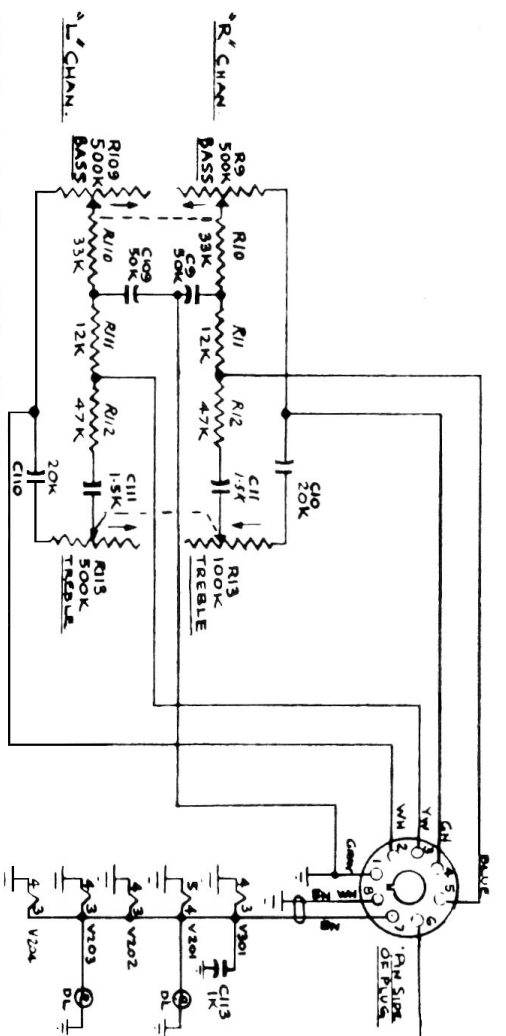
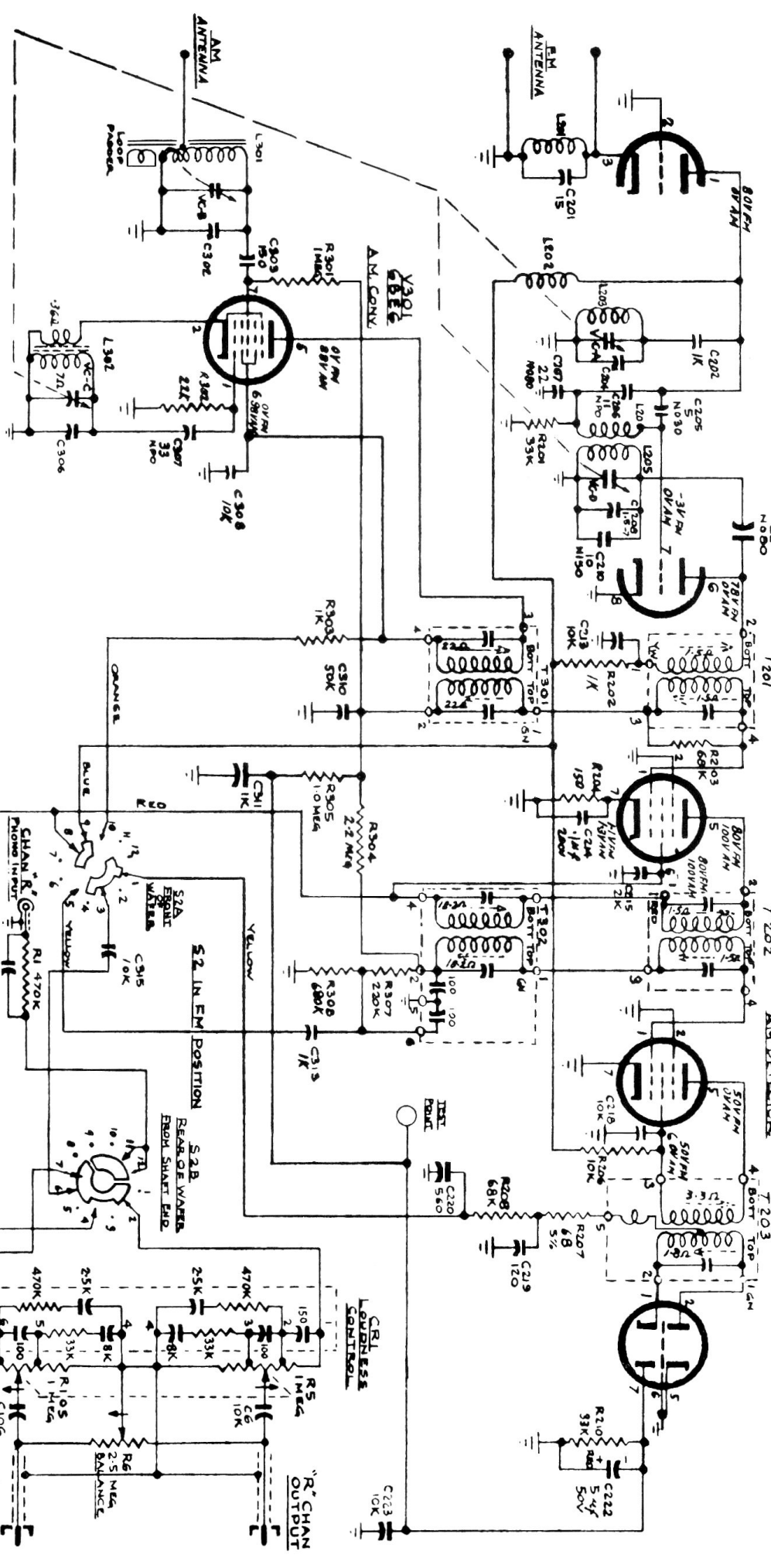


