

SHARP SERVICE MANUAL

S266525LC156/



**COLOR TELEVISION
SIGMA 9100 CHASSIS**

Chassis No. 25L3

MODEL 25LC156

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

CONTENTS

● ELECTRICAL SPECIFICATIONS	3
● BLOCK DIAGRAM	4
● INSTALLATION AND SERVICE INSTRUCTIONS	5
● CHASSIS LAYOUT	6
● PRINTED WIRING BOARD ASSEMBLIES	7
● SCHEMATIC DIAGRAMS	9
● REPLACEMENT PARTS LIST	16
● PACKING OF THE SET	20

SHARP ELECTRONICS CORPORATION

Executive Office:	Sharp Plaza,	Mahwah,	New Jersey	07430	(201) 529-8200
Regional Offices & Distribution Centers:	Sharp Plaza,	Mahwah,	New Jersey	07430	(201) 529-8200
	20600 S. Alameda St.,	Carson,	California	90810	(213) 637-9488
	430 E. Plainfield Rd.,	Countryside,	Illinois	60525	(312) 482-9292
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Parts Centers:	P.O. Box 405	Mahwah,	New Jersey	07430	(201) 529-8200
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INSTALLATION AND SERVICE INSTRUCTIONS

- Note: (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdriver or TV alignment tools.
- (2) Before performing adjustment, TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The entire receiver is protected by a 4.0A fuse (F2701), mounted on PWB-C, wired into one side of the AC line input.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, or +B system, the X-Radiation protector circuit must be tested for proper operation as follows:

1. Apply 120V AC using a variable transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Check the voltage of test point TP603 (It's voltage should be about 17.7V DC.)
4. Connect the cathode of diode D2503 with TP603 through a 6.8 k ohm, 1/2 w resistor. When these points are connected, the operation of horizontal oscillator stops.
5. To start operation, remove the resistor and touch the TP601 to chassis ground with a short clip lead. (Remove short clip lead as soon as the set operates again with a normal picture.) Connect TP2601 to chassis ground and see that the operation of the horizontal oscillator stops.
6. If the operation of the horizontal osc. does not stop in steps 4 and 5, the circuit must be repaired before the set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter to the CRT anode.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with strong air signal or a properly tuned test signal.
3. Set SW851 on PWB-B to "off" (center) position. Note that loss of luminance will occur.
4. Rotate Screen control (on T2602) to minimum (CCW) end of its rotation.
5. The reading should be approximately 28kV at zero beam.

If a correct reading cannot be obtained, check circuitry for malfunctioning components. Upon completion of voltage check, readjust screen control for proper operation and set SW851 to "on" position.

INSTALLATION AND SERVICE INSTRUCTIONS (Continued)

Field Adjustment

RF. AGC. Adjustment

- (1) Turn channel selector to a local station.
- (2) Place AFT switch in "off" position.
- (3) Turn RF AGC control (R212) fully clockwise until snow and/or noise appear in picture, then slowly turn control counter-clockwise until snow and/or noise disappear.
- (4) Check all other channels.

Sound

- (1) Turn channel selector to a local station.
- (2) Place AFT switch in "off" position.
- (3) Adjust volume control to mid-position.
- (4) Adjust sound det. coil (L301) to obtain good clear sound.

Sub-Bright Control

- (1) Turn channel selector to a local station.
- (2) Turn picture control (R440) fully clockwise and set bright control (R435) at the center position.
- (3) Turn sub-bright control (R436) to obtain normal brightness of the picture.

Vertical Size and Linearity Adjustment

- (1) Turn channel selector to a local station.
- (2) Check brightness and picture controls for a normal picture.

- (3) Adjust vertical size control (R508) for approximately one-half inch over-scan at top and bottom of picture screen, and linearity control (R507) for the best vertical linearity.

Focus Adjustment

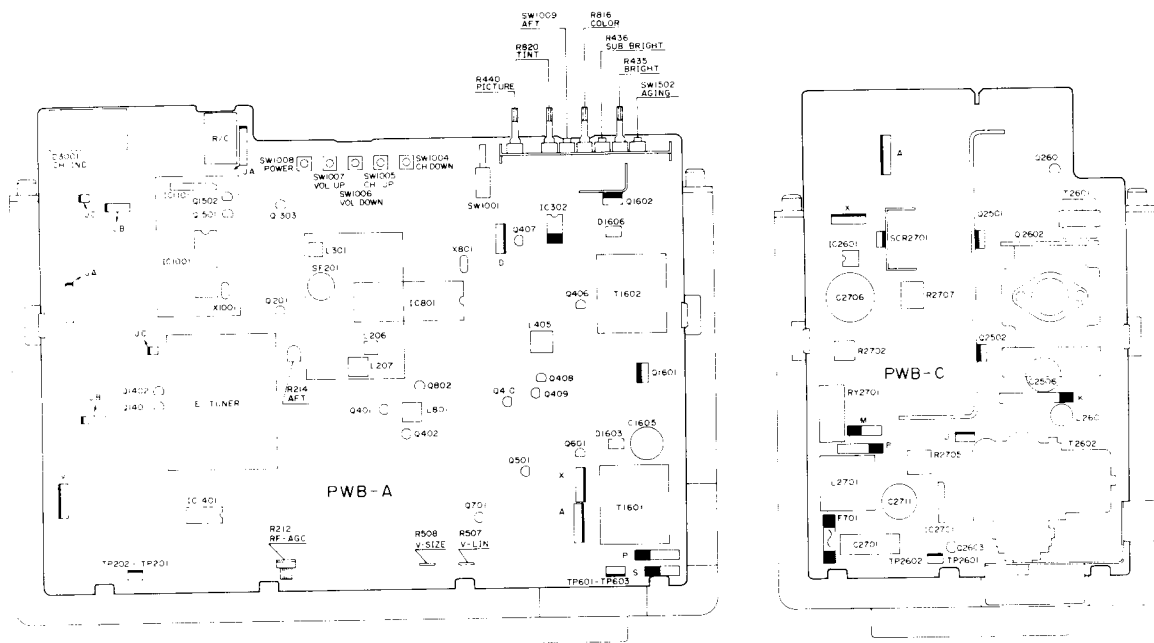
- (1) Turn channel selector to a local station.
- (2) Set brightness and picture control at a normal viewing level.
- (3) Adjust focus control (part of T2602) for sharp scanning lines and/or sharp picture.

NOTE 1: All field adjustments mentioned can be performed without test equipment.

