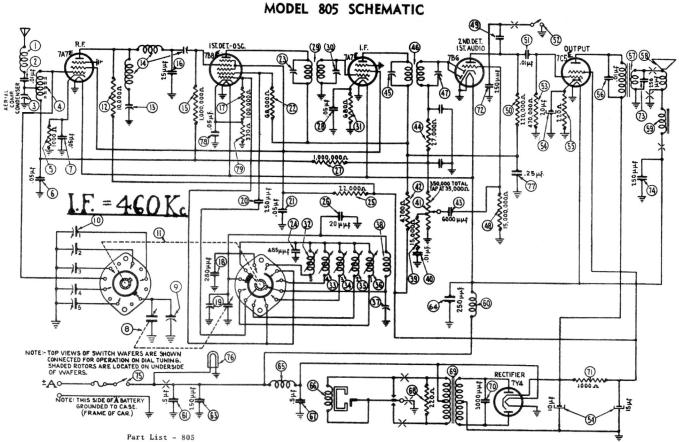


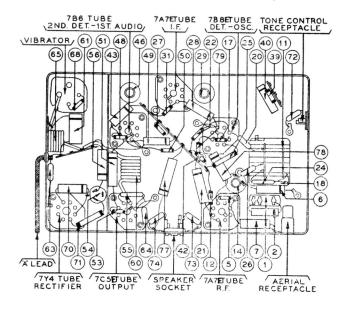
# PHILCO AUTO RADIO

## PHILCO MODEL 805



No.	Description	Part No.	No
1	Antenna Choke	65-0168	48
2	Condenser(.01 Mfd.)	61-0114	
3	Aerial CompensatorPar	t of (10)	49
4	Antenna Transformer	65-0323	50
5	Resistor (1,000 ohms)	33-210336	51
4 5 6	Condenser (.05 Mfd.)	61-0101	52
7	Condenser (.05 Mfd.)	61-0111	53
8	Tuning Condenser	63-0047	52
9	Antenna Padder (on Tun.Co	nd.)	
10	Antenna Padder Assembly	77-0512	55
11	Wafer Switch	77-0506	56
12	Resistor (10,000 ohms)	33-310344	5
13	I.F. Wave Trap Padder		58
14	R.F. Transformer Resistor (1,000,000 ohms) Condenser (25 Mmfd.)	65-0321	
15	Resistor (1,000,000 ohms)	33-510344	
16	Condenser (25 Mmfd.)	30-1067	
17	Resistor (100,000 ohms)	33-410344	
18	Silver Mica Condenser	/2	59
3.0	(280 Mmfd.) Oscillator Padder (on Tun	61-0043	60
19	Oscillator Padder (on Tun	.cond.)	6.
20	Condenser (250 Mmfd.) Condenser (.05 Mfd.)	41 0101	6.
21	Resistor (68,000 ohms)	22 2602//	64
23	Padder (Pri.1st I.F.Trans	77-300344	6
24	Silver Wice Condenser	• /	6
44	Silver Mica Condenser (485 Mmfd.)	61-01//	6
25	Resistor (22 000 ohms)	33-322444	69
26	Resistor (22,000 ohms) Condenser (15 Mmfd.)	61-0039	70
27	Resistor (1.000.000 ohms)	33-510344	7
28	Resistor (1,000,000 ohms) Condenser (.05 Mfd.)	61-0101	72
29	First I.F. Transformer	65-0319	7
30	Padder (Sec.1st I.F.Trans	.)	7.
31	Resistor (680 ohms)		7
32	Oscillator Transformer		76
	(550 to 1065 KC)	65-0173	7'
33	Oscillator Transformer		78
	(600 to 1165 KC)	65-0172	79
34	Oscillator Transformer		
	(660 to 1240 KC)	65-0171	
35	Oscillator Transformer	( = 0100	
26	(750 to 1410 KC)	65-0170	
36	Oscillator Transformer	65 0160	
37	(855 to 1580 KC) Low Frequency Padder	63-0048	
38	Manual Oscillator Trans-	0)-0040	
20	former	65-0345	
39	Resistor (15,000 ohms)	33-315344	
40	Condenser (.01 Mfd.)	61-0114	
41	Volume Control (350,000		
	ohms)	65-0032-1	
42	Resistor (4.700 ohms)	33-247344	
43	Resistor (4,700 ohms) Condenser (6,000 Mmfd.)	61-0103	
44	Resistor (27.000 ohms)	33-327344	
45	Resistor (27,000 ohms) Padder (Pri.2nd I.F.Trans	.)	
46	Second I.F. Transformer	65-0320	
47	Padder (Sec.2nd I.F.Trans	.)	
	The second secon		

it -	805	
No.	Description	Part No.
No. 48 450512334 45066134566670172237457677879	Description  Resistor (15,000,000 comms)(3,000 Mmfd.). Resistor (220,000 comms). Condenser (300 omfd.). Resistor (220,000 comms). Tone Control Switch. Resistor (470,000 comms). Filter Condenser (10-15-20 Mfd.). Resistor (220 comms). Condenser (200 comms). Condenser (200 for 73-0045-2 Speaker) (For 73-0045-3 Speaker) (For 73-0045-3 Speaker) (For 73-0047-3 Speake	33-61534461-010933-42234461-010085-011133-44734461-008933-12243665-031791-008691-012691-
	Control Mounting Bracket	7-1301FC46 57-1429 .W1794FA24 85-0113 55-0935 55-0936 57-1425



No.	Description	Part No.	No.	Description	Part No.
	Station Indicator Shaft Pointer	.57-1403FA3 318-1991 77-0514 Kit.45-1438		Aerial Rod (483m)	57-1249 57-1247 95-0124 Part Nos.

