

**SCHEMATIC DIAGRAM <MODEL 289X4Y> (1/2)**

NOTE: The parts identified by the international hazard symbols are critical for safety. Replace only with part number specified.

**OBSERVATION OF VOLTAGES AND WAVEFORMS**

- 1 Voltages read with VTVM from point shown to chassis ground. Line voltage 220 volts, colour bar signal.
- 2 Voltages reading may vary  $\pm 20\%$ .
- 3 The schematic shown is representative only.
- 4 All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 5 Check FINE TUNING, BRIGHTNESS, CONTRAST and COLOUR controls for best picture. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position.
- 6 Waveforms are taken using a standard colour bar signal.

**NOTES:**

- 1 D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
- 2 The circuits are subject to change without notice.
- 3  $\bullet$  : Solder links.

**EXPRESSION**

**VALUE OF RESISTOR CAPACITOR and INDUCTOR**

- 1 Resistance is shown in ohm k=1,000, M=1,000,000.
- 2 Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$  and the values more than 1 in pF.
- 3 Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu H$  and the values less than 1 in H.

**RESISTOR**

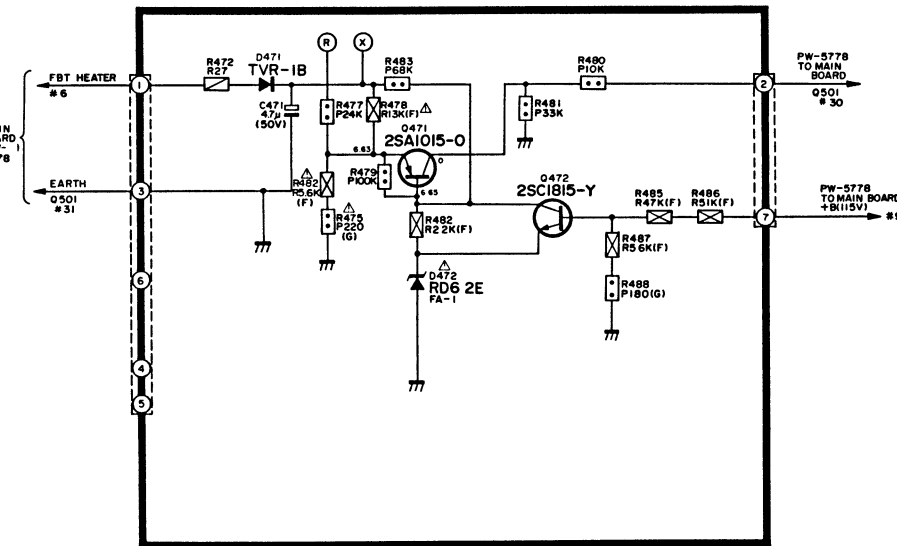
Table 1	
Type	Mark
Carbon Composition	S
Oxide Metal Film	R
Insulated Carbon Film	P
Wire Wound	W
Cement	No Mark
Variable Resistor	$\square$
Positive Thermistor	$\square$
Negative Thermistor	$\square$
Fusible Resistor	FR

Table 2			
Watt	Mark	Watt	Mark
1/16 W	$\square$	3 W	$\square$
1/8 W	$\square$	5 W	$\square$
1/4 W	$\square$	10 W	$\square$
1/2 W	$\square$	15 W	$\square$
1 W	$\square$	20 W	$\square$
2 W	$\square$	25 W	$\square$

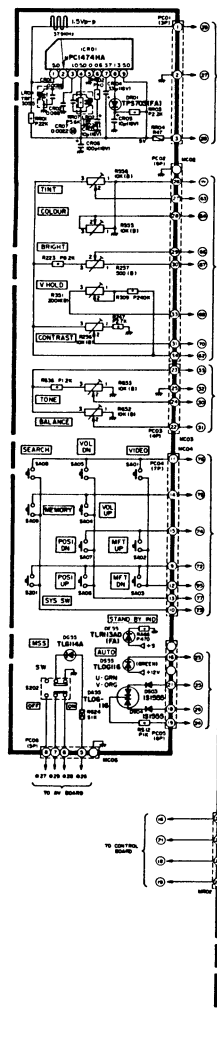
**CAPACITOR**

Table 3	
Type	Mark
Ceramic Disc 50V Only	$\square$
Electrolytic	$\square$
Electrolytic Non Polar	$\square$
Variable Capacitor	$\square$
Other	$\square$

