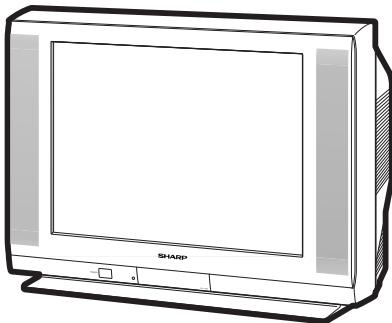


SHARP**SERVICE MANUAL**

S34Q129FL94//

**MODEL****29FL94****COLOR TELEVISION**
Chassis No. GB-3U

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.

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ELECTRICAL SPECIFICATIONS

POWER INPUT	110~220V AC, 50/60 Hz
POWER RATING	145W
PICTURE SIZE	2,193.5 cm ² (339sq inch)
CONVERGENCE	Magnetic
SWEEP DEFLECTION	Magnetic
FOCUS	Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES	
Picture IF Carrier Frequency	45.75 MHz
Sound IF Carrier Frequency	41.25 MHz
Color Sub-Carrier Frequency	42.17 MHz (Nominal)

AUDIO POWER

OUTPUT RATING 7.5W + 7.5W (at 10% distortion and
Dual CH Operate)

SPEAKER	
SIZE	12 x 6 cm oval (2 pcs.)
VOICE COIL IMPEDANCE	8 ohm at 400 Hz
ANTENNA INPUT IMPEDANCE	
VHF/UHF	75 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.

IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.

To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions. It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver. Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION

(Continued)

BEFORE RETURNING THE RECEIVER

(Fire & Shock Hazard)

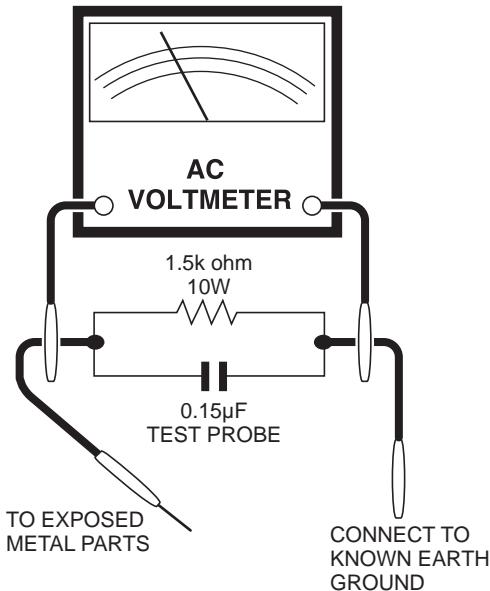
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 110~220 volt AC outlet, (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
 - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



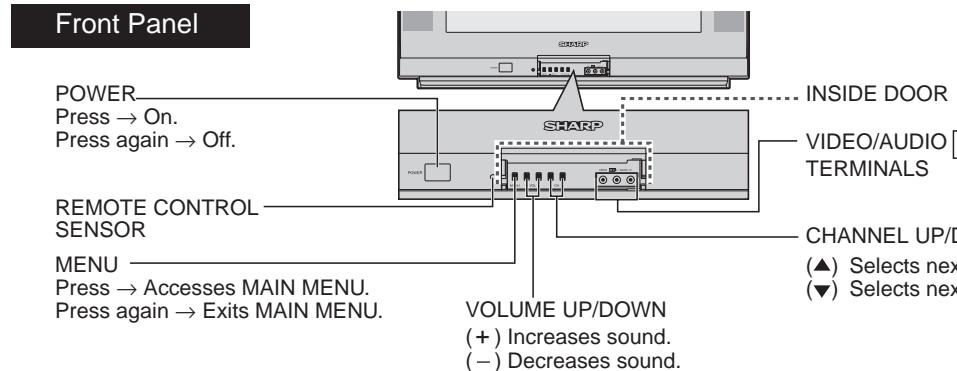
SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

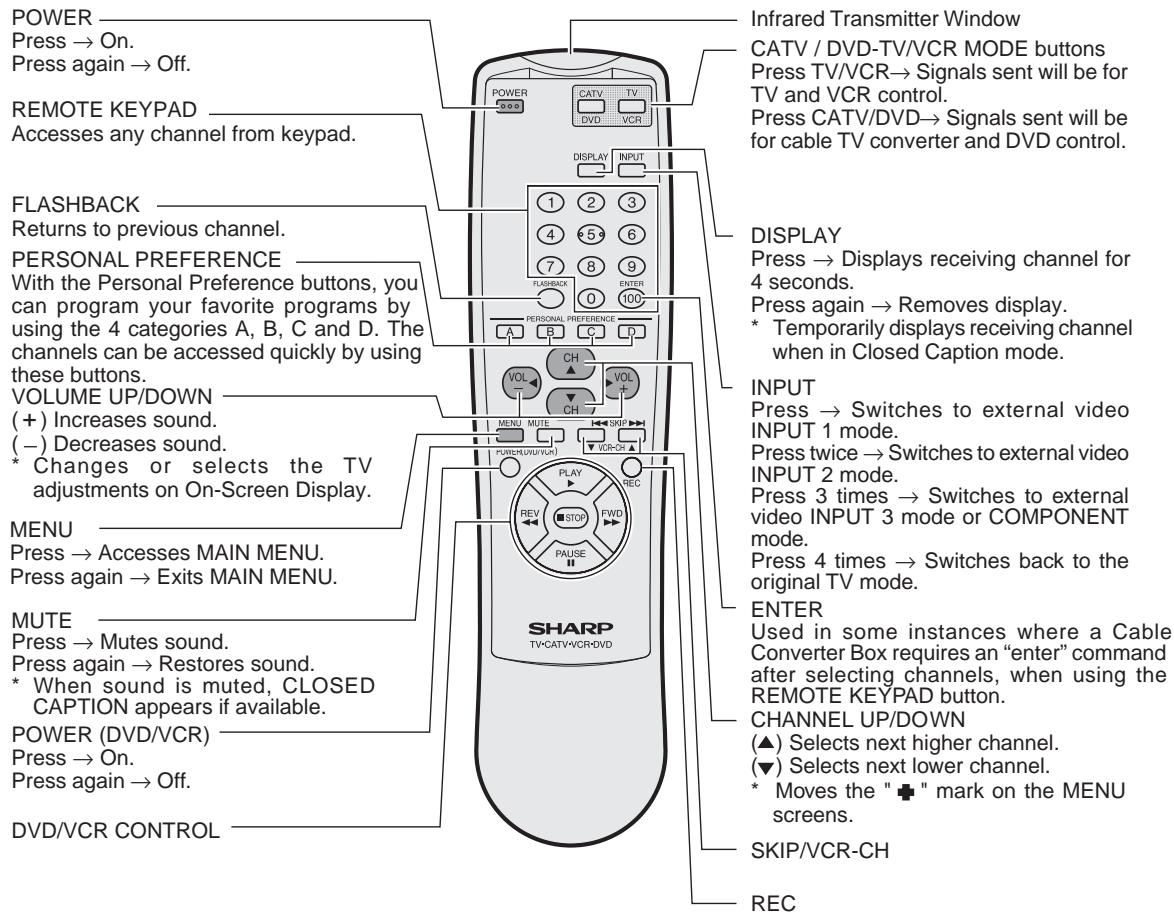
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

LOCATION OF USER'S CONTROL



Basic Remote Control Functions



Note:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

INSTALLATION AND SERVICE INSTRUCTIONS

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

CIRCUIT PROTECTION

The receiver is protected by a 5.0A fuse (F1701), mounted on PWB-G, 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, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1. Apply 110~220V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP653 (P651 Pin3) and make sure that the voltmeter reads 13.85 ± 0.6 V DC.
5. Apply external 17.3V DC at TP653 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 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 between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 110~220V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "V11" and Bus data "01" (Y-mute on, CRT Cut Off).
4. The voltage should be below 31.5kV (at zero beam). If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

Note: There are still a few analog adjustments in this series such as focus and master screen voltage.

Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "V01" to "M20". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or Vol-down button to adjust the data number.

To enter the service mode and exit service mode.

To enter the service mode manually just press and hold the Vol-down and Ch-up buttons at the same time, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

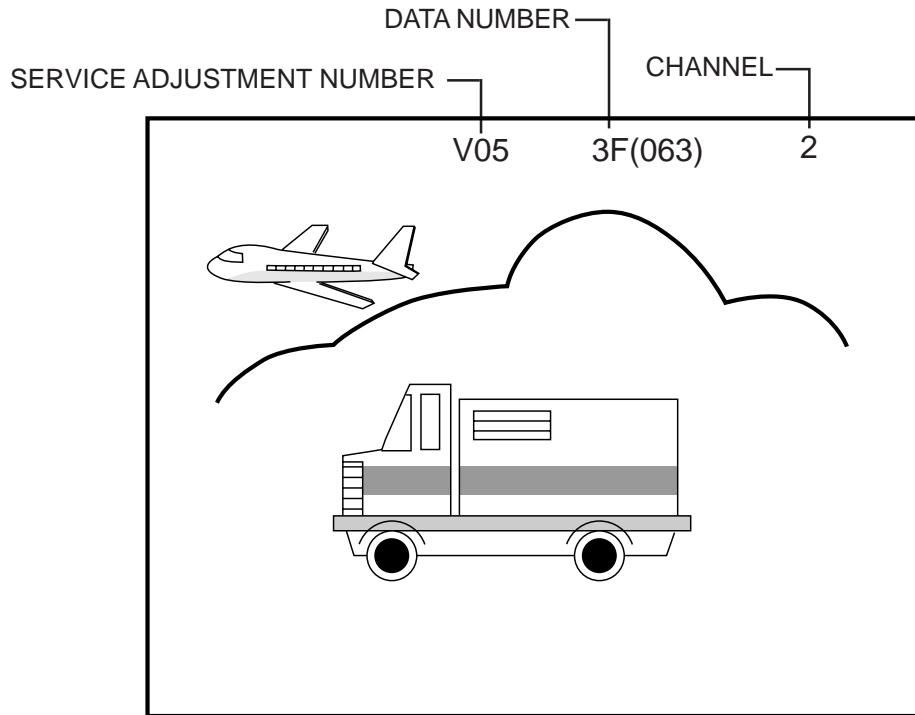


Figure A.

A. VCJ IC ADJUSTMENT

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
V01	PICTURE	0-15 (00h-0Fh)	8 (08h)		
V02	TINT	0-127 (00h-7Fh)	66 (42h)		
V03	COLOR	0-127 (00h-7Fh)	56 (38h)		
V05	BRIGHT	0-127 (00h-7Fh)	64 (40h)		
V06	R CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V07	G CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V08	B CUT-OFF	64-255 (40h-FFh)	64 (40h)		
V09	G/R DRIVE	0-127 (00h-7Fh)	64 (40h)		
V10	B DRIVE	0-127 (00h-7Fh)	64 (40h)		
V11	Y-MUTE/V-STOP	0-2	0 (00h)	Y-Mute / Horizontal “—”	
V12	SHARP	0-63 (00h-3Fh)	50 (32h)		32
V13	DC RESTORATION	0-3 (00h-03h)	2 (02h)		02
V14	BLACK STRETCH	0-3 (00h-03h)	2 (02h)		02
V15	ABL START POINT	0-3 (00h-03h)	3 (03h)		03
V16	ABL GAIN	0-3 (00h-03h)	2 (02h)		02
V17	γ POINT	0-3 (00h-03h)	0 (00h)		00
V19	ENERGY SAVE	0-63 (00h-3Fh)	63 (3Fh)	Offset	3F
V24	LOW-G	0-255 (00h-FFh)	12 (0Ch)	Color Temp.	F4
V25	LOW-B	0-255 (00h-FFh)	241 (F1h)	Color Temp.	E6
V26	ML-G	0-255 (00h-FFh)	0 (00h)	Color Temp.	FD
V27	ML-B	0-255 (00h-FFh)	247 (F7h)	Color Temp.	F8
V28	HIGH-G	0-255 (00h-FFh)	2 (02h)	Color Temp.	01
V29	HIGH-B	0-255 (00h-FFh)	8 (08h)	Color Temp.	06
V30	WPL	0-1	1 (01h)		01
V31	RGB CONTRAST	0-63 (00h-3Fh)	59 (3Bh)		3B
V34	VSM GAIN	0-3 (00h-03h)	1 (01h)		01
V36	BPF/TOF-INPUT	0-1	0 (00h)	External Input	00
V37	CORING	0-1	0 (00h)		00
V38	VSM PHASE	0-1	0 (00h)		00
V39	COLOR γ	0-1	0 (00h)		00
V40	SHARP-INPUT	0-63 (00h-3Fh)	44 (2Ch)	External Input	2C
V41	TINT-INPUT	0-127 (00h-7Fh)	62 (3Eh)	External Input	3E
V42	PICTURE-COMPONENT	0-15 (00h-0Fh)	6 (06h)	Component Input	
V43	TINT-COMPONENT	0-127 (00h-7Fh)	62 (3Eh)	Component Input	3E
V44	COLOR-COMPONENT	0-127 (00h-7Fh)	72 (48h)	Component Input	48
V45	BRIGHT-COMPONENT	0-127 (00h-7Fh)	84 (54h)	Component Input	
V46	R CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V47	G CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V48	B CUT OFF-COMPONENT	64-255 (00h-FFh)	64 (40h)	Component Input	
V49	G/R DRIVE-COMPONENT	0-127 (00h-7Fh)	64 (40h)	Component Input	
V50	B DRIVE-COMPONENT	0-127 (00h-7Fh)	64 (40h)	Component Input	
V51	SHARP-COMPONENT	0-63 (00h-3Fh)	44 (2Ch)	Component Input	2C
V52	TINT-S	0-127 (00h-7Fh)	62 (3Eh)	Component Input	3E
V53	C-TRAP	0-1 (00h-01h)	0 (00h)		00
V59	AUTO FRESH	0-1 (00h-01h)	0 (00h)		00
V60	SHARP P F	0-1 (00h-01h)	1 (01h)		01
V61	CD MATRIX	0-3 (00h-03h)	2 (02h)		02
V62	B-Y ATT	0-1 (00h-01h)	0 (00h)		00
V63	R-Y ATT	0-1 (00h-01h)	0 (00h)		00
V64	CD MATRIX COMPONENT	0-3 (00h-03h)	0 (00h)	Component Input	00
V65	B-Y ATT-COMPONENT	0-1 (00h-01h)	0 (00h)	Component Input	00
V66	R-Y ATT-COMPONENT	0-1 (00h-01h)	0 (00h)	Component Input	00
V67	BUZZ	0-1 (00h-01h)	1 (01h)		01
V68	RGB ABCL	0-1 (00h-01h)	1 (01h)		01
V69	PICTURE-VCOMP	0-100 (00h-64h)	47 (2Fh)	16:9 Format (Offset)	2F
V70	COLOR-VCOMP	0-100 (00h-64h)	50 (32h)	16:9 Format (Offset)	32
V71	BRIGHT-VCOMP	0-100 (00h-64h)	51 (33h)	16:9 Format (Offset)	33
R01	RF-AGC	0-63 (00h-3Fh)	36 (24h)		
R03	RF-AGC REF	0-255 (00h-FFh)	170 (AAh)	Standard value for the self-adjustment	AA
D01	V POSITION	0-7 (00h-07h)	0 (00h)		00
D02	H POSITION	0-31 (00h-1Fh)	15 (0Fh)		
D03	V SIZE	0-127 (00h-7Fh)	89 (59h)		
D04	H SIZE	0-63 (00h-3Fh)	36 (24h)		
D05	V-LINEARITY	0-15 (00h-0Fh)	8 (08h)		
D06	V-S CORRECTION	0-15 (00h-0Fh)	12 (0Ch)		0C
D07	EW PARABOLA	0-63 (00h-3Fh)	43 (2Bh)		
D08	EW TRAPEZIUM	0-63 (00h-3Fh)	36 (24h)		
D10	AFC GAIN	0-3 (00h-03h)	2 (02h)		02
D11	V EHT	0-7 (00h-07h)	6 (06h)		06
D12	H EHT	0-7 (00h-07h)	6 (06h)		06
D13	EW CORNER	0-31 (00h-1Fh)	8(08h)		08

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
D14	EW CORNER BOTTOM	19-81 (13h-51h)	50 (32h)	Offset toward D13.	32
D15	NOISE DET LEVEL	0-3 (00h-03h)	0 (00h)		00
D18	V CENTERING	0-63 (00-3Fh)	36 (24h)		
D19	V-AGC	0-1 (00h-01h)	0 (00h)		00
D20	V POSITION-VCOMP	0-7 (00h-07h)	0 (00h)		00
D21	H POSITION-VCOMP	0-31 (00h-1Fh)	15 (0Fh)	16:9 Format	
D22	V SIZE-VCOMP	0-127 (00h-7Fh)	52 (34h)	16:9 Format	
D23	H SIZE-VCOMP	0-63 (00h-3Fh)	36 (24h)	16:9 Format	
D24	V-LINEARITY-VCOMP	0-15 (00h-0Fh)	8 (08h)	16:9 Format	
D25	V-C CORRECTION-VCOMP	0-15 (00h-0Fh)	10 (0Ah)	16:9 Format	
D26	EW PARABOLA-VCOMP	0-63 (00h-3Fh)	22 (16h)	16:9 Format	
D27	EW TRAPEZIUM-VCOMP	0-63 (00h-3Fh)	35 (23h)	16:9 Format	
D28	V EHT-VCOMP	0-7 (00h-07h)	6 (06h)	16:9 Format	06
D29	H EHT-VCOMP	0-7 (00h-07h)	6 (06h)	16:9 Format	06
D30	EW CORNER-VCOMP	0-31 (00h-1Fh)	12 (0Ch)	16:9 Format	0C
D31	EW CORNER BOTTOM-VCOMP	19-81 (13h-51h)	50 (32h)	Offset toward D30.	32
D32	V BLK UPPER-VCOMP	0-3 (00h-03h)	2 (02h)	16:9 Format	02
D33	V BLK LOWER-VCOMP	0-3 (00h-03h)	2 (02h)	16:9 Format	02
D34	V CENTERING-VCOMP	0-63 (00h-3Fh)	36 (24h)	16:9 Format	

B. SPECIAL SETTING

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
EX1	FAO VOLUME	0-50 (00h-32h)	36 (24h)		24
EX2	CC-POSITION	0-127 (00h-7Fh)	27 (1Bh)		
EX3	INT	0-255 (00h-FFh)	122 (7Ah)	Interrupt period adjustment.	7A
EX4	A-ATT	0-127 (00h-7Fh)	90 (5Ah)		5A
EX5	TUNER data	0-3 (00h-03h)	0 (00h)		00
EX6	Think chip-Slice LEVEL	0-255 (00h-FFh)	54 (36h)		12
EX7	RLY DELAY TIME	0-255 (00h-FFh)	0 (00h)	For the power control	00
EX8	ADG ON TIME	0-255 (00h-FFh)	10 (0Ah)	For the power control	0A

C. OPTION SETTING

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
OP1	OPTION1	0-255 (00h-FFh)	245 (F5h)		C5
OP2	OPTION2	0-255 (00h-FFh)	188 (BCh)		BE
OP3	OPTION3	0-255 (00h-FFh)	15 (0Fh)		07

D. SOUND ADJUSTMENT

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		NOTES	FIXED VALUE (HEX)
		RANGE	INITIAL VALUE		
M01	INPUT LEVEL	0-15 (00h-0Fh)	7 (07h)		
M02	MTS VCO	0-63 (00h-3Fh)	38 (26h)		
M03	FILTER	0-63 (00h-3Fh)	36 (24h)		
M04	WIDEBAND	0-63 (00h-3Fh)	28 (1Ch)		
M05	SPECTRAL	0-63 (00h-3Fh)	23 (17h)		
M09	SRS LEVEL	0-255 (00h-FFh)	224 (E0h)		E0
M10	BBE LEVEL	0-255 (00h-FFh)	217 (D9h)		D9
M11	SRS & BBE LEVEL	0-255 (00h-FFh)	208 (D0h)		D0
M12	SRS & BBE OFF LEVEL	0-255 (00h-FFh)	228 (E4h)		E4
M13	SRS Effect	2-3 (02h-03h)	2 (02h)		02
M14	BBE-L Effect	0-15 (00h-0Fh)	15 (0Fh)		0F
M15	BBE-H Effect	0-15 (00h-0Fh)	15 (0Fh)		0F
M16	AGC Level	0-7 (00h-07h)	1 (01h)		01
M17	BASS Offset	0-31 (00h-1Fh)	15 (0Fh)		0F
M18	TREBLE Offset	0-31 (00h-1Fh)	15 (0Fh)		0F
M19	BASS Offset-BBE	0-31 (00h-1Fh)	17 (11h)		11
M20	TREBLE Offset-BBE	0-31 (00h-1Fh)	16 (10h)		10

Holding down both the VOL-up and CH-up buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	X		Holding down both the VOL-up and CH-up buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101 Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M20).

