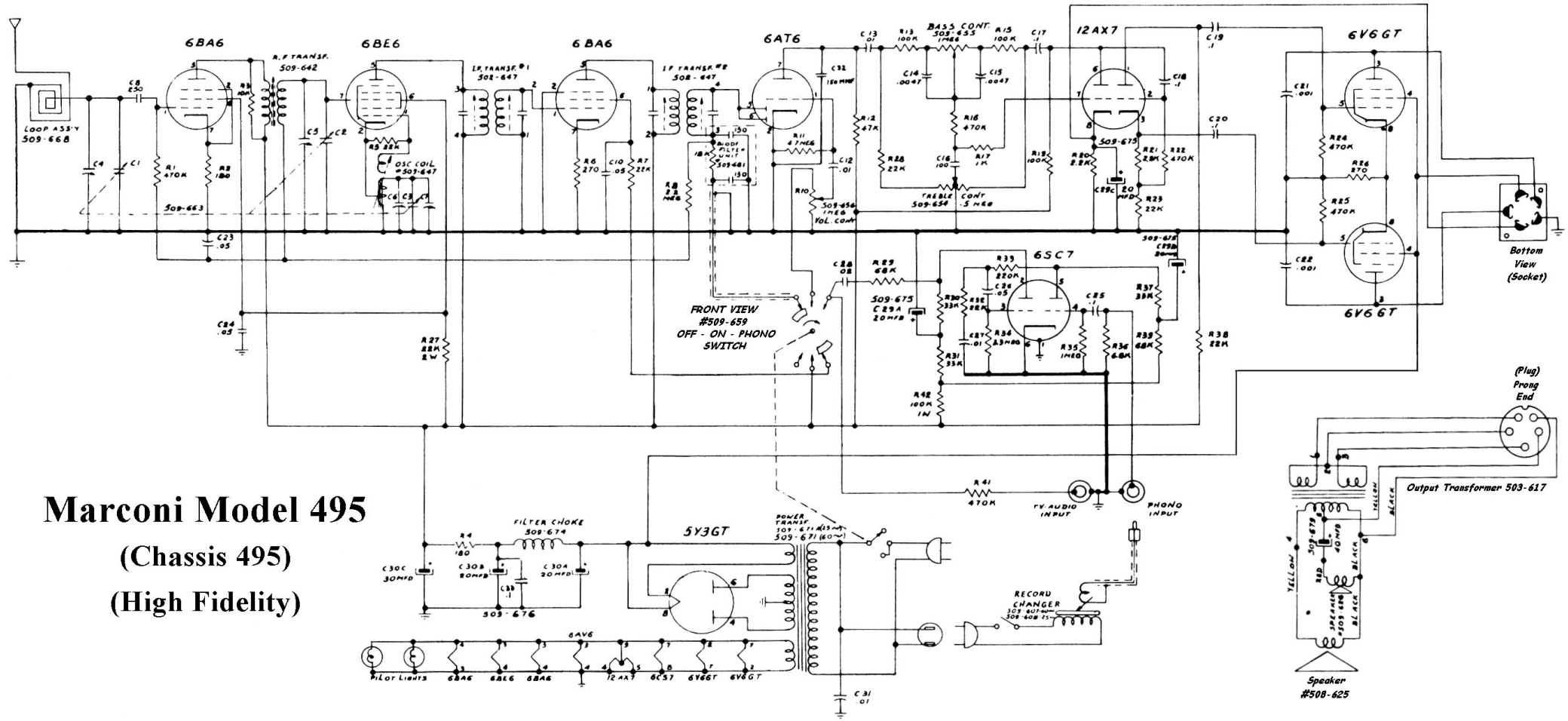
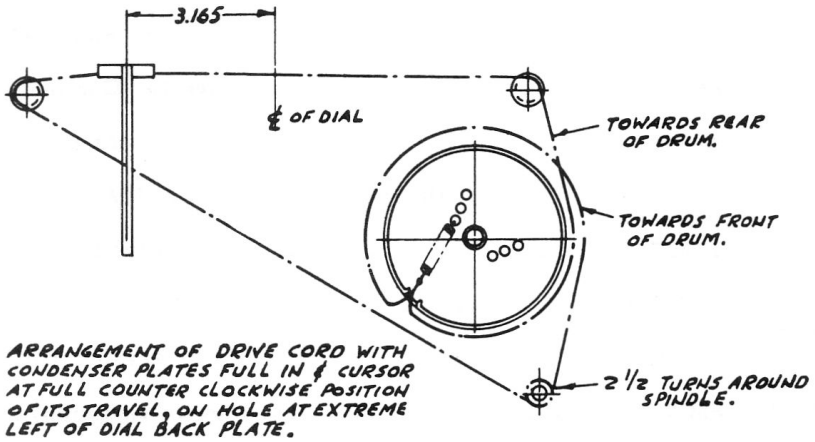


Marconi Model 495

(Chassis 495)

(High Fidelity)

