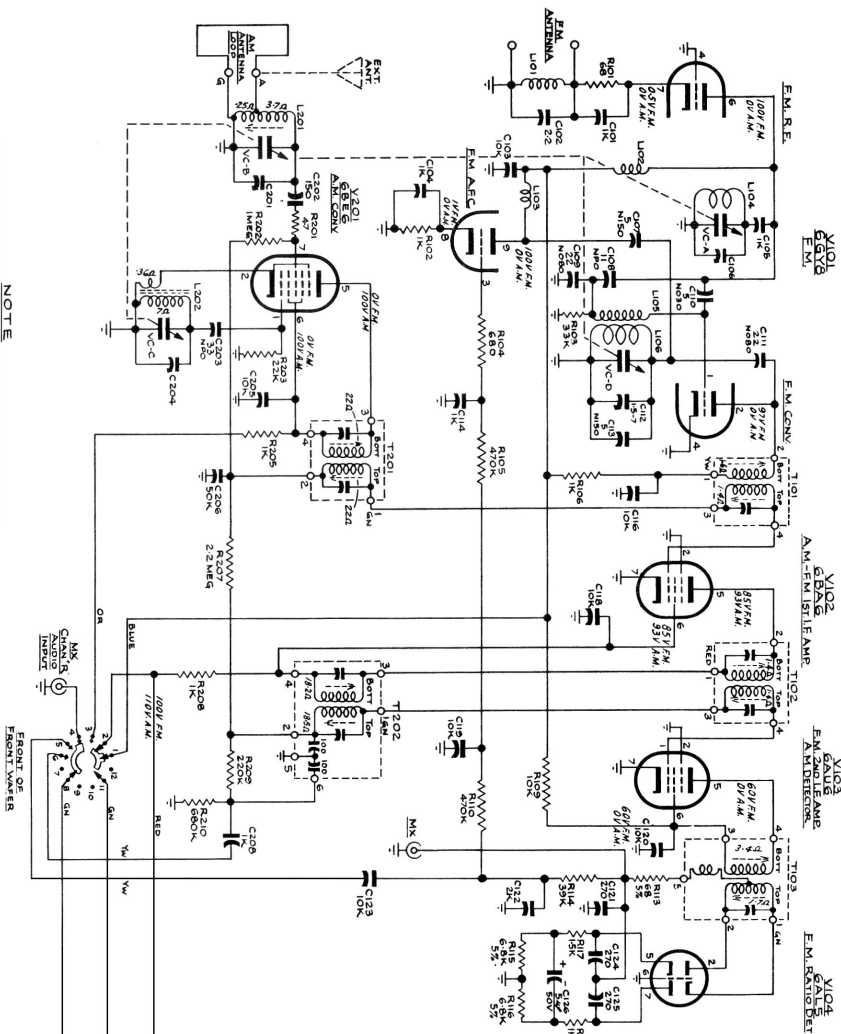




Sparton 23M4

NOTE
VOLTAGE READINGS TAKEN TO CHASSIS WITH VTVM.
RESISTANCE READINGS TAKEN WITH OHMMETER.
RESISTANCE READINGS ARE OUT OF CIRCUIT READINGS.
UNLESS OTHERWISE SHOWN,
RESISTANCES IN OHMS (1/2 WATT).
CAPACITANCES IN MICROFARADS.
RESISTANCES IN KILOHMS.
CAPACITANCES IN MICROFARADS.

