MODEL F-1840 FORD CUSTOM AUTO RADIO

MODEL F-1840 - 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.

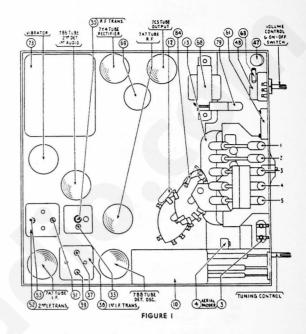
EQUIPMENT — Fully charged heavy duty storage battery or 6 volt power pack, 077 or 177 Philoo Signal generator, 027 Philoo Vacuum tube voltmeter and set tester or audio output meter, 45-2610 Padding screw driver.

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 YTVM 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	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	ADJUST PADDER
	FREQUENCY	CONNECTION	DUMMI CAPACITY	SPECIAL INSTRUCTIONS	
1		TURN THE SELECTOR SWITCH N	(NOB TO "D" SO THAT STATIONS MANUAL TUNING.	CAN BE TUNED IN BY	
2	455 K.C.	To Aerial Receptacle on Radio	.1 Mfd.	Note 2	99999 99999
3	455 K.C.	To Aerial Receptacle on Radio	.1 Mfd.	Note 2	₩ Min.
4	1360 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Control at 1360 K.C.	Note 4
5	590 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Control at 590 K.C.	Note 3
6	1400 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Control at 1400 K.C.	Note 4
7	590 K.C.	To Aerial Receptacle on Radio	See Note I	Set Tuning Control at 590 K.C.	Se Note 3

Make all adjustments for maximum reading on the meter.

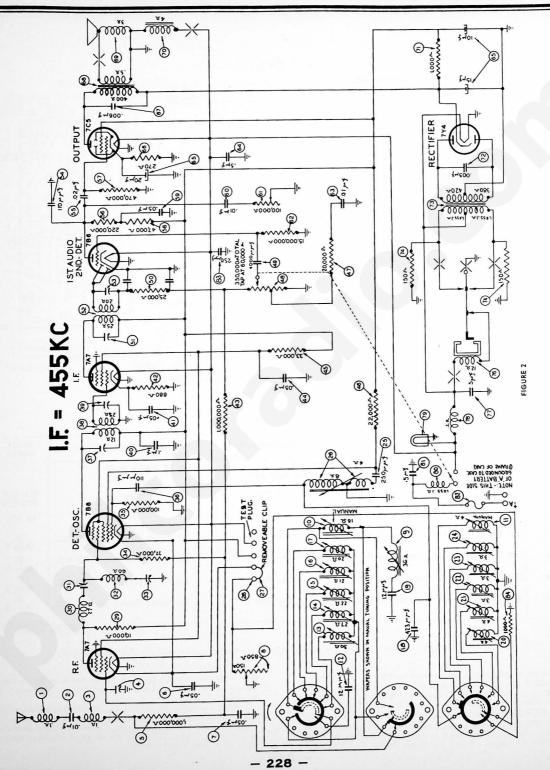
NOTE I — Connect the aerial lead Part No. 95-0111, to the aerial receptacle in the radio. Connect a 20 Mmfd. Condenser in series between the signal generator and the aerial lead.

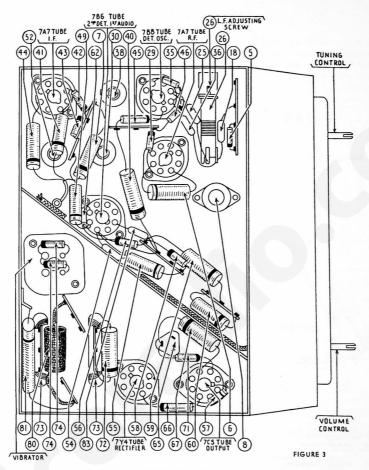
NOTE 2 — Turn the tuning control clockwise as far as it will go.

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 procedre until no further improvement is noticed.

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.





