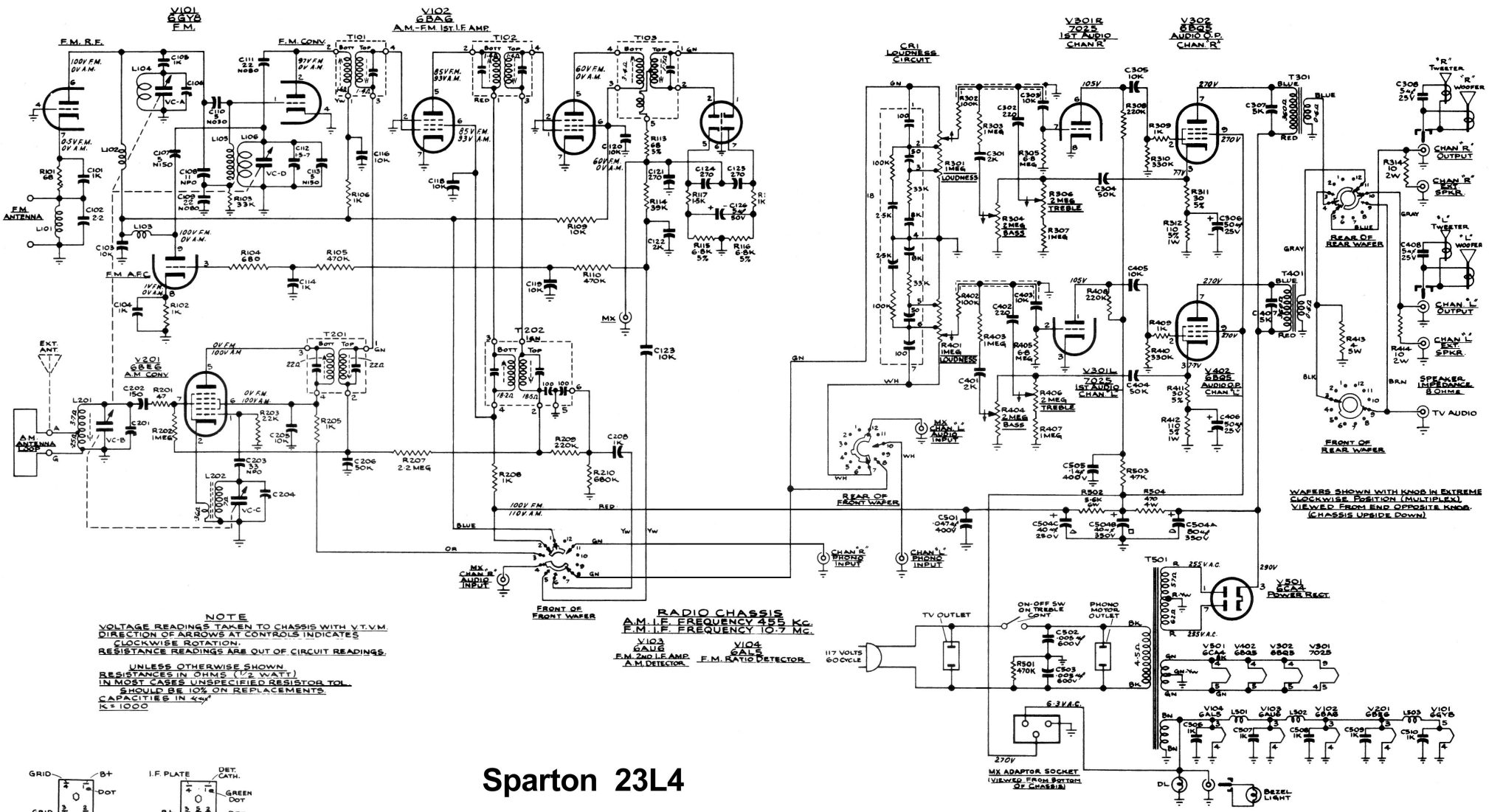


NOTE

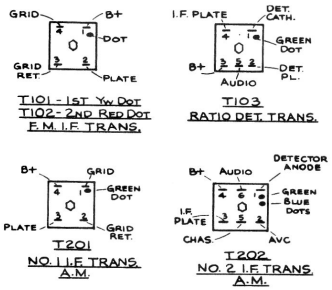
VOLTAGE READINGS TAKEN TO CHASSIS WITH V.T.V.M.
DIRECTION OF ARROWS AT CONTROLS INDICATES CLOCKWISE ROTATION.
RESISTANCE READINGS ARE OUT OF CIRCUIT READINGS.

