FOR OPERATION FROM

200-240 Volt 40 or 50 Cycle AC. Mains (Power Transformer T202)
Power trans, Primary Tap-red-common "_egreen=200 Volt mains." -black=230 & 240 Volt mains

200-250 Volt 40 or 50 Cycle AC. Mains (Power transformer T203) Power trans, Primary Tap-red-common

"-green-200 Volt mains.
"-black-230-240 Volt mains

-white-250 Volt mains

Record changer drive pulley for 40 cycle mains operation is Part No: 346/524

HOTE

POWER CONSUMPTION:

Radio Operation - 50 Watts-approx. Gramo Operation - 75 Watts-approx.

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

TUNING RANGE

ALIGNMENT PROCEDURE.

EQUIPMENT ALIGNMENT CONDITIONS

Output Meter Signal Generator: Dummy antenna Mica Capacitor Modulated 400 CPS. Capaci tor O.OLMF. (for IF. brans. alignment)
2001MF Mica Output Meter: Connect output of one output secondary winding meter across transformer

Alignment Tools ; (a) type M195 for

Output Level:

speaker voice coil 50 milliwatts

disconnected

speaker voice coil 20 milliwatts

connected

alignment. IF. transformer

(b) type PM581 for trimmer broadcast

alignment

Impedance:

4 Ohms.

Max. Vol. Fully

clockwise

455 Kc/s.

Vol. Control: Output Meter

Input Voltage: Intermed. Freq

> AC. input to trans. 230 Volts 50 Cycle

230-240 volt pri.

Tone control : Treble position. Fully clockwise.

TRANSFORMER CONNECTIONS.

POWER TRANSFORMER.

PART NO. T202 40 & 50 cycle mains PART NO. T203 40 & 50 cycle mains

PRI. Green lead - 200V mains Black lead - 230 & 240V mains Red lead - Common

White lead - 250 & 240V White lead - 250V mains Green lead - 200V mains Red lead - Common

entan

Electro-static shield joined internally to centre tap of HT. secondary.

HT. Secondary

HT. Secondary

Start - Blue lead

Finish - Blue lead Centre tap - yellow lead

Centre tap - yellow Start - Blue lead Finish - Blue lead lead

If. Secondary

LT. Secondary

Start and finish in winding wire

Start and finish in winding wire

ANTENNA COIL

Start of winding - furthest from mounting end - Junction of Circuit No. 2, - Junction of Circuit No. 1, 41 and antenna.

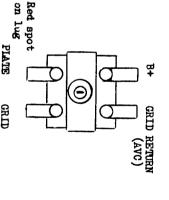
Finish of winding - nearest to mounting end

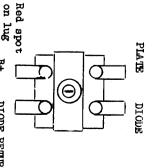
OSCILLATOR COIL

Finish of winding - nearest to mounting end Start of winding - furthest from mounting end - Junction of Circuit No. 6 - Junction of Circuit No. 5 7, 43, and 44. and 8

