Oper.

No.

Generator Connection

ALIGNMENT PROCEDURE

EQUIPMENT

Generator

Frequency

ALIGNMENT CONDITIONS

Instructions

Load impedance : 5,500 ohms Signal Generator: :50 Milliwatts Output level Output meter : Max. vol. fully : 0.01MF (for I.F. trans. Vol. control Mica capacitor clockwise alignment) : 200 MMF Mica Capacitor Intermed. Freg. : 455 Kc/s. Dummy antenna Input voltage : 230 volts 50 cycle : Type M195 Alignment tool AC. input to trans.

221-250 volt pri.

DUMMY ANTENNA: The 200 MMF Dummy antenna must not be connected to the free end of the 25 ft. antenna during alignment, but must be connected to the antenna junction lug on the chassis. It is not necessary to have the 25 ft. antenna connected to the receiver during alignment if it is connected it should be rolled up into a small hank.

ALIGNMENT: The I.F. transformer variable iron cores and the trimmer condensers on the perm. tuner are accessible when the rear section of the cabinet is removed from the front section.

Dummy

Antenna

1.			tion of cabinet remove the screw and
	washer then prise rear sec	tion of cabinet	off the front section.
2.	To signal grid 455 Kc/s.		Leave grid wire attached to valve
	of 6AD8 valve	capacitor in	socket. Peak 2nd I.F. trans. pri.
		series with	and sec. for max. output.
		generator	
3.	To signal grid 455 Kc/s. of 6AN7 valve		Leave grid wire attached to valve socket. Turn perm tuner so that

3. To signal grid of 6AN7 valve (pin No. 2)

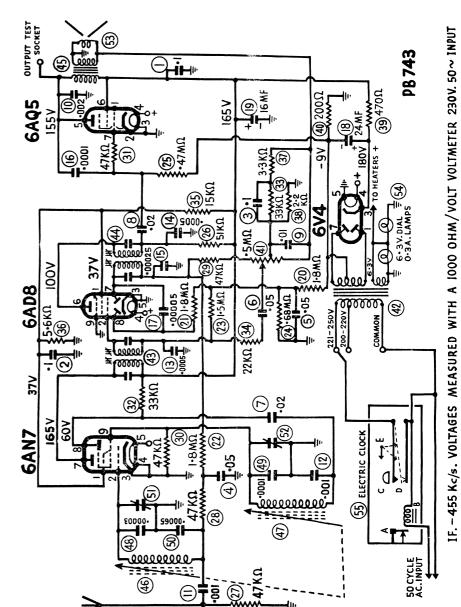
DIAL POINTER: Turn perm. tuner so that iron cores are fully out of windings on the coil formers and hard against the stop. Set the centre of the dial pointer on the end of travel spot on the dial reading near 1700 Kc/s. From the front of the cabinet the dial pointer may be moved by prising out the spring clip at each end of the dial. Hold the tuning knob with one hand and with a pair of long nose pliers move the top of the dial pointer so that it slides on the dial cord.

To antenna 1000 Kc/s. 200 MMF mica junction lug capacitor in on chassis series with generator 1000 Kc/s. Peak oscl. coil trimmer condenser then peak antenna trans. trim. cond. for max. output. Repeak oscl. coil trim. cond.

- 7. Tuning range after alignment 535 1640 Kc/s.
- 8. Check logging at each end of the dial; then refit rear section of the cabinet.

NOTE: Both iron cores are pre-set at the factory to an exact dimension of 2.275" between the extreme end of the former protruding through the rubber grommet, and the end of the iron cores in the former, when the unit is turned fully clockwise and is hard against the stop.

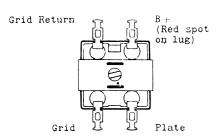
If incorrect logging and mis-alignment are to be avoided, no adjustment of the iron cores must be made to vary this dimension. Both iron cores must have the gare colour identification spot on the screw end of the iron core.

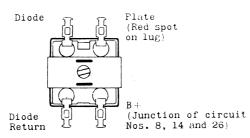


A. ALARM REED. C. SLEEPYTIME CAM.
B. MOTOR COIL. -D. MICRO SWITCH.

No. 1 IF. TRANS.

No. 2 IF, TRANS.





ANTENNA TRANS.

Start of winding - furthest from mounting end - AVC. Finish of winding - nearest to mounting end - Signal Grid.

OSCL. COIL

Start of winding - furthest from mounting end - Junction of circuit Nos. 7 and 12. Finish of winding - nearest to mounting end - Oscl. grid.

POWER TRANSFORMER

Pri. red lead - common. Pri. green lead - 200-220V. Pri. black lead - 221-250V.

HT. Sec.

Blue lead - start. Yellow lead - centre tap. Blue lead - finish.

LT. Sec. (two windings in parallel) Start and finish in winding wire.

DIAL READING MODIFICATION

The dial reading consisted of a printed strip and in front of which was a transparent bar which is held in position in the cabinet by a spring clip at each end of the transparent bar.

The above has been changed so that the dial reading is printed on the rear side of the transparent bar and which is held to the cabinet by the same type spring clip.

Printed dial bar: Vic .- Tas. 25/785-1 Printed dial reading ., S.A.-W.A. 25/785-2 A115/785 (four printed dial readings) 25/785-3 25/785 Q'ld. Transparent dial bar 25/785-4 N.S.W.



ECLIPSE RADIO PTY, LTD.

11-21 STURT STREET, SOUTH MELBOURNE TECHNICAL BULLETIN

BULLETIN FOM-1

File: RECEIVERS AC.

Date: 1 10 54

MODEL "FOM" CLOCK RADIO

4 Valve Superheterodyne Broadcast Receiver.

For Operation From:

200-250 Volt 50 Cycle AC. Supply Mains.

Power trans. primary mains taps: 200-220 volts and

221-250 volts.

Power Consumption 33.5 Watts Radio and Clock.

4.5 Watts Clock only.

Tuning Range:

535-1640 Kc/s. : 560,7-182.9 Metres

This Bulletin Contains:

Alignment Instructions.

Circuit Diagram.

Component

Connections for Transformers.

Valve Placement Diagram.

