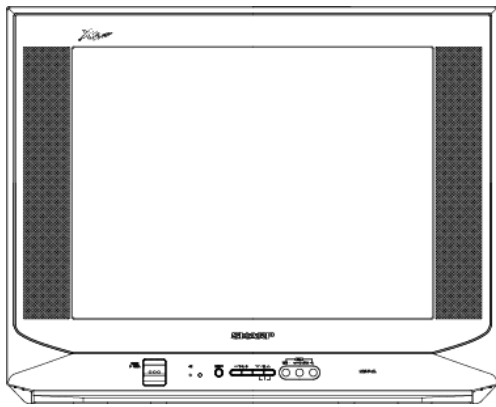


SHARP SERVICE MANUAL



S576821MFG1L

COLOUR TELEVISION Chassis No. GA6

MODEL 21M-FG1L

In the interests of user safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

	Page
● IMPORTANT SERVICE SAFETY PRECAUTION	1-1
● LOCATION OF USER'S CONTROL	2-1
● INSTALLATION AND SERVICE INSTRUCTIONS	3-1
● SERVICE MODE	4-1
● ADJUSTMENT METHOD	5-1
● WAVEFORMS	6-1
● CHASSIS LAYOUT	7-1
● BLOCK DIAGRAM	8-1
● DESCRIPTION OF SCHEMATIC DIAGRAM	9-1
● SCHEMATIC DIAGRAMS	10-1
● PRINTED WIRING BOARD ASSEMBLIES	11-1
● Parts Guide	

ELECTRICAL SPECIFICATIONS

POWER INPUT.....AC 110-220 V, 50/60 Hz
 POWER RATING85W
 PICTURE SIZE1,239 cm²(192sq inch)
 CONVERGENCE Magnetic
 SWEEP DEFLECTION Magnetic
 FOCUS Electrostatic
 INTERMEDIATE FREQUENCIES
 Picture IF Carrier Frequency 45.75 MHz
 Sound IF Carrier Frequency 41.25 MHz
 Color Sub-Carrier Frequency42.17 MHz
 (Nominal)
 AUDIO POWER
 OUTPUT RATING... 3.0 W(RMS) x 2pcs

SPEAKER
 SIZE 2" X 3.5", 2pcs
 VOICE COIL IMPEDANCE16 ohm at 400 Hz
 ANTENNA INPUT IMPEDANCE
 VHF/UHF75 ohm Unbalanced
 TUNING RANGES
 VHF-Channels 2 thru 13
 UHF-Channels 14 thru 69
 CATV Channels 1 thru 125
 (EIA, Channel Plan U.S.A.)

Specifications are subject to change without prior notice.

