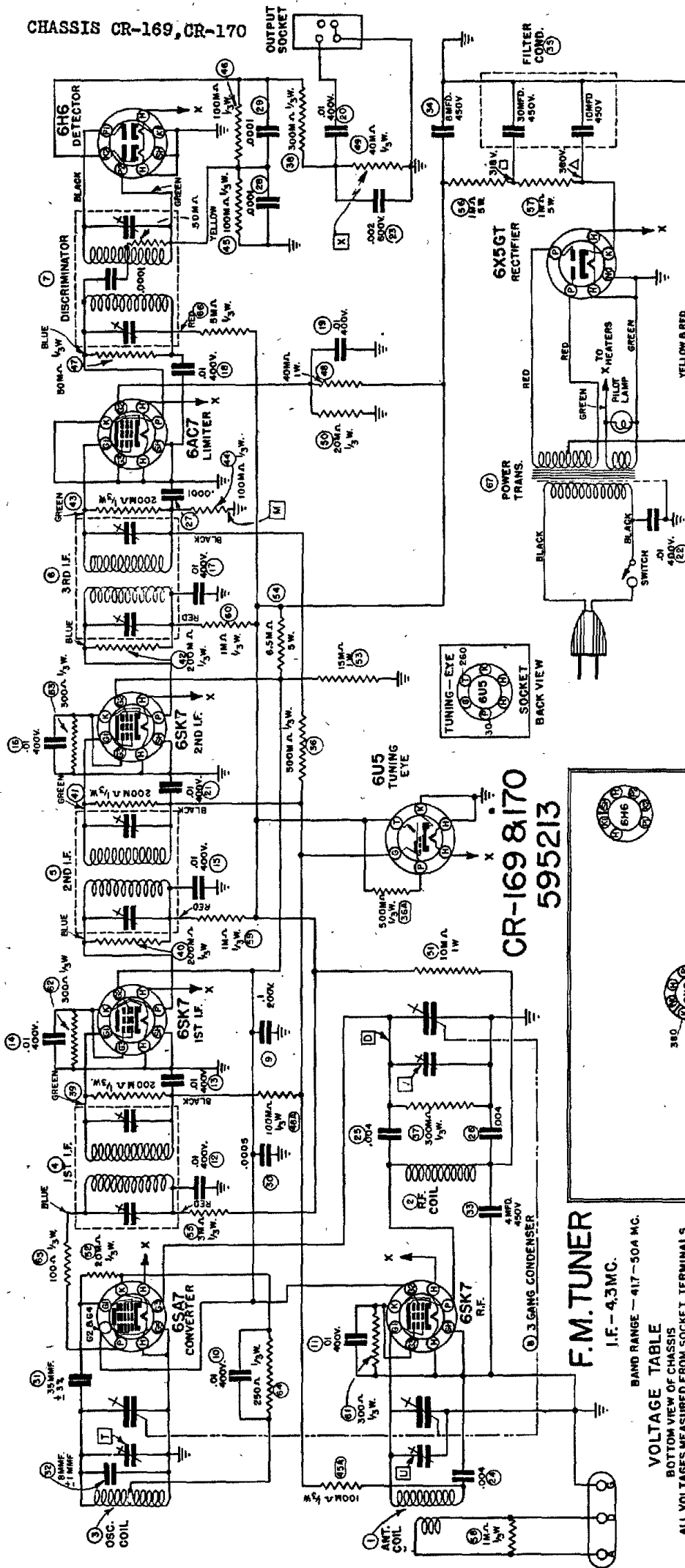


CHASSIS CR-169, CR-170



CR-169 & 170
595213

F.M. TUNER
I.F. - 4.3 MC.
BAND RANGE - 417 - 504 MC.

VOLTAGE TABLE

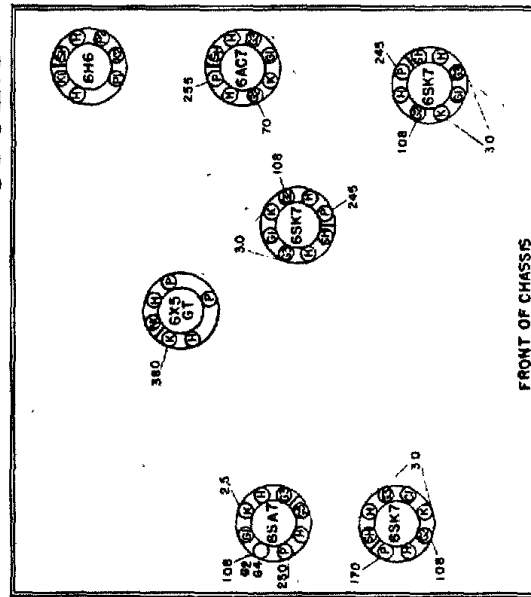
BOTTOM VIEW OF CHASSIS
ALL VOLTAGES MEASURED FROM SOCKET TERMINALS
TO GROUND WITH A 1000 OHM PER VOLT VOLT-METER
ALL HEATERS (H) 6.3V. A.C.
MEASURE CATHODES (K) EXCEPT 6X5GT ON 30V. SCALE
ALL OTHERS ON 600V. SCALE
LINE VOLTAGE 117V. A.C.

PRIMARY VOLTAGE 117 v. 50-60 cycles

POWER CONSUMPTION 70 watts

TUNING RANGE 41.7 - 50.4 MC

IF PEAK 4.3 MC



FRONT OF CHASSIS

ALIGNMENT PROCEDURE

Although it is most convenient to align this receiver with a frequency-modulated oscillator, a satisfactory job can also be done with an accurately-calibrated signal generator or oscillator covering a range in the vicinity of 4.3 megacycles. The object of alignment is to adjust the I.F. trimmers so that the I.F. system has a pass band from 4.2 to 4.4 megacycles, and then to adjust the discriminator transformer to cover exactly the same band. Proceed as follows:

1. Connect the "high" side of the generator output to the grid (G3) of the 6SA7 converter, and the "low" side of the generator to the ground of the chassis. The connection to the grid is most easily made by connecting to the stator or middle condenser in the tuning gang. If it is found that the generator does not furnish enough signal, it will be necessary to make this connection directly to the control grid of the 6SA7 tube and to disconnect the R.F. coil from this grid. This point is indicated at "D" on the schematic diagram.
2. Connect a 0-50 or 0-200 microammeter in series with the "ground" end of the 100,000 ohm resistor (44). This is point "M" on the diagram. Connect the positive terminal of the meter to ground. This will measure the grid current of the 6AC7 tube. A reading of 30 to 100 microamperes is all that should be expected at this point. If an Analyst or a D.C. electronic voltmeter is available, it can be connected directly across this 100,000 ohm resistor (62) without disconnecting the resistor. This measures the limiter grid bias voltage. A reading of 3 to 10 volts should be considered normal.
3. Set the generator at 4300 kc. and align the I.F. trimmers for maximum grid current in the 6AC7 tube as indicated by the microammeter or voltmeter.
4. The I.F. stages are now aligned. Remove the microammeter and re-connect the 100,000 ohm resistor (44) as it was before.