V201
6AG6
EM CONV

V202
6BA6
AM-FM 1ST I.F. AMP

V203
6AV6
FM 2ND I.F. AMP
AND DETECTOR

V204
6AL5
FM RADIO DETECTOR



Sparton Model 12K5 Tuner Chassis

— 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)

— CAPACITIES IN μ F (50V)

— K = 1000

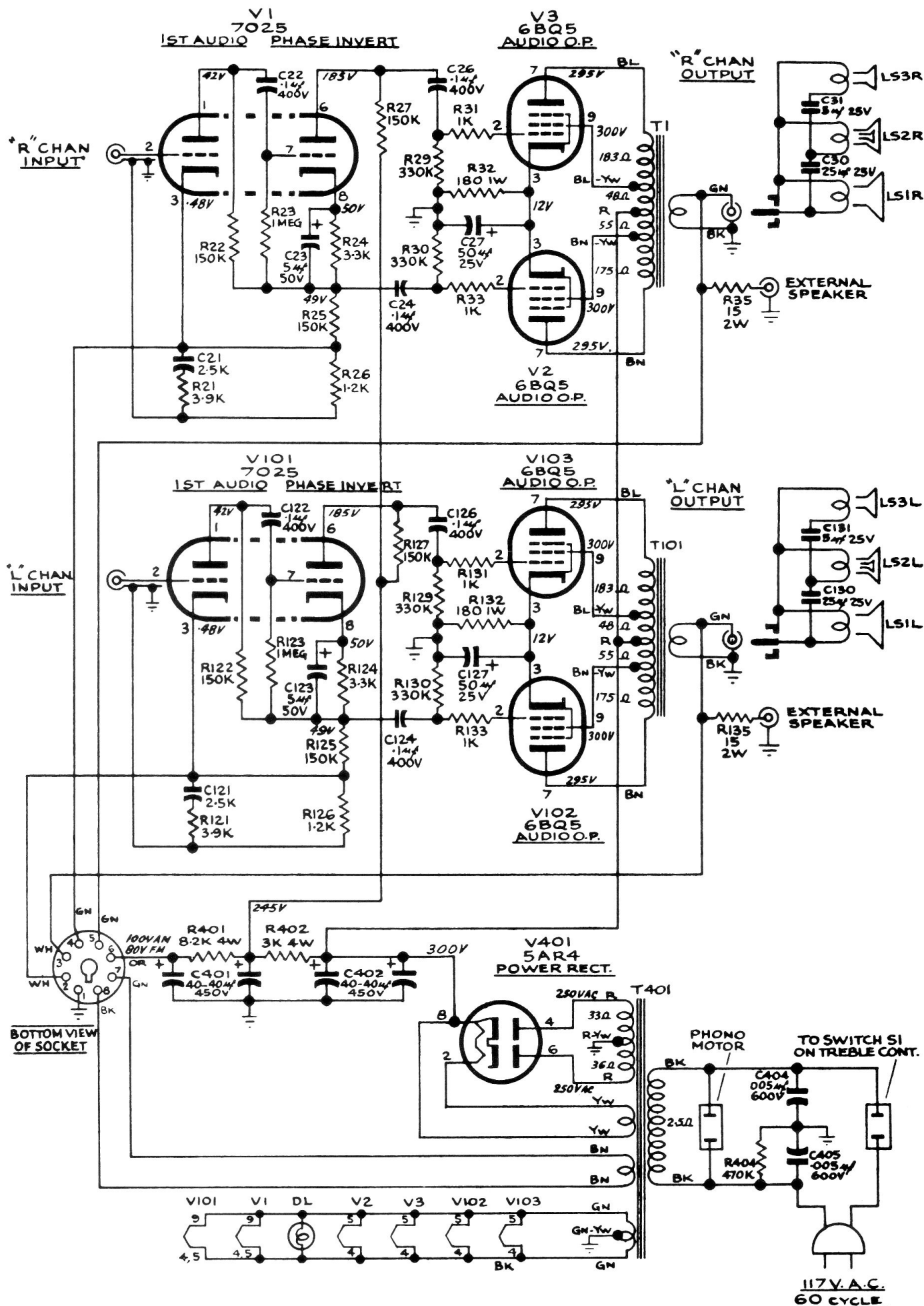
— A.C. SWITCH

— ON TREBLE CONTROL

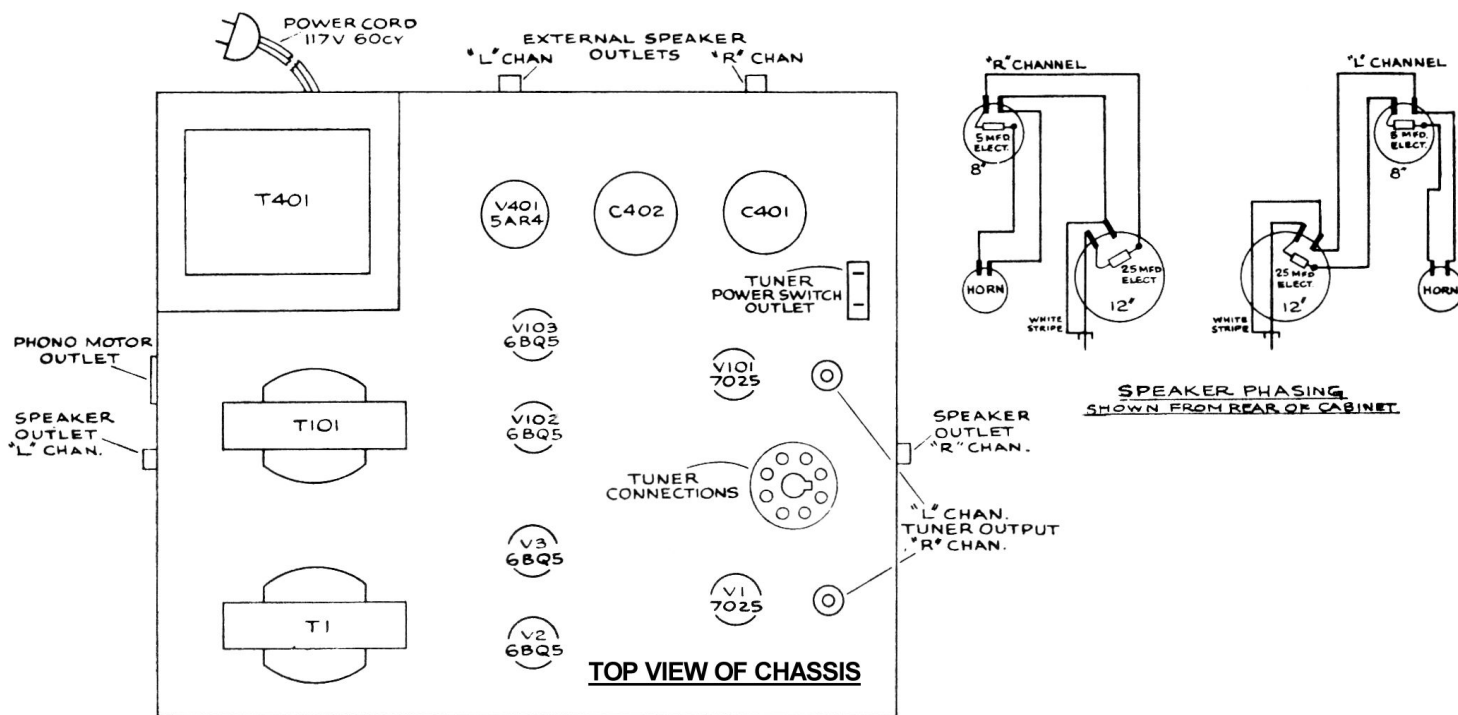
— TO SWITCH

— OUTLINE

— AMP. CONT.



Sparton 12K5 Alignment & Amplifier Chassis



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

AM ALIGNMENT PROCEDURE Set Function Switch to AM Position.

1. Connect Signal Generator, set at 455 Kcs, to AM Antenna Terminal, and connect output meter across speaker voice coil on either "L" or "R" Channel.
2. Set tuning capacitor to minimum capacity and adjust IF transformer T302 bottom, then top; T301 bottom, then top for maximum output.