SHARP CORPORATION

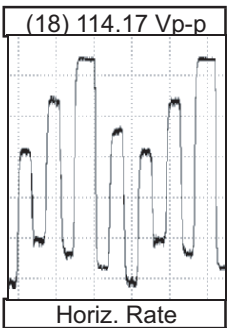
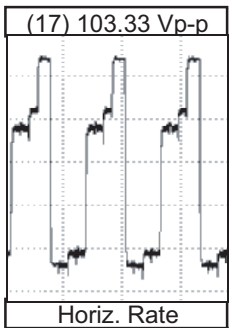
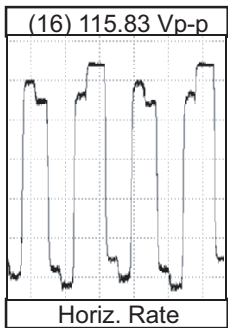
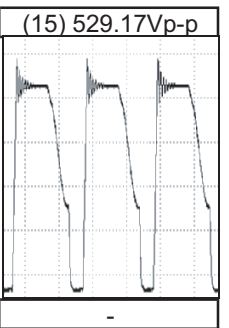
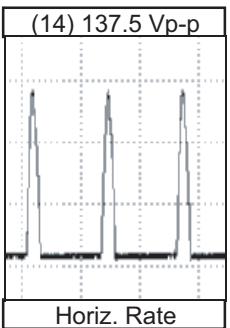
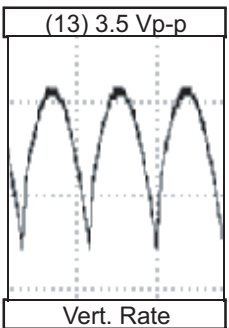
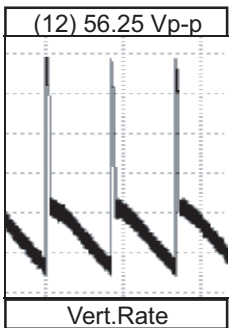
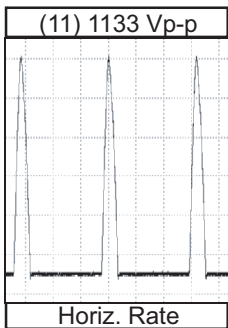
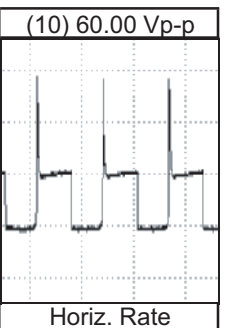
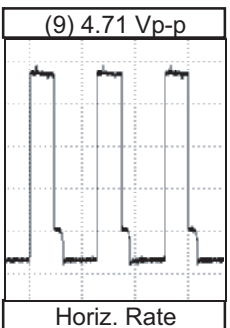
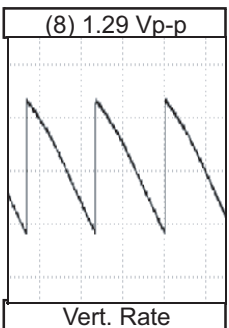
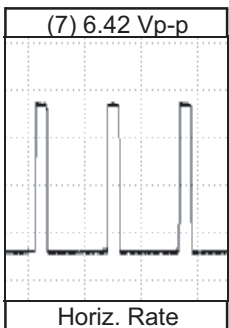
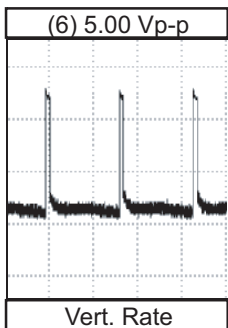
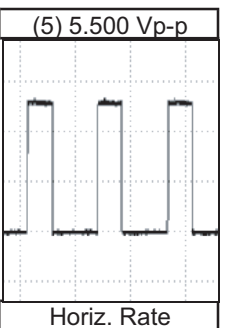
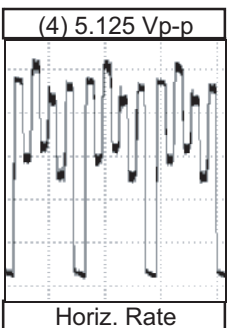
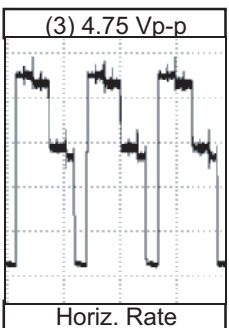
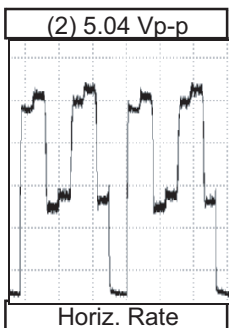
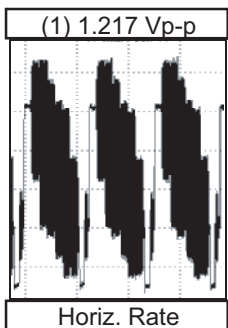
This document has been published to be used for after sales service only.
 The contents are subject to change without notice.