SERVICE ADJUSTMENT

RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "R01".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

Note 1 : You will have to come out of the service mode to select another channel.

Note 2 : Setting the data to "00" will produce a black raster.

Screen Adjustment

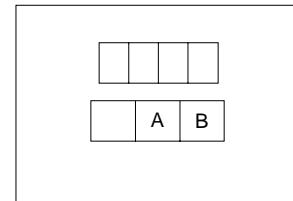
1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "V03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "V11" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
5. Adjust the service adjustments "V06" red, "V07" green and "V08" blue to obtain a good grey scale with normal whites at low brightness level.
6. Select the service adjustment "V11" and reset data to "00". Select the service adjustment "V03" and reset data to obtain normal color level.
7. For component input, the data value of "V46" red, "V47" green and "V48" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
8. Reset the master screen control to obtain normal brightness range.

White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set to "00" (minimum color)(Record original data code under adjustment "V03" before changing). "V03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "V09" and "V10" until a good grey scale with normal whites is obtained. (RF Input)
4. For component input, the data value of "V49" and "V50" is adjusted to follow the data value of "V09" and "V10" respectively.
5. Select the service adjustment "V03" and reset data to obtain normal color level.

Sub-picture and Sub-Bright Adjustments

1. Receive the window pattern signal.
- RF INPUT (TU51)
 2. Get into service adjustment data "V01" and "V05" and set the luminance as shown in figure "A" and "B" as below respectively.
- COMPONENT INPUT
 3. Get in service adjustment data "V42" and "V45" and set the luminance as shown in figure "A" and "B" as below respectively.

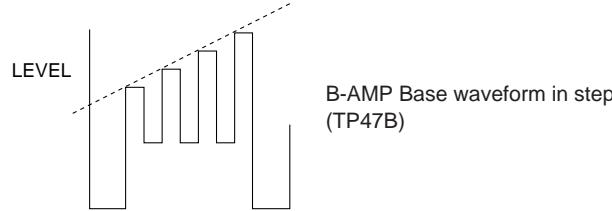


LUMINESCENCE CONFIRMATION

A: $120 \pm 10 \text{ cd/m}^2$
B: $1.5 \pm 0.5 \text{ cd/m}^2$

Sub-Tint Adjustment

1. Receive the half color bar signal.
- RF INPUT (TU51)
2. Get into Y-Mute by R/C, or by setting the "V11" bus data to "01".
3. Vary the "V02" bus data until the waveform becomes as stated below.



Sub-Color Adjustment

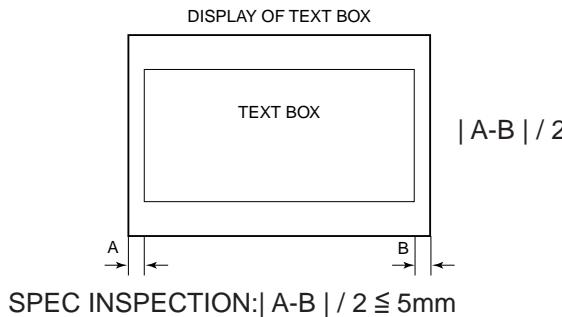
1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
- RF INPUT (TU51)
3. Enter the service mode and select service adjustment "V03".
4. Adjust "V03" data value to obtain a normal color level.

Focus Adjustment

1. Receive a good local channel.
2. Adjust the FOCUS VR of the flyback transformer to make the image as fine as possible.

C. C Display Position Adjustment

1. Receive the lion head pattern signal.
2. Select "EX2" to display the text box.
3. Adjust the "EX2" bus data to let the text box displayed in the center.



Vertical-Size and Linearity Adjustments

1. Receive a good local channel.
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D03" for V-size.
3. Adjust the "D03" bus data to get the proper V-size.
4. For V-linearity adjustment, select data bus "D05" and adjust to get the proper vertical linearity.
(SCREEN FORMAT 16:9)
5. Input data of "D22" to mines 38 step from "D03" data.
(V-SIZE)
6. Input data of "D24" same as "D05" data. (V-LIN)

Note: Aging for 10 min before adjustment. After the adjustment of V-center and V-size, re-adjustment for this V-line.

Vertical Phase Adjustment

(SCREEN FORMAT 4:3)

1. Enter the service mode and input data of "00h" on "D01".
2. Adjust "D18" data value so that picture is centered.
(SCREEN FORMAT 16:9)
3. Input data of "00h" on "D20".
4. Input data of "D34" same as "D18" data.

Horizontal Position Adjustment

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D02".
3. Adjust "D02" data value so that picture is centered.
(SCREEN FORMAT 16:9)
4. Input data of "D21" same as "D02" data.

Horizontal-Size Adjustment

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D04" for H-size.
3. Adjust the "D04" bus data to get the proper H-size.
(SCREEN FORMAT 16:9)
4. Input data of "D23" same as "D04" data.

EW-Parabola

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D07" for EW parabola.
3. Adjust the "D07" bus data to get the proper vertical straight line for both left and right side.
(SCREEN FORMAT 16:9)
4. Input data of "D26" to mines 21 step from "D07" data.

EW-Trapezium

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D08" for EW-Trapezium.
3. Adjust the "D08" bus data to get the best position display.
(SCREEN FORMAT 16:9)
4. Input data of "D27" same as "D08" data.

■ MTS ADJUSTMENT

MTS Level Adjustment

1. Set the sound volume above 1.
Monoral signal: 400Hz, 100% modulation
2. Confirm "EX4" data is "5Ah".
3. Vary the "M01" bus data until the voltage to pin (39) of IC3001 to become the value as stated below.

SETTING VOLTAGE

ADJ spec : $490 \pm 10\text{mVrms}$

CHK spec: $490 \pm 20\text{mVrms}$

Separation Adjustment

1. Input "SIGNAL 1" and vary the "M04" bus data to get the minimum AC voltage to pin (39) of IC3001.
2. Input "SIGNAL 2" and vary the "M05" bus data to get the minimum AC voltage to pin (39) of IC3001.
SIGNAL 1: 300Hz, 30% modulation, Lch only, NR-ON
SIGNAL 2: 3kHz, 30% modulation, Lch only, NR-ON

Note: SIGNAL 1 Adj. for wideband

SIGNAL 2 Adj. for spectral

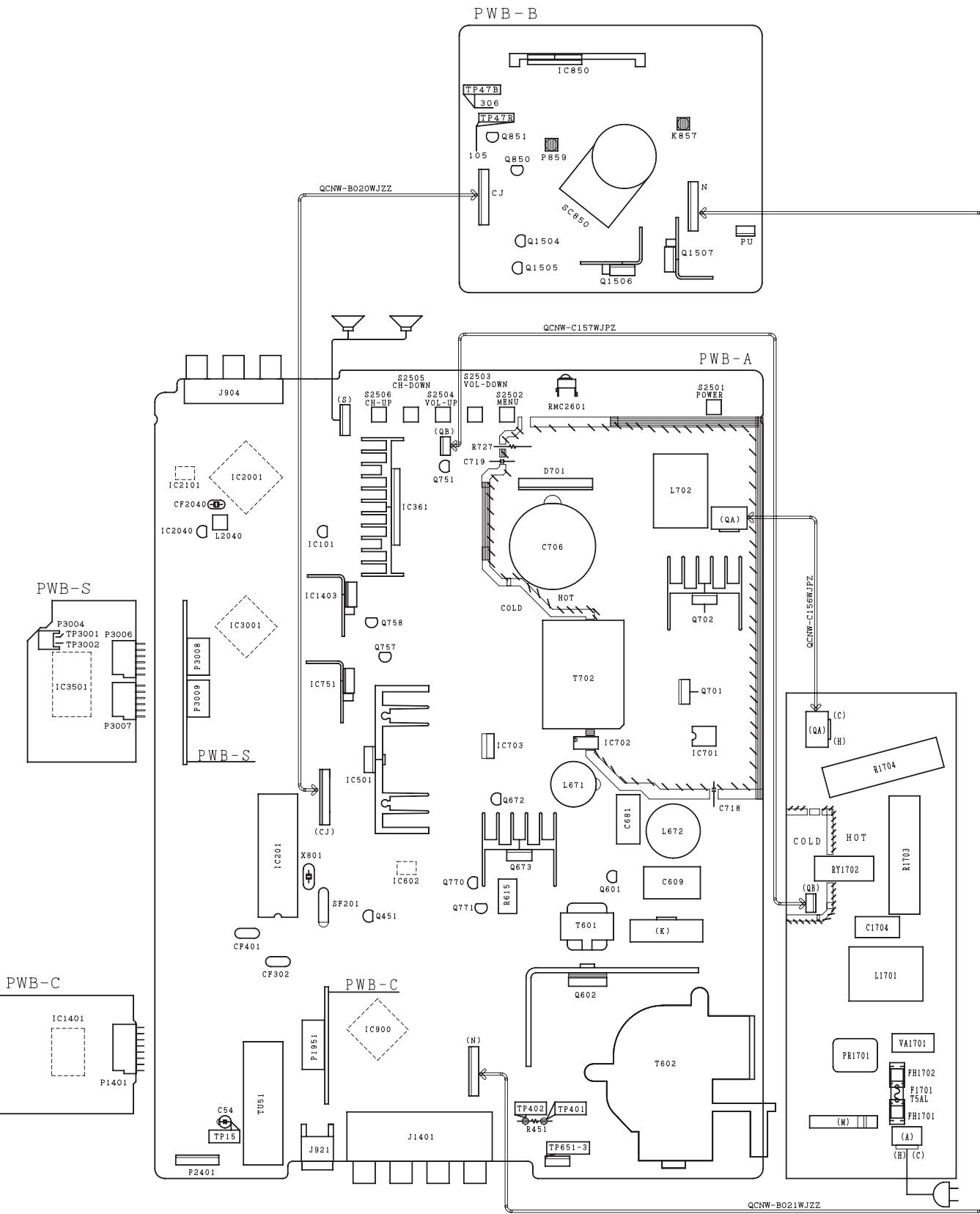
Check the output of the speaker at the maximum volume as stated below.

Confirmation spec:

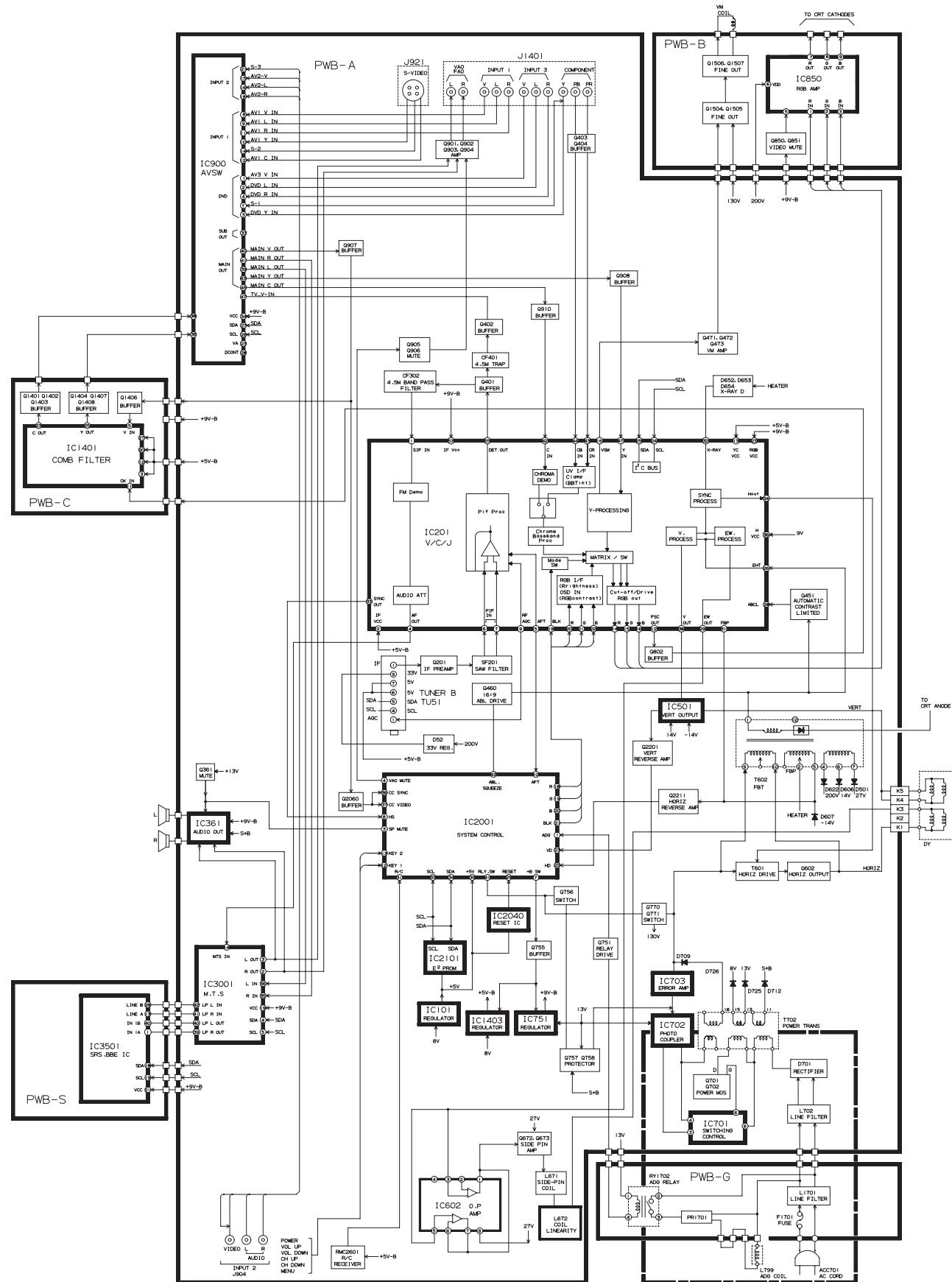
ADJ spec: above 25 dB

CHK spec: above 20 dB

CHASSIS LAYOUT



BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. The unit of resistance "ohm" is omitted.
($K=kW=1000W$, $M=MW$)
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. --- 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 110-220V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with $1000\mu V$ B & W or Color signal.

WAVEFORM MEASUREMENT CONDITIONS:

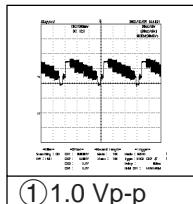
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  indicates waveform check points (See chart, waveforms are measured from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

 AND SHADED () COMPONENTS
= SAFETY RELATED PARTS.

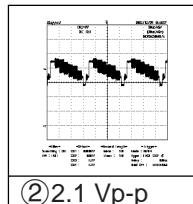
 MARK= X-RAY RELATED PARTS.

