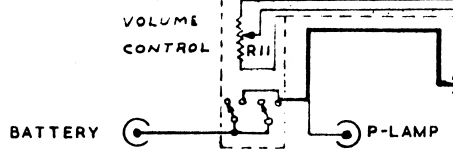
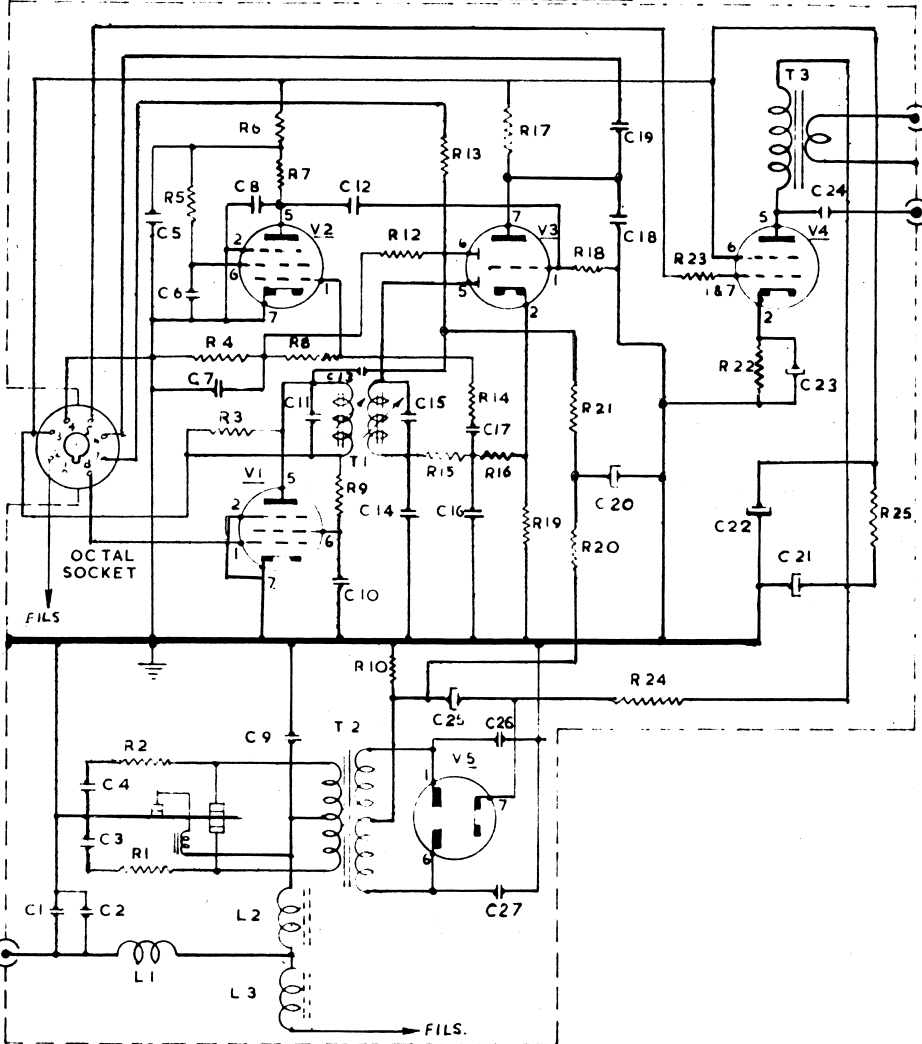
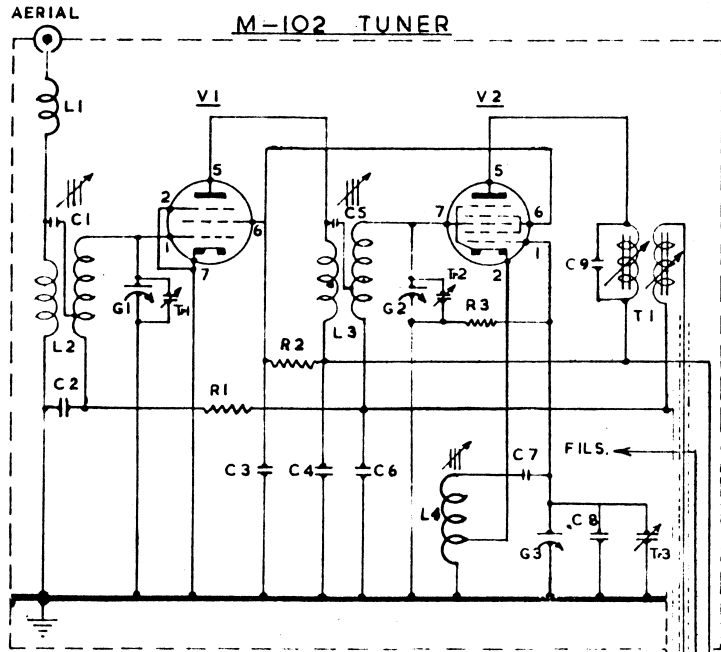


M-102-105 IF POWER UNIT



BATTERY

FERRIS MODEL 105 TUNER

F8

COMPONENTS PARTS LIST.CAPACITORS.

