



## REPAIR PARTS and SERVICE INSTRUCTIONS

### CODE CHANGES FOR CHASSIS 1-108

The following code changes have been made in the 1-108 chassis.

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| <p>C19 B+ Fuse F1 from 3/10 Ampere to 3/8 Ampere<br/>B- Fuse F3 from 3/10 Ampere to 1/2 Ampere</p> <p>C20 Chassis uses a B19 or higher bridge</p> <p>C21 R119 in cathode of V16 - 12AX7 Horizontal Sync Separator from 680,000 Ohm to 750,000 Ohm</p> <p>C22 Add C222 - .000025 Mfd. - 1000 V. Capacitor from plate (pin #5) to grid (pin #1) of V18 - 6AQ5 - Vertical Output tube.<br/>C159 - .00025 Mfd. grid bypass capacitor for V15 - 12AU7 Vertical Oscillator tube returned to cathode (pin #3) instead of ground</p> | <p>C23 B+ Fuse F1 from 3/8 Ampere to 1/4 Ampere Slow Blow</p> <p>Bridge changes</p> <p>B19 Add R246 - 100 Ohm resistor between screen grid (pin #4) of V22 - 6BQ6GT Horizontal Output tube and junction of R245 - 10,000 Ohm and C221 - .05 Mfd.</p> <p>B20 New deflection yoke with Horizontal Yoke coils in series instead of parallel, tapped Horizontal Output choke and R247 1000 Ohm resistor added between tap on L66 Horizontal Output choke and junction of L67, L68 Horizontal Deflection coils.</p> |
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An add and delete Repair Parts List is given below for the above changes referring to the complete (C18, B18) Repair Parts List given on pages 50, 51, 52, 53, 54 of Supplement 2 to Bulletin 9-2.

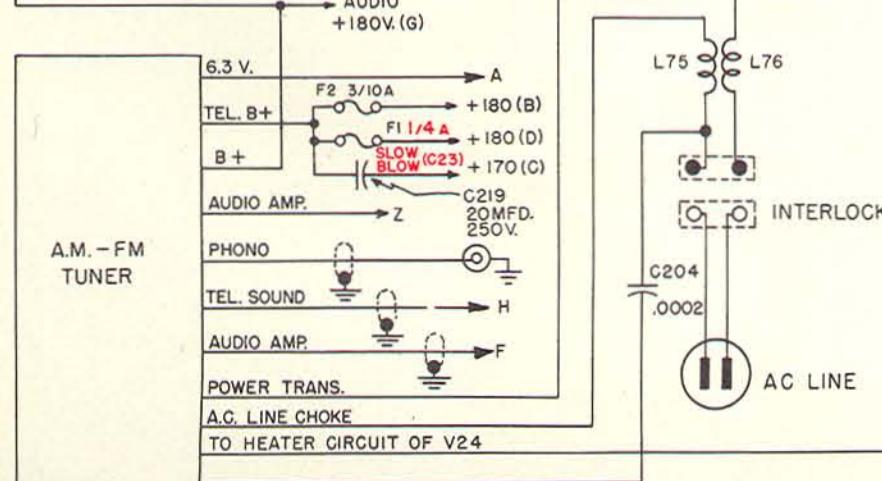
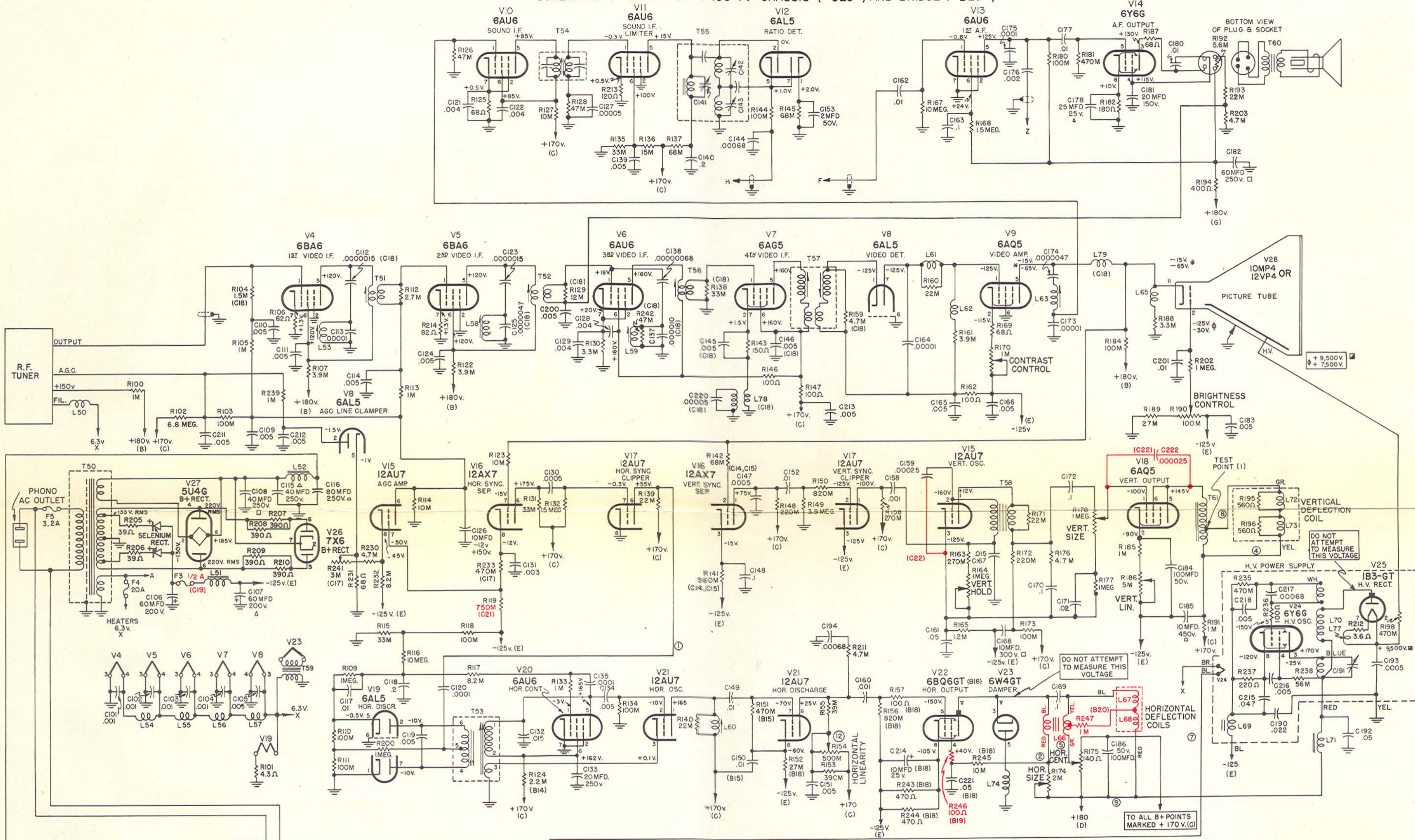
### REPAIR PARTS LIST

