

Model H-125 and H-126

to 1615 kc. Tune the receiver tuning condenser to minimum. Adjust the trimmer on the oscillator section of the main tuning condenser for **maximum** reading on the output meter.

12. Adjust the signal generator to 1400 kc. Bring the output lead near the receiver input but do not make an actual connection. Tune in the test signal on the receiver dial and adjust the antenna trimmer for maximum output as read on the output meter.

The foregoing alignment procedure is condensed in the following table as a convenience for the service technician:

Steps	Connect Signal Generator to—	Adjust Signal Generator to—	Tune Radio Dial to—	Adjust for Maximum Output
1	12SF7 grid in series with a .01 mfd. capacitor	455 kc	quiet point near 1600 kc.	Primary and secondary 2nd i-f transformer
2	12SA7 grid in series with a .01 mfd. capacitor	455 kc	quiet point near 1600 kc.	Primary and secondary 1st i-f transformer
3	12SA7 grid in series with a .01 mfd. capacitor	455 kc	quiet point near 1600 kc.	repeat 1 and 2
4	antenna terminal	455 kc	600 kc	adjust i-f rejection trimmer for minimum output
5	antenna terminal in series with a 50 mfd. capacitor	1615 kc	gang at minimum	oscillator trimmer
6	radiated signal from signal generator	1400 kc	1400 kc	adjust antenna trimmer

Power Supply Polarity:

When the receiver is operated on 110 volts a.c., a slight hum may be heard if the power plug is inserted in such a manner that the "hot" side of the supply line is connected nearest to the chassis. To eliminate this trouble, reverse the supply plug in the convenience outlet.

When operated on direct current, the set will not function at all if the power plug polarity is reversed with respect to the line voltage. If it does not operate within one minute after it is turned on, reverse the plug in the convenience outlet.

Tube Replacement:

When replacing tubes this procedure must be followed to prevent damage to the loop and other delicate parts:

1. Disconnect the power plug from the 110-volt service outlet.
2. Pull the knobs and remove the Phillips head screw from the right-hand plastic cover.
3. Carefully remove the plastic cover and handle.
4. Lift the loop assembly and tilt it forward until the tubes are accessible.
5. Turn the tuning dial to 550 kc to avoid damage to the rotor plates of the tuning condenser.

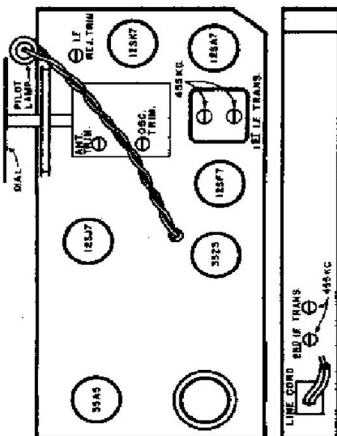


Fig. 1

Alignment Procedure (Refer to Fig. 1):

The overall sensitivity and selectivity of the Little Jewel are affected to a great extent by the alignment of the i-f and r-f circuits. In general, a complete realignment of both circuits is unnecessary. If realignment is required, however, the following procedure is recommended:

1. Remove the knobs, the plastic cover, and the loop as outlined above.
2. Remove the Allen head screw from the left-hand plastic cover and carefully lift off the cover.
3. Turn on the receiver and tune to a quiet spot near 1600 kc.
4. Connect an a-c output meter across the speaker voice coil. Turn the meter range switch to a high-voltage position.
5. Connect the outer conductor of the signal generator test lead to the common negative (this is the metal can enclosing the filter capacitors). Reduce the output of the signal generator to prevent a.v.c. action during the alignment procedure.
6. Connect the inner conductor of the signal generator test lead to the 12SF7 i-f amplifier control grid through a capacitance of 0.01 mfd. Adjust the signal generator frequency to 455 kc.
7. With an insulated screwdriver or neutralizing tool, adjust the second i-f transformer secondary trimmer for maximum reading on the output meter. Use the lowest practicable scale on the meter and, as the circuits come into alignment, reduce the signal generator output to prevent a.v.c. action.
8. Repeat operation 7, this time adjusting the second i-f transformer primary trimmer.
9. Connect the signal generator output, through the 0.01 mfd. capacitor, to the control grid of the 12SA7 converter tube. Repeat operations 7 and 8, this time adjusting the secondary and primary trimmers of the first i-f transformer.
10. Connect the signal generator output, adjusted to 455 kc, to the antenna terminal at the bottom of the cabinet. Tune the radio dial to 600 kc. Adjust the i-f rejection trimmer for **minimum** reading on the output meter.
11. Connect the test oscillator output through a capacitance of 50 mfd. to the antenna terminal at the bottom of the cabinet. Adjust the signal generator frequency