C1 Simplex trimmer CT 3.55
 C2 120 pf 5% mica
 C3 470 pf ceramic
 C4 470 pf ceramic
 C5 .047 uf 400v paper
 C6 .047 uf 200v paper
 C7 180 pf 10% mica
 C8 22 pf ceramic
 C9 Simplex trimmer CT 3.55
 C10 56 pf ceramic
 C11 100 pf mica nominal value
 C12 100 pf 10% mica
 C13 .047 uf 400v paper
 C14 Air trimmer 3.30 pf

TRANSFORMERS.

T1 I.F. 455 KC No.R654

DIAL LAMP.

6v cr 12v M.E.S.

REMOVAL OF LIDS FOR SERVICE.

It will be noted that M105 tuner with its associate M102/105 power unit are so designed as to keep the use of self-tapping screws to a minimum. Instead, contact lugs are used to give the required earthing of the lids and at the same time making them a firm press fit. Special square holes are provided in the sides of each unit into which the tip of a screw driver can be inserted to assist in the removal of the lids. See sketch.

Care in removing the lids squarely, is most important if distortion of the contact lugs is to be avoided. Distortion will result in poor shielding and noise interference troubles. N.B. If lugs are accidentally displaced they must be pressed in to make firm contact with the lids.

RESISTORS.

R1 1 meg $\frac{1}{2}$ W 20% carbon
 R2 470 K $\frac{1}{2}$ W 20% carbon
 R3 33 K 1W 20% carbon
 R4 22 K $\frac{1}{2}$ W 20% carbon
 R5 33 K 1W 20% carbon
 R6 100 K carbon pot.
 (concentric control)
 R7 27 K $\frac{1}{2}$ 20% carbon
 R8 500 K carbon pot.
 (concentric control)

INDUCTORS.

L1 Aerial choke L210
 L2 Aerial coil) Press
 L3 R.F. coil) Button
 L4 Osc. coil) Assembly
 L5 Padder coil

VALVES.

V1 6BA6 or 12BA6
 V2 6BE6 or 12BE6

CAPACITORS.

C1	.001 uf 20% mica
C2	.47 uf 100v paper
C3	.1 uf 200v paper
C4	.1 uf 200v paper
C5	.25 uf 400v paper
C6	.047 uf 200v paper
C7	.033 uf 200v paper
C8	100 pf 20% mica
C9	.47 uf 100v paper
C10	.047 uf 400v paper
C11	100 pf mica nominal value
C12	.61 uf 600v paper
C13	50 pf 20% mica
C14	100 pf 20% mica
C15	100 pf mica nominal value
C16	100 pf 20% mica
C17	.0047 uf 600v paper
C18	250 pf 20% mica
C19	.033 uf 400v paper
C20	5 uf 40v electrolytic
C21	16 uf 350v electrolytic
C22	16 uf 350v electrolytic
C23	25 uf 40v electrolytic
C24	.1 uf 400v paper
C25	16 uf 350v electrolytic
C26	.022 uf 1000v paper
C27	.022 uf 1000v paper

RESISTORS.

R1	22 ohm	$\frac{1}{2}$ W	10%	carbon
R2	22 ohm	$\frac{1}{2}$ W	10%	carbon
R3	220 K	$\frac{1}{2}$ W	20%	carbon
R4	1 meg	$\frac{1}{2}$ W	20%	carbon
R5	1 meg	$\frac{1}{2}$ W	20%	carbon
R6	100 K	$\frac{1}{2}$ W	20%	carbon
R7	100 K	$\frac{1}{2}$ W	20%	carbon
R8	47 K	$\frac{1}{2}$ W	20%	carbon
R9	100 K	$\frac{1}{2}$ W	20%	carbon
R10	47 ohm	$\frac{1}{2}$ W	10%	carbon
R11	1.5 K	$\frac{1}{2}$ W	10%	carbon
R12	1 meg	$\frac{1}{2}$ W	20%	carbon
R13	1 meg	$\frac{1}{2}$ W	20%	carbon
R14	470 K	$\frac{1}{2}$ W	20%	carbon
R15	47 K	$\frac{1}{2}$ W	20%	carbon
R16	220 K	$\frac{1}{2}$ W	20%	carbon
R17	100 K	$\frac{1}{2}$ W	20%	carbon
R18	220 K	$\frac{1}{2}$ W	20%	carbon
R19	1 meg	$\frac{1}{2}$ W	20%	carbon
R20	10 K	$\frac{1}{2}$ W	20%	carbon
R21	47 K	$\frac{1}{2}$ W	20%	carbon
R22	330 ohm	$\frac{1}{2}$ W	20%	carbon
R23	1 K	1W	20%	carbon
R24	330 ohm	1W	20%	carbon

TRANSFORMERS.

T1	I.F. 455 KC
T2	Power trans. No.103 (6v) or No.104 (12v)
T3	Speaker trans. No.65 7000 ohm primary.

VALVES.

V1	6BA6 or 12BA6
V2	6BA6 or 12BA6
V3	6AV6 or 12AV6
V4	6AQ5 or 12AQ5
V5	6 x 4 or 12 x 4

INDUCTORS.

L1	H.A. choke air cored
L2	Iron dust L.T. choke
L3	Iron dust L.T. choke

VIBRATOR.

Oak 4006	- 6v Models
Oak 4012	- 12v Models

FUSE RATING.

6v Models - 15 amp.
12v Models - 10 amp.