

**'PHILCO RADIO & TELEVISION CORP.'**

**MODEL 14, 91**  
**(126-226)**  
**Chassis**  
**Speaker**  
**Voltage**

The Philco Radio of the 91 and 14 series is a nine-tube superheterodyne receiver combining standard broadcast, police and airplane reception and employs the high efficiency 6.3 volt filament tubes, automatic volume control, bass compensating tone control, shadow tuning, and push-pull pentode output. The chassis is made in two different types, one known as the 126 type, employing a single dynamic speaker, and the other known as the 226 type, employing twin dynamic speakers. These type numbers appear on the radio chassis as a part of the model number. Chassis of one type are not interchangeable with those of another. The intermediate frequency used in adjusting the superheterodyne circuit of the 91 and 14 series is 260 kilocycles. The power consumption of the various models is as follows: Single Speaker models, 90 watts; Twin Speaker models, 95 watts.

**Table 1—Tube Socket Data\***  
**Power Line Voltage 115 Volts**

Circuit	R. F.	Det. Osc.	I. F.	Det. Rect.	Det. Amp.	Audio	Output	Output	Rect.
Type Tube	44	36	44	37	37	37	42	42	80
Filament Volts—F to F	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.0
Plate Volts—P to K	200	250	250	0	60	100	240	240	310
Screen Grid Volts— SG to K	50	80	85				250	250	
Control Grid Volts— CG to K	6	10	2	2	2	0	15	15	
Cathode Volts—K to F	25	10	5	2	2	2	15	15	

\* All of the above readings were taken from the underside of the chassis, using test prods and leads with a suitable A. C. voltmeter for filament voltages and a high resistance multi-range D. C. voltmeter for all other readings. Volume control at maximum and station selector turned to low frequency end. Readings taken with a radio set tester and plug in adapter will not be satisfactory.

**Table 2—Power Transformer Data**

Terminal	A.C. Volts	Circuit	Color
1-2	105 to 125	Primary	White
3-5	6.3	Filament	Black
6-7	5.0	Filament 80	Blue
8-10	670	Plates of 80	Yellow
4		Center Tap of	Black—Yellow
		3-5	Tracer
9		Center tap of	Yellow—Green
		8-10	Tracer

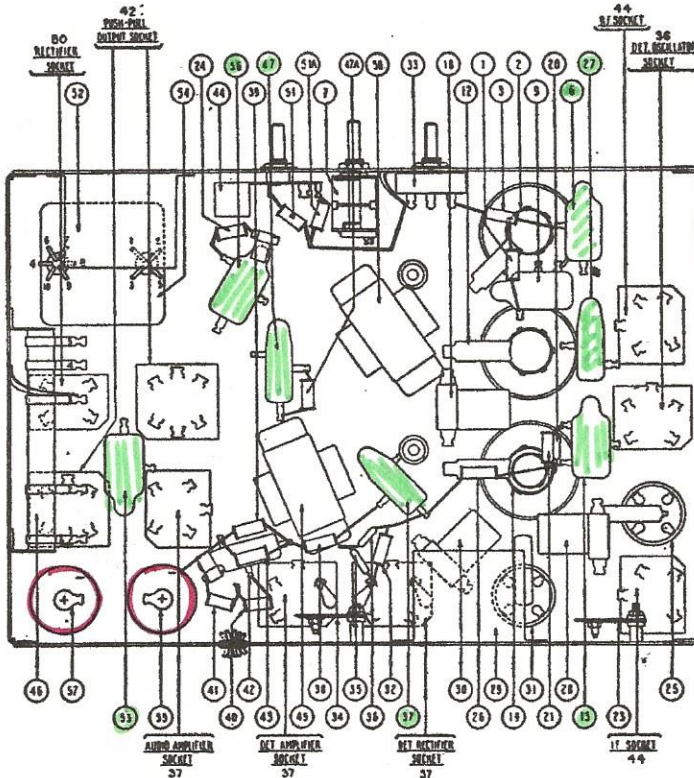


Fig. 1—Parts Diagram



Terminal Arrangement of Tube Sockets Viewed from Under Side of Chassis

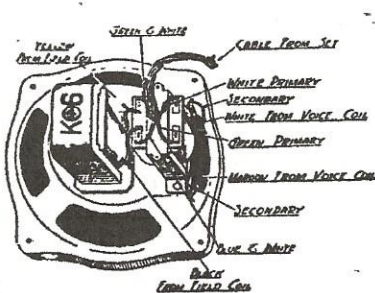


Fig. 2—Speaker Connections—126 Code

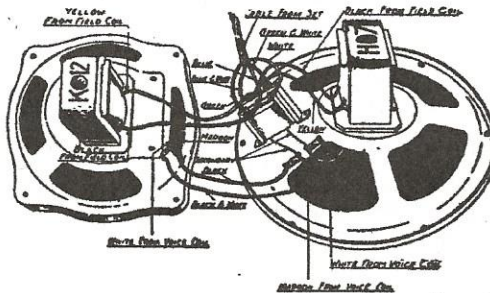


Fig. 3—Speaker Connections—226 Code

**Model 91—**

Key No. in Wiring Dia.	Resistance in Ohms	
	Primary	Secondary
(2)	Inner 24	6.6
(12)	Outer 3.3	5.8
(19)	Inner 4.	3.7
(25)	Outer 5.2	67
(31)	67	55
(45)	2000	2400
(48)	700	
(50)	3275	
(52)	3275	
(54) Single Speaker Models	3.1	.09 Fila.
(54) Twin Speaker Models	2.77	11.80 Fila.
(58)		176 .80 Plate
		.09 Fila.
		11.80 Plate
		128 .80 Plate
	285	

In run number 1, the (15,000 ohm) resistor @ part number 6208 was changed to new resistor (10,000 ohms) part number 4412. Condenser @ part number 3615AM was changed to new condenser part number 3615AF. A terminal block part number 03103 was added. This terminal block was mounted on the condenser @ part number 4989K or 4989T.