

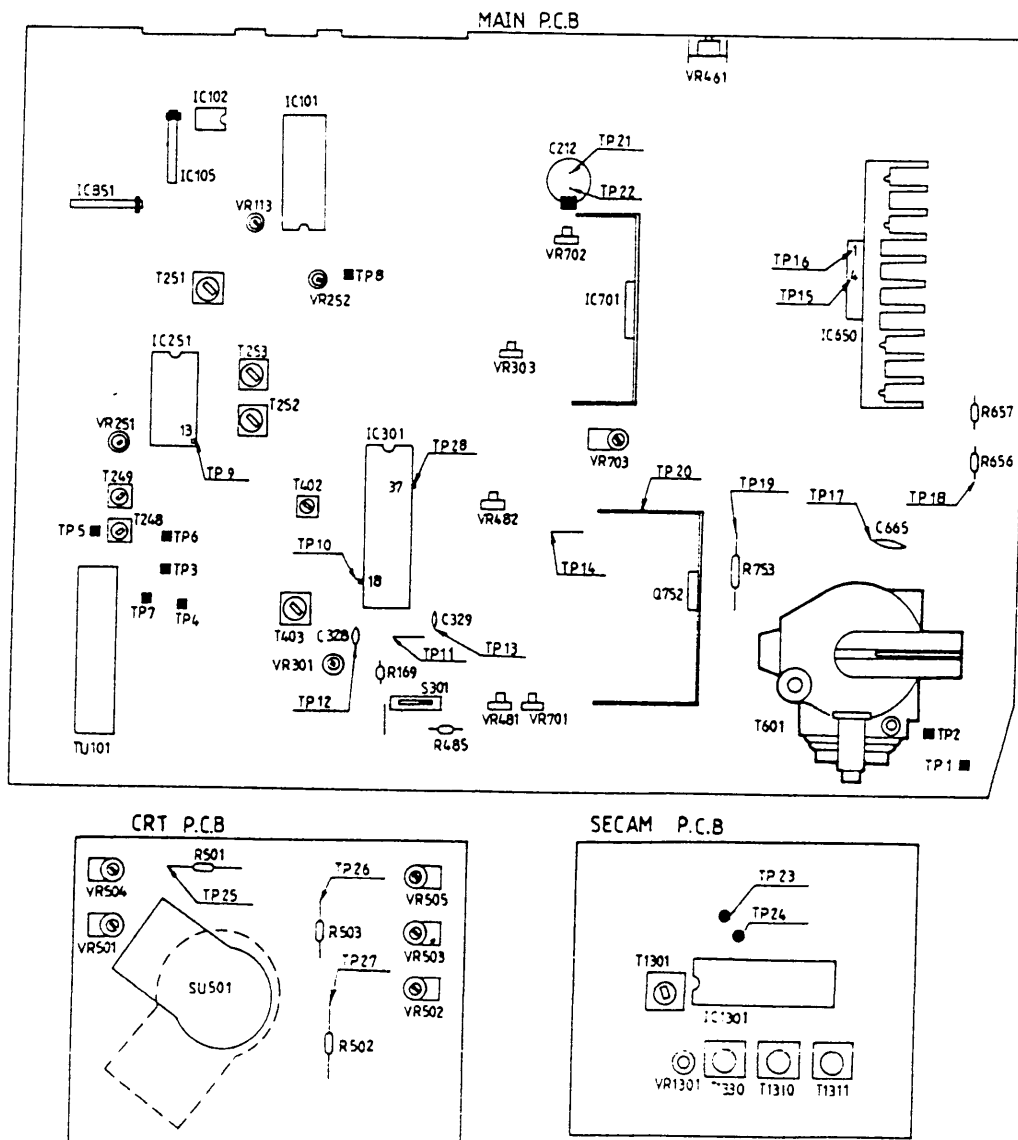
CHASSIS REMOVAL (REFER TO PAGES 13~16, 29,30)

1. Remove 6 screws (233) from cabinet back.
2. Remove 1 screw (221) from A/V Jack.
3. Remove 1 screw (230) from FBT.
4. Remove 2 screws (223) from antenna terminal plate (213).
5. Remove 2 screws (231) from front of cabinet inside control compartment.
6. Disconnect CRT socket P.C. board from CRT (301).
7. Discharge anode lead at picture tube to chassis ground through a 10 k ohm resistor.
8. Disconnect anode lead from picture tube.
9. Disconnect connectors LCN650, LCN701 and LCN851 from main P.C. board.
10. When replacing chassis, reverse the above procedure making certain that all connectors and leads are fastened in their original places.

