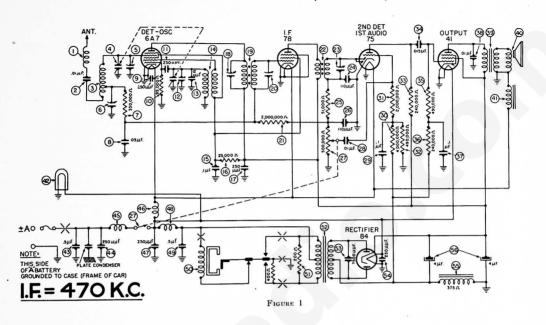
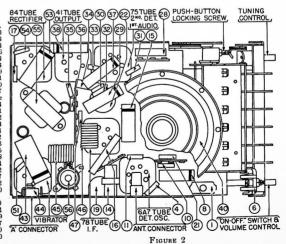
MODELS 921 and 922 (Run No. 2)



PARTS LIST

No. Description Part No.
① Antenna Choke
© Condenser (.01 Mfd.)30-4479
Antenna Transformer32-3037
① Tuning Condenser31-2288
(5) First Padder (on Tun. Cond.)
Antenna Compensator31-6260
@ Resistor (330,000 ohms) 33-433344
© Condenser (.05 mfd.)30-4519
© Condenser (250 mmfd.)30-1032
@ Resistor (99 000 ohms) .33-399344
Condenser (250 mmfd.)30-1032
& Second Pedder (on Tun. Cond.)
Condenser (12 mmfd.) 61-0007
O Occillator Transformer32-3025
60 Condenser (1 mfd)30-4455
A Parietor (25 000 ohms) 33-325544
Condenser (250 mmfd.) 30-1032
A Padder (Pri let I F Trans)
Direct I F Transformer 32-3074
Dodder (See let I F Trans)
Decision (2 000 000 ohms) 33-520344
Cound I F Transformer 32-3076
Dedder (See 2nd I F Trans)
Condenses (110 mmfd.) 30-1031
Desister (51 000 obms) 33-351344
Gendencer (110 mmfd.) 30-1031
Condenser (110 minut.)
and On-Off Switch33-5278
Condenser (.01 mfd.)30-4479
Condenser (.1 mfd.)30-4499 Resistor (4,000,000 ohms) 33-540344
Mesistor (4,000,000 onms) 53-540544

No.	Resistor (2,000,000 ohms) 33-520344 Resistor (24,000,000 ohms) 33-419344 Resistor (240,000 ohms) 33-419344 Resistor (240,000 ohms) 33-419344 Resistor (240,000 ohms) 33-421344 Resistor (201
இ	Resistor (2,000,000 ohms) 33-520344
63	Resistor (490,000 ohms) 33-449344
63	Resistor (240,000 ohms) 33-424344
ಷ	Condenser (.015 mfd.)30-4226
63	Resistor (490,000 ohms) 33-449344
8	Resistor (240,000 ohms) 33-424344
8	Condenser (.1 mfd.)30-4499
8	Condenser (.01 mfd.)30-4501
8	Output Transformer32-8000
8	Cone and Voice Coll45-2707
8	Field Coil Not replacable
8	Pilot Lamp34-2064
8	Condenser (.5 mfd.)30-4491
3	Condenser (250 mmfd.)30-1032
ä	"A" Choke
8	Filament Choke32-1644
8	Condenser (250 mmfd.)30-1032
ä	Vibrator Choke32-3003
8	Condenser (.5 mfd.)30-4565
ä	Vibrator
8	Resistor (200 ohms)33-120344
6	Power Transformer32-7962
8	Condenser (7500 mmfd.)30-4567
8	Condenser (250 mmfd.)30-1032
8	Filter Choke32-7960
(36)	Filter Condenser
0	(4-4 mmfd.)30-2329
	Tuning and Volume Knob27-4761
	Pointer
	Fuee 7227
	Fuse Insulator
	Glass55-0020



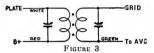
BASE VIEW OF MODEL 922 Model 921 similar except there is no provision for automatic tuning

I. F. TRANSFORMERS AND PADDERS

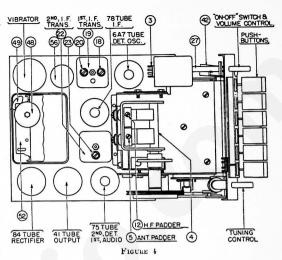
The I. F. transformers are assembled complete with padding condensers.

Both the primary and the secondary padders are placed side by side in the top of the transformer shield can. The adjusting screws are accessible thru the holes in the top of the shield. (See Figure 4).

The coil windings terminate in leads instead of terminals or lugs. The color scheme of the leads is given in Figure 3.



If replacements are ever necessary, replace the entire coil assembly, 32-3074 for the first I. F. stage and 32-3076 for the second I. F. stage. Neither the coil nor the padders will be furnished separately. Order only by the above numbers.



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 — Storage Battery (fully charged) or a 6 volt power pack. Signal Generator such as Philco Models 077 or 177. Vacuum Tube Voltmeter and Circuit Tester, Philco Model 027. In addition a padding screw driver, Philco Part No. 45-2610.

General — The output meter must be connected by means of an adapter to the plate of the type 41 output tube and to the Radio chassis.

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 signal generator output lead must be connected to the Radio housing.

OPERATION	SIGNAL GENERATOR				ADJUST
OPERATION	FREQUENCY	CONNECTION	DUMMY CAPACITY	SPECIAL INSTRUCTIONS	PADDER
ı	470 K.C.	To Antenna Receptacle on Radio	50 Mmfd. See Note I	Turn Tuning Condenser Plates Out of Mesh as Far as They Will Go.	39 39
2	1550 K.C.	To Antenna Receptacle on Radio	50 Mmfd. See Note I	Note 2	129
3	1360 K.C.	To Antenna Receptacle on Radio	50 Mmfd. See Note I	Set Tuning Condenser at 1360 K.C.	① Note 3
4	590 K.C.	To Antenna Receptacle on Radio	50 Mmfd. See Note 1	Set Tuning Condenser at 590 K.C.	6 Antenna Compensato

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 50 Mmfd.

 Condenser in series between the signal generator and the antenna lead.
- NOTE 2 Turn the condenser rotor plates completely out of mesh. Use a piece of bond letterhead paper as a gauge between the heel of the rotor plates and the stator plates of the oscillator section of the tuning condenser, and turn the condenser plates in mesh until they strike the paper.
- NOTE 3 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.