CHAPTER 6. WAVEFORMS

[1] WAVEFORMS

WAVEFORMS

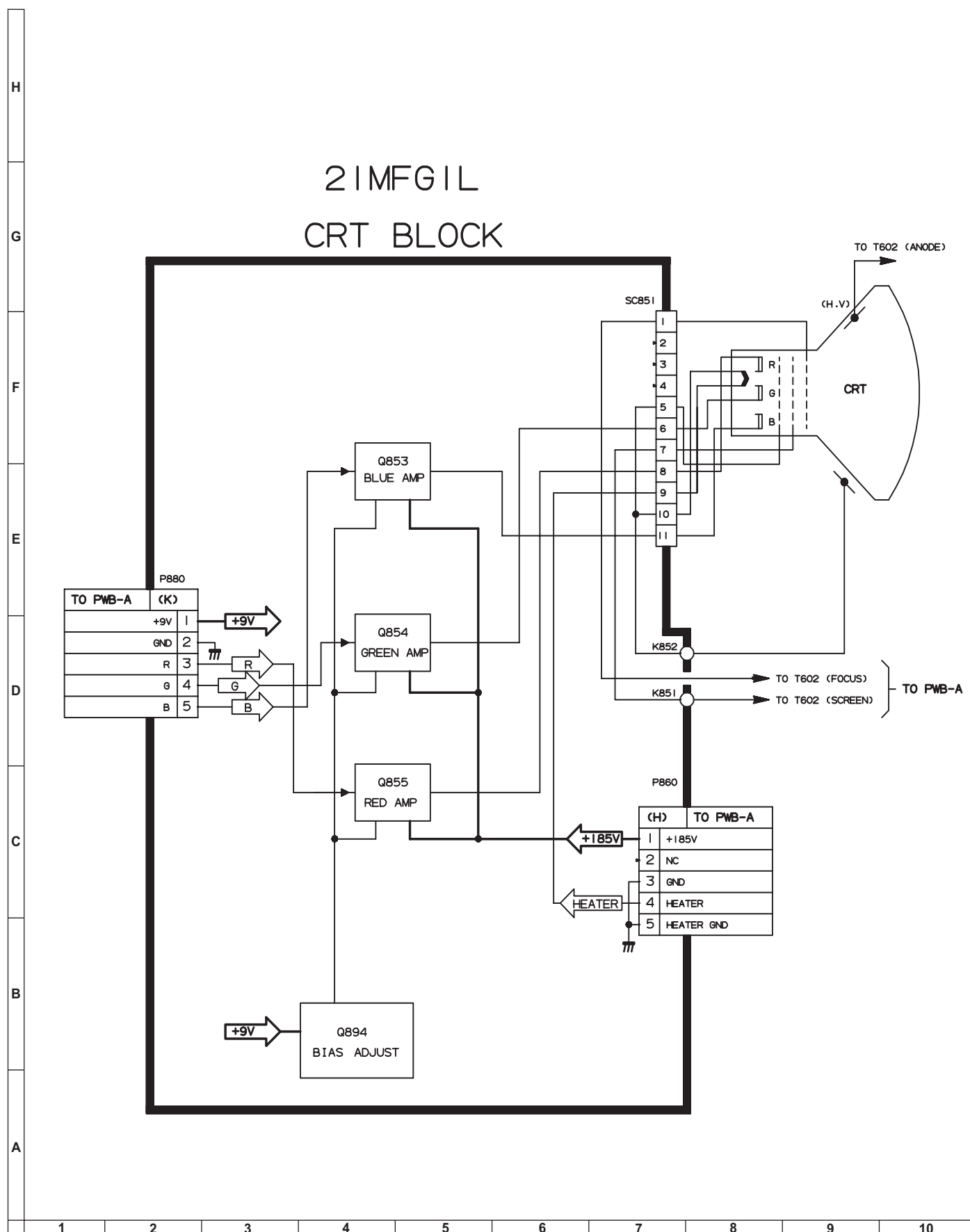


[1] CHASSIS LAYOUT



CHAPTER 8. BLOCK DIAGRAM

[1] BLOCK DIAGRAM: CRT UNIT







CHAPTER 9. DESCRIPTION OF SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. The unit of resistance "ohm" is omitted.
($K=k\Omega=1000\Omega$, $M=M\Omega$)
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are μF , unless otherwise noted.
($P=pF=\mu\mu F$)
4. (G) indicates $\pm 2\%$ tolerance may be used.
5. $\overline{\text{---}}$ indicates line isolated ground.

VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 μ V B & W or Color signal.

WAVEFORM MEASUREMENT CONDITIONS:

1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

 AND SHADED () COMPONENTS
= SAFETY RELATED PARTS.
 MARK= X-RAY RELATED PARTS.

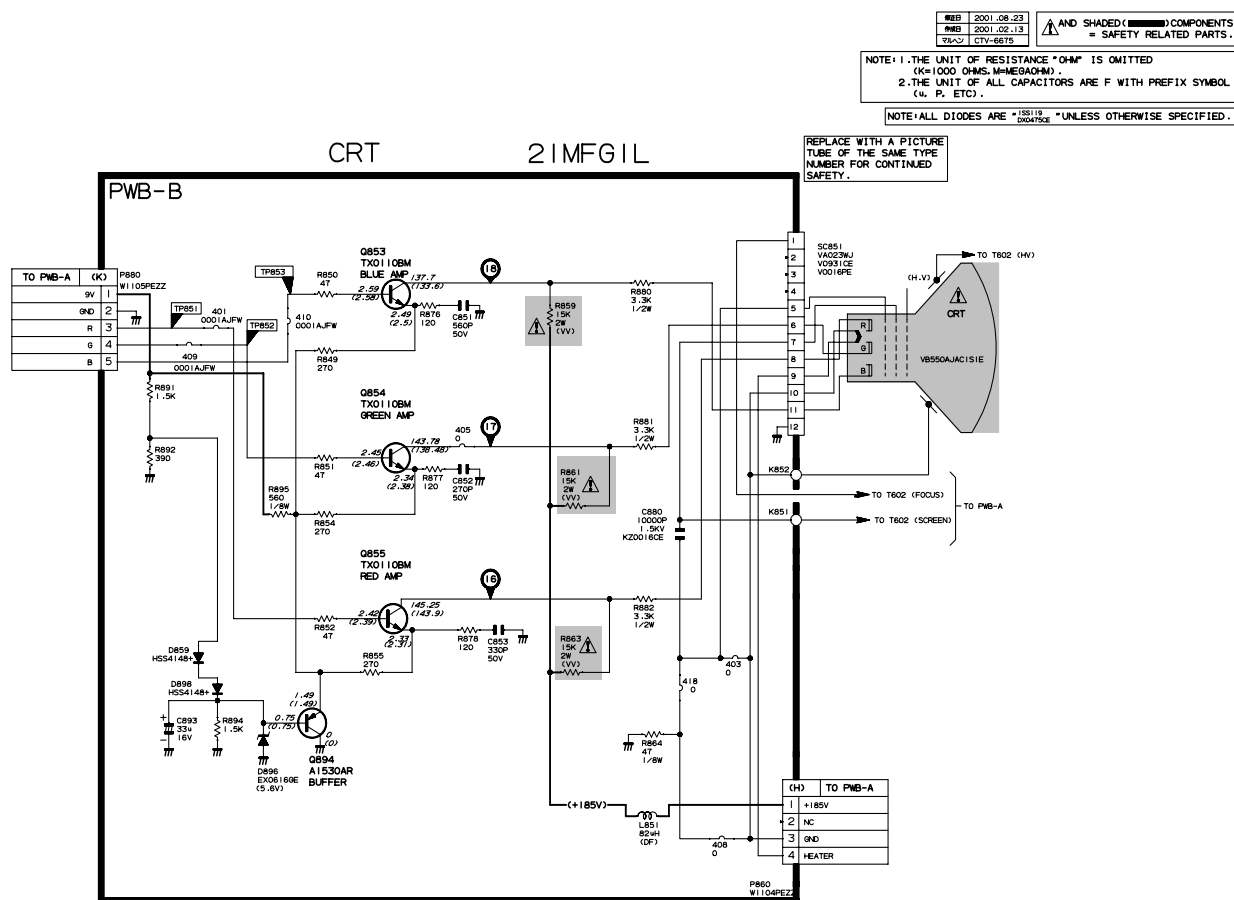
ORGANES MARQUES  ET HACHURES ():
PIECES RELATIVES A LA SECURITE.
MARQUE  : PIECES RELATIVE AUX RAYONS X.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