<u>SCHEMATIC LOCATION</u>	<u>SERVICE PART NUMBER</u>	<u>DESCRIPTION</u>
DELETE		
F1	191-0010	Fuse - 3/10 Amp. - 250 V. (clip-in)
F3	191-0009	Fuse - 3/10 Amp. - 250 V. (wire-in)
R119	181-06845	Resistor - 680,000 Ohm - 1/2 W.
L67, L68, L72, L73	100-0001	Yoke - Vertical & Horizontal Deflection
ADD		
C222	169-0012	Capacitor - Mica - .000025 Mfd. - 1000 V.
F1	191-0014	Fuse - 1/4 Amp. Slow Blow - 250 V. (clip-in)
F3	191-0013	Fuse - 1/2 Amp. - 250 V. (wire-in)
R246	181-0101	Resistor - 100 Ohm - 1/2 W.
R247	181-0102	Resistor - 1,000 Ohm - 1/2 W.
R119	181-07545	Resistor - 750,000 Ohm - 1/2 W.
L67, L68 L72, L73	100-0002	Yoke - Deflection - Horizontal - Vertical



FIGURE 34 - SCHEMATIC DIAGRAM OF 1-108 CHASSIS C23 - BRIDGE B20

**SCHEMATIC DIAGRAM FOR I-108 TV CHASSIS ( C23 ) AND BRIDGE ( B20 )**



\* CONTRAST CONTROL AT MAXIMUM      φ BRIGHTNESS CONTROL AT MAXIMUM      ∇ HIGH PEAK VOLTAGE OF SHORT DURATION (APPROX. 2,000 V.) MAY DAMAGE METER USED FOR THIS MEASUREMENT

HEATERS NOT SHOWN CONNECT TO 6.3V. X AND GROUND

ALL VOLTAGES MEASURED WITH A SYLVANIA POLYMER TYPE 221 (VACUUM TUBE VOLTMETER) UNLESS OTHERWISE STATED. ANTENNA DISCONNECTED & NO SIGNAL INPUT. LINE POTENTIAL 117 VOLTS 60 CYCLES AC SUPPLY. BRIGHTNESS & CONTRAST CONTROLS AT MINIMUM UNLESS OTHERWISE STATED.

