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or M-50 type cabinets. The tuner unit G980600 is designed to fit either M-30

have interchangeable cable connections. nected to G980600 tuner units. Units P6, P8 and P10 Audio and Power Units P6, P8 and P10 may be con-

P6, P8 or P10 without change. The Loudspeaker specified may be connected to units

type antenna for short-wave use. antenna for standard broadcast reception and also a loop Both model M-50 & M-30 are equipped with a built in

R.F. Alignment Frequency

Standard Broadcast 1500 kc & 600 kc Short Wave 2 15 mc *check at 11.8 mc Short Wave 1 10 mc *check at 6 mc

need end turn adjustment. *If the check frequency is off—S.W. Oscillator Coll may

THE CABLE CONNECTIONS:

These consist of the power feed (B-plus, heater and ground) the antenna connection, the phonograph input (switched by the range switch mechanism) and the connection to the input of the audio power amplifier in the Audio and power unit selected, i.e. P6, P8 or P10.

The antenna is brought to the outside of the cabinet. The remaining connection terminates in a plug; the numbers of the pins are shown in the circles (See Circuit Diagram). On Model M-30 the Phonograph connection terminates in Changer Unit.

Frequency Ranges

Short Wave 1-6 mc-10.0 mc Standard Broadcast 540 kc-1620 Short Wave 2 11.6 mc-15.5 mc

ALIGNMENT PROCEDURE:

speaker should be linked with the Audio and power supply The cables connected to the tuner unit and the loud-

graph operation and check the input). If this unit functions; then proceed to align. Check the amplifier circuit first. (Switch to phono-

on the volume control. The volume control may then be nection should be made between the chassis and the slider used to adjust the cathode ray spot deflection. Cathode Ray alignment is the preferable method. Con

trol to maximum. this meter across the voice coil and turn the volume con-Output Meter alignment. If this method is used, connect

avoid excessive A.V.C. action. keep the output of the oscillator as low as possible to Test Oscillator. For all alignment operations, connect the low side of the test oscillator to the receiver chassis and

quency. This is particularly important around frequencies stations (Broadcast and Short Wave) of known freused at specified alignment points. test oscillator by zero beating the test oscillator against Where possible determine the exact dial settings of the

m.	400 ohms 11.8 Mc	-	11.8 Mc	11.8 Mc 19-25
400 ohms	15 Mc	15 Mc 19-25		19-25 15 Mc 1
400 ohms	6 Mc		Мс	Мс 31-49 6
400 ohms 1	10 Mc	.0 Мс 31-49		31-49
200 Mmfd. 15	1500 Kc	00 Kc Broadcast		Broadcast
200 Mmfd. (600 Kc	00 Kc Broadcast		Broadcast
44	455 Kc	55 Kc Broadcast	Ke	Kc Broadcast
44	455 Kc	55 Kc Broadcast		Broadcast
s_	Freq. Setting	Freq. Selector etting		Selector
TEST OSCILLATOR		Dance		Distance Dist

Note: Any adjustment to the end turn of the SW Oscillator coil effects the low frequency end of both SW bands.

CIRCUIT ARRANGEMENT:

Two coils only are used in each stage, although three bands are operated; the broadcast band has its own set of coils, one for each stage and the two short wave bands have one common coil per stage. The RF trimers are switched in separately; any adjustments made at the high frequency ends of the two short wave bands are thereby made independently; one adjustment doesn't affect the other. However, any end turn adjustment of the SW oscillator coil does affect both SW bands at the low frequency end.

A conventional I.F. amplifier circuit employing capacitor tuning and air core coils is used; the second I.F. transformer secondary being detected by means of a diode enclosed within the 6SQ7 tube. A compensated volume control circuit is employed and the tone control circuit design around this compensation is associated with the plate circuit of the triode section of the 6SQ7.

At one extremity the tone control introduces a bi-pass condenser between the plate circuit of the audio triode and ground, cutting the upper register; simultaneously the full effect of the volume compensation circuit (convenientally introduced by means of a tapped volume convenients). trol) is brought into play.

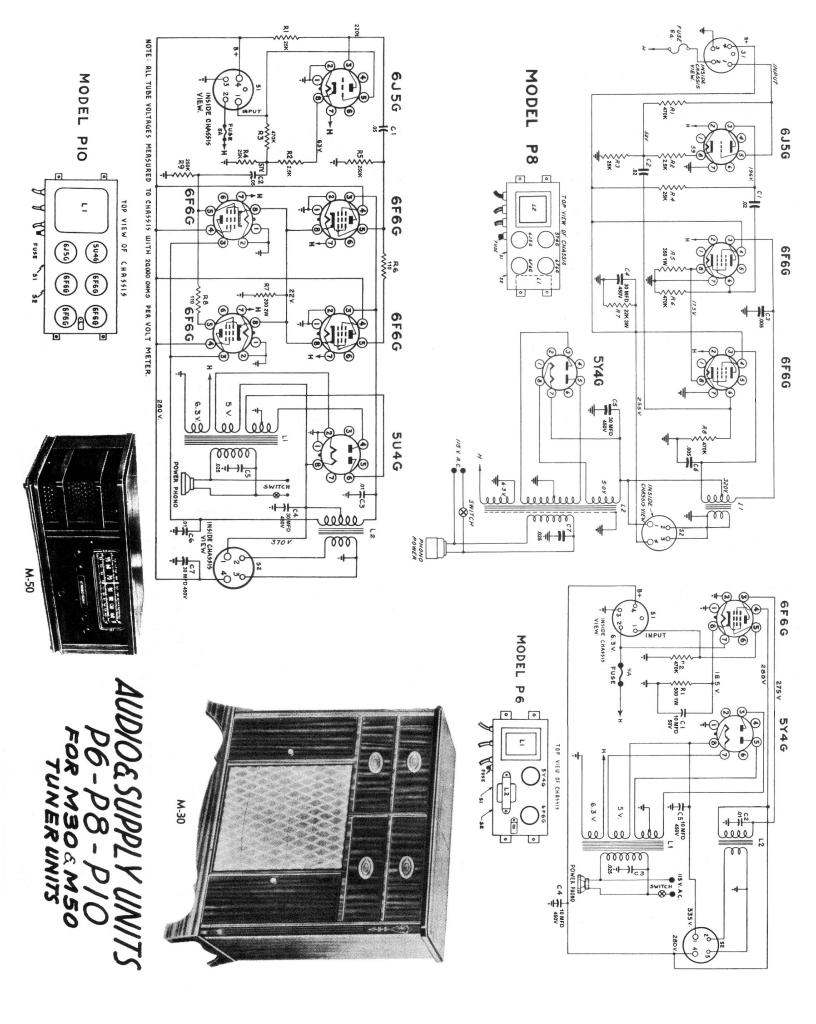
At the other end of the control, the compensation con-denser is short circuited and the effect of the bi-pass con-denser is nullified by the resistance element of this Intermediate positions of the slide contact

the tone control produces tone balance to suit the individual. A condenser couples the plate of the audio triode to the cable connector; this connection feeds the power amplifier circuit chosen.

PHONOGRAPH RECORD CHANGER FOR M-30

supplied. A V.M. intermix "Strobo-Sonic" Record Changer is

ALIGNMENT DATA FOR MODELS M30-M50 1F=455_{KC}



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