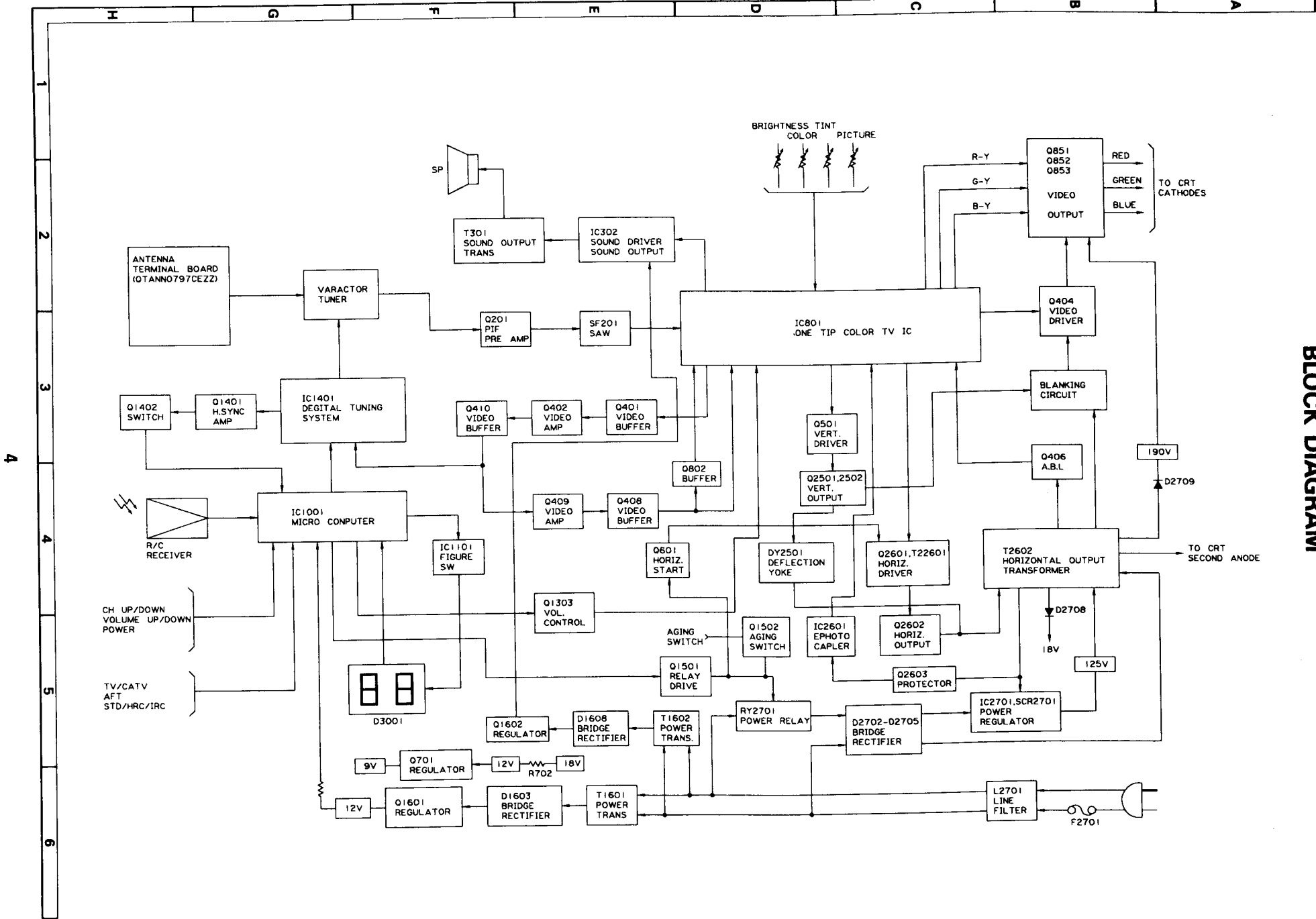
NOTE 2: The AFT SW is employed for the following purpose. When connecting a VCR or video game equipment to the antenna terminals of this TV and when the RF output frequency of these video equipments deviates from the normal TV channel frequency, this frequency deviation can be corrected by setting the AFT SW to the "ON" position. Usually the AFT SW should be set the "ON" position.

NOTE 3: After servicing the set, check that the aging SW1502 is set at "off" position. This aging SW is to be used only for the factory inspection: at "on" position, it won't allow the set to be turned off.

CHASSIS LAYOUT



BLOCK DIAGRAM



4

2

3

4

5

6

I G F E D C B A

1

REPLACEMENT PARTS LIST

SAFETY NOTE — Components marked with a (Δ) have special characteristics important to safety. Before replacing any these components, read carefully the SAFETY NOTICE on page 3 of the Service Manual. Components marked with an (▲) are related to X-Ray Protection circuit.

HOW TO ORDER REPLACEMENT PARTS — To have your order filled promptly and correctly, please furnish the following information:

1. MODEL NO.
2. PART NO.
3. DESCRIPTION

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor, Please call Toll-Free; 800-447-4700 (In Hawaii and Alaska, please contact local SHARP dealer).

* MARK: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	*	Description	Ref. No.	Part No.	*	Description
PICTURE TUBE							
▲▲ V101	VBA63ABG25X-S or VBA63AAM08X-S	M	CRT	409, 601, 1402			
▲▲ DY601	RCi LH0029MEZZ	M	Deflection Yoke	Q501	VS2SC1959Y/1E	J	2SC1959(Y)
▲ L702	RCi LG0007MEZZ	M	ADG Coil	Q701	VS2SC2236Y/-1	J	2SC2236(Y)
				Q1501, 1502	VS2SC1815GW-1	J	2SC1815(GR)
				Q1601, 1602	VS2SC1983// - 2	J	2SC1983
PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)							
PWB-A	DUNTK4393DE00	—	Mother Unit	DIODES			
PWB-B	DUNTK4294DE03	—	CRT Unit	D403, 405, 406, 407, 408,	VHD1SS119// - 1	J	1SS119
PWB-C	DUNTK4394DE00	—	Power Unit	▲▲ 603, 608, 801, 802, 1001, 1003, 1005, 1006, 1009, 1010, 1013, 1014, 1028, 1030, 1031, 1101 1108, 1301, 1305, 1306, 1404, 1405, 1601, 1604,			
PWB-A DUNTK4393DE00							
TUNER AND ASSEMBLY UNIT							
NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUY NOT INDEPENDENTLY.							
▲ D3001	VTUVTS-7UKPY/ RUNTK0111CEZZ	J J	110 Channel Varactor Tuner Channel Indication Unit	D404	VHD1N34A/// - 1	J	1N34A
INTEGRATED CIRCUITS							
▲▲ IC302	RH-i X0054CEZZ	J		D601, 606	RH-DX0110CEZZ	J	S5277G
▲▲ IC801	RH-i X0600CEZZ	J		D602, 1032	RH-EX0116GEZZ	J	Zener Diode RD6.8EB2
IC1001	RH-i X0692CEZZ	J		▲▲ D604	RH-EX0112CEZZ	J	Zener Diode
IC1101	RH-i X0260CEZZ	J		D605	RH-DX0101CEZZ	J	
IC1401	VHi UPC1486C-1	J		D607	RH-EX0200CEZZ	J	Zener Diode
TRANSISTORS							
Q201	VS2SC1906//1E	J	2SC1906	D702	RH-EX0023GEZZ	J	Zener Diode
Q401, 402, 403, 410, 802, 1303, 1401	VS2SC1815YW-1	J	2SC1815(Y)	D1002	RH-EX0103CEZZ	J	Zener Diode
Q406	VS2SC1815YW-1 or VS2SC454-C/1E	J	2SC1815(Y) 2SC454(C)				
Q407	VS2SA854-Q/1E or VS2SA562T6/-1	J	2SC854(Q) 2SA562T(δ)				
Q408,	VS2SA1015Y/1E	J	2SA1015(Y)				