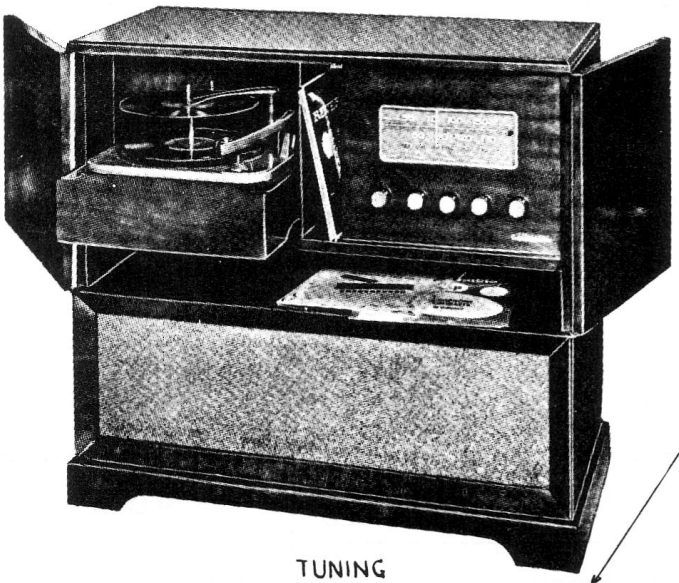
DRIVE CORD ARRANGEMENT



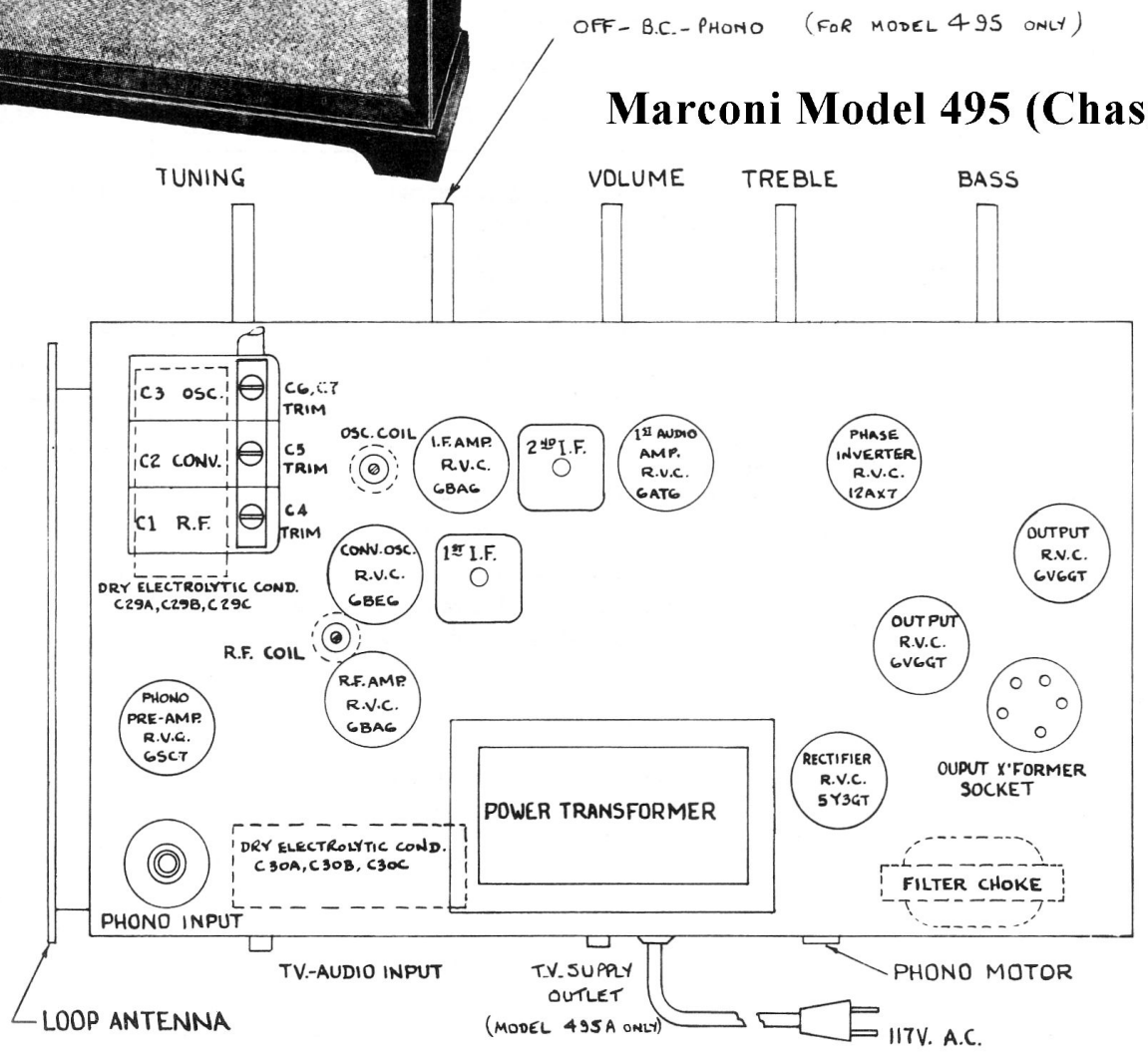
ARRANGEMENT OF DRIVE CORD WITH CONDENSER PLATES FULL IN ℄ CURSOR AT FULL COUNTER CLOCKWISE POSITION OF ITS TRAVEL, ON HOLE AT EXTREME LEFT OF DIAL BACK PLATE.

