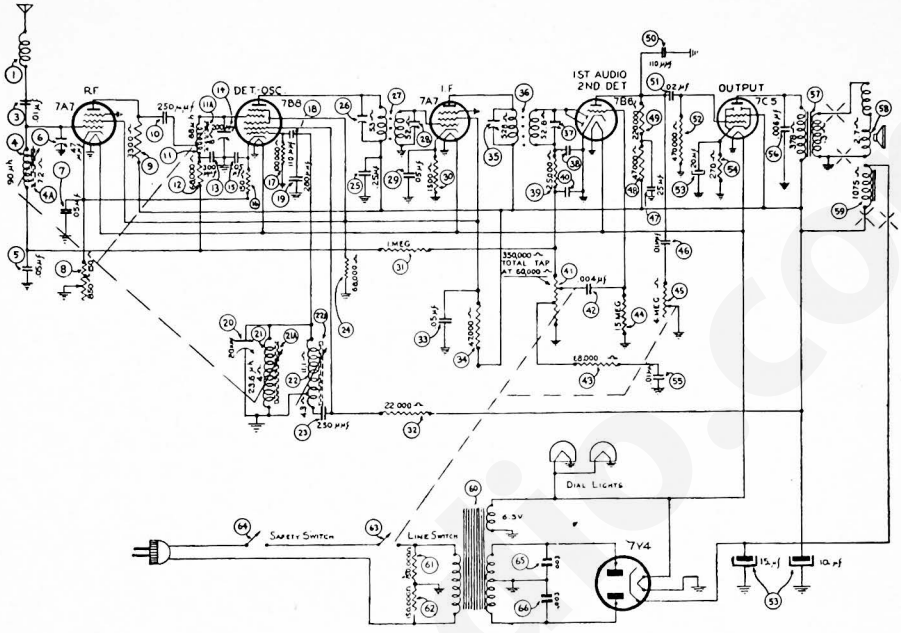
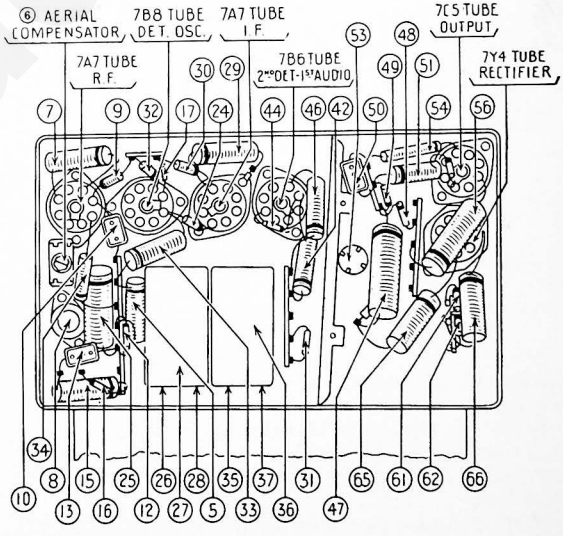
Model A361



