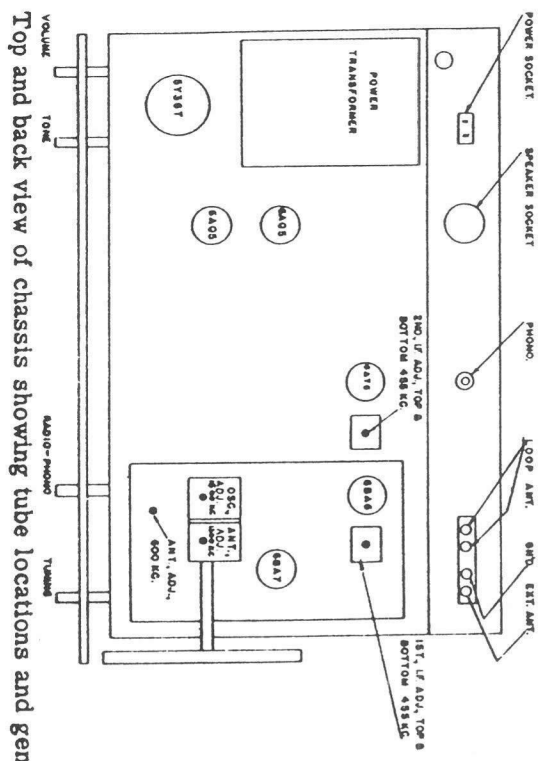
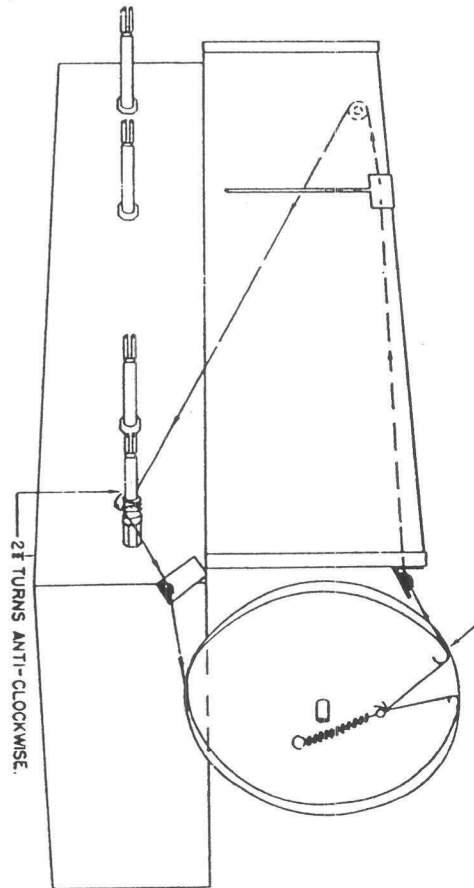


1948-49 IF = 455 KC

Courtesy of nucow.com



Top and back view of chassis showing tube locations and general layout. — Fig. 1



AC MODEL 49

ADDISON

The Model 49 employs a powerful six tube superheterodyne chassis, the physical arrangement of which is shown in Figure 1, the electrical circuit is shown in Figure 4. Features of design include:- Built-in Antenna; Continuously variable tone control featuring bass-treble boost circuits; Easily read edge-illuminated dial; Push-Pull output; and Automatic volume control.

1948-49

ALIGNMENT PROCEDURE

All tuned circuits in this receiver have been accurately adjusted at the factory, and any further adjustment should not be necessary. If, however, any re-alignment should later be required, the procedure outlined in the Chart of Alignment, Figure 3, should be followed in the order shown.

Output Meter - Connect meter leads to the voice coil terminals of the Speaker, and turn the receiver volume control to maximum.

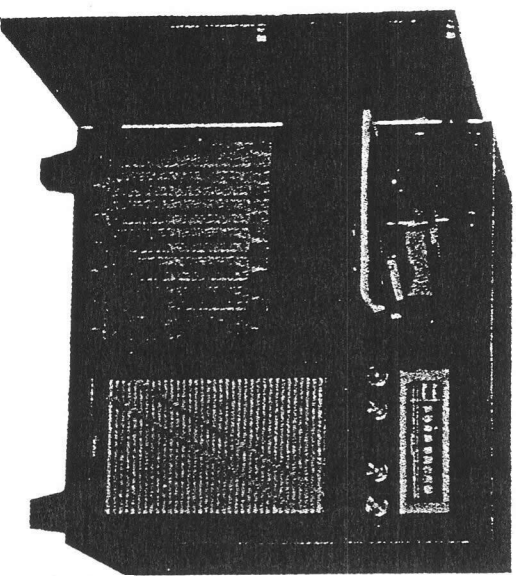
Test Oscillator or Signal Generator - For all alignment operations connect the ground side of the test apparatus to the receiver chassis, and keep the output of the test generator as low as possible to avoid A.V.C. action in the receiver.

| Alignment Sequence | Test Oscillator | | Adjust | Dial set at |
|--------------------|-----------------|----------------|-------------------------|-------------|
| | Frequency | In series with | | |
| 1 | 455 KC. | .05 mfd. | 1st and 2nd I.F. | 1600 KC. |
| 2 | 600 KC. | 200 mmf. | Antenna coil Iron core. | 600 KC. |
| 3 | 1500 KC. | 200 mmf. | Oscillator trimmer. | 1500 KC. |
| 4 | 1500 KC. | 200 mmf. | R.F. trimmer. | 1500 KC. |

- A49A. 25 cycle. Walnut.
- A49B. 25 cycle. Mahogany.
- A49C. 25 cycle. Bleached Mahogany.
- B49A. 60 cycle. Walnut.
- B49B. 60 cycle. Mahogany.
- B49C. 60 cycle. Bleached Mahogany.

