

Figure 52. Sch

Note: This schematic applies only to chassis

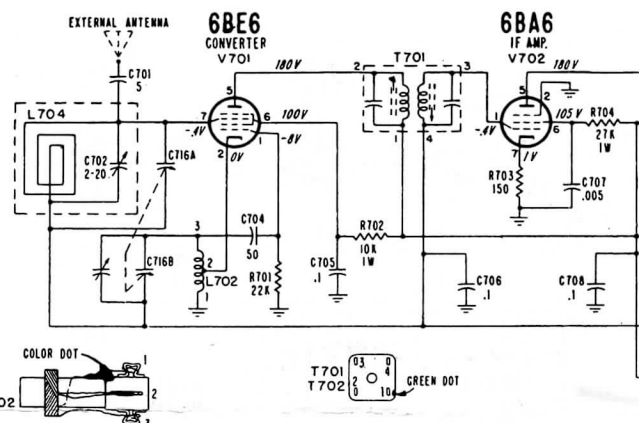
VOLTAGE DATA
(Voltages given on schematic)

- TV voltages taken with function switch on "TV" position. PICTURE control turned fully clockwise. CHANNEL control set on an unused channel. Other front controls set at approximately half rotation. Vert. Lin. and Height set at approximately half rotation. TV antenna disconnected from set with terminals shorted.
- Radio voltages V701 and V702 taken with function switch on "Rad" position; voltages measured from underside of tube sockets. When measured from top of tube sockets (with tube removed), B plus voltage at pins 5 and 6 of V701 and V702 will be approximately 275 volts.
- B plus voltages at V203 and V204, will be slightly higher when set is switched to "Rad" position. Voltages marked with an asterisk * will vary widely with control setting.
- Line voltage 117 volts AC.
- Voltages measured with a vacuum tube voltmeter between tube socket terminals and chassis, unless otherwise indicated.
Voltages at V101, V102, V306 measured from top of socket with tube removed.

