

PHILCO RADIO & TELEVISION CORP.

SEE MODELS BELOW

MODELS TP-20, TP-21, PT-35-36-43, Codes 121-122; and 55-59-67

Procedure PT-35 and PT-39

Table with columns: OPERATIONS, SIGNAL GENERATOR, RECEIVER, SPECIAL INSTRUCTIONS. Rows include: 1. Turn the tuning condenser to the extreme high frequency position...

Procedure TP-20, PT-43 (121, 122)-38-55-67

Table with columns: OPERATIONS, SIGNAL GENERATOR, RECEIVER, SPECIAL INSTRUCTIONS. Rows include: 1. Ant. Section of Tuning Condenser...

NOTE A - Turn the tuning condenser to the extreme high frequency position (all pins out of mesh). Insert a .004 frequency pad...

NOTE B - Turn signal generator to 1000 K. C. and tune receiver tuning condenser for maximum output...

SETTING AND OPERATING ELECTRIC PUSH-BUTTON TUNING

MODELS TP-21, PT-45-46-47-48-57-65 and 67
PT-49, PT-51, PT-59, TH-15, AND TH-17

Select five of your favorite nearby broadcast stations and remove their call letters from the station call letter tab sheets...

Table with columns: Push-Button (right to left), Circuit, Frequency Range, Push-Button (left to right), Frequency Range. Rows include: 1. Ant. Sec., 2. Osc., 3. Ant. Sec., 4. Osc., 5. Ant. Sec.

The left-hand button looking at the front of the cabinet corresponds to the two right-hand pusher screws looking at the back of the cabinet...

To tune the radio with the "Push-Buttons," simply press in the button which is under the call letters of the desired station...

While the above procedure is satisfactory in setting up the radio, it is not accurate. An adjustment can be obtained with a vacuum tube voltmeter...

MODELS TH-9, TH-18, TH-22, PT-25 (121-122); PT-27 (121-122)
PT-29-31-37-38-39-45-47-49-51-53

CONNECTING ALIGNING INSTRUMENTS

AUDIO OUTPUT METER: If an aligning indicator of this type is used, connect it to the plate and screen terminals of the output tube.

VACUUM TUBE VOLTMETER: To use the vacuum tube voltmeter as an aligning indicator, make either of the following connections:

- 1-Attach the negative terminal of the voltmeter to any point in the circuit where the A. V. C. voltage can be obtained. Connect the positive (+) terminal of the vacuum tube voltmeter to (B-) of the receiver. (Cathode ray)

2-An aligning adaptor, Philco Part No. 45-2767 can be obtained from your Philco Distributor for use with the vacuum tube voltmeter. To use the adaptor, remove the second detector tube from its socket and insert the aligning adaptor in the socket...

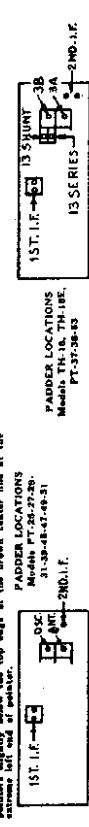
Models PT-25-27-29-31-38-45-47-49-51

Table with columns: OPERATIONS, SIGNAL GENERATOR, RECEIVER, SPECIAL INSTRUCTIONS. Rows include: 1. Ant. Section of Tuning Condenser...

Models TH-9, TH-18, TH-22, PT-25-27-29-31

Table with columns: OPERATIONS, SIGNAL GENERATOR, RECEIVER, SPECIAL INSTRUCTIONS. Rows include: 1. Ant. Section of Tuning Condenser...

NOTE B - The Push-Button Models PT-25-27-29-31 are not initially adjusted when the "Dial" is adjusted.

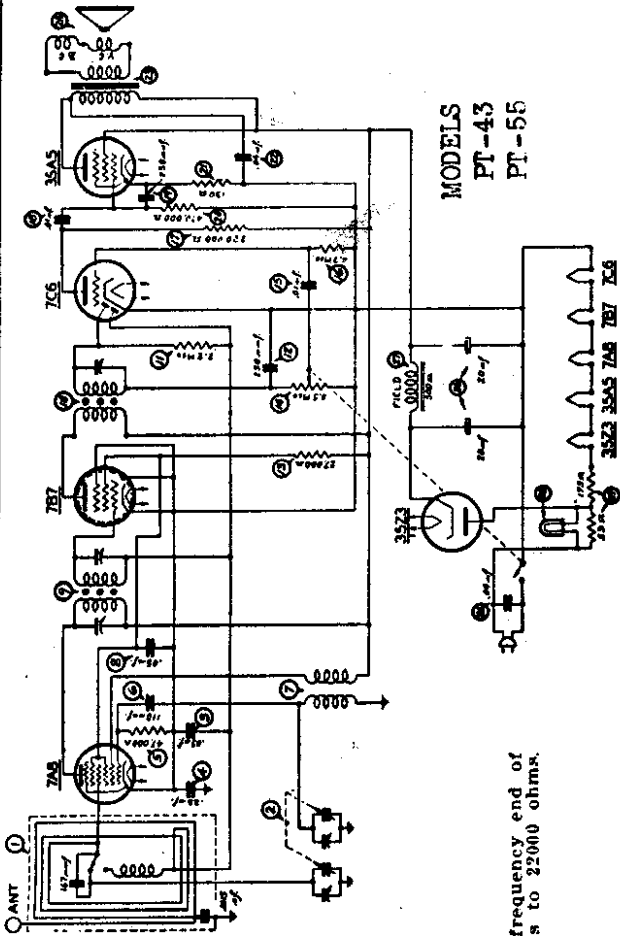


MODELS TH-14, TH-15, TH-16, TH-17, PT-26-28-33-41 (121-122);
46-48-50-57, PT-61 (121-122); and 65-66-69 (121-122)

Table with columns: OPERATIONS, SIGNAL GENERATOR, RECEIVER, SPECIAL INSTRUCTIONS. Rows include: 1. Ant. Section of Tuning Condenser...

