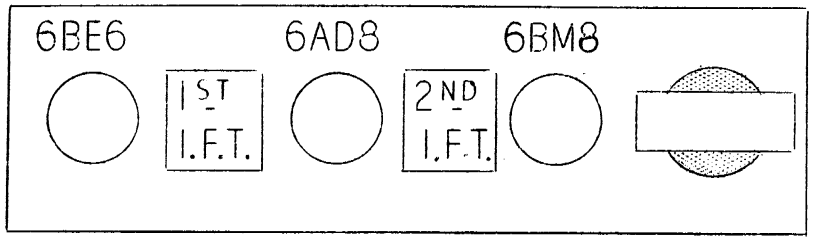
A1.



OSCILLATOR TRIMMER CONDENSER

To improve the peaking position of the trimmer condenser circuit No. 8, an 82 MMF ± 5% 500V DCW. silvered mica condenser part No. C268 is being used in place of the 90 MMF condenser circuit No. 7.

TRANSFORMER CONNECTIONS

ANTENNA COIL:

Start of winding --- furthest from mounting end --- Antenna
Finish of winding--- nearest to mounting end --- Junction of circuit Nos. 4 & 2 & 3

OSCL. COIL:

Start of winding --- furthest from mounting end --- Junction of circuit Nos. 5 & 6.
Finish of winding--- nearest to mounting end --- Junction of circuit Nos. 22 & 23.

POWER TRANS. (T148) 200-240 Volt input	POWER TRANS. (T149) 230-250 Volt input
PRI. Red lead, - common Green lead- 200V mains tap Black lead- 230 & 240V mains tap.	PRI. Red lead - common Green lead- 230V mains tap. Black lead- 250V mains tap.
HT. SEC. Blue lead - start Brown lead- finish	HT. SEC. Blue lead - start Orange lead - finish
LT. SEC. Start and finish in winding wire.	LT. SEC. Start and finish in winding wire.

MODEL—AMR
PLAY - GRAM

FOR OPERATION FROM:

200-240 Volt 40 or 50 Cycle Supply Mains (Power Transformer T148)
Power Trans. Primary Mains Tap-red-common
" " " " " -green 200V. mains
" " " " " -black 230 & 240V. mains.
230-250 Volt 40 or 50 Cycle Supply Mains (Power Transformer T149)
Power Trans. Primary Mains Tap-red-common.
" " " " " -green 230V. mains.
" " " " " -black 250V. mains.

POWER CONSUMPTION:

Radio Operation: 20 Watts - approx.
Gramo Operation: 40 Watts - approx.

TUNING RANGE:

535 - 1640 Kc/s. : 560.7 - 182.9 Metres.

ALIGNMENT PROCEDURE.

EQUIPMENT:		ALIGNMENT CONDITIONS	
Signal Generator:	modulated 400 C.P.S.	Load Impedance:	7000 ohms
Output Meter :		Output Level :	50 Milliwatts
Mica Capacitor :	0.01 MF (for IF. trans. alignment)	Vol. Control :	Max. Vol. fully clockwise
Dummy Antenna :	200MMF Mica capacitor	Intermed. Freq:	455 Kc/s.
		Input Voltage:	230 Volts. 50 Cycle AC. input to trans. 230-240 volt. pri. tap.
Straight Alignment Tool:	Type PM581		
Flexible Alignment Tool:	Type 46/712		
		Gramo/Radio Switch:	Radio position (clockwise)

IF. TRANSFORMER ALIGNMENT

NOTE: Remove the record player turntable from its spindle.

Removal instructions are detailed on the later pages of this bulletin.

The receiver chassis does not have to be removed from the cabinet for alignment purposes.

