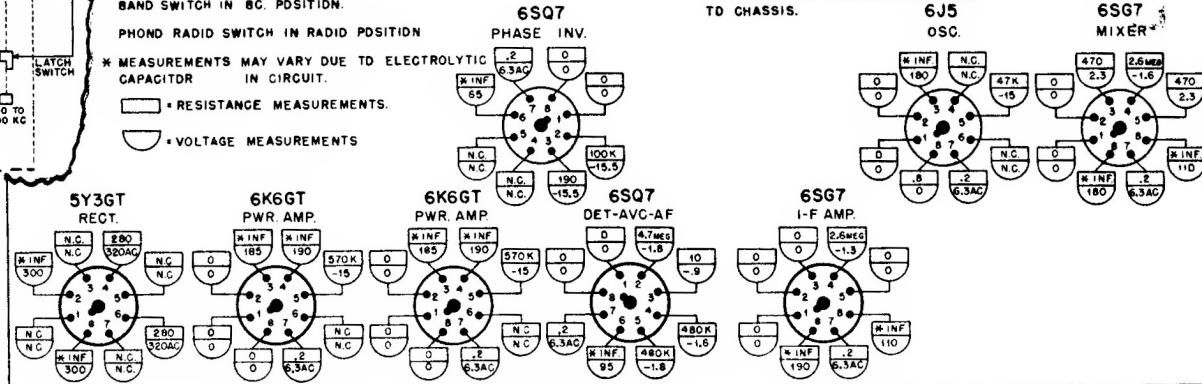


VOLUME CONTROL ON FULL.
VOLTAGE TOLERANCE $\pm 10\%$
RESISTANCE TOLERANCE $\pm 20\%$
BAND SWITCH IN B.C. POSITION.
PHONO RADIOD SWITCH IN RADIOD POSITION
* MEASUREMENTS MAY VARY DUE TO ELECTROLYTIC CAPACITOR IN CIRCUIT.
□ = RESISTANCE MEASUREMENTS.
◐ = VOLTAGE MEASUREMENTS

NOTE: - A V.T.V.M. WAS USED TO MAKE MEASUREMENTS. IF A 20,000 OHM PER VOLT METER IS USED ALL GRID & AVC VOLTAGES WILL READ LOWER.

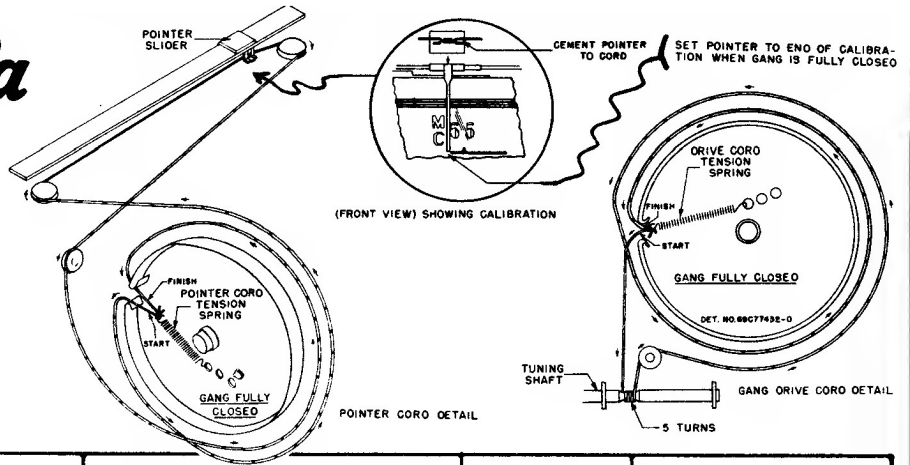
MEASUREMENTS ARE MADE FROM TUBE BASE PIN TERMINALS TO CHASSIS.



Motorola Model 85F21
Chassis HS-22
(Models 65F21, 85K21,
Chassis HS-26, HS-52,
are similar).

Motorola

Model 85F21
Chassis HS-22



ALIGNMENT

| Step | Gang Setting | Band | Dummy | Generator Connected to | Generator Frequency | Trimmer or Core | Remarks |
|------|--------------|------|-------|-----------------------------|---------------------|-----------------|--|
| 1 | Fully opened | B. C | .1mf | Mixer grid & chassis | 455 kc | 1, 2, 3, & 4 | Adjust I. F. & Diode trans. for maximum |
| 2 | Fully opened | B. C | - | Radiation loop* | 1620 kc | 5 | Set oscillator to dial scale |
| 3 | 1400 KC | B. C | - | Radiation loop* | 1400 kc | 6 † | Tune signal generator for max. on output meter, then peak trimmer. |
| 4 | 12.2 MC | SW | 50mmf | Short wave antenna terminal | 12.2 Mc | 7 | Set osc. to dial scale. |
| 5 | 11.5 MC | SW | 50mmf | Short wave antenna terminal | 11.5 Mc | 8 | Tune signal generator for max. on output meter, then peak trimmer. |

† Repeat after chassis and loop are installed in cabinet.

* Connect output of signal generator to a 5" diameter, 3 turn loop. With volume on full, bring loop close enough to receiver until output of 50 milliwatts is obtained. (.38V on output meter). Vary distance between generator and receiver loops to maintain this output during alignment. Minimum distance between loops should never be less than 12".

