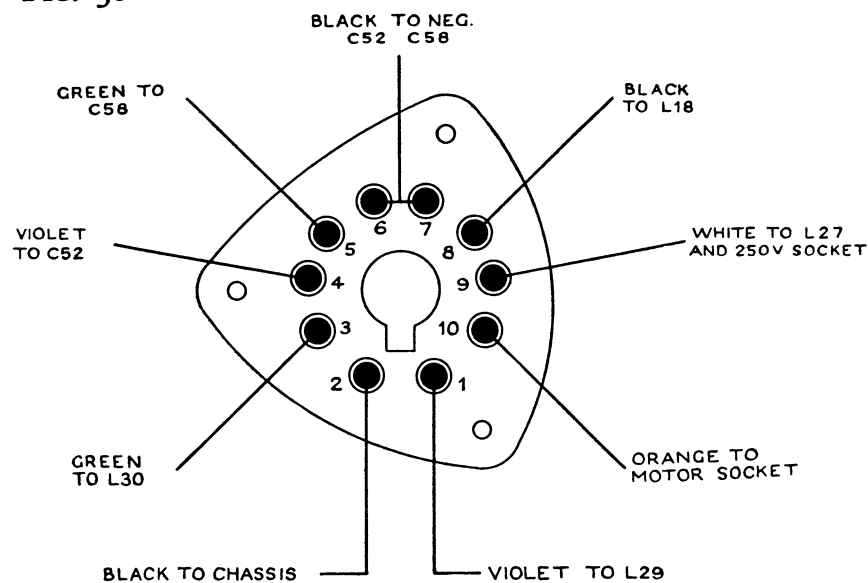


FIG. 38 D28 POWER SOCKET



D28 MAINS-TAP PANEL

FIG. 40

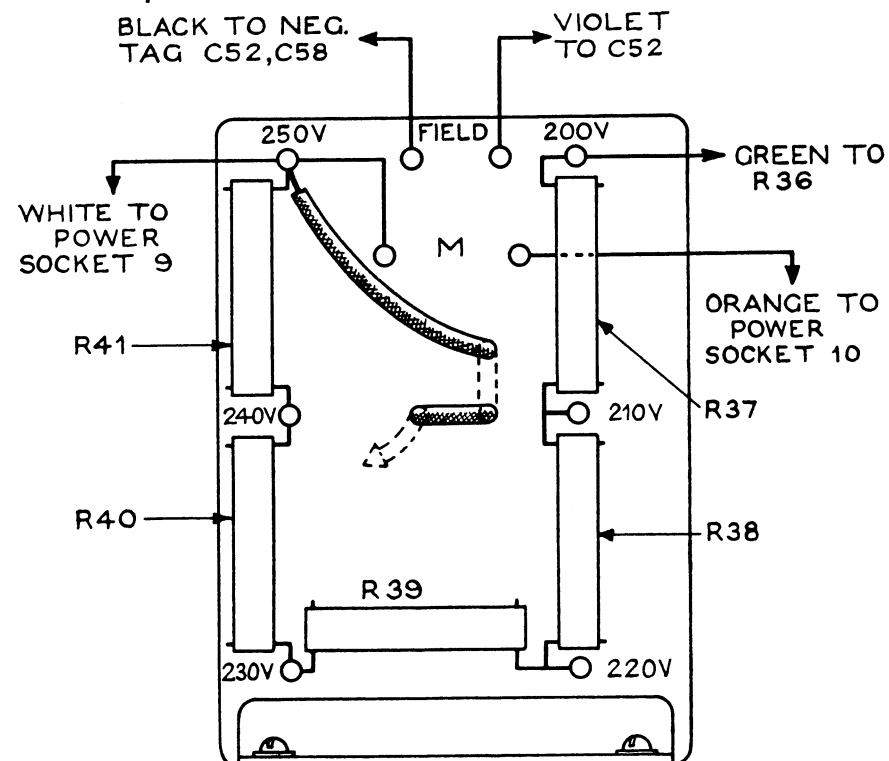
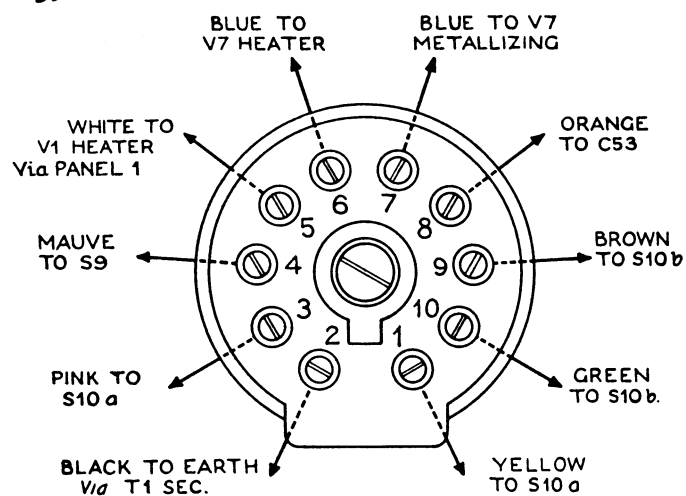
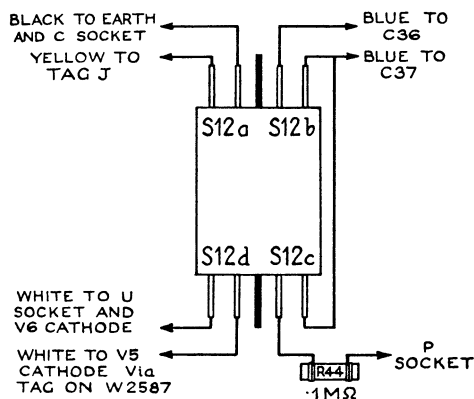