Ref. No.	Part No.	*	Description	Ref. No.	Part No.	*	Description
D1015	RH- EX0217CEZZ	J	Zener Diode RD15EB	CONTROLS			
1018				R212	RVR- B4568CEZZ	J	10K(B) RF AGC
D1304, 1406	RH- EX0131CEZZ	J	Zener Diode RD5.1E	R214	RVR- B5269CEZZ	J	100K(B) AFT
D1401	RH- DX0130CEZZ	J		R435	RVR- B5297CEZZ	J	10K(B) Brightness
D1402	RH- EX0038CEZZ	J	Zener Diode	436,			Sub Brightness
D1602	RH- EX0047CEZZ	J	Zener Diode RD12EB	440,			Picture
D1603, 1606	RH- DX0200CEZZ	J		816,			Color
D1605	RH- EX0021TAZZ	J	Zener Diode	820			Tint
				R507	RVR- M7202TAZZ	J	2K(B) Vertical Linearity
				R508	RVR- M7199TAZZ	J	500(B) Vertical Size
PACKAGED CIRCUITS				CAPACITORS			
X801	RCRSB0005CEZZ	J	Crystal - 3.58MHz	C212, 324, 327, 420, 701	VCEAAA1CW337M	J	330 16V Electrolytic
X1001	RCRSB0013CEZZ	J	Crystal - 4.5MHz	C326, 433, 702, 703, 704, 1009, 1102, 1405	VCEAAA1CW477M	J	470 16V Electrolytic
D1019	RMPTJ0028CEZZ	J	15V x 7 Zener Diode	C304	VCEAAA1CW227M	J	220 16V Electrolytic
RR1001	RMPTC0128CEZZ	J	22K x 7 Resistor	C331,	VCE9AA1HW105M	J	1 50V Electrolytic (NP)
RR1002, 1003	RMPTC0135CEZZ	J	22K x 4 Resistor	602			
COILS				C427	VCCSPA2HL470K	J	47p 500V Ceramic
L202	VP- MK2R2K0000	J	2.2 μ H	C432	VCE9AA1CW476M	J	47 16V Electrolytic (NP)
L203	VP- RFR47K0000	J	0.47 μ H	C503	VCSATA1VE225K	J	2.2 35V Tantalum
L204	VP- RFR56K0000	J	0.56 μ H	C605	VCSATA1VE474K	J	0.47 35V Tantalum
L205	VP- RF180K0000	J	18 μ H	C613	VCCSPA2HL101K	J	100p 500V Ceramic
L206	RCiLi0448CEZZ	J	PIF Detection	C808	VCE9AA1HW225M	J	2.2 50V Electrolytic
L207	RCiLi0392CEZZ	J	AFT	C1005	VCEAAA1AW107M	J	100 10V Electrolytic
L301	RCiLi0374CEZZ	J	Sound Detection	C1504, 1615	VCEAAA1CW108M	J	1000 16V Electrolytic
L401	RCiLP0094CEZZ	J	180MHz Band Pass Filter	C1605, 1612	VCEAAH1VW108M	J	1000 35V Electrolytic
L402, 403, 1001, 1101, 1501	VP- MK100K0000	J	10 μ H	RESISTORS			
L405	RCiLZ0372CEZZ	J	Delay Line	▲▲ R609	VRD- RA2BE123J	J	12K ohm 1/8W Carbon
L406	VP- δ F820K0000	J	82 μ H	▲▲ R610	VRD- RA2BE822J	J	8.2K ohm 1/8W Carbon
L601	VP- MK270K0000	J	27 μ H	▲ R702	VRS- VV3LB220J	J	22 ohm 3W Oxide Film
L801	RCiLV0132CEZZ	J	Band Pass Filter	▲ R1104	VRS- VV3AB221J	J	220 ohm 1W Oxide Film
L802	VP- MK220K0000	J	22 μ H	▲ R1402	VRS- VV3DB273J	J	27K ohm 2W Oxide Film
L1401	VP- RF100K0000	J	10 μ H	▲ R1403	VRS- VV3DB223J	J	22K ohm 2W Oxide Film
CERAMIC FILTERS				▲ R1404	VRS- VV3AB121J	J	120 ohm 1W Oxide Film
CF301	RFiLC0001CEZZ	J	Ceramic Filter Sound Take-off	R1601	VRS- VV3DB101J	J	100 ohm 2W Oxide Film
CF401	RFiLC0013CEZZ	J	Ceramic Filter 4.5MHz Trap				
CF601	RFiLA0005CEZZ	J	Ceramic Filter 32FH Oscillation				
SF201	RFiLC0042CEZZ	J	Surface Acoustic Wave Filter				
TRANSFORMERS							
▲ T1601	RTRNP0342CEZZ	J	Power Transformers				
▲ T1602	RTRNP0339CEZZ	J	Power Transformers				

Ref. No.	Part No.	*	Description	Ref. No.	Part No.	*	Description
SWITCHES				PWB-C DUNTK4394DE00			
SW1001	QSW - P0264CEZZ	J	TV/CATV Switch	INTEGRATED CIRCUITS			
SW1004, 1005, 1006, 1007, 1008	QSW - K0025CEZZ	J	Channel Down Switch, Channel Up Switch, Volume Down Switch, Volume Up Switch, Power Switch	▲▲ IC2601	RH- FX0003CEZZ	J	
SW1009, 1502	RVR - B5297CEZZ	J	AFT Switch, Aging Switch	▲▲ IC2701	RH- i Z0027CEZZ	J	
MISCELLANEOUS PARTS				TRANSISTORS			
FB301, 601	RBLN - 0036CEZZ	J	Ferrit Bead	Q2501, 2502	VS2SC3299Y/ - 1 or VS2SD1267 - P1E	J	2SC3299(Y) 2SD1267
	RRMCU0153CEZZ	J	Remote Control Receiver	Q2601	VS2SC2655Y/ - 1	J	2SC2655(Y)
PWB-B DUNTK4294DE03				▲ Q2602	VS2SD871/ / / - 1	J	2SD871
TRANSISTORS				Q2603	VS2SC1815GW - 1	J	2SC1815(GR)
Q851, 852, 853	VS2SC1514/ / - 1	J	2SC1514	DIODES			
COIL				D2501, 2502	RH- DX0123CEZZ	J	TVR1D
L851	VP - LK271K0000	J	270 μ H	▲ D2503	RH- DX0105TAZZ	J	TVR1J
CONTROLS				▲▲ D2601, 2701	VHD1SS119/ / - 1	J	1SS119
R854, 862, 870	RVR - B4733CEZZ	J	10K(B) Red Bias Green Bias Blue Bias	D2602, 2707	RH- DX0126CEZZ	J	
R860, 869	RVR - B4726CEZZ	J	200(B) Green Drive Blue Drive	▲ D2702, ▲ 2703, ▲ 2704, ▲ 2705	RH- DX0154CEZZ	J	1S1887A
CAPACITOR				▲ D2706	RH- EX0084CEZZ	J	05Z72, Zener Diode
C856	RC - KZ007JCEZZ	J	0.01 1.4kV Ceramic	▲ D2708	RH- DX0202CEZZ	J	
RESISTORS				▲ D2709	RH- DX0086TAZZ	J	RH1S
▲ R856, ▲ 863, ▲ 866	VRS - VV3DB153J	J	15k 2W Oxide Film	▲▲ SCR2701	VHS3S4M/ / LB1E or VHSCR3AMZ8LB1	J	Silicon Controlled Rectifier
SWITCH				PACKAGED CIRCUIT			
SW851	QSW - B0015CEZZ	J	Service Switch (Cut off)	▲ POR2701	RMP TP0025CEZZ	J	Positive Coefficient Thermistor
MISCELLANEOUS PART				COILS			
S851	QS6CV0913CEZZ	J	Socket - CRT	L2601	RCi LZ0213CEZZ	J	Linearity Coil
				▲ L2701	RCi LF0087CEZZ or RCi LF0090CEZZ	J	Line Filter
MISCELLANEOUS PART				TRANSFORMERS			
				▲ T2601	RTRNZ0168CEZZ	J	Horizontal Drive
				▲▲ T2602	RTRNF1601CEZZ	J	Horizontal Output (W/Focus, Screen Controls and H.V. Rectifier)