PARTS LIST MODEL A361

No.	Description	Part No.
(1)	Antenna Choke	65-0168
(3)	Condenser (.01 mfd.)	61-0114
(4)	Antenna Transformer	65-0443
(4a)	Antenna Transformer Core	57-2334
(5)	Condenser (.05 mfd.)	61-0111
(6)	Antenna Padder	63-0079
(7)	Condenser (.05 mfd.)	61-0111
(8)	Sensitivity Control	67-0025
(9)	Resistor (3300 ohms)	33-233334
(10)	Condenser (250 mmfd.)	60-125157
(11)	R. F. Transformer	65-0444
(11a)	R. F. Transformer Core	57-2334
(12)	Resistor (68,000 ohms)	33-368154
(13)	Condenser (300 mmfd.)	60-130127
(14)	R. F. Padder	63-0080
(15)	Condenser (.05 mfd.)	61-0111
(16)	Resistor (150 ohms)	33-115336
(17)	Resistor (100,000 ohms)	33-410154
(18)	Condenser (110 mmfd.)	60-110157
(19)	Condenser (280 mmfd.)	61-0043
(20)	Oscillator Padder	63-0082
(21)	Oscillator Transformer	65-0463
(21a)	Oscillator Trans. Core	57-2633
(22)	Oscillator Tracking Trans.	65-0441
(22a)	Osc. Tracking Trans. Core	57-2325
(23)	Condenser (250 mmfd.)	60-125157
(24)	Resistor (68,000 ohms)	33-368334
(25)	Condenser (.25 mfd.)	61-0125
(26)	Padder (Pri. 1st I. F. Trans.)	
(27)	First I. F. Transformer	65-0460
(28)	Padder (Sec. 1st I. F. Trans.)	
(29)	Condenser (.05 mfd.)	61-0101
(30)	Resistor (1500 ohms)	33-215334
(31)	Resistor (1 megohm)	33-510154
(32)	Resistor (22,000 ohms)	33-322339
(33)	Condenser (.05 mfd.)	61-0101
(34)	Resistor (47,000 ohms)	33-347434
(35)	Padder (Pri. 2nd I. F. Trans.)	
(36)	Second I. F. Transformer	65-0461
(37)	Padder (Sec. 2nd I. F. Trans.)	
(38)	Condenser	Part of (36)
(39)	Resistor (25,000 ohms)	33-325154
(40)	Condenser	Part of (36)
(41)	Volume Control (350,000 ohms)	67-0060
(42)	Condenser (.004 mfd.)	61-0179
(43)	Resistor (68,000 ohms)	33-368154
(44)	Resistor (15 megohms)	33-615154
(45)	Tone Control (4 megohms)	67-0060
(46)	Condenser (.01 mfd.)	61-0176
(47)	Condenser (.25 mfd.)	61-0125
(48)	Resistor (47,000 ohms)	33-347334
(49)	Resistor (220,000 ohms)	33-422334
(50)	Condenser (110 mmfd.)	60-110157
(51)	Condenser (.02 mfd.)	61-0116
(52)	Resistor (470,000 ohms)	33-447154
(53)	Filter Condenser (10-15-20 mfd.)	61-0089
(54)	Resistor (270 ohms)	33-127436
(55)	Condenser (.01 mfd.)	61-0114
(56)	Condenser (.006 mfd.)	61-0115
(57)	Output Transformer	65-0454
(58)	Cone & Voice Coil	91-0240
(59)	Field Coil	Not Replaceable
(60)	Power Transformer	32-8055
(61)	Resistor (150,000 ohms)	33-415154
(62)	Resistor (150,000 ohms)	33-415154
(63)	On-Off Switch	Part of (41)
(64)	Safety Switch	85-0152
(65)	Condenser (.003)	61-0115
(66)	Condenser (.003)	61-0115
	Speaker	73-0074
	Speaker Cable	41-3610
	Tube Socket	27-6151
	Tuning & Volume Knob	77-1081
	Tone Knob	57-2812FC83
	Knob Backing Ring	57-2813FC83
	Pointer	56-2076
	Pointer, Drive Cord	55-1590
	Pointer Drive Cord Spring	28-8953
	Tuning Unit Drive Cord	55-1589
	Pulley	54-4045
	Pulley Stud (Single)	28-6886FA3
	Pulley Stud (Double)	56-6120FA3
	Safety Switch Cover	56-2532



No.	Description	Part No.
	On-Off Switch Cover	56-2351FA3
	Power Cord	L-3199
	Antenna Lead Assembly	77-1265
	Pilot Lamp	34-2064
	Diffusion Screen	55-1591
	Diffusion Screen Springs	57-2783
	Tuning Unit Complete	77-1247
	Nut (Speaker Mtg.)	W-124FA3
	Fibre Washers (Speaker Mtg.)	27-7467
	Screw (Set Mtg.)	W-1345FA3
	Washer (Set Mtg.)	28-5114FA3
	Nut (Vol. Control Mtg.)	W-684FA3
	Lockwasher (Vol. Control Mtg.)	W-1624FE7

