

PHILCO SERVICE



TELEVISION SERVICE MANAGER'S MANUAL

PHILCO TELEVISION MODEL 49-1240

and

PHILCO RADIO-TELEVISION-PHONOGRAPH

Model 49-1275

Supplement to Preliminary Information on Model 49-1075.

This information is a supplement to the preliminary information already published pertaining to Philco Radio-Television-Phonograph Model 49-1075. The schematic of Model 49-1075 is to be used in conjunction with this information together with the necessary inserts printed herein.

Model 49-1275 differs from Model 49-1075 in the following manner:

1. High voltage anode supply as shown in Figure #1.
2. 49-1275 uses an M-9 type changer, information for which may be found in PR-1478.
3. Wiring changes.

Model 49-1240 differs from Model 49-1075 television chassis in the following manner:

1. High voltage anode supply as shown in Figure #1. (Same as Model 49-1275)
2. Aerial and input circuits as shown in Figure #1.
3. Wiring changes
4. Provision for external source high impedance audio input.

As noted above, two of the differences between Model 49-1075 and 49-1240 are in wiring changes and provision for external audio input--the details for which are as follows:

1. Removal of lead connecting R513 to test point A of Section 1 (terminating at point marked with arrow and 230 reading).
2. Removal of orange lead from pin #10 of 10BP4 picture tube to junction of C320, C323, R328 and R329.
3. Connection of orange lead from pin #10 of 10BP4 picture tube to junction of C502A, R507 and R508.
4. Addition of connection from R513 (bottom) to junction of C502A, R507 and R508.

Section 2

- (1) A jack J201, Part No. 27-6126, and a switch S200, Part No. 42-1863, are added to adapt the audio system for an external high-impedance audio source. The wiring diagram is shown in Figure 2.

(2) A 100 mmf condenser, C222, Part No. 62-110009001, is added. Wiring is shown in Figure 2.

Section 3

Resistor R329, 4700 ohms, Part No. 66-2474340* is changed to 15,000 ohms, Part No. 66-3154340*.

Section 5

A 100-ohm cathode bias resistor, R535, Part No. 66-1105340* is added as shown in Figure 3. This resistor is switched into the circuit by S500 for audio operation from an external source, and is switched out for TV operation. S500 is part of S200.

Model 49-1275

As noted above, differences between Models 49-1075 and 49-1275 include wiring changes, which are given below:

1. Removal of lead connecting R513 to test point A of Section 1. (Terminating at point marked with arrow and 230V reading.)
2. Removal of orange lead from pin #10 of 10BP4 picture tube to junction of C320, C323, R328 and R329.
3. Connection of orange lead from pin #10 of 10BP4 picture tube to junction of C502A, R507 and R508.
4. Addition of connection from R513 (bottom to junction of C502A, R507 and R508.

Section 1

The power transformer should be Part No. 32-8376.

Section 2

A 100 MF condenser C222, Part No. 62-110009001 is added. Wiring is shown in Figure 2.

A 10 MF condenser, Part No. 30-2417-6*, is added, and is connected between the top of resistor R330 and ground. The physical connections are as follows:

The common tie point (lug) on the terminal strip for R327 and R328 is moved to the next lug at the left. The wire connecting these two lugs is removed. The 10 MF condenser is then added between the first lug (from which R327 and R328 were removed) and ground. The ground connection is made at the lug located on a terminal strip immediately beside the 7Z4 rectifier tube. A lead is then added between the condenser and the top of R330.

Radio Chassis Model 49-1275

1. Resistor R600 is removed, and the rectifier is connected directly to B-.
2. Resistor R603 is changed to 50 ohms, Part No. 33-1335-84.
3. On the schematic, the numbers 1 and 2 of Z801 (AM i-f transformer) secondary leads should be transposed.

With the exception of the following additions and changes, the parts list for the Model 49-1075 is applicable to Models 49-1275 and (television chassis) to 49-1240.

