PHILCO TRANSITONE
SERVICE BROADCAST

APRIL, 1938

PHILCO MODEL 729

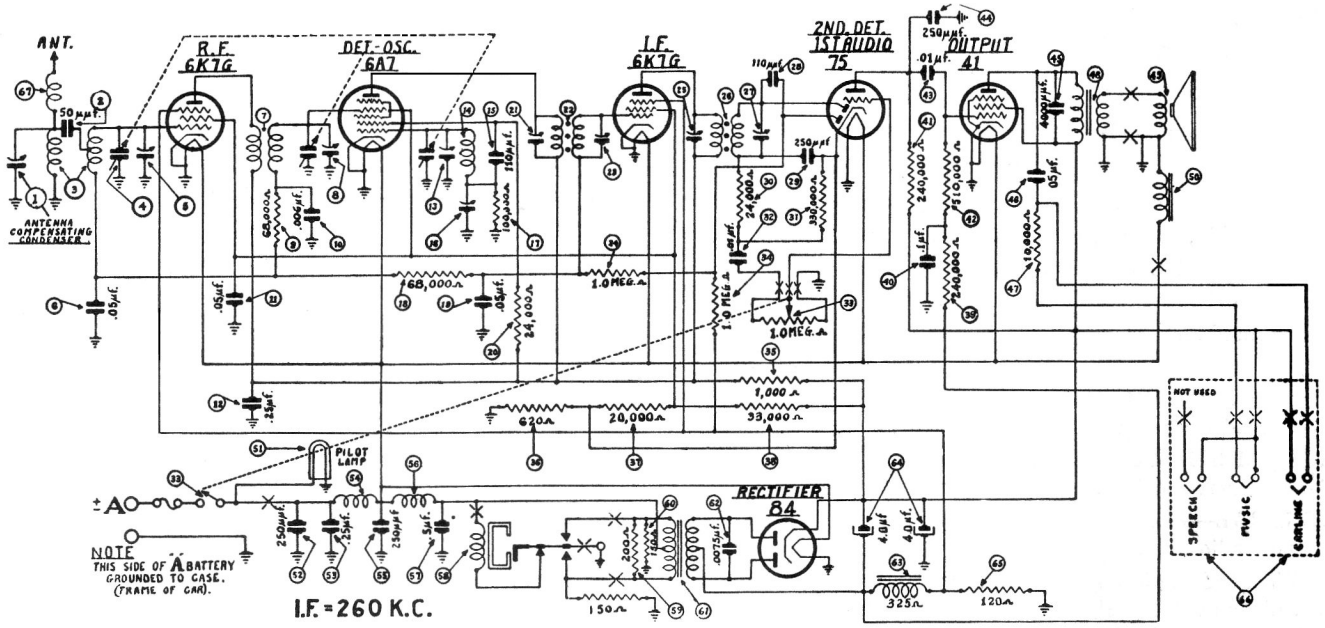

FIGURE 1

MODEL 729 PARTS LIST

No.	Description	Part No.
1	Antenna Comp. Cond.	31-6248
2	Condenser (50 Mmfd.)	30-1101
3	Antenna Transformer	32-2945
4	Tuning Condenser	31-2238
5	Part of (4)	
6	Condenser (.05 Mfd.)	30-4444
7	R.F. Transformer	32-2946
8	Part of (4)	
9	Resistor (68,000 ohms)	33-368344
10	Condenser (.006 Mfd.)	30-4467
11	Condenser (.05 Mfd.)	30-4020
12	Condenser (.25 Mfd.)	30-4448
13	Part of (4)	
14	Oscillator Transformer	32-2947
15	Condenser (110 Mmfd.)	30-1031
16	Low Frequency Padder	31-6230
17	Resist. (100,000 ohms)	33-410344
18	Resist. (68,000 ohms)	33-368344
19	Cond. (.05 Mfd.)	30-4020
20	Resist. (24,000 ohms)	33-324344
21	Padder (1st I.F. Trans. Pri.)	
22	Ist I.F. Transformer	32-3013
23	Padder (1st I.F. Trans. Sec.)	
24	Resistor (1 Megohm)	33-510344
25	Padder (Pri. 2nd I.F. Trans.)	
26	2nd I.F. Transformer	32-3014
27	Padder (2nd I.F. Trans. Sec.)	
28	Condenser (110 Mmfd.)	30-1031
29	Condenser (250 Mmfd.)	30-1032
30	Resistor (24,000 ohms)	33-324344
31	Resistor (330,000 ohms)	33-433344
32	Condenser (.01 Mfd.)	30-4479
33	Volume Control and On-Off Switch	33-5268
34	Resistor (1 Megohm)	33-510344
35	Resistor (1,000 ohms)	33-210344
36	Resistor (620 ohms)	33-162331
37	Resistor (20,000 ohms)	33-320344
38	Resistor (33,000 ohms)	33-333444
39	Resistor (240,000 ohms)	33-424344
40	Condenser (.1 Mfd.)	30-4122
41	Resistor (240,000 ohms)	33-424344
42	Resistor (510,000 ohms)	33-451344
43	Condenser (.01 Mfd.)	30-4145
44	Condenser (250 Mmfd.)	30-1032
45	Condenser (.004 Mfd.)	30-4185
46	Condenser (.05 Mfd.)	30-4454
47	Resistor (10,000 ohms)	33-310344
48	Output Transformer	32-7956
49	Cone & Voice Coil	45-2608
50	Field Coil Assembly	32-9263
51	Pilot Lamp	34-2040
52	Condenser (250 Mmfd.)	30-1032
53	Condenser (.25 Mfd.)	30-4446
54	"A" Choke	32-1374
55	Condenser (250 Mmfd.)	30-1032
56	Vibrator Choke	32-2911
57	Condenser (.5 Mfd.)	30-4474
58	Vibrator	41-3170-3
59	Resistor (200 ohms)	33-120344
60	Resistor (150 ohms)	33-115344
61	Power Transformer	32-7958
62	Condenser (.0075 Mfd.)	30-4567
63	Filter Choke	32-7959
64	Filter Cond. (4-4 Mfd.)	30-2315
65	Resistor (120 ohms)	33-112321
66	Reception Control	42-5850
67	Antenna Choke	32-1956
	Control Head	42-5840
	Tuning Shaft	28-8871
	Tuning & Vol. Knobs	27-4725
	"Car Line" Knob	27-4731
	"Music" Knob	27-4732
	"Speech" Knob	27-4733
	Dial Scale	27-5399
	Fuse	7227
	Fuse Insulator	27-7729
	Distributor Resistor	33-1196
	Interference Condenser	30-4007
	"T" Bolt	28-6161
	Washer Nut	W-2606
	Nut	W-518
	4 Prong Socket	27-6044
	5 Prong Socket	27-6035
	6 Prong Socket	27-6036
	7 Prong Socket	27-6037
	Octal Socket	27-6086
	Volume Control Socket	27-6103
	Reception Cont. Socket	27-6105
	Speaker Assembly	36-1401