PARTS' LIST - F-1840

No.	Description Part No.	No.	Description Part No.	No.	Description Part No.	No.	Description Part No.
1	Antenna Choke65-0102	(30)	R. F. Transformer (Pri.)65-0415	(2)	Condenser (.01 Mfd.)61-0100		Speaker Cover Screws W2212FA4
2	Condenser (.01 Mfd.)61-0114		PadderPart of so		Tone Control		Bezel
(3)	Antenna Choke30-2063	63	R. F. Transformer (Sec.) Part of 30	-	(100,000 ohms)85-0128		Dial
(I)-	Aerial Compensator63-0063		PadderPart of &	(2)	Resistor		Bezel Spring57-1769FA3
(3)	Resistor		Resistor (22,000 ohms) .33-322334	0	(15,000,000 ohms)33-615154		Bezel Clip
-	(1,000,000 ohms)33-510154	63	Resistor (100,000 ohms) 33-410154	(3)	Condenser (.01 Mfd.)61-0110		Tone Knob
(6)	Condenser (.05 Mfd.)61-0111	60	Condenser (110 Mmfd.) .60-110157		Condenser (.5 Mfd.)61-0106		Tone Knob Spring57-1937
Õ	Condenser (.05 Mfd.)61-0101		Padder (Pri. 1st. I. F. Trans.)		Filter Condenser		Drive Cord
	Sensitivity Control67-0025		First I. F. Transformer65-0386	G	(10-15-20 Mfd.)61-0089		Drive Cord Spring57-1425FA3
	Image Trap Coil Part of 60		Padder (Sec. 1st I. F. Trans.)	60	Resistor (270 ohms)33-127436		Pointer
	Inductive Tuning Unit77-0701		Condenser (.1 Mfd.)61-0113		Condenser (6,000 Mmfd.)61-0105		Screws
	Manual Tuning Oscillator		Condenser (.05 Mfd.)61-0101		Output Transformer65-0391		(Wiring Side Cover) W2212FA4
0	Transformer Part of (10)		Resistor (680 ohms)33-168336		Replacement Cone		Wiring Side Cover57-1718FC1
(3)	Condenser (12 Mmfd.) 60-012327		Resistor	0	(For Speaker 73-0054-2) 91-0166		Housing Assembly318-2323FC1
	Push Button Coil Assembly .77-0706	0	(1,000,000 ohms)33-510154	69	Field CoilNot Replaceable		Speaker Cover57-1717FC1
	Push Button Coil Assembly Part of @	1	Condenser (.05 Mfd.)61-0101	65			Speaker Unit
	Push Button Coll Assembly Part of @		Resistor (33,000 ohms)33-333434	1			Bolt (Speaker Mtg.) W1582FA4
	Push Button Coll Assembly Part of @		Resistor (22,000 ohms)33-322334	(3			Lockwasher (Speaker Mtg.) W291FE7
	Push Button Coll Assembly Part of (3)		Resistor (20,000 ohms)33-320154	6	Resistor (150 ohms)33-115334		Nut (Speaker Mtg.) W124FA3
	Silver Mica Condenser		Volume Control (35,000 ohms)	63	Vibrator83-0026		Loktal Socket
_	(423 Mmfd.)61-0066	(3)	& On-Off Switch 67-0042	5	Condenser (.5 Mfd.)61-0137		Vibrator Socket
00	Condenser (12 Mmfd.) 60-012327	49	Condenser (4,000 Mmfd.) 61-0128	6			Wafer Switch
	Push Button Coil Assembly Part of @		Resistor (25,000 ohms)33-325154	5	Pilot Lamp		Hook Bolt
	Push Button Coll Assembly Part of (3)		Padder (Pri. 2nd I. F. Trans.)	000	"A" Choke	1	(Radio Mtg.)97-0094FA3
	Push Button Coil Assembly Part of 60		Second I. F. Transformer 65-0387	60	Condenser (.5 Mfd.)61-013		Wing Nut
	Push Button Coll Assembly Part of (3)		Padder (Sec. 2nd I. F. Trans.)	8	Fuse	9	(Radio Mtg.)97-0048FA3
	Push Button Coll Assembly Part of (6)		Condenser (110 Mmfd.) .60-110157	8	Condenser (250 Mmfd.) 60-12515	7	Gland Nut & Sleeve: 77-0459
	Condenser (250 Mmfd.) . 60-125157		Condenser (.02 Mfd.)61-0116	8		4	Interference Condenser ("A")
60	Oscillator Tracking Coll 65-0388		Resistor (220,000 ohms) 33-422334	-	Selector Switch Knob &		(Voltage Regulator)61-0162
	Test Socket Link57-1121		Resistor (470,000 ohms) 33-447154		Spring	6	Interference Condenser
0	Test Socket		Resistor (47,000 ohms) .33-347334		Tuning & Volume Knob77-070	8	(Oil Gauge) (Dist.)61-0163
69	Resistor (10.000 ohms) .33-310334		Condenser (05 Mfd.) 61-0122		Rubber Baffle Gasket55-115	1	

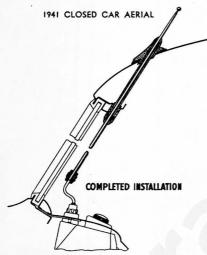
RUN NUMBER CHANGES

"Run Numbers" are stamped on the chassis sub-base for identification. These run numbers are changed consecutively as major changes are made to the Radio wiring and parts.

RUN No. 3 — Ground spring added on sub-base to make contaat on speaker field coil pot.

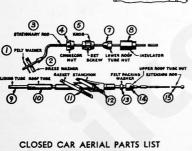
RUN No. 4 - A Resistor (390 ohms) Part No. 33-139334 has been added in series between the plates of all tubes and the 10 Mfd. section of filter condenser. The low side connects to the plates and the high side the filter condenser. This resistor is placed ahead of the 7C5 grid.

F-1840 AND F-1841 FORD AERIALS



OPEN CAR AERIAL PARTS LIST

No.	Description Part	List Price
1	Aerial Rod	\$1.25
2	Gasket55-0285	.03
3	Adjusting Screw	.06
(1)	Aerial Head & Shaft Assy91-0182	2.75
3	Aerial Insulator Assy	.45
(6)	Insulating Bushing55-1300	.40
1	Control Knob	.50
8	Rubber Grommet	.25
9	Lead-in Tip57-1838	.40
10	Lead-in Rod	.45
0	Connector Nut	.15
(2)	Dress Washer57-1137	.10
	Felt Washer (per 100)55-0811	1.25
	Complete Aerial91-0179	4.50
	Lead-in Spring	.10
	Set .Screw Wrench28-4696	.10
Price	Screw (Aerial Rod)W1944	.10



No.	Description No.	Price	
	Complete Aerial91-0178	\$3.50	
0	Felt Washer (per 100)55-0811	1.25	
3	Dress Washer57-1137FA8	.10	
3	Stationary Tube	.90	
•	Connector Nut	.15	
(6)	Knob77-0723	.40	
0	Knob Set Screw	.10	
0	Lower Roof Tube Nut57-1131FA8	.15	
(8)	Insulator55-0783	.10	
0	Sliding Tube	.85	
0	Roof Tube	.50	
00	Gasket	.05	
0	Stanchion	.15	
0	Felt Washer	.02	
8	Upper Roof Tube Nut57-1135FA8	.15	
0	Part of ①		
	Set Screw Wrench28-4696	.10	
	Template	.05	
Price	es subject to change without notice.		