FIG. 39 D28 POWER PLUG



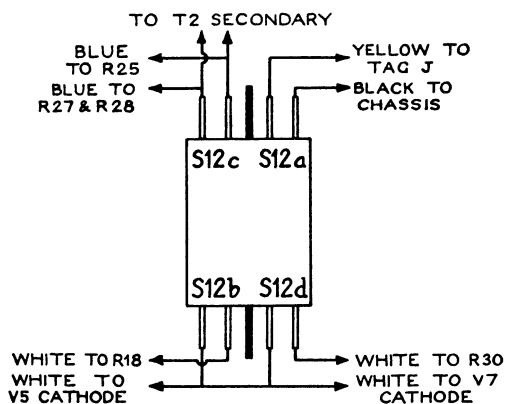
A28RG GRAM SWITCH

FIG. 41



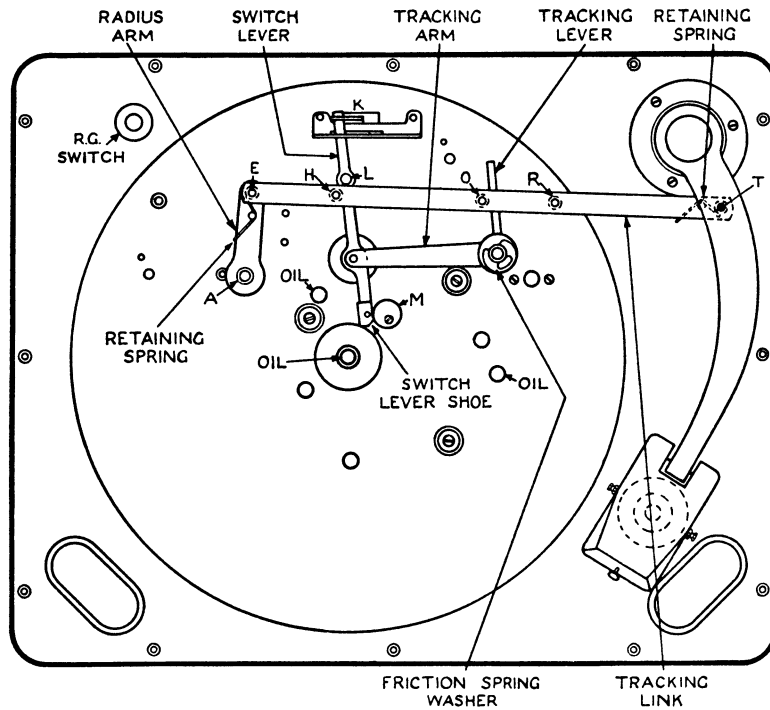
D28RG GRAM SWITCH

FIG. 42



A28RG MOTOR BOARD

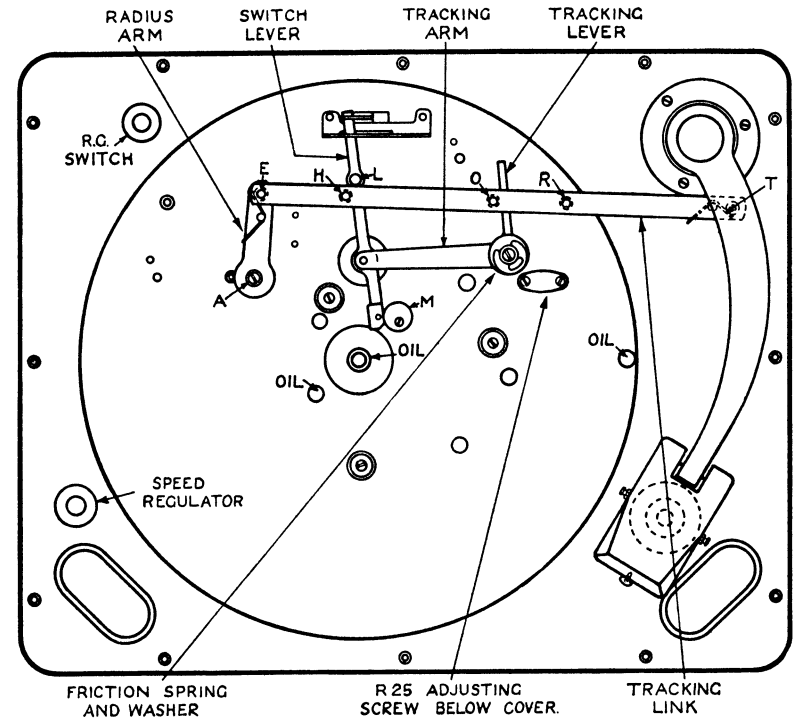
FIG. 43



BLOCK LETTERS REFER TO KEY POSITIONS MENTIONED IN THE TEXT

D28RG MOTOR BOARD

FIG. 44



BLOCK LETTERS REFER TO KEY POSITIONS MENTIONED IN THE TEXT