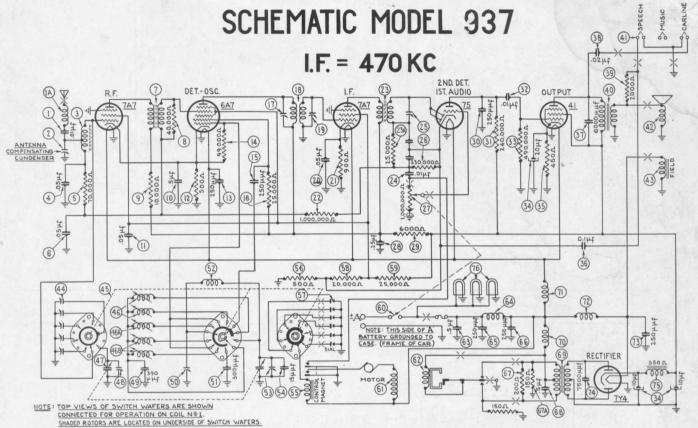
PHILCO TRANSITONE SERVICE BROADCAST

JANUARY 3, 1939

PHILCO MODEL 937

File in Philco Section of Auto Radio Manual



No.	Description	Part No.
(1)	Condenser (.01 mfd.)	30-4479
(ī)a	Antenna Choke	77-0161
(2)	Antenna Compensating	
	Condenser	Part of (4)
(3)	Condenser Antenna Transformer	65-0085
(4)	Condenser (.05 mfd.)	30-4444
(5)	Resistor (70,000 ohms)	33-370257
(6)	Condenser (.05 mfd.)	30-4444
(7)	R. F. Transformer	65-0009
(8)	Resistor (40,000 ohms)	33-339137
(9)	Resistor (10,000 ohms)	33-310337
(10)	Condenser (.5 mfd.)	30-4565
(11)	Condenser (.5 mfd.) Condenser (.05 mfd.)	30-4569
(12)	Resistor (500 ohms)	
(13)	Condenser (250 mmfd.	61-0033
(14)	Resistor (99,000 ohms	
(15)	Condenser (250 mmfd.	
(16)	Resistor (25,000 ohms	33-325337
(17)	Padder (Pri. 1st I. F.	
(18)	First I. F. Transforme	
(19)	Padder (Sec. 1st I. F.	
20	Condenser (.05 mfd.)	30-4444
(21)	Resistor (900 ohms) .	33-190438
(22)	Resistor	
	(1,000,000 ohms)	33-510257
23	Second I. F. Transform	ner65-0045
23a	Resistor (25,000 ohms)	33-325337
(24)	Condenser (.01 mfd.)	
23	Padder (Sec. 2nd I. F.	Trans.)
26)	Resistor (330,000 ohm	
27	Vol. Control (1,000,00	
	and On-Off Switch	33-5268
28	Condenser (.25 mfd.)	30-4448
29	Resistor (6,000 ohms)	
30	Condenser (250 mmfd.)30-1032
(31)	Resistor (240,000 ohm	
32	Condenser (.01 mfd.)	30-4501
(3)	Resistor (490,000 ohm	s) 33-449337
30	Filter Condenser	
0	(10-10-20 mfd.)	61-0028
35	Resistor (450 ohms)	
36	Condenser (.1 mfd.) .	30-4499
37	Condenser (6,000 mmf	d.)30-4024
38	Condenser (.02 mfd.) Resistor (2,000 ohms)	30-4495
69	Resistor (2,000 onms)	33-220447

