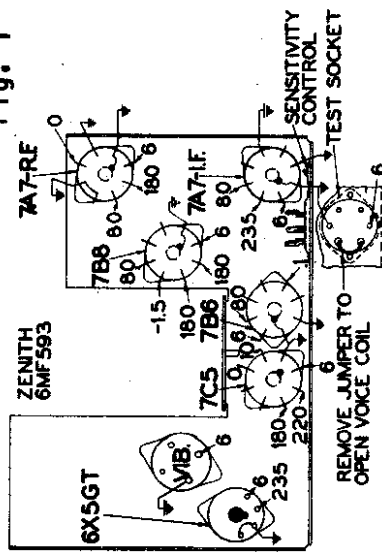


Fig. 1
 SOCKET VOLTAGES AS MEASURED WITH 1000 OHM PER VOLT METER TO CHASSIS, VOLUME CONTROL AT MAXIMUM WITH NO SIGNAL, BATTERY 6.3 VOLTS.



TUBE COMPLEMENT

- 7A7 R.F.
- 7B8 Oscillator and Modulator;
- 7A7 I.F.;
- 7B6 Second Detector and A.V.C.;
- 7B5 Pentode power output;
- 6X5GT Rectifier.

1941 SPECIAL 11A-18605-C1
 Sylvania
 Sylvania Motor Company

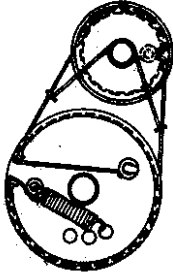
I. F. 455 K.C.

CURRENT CONSUMPTION - 6 amp. TUNING RANGE 540 - 1600 K.C.

PART NO.	CONDENSERS	RESISTORS	DESCRIPTION
G12-1172	2 GANG VARIABLE COND.	R-1 63-597 470 M OHMS	ANT MOTOR NOISE CHoke
C2 22-1177	ANTENNA TRIMMER	R-2 83-368 600 OHMS	ANTENNA COIL
C3 22-230	.05 MFD	R-3 83-148 SENSITIVITY CONTROL	AF COIL
C4 22-289	50 M MFD MICA	R-4 83-595 100 V OHMS	I.F. TRANSFORMER
C5 22-170	1 MFD	R-5 83-913 65 MEG OHM	OUTPUT "
C6 22-170	250-250 DUAL MICA	R-6 83-336 22 M OHMS	2 I.F. TRANSFORMER
C7 22-908	005 MFD	R-7 83-211 1 MEG OHM	SPKAFER
C8 22-435	02 MFD	R-8 83-1177 250M OHMS VOL. CONT.	VIBRATOR
C9 22-1170	01 MFD	R-9 83-804 10 MEG OHM	POWER TRANSFORMER
C10 22-1171	012 MFD	R-10 83-206 220 M OHMS	WASH CHoke
C11 22-908	5 MFD	R-11 83-941 300 OHMS	HEATER LINE CHoke
C12 22-1179	10-020 M MFD 350-25V	R-12 83-971 220 OHMS	VAL LIGHT
C13 22-1115	05 MFD	R-13 83-1170 1500 OHMS	SWITCH ON VOL CONTROL
		R-14 20-229	MOTOR NOISE CHoke
		R-15 134-11	FUSE
		R-16 58-82	VOICE COIL JUMPER
		R-17 78-248	TEST SOCKET

SENSITIVITY - 9 microvolts at one watt output.
 POWER OUTPUT - 3 watts measured at the voice coil.

GANG MESHEDED, DIAL AT 540 K.C.



6MF593

Fig. 6

The Zenith Radio Corporation furnishes the antenna for 1941 Ford and Mercury only.

Parts for this antenna will be available at your Zenith distributor.

The jumper shown on the test socket in Fig. 1 is provided so that an output meter may be connected to the voice coil side of the output transformer.

If you have the type of output meter which is usually connected to the plate of the output tube, it may be adapted for this type of connection by following the instructions shown in Fig. 7.

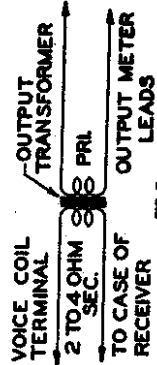
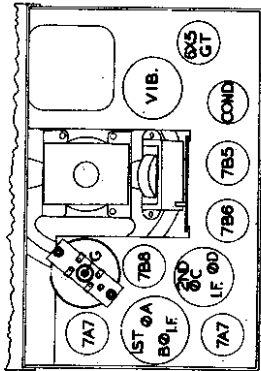


FIG. 7

I. F. —

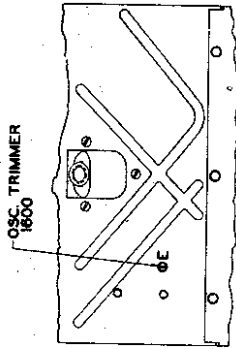
1. The tuning control is rotated until the condenser plates are fully meshed. (540 K.C.)



TUBE LAYOUT MODEL 6MF593

Fig. 3

6. Set the signal generator to 600 K.C. and rotate the tuning control until the signal is heard.



TRIMMER LAYOUT MODEL 6MF593

Fig. 4

2. The signal generator is set at 455 K.C. and fed through the special Zenith dummy to the receiver.
3. The adjustment screws A, B, C and D (see Fig. 3) are then adjusted in order for maximum response.

7. The condenser gang is then rocked slightly while adjusting the 600 K.C. core G (see Fig. 3)
8. Repeat operations 4 and 5.

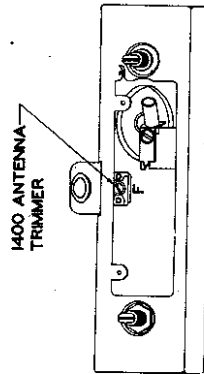


Fig. 5

The stringing of the cord is very important. Figure 6 shows the proper way to string the dial cord.

ALIGNMENT:

The alignment of a receiver is one of the most important functions that a service man performs, and the instructions must be carefully followed.

CAUTION:

Care should be taken while making all adjustments on the receiver to have the volume control turned full on. The intensity of the signal should be reduced only at the signal generator.

The signal for the entire alignment procedure, both I.F. and R.F. is fed through a special Zenith dummy which can be purchased from your Zenith distributor, Part No. S9187. The capacities in the Zenith dummy antenna as shown in Fig. 2 are identical with the Ford antenna.

NOTE:

This receiver is equipped with an adjustable sensitivity control located on the bottom of the chassis as shown in Fig. 1. The control is set at the factory to a position which gives sensitivity of 9 microvolts at 1 watt output. It is found advisable to hold the receiver at this level as any higher sensitivity may result in excessive background noise and unless laboratory equipment is available for measuring sensitivity it is not advisable to change the setting.

R. F. —

1. The tuning control is rotated until the condenser plates are out of mesh. (1600 K.C.)
2. The signal generator is set to 1600 K.C.
3. Adjust the 1600 K.C. oscillator trimmer E (see Fig. 4) for maximum response
4. Set signal generator to 1400 K.C. and rotate the tuning control until a signal is heard.
5. Adjust the 1400 antenna trimmer F (see Fig. 5) for maximum response.

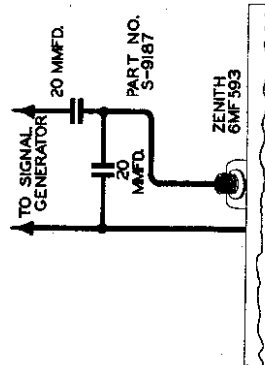


Fig. 2