#### MODEL 805 - ADJUSTMENTS

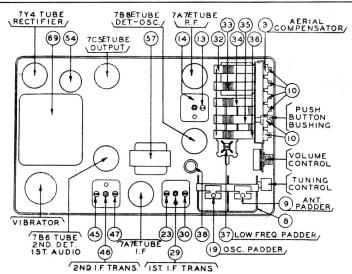
All padding adjustments are carefully made at the factory and ordinarily no readjustments are necessary. However, when readjustments are required, the procedure given below must be followed in detail.

EQUIPMENT — Fully charged heavy duty storage battery or 6 volt power pack, 177 Philco Signal generator, 028 Philco Vacuum tube voltmeter and set tester or audio output meter, 45-2610 Padding screw driver.

GENERAL — VACUUM TUBE VOLTMETER. The model 028 Vacuum tube voltmeter is an extremely sensitive and accurate test instrument and is recommended for use when aligning and adjusting auto radios. Connect the negative (—) terminal of the Vacuum Tube Voltmeter to the high side (ungrounded side) of the volume control. Connect the positive (+) terminal to the radio housing.

AUDIO OUTPUT METER. If an audio output meter is used, connect the leads across the voice coil of the speaker. Use the 0-30 volt scale.

With the Radio and signal generator set up for operation at the prescribed frequency, turn the Radio volume control on full



and set the signal generator attenuator so that a half scale reading is obtained on the meter. The signal in the speaker should be audible but not loud.

The shielding on the generator output lead must be connected to the Radio housing.

	SIGNAL GENERATOR				ADJUST
OPERATION	FREQUENCY	CONNECTION	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	PADDER
ı	PUSH IN THE RIGHT KNOB ON THE CONTROL UNTIL "D" APPEARS IN THE STATION INDICATOR WINDOW AND STATIONS CAN BE TUNED IN BY MANUAL TUNING.  ADJUST THE AERIAL COMPENSATOR ③ TWO TURNS FROM TIGHT.				
2	460 K.C.	To Aerial Receptacle on Radio	.I Mfd.	Note 2	474539 <b>23</b> 474539 <b>23</b>
3	455 K.C.	To Aerial Receptacle on Radio	.I Mfd.	Note 2	13 Min.
4	1580 K.C.	To Aerial Receptacle on Radio	See Note I	Note 2	19
5	1400 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	9 Note 4
6	580 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Condenser at 580 K.C.	Note 3
7	1580 K.C.	To Aerial Receptacle on Radio	See Note I	Note 2	(19)
8	1400 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	9 Note 4
9	580 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Condenser at 580 K.C.	37
10	1200 to 1400 K.C.	Note 5	Note 5	Note 5	Note 3

Make all adjustments for maximum reading on the output meter.

NOTE I — Connect the aerial lead, Part No. 41-3191, to the aerial receptacle in the radio. Connect a 10 Mmfd. Condenser in series between the signal generator and the aerial lead.

NOTE 2 — Turn the condenser rotor plates completely out of mesh as far as they will go.

NOTE 3 — Rock the tuning condenser while adjusting the low frequency padder. Tune the condenser to the signal and adjust the padder for maximum output. Rotate the tuning condenser back and forth slightly for maximum output. Then readjust the padder

### INSTRUCTIONS FOR SETTING UP THE AUTOMATIC PUSH BUTTON TUNING

Turn on the radio and allow it to operate for twenty minutes or longer if possible. During this time, proceed as follows:

 Remove the plate on the end of the radio which covers the adjusting screws. This is held by two screws.

2. Select five popular local stations whose frequencies come within the ranges of the five automatic tuning circuits, and list them on the Owner's Reference Label. List the highest frequency station as I, and so on down to the lowest trequency station, which should be 5. The range of each automatic tuning circuit is given below:

850 KC to 750 KC to 660 KC to 600 KC to 550 KC to 1580 KC 1410 KC 1240 KC 1165 KC 1065 KC 1 2 3 4 5

3. Push in the right knob until "D" appears in the station indicator window. This adjusts the Radio so that it can be tuned with the tuning control knob in the conventional manner.

4. Tune in with the dial tuning control knob, the station having the highest frequency, and note the program. Now push in the

for maximum output. Repeat this procedure until no further improvement is noticed.

NOTE 4 — When the aerial stage adjustment is made with the Radio installed in the car, the Radio aerial lead must be connected to the car aerial in the usual manner. Connect the signal generator output lead to a wire placed near the car aerial but not connected to it.

NOTE 5—When installing the radio in the car, follow the installation instructions carefully. Tune in a weak broadcast signal between 1200 and 1400 Kilocycles on the control scale. Remove the plug button on the end of the radio and adjust the aerial compensator ③ (See Figure 3) for maximum signal.

right hand knob until No. I appears in the station indicator window.

With a small screw driver, turn the bottom adjusting screw (number one) in the left column to the right or left until the same station is tuned in. Then adjust the corresponding screw in the right column, turning right or left until maximum volume is obtained. If in doubt as to the station, push the right hand knob until "D" appears and recheck. The adjustment on strong signals can be made best inside a shielded area such as in a reinforced steel building, or under a viaduct.

Continue the above procedure for the stations selected for Nos. 2, 3, 4 and 5 position in the given order, working from left to right, and adjusting each pair of corresponding adjusting screws from bottom to top until all five stations are set up. It is advisable to repeat the entire adjustment procedure to be sure the settings are correct.

The automatic tuning adjustments may be made before installing the radio in the car, but FINAL adjustments must be made with the radio installed and operating on the aerial in the car.

## PHILCO PRODUCTS LIMITED