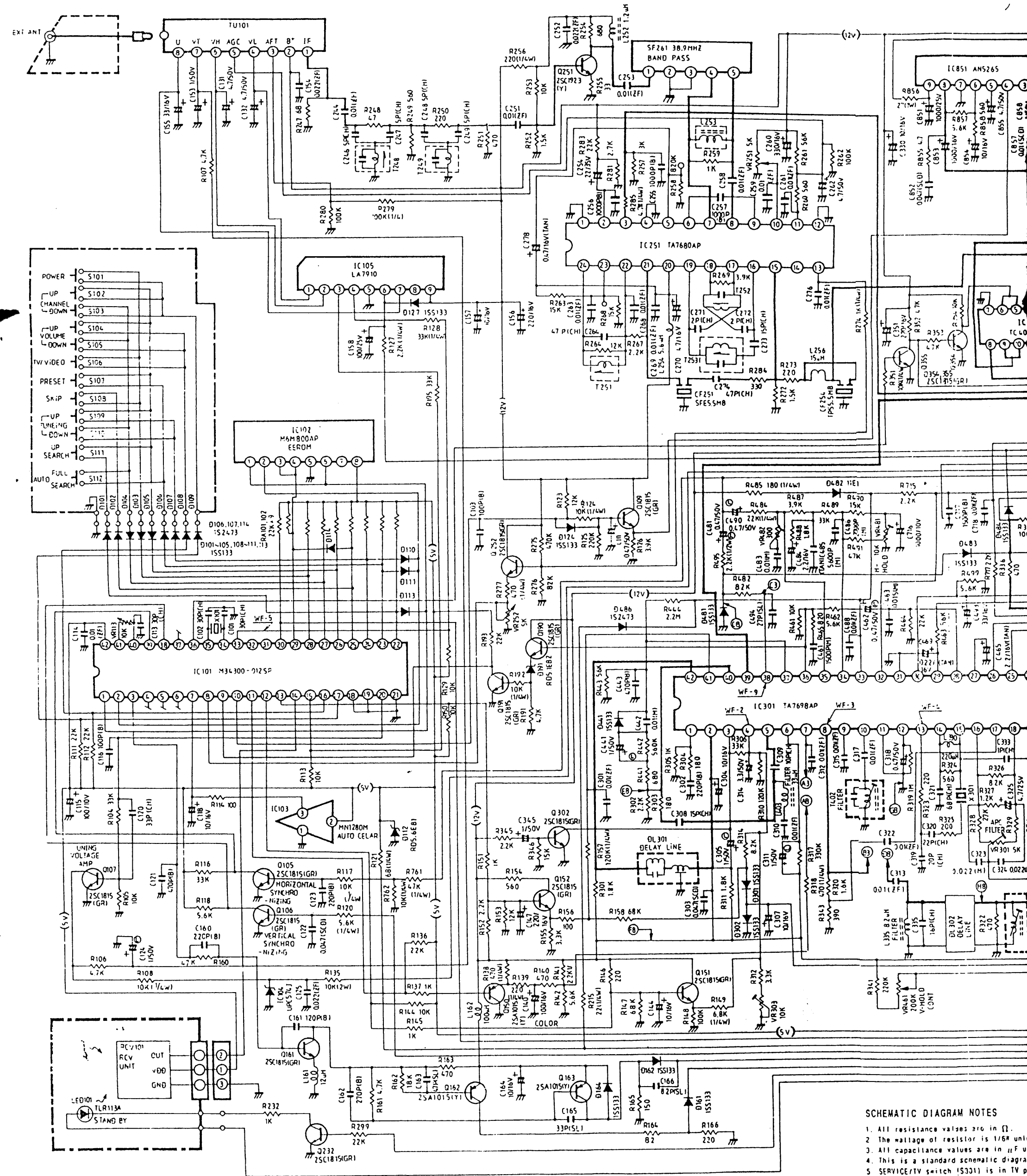
CRT REMOVAL

CAUTION: Wear shatter-proof goggles and exercise proper handling precautions when working around high vacuum picture tubes.

1. Remove chassis per instructions under CHASSIS REMOVAL.
2. Remove convergence magnet assembly (303) from neck of CRT.
3. Remove deflection yoke (302) from neck of CRT.
4. Remove 3 wedges (174) from CRT.
5. Remove 1 spring and braid wire (211) from CRT P.C. Board.
6. Lay cabinet face down on some protective material.
7. Remove 4 CRT mounting screws (245).
8. Remove CRT from cabinet front.
9. To install new CRT, reverse above procedure.
10. Perform purity and convergence adjustments.