Ref. No.	Part No.	*	Description
CAPACITORS			
C2501	VCEAAA1EW107M	J	100 25V Electrolytic
C2505	VCEAAA1JW107M	J	100 63V Electrolytic
C2506	VCEAGA1VW108M	J	1000 35V Electrolytic
C2507	VCKYPB2DE473P	J	0.047 200V Ceramic
△ C2508	VCEAAA1JW476M	J	47 63V Electrolytic
C2509	VCKYPB3AB102K	J	0.001 1KV Ceramic
C2606	VCFPPD2DB564J	J	0.56 200V Metalized Polypro
▲▲ C2607	VCKYPB3SB501K	J	500P 3KV Ceramic
▲▲ C2608,	VCFPPC3CA272J	J	0.0027 1.6KV Metalized Polypro
▲▲ 2609,			
▲▲ 2610,			
▲▲ 2611,			
▲▲ 2612			
C2613,	VCKYPB2HE103P	J	0.01 500V Ceramic
2703,			
2704,			
2705			
△ C2701	RC- QZ019DCEZZ	J	0.22 AC125V UL Spec
△ C2702,	RC- KZ0030CEZZ	J	0.0033 AC125 Ceramic
2717,			
2720			
△ C2706	RC- EZ0141CEZZ	J	680 200V Electrolytic
C2708	VCKYPA2HB332K	J	0.0033 500V Ceramic
C2709,	VCKYPA2HB471K	J	470p 500V Ceramic
2715,			
2716			
C2710	VCQPSC2DB473K	J	0.047 200V Polypro Film
△ C2711	VCEAAH2CW107M	J	100 160V Electrolytic
C2713	VCEAAA1EW337M	J	330 25V Electrolytic
▲▲ C2714	VCQYSH1HM103K	J	0.01 50V Mylar
C2718	VCKYPA2HB152K	J	0.0015 500V Ceramic
△ C2719	VCEAAA1EW108M	J	1000 25V Electrolytic
△ C2721	VCEAAH2EW476M	J	47 250V Electrolytic

RESISTORS			
△ R2403	VRS- SV2HC103J	J	10k 1/2W Oxide Film
△ R2504	VRS- VV3DB331J	J	330 2W Oxide Film
△ R2505	VRS- VV3LB331J	J	330 3W Oxide Film
△ R2506	VRS- VV3DB120J	J	12 2W Oxide Film
△ R2507,	VRS- VV3LB120J	J	12 3W Oxide Film
2604			
R2509	VRN- VV3AB1R8J	J	1.8 1W Metal Coating
▲▲ R2605	VRD- RA2BE393J	J	39k 1/8W Carbon
▲▲ R2606	VRD- RA2BE123J	J	12k 1/8W Carbon
△ R2608	VRN- VV3DBR27J	J	0.27 2W Oxide Film
▲▲ R2609	VRD- RA2BE473J	J	47k 1/8W Carbon
▲▲ R2610	VRD- RA2BE683J	J	68k 1/8W Carbon
△ R2701	VRC- UA2HG105K	J	1M 1/2W Solid
△ R2702	RR- WZ0015CEZZ	J	2.2 10W Cement
△ R2705	RR- WZ0022CEZZ	J	2.7 15W Cement
△ R2706	VRS- SV2HC151J	J	150 1/2W Oxide Film
△ R2707	VRW- KW3HC331K	J	330 5W Cement
△ R2712,	VRN- VV3AB1R0J	J	1 1W Metal Coating
△ 2713			
△ R2714	VRN- VV3AB1R2J	J	1.2 1W Metal Coating
△ R2715	VRS- SV2HC100J	J	10 1/2W Oxide Film

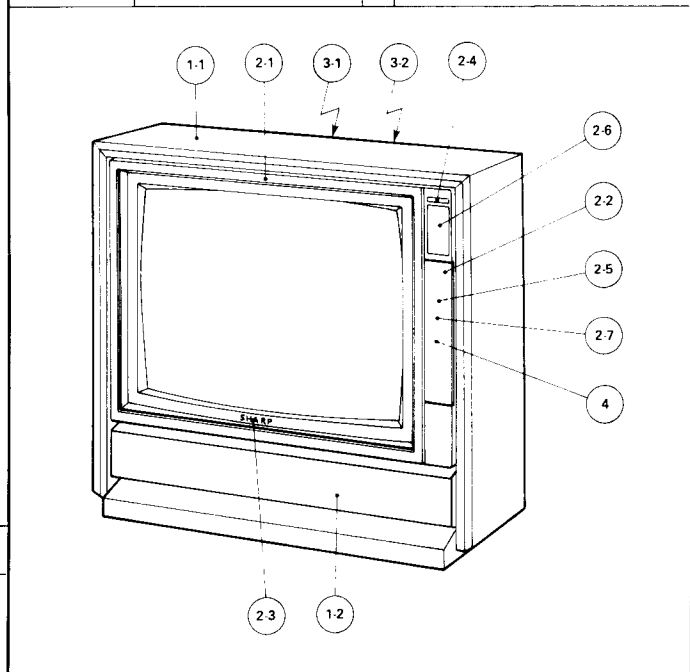
RELAY			
△ RY2701	RRL YU0018CEZZ	J	Power Relay

Ref. No.	Part No.	*	Description
MISCELLANEOUS PARTS			
△	QACCD3014CESA	J	AC Line Cord AC 120V, 60Hz
△ F2701	QFS- B4021GEZZ	J	Fuse — 4A 125V AC
	QFSD1002CEZZ	J	Holder — F2701 (2 Pcs Used)
FB2501	RBLN- 0020CEZZ	J	Ferrite Bead
FB2601	RBLN- 0036CEZZ	J	Ferrite Bead
FB2602,	RBLN- 0010CEZZ	J	Ferrite Bead
2701,			
2702			

TRANSFORMER			
△ T301	RTRNS0102CEZZ	J	Audio Output Transformer

MISCELLANEOUS PARTS			
	QTANN0797CEZZ	J	Antenna Terminal Board Ass'y
	VSP0010PB758A	M	Speaker 8 ohm
	RRMCG0346CESA	J	R/C Transmitter
	RUNTK0004MEZZ	M	Antenna Adaptor

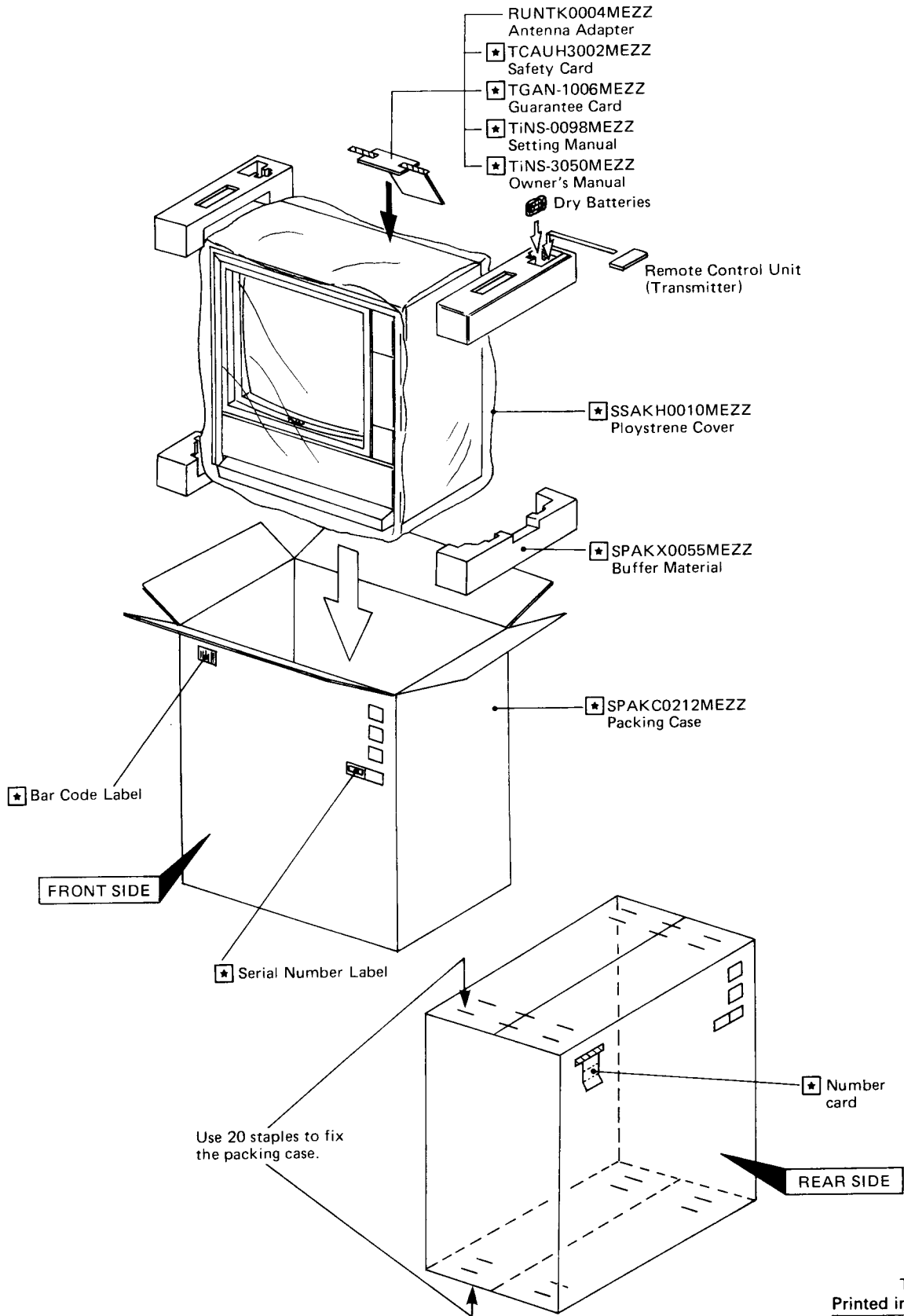
CABINET PARTS			
1	CCAB- 5038WEVO	M	Cabinet, Complete, Front
1-1	Not Available	—	Cabinet, Front
1-2	GNETC0010MESA	M	Speaker Net
2	CWAKP1012WEVO	M	Front Mask — Complete Assembly
2-1	Not Available	—	Front Mask
2-2	GD6RF1043MEKA	M	Door
2-3	HBDGB1002MESA	M	Badge "SHARP"
2-4	HBDGD3006MESA	M	Badge "LINYTRON"
2-5	Hi NDM0158MESA	M	Indication Metal
2-6	Hi NDP1076MEKA	M	Indication Plate
2-7	PKAi - 1080CEK8	J	Door Ruch
3	CFTAR5033WEVO	M	Rear Cover Assembly
3-1	Not Available	—	Rear Cover
3-2	GC6VA1002MEKB	M	CRT Cover
4	JBTN- 1310CEKO	J	Button — TV/CATV