IST I.F. TRANS

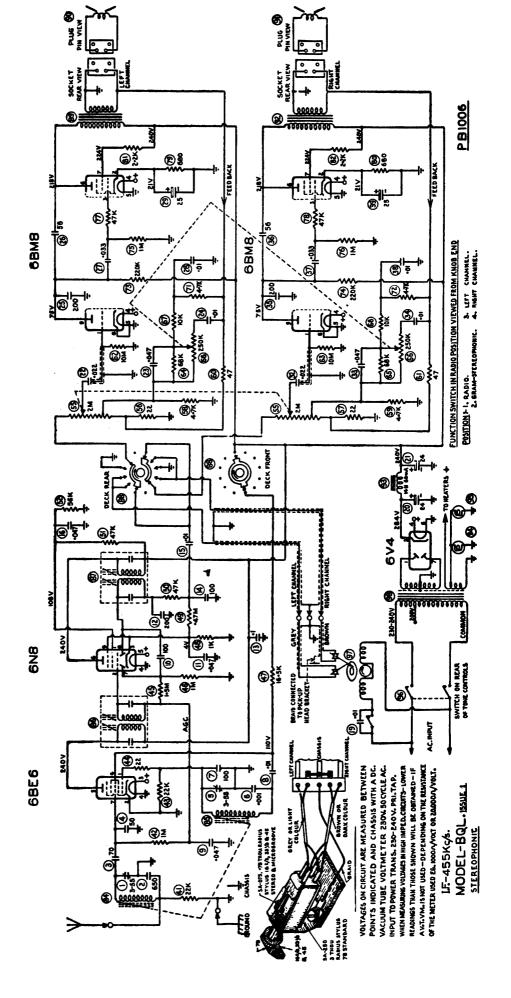
2ND I.F TRANS





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DIODE RETURN



A21b.

Open lid of cabinet and secure pick-up arm under rest pillar clip.

Remove the screws fastening the rear panel then remove panel from cabinet.

With the rear of the cabinet toward operator place the cabinet on to a tab

With the rear of the cabinet toward operator place the cabinet on to a table so that end of the cabinet adjacent to the record changer is against the flat surface of the table.

IF. TRANSFORMER ALIGNMENT.

No.

Connection

Frequency

Generator

Dunnny Antenna

Instructions

Oper.

Generator

3	•) <u> </u>	Oper No.
	pin No. 7.	To signal grid of 6N8 IF. valve pin No. 2	Generator Generator Connection Frequency
	400 ng/s.	455 Kc/s.	Generator Frequency
	capacitor in series with gen- erator.	O.OlMF Mica capacitor in series with gen- erator.	Durzy Antenna
Repeat operations 1 and 2_{ullet}	cores are fully out of winding and the unit is hard against the stop. Leave grid wire attached to valve socket. Peak lst. IF. trans. pri. and sec. for max. output.	Turn gramo-radio switch to radio position. Leave grid wire attached to valve socket. Peak 2nd IF. trans. pri. and sec. for max. output.	Instructions

TUNING DISC SETTING.

Insert a sharp pointed thin spike in hole in gold coloured metal cover in centre of moulded tuning disc, then lever cover out of the disc.

Loosen the three $\frac{1}{4}$ 'x 3/32" Whit, csk. hd. screws fastening the washer in centre of tuning disc.

Turn the tuning spindle anti-clockwise until perm tuner unit iron cores are out of windings on coil formers and unit is hard against stop.

Set the centre of the indicator line on the tuning disc to align with the centre of the end of travel spot near 1700 Kc/s, on the dial reading.

Securely tighten the three 3/32" screws in centre washer then refit cover to the centre of tuning disc.

BROADCAST ALIGNMENT

NOTE: 1

Both iron cores in the perm. tuner unit are pre-set at the factory to an exact dimension of 2.275" between the extreme end of the former protruding through the rubber grownet and the end of the iron core in the former, when the unit spindle is turned fully anti-clockwise and is 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.

ASTOR MODEL BQL.

NOTE: 2.

The 200 MMF Dummy antenna must be connected to the antenna junction lug on the chassis. Should an antenna be connected to the short antenna lead from the receiver it is to be disconnected or rolled into a small hank.

Check logging at each end of tuning

dial.

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Tuning range after alignment 535 to 1640 Kc/s.

AUDIO AMPLIFIER GAIN TEST

Oper.

Generator

Generator

Frequency

Instructions

Connection

				•
			junction lug	To antenna
				1000 Kc/s.
	(c)	(B)		(A)
output meter reads 20 milliwatts (volume control turned maximum clockwise, speaker voice coil connected).	Adjust signal input until	Tune receiver to generator 1000 Kc/s signal.	secondary winding of one channel output transformer.	(A) Connect output meter across

- (D) Leave input signal set at this level. Disconnect output meter and then connect output meter across the secondary winding of the other channel output transformer and note the output meter reading. (volume control turned maximum clockwise, speaker voice coil connected.)
- (B) The difference in output between the amplifier charmels must not exceed 7 milliwatts.