

## Philco Radio & Television Corp.

**Model:** 71

**Chassis:**

**Year:** Pre October 1937

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

[Riders Volume 8 - PHILCO 8-10](#)

[Riders Volume 4 - PHILCO 4-35](#)

[Riders Volume 4 - PHILCO 4-43](#)

MODELS 15, 111, 112 (Above Ser. #174001), 211, 212, 211A, 212A  
MODELS 22, 22L, 71, 270, 370

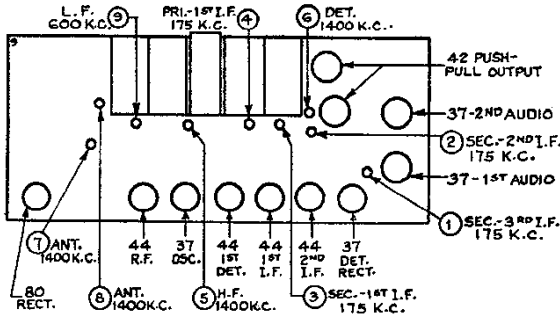
PHILCO RADIO & TELEV. CORP.

MODELS 35, 35B, 36, 37  
Alignment, Trimmers

MODEL NOS. 15, 111, 112, 211, 212

Signal Generator Connection	Signal Generator Frequency	Dial Position	Wave Band Switch Position	Trimmer Number	Output Signal
Remove grid clip from 1st det.					
1st det.	175 k.c.	55	...	1	Max.
"	"	"	...	2	Max.
"	"	"	...	3	Max.
"	"	"	...	4	Max.
Connect grid clip to 1st det.					
Ant.**	1400 k.c.	140	...	5	Max.
"	"	"	...	6	Max.
"	"	"	...	7	Max.
"	"	"	...	8	Max.
"	600 k.c.	60	...	9	Max.**
"	1400 k.c.	140	...	5	Max.

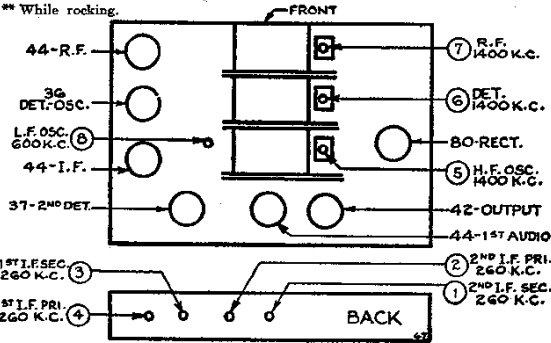
\* While rocking.  
\*\* Connect 200-mmf. condenser between signal generator and antenna post, at the antenna post.



MODEL NOS. 71, 270, 370, 22, 22L

Signal Generator Connection	Signal Generator Frequency	Dial Position	Wave Band Switch Position	Trimmer Number	Output Signal
Remove grid clip from det.-osc.					
Control grid of det.-osc.	260 k.c.	55	...	1	Max.
"	"	"	...	2	Max.
"	"	"	...	3	Max.
Connect grid clip to det.-osc.					
Ant.	1400 k.c.	140	...	5	Max.
"	"	"	...	6	Max.
"	600 k.c.	60	...	8	Max.**
"	1400 k.c.	140	...	5	Max.

\* Connect a 200-mmf. condenser between signal generator and antenna post of set, at the antenna post.



MODEL NO. 37

Signal Generator Connection	Signal Generator Frequency	Dial Position	Trimmer Number	Output Signal
Remove grid clip from 1st det.				
Control grid of 1st det.	260 k.c.	55	1	Max.
"	"	"	2	Max.
"	"	"	3	Max.
Connect grid clip to 1st det.				
Ant.*	1400 k.c.	140	4	Max.
"	"	"	5	Max.
"	600 k.c.	60	7	Max.**
"	1400 k.c.	140	4	Max.