VOLTAGE AND CURRENT DATA – RADIO OPERATION

A.C. LINE	117 Volts A.C.
RECTIFIER CATHODE - 5Y3GT Pin #8	252 Volts D.C.
RECTIFIED B^+ at C30C	238 Volts D.C.
OSCILLATOR SCREEN - 6BE6 Pin #6	86 Volts D.C.
6V6GT OUTPUT PLATES - Pin #3	245 Volts D.C.
6AT6 PLATE - Pin #7	118 Volts D.C.
12AX7 PLATE - Pin #6	112 Volts D.C.
12AX7 PLATE - Pin #1	223 Volts D.C.
6SC7 PLATE - Pin #2	76 Volts D.C.
6SC7 PLATE - Pin #5	68 Volts D.C.
6V6GT OUTPUT CATHODE - Pin #8	16 Volts D.C.
POWER TRANSFORMER - PLATE TO PLATE	507 Volts A.C.
FILAMENTS	6.23 Volts A.C.
B^+ OUTPUT CURRENT	94 M.A. D.C.
6V6GT OUTPUT PLATES	EA 29 M.A. D.C.



Marconi Model 495 (Chassis 495)



CIRCUIT DESCRIPTION

Nine tube AC operated, High Fidelity combination radio-phonograph, standard broadcast superheterodyne receiver consisting of an RF input circuit, converter-oscillator, one stage of intermediate frequency amplification, diode detector with AVC, one stage of audio frequency amplification, phase inverter, phono pre-amplifier, feedback tone circuit and push-pull power output with cross-over network driving two matched permanent magnet dynamic loudspeakers.

FREQUENCY COVERAGE ..... 540 - 1720 Kc.

POWER OUTPUT (U.P.O.) ..... 6 Watts

POWER RATING ..... 117 volts, 25-60 cycles,
PHONO..0.80 Amps. RADIO..0.65 Amps

TUBE COMPLEMENT

6BA6 ..... R.F. Amplifier

6BE6 ..... Converter-Oscillator

6BA6 ..... I.F. Amplifier

6AT6 ..... Diode Det., AVC, 1st A.F.Amplifier

12AX7 ..... Phase Inverter

6V6GT (2) ..... Push-Pull Output

5Y3GT ..... Full-Wave Rectifier

6SC7 ..... Phono Pre-Amplifier

ALIGNMENT PROCEDURE

Maximum performance depends on accurate alignment of the R.F. and I.F. circuits of the receiver; therefore, follow the instructions below and the method outlined in the alignment chart carefully.

A. Make all alignment adjustments to the receiver with the volume and tone control set at maximum and the tone control in the treble position.

B. Connect the output meter across the voice coil terminals.

C. Keep the output of the signal generator as low as is consistent with serviceable meter readings.

Marconi Model 495 (Chassis 495) Alignment Procedure

CONNECT S.G. OUTPUT TO	INPUT FREQUENCY	DIAL SETTING	ADJUST	CIRCUIT RESONATED	REMARKS
*CONTROL GRID 6BE6	455 Kc.	DIAL AT MINIMUM	TOP & BOTTOM ALIGNERS	2nd I.F.	MAX. OUTPUT
CONTROL GRID 6BE6	455 Kc.	DIAL AT MINIMUM	TOP & BOTTOM ALIGNERS	1st I.F.	MAX. OUTPUT
A & G	1500 Kc.	1500 Kc.	C6	Osc.	MAX. OUTPUT
A & G	1500 Kc.	1500 Kc.	C4	R.F.	MAX. OUTPUT
A & G	1500 Kc.	1500 Kc.	C5	Det.	MAX. OUTPUT
A & G	580 Kc.	580 Kc.	R.F. SLUG	Det.	MAX. OUTPUT

* Apply signal to grid of 6BE6 converter through a 0.1 Mfd. condenser. Lug on detector section of gang forms suitable point of connection.

NOTE

If the chassis is realigned in the cabinet, the above dial setting may be followed. If, however, the chassis is removed, the dial scale is left attached to the cabinet. In order to guide servicemen working under the latter circumstances, four index marks are provided on top of dial back plate to indicate respectively, starting from left end: 1st hole - Gang fully meshed; 2nd hole - 580 Kc., 3rd hole - 1000 Kc., 4th hole - 1500 Kc.