MODEL A361 ADJUSTMENTS

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

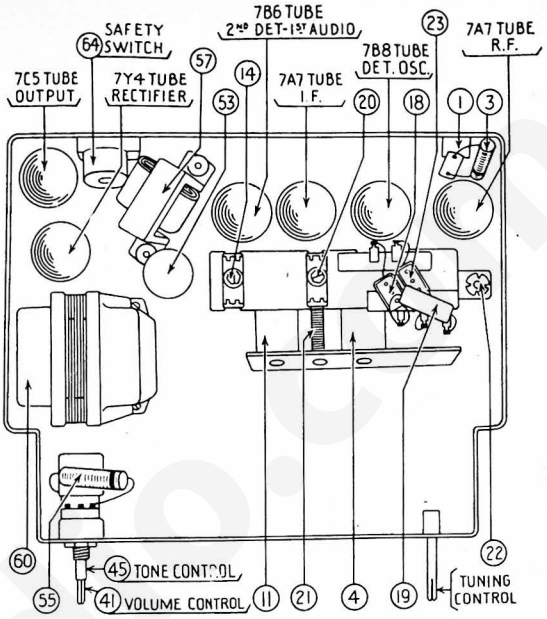
EQUIPMENT — 077 or 070 Philco Signal generator, 027 Philco Vacuum tube voltmeter and set tester or audio output meter, 45-2610 Padding screw driver.

GENERAL — VACUUM TUBE VOLTMETER. The model 027 Vacuum tube voltmeter is an extremely sensitive and accurate test instrument and is recommended for use when aligning and adjusting radios. Connect the negative (—) terminal of the Vacuum Tube Voltmeter to the high side (ungrounded side) of the volume control. Connect the positive (+) terminal to the radio housing. Connect the "AC" cord to a 110 volt AC socket. Press the VTVM button and the 10 volt button. Turn the "Set Zero Ohms — VTVM" control clockwise until a click is heard. Allow the tubes to heat up for a few minutes. Short the 150 meg. VTVM terminals and adjust the "Set Zero Ohms VTVM" control until the meter reads zero on the 0-10 range scale (green scale). The needle will deflect from right to left.

AUDIO OUTPUT METER. If an audio output meter is used, connect the leads across the voice coil of the speaker. Use the 0-10 volt scale.

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 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.



	SIGNAL GENERATOR		RECEIVER		
	FREQUENCY	CONNECTION	DIAL SETTING	DUMMY CAPACITY	ADJUST PADDER
1	265 K.C.	To Ant. Receptacle on Radio	Note 2	.1 Mfd.	㉟ ㊲ ㉖ ㉘ ㉟ ㊲ ㉖ ㉘
2	1600 K.C.	To Ant. Receptacle on Radio	1600 K.C.	See Note 1	⑳
3	1400 K.C.	To Ant. Receptacle on Radio	1400 K.C.	See Note 1	⑥ ⑭
4	590 K.C.	To Ant. Receptacle on Radio	590 K.C.	See Note 1	㉒ Note 3
5	1600 K.C.	To Ant. Receptacle on Radio	1600 K.C.	See Note 1	⑳
6	1400 K.C.	To Ant. Receptacle on Radio	1400 K.C.	See Note 1	⑥

Make all adjustments for maximum reading on the meter.

NOTE 1 — Connect a 15 mmfd. condenser across the output terminals of the signal generator and a 30 mmfd. condenser in series between the signal generator and the output lead.

NOTE 2 — Turn the tuning control clockwise as far as it will go.

NOTE 3 — Rock the tuning control while adjusting the low frequency screw. Tune the control to the signal and adjust the screw for maximum output. Rotate the tuning control back and forth slightly for maximum output. Then readjust the screw for maximum output. Repeat this procedure until no further improvement can be obtained.