Operation No.	Generator Connection	Generator Frequency	Dummy Antenna	Instructions.
1.	To control grid of 6AD8 valve (pin No. 2)	455 Kc/s.	0.01MF Mica capacitor in series with generator	Leave grid wire attached to valve socket. Peak 2nd IF. trans. pri. and sec. for max. output.
2.	To control grid of 6BE6 valve (pin No. 7.)	455 Kc/s.	0.01MF Mica capacitor in series with generator	Turn tuning drum until perm.tuner iron cores are out of the windings on coil formers and the unit is hard against the stop. Leave the grid wire attached to valve socket. Peak 1st IF. trans. pri. and sec. for max. output
3.				Repeat operations 1 and 2

DIAL DRUM SETTING

Turn dial drum toward the rear of plastic mount plate until the perm. tuner iron cores are out of the windings on the coil formers and the unit is hard against the stop. The end of travel spot on dial reading near 1700 Kc/s. is to align with the indicator lines moulded on the top of the plastic mount plate. The dial drum is adjusted by loosening off the screw through the slot in the drum.

BROADCAST ALIGNMENT

NOTE: 1. Dummy Antenna: The 200MMF dummy antenna must not be connected to the free end of the 25 ft. antenna during alignment, The dummy antenna 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 the 25 ft. antenna is connected it must be rolled into a small hank.

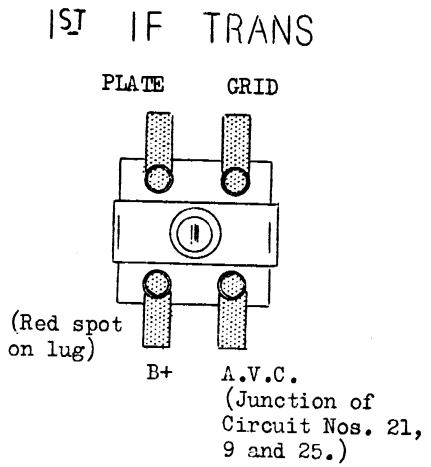
NOTE 2. The antenna and oscillator trimmer condensers are accessible through the two holes in the plastic mount plate on the right hand side of the control knobs. The oscillator trimmer being nearest to the front edge of the mount plate.

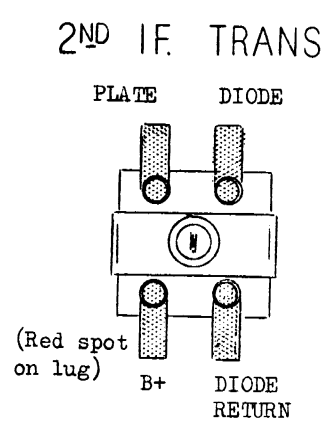
NOTE: 3. Both iron cores are pre-set at the factory to an exact dimension of 2.275" between the extreme end of the former protruding through the rubber grommet, and the end of the iron core in the former, when the unit is turned hard against the stop. If incorrect logging and misalignment are to be avoided no adjustment of the iron cores must be made to vary this dimension. Both iron cores must have the same colour identification spot on the end of the iron core.

Operation No.	Generator Connection	Generator Frequency	Dummy Antenna	Instructions
1.	To antenna junction lug on chassis	1000 Kc/s.	200MMF Mica capacitor in series with generator	Turn tuning drum until alignment spot at 1000 Kc/s. aligns with moulded indicator lines on top of plastic mt. plate. Peak oscl. trim. cond. then peak antenna coil trimmer cond. for max. output. Repeak oscl. coil trim cond.