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

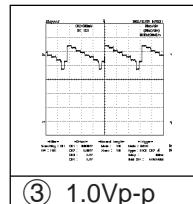
WAVEFORMS



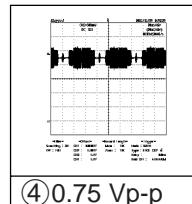
① 1.0 Vp-p



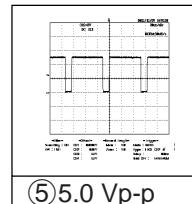
② 2.1 Vp-p



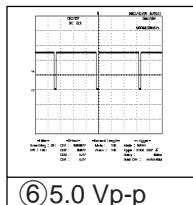
③ 1.0 Vp-p



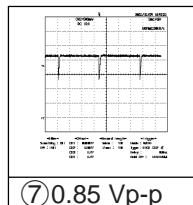
④ 0.75 Vp-p



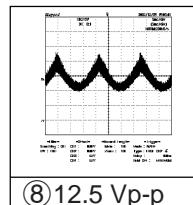
⑤ 5.0 Vp-p



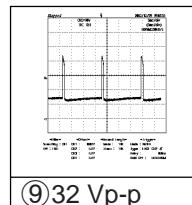
⑥ 5.0 Vp-p



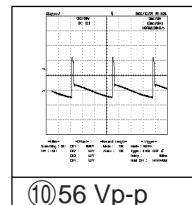
⑦ 0.85 Vp-p



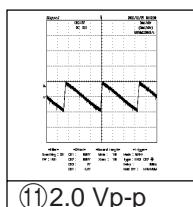
⑧ 12.5 Vp-p



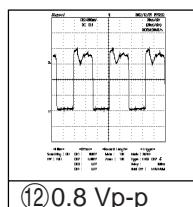
⑨ 32 Vp-p



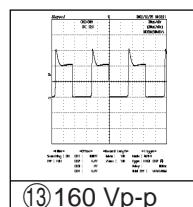
⑩ 56 Vp-p



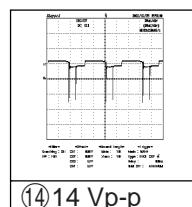
⑪ 2.0 Vp-p



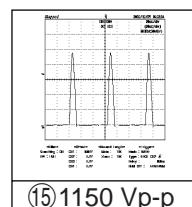
⑫ 0.8 Vp-p



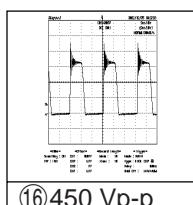
⑬ 160 Vp-p



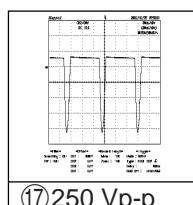
⑭ 14 Vp-p



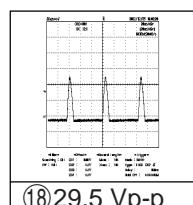
⑮ 1150 Vp-p



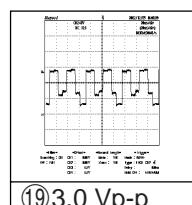
⑯ 450 Vp-p



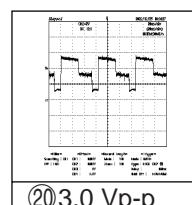
⑰ 250 Vp-p



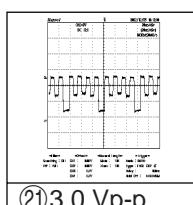
⑱ 29.5 Vp-p



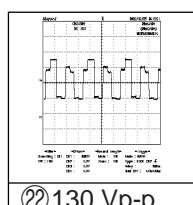
⑲ 3.0 Vp-p



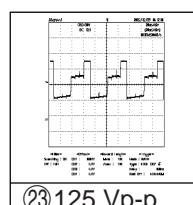
⑳ 3.0 Vp-p



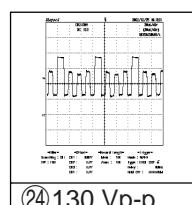
㉑ 3.0 Vp-p



㉒ 130 Vp-p

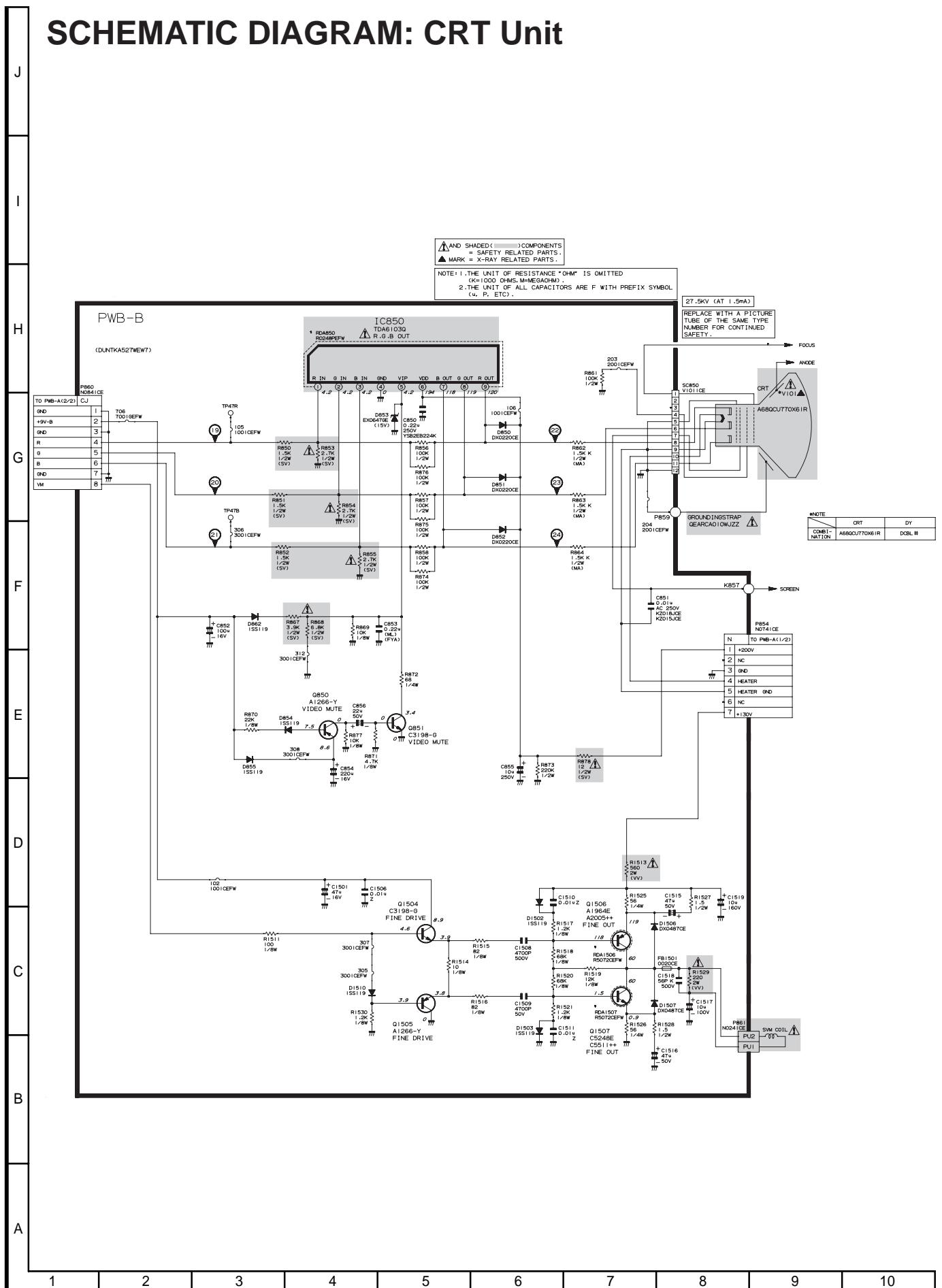


㉓ 125 Vp-p

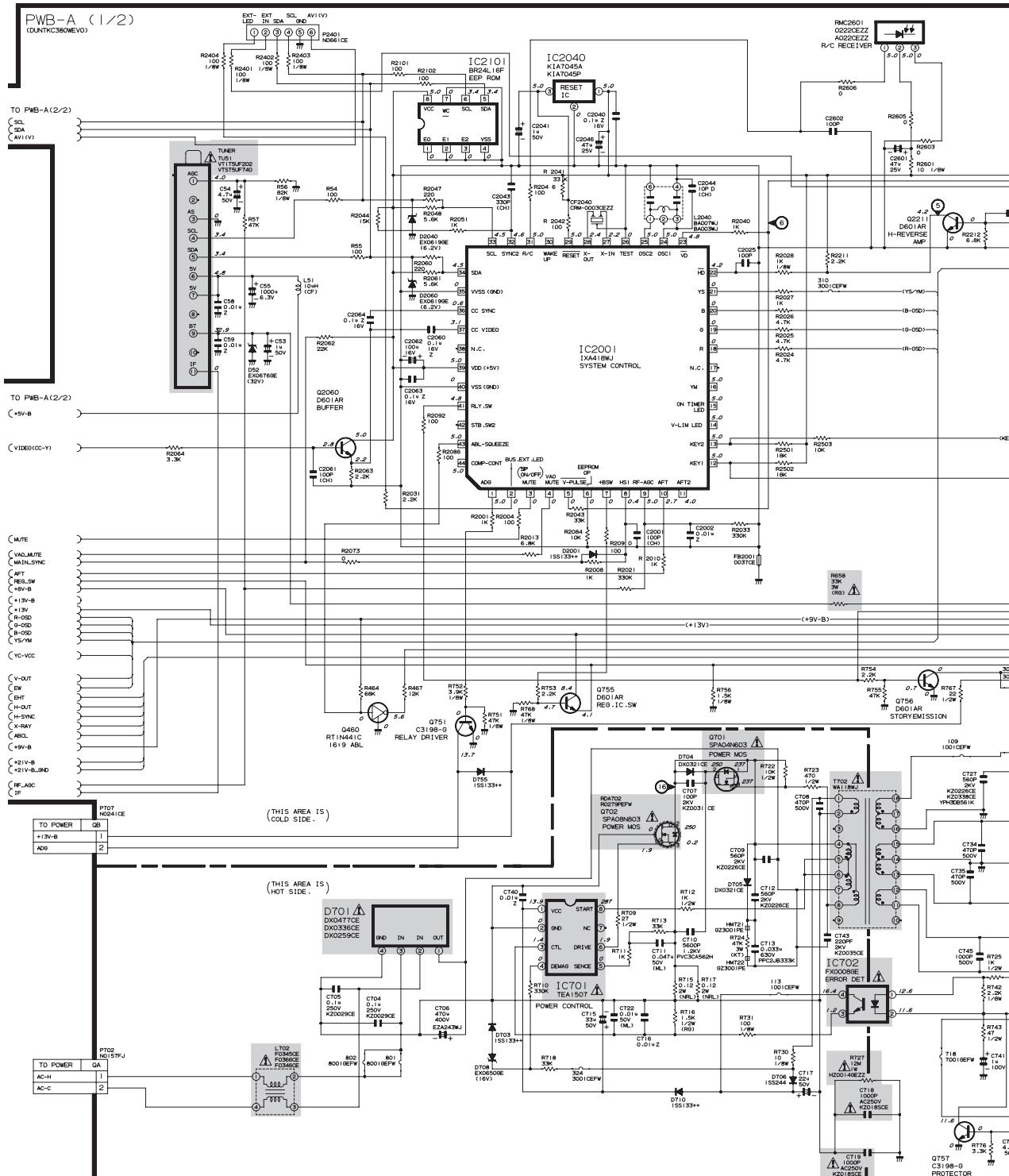


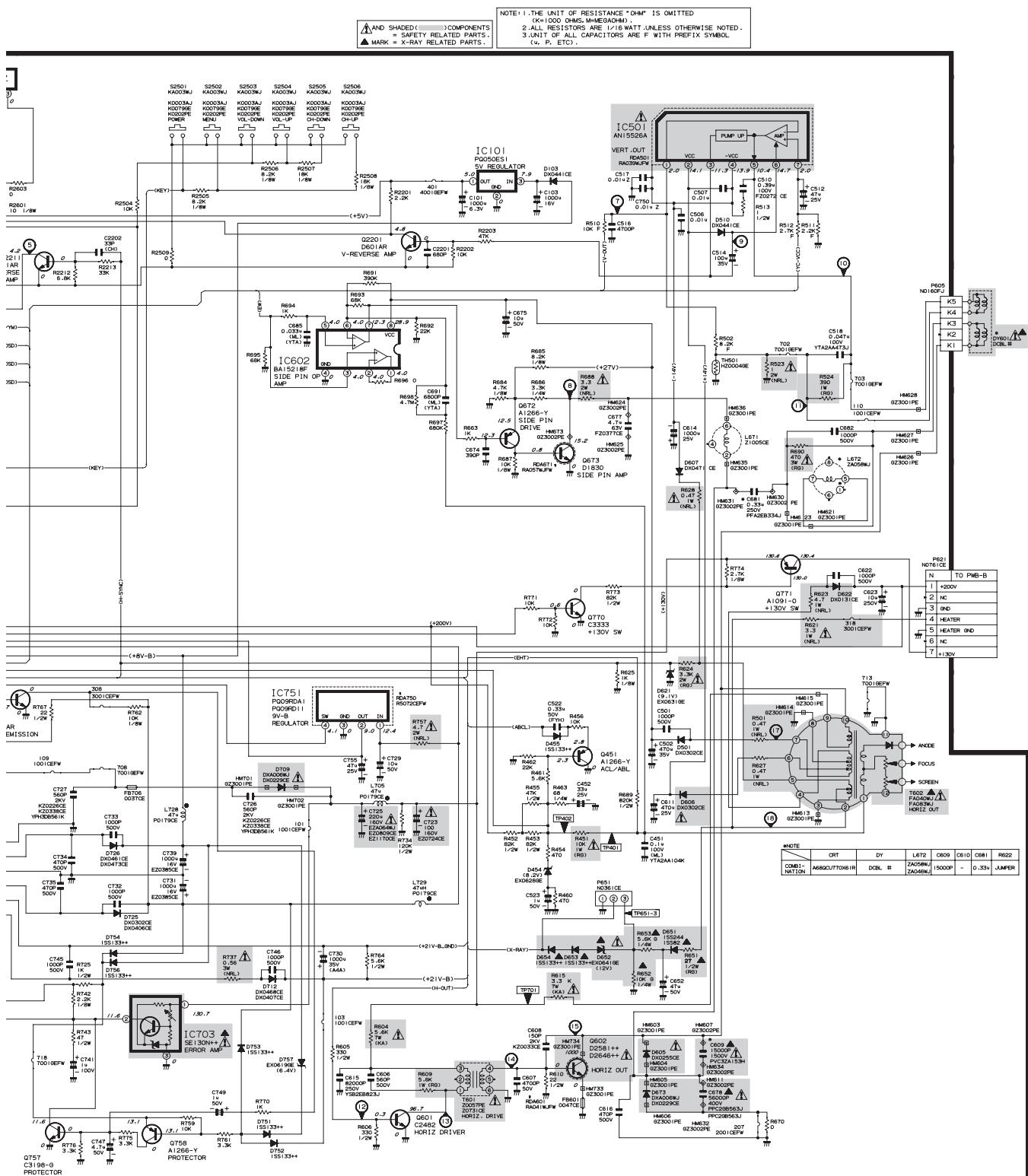
㉔ 130 Vp-p

SCHEMATIC DIAGRAM: CRT Unit

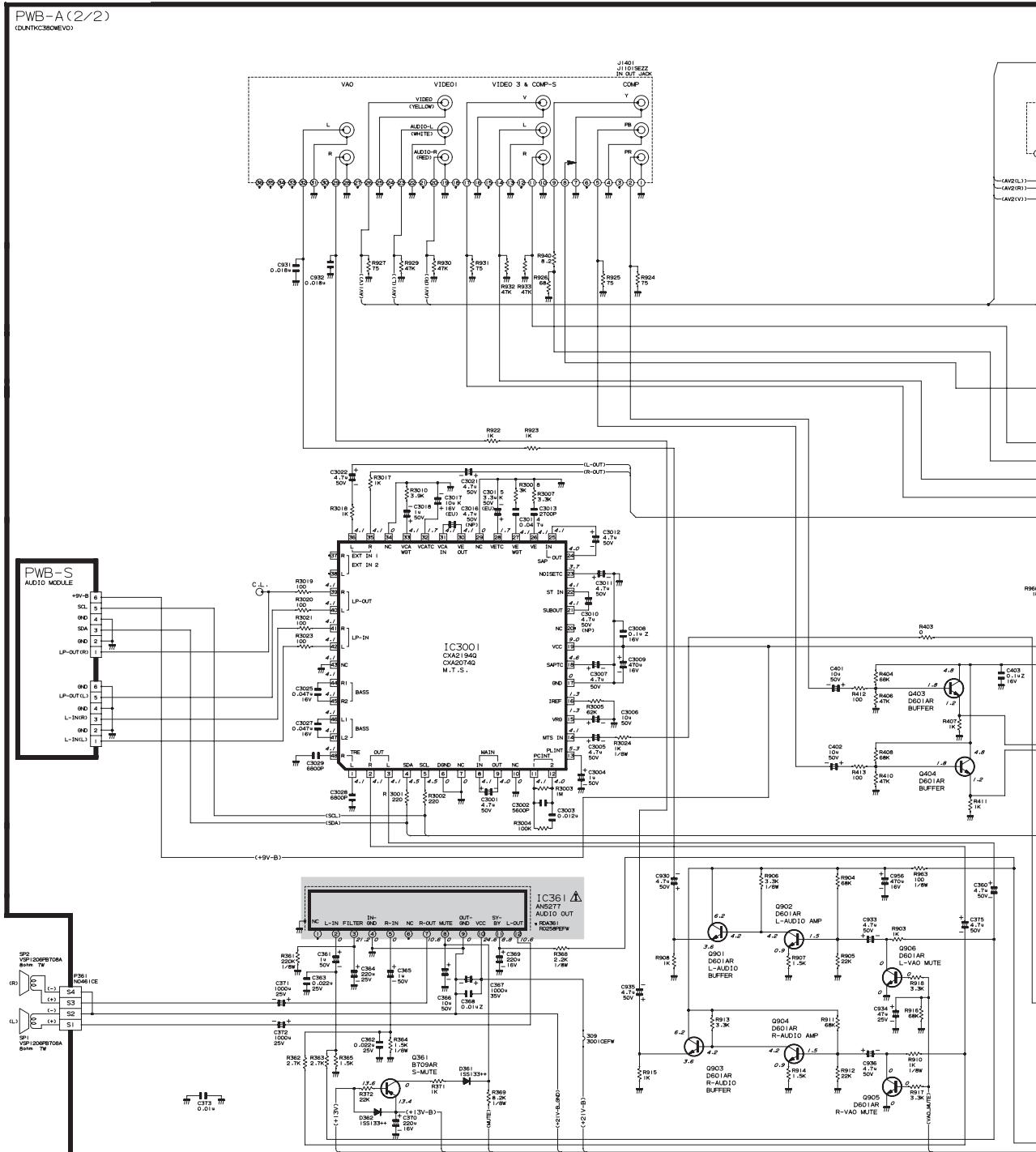


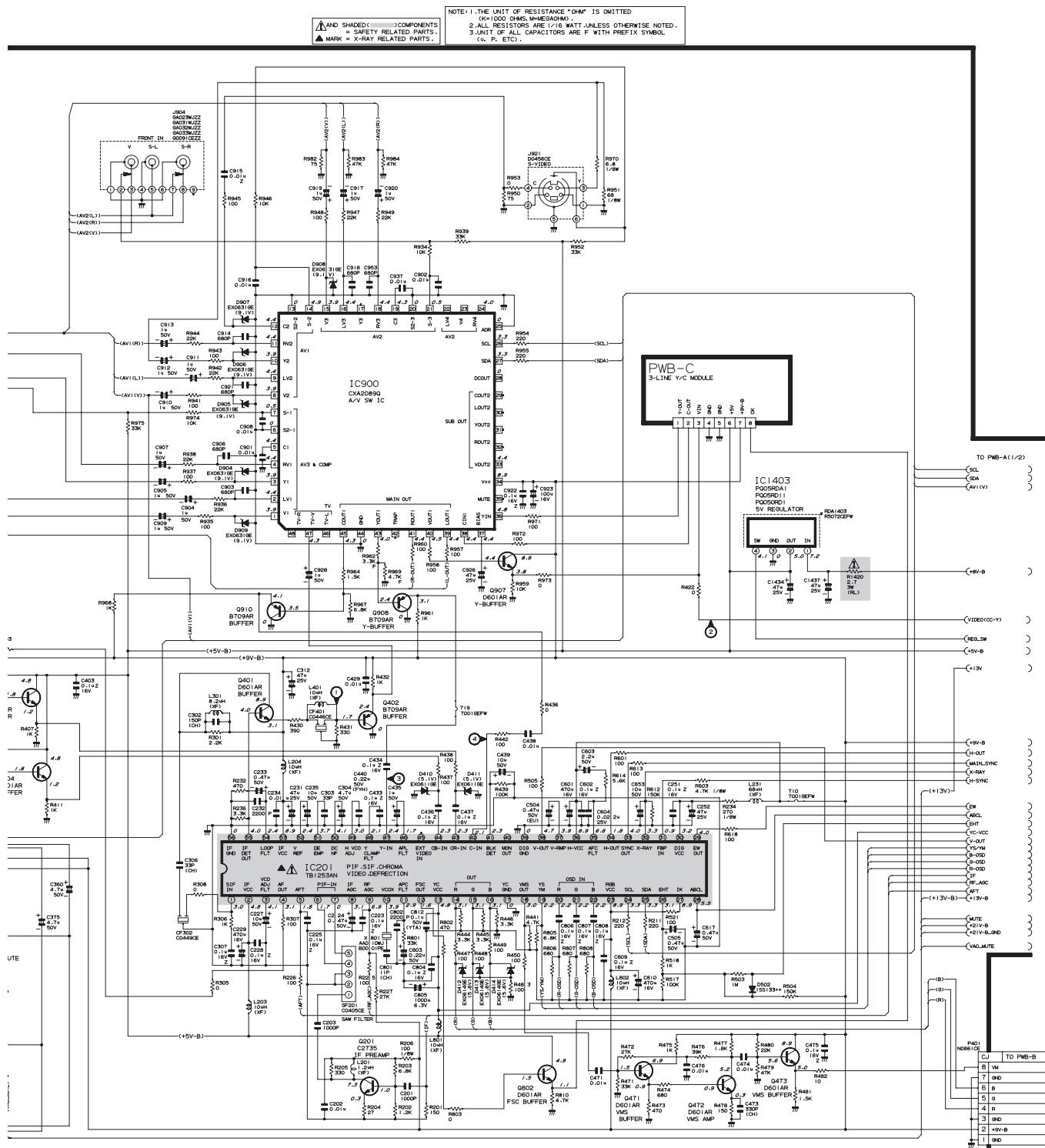
SCHEMATIC DIAGRAM: MAIN-1 Unit



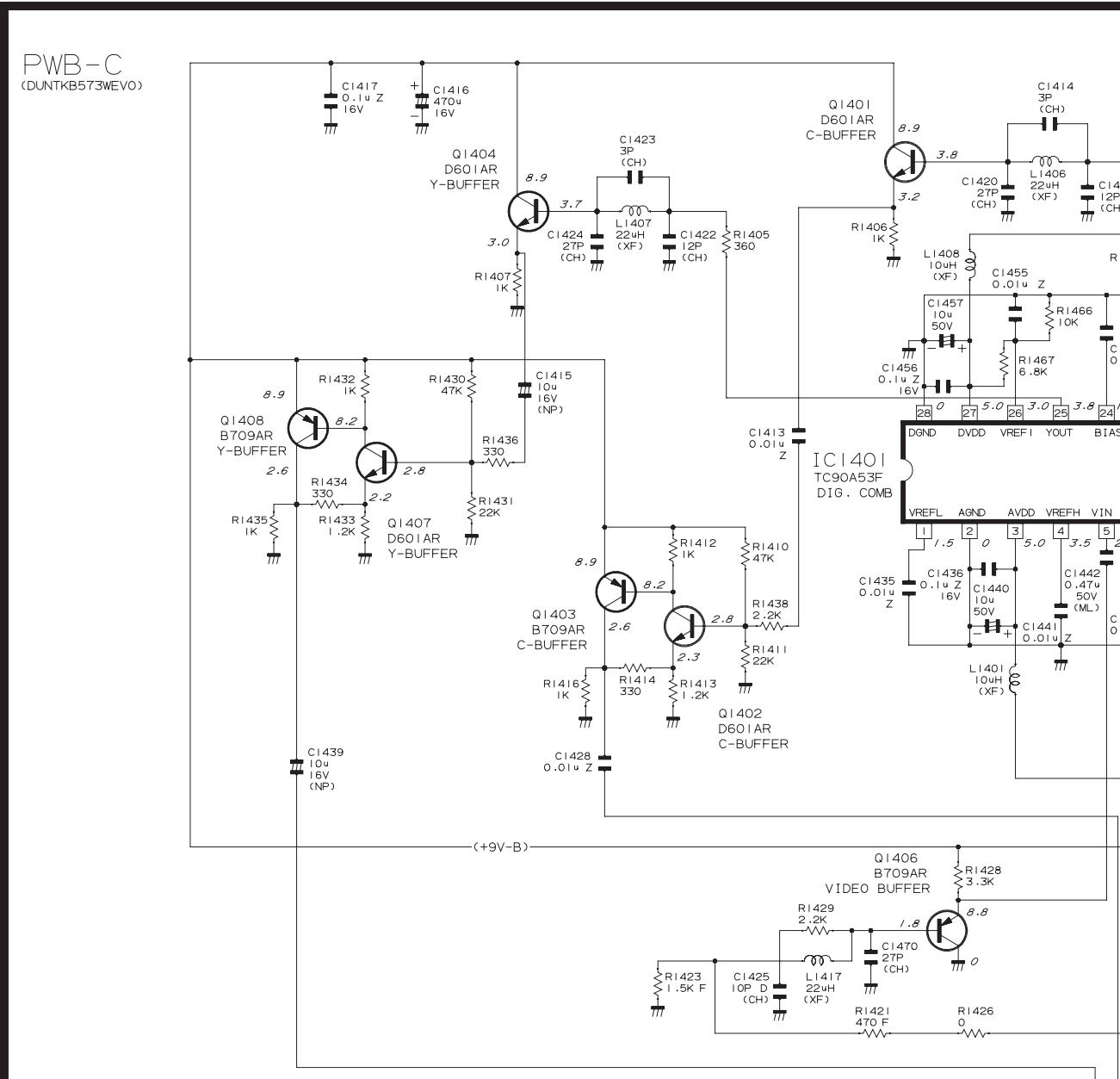


SCHEMATIC DIAGRAM: MAIN-2 Unit



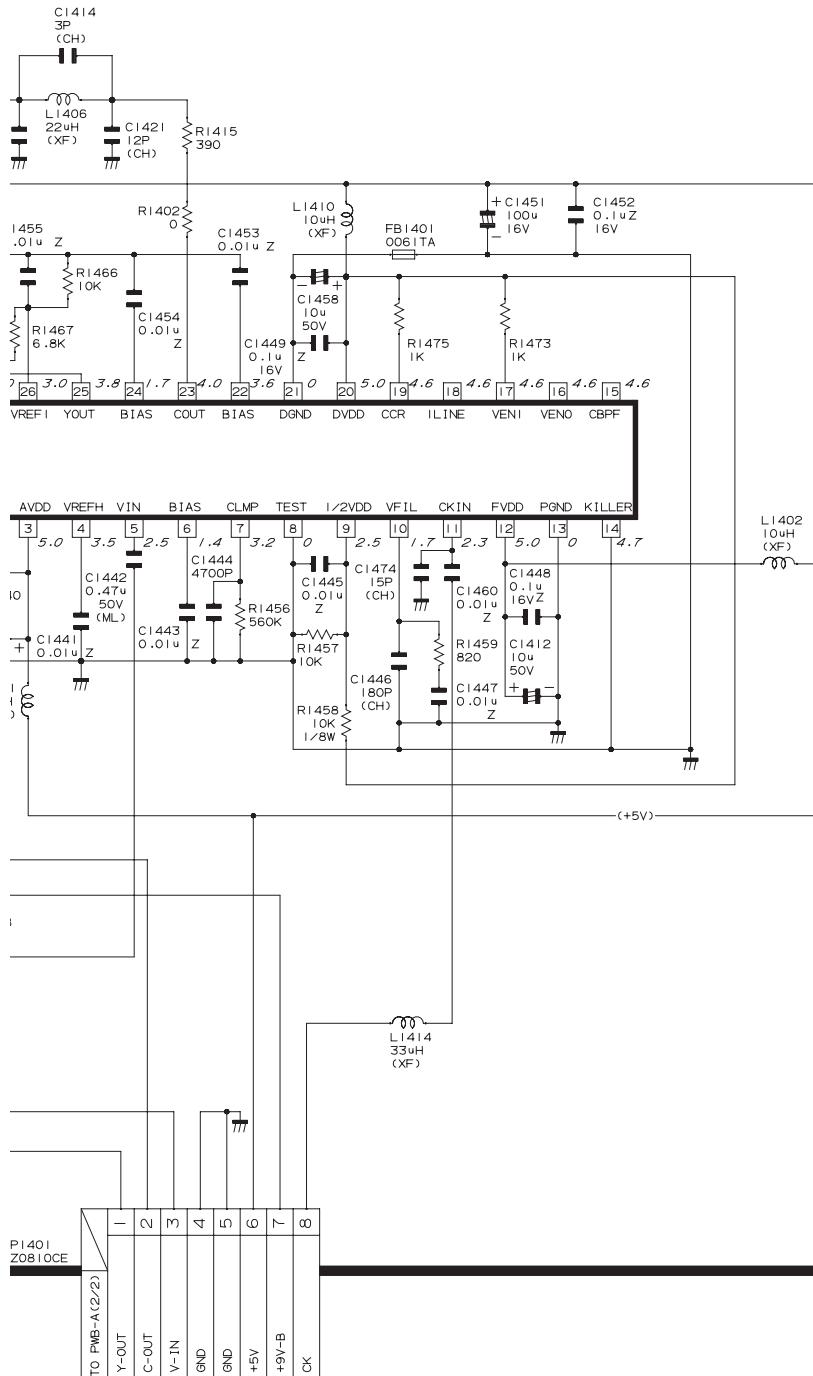


SCHEMATIC DIAGRAM: 3-LINE Y/C Unit

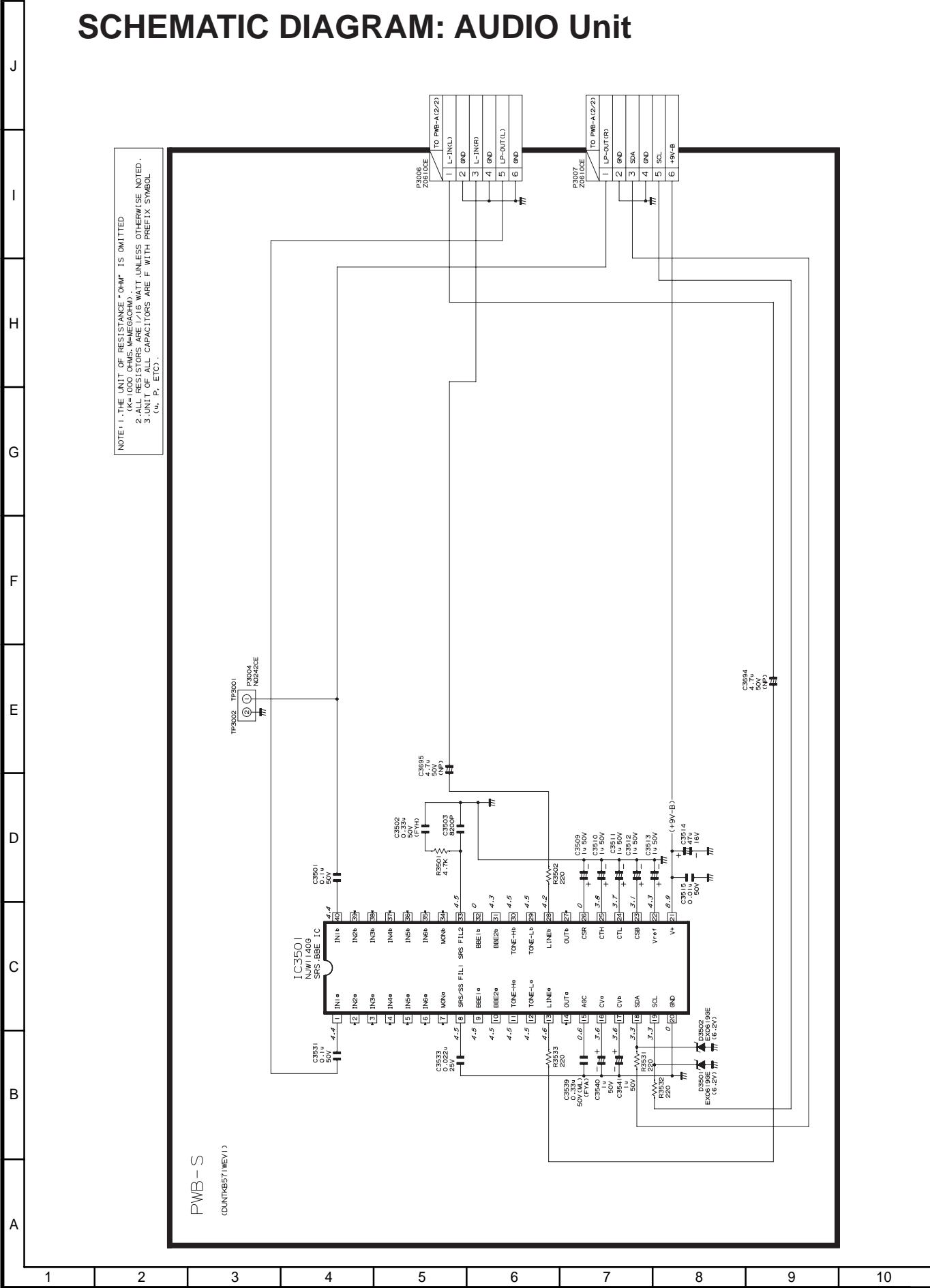


1	2	3	4	5	6	7	8	9	10
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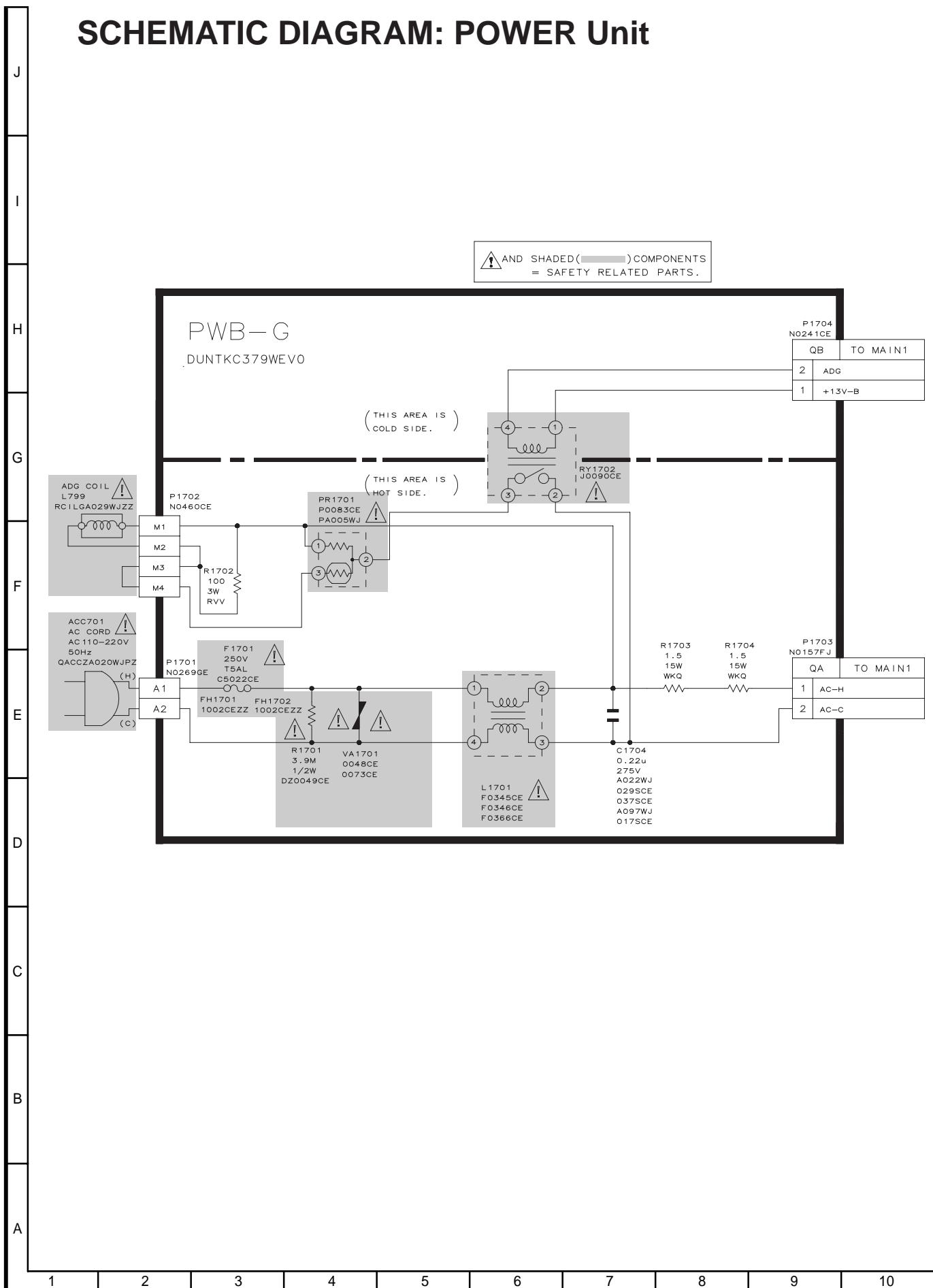
NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS. M=MEGAOHM).
2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(U, P, ETC).