NOTE A - DIAL CALIBRATION: The dial pointers are adjusted by placing the tuning condenser (plate fully meshed) and setting the pointers slightly below the top edge of the brown center line at the extreme left end of pointer.

PHILCO RADIO & TELEVISION CORP. MODELS PT-43(121, 122), PT-55
MODELS PT-45, PT-47



Models PT-43 and PT-55 are five tube superheterodyne radios, covering a frequency range from 540 to 1580 kilocycles (K. C.) on the broadcast band and 2.3 to 2.5 megacycles (M. C.) on the local police police range.

These models are similar with the exception of the cabinets. The circuit diagram and parts list shown below apply to both models.

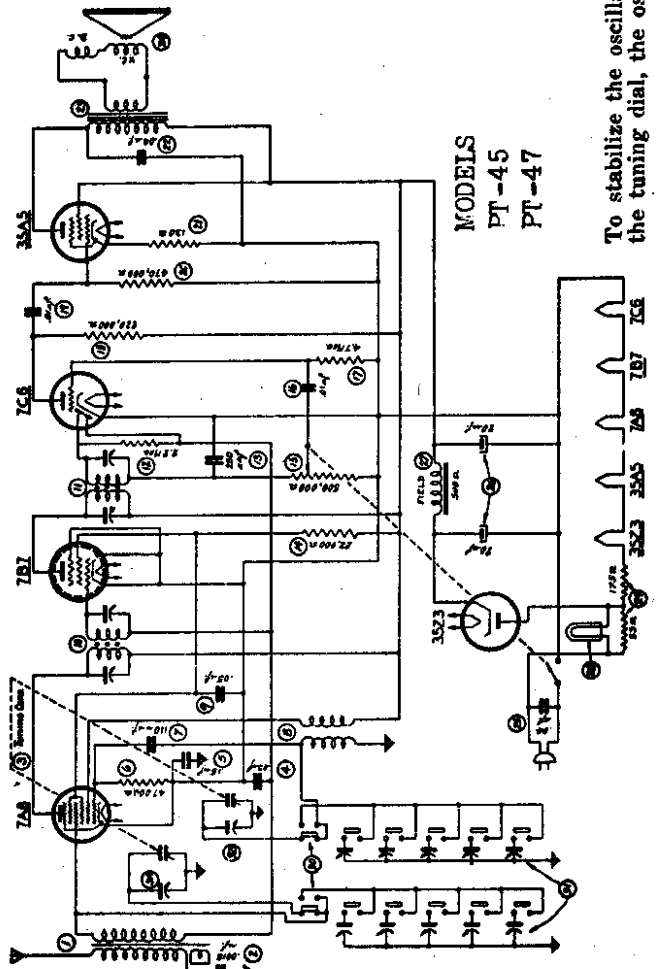
INTERMEDIATE FREQUENCY: 455 K. C.

One 7A8, converter; one 7B7, I. F. amplifier; one 7C6, 2nd detector, 1st audio, A. V. C.; one 35A5, audio output and one 35Z3, rectifier.

PRODUCTION CHANGE

To stabilize the oscillator circuit and prevent oscillation at the high frequency end of the tuning dial, the oscillator grid leak was changed from 47000 ohms to 22000 ohms.

FOR OTHER DATA AND TUNER, SEE INDEX



To stabilize the oscillator circuit and prevent oscillation at the high frequency end of the tuning dial, the oscillator grid leak was changed from 47000 ohms to 22000 ohms.

MODELS
PT-43
PT-55

PRODUCTION CHANGES

MODEL PT-43

Code number changed from 121 to 122 in addition to several part changes. These are as follows:

Loop Aerial Ass'y	Code 121	Code 122
Tuning Condenser	38-9936	32-3402
	31-2436	31-2446

Models PT-45 and PT-47 are five tube electric push-button tuning, superheterodyne radios with a manual tuning range covering 540 to 1720 kilocycles (K. C.)

Six electric push-buttons are provided on these models. Five of the push-buttons are used for stations and one push-button for selecting dial tuning. The push-buttons cover a frequency range as follows: 540 to 1600 kilocycles.

The procedure for adjusting and operating the electric push-buttons for stations will be found on page 10.

INTERMEDIATE FREQUENCY: 470 K. C.

One 7A8, converter; one 7B7, I. F. amplifier; one 7C6, 2nd detector, 1st audio, A. V. C.; one 35A5, audio output and one 35Z3, rectifier.

PRODUCTION CHANGE

To stabilize the oscillator circuit and prevent oscillation at the high frequency end of the tuning dial, the oscillator grid leak was changed from 47000 ohms to 22000 ohms.