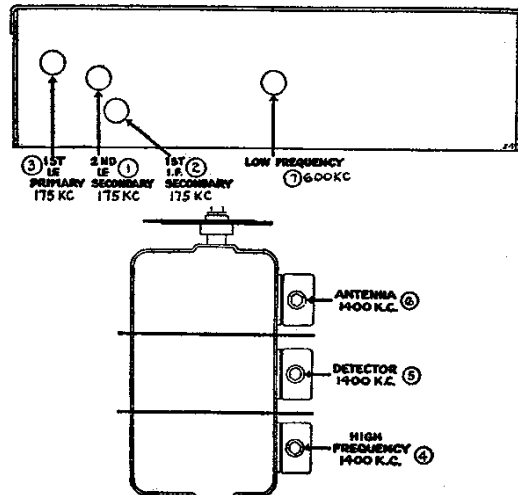
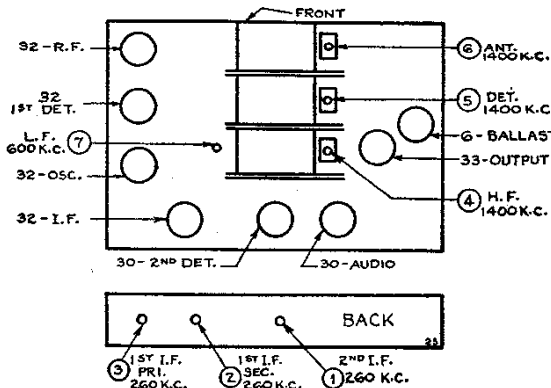
Note 1.—(1), (2), and (3) are accessible at rear of chassis.  
Note 2.—(7) is accessible through hole from top of chassis.  
\* Connect a 200-mmf. condenser between signal generator and antenna post of set, at the antenna post.

\*\* While rocking.

Signal Generator Connection	Signal Generator Frequency	Dial Position	Trimmer Number	Output Signal
Remove grid clip from 1st det.				
Control grid of 1st det.	175 k.c.	55	1	Max.
"	"	"	2	Max.
"	"	"	3	Max.
Connect grid clip to 1st det.				
Ant.*	1400 k.c.	140	4	Max.
"	"	"	5	Max.
"	600 k.c.	60	7	Max.**
"	1400 k.c.	140	4	Max.

\* Connect a 200-mmf. condenser between the signal generator and the antenna post of the set, at the antenna post.

\*\* While rocking.



PHILCO RADIO & TELEVISION CORP.

MODEL 71  
Shadow tuning data

INSTRUCTIONS FOR INSTALLING SHADOW TUNING METER

IN PHILCO MODEL 71

The mechanical part of the installation of the shadow tuning meter is accomplished by means of the two brackets supplied with the kit which are to be fastened to the tuning dial bracket with the two small screws provided for this purpose. The dial bezel on the set is to be replaced with the new bezel which will require the enlarging of the hole in the control panel to accommodate the opening for the shadow screen.

In some of the later 71 chasses the wiring at the terminal board of choke #8, Service Bulletin #128, will be arranged as shown in the accompanying figure and with a short piece of wire connecting terminals A and B. In these sets it is only necessary to remove the link and to connect the tuning meter leads to these terminals.

The earlier chasses which are not already wired for the tuning meter in the above manner will require the following changes.

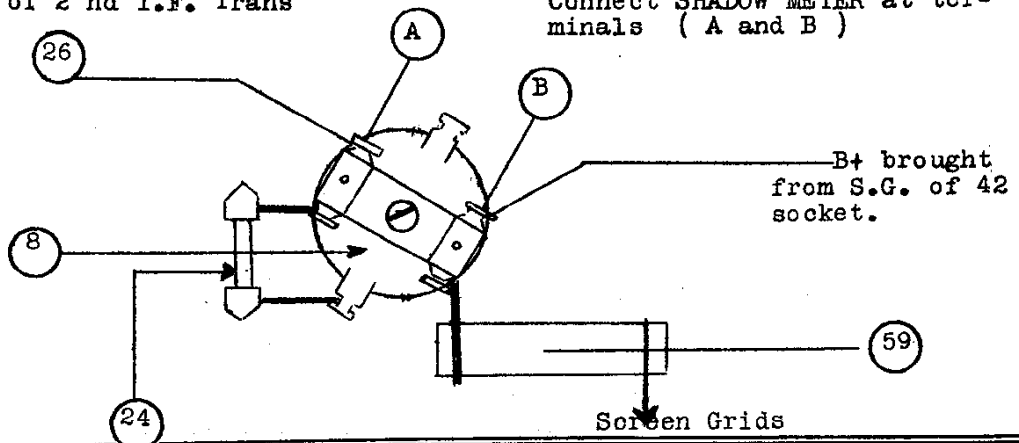
If the terminal strip at the top of choke #8 has only a single terminal, remove the strip and replace with the double terminal strip furnished with the kit. In other chasses equipped with the double terminal strip, a common lead from resistors #27, 28 and 17 and condensers #31 and 32 will be found connected to terminal A. In this case the common lead should be removed and connected to this corresponding terminal of by-pass condenser #32. After making either of these changes, the wiring at the terminal strip should be re-arranged as illustrated.

