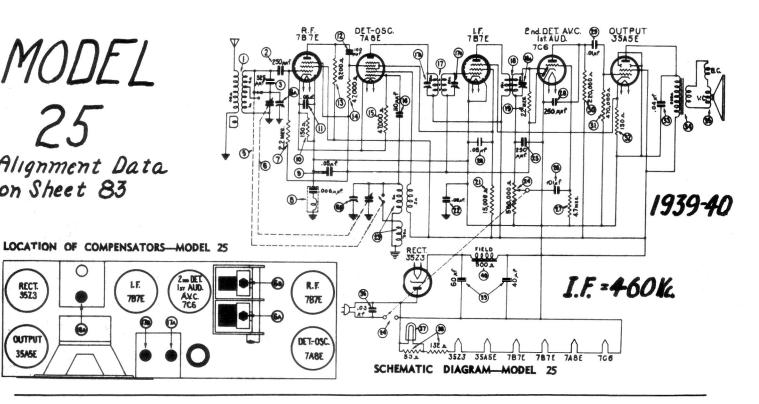
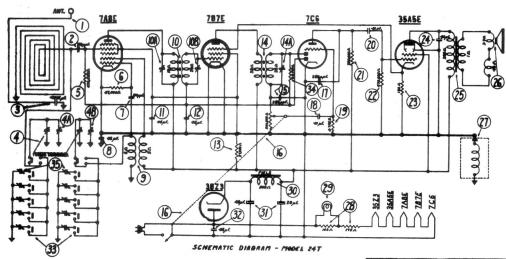
MODEL 25 Alignment Data on Sheet 83

OUTPUT



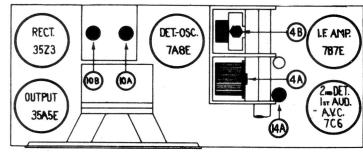


1939-40

1.F. = 460 Kc.

MODEL 24

Alignment Data on Data Sheet 83



LOCATION OF COMPENSATORS-MODEL 24

PHILCO

DATA SHEET 81

ALIGNMENT DATA

MODEL 24

MODEL 25

	SIGNAL GENERATOR			RECEIVER			o u	SIGNAL GENERATOR		RECEIVER			
Operati	Output Connections	Dial Frequency	Diel Frequency	Control Setting	Adjust Compensators for Maximum Signal	Remarks	Operat	Output Connections	Dial Frequency	Dial Frequency		Adjust Compensators for Maximum Signal	Remarks
1	High side to Ant. Section of Gang	460 Ke.	580 Ke.	Volume "MAX". Push "DIAL" button	144,108,104,144	Note A	1	High side to Ant. Section of Gang	460 Ke.	580 Ko.	Volume "MAX". Wave-Switch "EDCST"	184,178,174,184	Note A
2	High side to "Ant."	1500 Ke.	1500 Ka.	ditto	4B,4A	Notes B,C	2	High side to Ant. Lead	1400 Ke.	1400 Ka.	ditto	68,6▲	Notes B,
2	Check cal	ibration a	t 600 and 1	1000 Ke.	4B,4A		2	Lead Check cal		600 and	1000 Ke., turn wave		

NOTE A:

A dummy antenna consisting of a .1 mfd. condenser is connected in series with the high side of the signal generator output lead. This dummy is used for I.F. alignment only.

A dummy antenna for aligning the R.F. circuits consists of a 100 mmfd. condenser in series with the high side of the signal generator output lead.

The dial must be aligned to track properly with the tuning condenser. This is accomplished by closing the tuning condenser (maximum capacity) and setting the pointer to the extreme left index dot at the low frequency (550 Kc.) end of the broadcast scale.

Push button tuning adjustments MODELS 17, 19, 21, 701.

In order to adjust the electric push buttons accurately for reception of broadcast stations, a vacuum tube volt-meter such as Phileo Model 028 should be used. In addition, an insulated padding screw driver, Part No. 45-2610, and Loktal aligning adapter, Part No. 45-2767, are quired. With this equipment at hand proceed as follows:

Select seven of the most popular stations received in the locality. Insert the station call letters into the windows above the buttons. The station with the lowest frequency is placed in the first button on the left and the highest frequency is placed in the seventh (7) push-button. Each push button is adjusted by two set serews located on the rear of the push button unit. Each set of serews is numbered and covers a frequency range as follows:

Push-Button Freq. Range Freq. Range Model 21 Models 17,19,22

1, 2, 3 540-1030 Ke. 540-1060 Ke. 670-1160 Ke. 650-1110 Ke.

4, 5 6, 7, (also

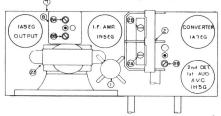
8 on Model 21)900-1600 Kc. 920-1600 Kc.

Looking at the front of the cabinet, the first button on the left is adjusted by set screw No. 1. The next push button by set screw No. 2 and the remaining push buttons in order.

- Remove the 7C6 A. F. tube from its socket and insert the aligning adaptor, then replace the tube in the adaptor. Connect the negative terminal of the vacuum tube volt-meter to the wire which protrudes from the side of the adaptor. Attach the positive terminal of the voltmeter to the chassis.
- 2. Turn the receiver on and set the tuning range disc to "Broadcast" (Manual Tuning).
- "Broadcast" (Manual Tuning).

 3. Set up the Model 177 Signal Generator about 3 feet from the receiver and connect a loop constructed out of about 6 feet of wire to the high and ground output jacks of the signal generator. Turn the output controls to maximum and set the modulation control to "MOD. ON". Manually tune in the first station to be set up on push button No. 1. After doing this set the indicator of the 177 Signal Generator to the frequency of the station being received. As the indicator approaches the frequency of the station a whistle will be heard; leave the indicator at this point. Turn the receiver tuning range disc to "Push Bitton" and press in No. 1 button. Using the insulated screw driver turn the No. 1 "Osc." screw until the broadcast station identified by the signal generator is heard; at this point, turn the indicator of the signal generator away from the frequency of the station. Readjust No. 1 "Osc." and "Ant. screws for maximum deflection of the vacuum tube voltmeter pointer. Station No. 1 is now adjusted properly. After setting up the first station the same procedure as outlined above is used for the remaining stations.

Chassis Layouts for MODELS 201, 206, 202, 204, 205



Top View and Compensator Layout Model 201.406