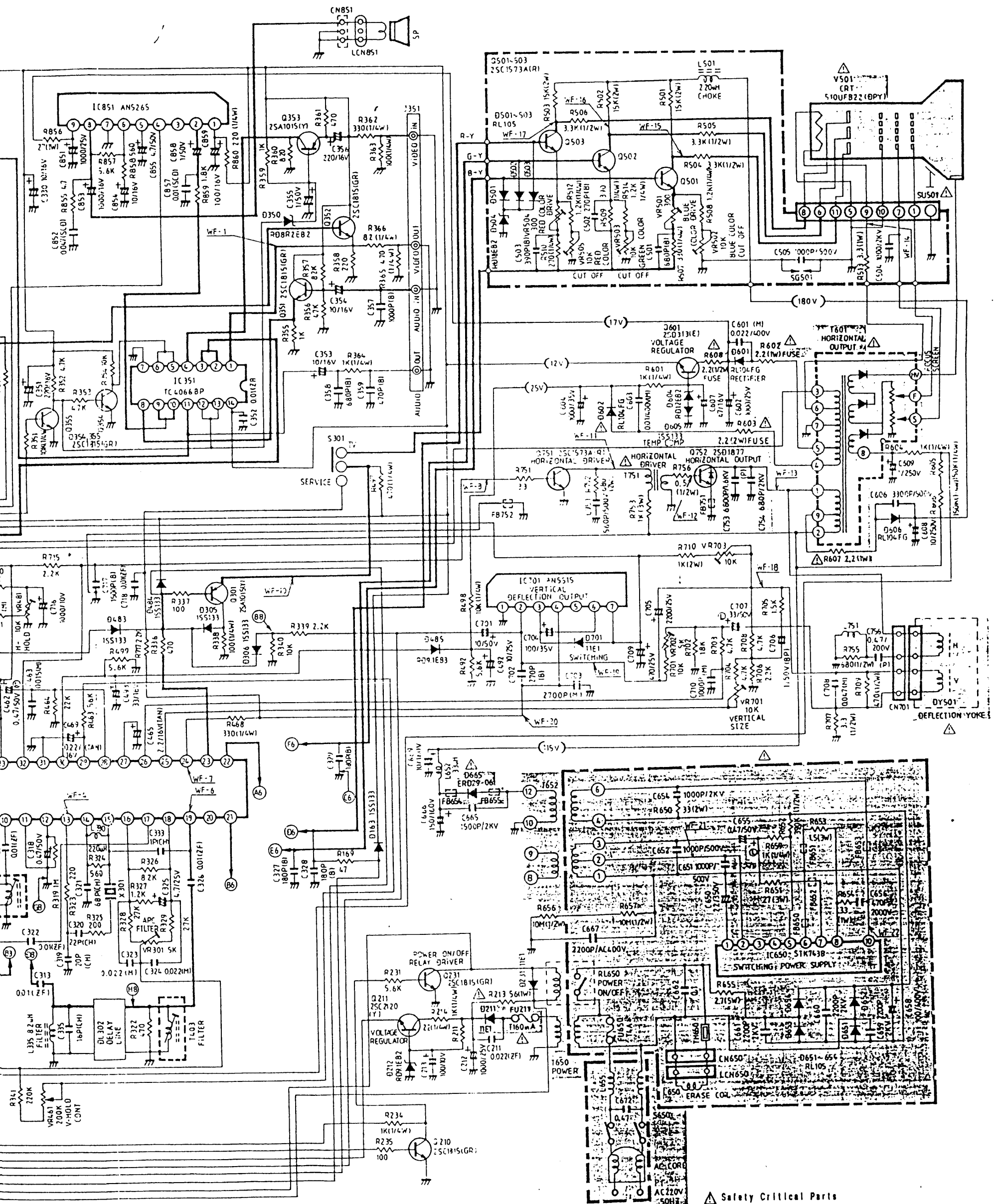


SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM NOTES

1. All resistance values are in Ω .
2. The wattage of resistor is 1/6W unless noted.
3. All capacitance values are in μF unless noted.
4. This is a standard schematic diagram.
5. SERVICE/TV switch (S301) is in TV position.



SCHEMATIC DIAGRAM NOTES

1. All resistance values are in Ω , $k\Omega$ = 1000 Ω , $M\Omega$ = 1000 $k\Omega$.
2. The wattage of resistor is 1/8W unless otherwise noted.
3. All capacitance values are in μF unless otherwise noted. pF = 10^{-6} F.
4. This is a standard schematic diagram. Some set may be modified slightly for better performance.
5. SERVICE/TV switch (S301) is in TV position.

