

NOTE  
ENCLOSED DC VALUES  
ARE MEASURED WITH S5 CLOSED  
AND MUTING CONTROL SET TO MAX POSITION

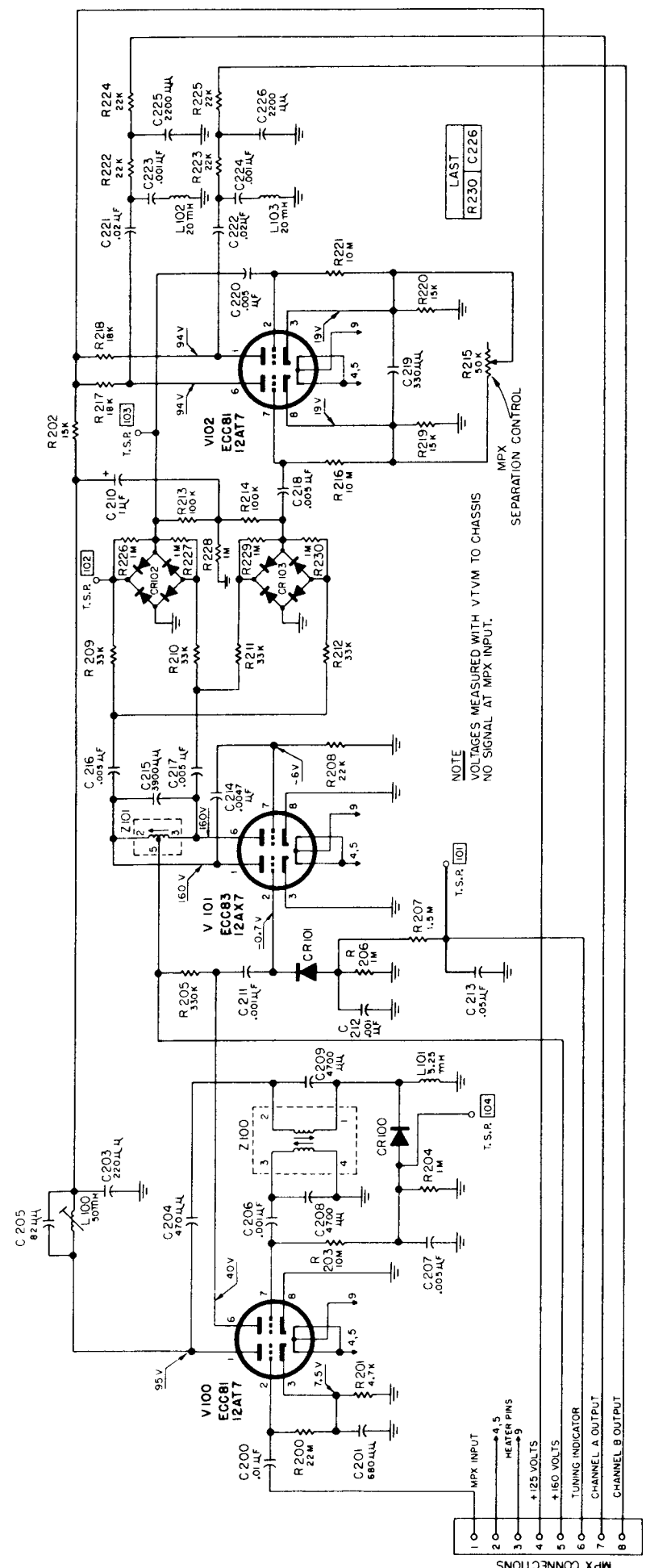
\* NOTE  
5.5V READING WHILE RECEIVING  
AN MPX STEREO STATION ONLY.

S1  
SENSITIVITY SWITCH  
SHOWN IN → AC OFF  
DISTANT  
LOCAL

S2  
SELECTOR SWITCH  
SHOWN IN → MONO  
STEREO-MONO AUTOMATIC  
STEREO-FILTER

NOTE  
CAPACITOR VALUES IN PF ARE  
EQUAL TO VALUES IN UF.

LAST  
R72 C67



LAST
R230 C226

NOTE  
VOLTAGES MEASURED WITH VTVM TO CHASSIS  
NO SIGNAL AT MPX INPUT.

SEPARATION CONTROL

- MPX CONNECTIONS
- 1 ○ MPX INPUT
  - 2 ○ HEATER PINS
  - 3 ○ HEATER PINS
  - 4 ○ HEATER PINS
  - 5 ○ HEATER PINS
  - 6 ○ +125 VOLTS
  - 7 ○ +160 VOLTS
  - 8 ○ TUNING INDICATOR
  - 9 ○ CHANNEL A OUTPUT
  - 10 ○ CHANNEL B OUTPUT

# ALIGNMENT INSTRUCTIONS

**Read These Instructions With Extreme Care Before Attempting Alignment.**

**TEST EQUIPMENT:** FM Signal Generator, DC VTVM, Oscilloscope.

**CHASSIS: 1** — For the entire alignment procedure, set the Selector Switch to Mono position, the Muting Control to OFF position, the Channel A Level Set to MAXIMUM, and connect the oscilloscope to the Channel A output.

**2** — Turn the Tuning knob maximum counterclockwise. (Dial pointer should line up with calibration mark at the beginning of the dial. Reset the dial pointer if necessary.)

**3** — Allow the tuner and test equipment at least 15 minutes warm-up time. Adjust the line voltage for 117 volts AC 50-60 cps. Use fully insulated tools: a small screw-driver for trimmer capacitors C21, C14 and C3; a K-Tran tool for Z1, Z2 and Z3; a hex tool for all L1, L6, L7, Z4, Z5 and Z6.

STEP	DIAL	SIGNAL GENERATOR			DC VTVM	ADJUST	INDICATION
		GENERATOR COUPLING	FREQ.	MOD.			
1	Set dial pointer for extreme C.C.W. position.	Pin 1, V5	10.7 MC	None	Test Point 3	Z4 Z5 Z6 top and bottom	Maximum negative voltage (below 10 volts)
2		Ungrounded tube shield of V2	10.7 MC	None	Test Point 2	Z1, Z2, Z3 top and bottom	Maximum negative voltage (below 2 volts)
3	90 MC	Two 120 ohm carbon resistors in series with generator leads to the antenna terminals.	90 MC	± 22.5 KC deviation at 400 cps.	Test Point 2	L7, L6 and L1	Adjust for maximum negative voltages and check for sine wave-form, with scope at Ch A output.
4	106 MC		106 MC	± 22.5 KC deviation at 400 cps.	Test Point 2	C21 C14 and C3	

**NOTE:** (Steps 1 and 2): Decrease signal generator output while aligning IF transformers so that the VTVM indicates not more than specified voltages. Repeat steps 3 and 4 to obtain proper dial calibration and maximum sensitivity.

