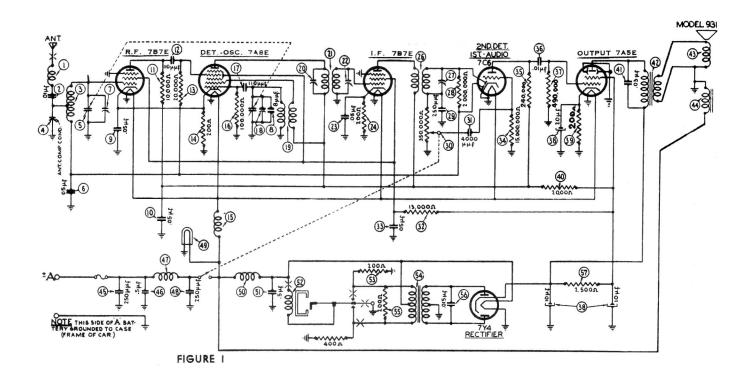
PHILCO TRANSITONE SERVICE BROADCAST

AUGUST, 1939

MODEL C931 PHILCO AUTO RADIO



	PARTS
No.	Description
1	Antenna Choke
(a)	Condenser (.01 mfd.)61-0014
<u>③</u>	Antenna Transformer65-0196
(4)	Antenna Compensator 63-0030
(5)	Tuning Condenser63-0028
(8)	Condenser (.05 mfd.)30-4444
Q	First Padder (on Tun. Cond.)
<u>®</u>	Condenser (8 mmid.)30-1106
(1)	Condenser (.05 mfd.)30-4369
(10)	Condenser (.00 mma.) 32-310344
(11)	Condensor (110 mmfd.) 30-1031
(1)	Pagistor (20 000 ohms) 33-320344
(A)	Resistor (200 ohms) 33-120344
6	Filament Choke65-0158
(18)	Resistor (100,000 ohms) 33-410344
ñ	Condenser (110 mmfd.)30-1031
(8)	Second Padder (on Tun. Cond.)
(19)	Oscillator Transformer65-0194
20	Padder (Pri. 1st I. F. Trans.)
21	First I. F. Transformer65-0191
22	Padder (Sec. 1st I. F. Trans.)
23	Condenser (.05 mfd.)30-4569
24	Resistor (200 ohms)33-120344
26	Second I. F. Transformer65-0192
27	Padder (sec. 2nd I.F. Trans.)
(28)	(2,000,000 ohms)33-520344
a	Condenser (250 mmfd.)61-0033
29 30	Volume Control (350,000 ohms)
90	and On-Off Switch67-0020
(81)	Condenser (4.000 mmfd.)30-4456
<u>a</u>	Resistor (13,000 ohms) 33-313344
(33)	Condenser (.05 mfd.)30-4569
(§3) (§4)	Resistor
	(15.000.000 ohms) .33-615344
	Resistor (240,000 ohms) 33-424344
36	Condenser (.01 mfd.)61-0014

LIST					
No.	Description Part No.				
(87)	Resistor (490,000 ohms) 33-449344				
(38)	Filter Condenser				
	(10-10-20 mfd.)61-0068				
(I)	Resistor (200 ohms) 33-120344				
40	Resistor (2,000 ohms)33-220344				
(11)	Condenser (.03 mfd.)30-4449				
(13) (13)	Output Transformer65-0221				
(43)	Cone Kit				
(44)	(For 73-0027-1 Speaker) 91-0076				
	Field CoilNot Replaceable Condenser (250 mmfd.)61-0033				
45	Condenser (.5 mfd.)61-0054				
(3)	"A" Choke				
6	Condenser (250 mmfd.)61-0033				
\$\$	Pilot Lamp34-2039				
(50)	Vibrator Choke				
(51)	Condenser (.5 mfd.)61-0054				
(52)	Vibrator				
(58)	Resistor (200 ohms)33-120344				
(54)	Power Transformer65-0185				
(53)	Resistor (200 ohms)33-120344				
8688888 8	Condenser (.015 mfd.)30-4552				
(57)	Resistor (2,500 ohms)33-225444				
	Drive Cord (16½")55-0588				
	Drive Cord (5¾")55-0589				
	Drive Cord (13 % ")55-0652				
	Drive Cord (7%")55-0653				
	Dial Assembly 77-0346				

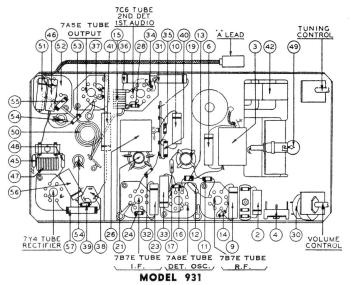


FIGURE 2

No.		Part No.	No.	Descrip	tion	Part No.
	Pointer Window Crystal	57-0794				57-0812FC36 73-0027
	Tuning and Volume Ki	nob55-0547				55-0575

MODEL 931 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, 177 Philco Signal Generator, 028 Philco vacuum tube voltmeter and circuit tester and a 27-7159 Padding screw driver.

General—The vacuum tube voltmeter can be used as a "wireless" output meter as a convenient method for obtaining maximum output reading. Solder one end of a piece of wire to a strip of phosphor bronze approximately 1" wide, 6" long and .02" thick. Coil this strip so that it can be slipped over the top of the type 7A5E output tube, and make a fairly tight contact. Connect the other end of the wire to the "high" terminal of the vacuum tube voltmeter. Then connect a wire from the radio chassis to the "plus" terminal of the vacuum tube voltmeter.

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 generator output lead must be connected to the Radio housing.

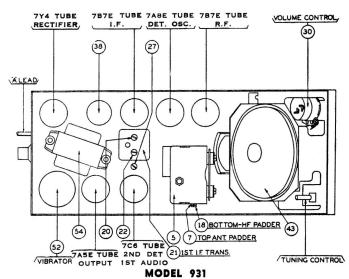


FIGURE 3

	SIGNAL GENERATOR			and a suprementations	ADJUST					
OPERATION	FREQUENCY	CONNECTION	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	PADDER					
ı	460 K.C.	To Antenna Receptacle on Radio	30 Mmfd. See Note I	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	99 99 99 99					
2	1580 K.C.	To Antenna Receptacle on Radio	30 Mmfd. See Note I	Set Tuning Condenser at 1580 K.C.	€					
3	1400 K.C.	To Antenna Receptacle on Radio	30 Mmfd. See Note I	Set Tuning Condenser at 1400 K.C.	⑦ Note 2					

Make all adjustments for maximum reading on the output meter.

- NOTE I Connect the antenna lead, Part No. 41-3191, to the antenna receptacle in the radio. Connect a 30 Mmfd.

 Condenser in series between the signal generator and the antenna lead.
- NOTE 2 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. Also adjust the antenna compensator (4) for maximum on a weak signal at approximately 580 K.C.

PHILCO PRODUCTS LTD.

TORONTO. CANADA