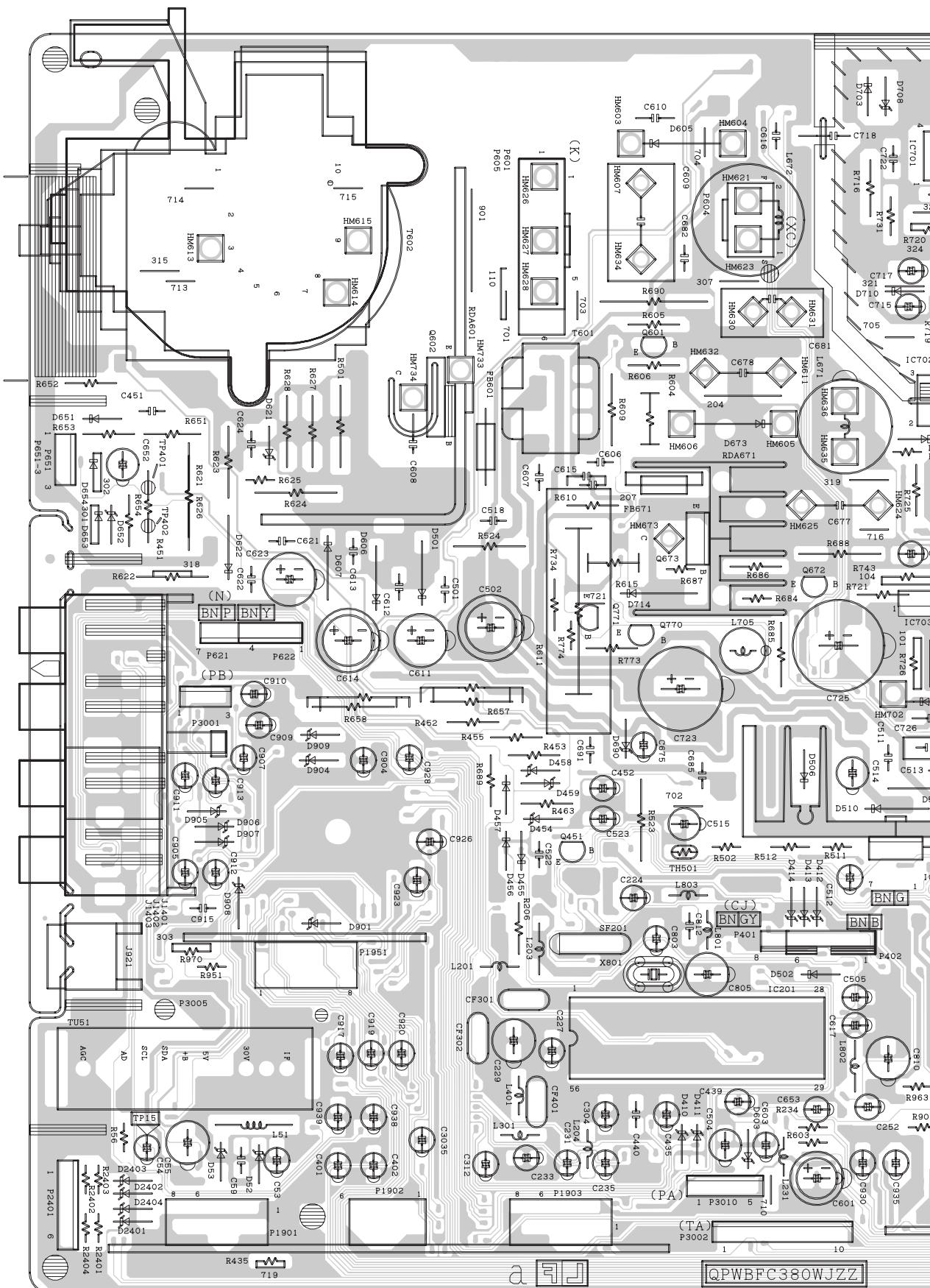
SCHEMATIC DIAGRAM: AUDIO Unit

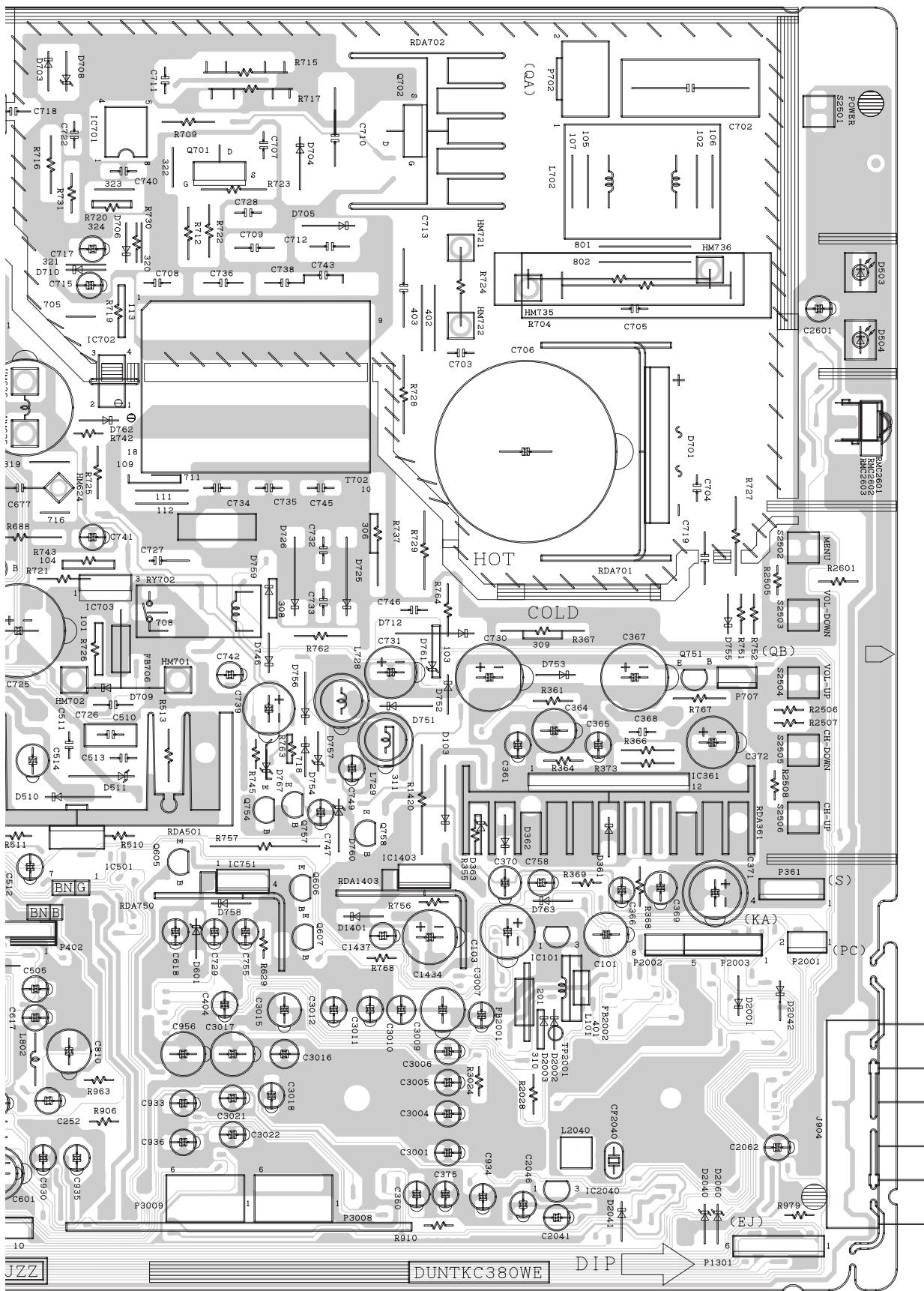


SCHEMATIC DIAGRAM: POWER Unit

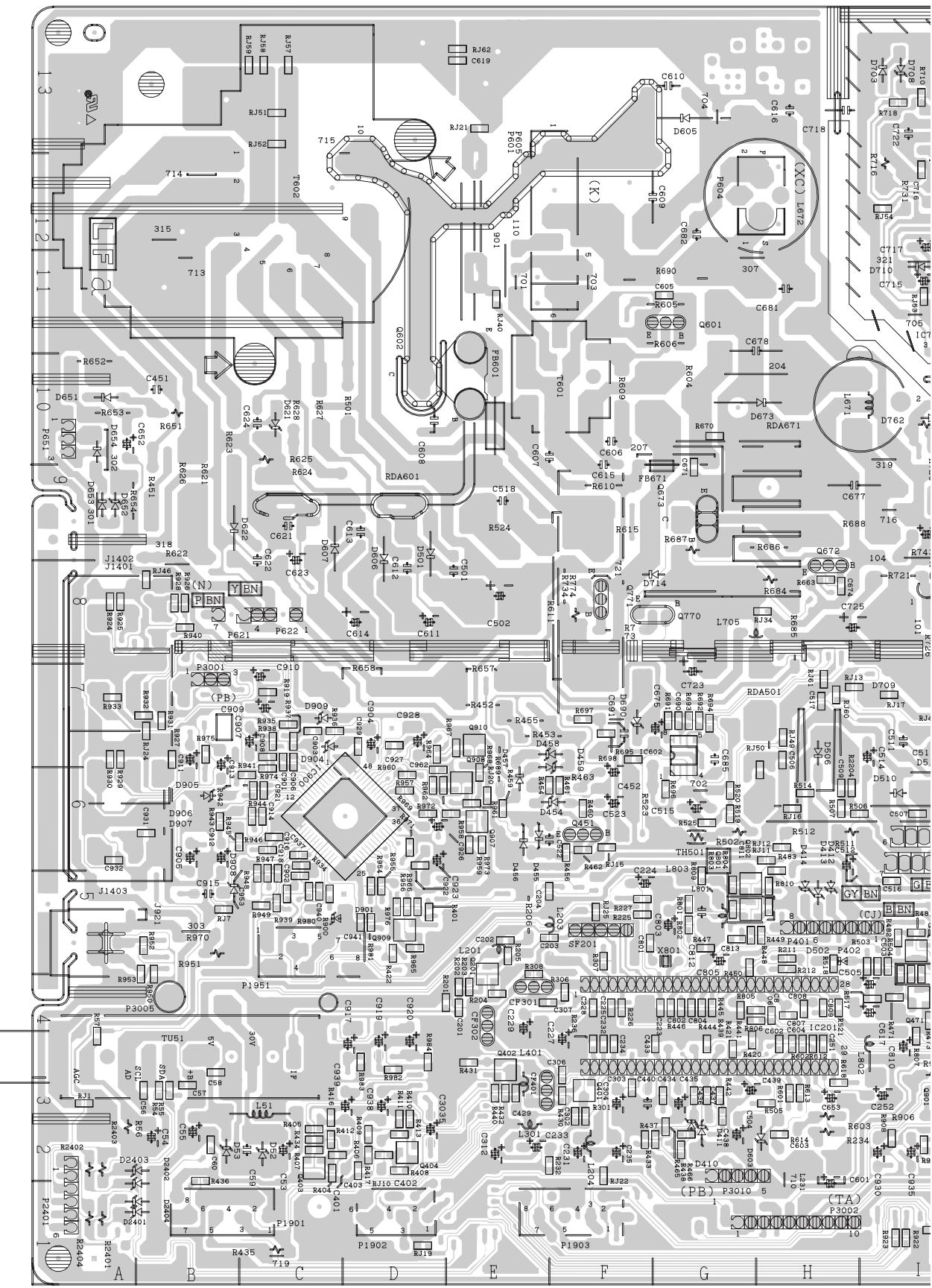


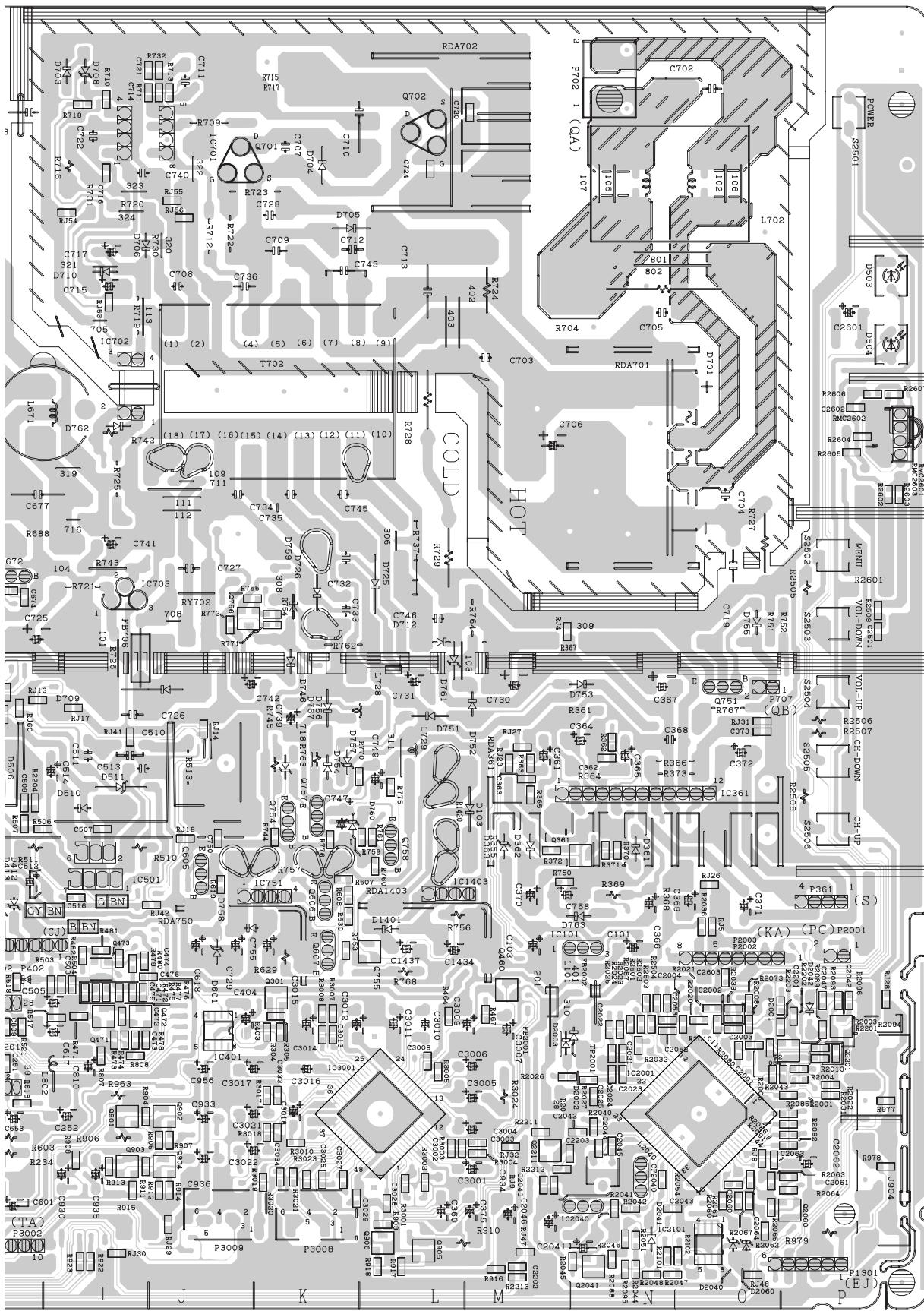
PWB-A: MAIN Unit (A side)





PWB-A: MAIN Unit (B side)





J

G

F

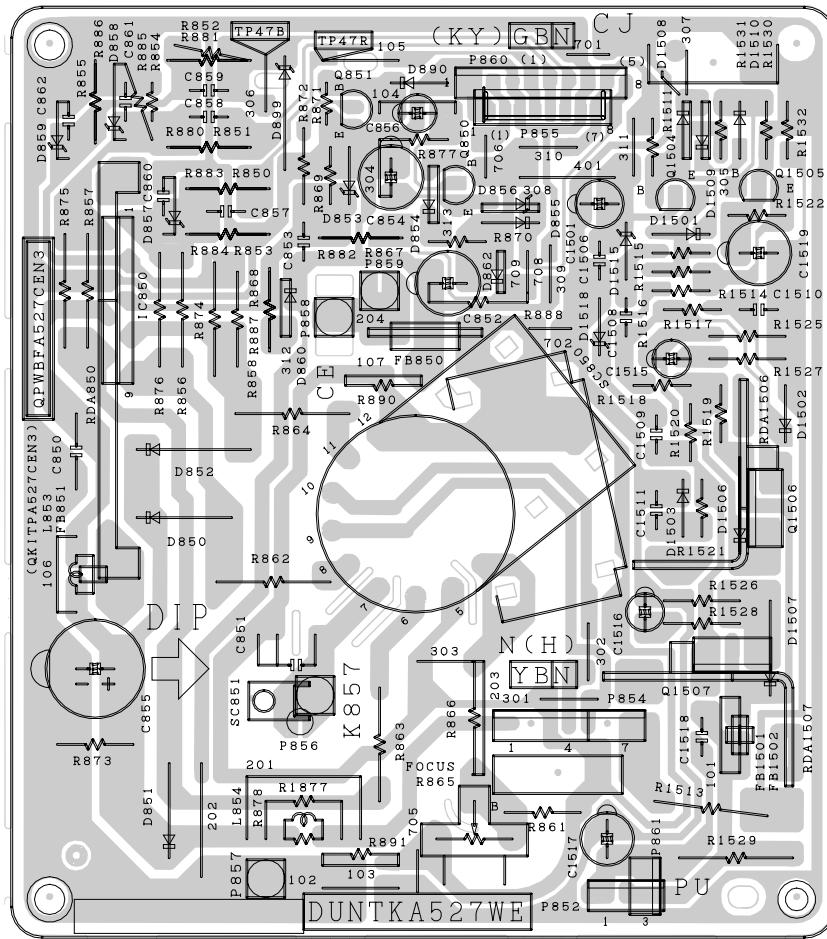
E

D

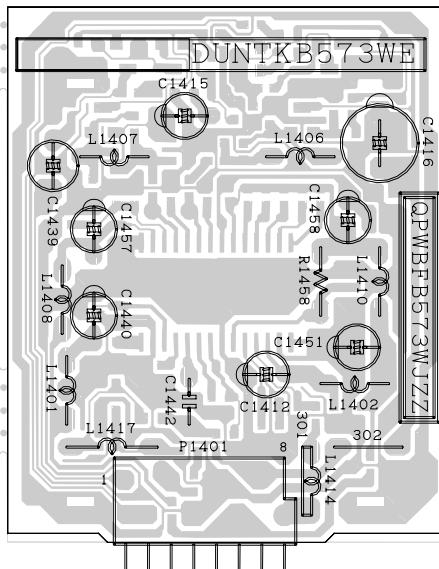
c

R

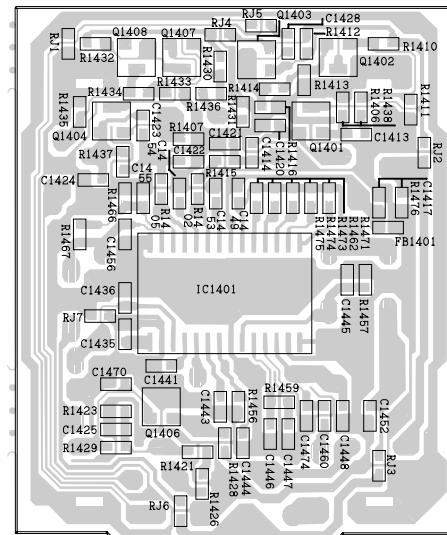
A



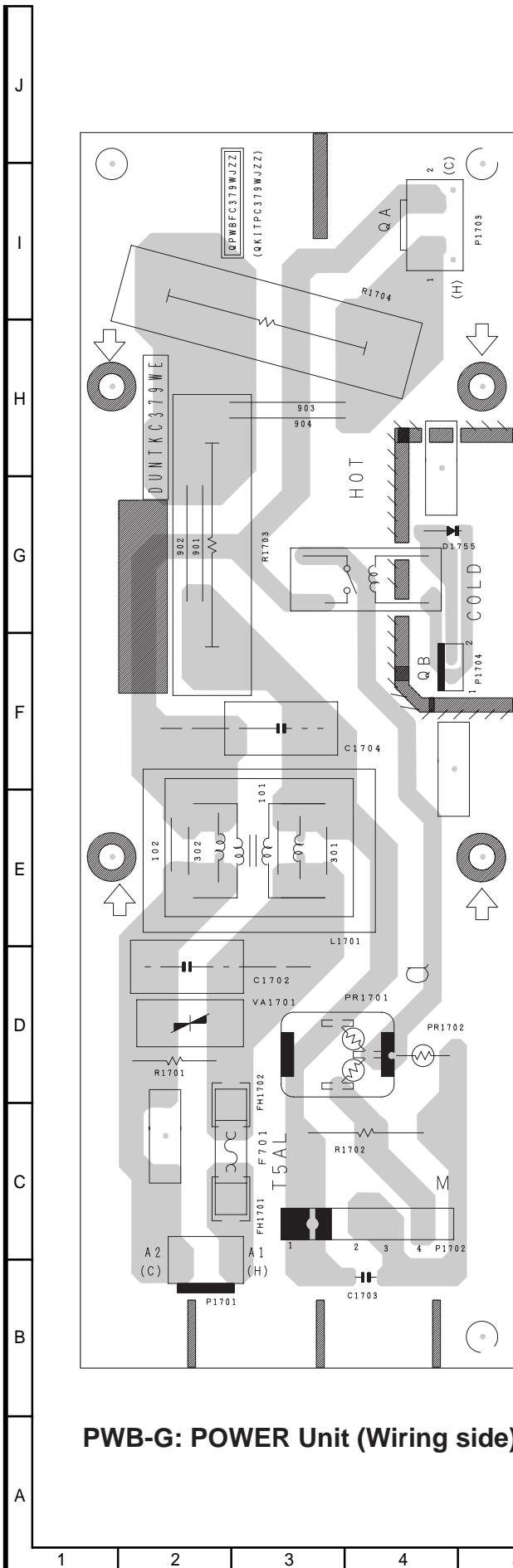
PWB-B: CRT Unit (Wiring side)



