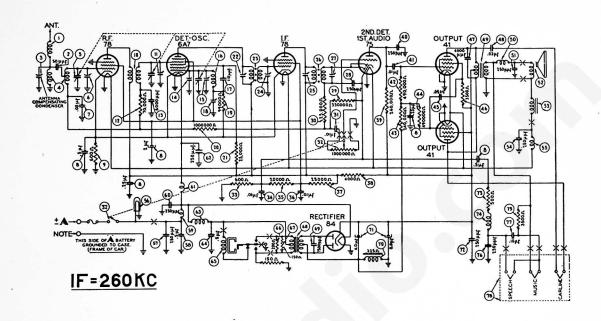
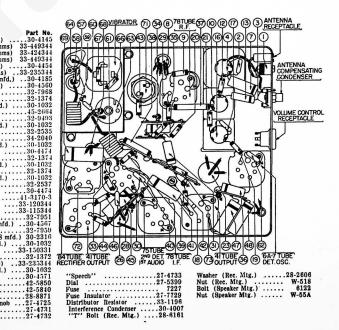
PHILCO AUTO RADIO Model 928K



MODEL 928-K PARTS LIST

			1	
No.	Description Antenna Choke	Part No.	No.	Description
1	Antenna Choke	.32-1956	•	Condenser (.01 mfd.)
<u> </u>	Condenser (50 mmfd.)	.30-1101		
~	Antenna Compensating		(3)	Resistor (240,000 ohm
_	Condenser	.31-6248	⊕	Resistor (490,000 ohm
•	Antenna Transformer	.32-2945	63	Condenser (.05 mfd.)
0	Tuning Condenser	.31-2242	40	Resistor (3.500 ohms)
ŏ	First Padder (on Tun. Cond.	1	₩	Condenser (4.000 mmf
8	Condenser (.05 mfd.)	30-4444	8	Condenser (4,000 mmfe Condenser (.03 mfd.)
Ö	Condenses		8	Output Transformer
•	(.252555-2 mfd.)	30-4568	8	Choke
•	Resister (600 chms) 3	3-160331	8	Condenser (250 mmfd.)
<u>w</u>	Resistor (600 onns)	22 2016	8	Cone & Voice Coil
99	R. F. Transformer	.02-2040	8	Etald Coll
w w	Second Padder (on Tun. Cont	2 2 0 2 4 4	~	Condenser (250 mmfd.)
₩,	Resistor (70,000 onms) .3	3-310344	8	Choke (250 mmd.)
- ⊚	Condenser (6,000 mmfd.) .	.30-4467	95	Choke
•	Thermal Comp. Condenser .	.32-6232	8	Phot Lamp
€	Third Padder (on Tun. Cond	.)	ಲ	Consenser (250 mmia.)
00	Oscillator Transformer	.32-2947	(34)	Condenser (.a mid.) .
•	Condenser (110 mmfd.)	.30-1031	છ	Condenser (.03 mfd.) Output Transformer Choke Condenser (250 mmfd.) Cone & Volce Coil Field Coil Condenser (250 mmfd.) Choke Pilot Lanu Condenser (250 mmfd.) Condenser (.5 mfd.) "A" Choke Condenser (250 mmfd.)
0	Low Frequency Padder	.31-6230		
- ⊚	Resistor (99,000 ohms) .3	3-399344	(1)	Choke
- 69	Resistor (1,000,000 ohms) 3:	3-516344	€	Condenser (250 mmfd.)
- 600	Resistor (25,000 ohms) .3:	3-325344	(8)	Vibrator Choke
€ 6	Content of the conten)	€	Condenser (250 mmfd.) Vibrator Choke Condenser (.5 mfd.) Vibrator Resistor (200 ohms) Resistor (150 ohms) Power Transformer Condenser (7.500 mmfd.) Filter Choke Filter Choke (250 ohms) Resistor (250 ohms) Choke Resistor (500 ohms) Choke Condenser (250 mmfd.) Choke (150 ohms) Condenser (250 ommfd.) Condenser (250 ommfd.) Condenser (250 mmfd.)
ě,	First I. F. Transformer	.32-3013	63	Vibrator
ಷ	Padder (Sec. 1st I. F. Trans	.)	@	Resistor (200 ohms) .
ă	Padder (Pri. 2nd I. F. Trans	.)	6	Resistor (150 ohms) .
ŏ	Second I. F. Transformer	.32-3014	0	Power Transformer
ĕŏ.	Padder (Sec. 2nd I. F. Trans	.)	(Condenser (7,500 mmfd
ă	Condenser (250 mmfd.)	30-1032	(9)	Filter Choke
A	Resistor (330,000 ohms) 33	3-433344	6	Filter Condenser (4-8 n
- X	Resistor (25,000 ohms) .33	3-325344	ക്	Condenser (250 mmfd.)
ð	Condenser (.01 mfd.)	30-4479	6	Resistor (500 ohms) .
ĕ	Condenser (.01 mfd.) Volume Control (1,000,000 of	hms	ക്ക	Choke
•	& On-Off Switch)	33-5268	š	Resistor (3.500 ohms)
	Resistor (600 ohms)33	-160331	8	Condenser (250 mmfd.)
X	Condenser (.01 mfd.)	30-1179	*	Condenser (.15 mfd.)
X	Resistor (20,000 ohms) .33	320344		Reception Control
8	Condenser (.01 mfd.)	30-4470		Complete Control
X	Resistor (25,000 ohms) .33	205144		Tuning Shaft
2	Perister (4 000 chms) .33	010144		Tuning & Volume Kno
×	Resistor (4,000 ohms)33 Resistor (240,000 ohms) 33	-240444		tion finell Vnob
×	Condenser (250 mmfd.)	-424344		Car Line Knob
	Condenser (250 mmld.)	30-1032		Music