Section I

C-108	Condenser, high voltage filter, 500 mmf Models 49-1275, 49-1240	30-1229-2
C-109	Condenser, d.c. blocking, 500 mmf Models 49-1240, 49-1275	30-1229-2
R-105	Resistor, diode load, 2 megohms, 5 watts Models 49-1240, 49-1275	33-1338
R-106	Resistor, telltale voltage dropping, 33 ohms Model 49-1275	66-0333340*
S-100	Switch, ON-OFF, Model 49-1240 Model 49-1275	part of R-200 part of 76-3964

Section II

J-201	Jack, external audio input	27-6126
LS-200	Speaker, Model 49-1275 Model 49-1240	36-1610-2 36-1610-3
R-200	Volume control, 2 megohms (tap at 1 meg) Model 49-1275 Model 49-1240	part of 76-3964 33-5564
S-200	Switch, external audio	42-1863
76-3964	is a 2-section wafer switch (including volume control and ON-OFF switch)	

Section V

C-513	Condenser, horizontal sweep charging, 560 mmf Models 49-1240, 49-1275	60-10565401*
R-504	Focus control, 500 ohms Models 49-1240, 49-1275	33-5547-5
R-535	Resistor, 100 ohms, cathode bias	66-1105340*
R-537	Resistor, damping, 120,000 ohms Models 49-1240, 49-1275	66-4125340*
S-500	Switch	part of S200
T-503	Transformer, horizontal-sweep output Models 49-1240, 49-1275	32-8358
Z501	Focus-coil assy. Models 49-1240, 49-1275	76-2622-3

Miscellaneous

Cabinet

Model 49-1275 (M)	10711A
(L)	10711C
Model 49-1240 (M)	10716
(L)	10716A

Back and cup assy., Model 49-1240	76-3986
Baffle, masonite, Model 49-1240	219-118

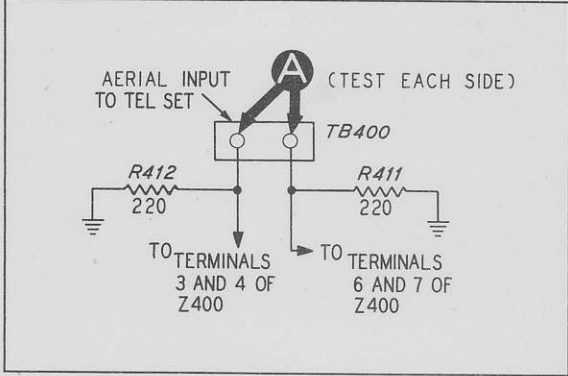
Brace, picture tube

Model 49-1240	
3 1/2" x 5 5/8"	56-5581-4FA3
3 1/2" x 6 7/8"	56-5581-5FA3

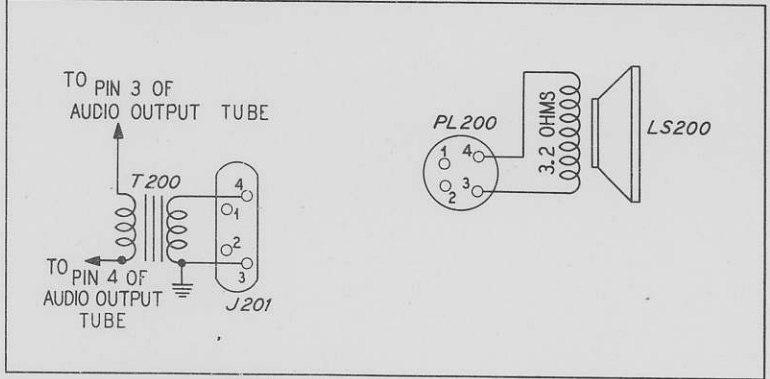
Dome, Model 49-1240	45-6190
Door, Model 49-1240 (M)	45-6439

Miscellaneous (cont'd)

