

## APRIL, 1938

[illegible]

FIGURE 1

No.	Description	Part No.	No.	Description	Part No.
1	Antenna Transformer	32-2988	34	"A" Choke	32-1644
2	Mica Cond. (50 Mmfd.)	30-1101	35	Condenser (.5 Mfd.)	30-4551
3	Tuning Condenser	31-2224	36	Vibrator Choke	32-3003
4	R.F. Transformer	32-2986	37	Condenser (.5 Mfd.)	30-4565
5	Oscillator Transformer	32-2987	38	Vibrator	41-3398
6	Resistor (100,000 ohms)	33-410344	39	Resistor (200 ohms)	33-120344
7	Low Frequency Padder	31-6252	40	Power Transformer	32-7962
8	Condenser (.25 Mfd.)	30-4448	41	Condenser (.0075 Mfd.)	30-4587
9	1st I.F. Transformer	32-2994	42	Mica Cond. (250 Mmfd.)	30-1032
10	2nd I.F. Transformer	32-2995	43	Filter Cond. (4-4 Mfd.)	30-2311
11	Mica Cond. (110 Mmfd.)	30-1031	44	Filter Choke	32-7960
12	Mica Cond. (410 Mmfd.)	30-1089	45	Resistor (62 ohms)	33-062331
13	Volume Cont. & Switch	33-5269	46	Condenser (.05 Mfd.)	30-4569
14	Condenser (.01 Mfd.)	30-4479		Tuning & Volume Knobs	27-4737
15	Res'tr (1,000,000 ohms)	33-510344		Pointer	28-5781
16	Resistor (20,000 ohms)	33-320344		Dial & Bracket Ass'y.	42-5844
17	Res'tr (1,000,000 ohms)	33-510344		Glass	27-9107
18	Resistor (470 ohms)	33-147331		Bezel	28-5764
19	Resistor (6200 ohms)	33-262444		Four Prong Socket	27-6044
20	Resistor (20,000 ohms)	33-320444		Five Prong Socket	27-6035
21	Res'tr (1,000,000 ohms)	33-510344		Six Prong Socket	27-6036
22	Resistor (240,000 ohms)	33-424344		Seven Prong Socket	27-6037
23	Condenser (.01 Mfd.)	30-4145		Octal Socket	27-6086
24	Resistor (510,000 ohms)	33-451344		Fuse	7227
25	Resistor (240,000 ohms)	33-424344		Fuse Insulator	27-7729
26	Condenser (.1 Mfd.)	30-4499		Carriage Bolt	W-1983
27	Condenser (.01 Mfd.)	30-4381		Radio Mounting Bolt	W-1984
28	Output Transformer	32-7961		Radio Mounting Nut	W-55
29	Cone & Voice Coil Ass'y	45-1344		Radio Mounting Nut (Wing Type)	W-1687
30	Field Coil	32-9484		Distributor Resistor	33-1196
31	Pilot Lamp	34-2064		Interference Condenser	30-4007
32	Condenser (.05 Mfd.)	30-4020		Set Mtg. Brack. (Long)	28-5744
33	Filament Choke	32-1644		Set Mtg. Brack. (Short)	28-5853

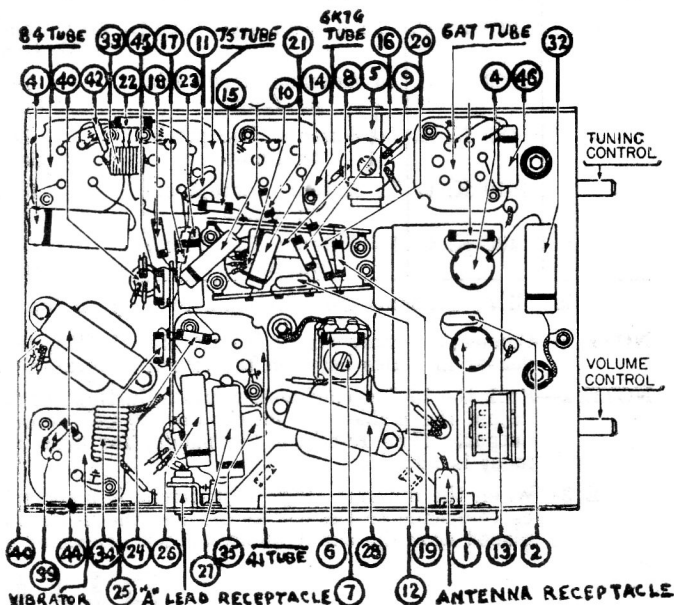


FIGURE 2

### 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.

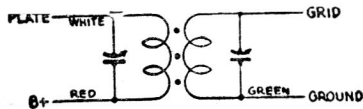


FIGURE 3

If replacements are ever necessary, replace the entire coil assembly, 32-2994 for the first I. F. stage and 32-2995 for the second I. F. stage. Neither the coil nor the padders will be furnished separately. Order only by the above numbers.

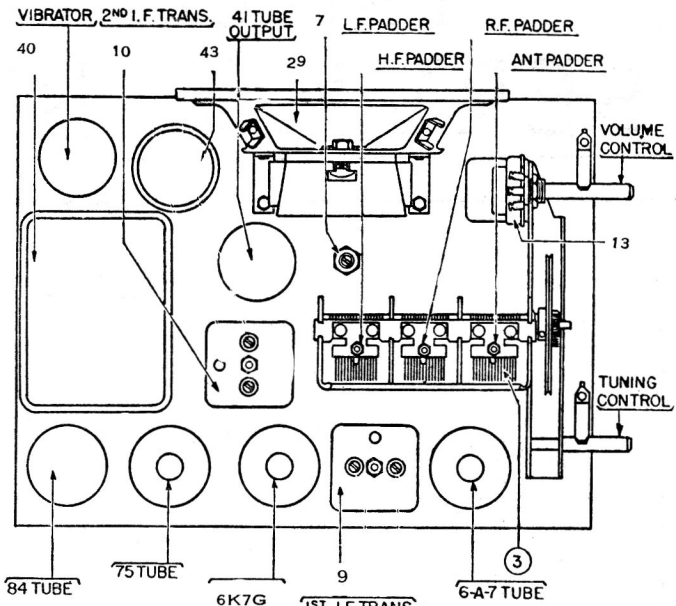


FIGURE 4

### MODEL 629 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, 048A or 099 Philco Set Tester, 3164 Padding wrench, 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 signal generator output lead must be connected to the Radio housing.

Operation	SIGNAL GENERATOR		DUMMY CAPACITY	SPECIAL INSTRUCTIONS	ADJUST PADDER
	FREQUENCY	CONNECTION			
1	260 K. C.	To grid of 6A7 Tube	.1 Mfd. Condenser in Series with Generator Lead	No Antenna Connection	(17) (19) (13) (15) (17)
2	1550 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	(9) (6) (4)
3	580 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 580 K.C.	Note 2 (12)
4	1550 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	(9)
5	1400 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 1400 K.C.	(6) (4) Note 3

Make all adjustments for maximum reading on the output meter.

**NOTE 1**—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.

# PHILCO

REG. TRADE MARK

## TRANSITONE

TORONTO, ONT.