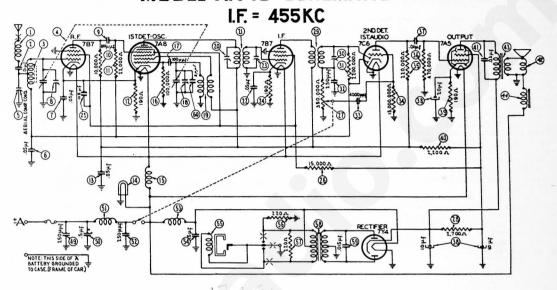
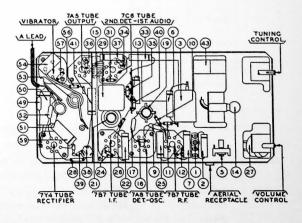
MODEL AR-10 SCHEMATIC



PARTS LIST - AR-10

		LWKIS	LIS
No.	Description untenna Choke	Part	No.
(I) A	ntenna Choke	65-0	102
8 6	ondenser (.01 Mfd.)	61-0	114
Ø Å	ntenna Transformer	65-0	196
Ø T	uning Condenser	63-0	028
(a) A	erial Compensator .	63-0	030
⊚ c	ondenser (.05 Mfd.)	61-0	101
Ø č	ondenser (.05 Mfd.)	61-0	111
® A	ntenna Padder (on T	un. Cond.)	
Ø C	ondenser (100 Mmfd.) .60-110	157
m R	tesistor (10,000 ohms)33-310	154
(i) R	tesistor (22,000 ohms)33-322	154
♠ R	tesistor (190 ohms) .	33-119	336
⊕ C	Condenser (.05 Mfd.)	61-0	111
(1) P	ilot Lamp	69-0	004
⊕ F	ilament Choke	65-0	158
⊕ R	Resistor (100,000 ohn	ns) 33-410	154
@ C	ondenser (100 Mmfd.	. 60-110	157
⊕ 0	Scillator Padder (on	Tun. Cond.)	
⊚ 0	scillator Transformer	65-0	194
60 F	adder (Pri. 1st 1. F.	Trans.)	
60 F	arst I. F. Transform	er65-0	191
E .	ondenser (.05 Mid.)	61-0	111
69 1	adder (Sec. 1st 1. F.	22 110	220
60 1	cesistor (190 onms)	33-119	111
20 0	Postetor (15 000 ohm		224
50 1	Condenser (.05 Mfd.) Resistor (15,000 ohm: Volume Control (350,	000 ohme)	334
W	& On-Off Switch	67-0	020
60 T	Posietor (2 700 ohme)	39-997	131
8 8	& On-Off Switch . Resistor (2,700 ohms) Second I. F. Transfor Padder (Sec. 1st 1. F.	mer 65-0	192
60 F	Padder (Sec. 1st I. F.	Trans)	104
60 R	Resistor (2.200.000 oh	ms) 33-522	154
60 0	ondenser (250 Mmfd	.) .60-125	157
69 C	ondenser (4,000 Mmf	1.)61-0	128
60 I	Padder (Sec. 1st I. F. Resistor (2,200,000 oh: Condenser (250 Mmfd Condenser (4,000 Mmfd Resistor		
	(15,000,000 ohms)	33-615	154
69 F	Resistor (220,000 ohi	ns) 33-422	154
OF I	Resistor (470,000 ohr	ns) 33-447	154
€ C	(15,000,000 ohms) Resistor (220,000 ohms) Resistor (470,000 ohm Condenser (.01 Mfd.) Cilter Condenser	61-0	120
69 F	filter Condenser		
	(10-10-20 Mfd.) . Resistor (190 ohms)	61-0	8900
69 H	tesistor (190 ohms)	33-119	336
60 F	Resistor (2,200 ohms)	33-222	334