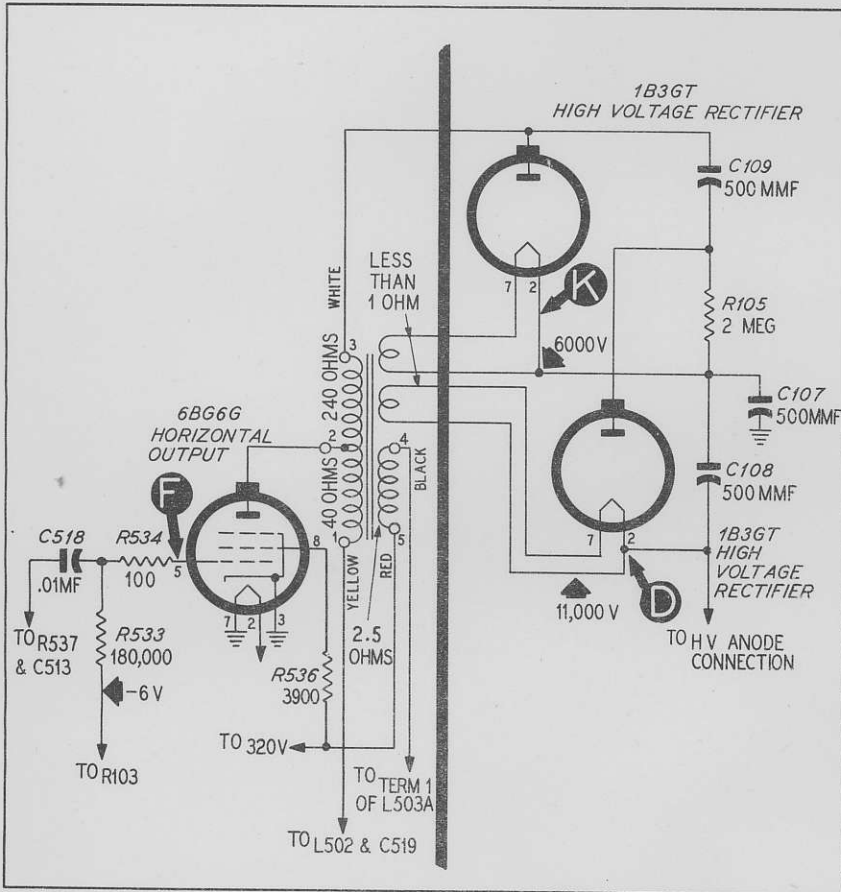
Escutcheon, Model 49-1240 (M)	56-6309
(L)	56-6309-1
Hinge, knife	
Model 49-1240 (M)	56-5765
(L)	56-5765-1
Mask, Model 49-1240 (M)	56-6332
(L)	56-6332-1
Strap, scale, Model 49-1240	56-5825
Window, Model 49-1240	54-7595-1
Model 49-1275	54-7609
Cable Assy., high voltage	41-3771-3
Clamp, resistor high voltage assy.	
Models 49-1240 and 49-1275	54-7541
Mounting Frame Assy., picture tube	
Model 49-1240	76-3938
Standoff	
Model 49-1240, 49-1275	54-7309-2