MODEL 937

KSIDE O	F SWITCH WAFERS.	Figur
PAR	RTS LIST	
		Don't No.
No.	Description Output Transformer	Part No.
40		
41)	Reception and Push Button Control	77 0170
42	Cone Kit	
43	Field CoilNot I	Poplogophlo
(44)	Antenna Padder Assembly	
45	Wafer Switch	77.0190
46	Osaillator Transformer	0100
40	Oscillator Transformer (High Freq.)	65 0000
(6)a	Oscillator Transformer	05-0000
agra	(Med. Freq.)	65,0090
46b	Oscillator Transformer	05-0055
Gan	(Low Freq.)	65-0090
(17)	Tuning Condenser	63-0016
48	First Padder (on Tun. Con	d)
49	Silver Cap Condenser	u.,
40	(390 mmfd)	61-0031
(50)	Low Frequency Padder	31-6230
(51)	Silver Can Condenser	
0	Silver Cap Condenser (330 mmfd.)	61-0003
(52)	Oscillator Transformer	65-0052
(53)	Second Padder (on Tun. Co	and.)
(54)	Condenser (15 mmfd.)	
(55)	Motor and Relay Assembly	
(58)	Resistor (500 ohms)	
(57)	Push Button and	
	Reception Control Assembly	v 77-0179
(58)	Resistor (20,000 ohms)	33-320337
(59)	Resistor (25,000 ohms):	33-325437
60	On-Off Switch and Volume	
71111	Control (1,000,000 ohms) Motor	33-5268
61)	Motor	. 83-0001
62	Vibrator	41-3398
63	Condenser (.5 mfd.)	30-4474
64)	"A" Choke	65-0057
65	Condenser (250 mmfd.) .	61-0033
66	Condenser (250 mmfd.) . Resistor (200 ohms)	61-0033
67	Resistor (200 ohms)	33-120347
67a	Resistor (150 ohms) Condenser (.5 mfd.)	33-115347
68	Condenser (.5 mfd.)	30-4565
69	Power Transformer Vibrator Choke	65-0046
(70)	Vibrator Choke	32-2483
(71)	Filament Choke	65-0057
72	Choke	32-1374
73	Condenser (250 mmfd.) .	61-0033

KE I			
A LEAD, VIBRATOR O 41 TUBE O 74	TUBE 7A 7 TUBE	(50) L.F. PADDER (52)	
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3			TUNING
30	1 1 A		CONTROL BUSHING,
	100 P		
3	13-3-50	Hommond	
	1 2 3 4 1	Almos minimo-A-	
75 TUBE (3) (8) (0) (1) (5) (9) (5) (6)	97 (5) (3)	(48) ANT. PADDER, AN	TENNA
2 ^{NO} DET. 7A7 TUBE (1) (B) (O) (G)	6 A 7 TUBE 5 47		PENSATOR IDENSER
	FIGURE 2		
No Description Pa	rt No No	Description	Darf No

	Figu	RE 2		
10.	Description Condenser (7,500 mmfd.)	No.	Description Bracket (Automatic Control Mtg.) Distributor Resistor Interference Condenser Dial Tuning and Volume Kno	33-1196 30-4007 55-0304

MODEL 937 — ADJUSTMENTS

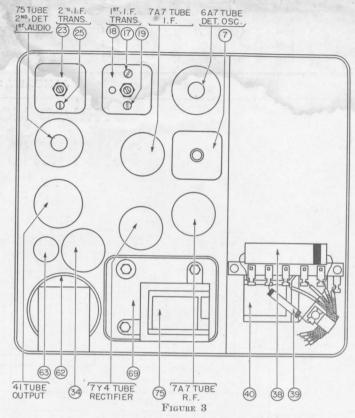
All padding adjustments are carefully made at the factory and ordinarily no readjustments are necessary. However, when readjustments are required, the procedure given below must be followed in detail.

Equipment — Fully charged heavy duty storage battery or 6 volt power pack, 077 or 177 Philos Set Tester, 27-7159 Padding screw driver.

General — The output meter must be connected by means of an adapter to the plate of the type 41 output tube and to the Radio chassis.

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 output 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.



OPERATION	SIGNAL GENERATOR				ADJUST
	FREQUENCY	CONNECTION	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	PADDER
1	PRESS	THE RETURN TO DIAL BUTTON ADJUST THE ANTENNA C	UNTIL STATIONS CAN BE TU OMPENSATOR ② TWO TUR		
2	470 K.C.	To Grid of 6A7 Tube	.I Mfd.	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	25 19 17
3	1580 K.C.	To Antenna Receptacle on Radio	See Note I	Note 2	53
4	1400 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	48 Note 4
5	580 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 580 K.C.	50 Note 3
6	1580 K.C.	To Antenna Receptacle on Radio	See Note I	Note 2	(53)
7	1400 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	48 Note 4
8	1200 to 1400 K.C.	Note 5	Note 5	Note 5	2

Make all adjustments for maximum reading on the output meter.

- NOTE I Connect the antenna lead, Part No. 41-3191, to the antenna receptacle in the radio. Connect a 50 Mmfd. Condenser in series between the signal generator and the antenna 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 for maximum output. Repeat this procedure until no further improvement is noticed.
- NOTE 4 When the antenna stage adjustment is made with the Radio installed in the car, the Radio antenna lead must be connected to the car antenna in the usual manner. Connect the signal generator output lead to a wire placed near the car antenna 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 antenna compensator ② (See Figure 2) for maximum signal.