PHILCO AUTO RADIO Model 928K

I. F. TRANSFORMERS AND PADDERS

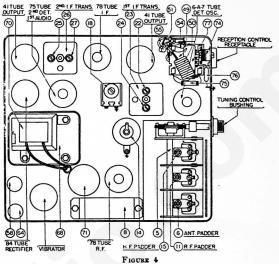
The I. F. transformers are assembled complete with padding condensers.

Both the primary and the secondary padders are placed side by side in the top of the transformer shield can. The adjusting screws are accessible thru the holes in the top of the shield. (See Figure 4).

The coil windings terminate in leads instead of terminals or lugs. The color scheme of the leads is given in Figure 3.



If replacements are ever necessary, replace the entire coil assembly, 32-3013, for the first I. F. stage and 32-3014 for the second I. F. stage. Neither the coil of the padders will be furnished separately. Order only by the above numbers.



MODEL 928-K 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 — Storage Battery (fully charged) or a 6 volt power pack. Signal Generator such as Philco Models 077 or 177. Vacuum Tube Voltmeter and Circuit Tester, Philco Model 027. In addition a padding screw driver, Philco Part No. 45-2610.

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

General — The output meter must be connected by means of an adapter to the plate of the ty 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 signal generator output lead must be connected to the Radio housing.

OPERATION	SIGNAL GENERATOR		DUMMY CAPACITY	SPECIAL INSTRUCTIONS	ADJUST
	FREQUENCY	CONNECTION	DOMM! CAPACITI	31 20122 111311100110110	PADDER
1	260 K. C.	To grid of 6A7 Tube	.1 Mfd. Condonser in Series with Generator Lead	No Antenna Connection	8 9 8 9
2	1550 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note I	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	19 W 6
3	580 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 580 K.C.	® Note 2
4	1550 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note I	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	13
5	1400 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Nute I	Sat Tuning Condenser at 1400 K.C.	10 6 Note 3
6	600 K. C.	Note 4	Note 4	Note 4	Note 4

Mako 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 — 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 re-adjust the padder for maximum output. Repeat this procedure until no further improvement is noticed.

NOTE 3 — 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 4—When installing the Radio in a car, follow the installation instructions carefully. Tune in a weak broadcast signal at approximately 60 on the control scale. With a small screw driver adjust the antenna compensating condenser ③ for the maximum signal.