PACKING OF THE SET

• **Setting positions of the knobs**

CATV Band	STD	Aging switch	OFF
Brightness control	Center click	Picture control	10/10
TV/CATV switch	TV	Color control	5/10
AFT switch	ON	Tint control	5/10



A

B

C

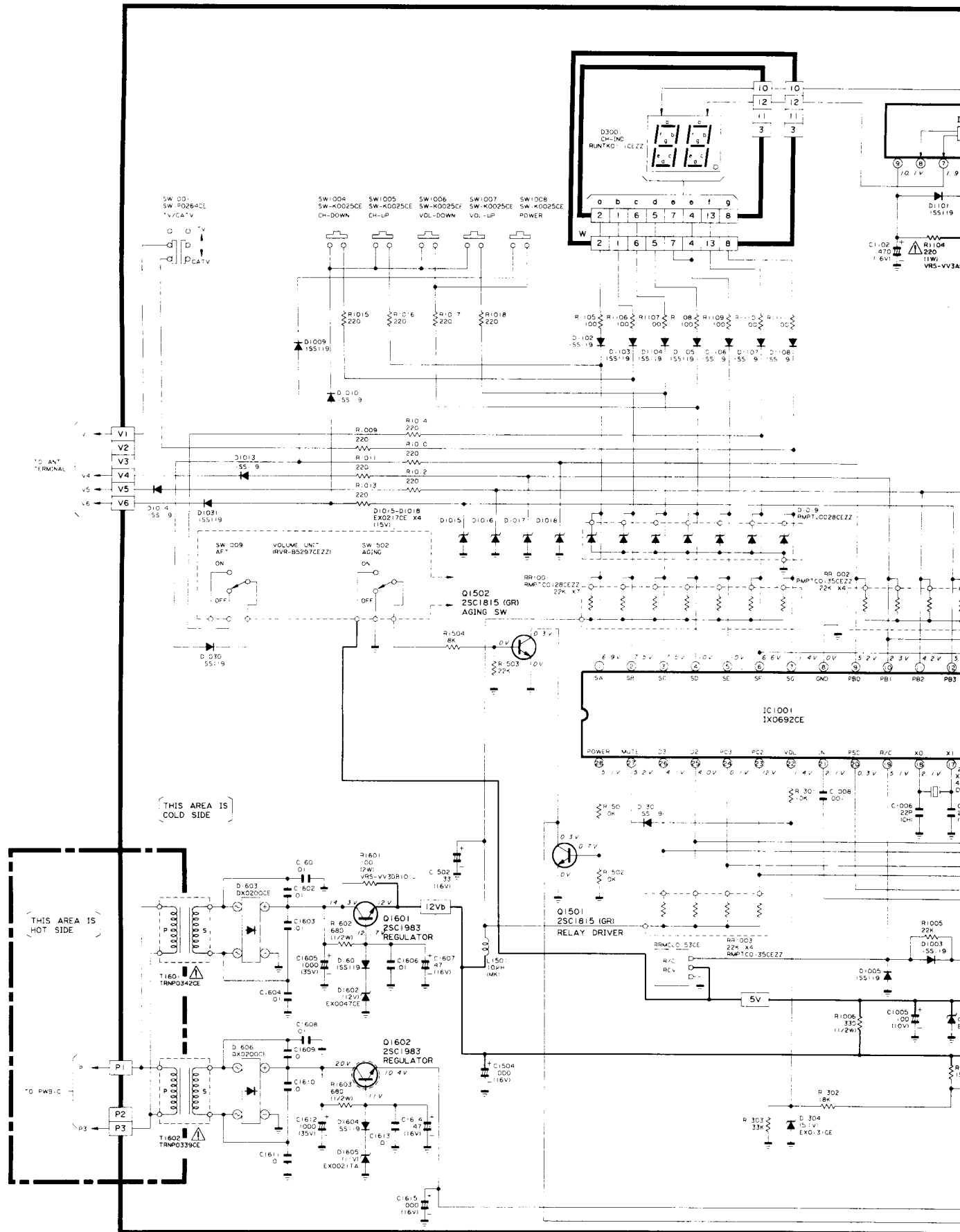
D

E

F

G

H



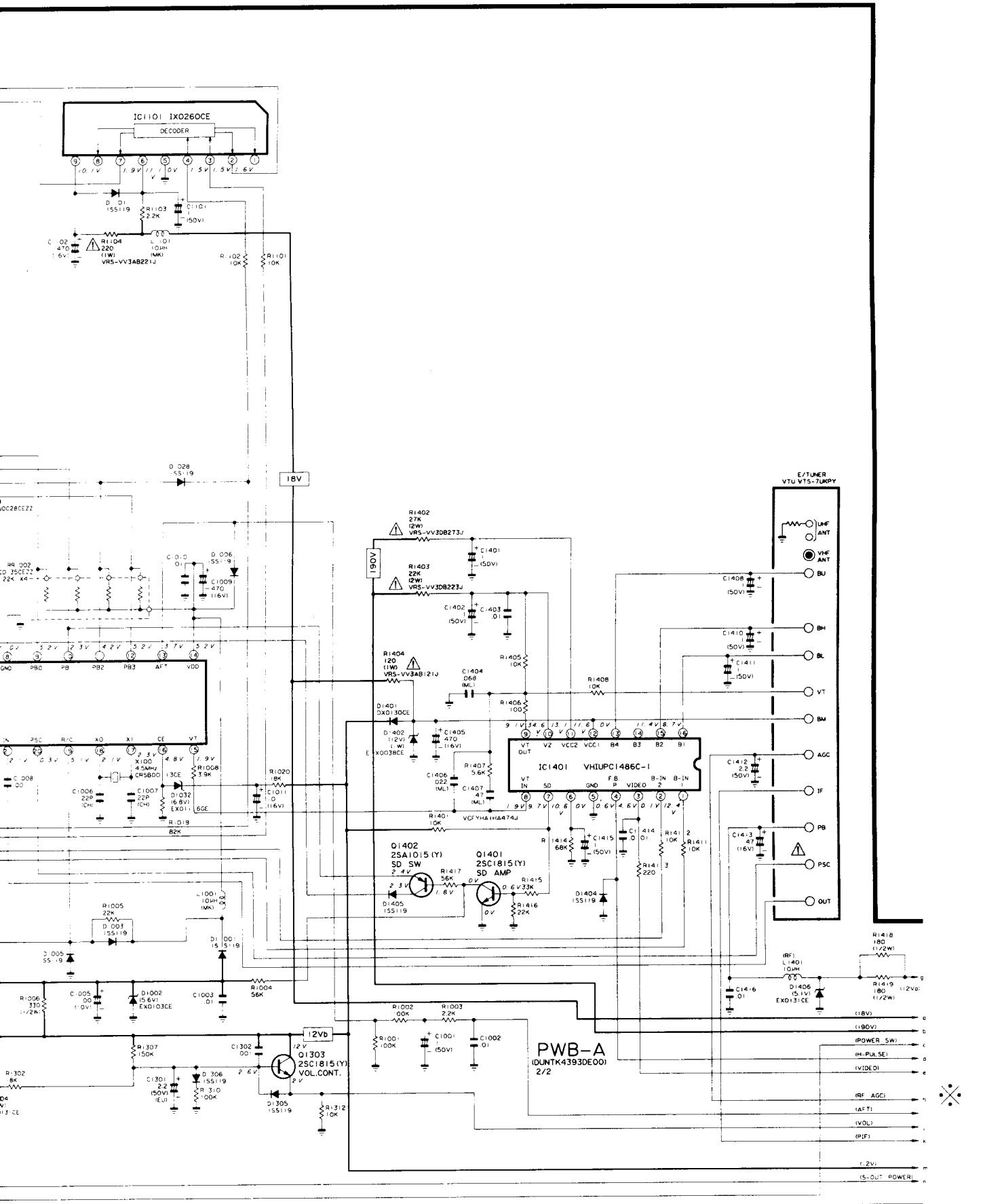
TO ANY
TERMINAL

V1
V2
V3
V4
V5
V6

(THIS AREA IS
COLD SIDE)

(THIS AREA IS
HOT SIDE)

