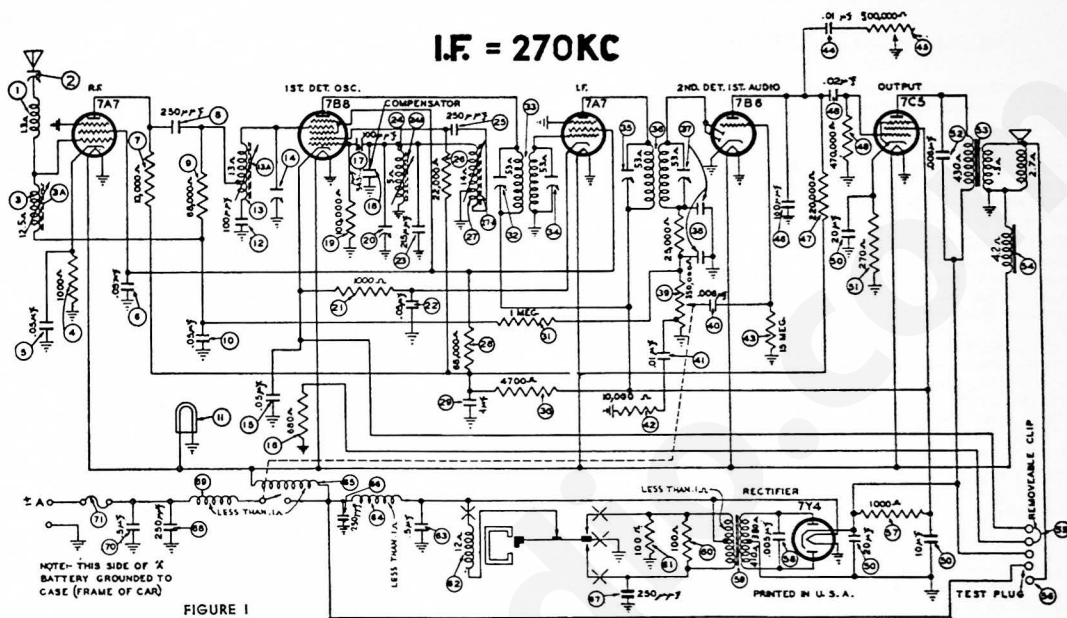


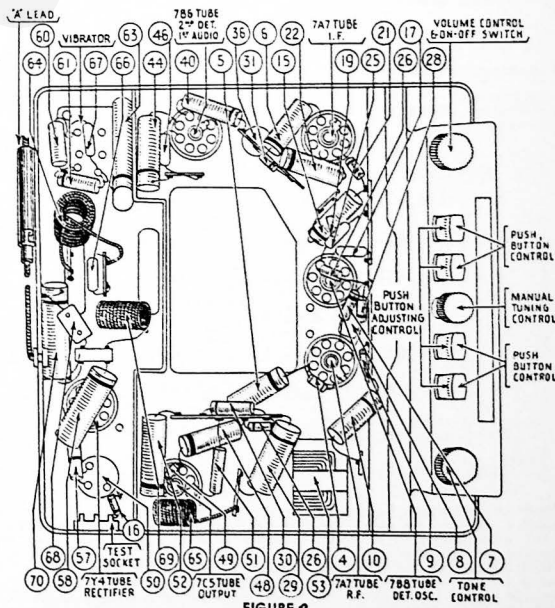
PACKARD MODEL P-1830 STANDARD AUTO RADIO