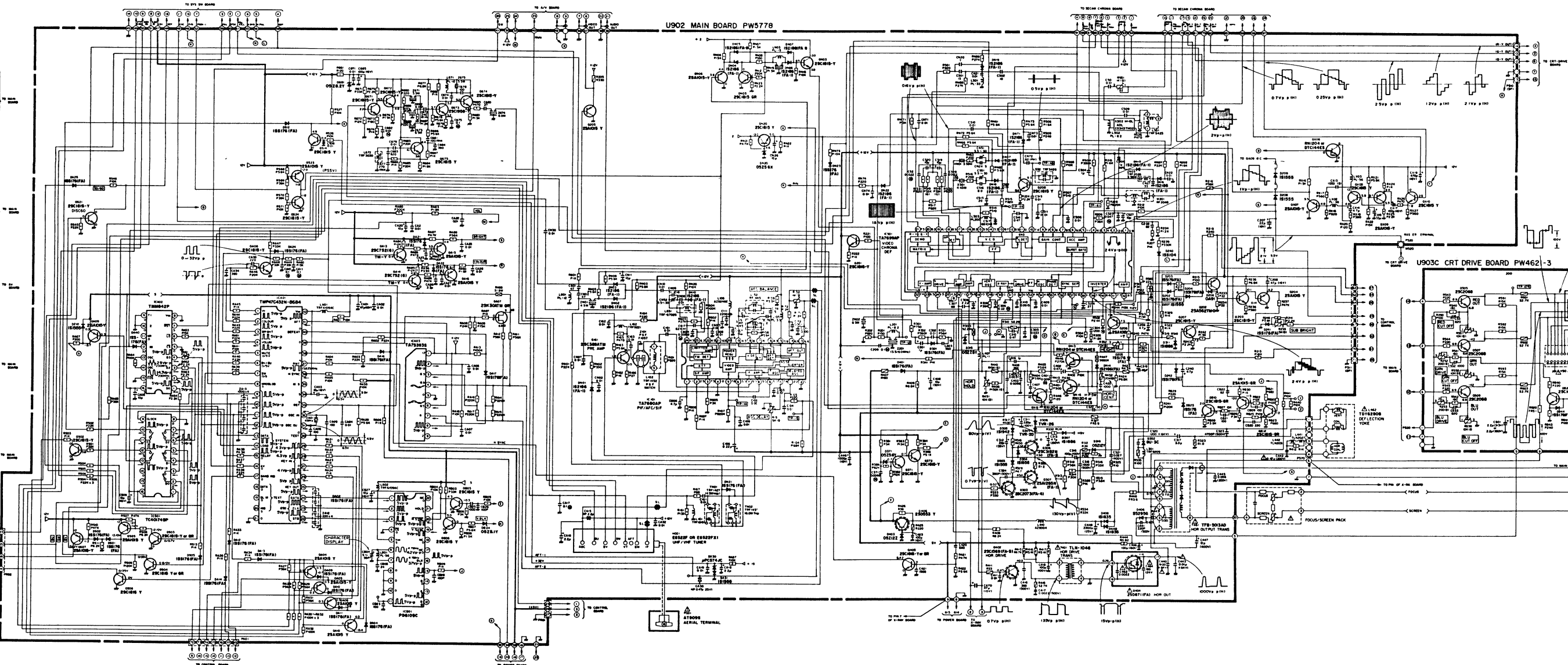
**U904 X-RAY BOARD PW6008**



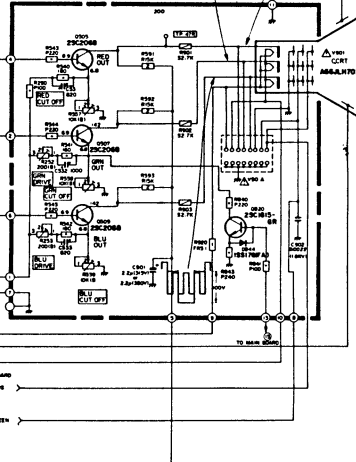
**UA01 CONTROL BOARD PW4624-1**



**U902 MAIN BOARD PW5778**



**U903C CRT DRIVE BOARD PW4621-3**



**SCHEMATIC DIAGRAM <MODEL 289X4> (2/2)**

**NOTE:** The parts identified by the international hazard symbols are critical for safety. Replace only with part number specified.

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- 1 Resistance is shown in ohm k=1,000, M=1,000,000
- 2 Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$  and the values more than 1 in pF
- 3 Unless otherwise noted in schematic all inductor values more than 1 are expressed in  $\mu\text{H}$  and the values less than 1 in H

**RESISTOR**

Table 1		Table 2	
Type	Mark	Watt	Mark
Carbon Composition	S	1/16 W	3 W
Oxide Metal Film	R	1/8 W	5 W
Insulated Carbon Film	P	1/4 W	10 W
Wire Wound	W	1/2 W	15 W
Cement	No Mark	1 W	20 W
Variable Resistor	$\text{⊕}$	2 W	25 W
Positive Thermistor	$\text{⊕}$		
Negative Thermistor	$\text{⊖}$		
Fusible Resistor	FR		

**CAPACITOR**

Table 3	
Type	Mark
Ceramic Disc 50V Only	$\text{⊖}$
Electrolytic	$\text{⊖}$
Electrolytic Non Polar	$\text{⊖}$
Variable Capacitor	$\text{⊕}$
Other	$\text{⊖}$