C AND B NUMBERS IN BRACKETS INDICATE CODE CHANGE NUMBERS OF ITEMS.

(UNFUSED HEATERS)

USE HIGH VOLTAGE MULTIPLIER PROBE WITH SYLVANIA POLYMER FOR ALL HIGH VOLTAGE MEASUREMENTS.

THE H.V. AND SCANNING SECTION CHASSIS IS CONNECTED TO THE LOWER CHASSIS BY THE 14 PIN PLUG AND SOCKET SHOWN TO THE LEFT. THE PIN CONNECTIONS ARE ELECTRICALLY IDENTIFIED BY CIRCLED NUMBERS THROUGHOUT THE SCHEMATIC DIAGRAM.

1 2 3 4 5  
0 6 7 8 9 10 11 12 13 14

HEATERS 6.3V. X

125V ∇ 170V. (C)

BOTTOM VIEW

**PRICE 15¢**

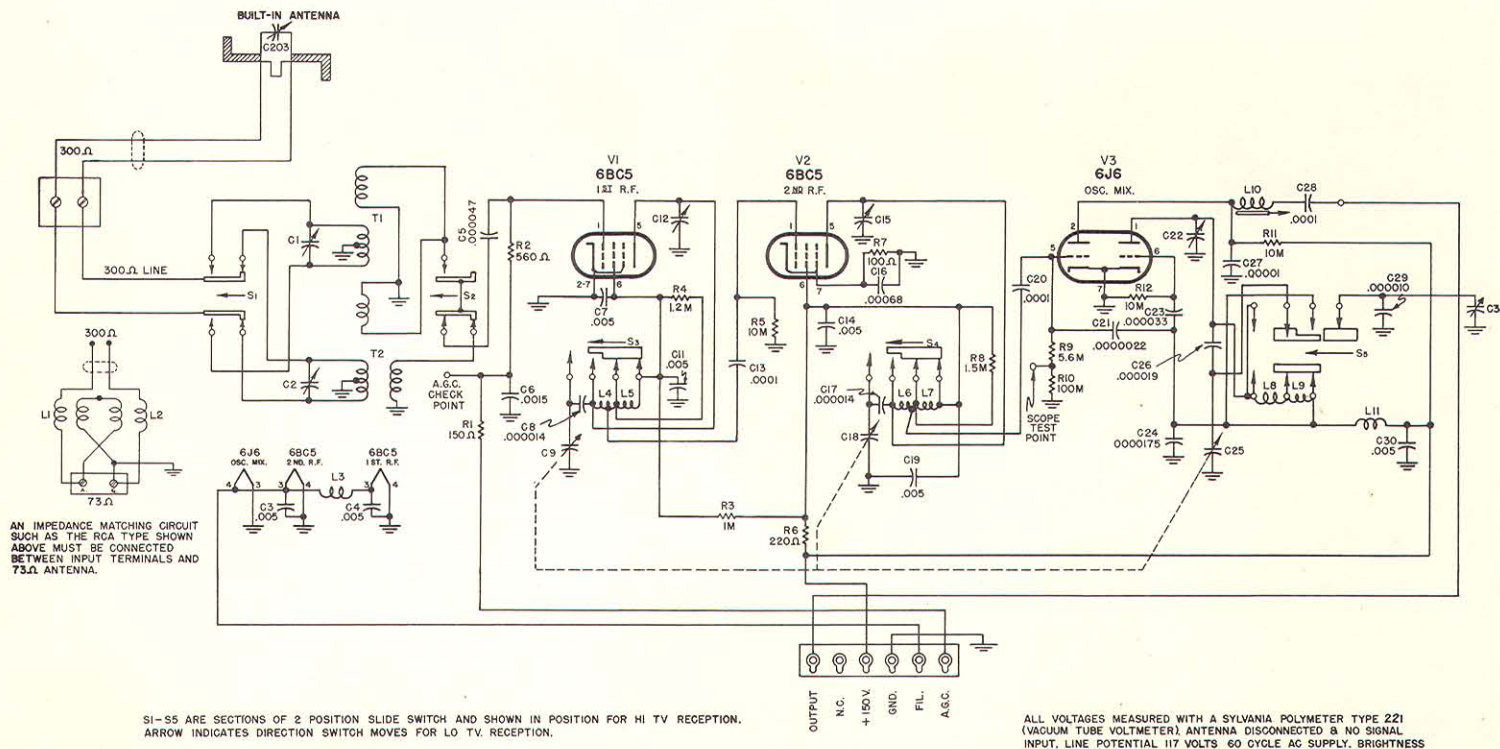


FIGURE 35 - R. F. TUNER FOR 1-108