The B+ lead coming from the screen grid contact of the 42 socket must be broken at this point and connected at terminal B as shown. When the changes have been properly made, the B+ lead will be connected to the screen grids of the R.F., I.F., and detector oscillator tubes through resistor #59 and to the plates of these three tubes through the shadow tuning meter.

To complete the changes remove resistor #23 and wire the terminal on the first I.F. transformer from which the resistor was removed to the terminal on by-pass condenser #5 to which resistor #17 is connected. This change will connect the grid returns of the R.F. and I.F. tubes to a common point and through resistor #17 to the automatic volume control circuit.

To B+ of 2nd I.F. Trans

Connect SHADOW METER at terminals (A and B)



**PHILCO RADIO & TELEVISION CORP.**

**SEE INDEX**

**FOR FURTHER INFORMATION ON THESE RECEIVERS,**

**Models 38 and 38-A**

**MODEL 38, 38-A**  
**MODEL 71**  
**MODEL 89-126-126-B**  
**MODEL 19-122-126-126B**  
**MODEL 91, 14, 91-122**  
**MODEL 91-A, 121**  
**Changes**

The following additional list prices should be included in the Replacement Parts list:

No. on Figs.	Description	Part No.	List Price
①	Volume Control	33-5017	\$0.72
②	Wave Band Switch	42-1030	.48
③	Antenna Transformer	32-1208	.48
④	Tuning Condenser Assembly	31-1076	2.70
⑤	Oscillator Transformer	32-1209	.78
⑥	1st I. F. Transformer	32-1251	.60
⑦	2nd I. F. Transformer	32-1252	.60
⑧	Voice Coil and Cone Assembly	36-3014	.60
⑨	Switch ("On-Off"; Battery)	42-1040	.54
⑩	Battery Cable Assembly (including Multi-Plug)	38-5265	.96
	Station Selector Dial Scale	27-5019	.14

**Note: The above list prices are effective September 15, 1933.**

**Model 71 Series**

To correct typographical error,—

Change Part No. 02761 ⑩, Speaker Field and Bucking Coil assembled with Pot (K-7)—(single speaker Models), to Part No. 02741.

Change Part No. 02762 ⑩, Speaker Field and Bucking Coil assembled with Pot—(K-9)—(twin speaker Models)—to Part No. 02761.

**Model 89-126-126B**

**Model 19-122-126-126B**

The following substitutions of electrolytic condensers are effective with current production:

Position	Code 122 (Model 19 only)	Code 126 and 126B (Models 89 and 19)
⑩	8095 (6 Mfd.), or 7464 (8 Mfd.)	30-2020, or 8166, or 4916, or 8095
⑪	8095 (6 Mfd.), or 7464 (8 Mfd.)	30-2021, or 8165, or 8095
		(These are all of 6.0 Mfd. capacity)

Effective with Run Number 5, Tuning Condenser ⑩ is superseded by Tuning Condenser, Part No. 31-1053. The complete Tuning Condenser Assembly ⑩ Part No. 06577, is superseded by Assembly, Part No. 31-1059.

The sub-base has been modified to accommodate the new condenser by change in location of mounting holes.

Effective with Run Number 6 for Model 89, and with Run Number 5 for Model 19, the red and black wires connecting Oscillator Transformer ⑤ and Compensating Condenser—(1st. I. F. Primary) ⑨ are reversed at the Compensating Condenser.

Part No. 3615BF Condenser is substituted for Part No. 3615E in ⑩.

Change Part No. 02761 ⑩, Speaker Field and Bucking Coil assembled with Pot (K-7), to Part No. 02741.

Effective with Run Number 6 for Model 89, and with Run Number 5 for Model 19, the red and black wires connecting Oscillator Transformer ⑤ and Compensating Condenser—(1st. I. F. Primary) ⑨ are reversed at the Compensating Condenser.

**Models 91 and 14 Series**

Make ⑩ Oscillator Coil read Part No. 05983. This part has a list price of 65 cents.

**Model 91-122**

With Run number 2, Tuning Condenser Assembly ④ will be changed to Part No. 31-1051, immediately superseding Part No. 31-1015. In the substitution, it is necessary to remove three of Part No. W-453 mounting bolts and add three of Part No. W-729 mounting bolts; to add three Part No. 29-6060 spacers, six Part No. 3914 rubber washers, and three Part No. W-410 washers.

**Model 91-A; Code 121**

Effective with current production, this Model will have two Part No. 8022 (10 microfarad) Electrolytic Condensers.