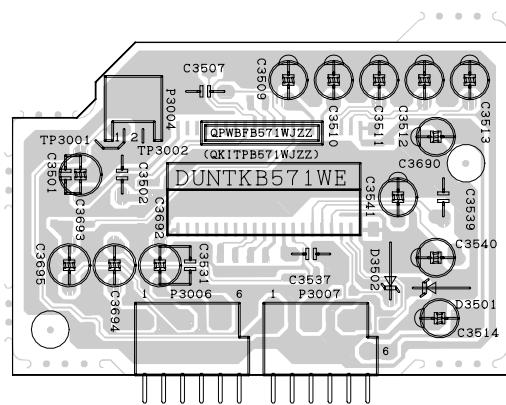
PWB-C: 3-LINE Y/C Unit (Wiring side)



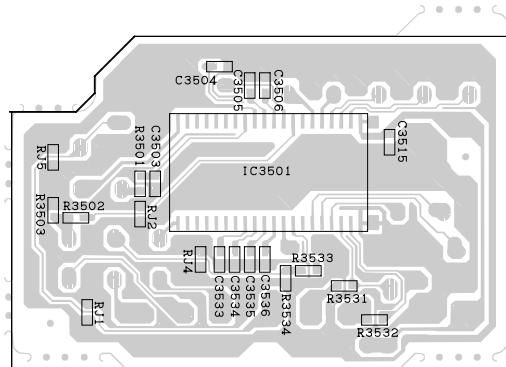
PWB-C: 3-LINE Y/C Unit (Chip Parts side)



PWB-G: POWER Unit (Wiring side)



PWB-S: AUDIO Unit (Wiring side)



PWB-S: AUDIO Unit (Chip Parts side)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual ; electrical components having such features are identified by \triangle and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

in USA: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK: X-RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

△ V101	VB68QCU770X5E	X	Picture Tube	CD
△ L799	RCiLGA029WJZZ	X	Degaussing Coil	AP
△	QEARGA010WJZZ	X	Ground-Part	AD

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A	DUNTKC380WEV0	- MAIN Unit	—
PWB-B	DUNTKA527WEW7	- CRT Unit	—
PWB-C	DUNTKB573WEV0	- 3-LINE Y/C Unit	—
PWB-G	DUNTKC379WEV0	- POWER Unit	—
PWB-S	DUNTKB571WEV1	- AUDIO Unit	—

Ref. No.	Part No.	★	Description	Code
DUNTKC380WEV0 PWB-A MAIN UNIT				

TUNER

NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

△TU51	VTUVT1T5UF202	X	VHF Tuner	AP
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INTEGRATED CIRCUITS

IC101	VHiPQ050ES1-1+	X	PQ050ES1MXP	AP
△ IC201	VHiTB1253AN-1	X	TB1253AN	AP
△ IC361	VHIAN5277//1	X	AN5277	AG
△ IC501	VHiAN15526A-1	X	AN15526A	AE
IC602	VHiBA15218F2EY	X	BA15218F-E2	AB
△ IC701	VHTEA1507/-1	X	TEA1507P/N1	AE
△ IC702	RH-FX0008GEZZ	X	PC123FY8	AB
△ IC703	VHISE130N++-F	X	SE130N	AD
IC751	VHiPQ09RDA1-1	X	PQ090RDA1SZ	AD
IC900	VHiCXA2089Q-2Y	X	CXA2089Q-6T	AK
IC1403	VHiPQ05RDA1-1	X	PQ050RDA1SZ	AD
IC2001	RH-iXA418WJZZQ	X	TMP88CS38BFG	AN
IC2040	VHiKIA7045A-1+	X	KIA7045AP	AB
IC2101	VHiBR24L16F-1Y	X	BR24L16F-WE2	AC
IC3001	VHiCXA2194Q-1Y	X	CXA2194Q/-T6	AP

TRANSISTORS

Q201	VS2SC2735//1EY	X	2SC2735	AB
Q361	VS2SB709AR/-1Y	X	2SB709AR	AB
Q401	VS2SD601AR/-1Y	X	2SD601AR	AB
Q402	VS2SB709AR/-1Y	X	2SB709AR	AB
Q403	VS2SD601AR/-1Y	X	2SD601AR	AB
Q404	VS2SD601AR/-1Y	X	2SD601AR	AB
Q451	VS2SA1266-Y-1+	X	2SA1266-Y	AB
Q460	VSRT1N441C/-1Y	X	RT1N441C	AB
Q471	VS2SD601AR/-1Y	X	2SD601AR	AB
Q472	VS2SD601AR/-1Y	X	2SD601AR	AB
Q473	VS2SD601AR/-1Y	X	2SD601AR	AB
Q601	VS2SC2482//1-	X	2SC2482	AB
△ Q602	VS2SD2581++2E	X	2SD2581	AG
Q672	VS2SA1266-Y-1+	X	2SA1266-Y	AB
Q673	VS2SD1830//1E	X	2SD1830	AD
△ Q701	VSSPA04N603-1	X	SPA04N603	AF
△ Q702	VSSPA08N803-1	X	SPA08N803	AL
Q751	VS2SC3198-G-1+	X	2SC3198-G	AB
Q755	VS2SD601AR/-1Y	X	2SD601AR	AB
Q756	VS2SD601AR/-1Y	X	2SD601AR	AB
Q757	VS2SC3198-G-1+	X	2SC3198-G	AB
Q758	VS2SA1266-Y-1+	X	2SA1266-Y	AB
Q770	VS2SC3333//1+	X	2SC3333	AB
Q771	VS2SA1091-O1A+	X	2SA1091-O	AC
Q802	VS2SD601AR/-1Y	X	2SD601AR	AB
Q901	VS2SD601AR/-1Y	X	2SD601AR	AB
Q902	VS2SD601AR/-1Y	X	2SD601AR	AB
Q903	VS2SD601AR/-1Y	X	2SD601AR	AB
Q904	VS2SD601AR/-1Y	X	2SD601AR	AB
Q905	VS2SD601AR/-1Y	X	2SD601AR	AB
Q906	VS2SD601AR/-1Y	X	2SD601AR	AB
Q907	VS2SD601AR/-1Y	X	2SD601AR	AB
Q908	VS2SB709AR/-1Y	X	2SB709AR	AB
Q910	VS2SB709AR/-1Y	X	2SB709AR	AB
Q2060	VS2SD601AR/-1Y	X	2SD601AR	AB
Q2201	VS2SD601AR/-1Y	X	2SD601AR	AB
Q2211	VS2SD601AR/-1Y	X	2SD601AR	AB