PARTS LIST — P-1830

No.	Description	Part No.
(1)	Antenna Choke	65-0378
(2)	Aerial Compensator	65-0054
(3)	Antenna Transformer	65-0349
(3a)	Antenna Transformer	
	Adjusting Core	57-1541
(4)	Resistor (1000 ohms)	33-210336
(5)	Condenser (.05 Mfd.)	61-0101
(6)	Condenser (.05 Mfd.)	61-0111
(7)	Resistor (10,000 ohms)	33-310334
(8)	Condenser (250 Mmfd.)	60-125157
(9)	Resistor (68,000 ohms)	33-368154
(10)	Condenser (.05 Mfd.)	61-0101
(11)	Pilot Lamp	34-2064
(12)	Condenser (100 Mmfd.)	60-110157
(13)	R. F. Transformer	65-0359
(13a)	R. F. Transformer	
	Adjusting Core	57-1541
(14)	R. F. Padder	61-0055
(15)	Condenser (.05 Mfd.)	61-0101
(16)	Resistor (680 ohms)	33-188336
(17)	Condenser (100 Mmfd.)	60-110157
(18)	Condenser (54.5 Mmfd.)	61-0149
(19)	Resistor (100,000 ohms)	33-410154
(20)	Oscillator Condenser	63-0052
(21)	Resistor (1000 ohms)	33-210334
(22)	Condenser (.05 Mfd.)	61-0111
(23)	Condenser (.215 Mmfd.)	61-0148
(24)	Oscillator Transformer	65-0367
(24a)	Oscillator Transformer	
	Adjusting Core	57-1542
(25)	Condenser (250 Mmfd.)	60-125157
(26)	Resistor (22,000 ohms)	33-322334
(27)	Oscillator Tracking Transformer	
	Transformer	65-0351
(27a)	Oscillator Tracking Transformer	
	Adjusting Core	57-0996
(28)	Resistor (68,000 ohms)	33-368434
(29)	Condenser (.1 Mfd.)	61-0113
(30)	Resistor (4700 ohms)	33-247434
(31)	Resistor (1,000,000 ohms)	33-510154
(32)	Padder (Pri. 1st I. F. Trans.)	
(33)	First I. F. Transformer	65-0352
(34)	Padder (Sec. 1st I. F. Trans.)	
(35)	Padder (Pri. 2nd I. F. Trans.)	
(36)	Second I. F. Transformer	65-0410
(37)	Padder (Sec. 2nd I. F. Trans.)	
(38)	Resistor (25,000 ohms)	33-325154
(39)	Volume Control (350,000 ohms) & On-Off Switch	67-0047
(40)	Condenser (6000 Mmfd.)	61-0155
(41)	Condenser (.01 Mfd.)	61-0120
(42)	Resistor (10,000 ohms)	33-310154

No.	Description	Part No.
(43)	Resistor	33-615154
(44)	Condenser (.01 Mfd.)	61-0120
(45)	Tone Control (500,000 ohms)	67-0048
(46)	Condenser (100 Mmfd.)	60-110157
(47)	Resistor (220,000 ohms)	33-422334
(48)	Condenser (.02 Mfd.)	61-0108
(49)	Resistor (470,000 ohms)	33-447154
(50)	Filter Condenser (10-20-20 Mfd.)	61-0072
(51)	Resistor (270 ohms)	33-127436
(52)	Condenser (6000 Mmfd.)	61-0155
(53)	Output Transformer	65-0431
(54)	Field Coil	(Not Replaceable)
(55)	Test Link	55-1121
(56)	Test Socket	55-1078
(57)	Resistor (1000 ohms)	33-210434
(58)	Condenser (5000 Mmfd.)	61-0153
(59)	Power Transformer	65-0347
(60)	Resistor (100 ohms)	33-110434
(61)	Resistor (100 ohms)	33-110434
(62)	Vibrator	60-10026
(63)	Condenser (.5 Mfd.)	61-0137
(64)	Vibrator Choke	65-0151
(65)	Filament Choke	32-1604
(66)	Condenser (250 Mmfd.)	60-125157
(67)	Condenser (250 Mmfd.)	60-125157
(68)	Condenser (250 Mmfd.)	60-125157
(69)	"A" Choke	32-1644
(70)	Condenser (.5 Mfd.)	61-0137
(71)	Fuse	45-2559
	Speaker Unit	73-0000
	Replacement Cone	91-0168
	Speaker Cable	85-0161
	Speaker Gasket	55-1037
	Rubber Stop	55-1069
	Nut (Speaker Mtg.)	W124FA3
	Screw (Speaker Mtg.)	W152FC51
	Speaker Cover	77-0882
	Tube Slide Cover	57-1554FC51
	Vibrator Pad	55-1073
	Dial	55-1034
	Manual Knob	55-1297
	Manual Knob Sleeve	57-1623
	Push Button Knob Assy.	77-0613
	Volume & Tone Knob	77-0843
	Tuning Unit complete with Coils	77-0865
	Tuning Unit Only	77-0140
	Bezel	77-0854
	Antenna Connector	57-0591FA3
	Housing	77-0662FC51



No.	Description	Part No.	No.	Description	Part No.
	Vibrator Socket	37-6133		R. F. Coil Spring Mtg. Screw	97-0128
	Tube Socket	27-8151		Osc. Coil Stud	57-1417
	Fuse Lead	77-0837		Core Draw Bar Spring	57-1849
	Interference Condenser	30-4007		Latch Bar Spring	57-1850
	Generator Condenser	30-4475		P. B. Spring	57-1851
	Distributor Resistor	33-1196		Miller Spring	57-1852
	Hook Bolt	57-1560FA3		Pointer Spring	57-1853
	Wing Nut	W895FA3		Pointer & Cam Assy.	77-0850
	R. F. Coil Spring	57-1538			

PACKARD MODEL P-1830 STANDARD AUTO RADIO (CONTINUED)

MODEL P-1830 — 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 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.