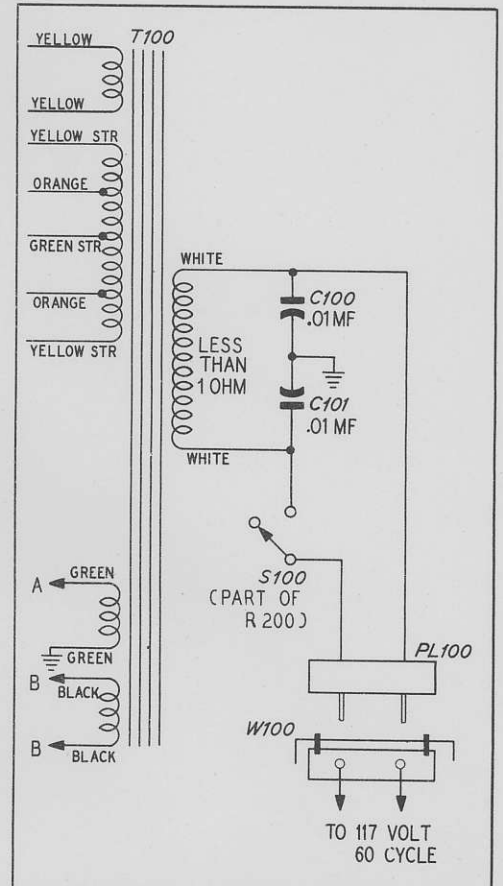
MODEL 49-1240



MODEL 49-1240



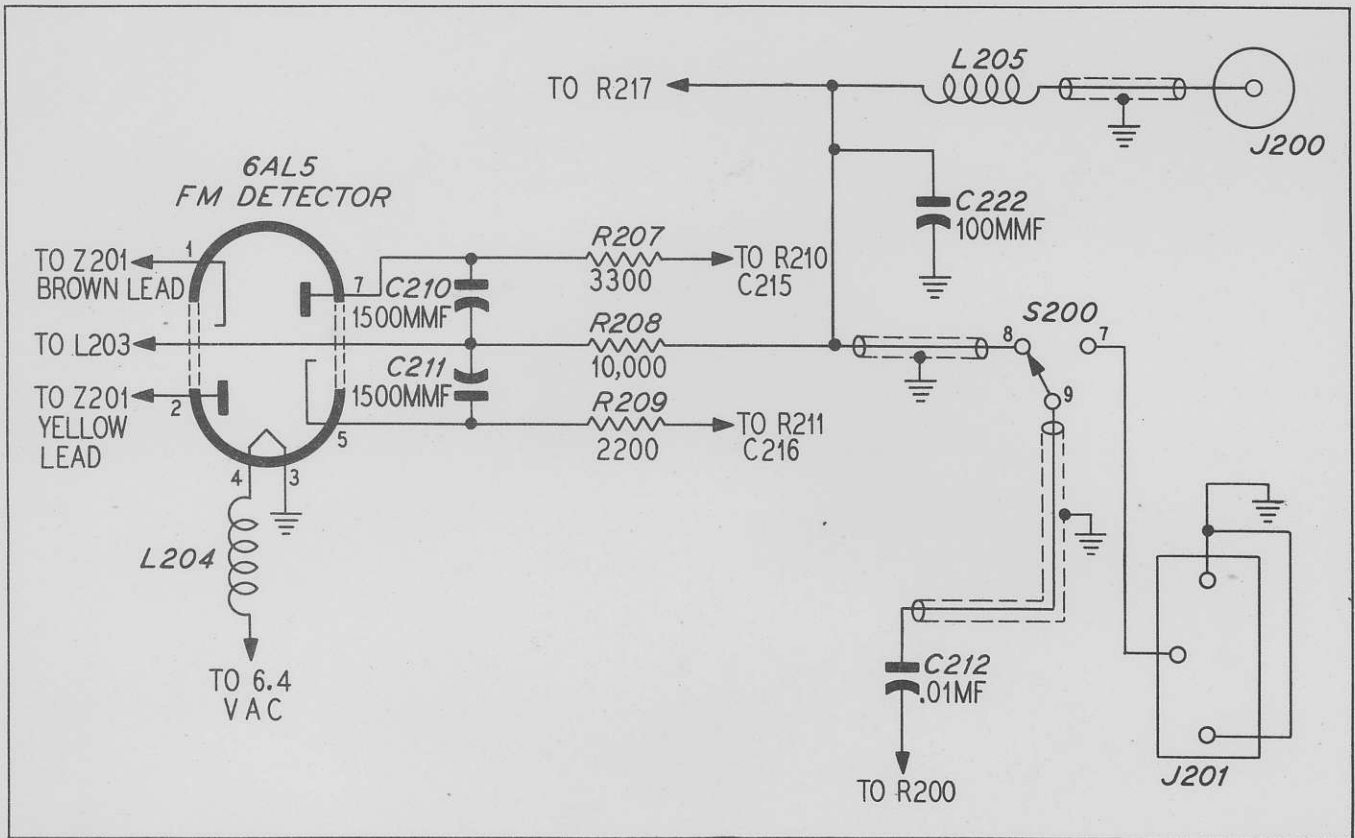
MODELS 49-1240 AND 49-1275



MODEL 49-1240

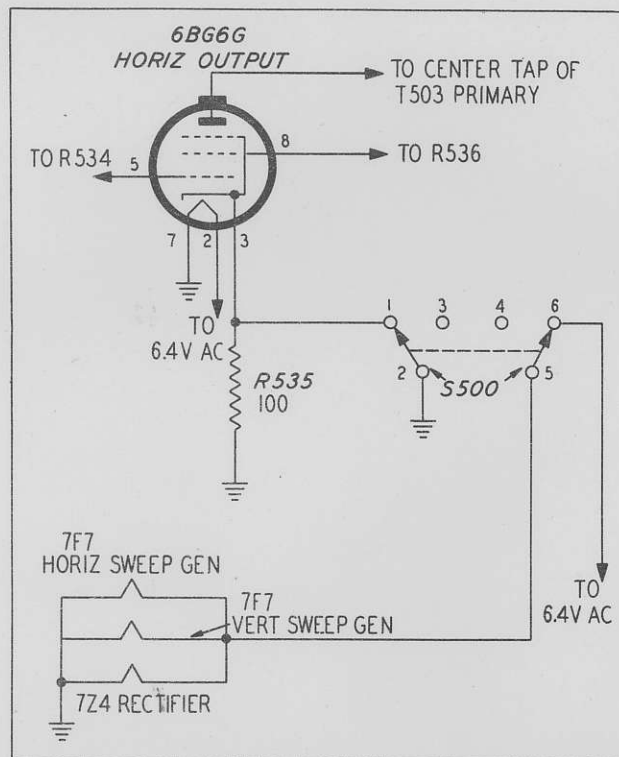
TP-6434 M

Figure 1



TP-6473

Figure 2



TP-6474

Figure 3