DIODES

D52	RH-EX0676GEZZY	X	Zener Diode, 32V	AB
D103	RH-DX0441CEZZY	X		AB
D361	VHD1SS133++-1Y	X	1SS133	AA
D362	VHD1SS133++-1Y	X	1SS133	AA
D410	RH-EX0611GEZZY	X	Zener Diode, 5.1V	AB
D411	RH-EX0611GEZZY	X	Zener Diode, 5.1V	AB
D412	RH-EX0614GEZZY	X	Zener Diode, 5.6V	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
CAPACITORS									
D413	RH-EX0614GEZZY	X	Zener Diode, 5.6V	AB	C53	VCEA0A1HW105M+X	1	50V Electrolytic	AB
D414	RH-EX0614GEZZY	X	Zener Diode, 5.6V	AB	C54	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
D454	RH-EX0628GEZZY	X	Zener Diode, 8.2V	AB	C55	VCEA0A0JW108M-X	1000	6.3V Electrolytic	AB
D455	VHD1SS133++-1Y	X	1SS133	AA	C58	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
D501	RH-DX0302CEZZY	X		AB	C59	VCKYPA1HF103Z+	X 0.01	50V Ceramic	AA
D502	VHD1SS133++-1Y	X	1SS133	AA	C101	VCEA0A0JW108M+X	1000	6.3V Electrolytic	AB
D510	RH-DX0441CEZZY	X		AB	C103	VCEA0A1CW108M+X	1000	16V Electrolytic	AB
△ D605	RH-DX0255CEZZ	X		AD	C201	VCKYCY1HB102KY	X 1000p	50V Ceramic	AA
△ D606	RH-DX0302CEZZY	X		AB	C202	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
D607	RH-DX0471CEZZY	X		AB	C203	VCKYCY1HB102KY	X 1000p	50V Ceramic	AA
D621	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C223	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
△ D622	RH-DX0131CEZZY	X		AB	C224	VCEA0A1HW474M+X	0.47	50V Electrolytic	AB
▲△ D651	VHD1SS244/-1Y	X	1SS244	AB	C225	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
▲△ D652	RH-EX0641GEZZY	X	Zener Diode, 12V	AB	C227	VCEA0A1HW106M+X	10	50V Electrolytic	AB
▲△ D653	VHD1SS133++-1Y	X	1SS133	AA	C228	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
▲△ D654	VHD1SS133++-1Y	X	1SS133	AA	C229	VCEA0A1CW477M+X	470	16V Electrolytic	AB
△ D673	RH-DXA006WJZZ	X		AB	C231	VCEA0A1EW476M+X	47	25V Electrolytic	AB
△ D701	RH-DX0477CEZZ	X		AD	C232	VCKYCY1HB222KY	X 2200p	50V Ceramic	AA
D703	VHD1SS133++-1Y	X	1SS133	AA	C233	VCEA0A1HW474M+X	0.47	50V Electrolytic	AB
D704	RH-DX0321CEZZY	X		AB	C234	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
D705	RH-DX0321CEZZY	X		AB	C235	VCEA0A1HW106M+X	10	50V Electrolytic	AB
D706	VHD1SS244/-1Y	X	1SS244	AB	C251	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
D708	RH-EX0650GEZZY	X	Zener Diode, 16V	AB	C252	VCEA0A1EW476M+X	47	25V Electrolytic	AB
△ D709	RH-DXA006WJZZ	X		AB	C302	VCCCCY1HH151JY	X 150p	50V Ceramic	AA
D710	VHD1SS133++-1Y	X	1SS133	AA	C303	VCCCCY1HH330JY	X 33p	50V Ceramic	AA
D712	RH-DX0468CEZZ	X		AB	C304	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
D725	RH-DX0302CEZZY	X		AB	C306	VCCCCY1HH330JY	X 33p	50V Ceramic	AA
D726	RH-DX0461CEZZ	X		AB	C307	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
D751	VHD1SS133++-1Y	X	1SS133	AA	C312	VCEA0A1EW476M+X	47	25V Electrolytic	AB
D752	VHD1SS133++-1Y	X	1SS133	AA	C360	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
D753	VHD1SS133++-1Y	X	1SS133	AA	C361	VCEA0A1HW105M+X	1	50V Electrolytic	AB
D754	VHD1SS133++-1Y	X	1SS133	AA	C362	VCKYCY1EB223KY	X 0.022	25V Ceramic	AA
D755	VHD1SS133++-1Y	X	1SS133	AA	C363	VCKYCY1EB223KY	X 0.022	25V Ceramic	AA
D756	VHD1SS133++-1Y	X	1SS133	AA	C364	VCEA0A1EW227M+X	220	25V Electrolytic	AB
D757	RH-EX0619GEZZY	X	Zener Diode, 6.4V	AB	C365	VCEA0A1HW105M+X	1	50V Electrolytic	AB
D904	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C366	VCEA0A1HW106M+X	10	50V Electrolytic	AB
D905	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C367	VCEA0A1VW108M+X	1000	35V Electrolytic	AB
D906	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C368	VCKYPA1HF103Z+	X 0.01	50V Ceramic	AA
D907	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C369	VCEA0A1CW227M+X	220	16V Electrolytic	AB
D908	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C370	VCEA0A1CW227M+X	220	16V Electrolytic	AB
D909	RH-EX0631GEZZY	X	Zener Diode, 9.1V	AB	C371	VCEA0A1EW108M+X	1000	25V Electrolytic	AB
D2001	VHD1SS133++-1Y	X	1SS133	AA	C372	VCEA0A1EW108M+X	1000	25V Electrolytic	AB
D2040	RH-EX0619GEZZY	X	Zener Diode, 6.2V	AB	C373	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
D2060	RH-EX0619GEZZY	X	Zener Diode, 6.2V	AB	C375	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
PACKAGED CIRCUITS									
TH501	RH-HZ0004GEZZ+	X	Thermistor	AB	C401	VCEA0A1HW106M+X	10	50V Electrolytic	AB
X801	RCRSAA010WJZZ	X	Crystal	AC	C402	VCEA0A1HW106M+X	10	50V Electrolytic	AB
FILTERS AND COILS									
CF302	RFILC0449CEZZ+	X	Filter	AB	C403	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
CF401	RFILC0446CEZZ+	X	Filter	AB	C429	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
L51	VP-CF100K000Y	X	Peaking	10μH	C433	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
L201	VP-XF1R2K000Y	X	Peaking	1.2μH	C434	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
L203	VP-XF100K000Y	X	Peaking	10μH	C435	VCEA0A1HW105M+X	1	50V Electrolytic	AB
L204	VP-XF100K000Y	X	Peaking	10μH	C436	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
L231	VP-XF680K000Y	X	Peaking	68μH	C437	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
L301	VP-XF8R2K000Y	X	Peaking	8.2μH	C438	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
L401	VP-XF100K000Y	X	Peaking	10μH	C439	VCEA0A1HW106M+X	10	50V Electrolytic	AB
L671	RCILZ1005CEZZ	X	Coil	AD	C440	VCFYFA1HA224J+	X 0.22	50V Mylar	AB
L672	RCILZA058WJZZ	X	Coil	AE	C451	VCQYTA2AA104K+	X 0.1	100V Mylar	AB
△ L702	RCILF0345CEZZ	X	Coil	AC	C452	VCEA0A1EW336M+X	33	25V Electrolytic	AB
L705	RCILP0179CEZZ+	X	Coil	47μH	C471	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
L728	RCILP0179CEZZ+	X	Coil	47μH	C473	VCCCCY1HH331JY	X 330p	50V Ceramic	AB
L729	RCILP0179CEZZ+	X	Coil	47μH	C474	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
L801	VP-XF100K000Y	X	Peaking	10μH	C475	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
L802	VP-XF100K000Y	X	Peaking	10μH	C476	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
L2040	RCILBA007WJZZ	X	Oscillation Coil	AB	C501	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB
SF201	RFILC0405CEZZ	X	Filter	AD	C502	VCEA0A1VW477M+X	470	35V Electrolytic	AB
TRANSFORMERS									
△ T601	RTRNZ0057PEZZ	X	Transformer	AD	C504	VCEACA1HC474M+X	0.47	50V Electrolytic	AB
▲△ T602	RTRNFA040WJZZ	X	H-Volt Transformer	AT	C505	VCEA0A1HW474M+X	0.47	50V Electrolytic	AB
△ T702	RTRNWA118WJZZ	X	Transformer	AH	C506	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C507	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA	C510	RC-FZ0272CEZZ+	X 0.39	100V Mylar	AB
C512	VCEA0A1EW476M+X	47	25V Electrolytic	AB	C514	VCEA0A1VW107M+X	100	35V Electrolytic	AB
C516	VCKYCY1HB472KY	X 4700p	50V Ceramic	AA	C517	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C518	VCQYTA2AA473J+	X 0.047	100V Mylar	AB	C809	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C522	VCFYFA1HA334J+	X 0.33	50V Mylar	AB	C810	VCEA0A1CW477M+X	470	16V Electrolytic	AB
C523	VCEA0A1HW105M+X	1	50V Electrolytic	AB	C812	VCQYTA1HM104J+	X 0.1	50V Mylar	AB
C601	VCEA0A1CW477M+X	470	16V Electrolytic	AB	C901	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C602	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA	C902	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C603	VCEA0A1HW225M+X	2.2	50V Electrolytic	AB	C903	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C604	VCKYCY1EB223KY	X 0.022	25V Ceramic	AA	C904	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C606	VCKYPA2HB561K+	X 560p	500V Ceramic	AB	C905	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C607	VCKYPA1HB472K+	X 4700p	50V Ceramic	AB	C906	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C608	RC-KZ0033CEZZ	X 150p	2kV Ceramic	AB	C907	VCEA0A1HW105M+X	1	50V Electrolytic	AB
▲△ C609	VCFPVC3ZA153H	X 0.015	1500V Metallized Polypro Film	AB	C908	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C611	VCEA0A1EW477M+X	470	25V Electrolytic	AB	C909	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C614	VCEA0A1EW108M+X	1000	25V Electrolytic	AB	C910	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C615	VCFYSB2EB823J	X 0.082	250V Mylar	AB	C911	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C616	VCKYPA2HB471K+	X 470p	500V Ceramic	AB	C912	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C617	VCEA0A1HW474M+X	0.47	50V Electrolytic	AB	C913	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C622	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C914	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C623	VCEA4A2EN106M+X	10	250V Electrolytic	AB	C915	VCKYPA1HF103Z+	X 0.01	50V Ceramic	AA
C652	VCEA0A1HW476M+X	47	50V Electrolytic	AB	C916	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C653	VCEA0A1HW106M+X	10	50V Electrolytic	AB	C917	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C674	VCKYCY1HB391KY	X 390p	50V Ceramic	AA	C918	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C675	VCEA0A1HW106M+X	10	50V Electrolytic	AB	C919	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C677	RC-FZ0377CEZZ	X 4.7	63V Mylar	AC	C920	VCEA0A1HW105M+X	1	50V Electrolytic	AB
▲△ C678	VCQPCU2GA563J	X 0.056	400V Metallized Polypro Film	AB	C921	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C681	VCFPFA2EB334J	X 0.33	250V Metallized Polypro Film	AB	C922	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C682	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C923	VCEA0A1CW107M+X	100	16V Electrolytic	AB
C685	VCQYTA1HM333J+	X 0.033	50V Mylar	AB	C926	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C691	VCQYTA1HM682J+	X 6800p	50V Mylar	AB	C928	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C704	RC-KZ0029CEZZ+	X 0.1	250V Ceramic	AB	C930	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C705	RC-KZ0029CEZZ+	X 0.1	250V Ceramic	AB	C931	VCKYCY1HB183KY	X 0.018	50V Ceramic	AA
C706	RC-EZA243WJZZ	X 470	400V	AM	C932	VCKYCY1HB183KY	X 0.018	50V Ceramic	AA
C707	RC-KZ0031CEZZ+	X 100p	2kV	AB	C933	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C708	VCKYPA2HB471K+	X 470p	500V Ceramic	AB	C934	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C709	RC-KZ0226CEZZ+	X 560P	2kV Ceramic	AB	C935	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C710	VCFPVC3CA562H	X 5600p	1.2kV Metallized Polypro Film	AB	C936	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C711	VCQYTA1HM473J+	X 0.047	50V Mylar	AA	C937	VCKYCY1HB103KY	X 0.01	50V Ceramic	AA
C712	RC-KZ0226CEZZ+	X 560p	2kV	AB	C953	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C713	VCQPPC2JB333K	X 0.033	630V	AB	C956	VCEA0A1CW477M+X	470	16V Electrolytic	AB
C715	VCEA0A1HW336M+X	33	50V Electrolytic	AB	C1434	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C716	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA	C1437	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C717	VCEA0A1HW226M+X	22	50V Electrolytic	AB	C2001	VCCCCY1HH101JY	X 100p	50V Ceramic	AA
△ C718	RC-KZ018SCEZZ	X 1000p	AC250V	AB	C2002	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
△ C719	RC-KZ018SCEZZ	X 1000p	AC250V	AB	C2025	VCCCCY1HH101JY	X 100p	50V Ceramic	AA
C722	VCQYTA1HM103J+	X 0.01	50V Mylar	AB	C2040	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
△ C723	RC-EZ0724CEZZ	X 100	160V Electrolytic	AC	C2041	VCEA0A1HW105M+X	1	50V Electrolytic	AB
△ C725	RC-EZA064WJZZ	X 220	160V Electrolytic	AD	C2043	VCCCCY1HH331JY	X 330p	50V Ceramic	AB
C726	RC-KZ0226CEZZ+	X 560P	2kV Ceramic	AB	C2044	VCCCCY1HH100DYX	10p	50V Ceramic	AA
C727	RC-KZ0226CEZZ+	X 560P	2kV Ceramic	AB	C2046	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C729	VCEA0A1HW106M+X	10	50V Electrolytic	AB	C2060	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C730	VCEA4A1VN108M+X	1000	35V Electrolytic	AC	C2061	VCCCCY1HH101JY	X 100p	50V Ceramic	AA
C731	RC-EZ0385CEZZ+	X 1000	16V Electrolytic	AB	C2062	VCEA0A1CW107M+X	100	16V Electrolytic	AB
C732	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C2063	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C733	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C2064	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C734	VCKYPA2HB471K+	X 470p	500V Ceramic	AB	C2201	VCKYCY1HB681KY	X 680p	50V Ceramic	AA
C735	VCKYPA2HB471K+	X 470p	500V Ceramic	AB	C2202	VCCCCY1HH330JY	X 33p	50V Ceramic	AA
C739	RC-EZ0385CEZZ+	X 1000	16V Electrolytic	AB	C2601	VCEA0A1EW476M+X	47	25V Electrolytic	AB
C740	VCKYPA1HF103Z+	X 0.01	50V Ceramic	AA	C2602	VCCCCY1HH101JY	X 100p	50V Ceramic	AA
C741	VCEA4A2AN105M+X	1	100V Electrolytic	AB	C3001	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C743	RC-KZ0035CEZZ+	X 220p	2kV	AB	C3002	VCKYCY1HB562KY	X 5600p	50V Ceramic	AA
C745	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C3003	VCKYCY1EB123KY	X 0.012	25V Ceramic	AA
C746	VCKYPA2HB102K+	X 1000p	500V Ceramic	AB	C3004	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C747	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB	C3005	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C749	VCEA0A1HW105M+X	1	50V Electrolytic	AB	C3006	VCEA0A1HW106M+X	10	50V Electrolytic	AB
C750	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA	C3007	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C755	VCEA0A1EW476M+X	47	25V Electrolytic	AB	C3008	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
C801	VCCCCY1HH110JY	X 11p	50V Ceramic	AA	C3009	VCEA0A1CW477M+X	470	16V Electrolytic	AB
C802	VCKYCY1HB222KY	X 2200p	50V Ceramic	AA	C3010	VCE9GA1HW475M+X	4.7	50V Electrolytic	(N.P.) AB
C803	VCEA0A1HW224M+X	0.22	50V Electrolytic	AB	C3011	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C804	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA	C3012	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB
C805	VCEA0A0JW108M+X	1000	6.3V Electrolytic	AB	C3013	VCKYCY1HB272KY	X 2700p	50V Ceramic	AA
C806	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA	C3014	VCKYCY1CB473KY	X 0.047	16V Ceramic	AA
C807	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA	C3015	VCEACA1HC335K+	X 3.3	50V Electrolytic	AB
C808	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA	C3016	VCE9GA1HW475M+X	4.7	50V Electrolytic	AB
					(N.P.)				
					C3017	VCEACA1CC106K+	X 10	16V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C3018	VCEA0A1HW105M+X	1	50V Electrolytic	AB	R411	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
C3021	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB	R412	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
C3022	VCEA0A1HW475M+X	4.7	50V Electrolytic	AB	R413	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
C3025	VCKYCY1CB473KY X	0.047	16V Ceramic	AA	R422	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
C3027	VCKYCY1CB473KY X	0.047	16V Ceramic	AA	R430	VRS-CY1JF391JY	X 390	1/16W Metal Oxide	AA
C3028	VCKYCY1HB682KY X	6800p	50V Ceramic	AA	R431	VRS-CY1JF331JY	X 330	1/16W Metal Oxide	AA
C3029	VCKYCY1HB682KY X	6800p	50V Ceramic	AA	R432	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
RESISTORS									
RJ1	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R436	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ8	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R437	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ9	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R438	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ10	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R439	VRS-CY1JF104JY	X 100k	1/16W Metal Oxide	AA
RJ11	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R441	VRS-CY1JF472JY	X 4.7k	1/16W Metal Oxide	AA
RJ12	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R442	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ14	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R444	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
RJ15	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R445	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
RJ16	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R446	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
RJ17	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R447	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ19	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R448	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ20	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R449	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ21	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R450	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
RJ22	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	△ R451	VRS-RG3AB103J+	X 10k	1W Metal Oxide	AB
RJ23	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R452	VRD-RM2HD823JY	X 82k	1/2W Carbon	AA
RJ24	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R453	VRD-RM2HD823JY	X 82k	1/2W Carbon	AA
RJ25	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R454	VRS-CY1JF471JY	X 470	1/16W Metal Oxide	AA
RJ30	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R455	VRD-RM2HD473JY	X 47k	1/2W Carbon	AA
RJ40	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R456	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
RJ42	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R460	VRS-CY1JF471JY	X 470	1/16W Metal Oxide	AA
RJ47	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R461	VRS-CY1JF562JY	X 5.6k	1/16W Metal Oxide	AA
RJ48	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R462	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
RJ49	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R463	VRD-RA2EE680JY	X 68	1/4W Carbon	AA
RJ50	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R464	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA
RJ55	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R467	VRS-CY1JF123JY	X 12k	1/16W Metal Oxide	AA
RJ56	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R471	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA
RJ60	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R472	VRS-CY1JF273JY	X 27k	1/16W Metal Oxide	AA
RJ61	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R473	VRS-CY1JF471JY	X 470	1/16W Metal Oxide	AA
R54	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA	R474	VRS-CY1JF681JY	X 680	1/16W Metal Oxide	AA
R55	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA	R475	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R56	VRD-RA2BE823JY	X 82k	1/8W Carbon	AA	R476	VRS-CY1JF393JY	X 39k	1/16W Metal Oxide	AA