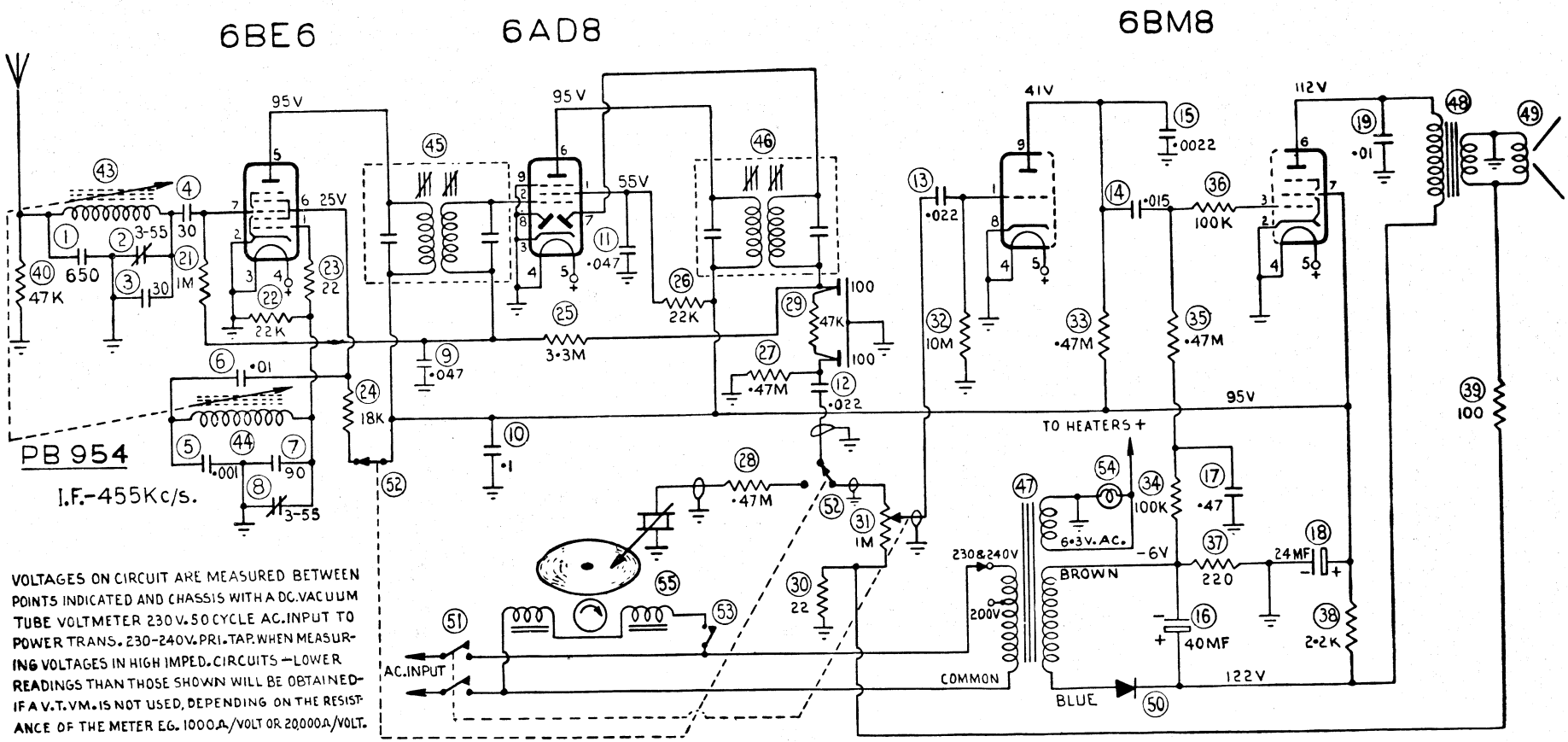
2. Tuning range after alignment 535 - 1640 Kc/s.

3. Refit plastic mount plate with receiver attached to the cabinet.





ASTOR MODEL AMR.



VOLTAGES ON CIRCUIT ARE MEASURED BETWEEN POINTS INDICATED AND CHASSIS WITH A D.C. VACUUM TUBE VOLTMETER 230 V. 50 CYCLE A.C. INPUT TO POWER TRANS. 230-240V. PRI. TAP. WHEN MEASURING VOLTAGES IN HIGH IMPED. CIRCUITS — LOWER READINGS THAN THOSE SHOWN WILL BE OBTAINED IF A V.T.VM. IS NOT USED, DEPENDING ON THE RESISTANCE OF THE METER E.G. 1000Ω/VOLT OR 20,000Ω/VOLT.