Figure 3.

NOTE:- Loop Antenna should be connected to receiver during alignment procedure.



Courtesy of nuco.w.com

IF = 455 KC

AC MODEL 49

ADDISON

MODELS - 16,45,46 and 47

VOLUME CONTROL

| <u>Circuit Designation</u> | <u>Value</u> | <u>Mfrs. No.</u> | <u>IRC No.</u> |
|----------------------------|--------------|------------------|------------------------|
| R6 | 1 Meg. | 5 | 13-137 Sw.No. 22 |

CAPACITORS

| | | | <u>AEROVOX No.</u> |
|---------|--------------------|-----|--------------------|
| C1A,B,C | Tuning Gang | 40A | |
| C5,C7 | .05 400V pp. | | 484 |
| C6,C14 | .1 200V pp. | | 284 |
| C8,C18 | 50 mmfd. mica | | 1468 |
| C11 | 250 mmfd. mica | | 1468 |
| C12,C16 | .003 600V pp. | | 684 |
| C13 | 100 mmfd. mica | | 1468 |
| C15 | .02 600V pp. | | 684 |
| C17 | 10 mfd. 150V Elec. | | PRT150 |

MISCELLANEOUS

| | | | <u>JENSEN No.</u> |
|-----|------------------|-------|-------------------|
| L1 | Ant. Coil | 12 | |
| L1A | Loop Ant. | 49-11 | |
| L2 | R.F. Coil | 13 | |
| L3 | Osc. Coil | 14 | |
| S | Speaker 4.5" PM | 20 | |
| S | Speaker 8" PM | 32K | P8V |
| T1 | 1st. I.F. Trans. | 10 | |
| T2 | 2nd. I.F. Trans. | 11 | |
| T3 | Output Trans. | 61 | 2420 |

Courtesy of nuco.w.com

MODEL 49

VOLUME AND TONE CONTROLS

| <u>Circuit Designation</u> | <u>Value</u> | <u>Mfrs. No.</u> | <u>IRC No.</u> |
|----------------------------|--------------|------------------|--------------------------|
| 33-33A | 500K | 27-10 | 18-133X Sw. No. 21 |
| 34 | 2 Meg. | 27-11 | 13-139 |

CAPACITORS

| | | | <u>AEROVOX No.</u> |
|---------|-------------------------------|-------|--------------------|
| 38A,B | Tuning Gang | 15-10 | |
| 48 | .01 600V pp. | | 684 |
| 49 | .02 600V pp. | | 684 |
| 50 | .05 400V pp. | | 484 |
| 51 | .002 600V pp. | | 684 |
| 54 | 33 mmfd. ceramic | 20% | 1468 |
| 55 | 100 mmfd. ceramic | 20% | 1468 |
| 56 | 330 mmfd. ceramic | 20% | 1468 |
| 58A,A,B | Capristor | 18-10 | |
| 59A,B,C | 30-30-30 mfd. 450-400-350V | 18-11 | PRT450 |

MISCELLANEOUS

| | | | <u>JENSEN No.</u> |
|-------|------------------|-------|-------------------|
| 24A,B | Dual 90Ω | 14-10 | |
| 40 | I.F. Trans. | 23-13 | |
| 41 | Power Trans. 60C | 23-11 | 1010 |
| 42 | Power Trans. 25C | 23-12 | 1011 |
| 45 | Ant. Coil | 29-10 | |
| 47 | Osc. Coil | 29-11 | |
| 92 | Output Trans. | 23-10 | 2430 |
| 94 | Speaker 10" PM | 24-10 | P10T |

IRC FIXED RESISTORS

| <u>Metallized:</u> | <u>Type</u> | <u>Wire Wound:</u> | <u>Type</u> |
|--------------------------|-------------|----------------------|-------------|
| 1/2 watt 470Ω to 22 meg. | BTS | 1/2 watt .47 to 820Ω | BW-1/2 |
| 1 watt 330Ω to 22 meg. | BTA | 1 watt .47 to 5100Ω | BW-1 |
| 2 watt 470Ω to 22 meg. | BT-2 | 2 watt 1 to 8200Ω | BW-2 |

For replacing resistors rated from 5 to 10 watts IRC type AB is recommended. Their resistance values range from 1 to 50,000 ohms. Note however that above 25,000 ohms type AB should not be called upon to dissipate more than 5 watts. Type D is recommended in this case.