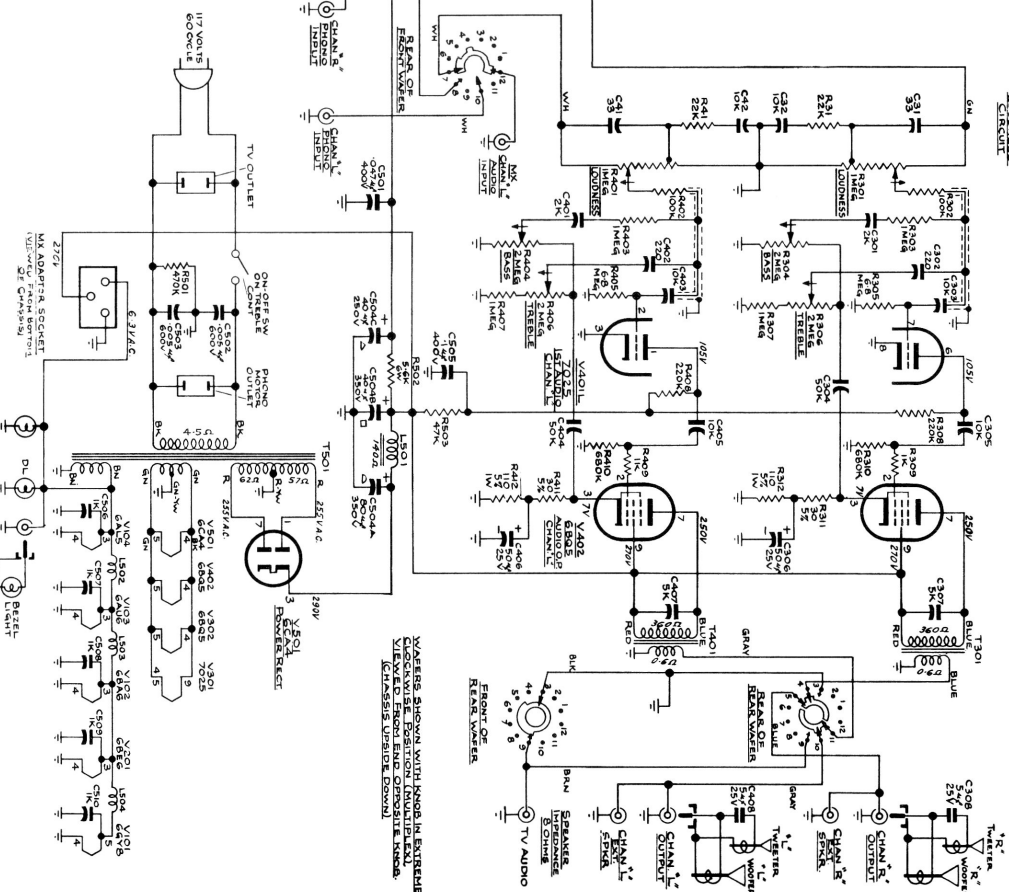
At least 15 minute warm-up should be allowed before adjustments are made.

AM RADIO ALIGNMENT

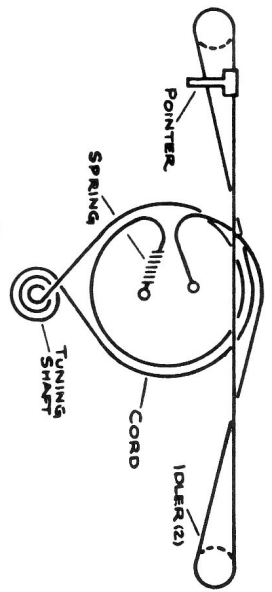
1. Switch Function Switch to AM position. Connect Signal Generator between AM antenna terminal and chassis. Set Generator to 455 Kcs loop antenna to reduce noise pickup.
2. Adjust T201 by turning top slug out a couple of turns. Tune set to quiet spot near 1500 Kcs. Adjust T202 bottom, then top; T201 bottom, then top, for maximum output. DO NOT REPEAK.
3. With tuning capacitor at minimum capacity and Signal Generator set to 1610 Kcs, adjust oscillator trimmer C204 to set oscillator. (Tuning range 535 to 1610 Kcs.)
4. Plug in AM loop antenna. With Signal Generator set at 1500 Kcs, tune in signal and adjust RF trimmer C201 for maximum output.
5. With Signal Generator set at 600 Kcs, tune in signal and adjust antenna coil L201 for maximum output.
6. Repeat Step 4.

FM RADIO ALIGNMENT

1. Switch Function Switch to FM position. Set Signal Generator to 10.7 mcs. with 30% AM modulation at 400 cycles. Apply Signal to grid of V103 through .01 mfd capacitor. Set VTVM to low DC range and connect between chassis and negative end of C126.
2. With a minimum of input signal applied, adjust bottom of T103 for maximum reading.
3. Signal Generator as in step 1, but with output at maximum. Connect VTVM between chassis and junction of R114 and C122. Adjust top of T103 for zero meter reading. Reading can be swung positive or negative from this setting.
4. Connect VTVM and set Signal Generator as in step 1, but connect output test clip to body of C110 (loose capacitive coupling). Adjust top and bottom of T102, top and bottom of T101 for maximum reading on VTVM.
5. Connect Signal Generator (with 400 cycle modulation at 22.5 Kcs. deviation) to FM antenna terminals. Set Generator and Receiver to 105 mcs. and adjust FM oscillator trimmer C112 to set oscillator.
6. Adjust RF trimmer C106 for maximum output at 105 mcs.



Sparton 23M4 General Information



DIAL CORD ARRANGEMENT
(FRONT VIEW SELECTOR CLOSED)

