

Sears Roebuck & Co.

Model: 6490

Chassis:

Year: Pre June 1940

Power:

Circuit:

IF:

Tubes:

Bands:

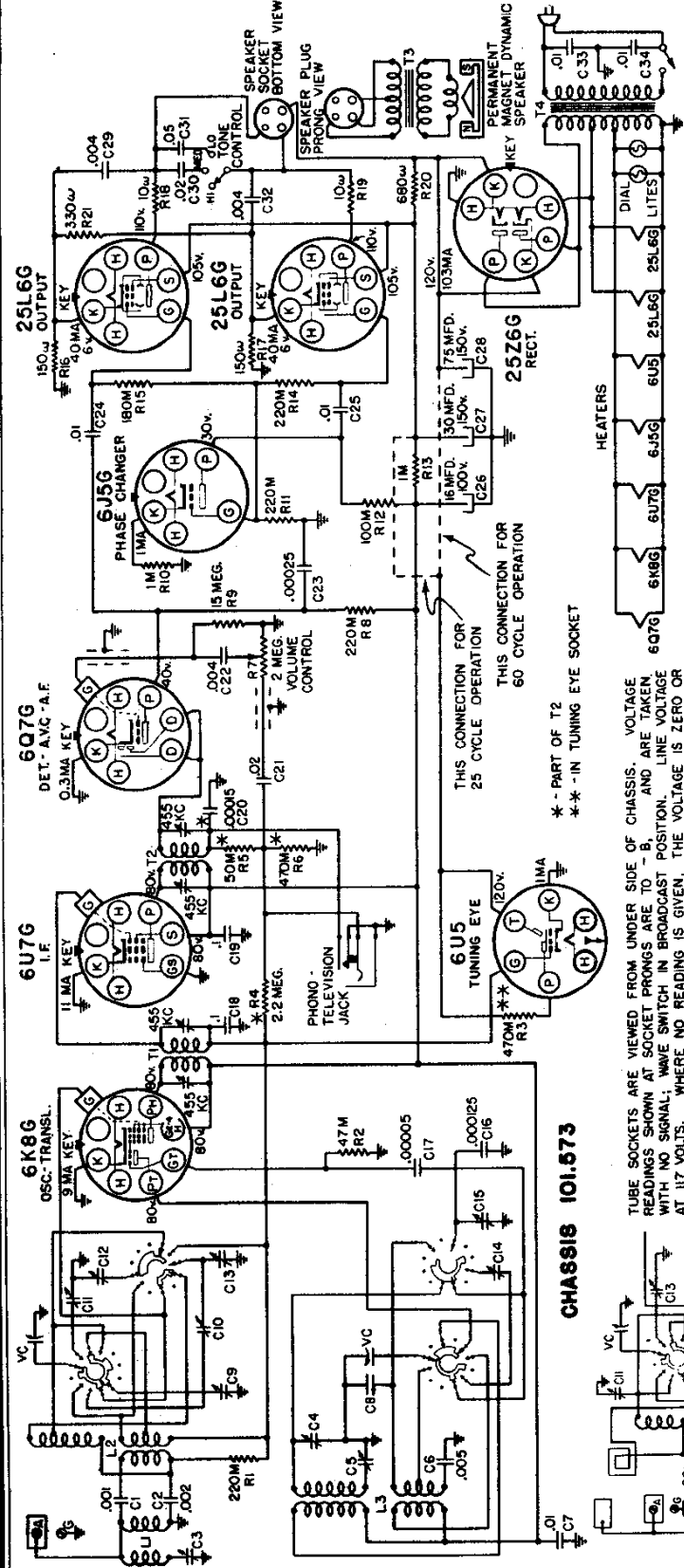
Resources

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SEARS, ROEBUCK & CO.