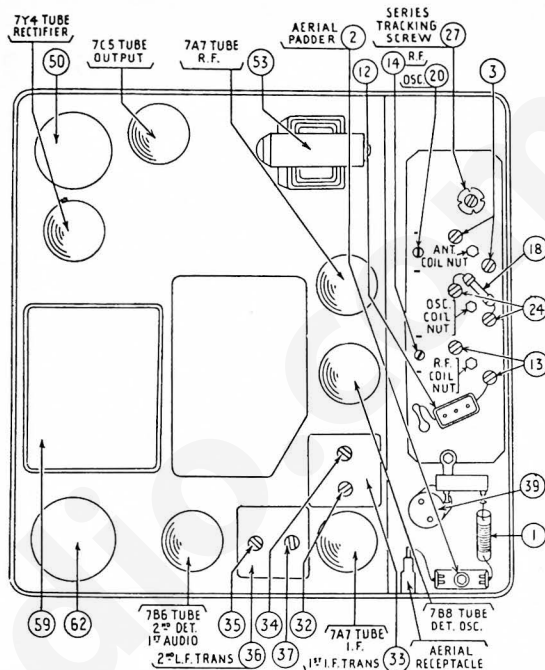


FIGURE 3

OPERATION	SIGNAL GENERATOR		DUMMY CAPACITY	SPECIAL INSTRUCTIONS	ADJUST PADDER
	FREQUENCY	CONNECTION			
1	PUSH IN THE TUNING CONTROL KNOB UNTIL STATIONS CAN BE TUNED IN BY MANUAL TUNING				
2	270 K.C.	To Aerial Receptacle on Radio	See Note 1	Note 2	⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲
3	1600 K.C.	To Aerial Receptacle on Radio	See Note 1	Set Tuning Control at 1600 K.C.	⑳
4	1360 K.C.	To Aerial Receptacle on Radio	See Note 1	Set Tuning Control at 1360 K.C.	㉑ ㉒ Note 4
5	590 K.C.	To Aerial Receptacle on Radio	See Note 1	Set Tuning Control at 590 K.C.	㉓ Note 3
6	1600 K.C.	To Aerial Receptacle on Radio	See Note 1	Set Tuning Control at 1600 K.C.	㉔
7	1360 K.C.	To Aerial Receptacle on Radio	See Note 1	Set Tuning Control at 1360 K.C.	㉕ ㉖ Note 4
8	1200 to 1400 K.C.	Note 5	Note 5	Note 5	㉗ Note 4

Make all adjustments for maximum reading on the meter.

NOTE 1 — Connect the aerial lead, Part No. 95-0111, to the aerial receptacle in the radio. Connect a 40 Mmfd. Condenser in series between the signal generator and the aerial 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 is noticed.

INSTRUCTIONS FOR SETTING UP THE AUTOMATIC TUNING BUTTONS

Turn on the radio and allow it to operate for twenty minutes or longer, if possible.

Press in any automatic button so that it remains engaged. Then tune in the station desired by turning the small wheel in the button. The station can be identified by the pointer, which indicates the frequency of the station in Kilocycles. The automatic buttons may be readjusted to any station within the range of the broadcast band. The automatic buttons may be readjusted to

NOTE 4 — 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 5 — When installing the radio in the car, follow the installation instructions carefully. Tune in a weak broadcast signal between 1200 and 1400 Kilocycles on the control scale. Remove the plug button on the end of the radio and adjust the aerial compensator ㉗ (see Figure 3) for maximum signal.

stations in any sequence desired. However, for convenience in remembering stations, it is recommended that the buttons be set up in the same order that the stations appear across the dial.

CAUTION — All adjustments must be carefully made so that reception can be received best when remote from the broadcasting station. Careless tuning off to one side even though the signal is heard, will result in distorted reception.