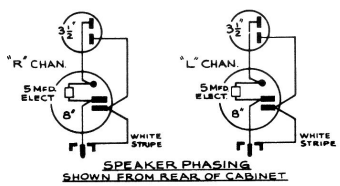
UNLESS OTHERWISE SHOWN
RESISTANCES IN OHMS (1/2 WATT)
IN MOST CASES UNSPECIFIED RESISTOR TOL. SHOULD BE 10% ON REPLACEMENTS.
CAPACITIES IN μμf
K = 1000

RADIO CHASSIS

A.M. I.F. FREQUENCY 455 Kc.
F.M. I.F. FREQUENCY 10.7 Mc.

Sparton 23L4





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

A M RADIO ALIGNMENT

- Function Switch to A M position.

1. - Connect Signal Generator between A M antenna terminal and chassis. Set Generator to 455 Kcs.

   Connect output meter (low AC volts scale) across one of the speaker voice coils.

   Remove A M loop antenna to reduce noise pickup.

2. - Detune 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 A M 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.

F M RADIO ALIGNMENT

- Function Switch to F M position.

1. - Set Signal Generator to 10.7 mcs with 30% A M modulation at 400 cycles. Apply signal to grid of V103 through .01 mfd capacitor. Set VTVM on 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.

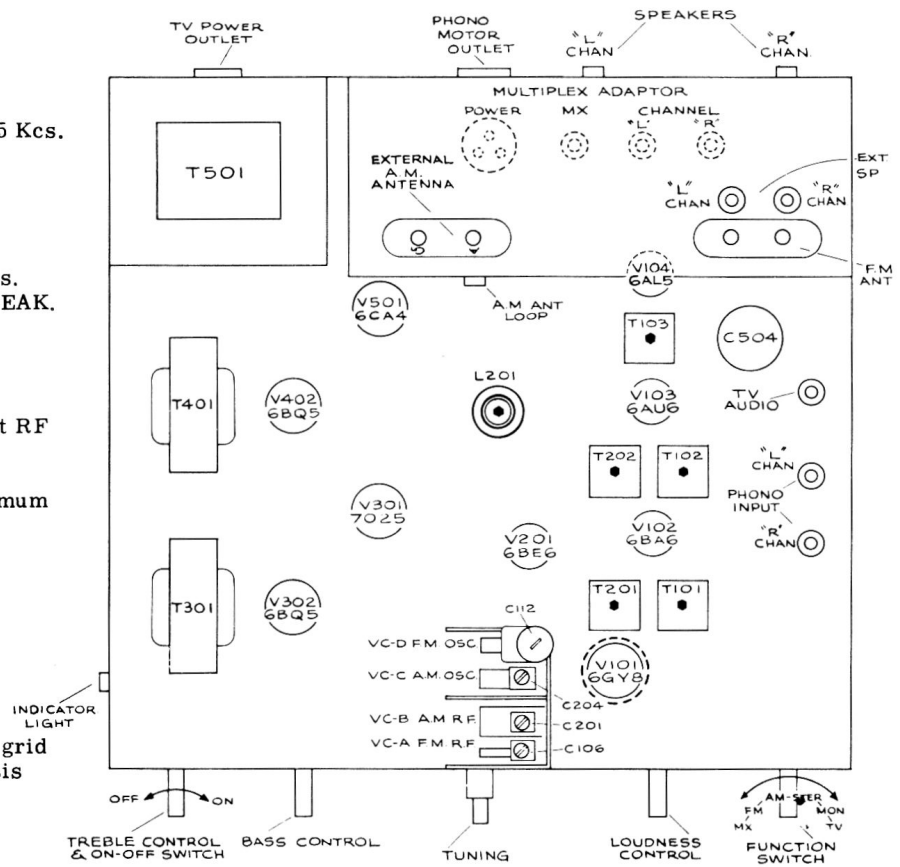
3. - Signal Generator as in step 1, but with ouput at maximum. Connect VTVM between chassis and junction of R114 and C122. Adjust top of T103 for zero meter reading. Reading can be swung positive or negative from this setting.

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 F M antenna terminals. Set Generator and Receiver to 105 mcs.

   Adjust C112 to set oscillator.

   Adjust RF trimmer C106 for maximum output.



TOP VIEW OF CHASSIS

Sparton 23L4 Alignment & Chassis Layout