TO PWS-C



7

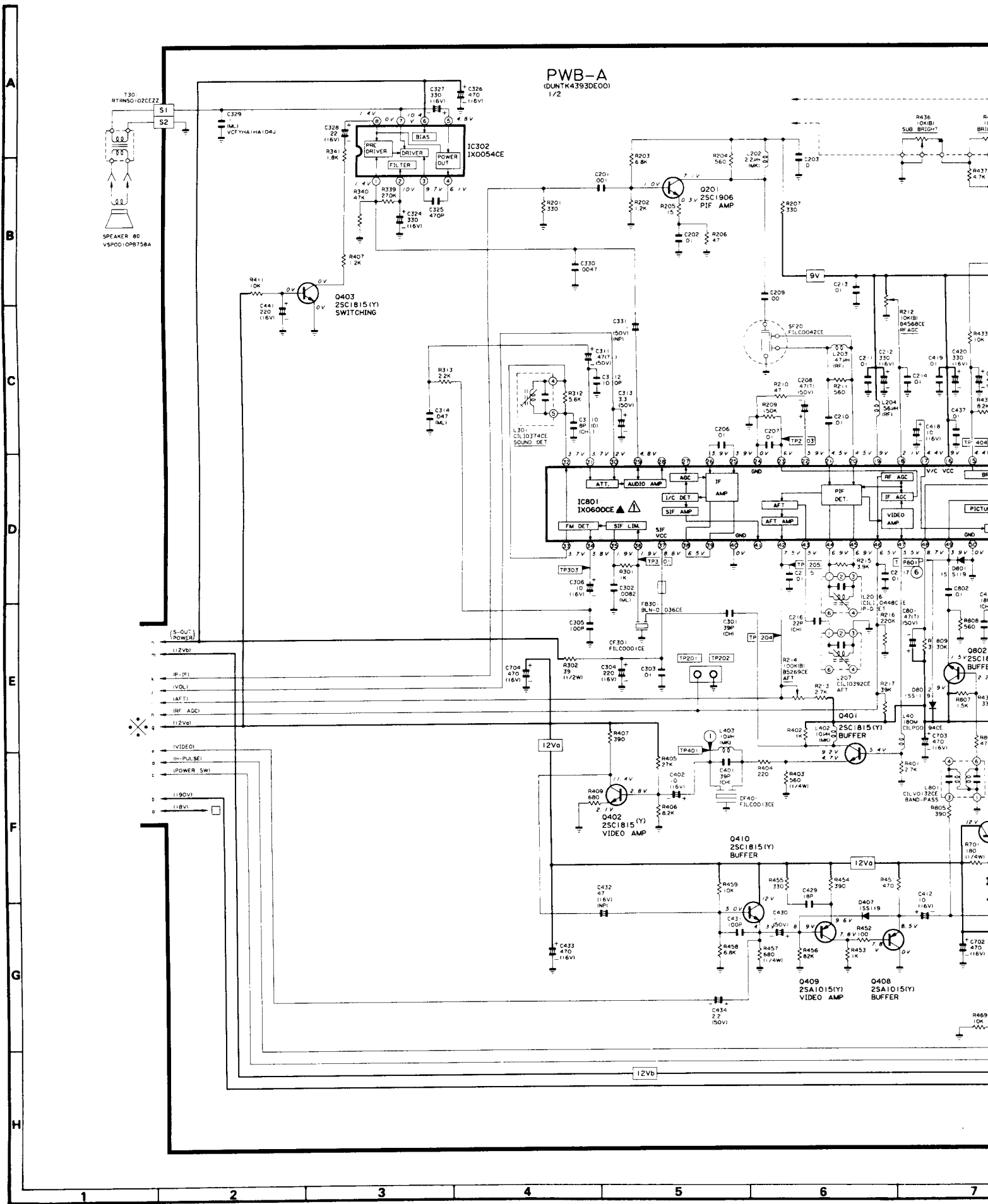
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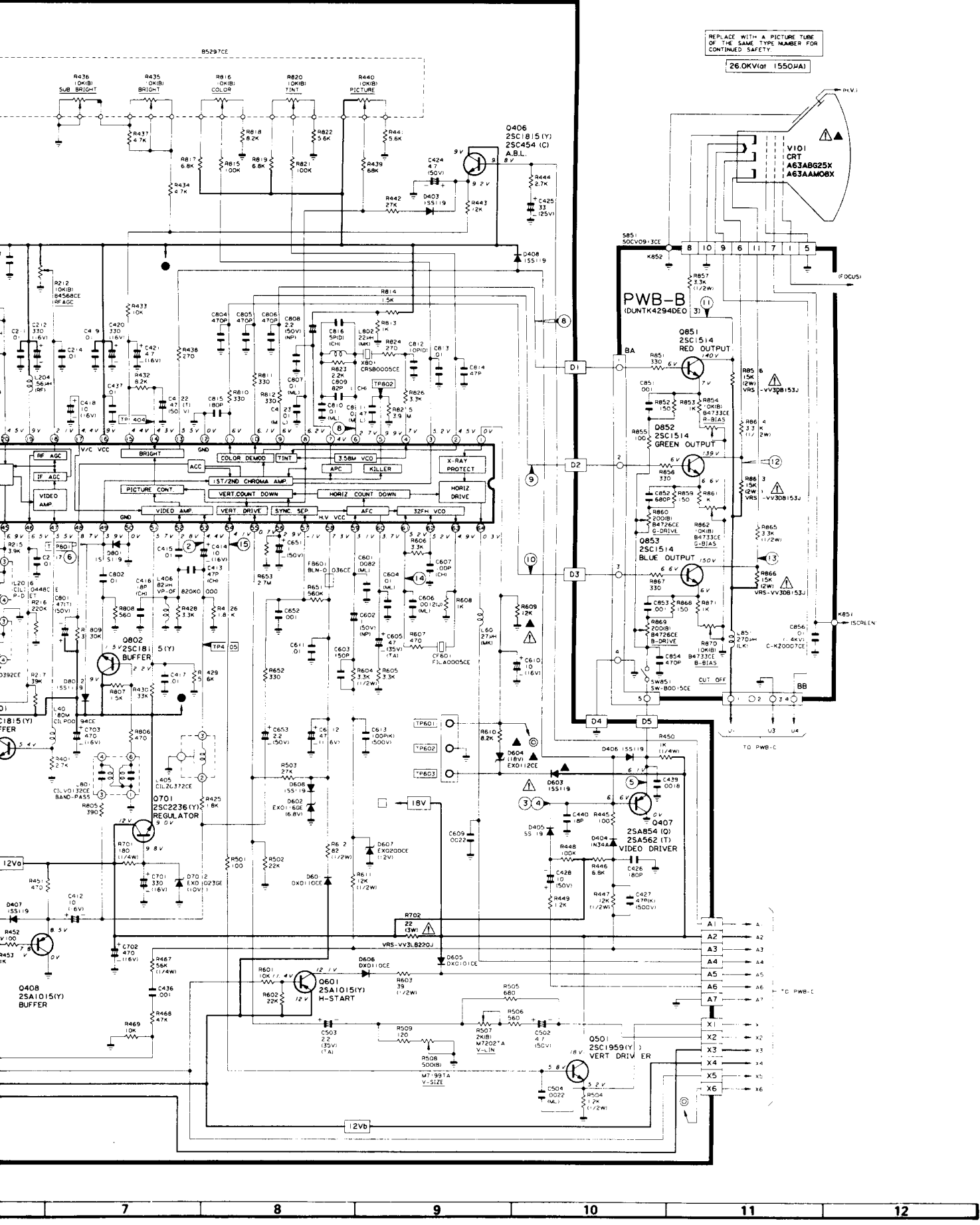
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