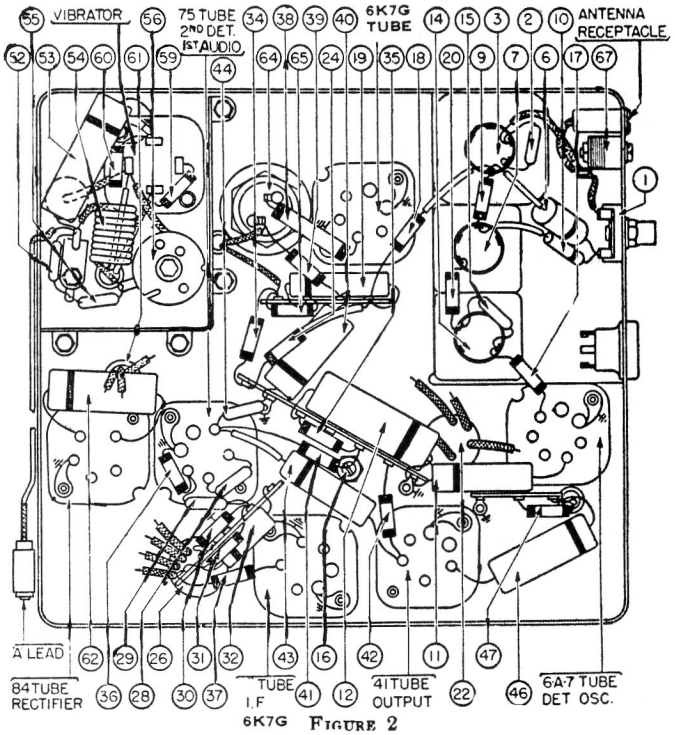

FIGURE 2

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.

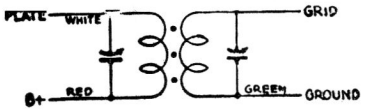

FIGURE 3

If replacements are ever necessary, replace the entire coil assembly, 32-3013, for the first I. F. stage and 32-3014 for the second I. F. stage. Neither the coil nor the padders will be furnished separately. Order only by the above numbers.

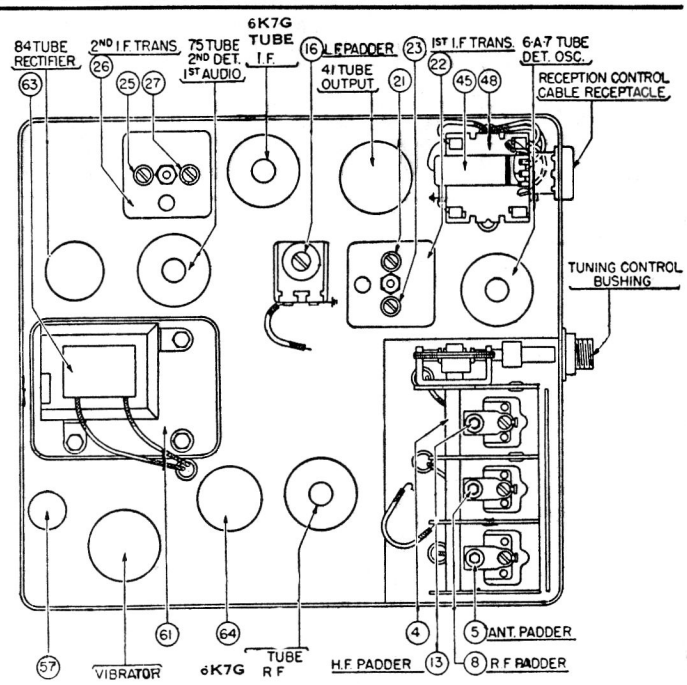

FIGURE 4

MODEL 729 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	(25) (27) (21) (23)
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.	(13) (8) (5)
3	580 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 580 K.C.	(16) **Note 2**
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.	(13)
5	1400 K. C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 1400 K.C.	(8) (5) **Note 3**
6	600 K. C.	Note 4	Note 4	Note 4	(1) Note 4

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.

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 (1) for the maximum signal.

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