## SERVICE BROADCAST

JANUARY 5, 1939

File in Philco Section of Auto Radio Manual

## PHILCO MODEL 936

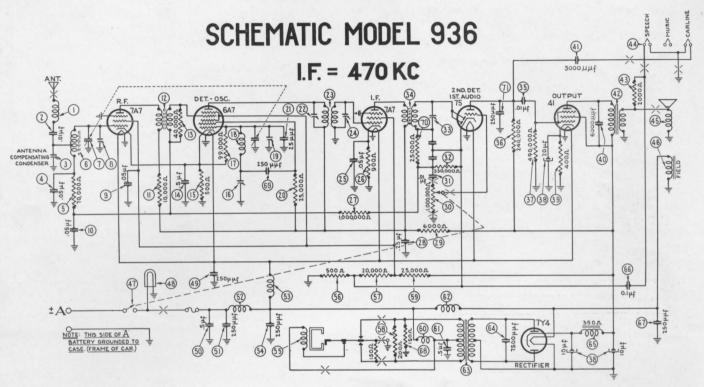
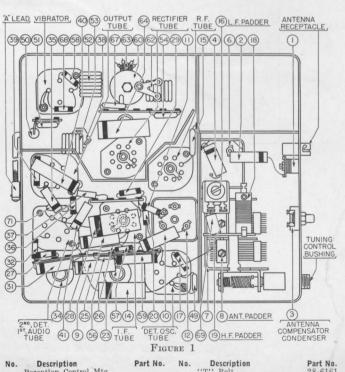


FIGURE 2

## MODEL 936 PARTS LIST

No		Part No.
(1	Antenna Choke	32-1956
(2	Condenser (.01 mfd.)	30-4479
(3	) Antenna Compensator	31-6248
(4	Condenser (.05 mfd.)	30-4444
(	Antenna Compensator . Condenser (.05 mfd.) Resistor (70,000 ohms)	33-370257
(6	) Antenna Transformer .	68-0085
(7	Tuning Condenser	63-0016
(8	First Padder (on Tun. C	ond.)
(9		20 4444
(1)	Condenser (.05 mid.)	99 910997
(1	Resistor (10,000 ohms)	65-0009
(1)		33-340937
(1	Condenser (.5 mfd.)	30-4565
(1)	Resistor (500 ohms) .	33-150438
(1)	Low Frequency Padder	31-6230
(I		33-399337
	Oscillator Transformer	65-0052
	Second Padder (on Tun.	Cond.)
6	Decistor (95 000 ohms)	33-325337
(2	Condenser (25 mmfd.) Padder (Pri. 1st I. F. T First I. F. Transformer	30-1108
6	Padder (Pri. 1st I. F. T	rans.)
6	First I. F. Transformer	65-0044
(2		
	Condenser (.05 mfd.) Resistor (900 ohms)	30-4444
	Resistor (900 ohms) .	33-190438
(2	A Register (1.000.000 onms	33-510257
(2)	© Condenser (.25 mfd.) © Resistor (6,000 ohms)	22 000227
2	9 Resistor (6,000 onms) 9 Vol. Control (1,000,00	0 ohma)
6	Vol. Control (1,000,00	33-5968
	and On-Off Switch Condenser (.01 mfd.)	61-0014
(3	Resistor (330,000 ohms	33-4333337
	Padder (Sec. 2nd I. F.	Trans.)
	Second I F Transform	er 65-0045
6	& Condenser (01 mfd.)	30-4501
6	Resistor (240,000 onms	33-424337
6	Resistor (490,000 ohms	33-449337
6	Filter Condenser	
	(10-10-20 mfd.)	61-0028

A	RTS LIST	
No.	Description Resistor (400 ohms)	Part No.
(39)	Resistor (400 ohms)	33-140438
(40)	Condenser (6,000 ohms) .	30-4024
(41)	Condenser (3,000 mmfd.)	30-4469
(42)	Output Transformer	65-0048
(43)	Resistor (2.000 ohms)	33-220447
(14)	Reception Control Cone and Voice Coil Kit .	.412-1004
(15)	Cone and Voice Coil Kit .	91-0028
(16)	Field CoilNot	Replaceable
(17)	Field CoilNot on-Off Switch and Vol. Co	ntrol
	(1.000.000 ohms)	33-5268
48	Pilot Lamp	34-2040
49	Pilot Lamp	61-0033
(50)	Condenser (5 mfd.)	30-4474
(51)	Condenser (250 mmfd.)	61-0033
(52)	"A" Choke	65-0057
(53)	Filament Choke	65-0057
(54)	Condenser (250 mmfd.)	61-0033
(55)	Vibrator	41-3398
(56)	Resistor (500 ohms)	33-150438
(57)	Resistor (20,000 ohms) Resistor (200 ohms) Resistor (25,000 ohms)	33-320337
(58)	Resistor (200 ohms)	33-120347
(59)	Resistor (25,000 ohms)	33-325437
60	Vibrator Choke Condenser (.5 mfd.)	32-2483
61)	Condenser (.5 mld.)	30-4303
62)	Choke	32-13/4
63	Power Transformer	00-0040
64)	Condenser (7,500 mmfd.)	20 7050
65	Filter Choke	20 1400
66	Condenser (.01 mid.)	61 0022
67)	Condenser (250 mmfd.) Resistor (150 ohms)	99 115997
68	Resistor (150 onns)	61-0034
69	Condenser (250 mmfd.) Resistor (25,000 ohms)	22-205344
70	Condenser (250 mmfd.)	30-1039
71)	Control Unit	85-0058
	Died Control Chit	55-0304
	Dial	27-4725
	Distributor Resistor	33-1196
	Interference Condenser	30-4007
	Control Mtg. Bracket	28-5790
	Control Meg. Blacket	



Vo.	Description	Part No.	No.	Descr
	Reception Control Mtg.			"T" Bo
	Bracket	28-5852		Nut
	Flexible Shaft	57-0631		

## MODEL 936 — ADJUSTMENTS

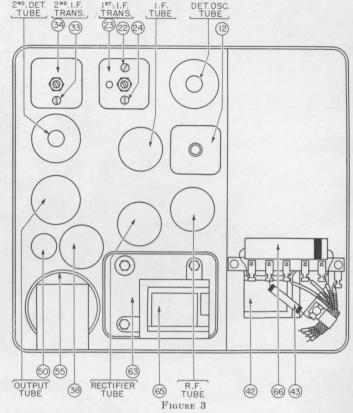
All padding adjustments are carefully made at the factory and ordinarily no readjustments are necessary. However, when readjustments are required, the procedure given below must be followed in detail.

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				
	FREQUENCY	CONNECTION	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	ADJUST PADDER
1	,	ADJUST THE ANTENNA COMPENSA	ATOR 3 TWO TURNS FROM	и тібнт	
2	470 K.C.	To Grid of 6A7 Tube	.I Mfd.	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	33 24 22
3	1580 K.C.	To Antenna Receptacle on Radio	See Note I	Note 2	19
4	1400 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	8 Note 4
5	580 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 580 K.C.	16 Note 3
6	1580 K.C.	To Antenna Receptacle on Radio	See Note I	Note 2	19
7	1400 K.C.	To Antenna Receptacle on Radio	See Note I	Set Tuning Condenser at 1400 K.C.	8 Note 4
8	1200 to 1400 K.C.	Note 5	Note 5	Note 5	3

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 ③ (See Figure 2) for maximum signal.

PHILCO TRANSITONE PHILADELPHIA, PA.