Courtesy of nucow.com

PARTS LIST FOR H-125 AND H-126

When ordering parts specify model number of set in addition to part number and description of part.

Item No.	Part No.	Description of Part
1	V-3466	Loop antenna
3	V-3474	Capacitor, variable
3A		Capacitor, antenna tuner
3B		Capacitor, antenna trimmer
3C		Capacitor, oscillator tuner
3D		Capacitor, oscillator trimmer
5	RCM20A420K	Capacitor, 47 mmfd.
6	RCM20A470M	Capacitor, 47 mmfd.
7	RCM20A101M	Capacitor, 100 mmfd.
8	RCP10W6102A	Capacitor, 1,000 mmfd.
10	RCM20A471M	Capacitor, 470 mmfd.
11	RCP10W6502A	Capacitor, .005 mfd.
12	RCP10W2253K	Capacitor, .025 mfd.
13	RCP10W2103A	Capacitor, .01 mfd.
15	RCP10W2403K	Capacitor, .04 mfd.
16	RCP10W2403A	Capacitor, .04 mfd.
17	RCP10W2104A	Capacitor, .10 mfd.
18	RCP10W4104A	Capacitor, .10 mfd.
19	RCP10W2204A	Capacitor, .20 mfd.
20	V-3470	Capacitor, electrolytic
20A		Capacitor, 50 mfd. 150 volts electrolytic
20B		Capacitor, 50 mfd. 150 volts electrolytic
20C		Capacitor, 20 mfd. 25 volts electrolytic
21	V-3476	Control, volume and switch
21A		Control, variable resistor
21B		Control, switch
22	V-3473	Coil, oscillator
23	V-3465	Coil, trap assembly
23A		Coil
23B		Coil
29	V-3477	Trap trimmer
30		Cord, power A.C.
31	Westinghouse Type No. 47-	Light, pilot
33	RC20AE270K	Resistor, 27 ohms 0.5 watt
33	RC20AE475M	Resistor, 47 megohms 0.5 watt
34	RC20AE181J	Resistor, 180 ohms 0.5 watt
35	RC30AE152K	Resistor, 1,500 ohms 1 watt
36	RC20AE472K	Resistor, 4700 ohms 0.5 watt
37	RC20AE153K	Resistor, 15,000 ohms 0.5 watt
38	RC20AE333K	Resistor, 33,000 ohms 0.5 watt
39	RC20AE225M	Resistor, 2.2 megohms 0.5 watt
40	RC20AE473M	Resistor, 47,000 ohms 0.5 watt
41	RC20AE473K	Resistor, 47,000 ohms 0.5 watt
42	RC20AE823K	Resistor, 82,000 ohms 0.5 watt
43	RC20AE104K	Resistor, 100,000 ohms 0.5 watt
45	RC20AE334M	Resistor, 330,000 ohms 0.5 watt
46	RC20AE474K	Resistor, 470,000 ohms 0.5 watt
47	V-3475	Speaker, 5 inch permanent magnet
48	V-3496	Transformer, output
50	V-3471	Transformer, 1st i-f
51	V-3472	Transformer, 2nd i-f
	V-3219S-1	Cord, dial drive