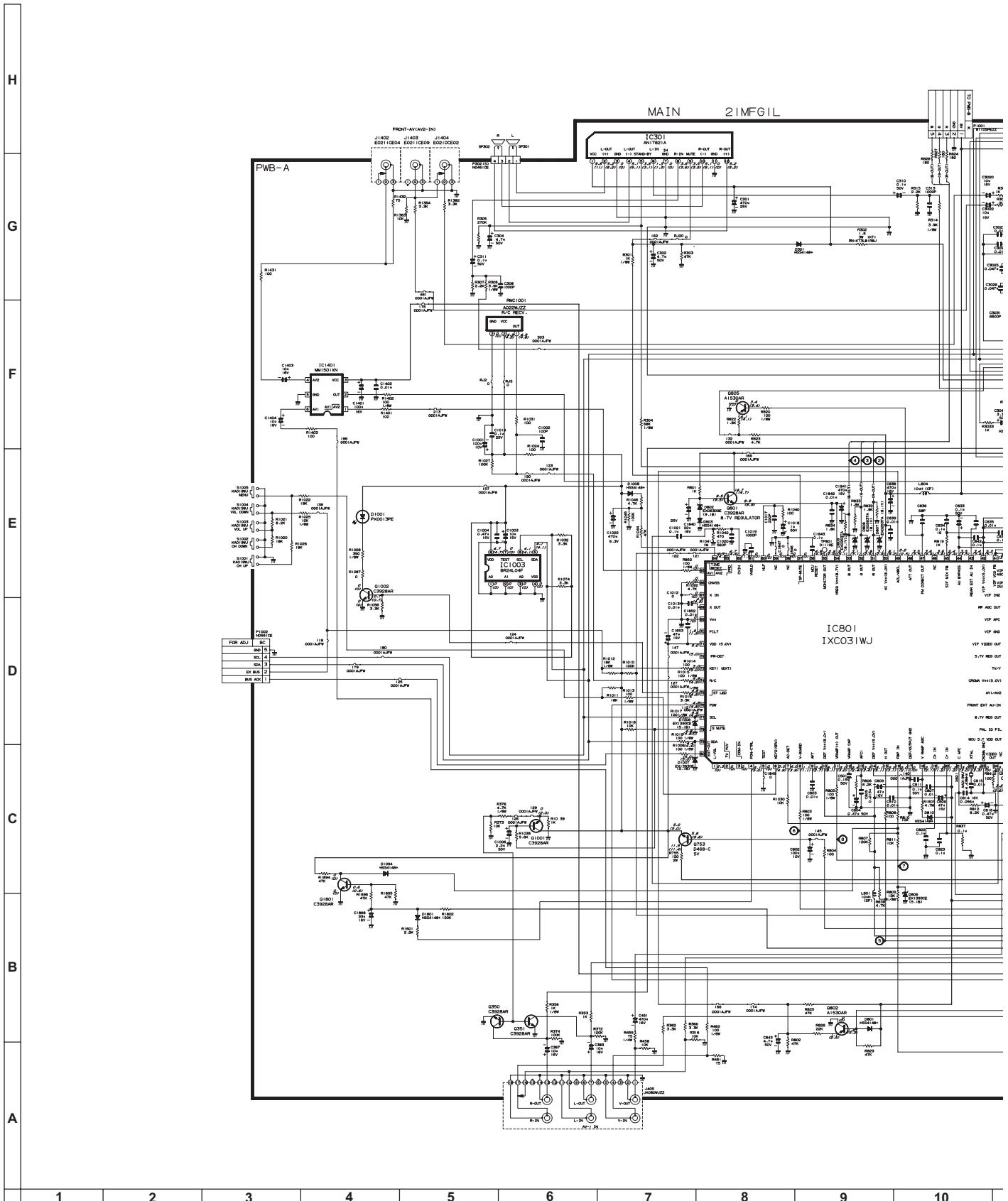


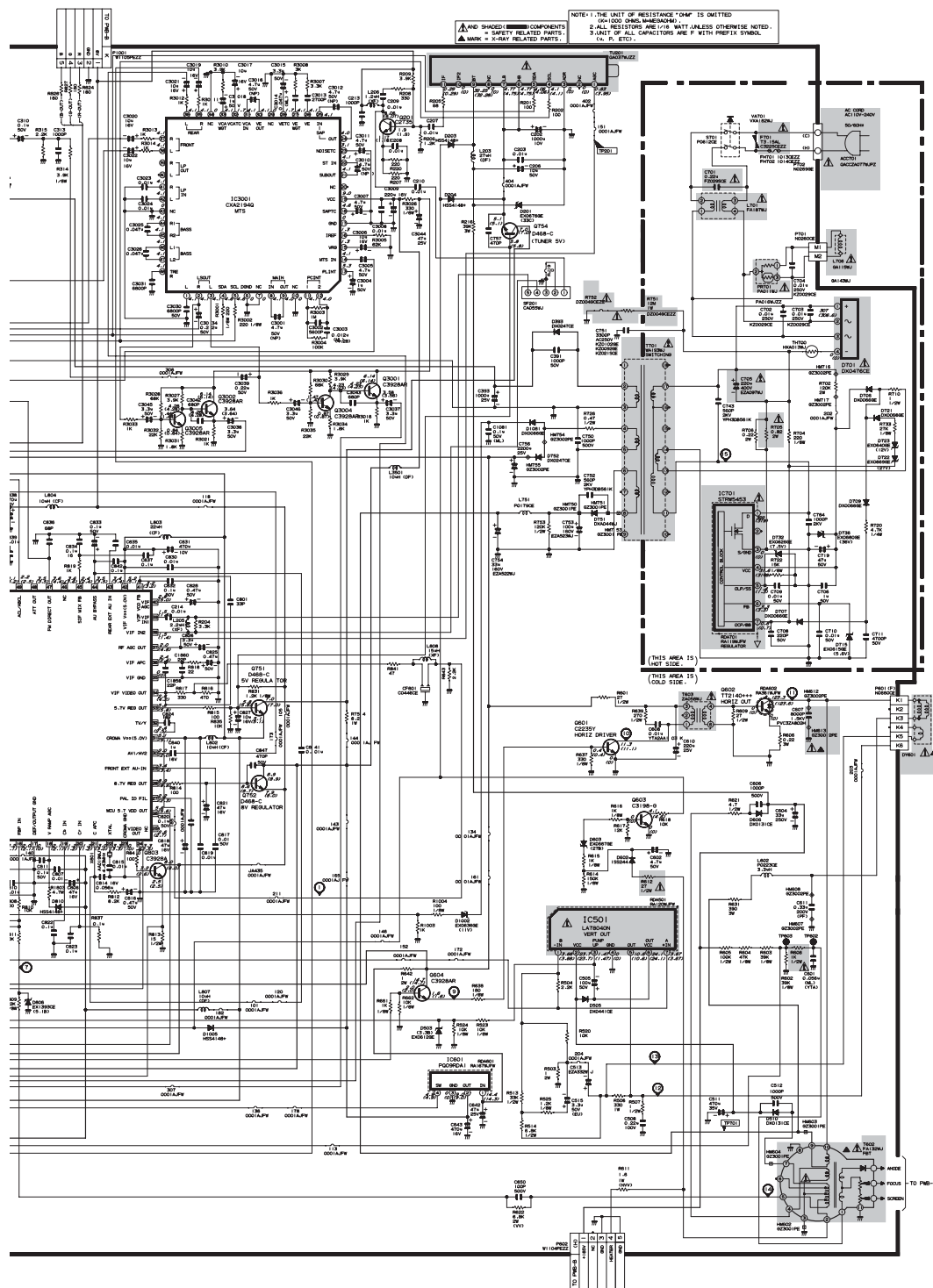
CHAPTER 10. SCHEMATIC DIAGRAMS