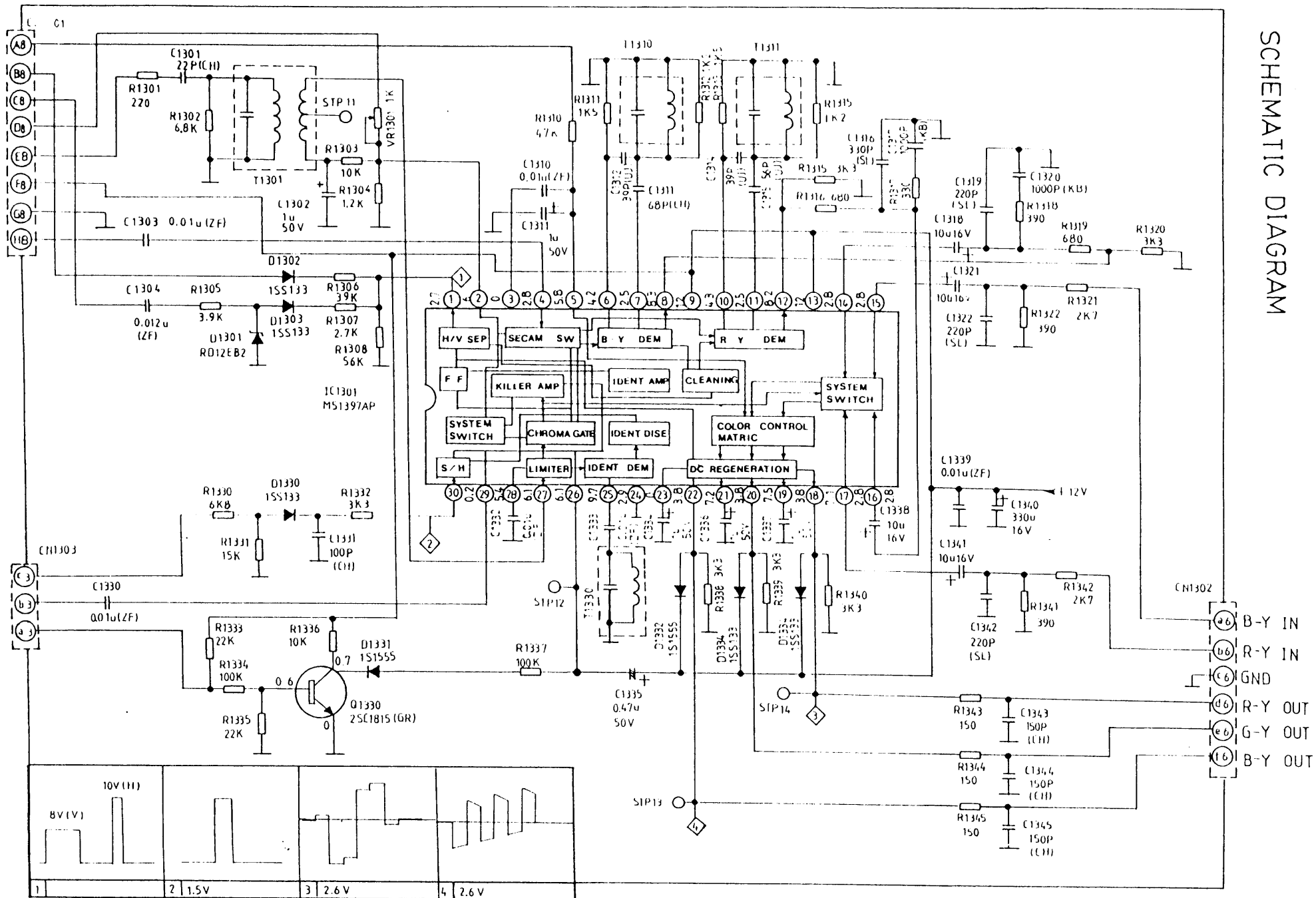
SAFETY CRITICAL COMPONENTS

THE DESIGN OF THIS RECEIVER CONTAINS MANY CIRCUITS AND COMPONENTS INCLUDED SPECIFICALLY FOR SAFETY PURPOSES FOR CONTINUED PROTECTION. NO CHANGES SHOULD BE MADE TO THE ORIGINAL DESIGN AND COMPONENTS SHOWN IN SHADED AREAS ON THE SCHEMATIC SHOULD BE REPLACED WITH EXACT FACTORY REPLACEMENT PARTS. THE USE OF UNAUTHORIZED SUBSTITUTE PARTS MAY CREATE A SHOCK, FIRE, X-RAY RADIATION, OR OTHER HAZARD. SERVICE SHOULD BE PERFORMED BY QUALIFIED PERSONNEL ONLY.