R57	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA	R477	VRS-CY1JF182JY	X 1.8k	1/16W Metal Oxide	AA
R201	VRS-CY1JF151JY	X 150	1/16W Metal Oxide	AA	R478	VRS-CY1JF151JY	X 150	1/16W Metal Oxide	AA
R202	VRS-CY1JF122JY	X 1.2k	1/16W Metal Oxide	AA	R479	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R203	VRS-CY1JF682JY	X 6.8k	1/16W Metal Oxide	AA	R480	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R204	VRS-CY1JF270JY	X 27	1/16W Metal Oxide	AA	R481	VRS-CY1JF152JY	X 1.5k	1/16W Metal Oxide	AA
R205	VRS-CY1JF331JY	X 330	1/16W Metal Oxide	AA	R482	VRS-CY1JF100JY	X 10	1/16W Metal Oxide	AA
R206	VRD-RA2BE101JY	X 100	1/8W Carbon	AA	R483	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R211	VRS-CY1JF221JY	X 220	1/16W Metal Oxide	AA	△ R501	VRN-RL3ABR47J+	X 0.47	1W Metal Film	AB
R212	VRS-CY1JF221JY	X 220	1/16W Metal Oxide	AA	R502	VRN-RA2BK822FY	X 8.2k	1/8W Metal Film	AB
R225	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA	R503	VRS-CY1JF105JY	X 1M	1/16W Metal Oxide	AA
R226	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA	R504	VRS-CY1JF154JY	X 150k	1/16W Metal Oxide	AA
R227	VRS-CY1JF273JY	X 27k	1/16W Metal Oxide	AA	R505	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R232	VRS-CY1JF471JY	X 470	1/16W Metal Oxide	AA	R510	VRN-RA2BK103FY	X 10k	1/8W Metal Film	AB
R234	VRD-RA2BE271JY	X 270	1/8W Carbon	AA	R511	VRN-RA2BK222FY	X 2.2k	1/8W Metal Film	AB
R236	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA	R512	VRN-RA2BK272FY	X 2.7k	1/8W Metal Film	AB
R301	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA	R513	VRD-RM2HD1R0JY	X 1	1/2W Carbon	AA
R305	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R517	VRS-CY1JF104JY	X 100k	1/16W Metal Oxide	AA
R306	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R518	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R307	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA	R521	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R308	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	△ R523	VRN-RL3DB1R0J+	X 1	2W Metal Film	AB
R361	VRD-RA2BE224JY	X 220k	1/8W Carbon	AA	△ R524	VRS-RG3AB391J+	X 390	1W Metal Oxide	AB
R362	VRS-CY1JF272JY	X 2.7k	1/16W Metal Oxide	AA	R601	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R363	VRS-CY1JF272JY	X 2.7k	1/16W Metal Oxide	AA	R603	VRD-RA2BE472JY	X 4.7k	1/8W Carbon	AA
R364	VRD-RA2BE152JY	X 1.5k	1/8W Carbon	AA	△ R604	VRS-KA3NG562J	X 5.6k	7W Metal Oxide	AB
R365	VRS-CY1JF152JY	X 1.5k	1/16W Metal Oxide	AA	R605	VRD-RM2HD331JY	X 330	1/2W Carbon	AA
R368	VRD-RA2BE222JY	X 2.2k	1/8W Carbon	AA	R606	VRD-RM2HD331JY	X 330	1/2W Carbon	AA
R369	VRD-RA2BE822JY	X 8.2k	1/8W Carbon	AA	R609	VRS-RG3AB562J+	X 5.6k	1W Metal Oxide	AB
R371	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R610	VRD-RM2HD220JY	X 22	1/2W Carbon	AA
R372	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA	R612	VRS-CY1JF154JY	X 150k	1/16W Metal Oxide	AA
R403	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R613	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R404	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA	R614	VRS-CY1JF562JY	X 5.6k	1/16W Metal Oxide	AA
R406	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA	△ R615	VRS-KA3NG3R3K	X 3.3	7W Metal Oxide	AB
R407	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R618	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R408	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA	△ R621	VRN-RL3AB3R3J+	X 3.3	1W Metal Film	AB
R410	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA	△ R623	VRN-RL3AB4R7J+	X 4.7	1W Metal Film	AB
					△ R624	VRS-RG3DB332J+	X 3.3k	2W Metal Oxide	AB
					R625	VRD-RA2BE102JY	X 1k	1/8W Carbon	AA
					△ R627	VRN-RL3ABR47J+	X 0.47	1W Metal Film	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
△ R628	VRN-RL3ABR47J+	X 0.47	1W Metal Film	AB	R910	VRD-RA2BE102JY	X 1k	1/8W Carbon	AA
▲△ R651	VRS-RG2HC270J+	X 27	1/2W Metal Oxide	AB	R911	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA
▲△ R652	VRD-RA2EE103GY	X 10k	1/4W Carbon	AA	R912	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
▲△ R653	VRD-RA2EE562GY	X 5.6k	1/4W Carbon	AA	R913	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
△ R658	VRS-RG3LB333J+	X 33k	3W Metal Oxide	AB	R914	VRS-CY1JF152JY	X 1.5k	1/16W Metal Oxide	AA
R663	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R915	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R670	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R916	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA
R684	VRD-RA2BE472JY	X 4.7k	1/8W Carbon	AA	R917	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
R685	VRD-RA2BE822JY	X 8.2k	1/8W Carbon	AA	R918	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
R686	VRD-RA2EE332JY	X 3.3k	1/4W Carbon	AA	R922	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R687	VRD-RA2BE103JY	X 10k	1/8W Carbon	AA	R923	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
△ R688	VRN-RL3DB3R3J+	X 3.3	2W Metal Film	AB	R924	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
R689	VRD-RM2HD824JY	X 820k	1/2W Carbon	AA	R925	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
△ R690	VRS-RG3LB471J+	X 470	3W Metal Oxide	AB	R926	VRS-CY1JF680JY	X 68	1/16W Metal Oxide	AA
R691	VRS-CY1JF394JY	X 390k	1/16W Metal Oxide	AA	R927	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
R692	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA	R929	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R693	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA	R930	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R694	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R931	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
R695	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA	R932	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R696	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R933	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R697	VRS-CY1JF684JY	X 680k	1/16W Metal Oxide	AA	R934	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
R698	VRS-CY1JF475JY	X 4.7M	1/16W Metal Oxide	AA	R935	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R709	VRD-RM2HD270JY	X 27	1/2W Carbon	AA	R936	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R710	VRS-CY1JF334JY	X 330k	1/16W Metal Oxide	AA	R937	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R711	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R938	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R712	VRD-RM2HD102JY	X 1k	1/2W Carbon	AA	R939	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA
R713	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA	R940	VRS-CY1JF8R2JY	X 8.2	1/16W Metal Oxide	AA
R715	VRN-RL3DBR12J+	X 0.12	2W Metal Film	AB	R941	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R716	VRS-RG2HC152J+	X 1.5k	1/2W Metal Oxide	AB	R942	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R717	VRN-RL3DBR12J+	X 0.12	2W Metal Film	AB	R943	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R718	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA	R944	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R722	VRD-RM2HD103JY	X 10k	1/2W Carbon	AA	R945	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R723	VRD-RM2HD471JY	X 470	1/2W Carbon	AA	R946	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
R724	VRS-KT3LB473J	X 47k	3W Metal Oxide	AB	R947	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R725	VRD-RM2HD102JY	X 1k	1/2W Carbon	AA	R948	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
△ R727	RR-HZ0014GEZZY	X 12M	1W AB		R949	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R730	VRD-RA2BE100JY	X 10	1/8W Carbon	AA	R950	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
R731	VRD-RA2BE101JY	X 100	1/8W Carbon	AA	R951	VRD-RA2BE680JY	X 68	1/8W Carbon	AA
R734	VRD-RM2HD124JY	X 120k	1/2W Carbon	AA	R952	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA
△ R737	VRN-RL3LBR56J+	X 0.56	3W Metal Film	AB	R953	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
R742	VRD-RA2BE222JY	X 2.2k	1/8W Carbon	AA	R954	VRS-CY1JF221JY	X 220	1/16W Metal Oxide	AA
R743	VRD-RM2HD470JY	X 47	1/2W Carbon	AA	R955	VRS-CY1JF221JY	X 220	1/16W Metal Oxide	AA
R751	VRD-RA2BE473JY	X 47k	1/8W Carbon	AA	R957	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R752	VRD-RA2BE392JY	X 3.9k	1/8W Carbon	AA	R958	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R753	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA	R959	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
R754	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA	R960	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R755	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA	R961	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R756	VRD-RA2BE152JY	X 1.5k	1/8W Carbon	AA	R962	VRS-CY1JF332FY	X 3.3k	1/16W Metal Oxide	AA
△ R757	VRN-RL3DB4R7J+	X 4.7	2W Metal Film	AB	R963	VRD-RA2BE101JY	X 100	1/8W Carbon	AA
R759	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA	R964	VRS-CY1JF152JY	X 1.5k	1/16W Metal Oxide	AA
R761	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA	R967	VRS-CY1JF682JY	X 6.8k	1/16W Metal Oxide	AA
R762	VRD-RA2BE103JY	X 10k	1/8W Carbon	AA	R968	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R764	VRD-RM2HD562JY	X 5.6k	1/2W Carbon	AA	R969	VRS-CY1JF472FY	X 4.7k	1/16W Metal Oxide	AA
R767	VRD-RM2HD220JY	X 22	1/2W Carbon	AA	R970	VRD-RA2BE6R8JY	X 6.8	1/8W Carbon	AA
R768	VRD-RA2BE473JY	X 47k	1/8W Carbon	AA	R971	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R770	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R972	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R771	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA	R973	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
R772	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA	R974	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
R773	VRD-RM2HD823JY	X 82k	1/2W Carbon	AA	R975	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA
R774	VRD-RA2BE272JY	X 2.7k	1/8W Carbon	AA	R982	VRS-CY1JF750JY	X 75	1/16W Metal Oxide	AA
R775	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA	R983	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R776	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA	R984	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R801	VRS-CY1JF333JY	X 33k	1/16W Metal Oxide	AA	△ R1420	VRN-RL3LB2R7J+	X 2.7	3W Metal Film	AB
R802	VRS-CY1JF471JY	X 470	1/16W Metal Oxide	AA	R2001	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R803	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA	R2004	VRS-CY1JF101JY	X 100	1/16W Metal Oxide	AA
R805	VRS-CY1JF682JY	X 6.8k	1/16W Metal Oxide	AA	R2008	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R806	VRS-CY1JF681JY	X 680	1/16W Metal Oxide	AA	R2010	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R807	VRS-CY1JF681JY	X 680	1/16W Metal Oxide	AA	R2013	VRS-CY1JF682JY	X 6.8k	1/16W Metal Oxide	AA
R808	VRS-CY1JF681JY	X 680	1/16W Metal Oxide	AA	R2021	VRS-CY1JF334JY	X 330k	1/16W Metal Oxide	AA
R810	VRS-CY1JF472JY	X 4.7k	1/16W Metal Oxide	AA	R2024	VRS-CY1JF472JY	X 4.7k	1/16W Metal Oxide	AA
R903	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R2025	VRS-CY1JF472JY	X 4.7k	1/16W Metal Oxide	AA
R904	VRS-CY1JF683JY	X 68k	1/16W Metal Oxide	AA	R2026	VRS-CY1JF472JY	X 4.7k	1/16W Metal Oxide	AA
R905	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA	R2027	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R906	VRD-RA2BE332JY	X 3.3k	1/8W Carbon	AA	R2028	VRD-RA2BE102JY	X 1k	1/8W Carbon	AA
R907	VRS-CY1JF152JY	X 1.5k	1/16W Metal Oxide	AA	R2031	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA
R908	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA	R2033	VRS-CY1JF334JY	X 330k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code	
R2040	VRS-CY1JF102JY	X	1k	1/16W Metal Oxide	AA	J921	QSOCD0456CEZZ	X	Socket, S-Video	AC
R2041	VRS-CY1JF333JY	X	33k	1/16W Metal Oxide	AA	J1401	QTANJ1101SEZZ	X	Terminal, AV IN/OUT	AF
R2042	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA	P361	QPLGN0461CEZZA	X	Plug, 4Pin(S1-4)	AB
R2043	VRS-CY1JF333JY	X	33k	1/16W Metal Oxide	AA	P401	QPLGN0861CEZZA	X	Plug, 8Pin(CJ)	AB
R2044	VRS-CY1JF153JY	X	15k	1/16W Metal Oxide	AA	P605	QPLGN0160FJZZ	X	Plug, 5Pin(K1-5)	AB
R2046	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA	P621	QPLGN0761CEZZA	X	Plug, 7Pin(N)	AB
R2047	VRS-CY1JF221JY	X	220	1/16W Metal Oxide	AA	P651	QPLGN0361CEZZA	X	Plug, 3Pin	AB
R2048	VRS-CY1JF562JY	X	5.6k	1/16W Metal Oxide	AA	P702	QPLGN0157FJZZ	X	Plug, 2Pin(QA)	AB
R2051	VRS-CY1JF102JY	X	1k	1/16W Metal Oxide	AA	P707	QPLGN0241CEZZ	X	Plug, 2Pin(QB)	AB
R2060	VRS-CY1JF221JY	X	220	1/16W Metal Oxide	AA	P2401	QPLGN0661CEZZA	X	Plug, 6Pin	AB
R2061	VRS-CY1JF562JY	X	5.6k	1/16W Metal Oxide	AA	RDA361PRDAR0258PEFW	X	Heat Sink for IC361	AC	
R2062	VRS-CY1JF223JY	X	22k	1/16W Metal Oxide	AA	RDA501PRDARA039WJFW	X	Heat Sink for IC501	AD	
R2063	VRS-CY1JF222JY	X	2.2k	1/16W Metal Oxide	AA	RDA601PRDARA041WJFW	X	Heat Sink for Q602	AD	
R2064	VRS-CY1JF332JY	X	3.3k	1/16W Metal Oxide	AA	RDA671PRDARA057WJFW	X	Heat Sink for Q673	AC	
R2073	VRS-CY1JF000JY	X	0	1/16W Metal Oxide	AA	△ RDA702PRDAR0279PEFW	X	Heat Sink for Q702	AB	
R2084	VRS-CY1JF103JY	X	10k	1/16W Metal Oxide	AA	RDA750PRDAR05072CEFW	X	Heat Sink for IC751	AB	
R2086	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA	RDA1403PRDAR05072CEFW	X	Heat Sink for IC1403	AB	
R2090	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA	RMC2601RRMCU0222CEZZ	X	Remote Receiver	AD	
R2092	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R2101	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R2102	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R2201	VRS-CY1JF222JY	X	2.2k	1/16W Metal Oxide	AA					
R2202	VRS-CY1JF103JY	X	10k	1/16W Metal Oxide	AA					
R2203	VRS-CY1JF473JY	X	47k	1/16W Metal Oxide	AA					
R2211	VRS-CY1JF222JY	X	2.2k	1/16W Metal Oxide	AA					
R2212	VRS-CY1JF682JY	X	6.8k	1/16W Metal Oxide	AA					
R2213	VRS-CY1JF333JY	X	33k	1/16W Metal Oxide	AA					
R2401	VRD-RA2BE101JY	X	100	1/8W Carbon	AA					
R2402	VRD-RA2BE101JY	X	100	1/8W Carbon	AA					
R2403	VRD-RA2BE101JY	X	100	1/8W Carbon	AA					
R2404	VRD-RA2BE101JY	X	100	1/8W Carbon	AA					
R2501	VRS-CY1JF183JY	X	18k	1/16W Metal Oxide	AA					
R2502	VRS-CY1JF183JY	X	18k	1/16W Metal Oxide	AA					
R2503	VRS-CY1JF103JY	X	10k	1/16W Metal Oxide	AA					
R2504	VRS-CY1JF103JY	X	10k	1/16W Metal Oxide	AA					
R2505	VRD-RA2BE822JY	X	8.2k	1/8W Carbon	AA					
R2506	VRD-RA2BE822JY	X	8.2k	1/8W Carbon	AA					
R2507	VRD-RA2BE183JY	X	18k	1/8W Carbon	AA					
R2508	VRD-RA2BE183JY	X	18k	1/8W Carbon	AA					
R2509	VRS-CY1JF000JY	X	0	1/16W Metal Oxide	AA					
R2601	VRD-RA2BE100JY	X	10	1/8W Carbon	AA					
R2603	VRS-CY1JF000JY	X	0	1/16W Metal Oxide	AA					
R2605	VRS-CY1JF000JY	X	0	1/16W Metal Oxide	AA					
R2606	VRS-CY1JF000JY	X	0	1/16W Metal Oxide	AA					
R3001	VRS-CY1JF221JY	X	220	1/16W Metal Oxide	AA					
R3002	VRS-CY1JF221JY	X	220	1/16W Metal Oxide	AA					
R3003	VRS-CY1JF105JY	X	1M	1/16W Metal Oxide	AA					
R3004	VRS-CY1JF104JY	X	100k	1/16W Metal Oxide	AA					
R3005	VRS-CY1JF623JY	X	62k	1/16W Metal Oxide	AA					
R3007	VRS-CY1JF332JY	X	3.3k	1/16W Metal Oxide	AA					
R3008	VRS-CY1JF302JY	X	3k	1/16W Metal Oxide	AA					
R3010	VRS-CY1JF392JY	X	3.9k	1/16W Metal Oxide	AA					
R3017	VRS-CY1JF102JY	X	1k	1/16W Metal Oxide	AA					
R3018	VRS-CY1JF102JY	X	1k	1/16W Metal Oxide	AA					
R3019	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R3020	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R3021	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R3023	VRS-CY1JF101JY	X	100	1/16W Metal Oxide	AA					
R3024	VRD-RA2BE102JY	X	1k	1/8W Carbon	AA					
SWITCHES										
S2501	QSW-KA003WJZZ+	X	Switch, POWER		AB					
S2502	QSW-KA003WJZZ+	X	Switch, MENU		AB					
S2503	QSW-KA003WJZZ+	X	Switch, VOL-DOWN		AB					
S2504	QSW-KA003WJZZ+	X	Switch, VOL-UP		AB					
S2505	QSW-KA003WJZZ+	X	Switch, CH-DOWN		AB					
S2506	QSW-KA003WJZZ+	X	Switch, CH-UP		AB					
BALUNES										
FB601	RBLN-0047CEZZY	X	Balun		AB					
FB706	RBLN-0037CEZZY	X	Balun		AB					
FB2001RBLN-0037CEZZY	X	Balun			AB					
MISCELLANEOUS PARTS										
CF2040	RCRM-0003CEZZ+	X	Ceramic Vibrator		AC					
J904	QJAKGA023WJZZ	X	Jack, Front AV IN		AC					
DUNTKA527WEW7 PWB-B CRT UNIT										
INTEGRATED CIRCUIT										
△ IC850	VHiTDA6103Q-1	X	TDA6103Q/N3						AG	
TRANSISTORS										
Q850	VS2SA1266-Y-1+	X	2SA1266-Y						AB	
Q851	VS2SC3198-G-1+	X	2SC3198-G						AB	
Q1504	VS2SC3198-G-1+	X	2SC3198-G						AB	
Q1505	VS2SA1266-Y-1+	X	2SA1266-Y						AB	
Q1506	VS2SA1964E/-1	X	2SA1964E						AC	
Q1507	VS2SC5248E/-1	X	2SC5248E						AC	
DIODES										
D850	RH-DX0220CEZZY	X	DX0220CE						AB	
D851	RH-DX0220CEZZY	X	DX0220CE						AB	
D852	RH-DX0220CEZZY	X	DX0220CE						AB	
D853	RH-EX0647GEZZY	X	Zener Diode, 15V						AB	
D854	VHD1SS119/-1Y	X	1SS119						AA	
D855	VHD1SS119/-1Y	X	1SS119						AA	
D862	VHD1SS119/-1Y	X	1SS119						AA	
D1502	VHD1SS119/-1Y	X	1SS119						AA	
D1503	VHD1SS119/-1Y	X	1SS119						AA	
D1506	RH-DX0487CEZZY	X	DX0487CE						AB	
D1507	RH-DX0487CEZZY	X	DX0487CE						AB	
D1510	VHD1SS119/-1Y	X	1SS119						AA	
CAPACITORS										
C850	VCFYSB2EB224K	X	0.22	250V					AB	
C851	RC-KZ018JCEZZ	X	0.01	AC250V					AB	
C852	VCEA0A1CW107M+X	100	16V	Electrolytic					AB	
C853	VCFYFA1HA224J+	X	0.22	50V	Mylar				AB	
C854	VCEA0A1CW227M+X	220	16V	Electrolytic					AB	
C855	VCEA0A2EW106M+X	10	250V	Electrolytic					AB	
C856	VCEA0A1HW226M+X	22	50V	Electrolytic					AB	
C1501	VCEA0A1CW476M+X	47	16V	Electrolytic					AB	
C1506	VCKYPA1HF103Z+	X	0.01	50V	Ceramic				AA	
C1508	VCKYPA2HB472K+	X	4700p	500V	Ceramic				AB	
C1509	VCKYPA1HB472K+	X	4700p	50V	Ceramic				AB	
C1510	VCKYPA1HF103Z+	X	0.01	50V	Ceramic				AA	
C1511	VCKYPA1HF103Z+	X	0.01	50V	Ceramic				AA	
C1515	VCEA0A1HW476M+X	47	50V	Electrolytic					AB	
C1516	VCEA0A1HW476M+X	47	50V	Electrolytic					AB	
C1517	VCEA0A2AW106M+X	10	100V	Electrolytic					AB	
C1518	VCCSPA2HL560K+	X	56p	500V	Ceramic				AB	
C1519	VCEA0A2CW106M+X	10	160V	Electrolytic					AB	
RESISTORS										
△ R850	VRS-SV2HC152J	X	1.5k	1/2W	Metal Oxide				AB	
△ R851	VRS-SV2HC152J	X	1.5k	1/2W	Metal Oxide				AB	
△ R852	VRS-SV2HC152J	X	1.5k	1/2W	Metal Oxide				AB	
△ R853	VRS-SV2HC272J	X	2.7k	1/2W	Metal Oxide				AB	