[1] SCHEMATIC DIAGRAM: CRT UNIT



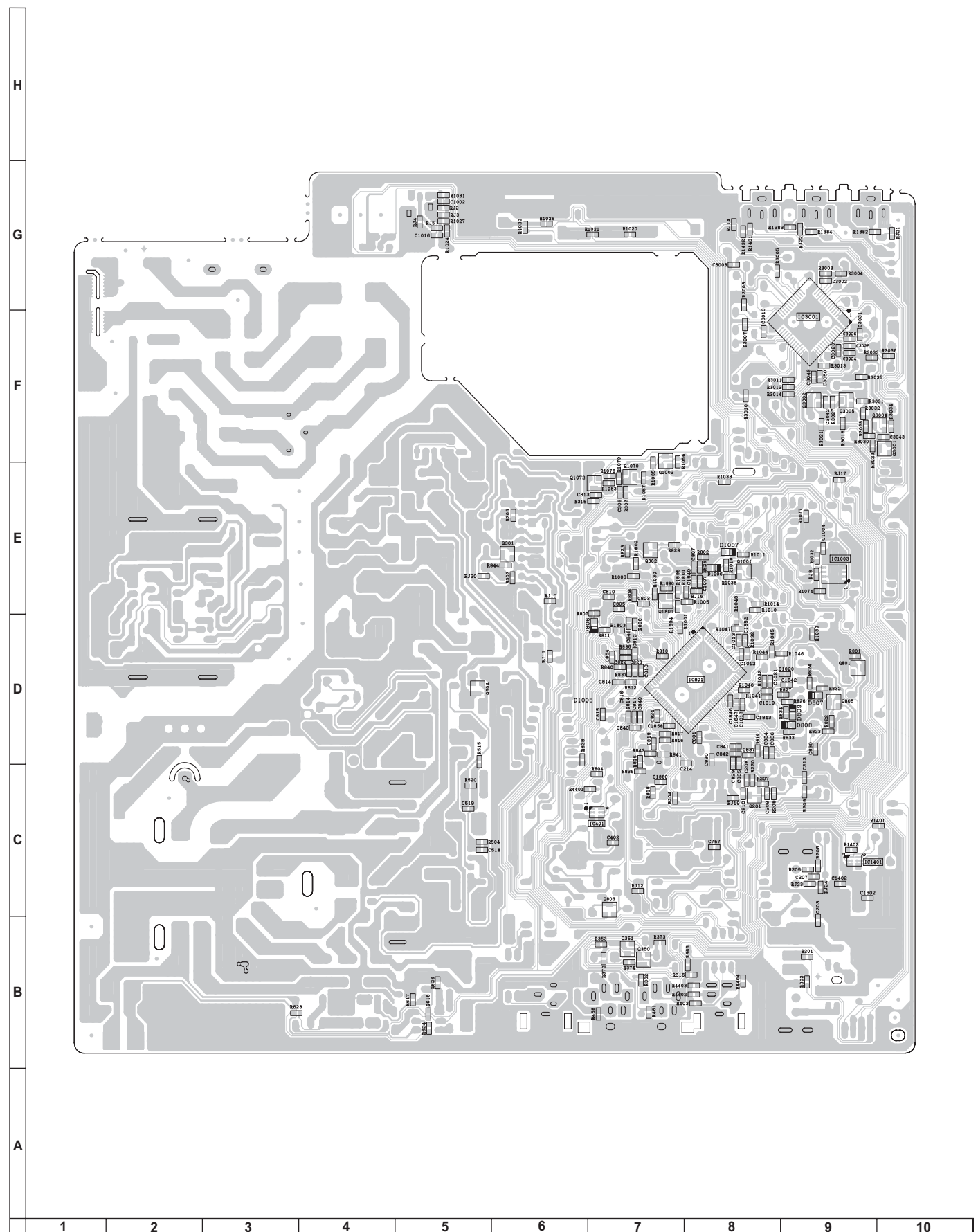
[2] SCHEMATIC DIAGRAM: MAIN UNIT





CHAPTER 11. PRINTED WIRING BOARD ASSEMBLIES

[1] PWB-A: MAIN UNIT (Wiring Side)







[4] PWB-B: CRT UNIT (Chip Parts Side)