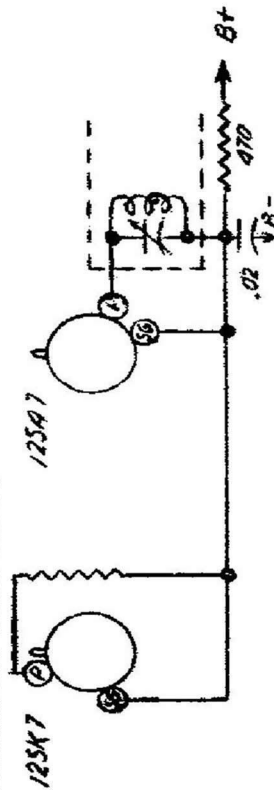
Courtesy of nucow.com

V-3455-1	Dial (for Model H-125 only)
V-3455-2	Dial (for Model H-126 only)
V-3449	Drive shaft bearing
V-3480	Shaft, drive
V-3468	Socket, molded octal tube
V-3469	Socket, molded octal tube (shielded)
V-3499	Socket, pilot light
V-3448	Spring, dial drive
V-3435	Bumper, felt (screw type)
V-3501-1	Case assembly, center
V-3461-1	Cover, left-hand (H-125 only)
V-3459-1	Cover, right-hand (H-125 only)
V-3498-1	Handle assembly (H-125 only)
V-3481-1	Knob (H-125 only)
V-3491	Terminal strip assembly
V-3461-2	Cover, left-hand (H-126 only)
V-3459-2	Cover, right-hand (H-126 only)
V-3498-2	Handle assembly (H-126 only)
V-3481-2	Knob (H-126 only)
V-3711-1	Baffle and Grille Cloth Assembly (H-125)
V-3711-2	Baffle and Grille Cloth Assembly (H-126)
V-3335-1	Medallion (H-125 only)
V-3335-2	Medallion (H-126 only)
V-3745	Socket, lock-in

SUBJECT: CIRCUIT CHANGE, H-125 and H-126 Radios

Effective July 11, 1946, all Model H-125 and H-126 radios which have the letter "C" stamped on the end of the chassis directly below the output tube, have been changed as follows:

A 470 ohm 1/4 watt isolating resistor has been inserted in the plate and screen supply line for the R.F. and converter stages, and a .02 mfd, 200 volt paper by-pass capacitor has been connected from the tube side of this resistor to the common negative line. These connections are shown below.



Where this change has been incorporated in the radio, voltages at the R.F. and converter tube sockets will differ slightly from the values given in the original Service Notes. Approximate voltages when the change is incorporated are as follows: 12SK7 screen grid 66 V., plate 30 V.; 12SA7 screen grid 66 V., plate 65 V.

Procurement difficulties with respect to certain components make the change advisable at this time.

Westinghouse H-125, H-126, H-127

Several changes were made in the chassis of these two models in late production. A 35L6GT output tube replaces the 35A5. The electrical characteristics of the tubes are similar except for a difference in tube bases and connections. An isolating network consisting of a 470-ohm resistor (44) and a 0.02- μ f capacitor (14) has been inserted in the plate and screen voltage supply line for the r-f and converter stages. In the circuit, the rotor plates of the tuning and trimmer capacitors are now connected directly to chassis ground rather than to the AVC line.

Model H-127 is the same as the previous models with a burgundy and gold cabinet. The following items should be added to the parts lists for these models:

14	RCP10W2203A	Capacitor, 0.02 μ f
44	RC20AE471M	Resistor, 470 ohms
	Courtesy of nucow.com	0.5 watt
	V-3711-2	Case Assembly, center (H-126 and H-127)
	V-3991	Cover, left hand (H-127)
	V-3992	Cover, right hand (H-127)
	V-3498-2	Handle Assembly (H-127)
	V-3481-2	Knob (H-127)
	V-3333-2	Medallion (H-127)
	V-3455-2	Dial (H-127)