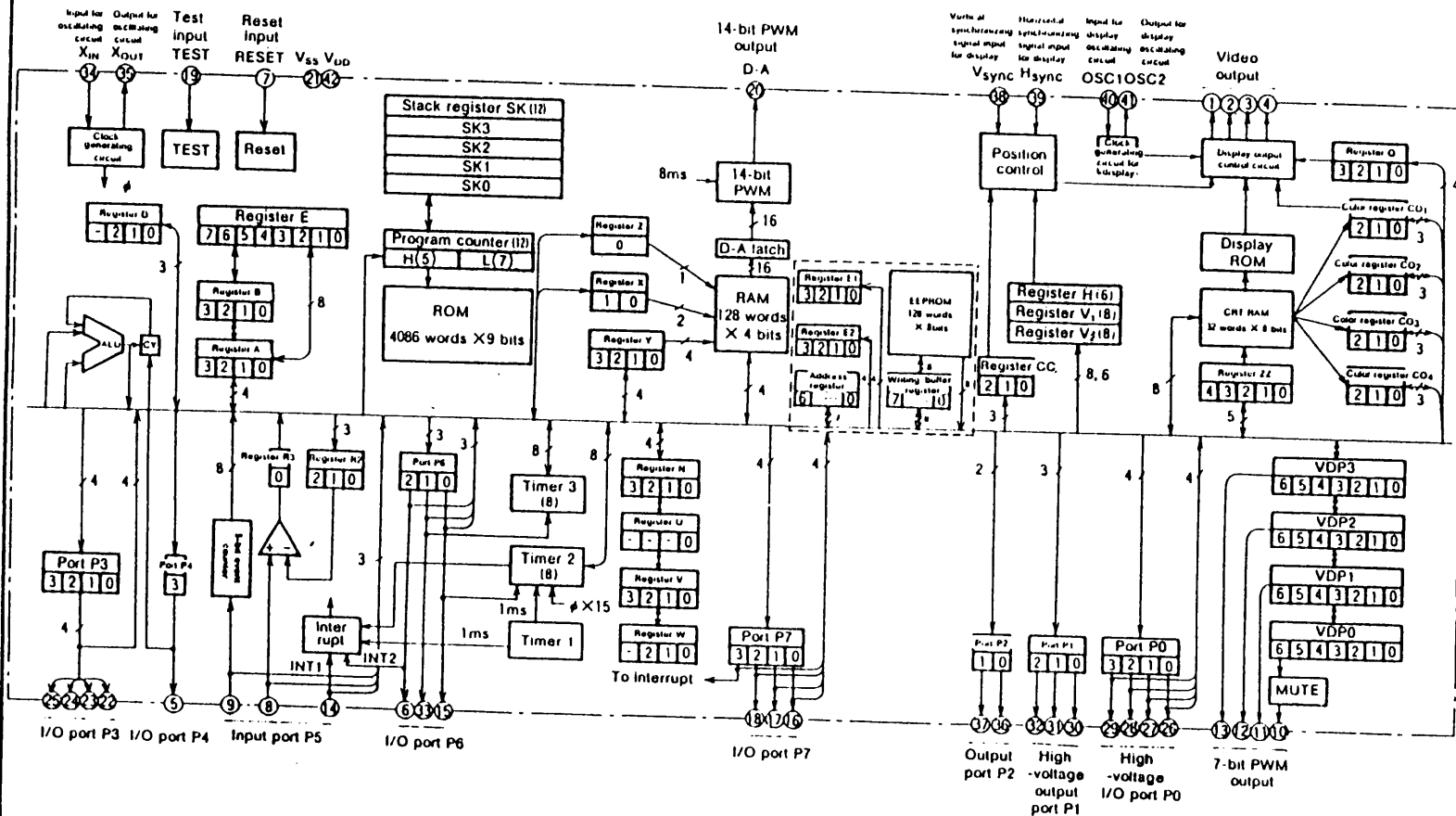
RELIABILITY AND PERFORMANCE

FOR CONTINUED RELIABILITY AND PERFORMANCE, EXACT FACTORY REPLACEMENTS ARE RECOMMENDED FOR ALL OTHER PARTS REPLACED. IF A SUBSTITUTE MUST BE USED, BE SURE ITS QUALITY AND SPECIFICATIONS ARE IDENTICAL TO THE ORIGINAL PART.

SCHEMATIC DIAGRAM



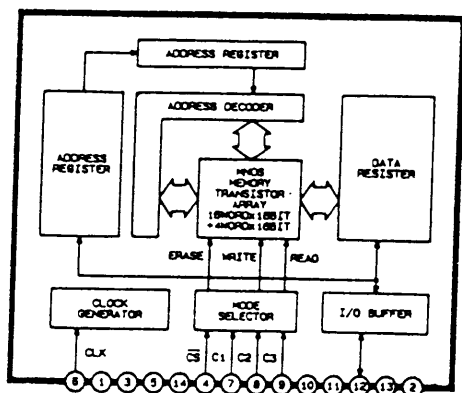
M34300M4-XXXSP BLOCK DIAGRAM



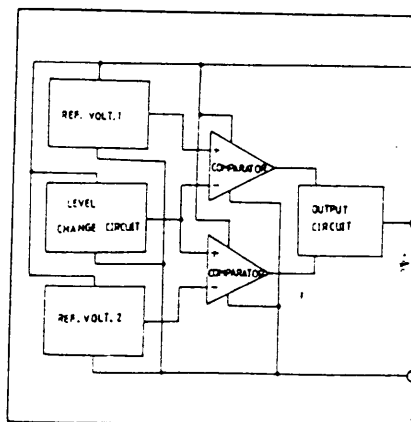
Note 1. ☐ only for M34300N4-XXXSP.

IC BLOCK DIAGRAM

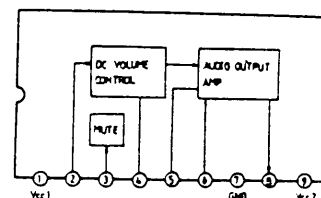
IC102 [M58659P]



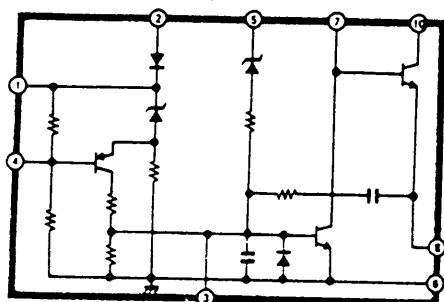
IC 103 (MN1280M)



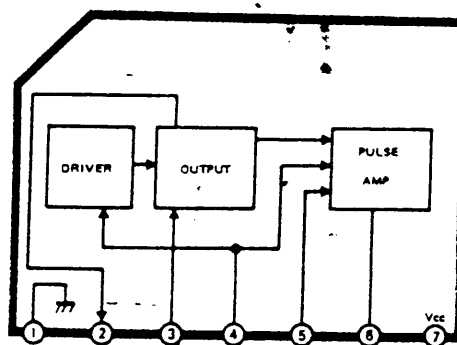
[C 851 (ANS265)]



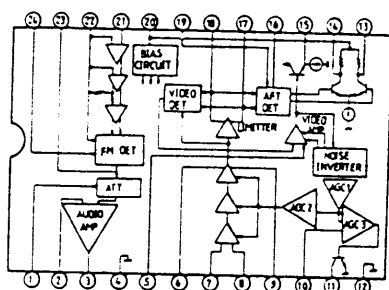
IC650 [STK7348]



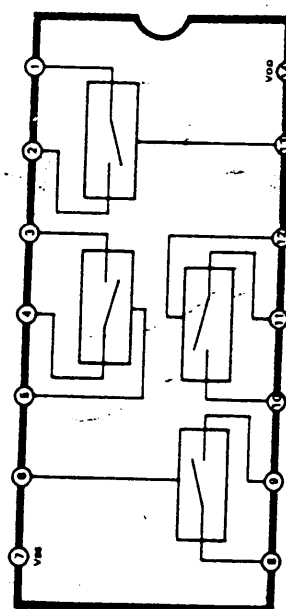
IC701 [AN5515]