3. With tuning capacitor at minimum capacity and Signal Generator at 1610 Kcs, adjust trimmer C306 to set oscillator. (Tuning range 535 Kcs to 1610 Kcs).
4. With Signal Generator set at 1500 Kcs, tune in signal and adjust trimmer C302 for maximum output.

LOOP PADDER - (shorted turn on loop stick). Adjusted for optimum loop performance at factory.

Field adjustment usually unnecessary.

5. With Signal Generator and dial set at 600 Kcs, adjust loop padder for maximum output.
6. Repeat step 4.

FM ALIGNMENT PROCEDURE Set Function Switch to FM Position.

1. Set Signal Generator to 10.7 mcs with 30% AM modulation at 400 cycles. Apply signal to grid of V202 through .01 mfd capacitor. Set V.T.V.M. on low DC range and connect across R210.
2. Adjust bottom of T203 and top and bottom of T202 for maximum reading with minimum of signal applied.
3. Connect two 100K ohm resistors in series across R210 and connect V.T.V.M. from junction of 100K ohm resistors to junction of R208 and C220. With maximum signal applied, adjust top of T203 for zero meter reading. Meter reading can be swung positive and negative from this setting.
4. Apply minimum 10.7 mc signal to FM antenna terminals and adjust top and bottom of T201 for maximum DC reading. (V.T.V.M. across R210).
5. Connect FM Signal Generator (with 400 cycles modulation at 22.5 Kc deviation) to FM Antenna Terminals. Set Generator to 105 mcs and tune receiver to 105 mcs on dial. Adjust C208 to set oscillator.
6. Adjust RF trimmer C204 for maximum output at 105 mcs.

12K5 Tuner Chassis Layout, etc.