_	AR-10			
No.	Desc	cription	Pa	rt No.
0	Condenser	(.03 Mfd.)	61-	0119
6	Replacement	nt Cone	01	0076
	(For 73 Output Tr Field Coll Condenser Condenser Condenser Vibrator C Condenser Vibrator Resistor (Resistor (Power Tra Condenser	-0027-2)		-0077
63	Output Tr	ansformer	65	-0258
69	Field Coll	(Not Replace	able)
0	Condenser	(250 Mmf	d.) .60-12	25157
(9)	Condenser	(.5 Mfd.)	61	-0106
છ	Candanasa	(0=0 Nm/	4 \ 60 19	24//
8	Vibrator C	hoke 1230 Milli	65	-0204
ಷ	Condenser	(.5 Mfd.)	61	-0137
Ø,	Vibrator		83	-0025
9	Resistor (220 ohms)	33-13	22334
9	Resistor (220 ohms)	33-13	22334
8	Condenser	nsformer .	65	-0135
(4)	Condenser	(S Mmfd.)	60-0	08337
	Tuning &	Volume K	nob77	-0765
	Dial		55	-1200
	Dial Cord	(1634")	55	-0588
	(5 % "))	55	-0589
	(13%"			-0653
	Pointer		57	-1940
	Tuning Si	haft	57	-1802
	Window (Crystal	55	-0501
	Speaker I	Init	73	-0027
	Tube Sid	e Cover	57-079	1FC59
	Wiring S	ide Cover	11-030	11,000
	Mounting.	Bracket .	57-081	2FC59
	Cover Scr	rews	W15	S6FA3
	Front Sci	rews	97-01	11FA3
	Fuse Lea	d	7	7-0235
	Fuse	2.1	4	5-2559
	Vibrator	Socket		1-0044 5-0575
	Pilot La	mp Assemb	7	7-0342
	"A" Los	h	7	7-0217
	Interferer	ice Conden	ser3	0-4007
	Distribut	or Resistor	3	3-1196
	Bolt (Ra	dio Mtg.)	W13	18LV2



MODEL AR-10 — 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.

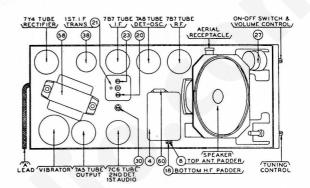
EQUIPMENT — Fully chargd heavy duty storage battery or 6 volt power pack, 077 or 177 Philco Signal generator, 027 Philco Vacuum tube voltmeter and set tester or audio output meter, 45-2610 Padding screw driver.

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 auto 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 0-30 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.



OPERATION	SIGNAL GENERATOR			and the thermal time	ADJUST PADDER
	FREQUENCY	CONNECTION	DUMMY CAPACITY SPECIAL INSTRUCTIONS		
1	,	DJUST THE AERIAL COMPENSA	TOR 6 TWO TURNS FROM	TIGHT	
2	455 K.C.	To Aerial Receptacle on Radio	.I mfd.	Note I	99 29 29 99 29 29
3	1580 K.C.	To Aerial Receptacle on Radio	30 mmfd. See Note 2	Note I	139
4	1400 K.C.	To Aerial Receptacle on Radio	30 mmfd. See Note 2	Set Tuning Condenser at 1400 K.C.	® Note 3
5	1200 to 1400 K.C.	Note 4	Note 4	Note 4	(5)

Make all adjustments for maximum reading on the output meter.

- NOTE I Turn the condenser rotor plates completely out of mesh as far as they will go.
- NOTE 2 Connect the aerial lead, Part No. 95-0185, to the aerial receptacle in the radio. Connect a 30 mmfd.

 Condenser in series between the signal generator and the aerial lead.
- NOTE 3 When the aerial stage adjustment is made with the Radio installed in the car, the Radio aerial lead must be connected to the car aerial in the usual manner. Connect the signal generator output lead to a wire placed near the car aerial but not connected to it.
- NOTE 4 When installing the radio in the car, follow the instructions carefully. Tune in a weak broadcast signal between 1200 and 1400 K.C. on the control scale. Remove the plug button on the side of the radio and adjust the aerial compensator ® for maximum signal.