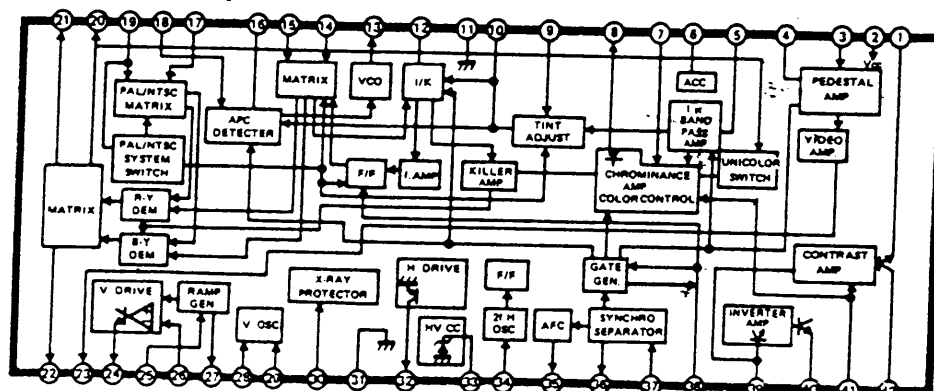
IC 251 (TA7680AP)

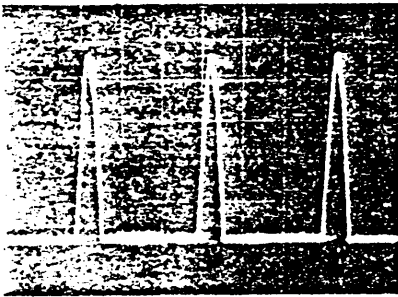


IC351 [TC40668P]

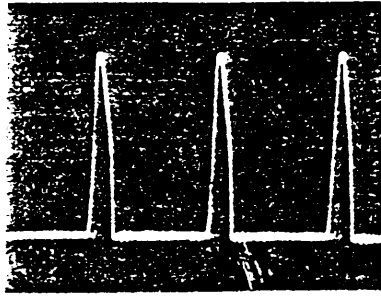


IC301 [TA7698AP]

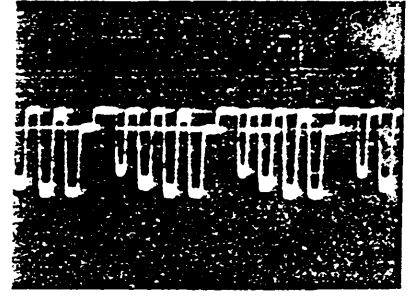




WF-13 1000Vp-p (H)



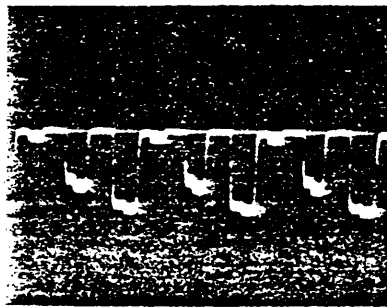
WF-14 23Vp-p (H)



WF-15 100Vp-p (H)



WF-16 100Vp-p (H)



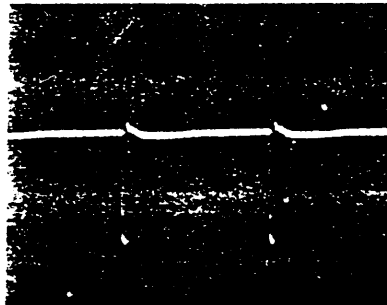
WF-17 112Vp-p (H)



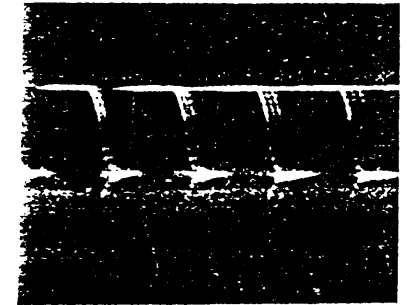
WF-18 56Vp-p (V)



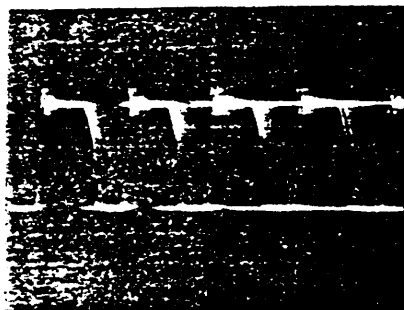
WF-19 56Vp-p (V)



WF-20 1.7Vp-p (V)



WF-21 120Vp-p (H)



WF-22 560Vp-p (H)

NOTES:

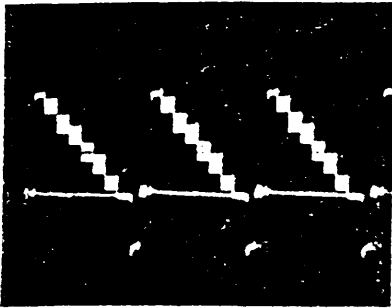
WAVEFORMS SHOWN WERE PRODUCED USING A PATTERN GENERATOR WITH ITS CONTROL SET TO PRODUCE A COLOR BAR SIGNAL AND A WIDEBAND OSCILLOSCOPE WITH LOW CAPACITY PROBE TO PREVENT LOADING. RECEIVER OPERATING CONTROLS WERE ADJUSTED TO PRODUCE A NORMAL PICTURE. OSCILLOSCOPE SWEEP WAS SET AT 5 ms FOR VERTICAL WAVEFORMS AND 20 μ s FOR HORIZONTAL WAVEFORMS. PEAK-TO-PEAK VOLTAGES INDICATED MAY VARY DEPENDING ON CALIBRATION OF TEST EQUIPMENT, CHASSIS PARTS TOLERANCES AND CONTROL SETTINGS. ALL WAVEFORMS TAKEN WITH WIDEBAND OSCILLOSCOPE.