MODELS 6335,6435,6490
 6495,Ch.101.573
 Schematic,Voltage,Tuner
 MODEL 6490A,Ch.101.573-1,-1B
 Change in Schematic



JUNE 19, 1939

INTERMEDIATE FREQUENCY 455 kc

POWER SUPPLY:
 All models available 105-125 v., 50-60 cycles AC; 65 watts
 All models available 105-125 v., 25-60 cycles AC; 65 watts

POWER OUTPUT:
 Type Push-pull beam
 Undistorted 3 watts
 Maximum 3.7 watts

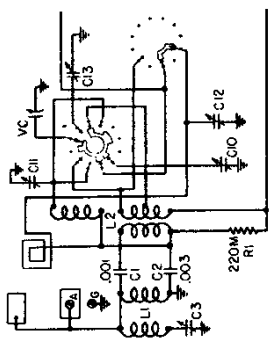
LOUD SPEAKER:
 Type FM Dynamic
 Size8 and 10 inch

PUSH BUTTON TUNING MECHANISM:

The adjustment for each push button is locked or unlocked by tightening or loosening the slotted screwhead made accessible when the push button knob is pulled off of its plunger. Stations are set up by unlocking the mechanism, holding the plunger all the way in and tuning to the desired station, and then securely locking the adjustment.

CHASSIS 101.573

TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO - B, AND ARE TAKEN WITH NO SIGNAL, WAVE SWITCH IN BROADCAST POSITION. LINE VOLTAGE AT 117 VOLTS, WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.

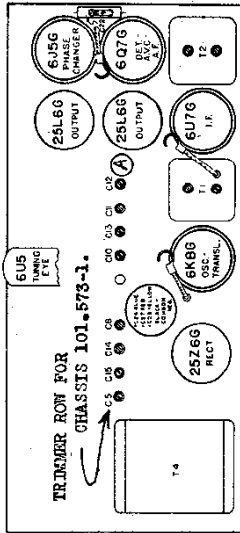


CHASSIS 101.573 -1

MODELS 6335, 6435, 6490
6495, Ch. 101.573; 6490A
Ch. 101.573-1, -1B
Alignment, Chassis

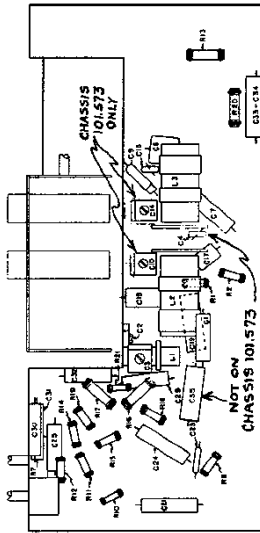
SEARS, ROEBUCK & CO.

Trimmers, Socket
Dial Data
MODELS See Below
Dial Drive Data

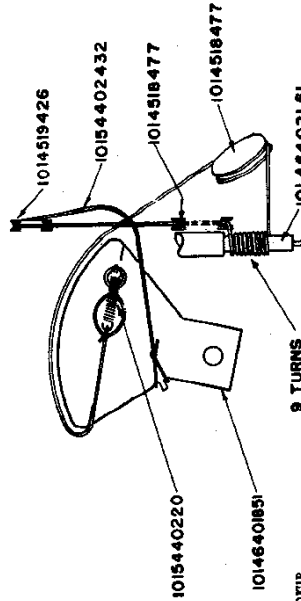


LOCATIONS OF PARTS ON TOP OF CHASSIS

TRIMMER ROW AT (A) ABOVE
FOR CHASSIS 101.573



LOCATIONS OF PARTS UNDER CHASSIS



9 TURNS
1015440220
1015440245
1014640183
1014518477
10146402161

ALIGNMENT PROCEDURE

PRELIMINARY:
Output meter connection to indicate 500 milliwatts . . . Across loud speaker voice coil
Generator ground lead connection . . . 500 milliwatts output
Generator modulation . . . To set 500 cycle
Position of Volume Control . . . 30% 500 cycle
Position of Tone Control . . . Fully clockwise
Position of Dial Pointer with variable fully closed . . . HI
Position of Dial Pointer with variable fully closed . . . AV block to left of
550 to calibration mark.