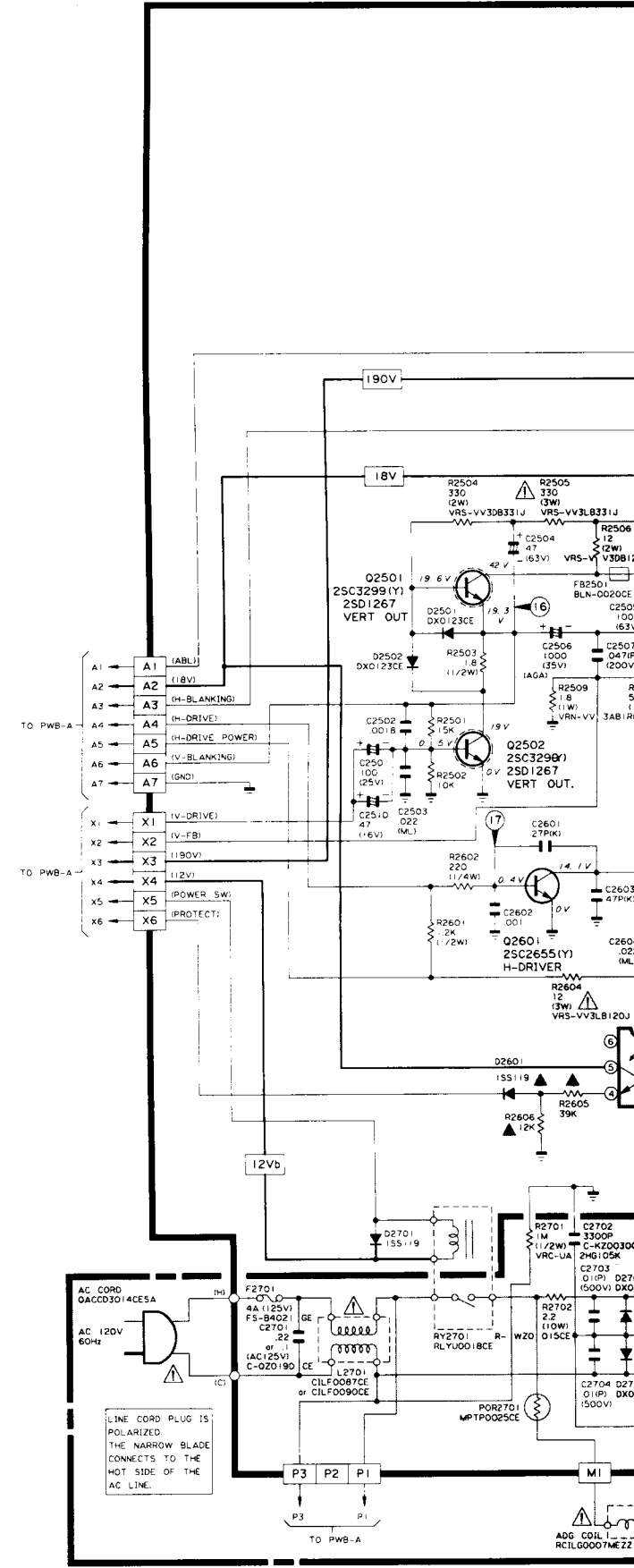
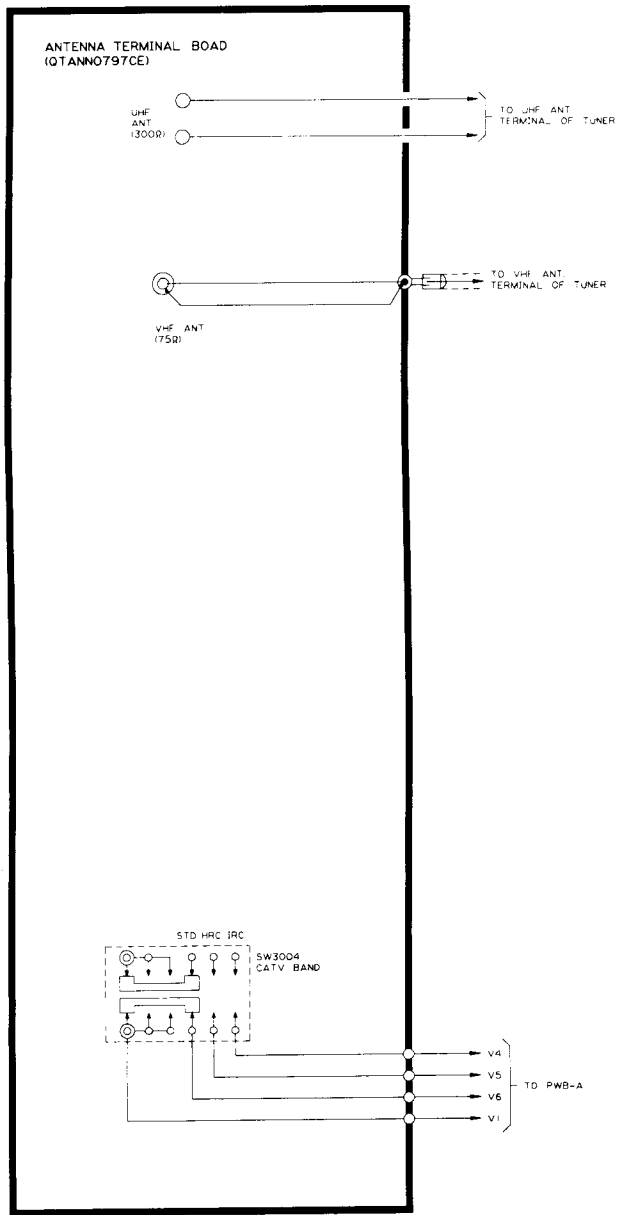
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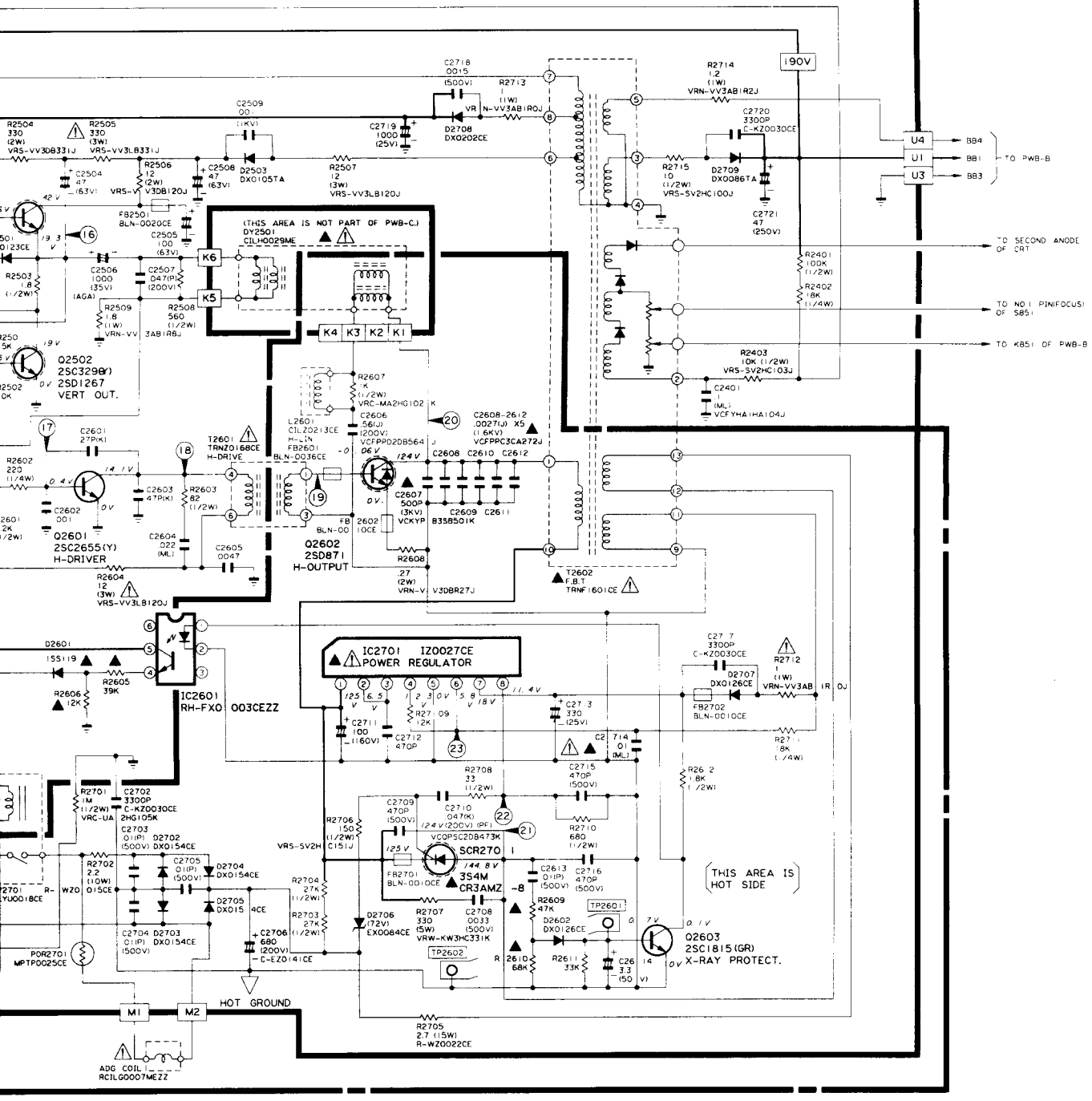
A
B
C
D
E
F
G
H
1 2 3 4 5 6 7