VOLTAGE AND WAVEFORMS ARE TAKEN WITH COLOR BAR SIGNAL GENERATOR APPLIED TO THE SET

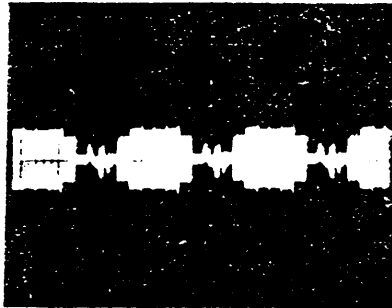
WAVEFORMS 1 THRU 20 USE CHASSIS GROUND.

WAVEFORMS 21 THRU 22 USE "HOT" GROUND.

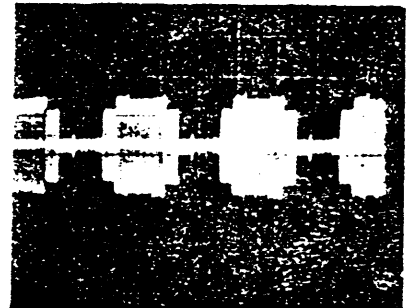
CHASSIS WAVEFORMS



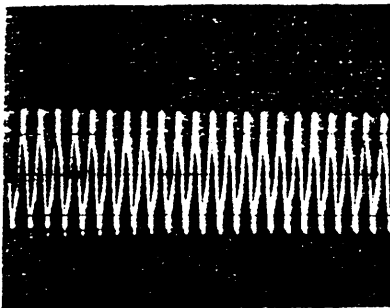
WF-1 3.0Vp-p (H)



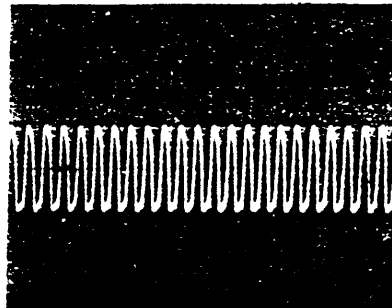
WF-2 0.2Vp-p (H)



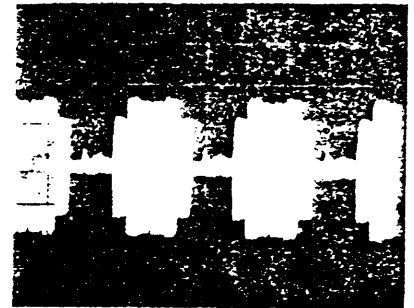
WF-3 1.6Vp-p (H)



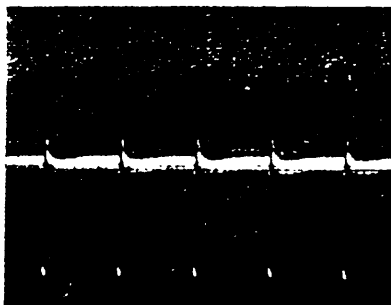
WF-4 1.8Vp-p (H)



WF-5 3.2Vp-p (H)



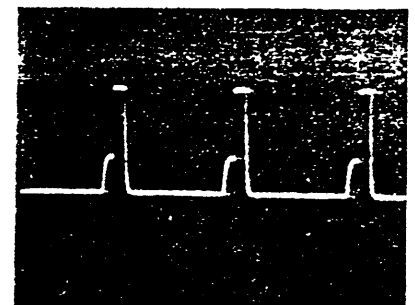
WF-6 0.26Vp-p (H)



WF-7 2Vp-p (V)



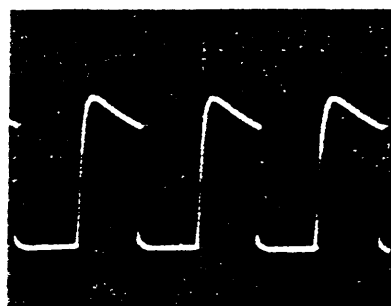
WF-8 0.9Vp-p (H)



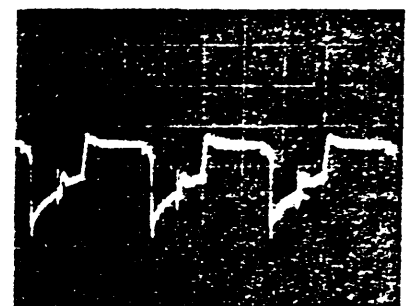
WF-9 5.6Vp-p (H)



WF-10 6Vp-p (H)