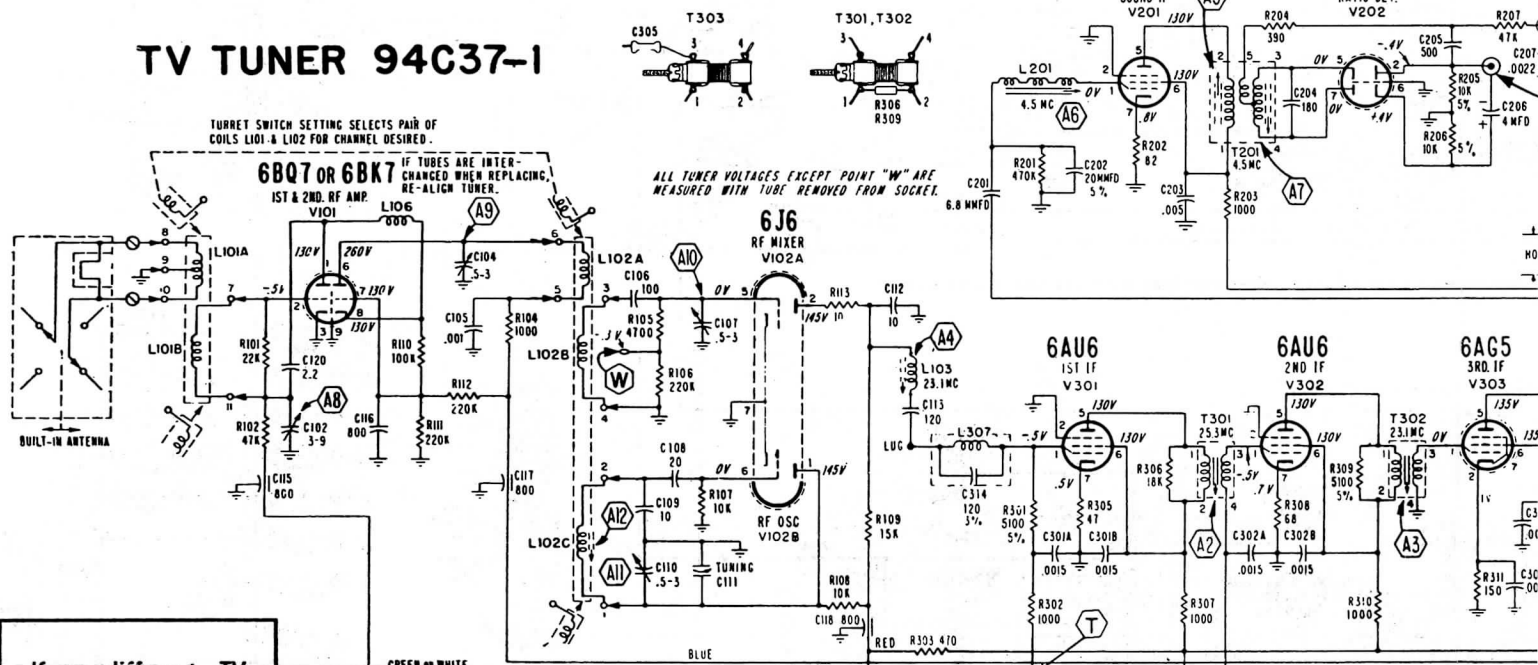
CAUTION

Pulsed high voltages are present on the cap of V406, and on the filament terminals and cap of the 1B3CT tube. NO ATTEMPT SHOULD BE MADE TO TAKE MEASUREMENTS FROM THESE POINTS WITHOUT SUITABLE TEST EQUIPMENT.

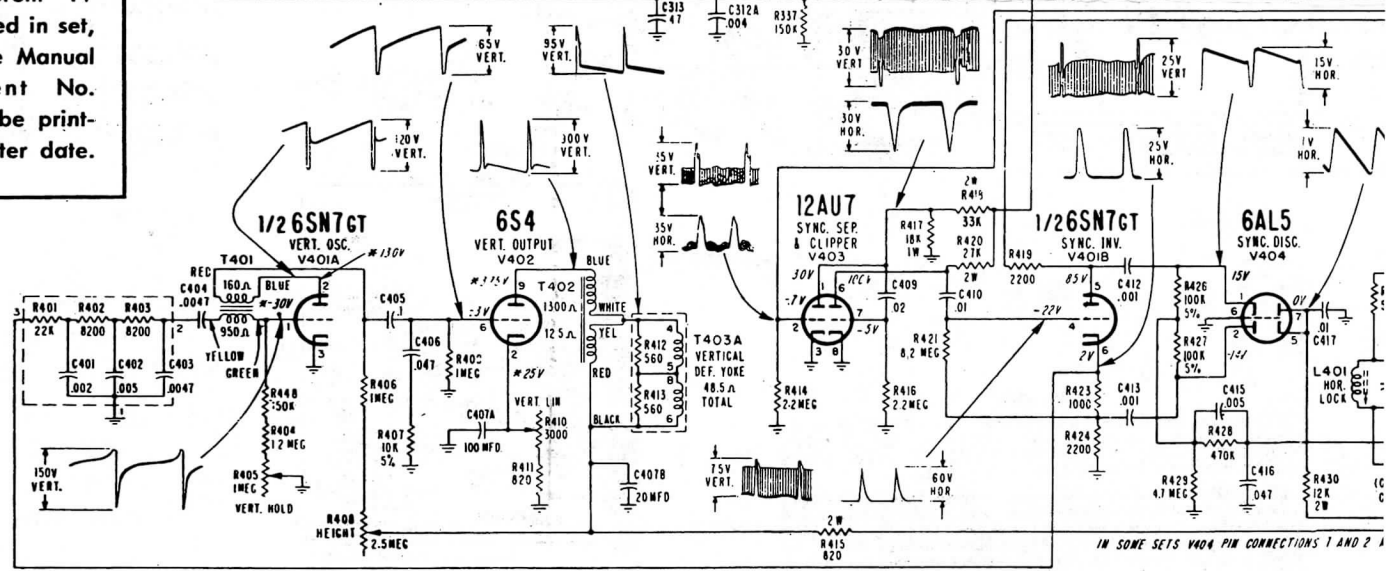
Picture tube 2nd anode voltage can be measured from the 2nd anode connector and should be taken only with a high voltage instrument such as a kilovoltmeter or other meter with a high voltage probe. 2nd anode voltage for 21W1, 21Z1 and 21Z1A chassis is approximately 14.5 KV. Proper filament voltage check of the 1B3CT tube may be made by observing filament brilliancy as compared with that obtained with a 1.5 volt dry cell battery.



TV TUNER 94C37-1



If a different TV Tuner is used in set, see Service Manual Supplement No. S362C to be printed at a later date.



IN SOME SETS V404 PIN CONNECTIONS 1 AND 2

2. Schematic for 21W1, 21Y1, 21Z1 and 21Z1A Television and Radio Chassis.

chassis stamped Run 20 to Run 26.

WAVEFORM DATA (Waveforms given on schematic)

Waveforms taken with picture control set fully to the right, all other controls set for normal picture (in sync).

Waveforms at video and sync stages obtained with transmitted signal input to receiver.

The oscilloscope sweep is adjusted for 30 cycles (which is one-half of the vertical frequency), or for 7875 cycles (which is one-half of the horizontal frequency) so that two pulses appear on the screen.

The peak-to-peak voltage readings shown are subject to some variations due to response of the oscilloscope and parts tolerances.