FOR CHASSIS 101.573-1

| WAVE BAND POSITION | GENERATOR FREQUENCY | DUMMY ANTENNA CONNECTION | GENERATOR CONNECTION | TRIMMER (IN ORDER SHOWN) | TRIMMER FUNCTION | APPROXIMATE MICROVOLTS |
|--------------------|---------------------|--------------------------|----------------------|--------------------------|------------------|------------------------|
| "A" | Closed | 455 kc | 6K8G Grid | T2, T1 | IF | -- |
| "A" | 500 kc | 455 kc* | 0003 mfd. Ant. Term. | C5 | Wave Trap | -- |
| "B" | 2.5 mc | 400 ohms Ant. Term. | C14 | Oscillator | 100 | |
| "B" | 2.5 mc | 1500 ohms Ant. Term. | C11 | Transistor | 100 | |
| "B" | 2.5 mc | 1500 ohms Ant. Term. | C12 | Transistor | 40 | |
| "B" | 1400 kc | 0.002 mfd. Ant. Term. | C12 | Padder | 40 | |
| "A" | 600 kc (rock) | 600 kc | C5 | Transistor | 15 | |
| "C" | 15 mc (rock) | 400 ohms Ant. Term. | C13 | Osc. Transl. | 80 | |
| "D" | 9.55 mc | 400 ohms Ant. Term. | C15, C10 | Osc. Transl. | 80 | |

FOR CHASSIS 101.573

| WAVE BAND POSITION | GENERATOR FREQUENCY | DUMMY ANTENNA CONNECTION | GENERATOR CONNECTION | TRIMMER (IN ORDER SHOWN) | TRIMMER FUNCTION | APPROXIMATE MICROVOLTS |
|--------------------|---------------------|--------------------------|-----------------------|--------------------------|------------------|------------------------|
| "A" | Closed | 455 kc | 6K8G Grid | T2, T1 | IF | -- |
| "A" | 500 kc | 455 kc* | 0.003 mfd. Ant. Term. | C5 | Wave Trap | -- |
| "A" | 1400 kc | 1750 kc | 0.003 mfd. Ant. Term. | C4 | Oscillator | 40 |
| "A" | 500 kc (rock) | 600 kc | 0.003 mfd. Ant. Term. | C12 | Transistor | 40 |
| "B" | 2.5 mc | 2.5 mc | 400 ohms Ant. Term. | C14, C10 | Transl. Pad. | 100 |
| "B" | 2.5 mc | 400 ohms Ant. Term. | C13 | Transistor | 100 | |
| "C" | 15 mc (rock) | 15 mc | 400 ohms Ant. Term. | C11 | Transistor | 15 |
| "D" | 9.55 mc | 9.55 mc | 400 ohms Ant. Term. | C15, C4 | Osc. Transl. | 80 |

Repeat the C14, C10 and C12 adjustments until perfect alignment is obtained. This will require going back and forth over these adjustments several times.

IMPORTANT ALIGNMENT NOTES

* The generator should be adjusted for high output. The trimmer should be adjusted for minimum output. The frequency of the generator should be checked for accuracy or an interfering station around 455 kc is known. The generator should be adjusted to the frequency of that station instead of to 455 kc. C3 is mounted under chassis.

Where indicated by the word, "Rock", the variable should be rocked back and forth a degree or two while making the adjustment.

The alignment procedure should be repeated stage by stage, in the original order, for greatest accuracy. Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the receiver ineffective.



DIAL DRIVE HOOKUP

THIS DIAL AND DRIVE HOOKUP APPLIES DIRECTLY TO MODELS 6335, 6435, 6490, 6495, CHASSIS 101.573; 6490A CHASSIS 101.573-1, -1B; 6359, 6360, 6361, 6379, 6380, 6381 CHASSIS 101.573; 6388 CHASSIS 101.582; 6382 CHASSIS 101.594; ALSO TO MODELS 6362, 6363, 6364 CHASSIS 101.581 EXCEPT THAT PART NO. 1014141219 REPLACES PART 101414183 SHOWN ABOVE. THE ABOVE ALSO APPLIES TO MODEL 6441 CHASSIS 101.599 EXCEPT THAT PART NO. 1015440240 REPLACES NO. 1015440220 AND 1014519428 REPLACES PART NO. 1014519428 SHOWN ABOVE.