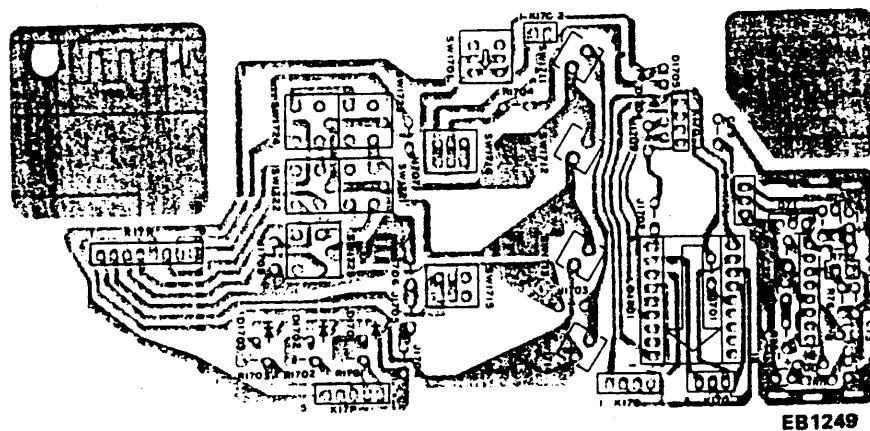


WF-11 220Vp-p (H)



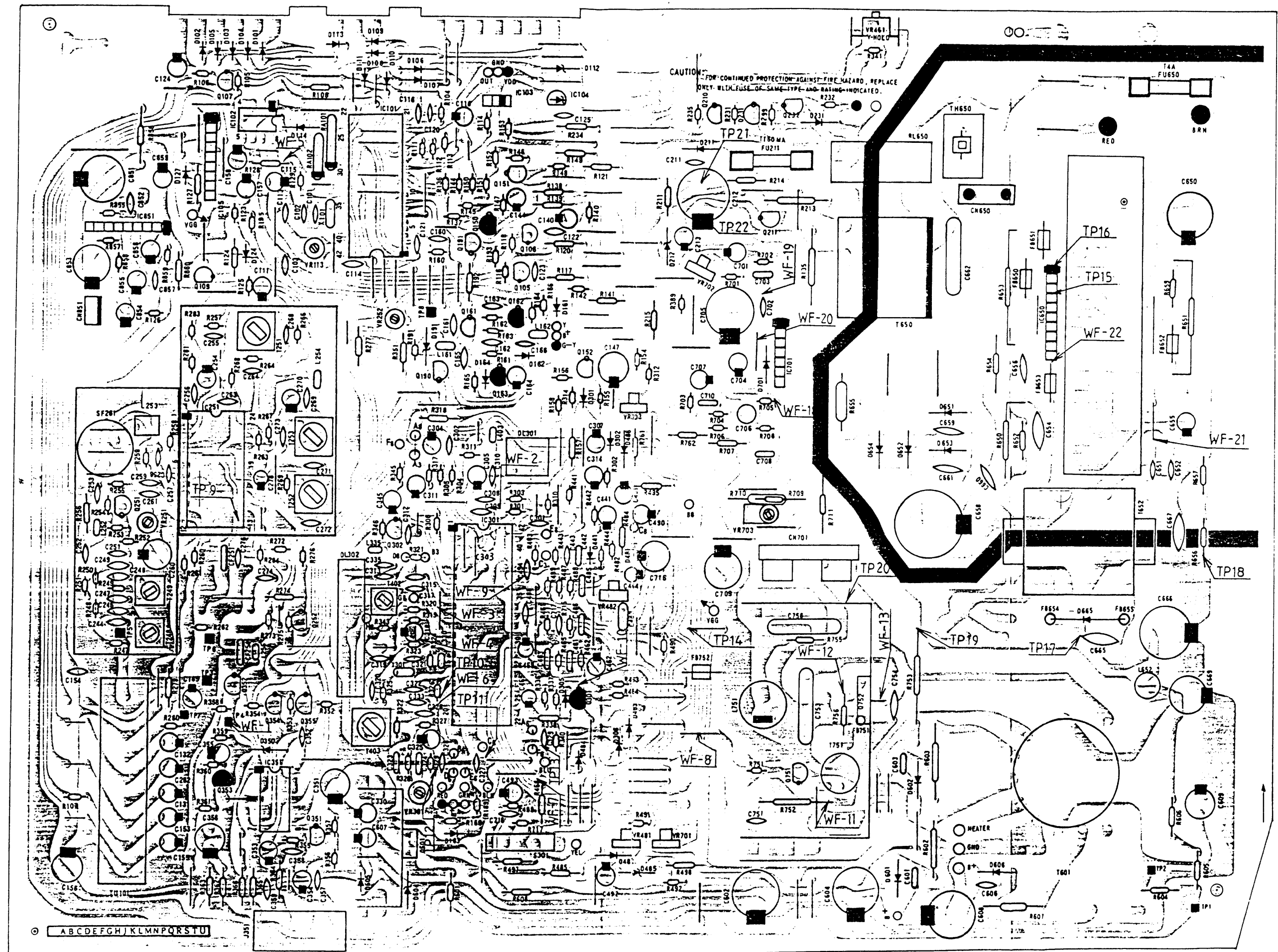
WF-12 5.2Vp-p (H)

KEY BOARD
CIRCUIT SIDE



EB1249

⑤



WIRING DIAGRAM