(THIS AREA IS COLD SIDE)

PWB-C

(DUNT K4394DE00)

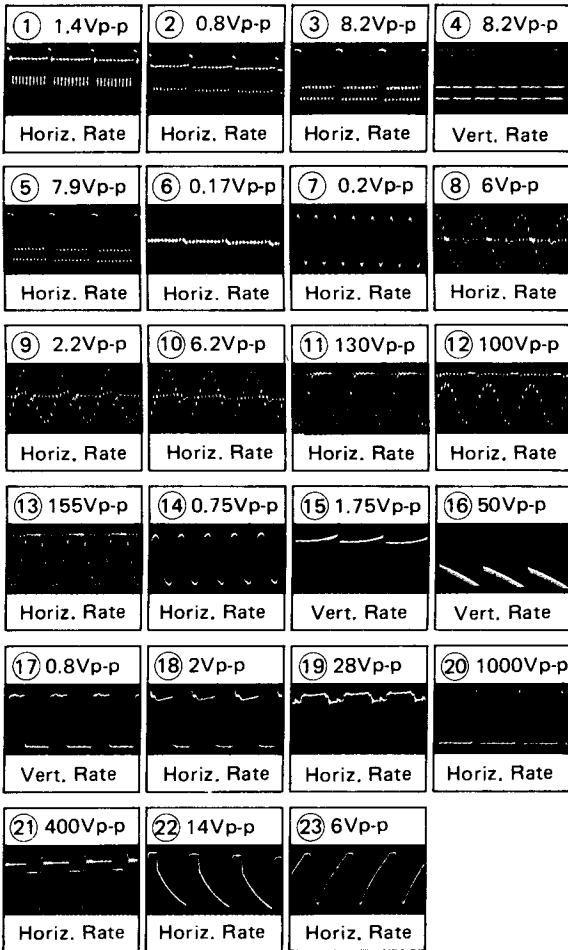


7 8 9 10 11 12

WAVEFORMS

WAVEFORM MEASUREMENT CONDITIONS:

1. Photographs taken on a standard gated rainbow 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. \blacktriangleright indicates wave form check points (See chart, wave-forms are measured from point indicated to chassis ground.)



- NOTE:**
1. The unit of resistance "ohm" is omitted (K: 1000 ohms M:1 Meg ohm).
 2. All resistors are 1/8 watt, unless otherwise noted.
 3. All capacitors are μF , unless otherwise noted P: μF .
 4. (G) indicates $\pm 2\%$ tolerance may be used.
 5. \perp indicates line isolated ground.
 6. ∇ indicates hot ground.

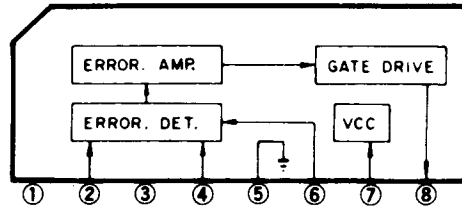
VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with VTVM 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 μV B & W or color signal.

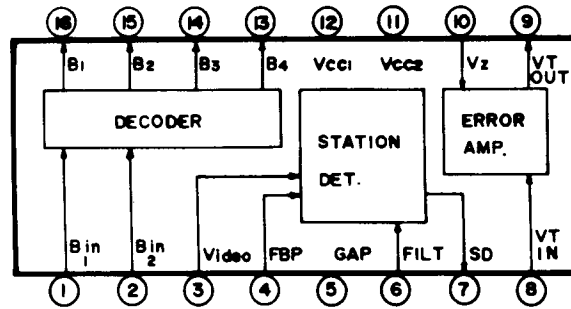
▲ AND SHADED COMPONENTS = SAFETY RELATED PARTS, ▲ MARK = X-RAY RELATED PARTS.

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

IC2701



IC1401



SOLID STATE DEVICE BASE DIAGRAM

