

ALIGNMENT DATA

Remove the chassis from the cabinet. A Signal Generator with the following frequencies is required 455 KC, 1400 KC and 1720 KC.

The receiver volume control should be turned to maximum during the I F and all subsequent alignments to keep the AVC from working and giving false readings Turn the tone control to complete left hand position. Keep the generator output as low as possible to prevent overloading

Connect an output meter across the voice coil of the speaker.

Connect a 20,000 ohm resistor across the loop connector terminals to reflect proper loop impedance

FIRST STEP: Connect the hot lead from the generator to the "ANT" section of the gang condenser through a 1 MFD. condenser. The ground lead must be connected to the floating ground buss under the chassis Turn the gang condenser to complete minimum capacity Adjust the generator to 455 KC and adjust the trimmers of the 1st and 2nd I F. transformers until a maximum reading is noted on the output meter

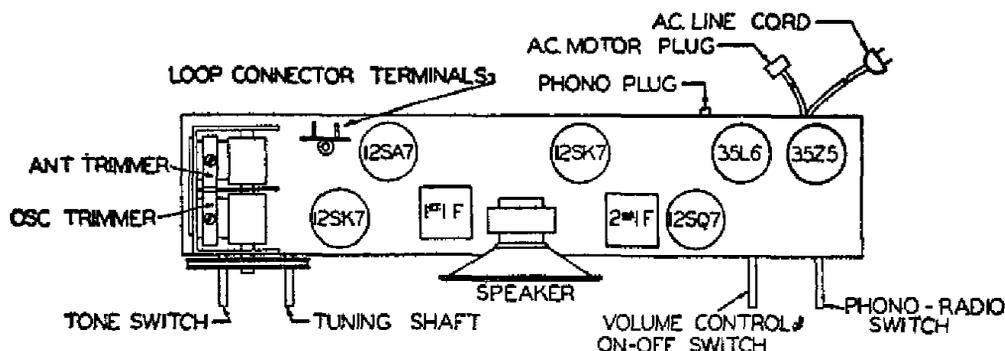
SECOND STEP: With the leads from the generator connected in the same manner as in I F alignment, adjust the signal generator to 1720 KC. The "OSC" trimmer is located on the front section of the gang condenser. Adjust this trimmer until the signal is tuned in. The gang condenser should be at complete minimum capacity for this setting.

THIRD STEP: Remove the generator leads from the chassis. Remove the 20,000 ohm resistor from the loop connector terminals Reinstall the chassis in the cabinet, connect the loop leads, motor plug and phono pickup leads

Connect the generator leads to a transmitting loop, made of a few turns of wire, and loosely couple to the receiver loop antenna which is located on the back end of the cabinet Adjust the generator to 1400 KC. Rotate the tuning control until this signal is tuned in. The "ANT." trimmer is located on the rear section of the gang condenser. Adjust this trimmer until a maximum signal is noted on the output meter.

No further adjustment should be necessary, unless the receiver has been damaged, as the coils and tuning condenser have been specially handled at the factory to insure proper alignment at the lower frequencies

TUBE AND TRIMMER LOCATION



| PART NO | DESCRIPTION |
|---------|-----------------------------------|
| PC 7 | C 1 01 MFD. CONDENSER 400 V |
| PC 5 | C 2 05 MFD. CONDENSER 400 V |
| PC 8 | C 3 1 MFD. CONDENSER 400 V |
| MC 2 | C 4 100 MMFD. MICA CONDENSER |
| MC 4 | C 5 50 MMFD. MICA CONDENSER |
| MC 5 | C 6 500 MMFD. MICA CONDENSER |
| EC 14 | C 7 20 MFD. |
| | C 8 40 MFD. 150 WV ELECTROLYTIC |
| | C 9 40 MFD. |
| EC 2 | C 10 10 MFD. 25 WV ELECTROLYTIC |
| 1R-20 | R 1 220M Ω RESISTOR 1/2W 20% |
| 1R-15 | R 2 2200 Ω RESISTOR 1/2W 20% |
| 1R-10 | R 3 47K Ω RESISTOR 1/2W 20% |
| 1R-9 | R 4 22M Ω RESISTOR 1/2W 20% |
| 1R-23 | R 5 33 MEG RESISTOR 1/2W 20% |
| 1R-1 | R 6 470M Ω RESISTOR 1/2W 20% |
| VC-4 | R 7 1 MEG VOLUME CONTROL |
| 1R-13 | R 8 2.2 MEG RESISTOR 1/2W 20% |
| 1R 1 | R 9 470 Ω RESISTOR 1/2W 20% |
| 1R-42 | R 10 1000 Ω RESISTOR 1 W 10 % |
| 1R 4 | R 11 150 Ω RESISTOR 1/2W 20% |
| 1R-17 | R 12 33 Ω RESISTOR 1/2W 20% |
| GC 5 | G 1 GANG CONDENSER |
| | G 2 ANT TRIMMER |
| | G 3 ANT TRIMMER |
| | G 4 OSC TRIMMER |
| LI-8 | T 1 INPUT IE TRANSFORMER |
| LI 7 | T 2 OUTPUT IE TRANSFORMER |
| | T 3 OUTPUT TRANSFORMER |
| LL-17 | L 1 LOOP ANT |
| LO 15 | L 2 OSC COIL |
| SPK-12 | SP 5 PM SPEAKER |
| SW 2 | S 1 TONE SWITCH |
| | S 2 SWITCH ON VOLUME CONTROL |
| SW 1 | S 3 PHONO RADIO SWITCH |
| | S 4 SWITCH ON RECORD CHANGER |
| AC M 7 | M RECORD CHANGER MOTOR |
| AC PU 7 | P CRYSTAL PICKUP ARM CARTRIDGE 51 |
| CO 2 | PB #47 PILOT BULB |
| | PL LINE CORD |