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code	
△ R854	VRS-SV2HC272J	X	2.7k	1/2W Metal Oxide	AB	C1413	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
△ R855	VRS-SV2HC272J	X	2.7k	1/2W Metal Oxide	AB	C1414	VCCCCY1HH3R0CYX	3p	50V Ceramic	AA
R856	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1415	VCE9GA1CW106M+X	10	16V Electrolytic, (N.P)	AB
R857	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1416	VCEA0A1CW477M+X	470	16V Electrolytic	AB
R858	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1417	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R861	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1420	VCCCCY1HH270JY	X 27p	50V Ceramic	AA
R862	VRC-MA2HG152KY	X	1.5k	1/2W Solid	AB	C1421	VCCCCY1HH120JY	X 12p	50V Ceramic	AA
R863	VRC-MA2HG152KY	X	1.5k	1/2W Solid	AB	C1422	VCCCCY1HH120JY	X 12p	50V Ceramic	AA
R864	VRC-MA2HG152KY	X	1.5k	1/2W Solid	AB	C1423	VCCCCY1HH3R0CYX	3p	50V Ceramic	AA
△ R867	VRS-SV2HC392J	X	3.9k	1/2W Metal Oxide	AB	C1424	VCCCCY1HH270JY	X 27p	50V Ceramic	AA
△ R868	VRS-SV2HC682J	X	6.8k	1/2W Metal Oxide	AB	C1425	VCCCCY1HH100DYX	10p	50V Ceramic	AA
R869	VRD-RA2BE103JY	X	10k	1/8W Carbon	AA	C1428	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R870	VRD-RA2BE223JY	X	22k	1/8W Carbon	AA	C1435	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R871	VRD-RA2BE472JY	X	4.7k	1/8W Carbon	AA	C1436	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R872	VRD-RA2EE680JY	X	68	1/4W Carbon	AA	C1439	VCE9GA1CW106M+X	10	16V Electrolytic, (N.P)	AB
R873	VRD-RM2HD224JY	X	220k	1/2W Carbon	AA	C1440	VCEA0A1HW106M+X	10	50V Electrolytic	AB
R874	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1441	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R875	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1442	VCFYFA1HA474J+	X 0.47	50V Mylar	AB
R876	VRD-RM2HD104JY	X	100k	1/2W Carbon	AA	C1443	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R877	VRD-RA2BE103JY	X	10k	1/8W Carbon	AA	C1444	VCKYCY1HB472KY	X 4700p	50V Ceramic	AA
△ R878	VRS-SV2HC120J	X	12	1/2W Metal Oxide	AB	C1445	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1511	VRD-RA2BE101JY	X	100	1/8W Carbon	AA	C1446	VCCCCY1HH181JY	X 180p	50V Ceramic	AB
△ R1513	VRS-VV3DB561J	X	560	2W Metal Oxide	AB	C1447	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1514	VRD-RA2BE100JY	X	10	1/8W Carbon	AA	C1448	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R1515	VRD-RA2BE820JY	X	82	1/8W Carbon	AA	C1449	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R1516	VRD-RA2BE820JY	X	82	1/8W Carbon	AA	C1451	VCEA0A1CW107M+X	100	16V Electrolytic	AB
R1517	VRD-RA2BE122JY	X	1.2k	1/8W Carbon	AA	C1452	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R1518	VRD-RA2BE683JY	X	68k	1/8W Carbon	AA	C1453	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1519	VRD-RA2BE123JY	X	12k	1/8W Carbon	AA	C1454	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1520	VRD-RA2BE683JY	X	68k	1/8W Carbon	AA	C1455	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1521	VRD-RA2BE122JY	X	1.2k	1/8W Carbon	AA	C1456	VCKYCY1CF104ZY	X 0.1	16V Ceramic	AA
R1525	VRD-RA2EE560JY	X	56	1/4W Carbon	AA	C1457	VCEA0A1HW106M+X	10	50V Electrolytic	AB
R1526	VRD-RA2EE560JY	X	56	1/4W Carbon	AA	C1458	VCEA0A1HW106M+X	10	50V Electrolytic	AB
R1527	VRD-RM2HD1R5JY	X	1.5	1/2W Carbon	AA	C1460	VCKYCY1HF103ZY	X 0.01	50V Ceramic	AA
R1528	VRD-RM2HD1R5JY	X	1.5	1/2W Carbon	AA	C1470	VCCCCY1HH270JY	X 27p	50V Ceramic	AA
△ R1529	VRS-VV3DB221J	X	220	2W Metal Oxide	AB	C1474	VCCCCY1HH150JY	X 15p	50V Ceramic	AA
R1530	VRD-RA2BE122JY	X	1.2k	1/8W Carbon	AA					

MISCELLANEOUS PARTS

FB1501RBLN-0020CEZZ+	X Balun	AB	
P854	QPLGN0741CEZZ	X Plug, 7Pin(N)	AB
P860	QPLGN0841CEZZ	X Plug, 8Pin(CJ)	AB
△ P861	QPLGN0241CEZZ	X Plug, 2Pin(PU1-2)	AB
RDA850	PRDAR0248PEFW	X Heat Sink for IC850	AB
RDA1506	PRDAR5072CEF	X Heat Sink for Q1506	AB
RDA1507	PRDAR5072CEF	X Heat Sink for Q1507	AB
SC850	QSOCV1011CEZZ	X CRT Socket, 12Pin	AC

**DUNTKB573WEV0
PWB-C 3-LINE Y/C UNIT****INTEGRATED CIRCUIT**

IC1401	VHiTC90A53F-1Y	X TC90A53F	AP
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TRANSISTORS

Q1401	VS2SD601AR/-1Y	X 2SD601AR	AB
Q1402	VS2SD601AR/-1Y	X 2SD601AR	AB
Q1403	VS2SB709AR/-1Y	X 2SB709AR	AB
Q1404	VS2SD601AR/-1Y	X 2SD601AR	AB
Q1406	VS2SB709AR/-1Y	X 2SB709AR	AB
Q1407	VS2SD601AR/-1Y	X 2SD601AR	AB
Q1408	VS2SB709AR/-1Y	X 2SB709AR	AB

COILS

L1401	VP-XF100K000Y	X Peaking	10μH	AB
L1402	VP-XF100K000Y	X Peaking	10μH	AB
L1406	VP-XF220K000Y	X Peaking	22μH	AB
L1407	VP-XF220K000Y	X Peaking	22μH	AB
L1408	VP-XF100K000Y	X Peaking	10μH	AB
L1410	VP-XF100K000Y	X Peaking	10μH	AB
L1414	VP-XF330K000Y	X Peaking	33μH	AB
L1417	VP-XF220K000Y	X Peaking	22μH	AB

CAPACITORS

C1412	VCEA0A1HW106M+X	10	50V	Electrolytic	AB
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RESISTORS

RJ1	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ2	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ3	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ4	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ5	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ6	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
RJ7	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
R1402	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
R1405	VRS-CY1JF361JY	X 360	1/16W Metal Oxide	AA
R1406	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1407	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1410	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R1411	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R1412	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1413	VRS-CY1JF122JY	X 1.2k	1/16W Metal Oxide	AA
R1414	VRS-CY1JF331JY	X 330	1/16W Metal Oxide	AA
R1415	VRS-CY1JF391JY	X 390	1/16W Metal Oxide	AA
R1416	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1421	VRS-CY1JF471FY	X 470	1/16W Metal Oxide	AA
R1423	VRS-CY1JF152FY	X 1.5k	1/16W Metal Oxide	AA
R1426	VRS-CY1JF000JY	X 0	1/16W Metal Oxide	AA
R1428	VRS-CY1JF332JY	X 3.3k	1/16W Metal Oxide	AA
R1429	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA
R1430	VRS-CY1JF473JY	X 47k	1/16W Metal Oxide	AA
R1431	VRS-CY1JF223JY	X 22k	1/16W Metal Oxide	AA
R1432	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1433	VRS-CY1JF122JY	X 1.2k	1/16W Metal Oxide	AA
R1434	VRS-CY1JF331JY	X 330	1/16W Metal Oxide	AA
R1435	VRS-CY1JF102JY	X 1k	1/16W Metal Oxide	AA
R1436	VRS-CY1JF331JY	X 330	1/16W Metal Oxide	AA
R1438	VRS-CY1JF222JY	X 2.2k	1/16W Metal Oxide	AA
R1456	VRS-CY1JF564JY	X 560k	1/16W Metal Oxide	AA
R1457	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA
R1458	VRD-RA2BE103JY	X 10k	1/8W Carbon	AA
R1459	VRS-CY1JF821JY	X 820	1/16W Metal Oxide	AA
R1466	VRS-CY1JF103JY	X 10k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1467	VRS-CY1JF682JY	X	6.8k 1/16W Metal Oxide	AA
R1473	VRS-CY1JF102JY	X	1k 1/16W Metal Oxide	AA
R1475	VRS-CY1JF102JY	X	1k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

FB1401	RBLN-0061TAZZY	X	Balun	AB
P1401	QPLGZ0810CEZZ	X	Plug, 8Pin	AB

DUNTKC379WEV0 PWB-G POWER UNIT

PACKGED CIRCUITS

△ VA1701	RH-VX0048CEZZ	X	Varistor	AB
△ PR1701	RMPTP0083CEZZ	X	Packaged Circuit	AG

COIL

△ L1701	RCiLF0345CEZZ	X	Coil	AC
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CAPACITOR

C1704	RC-FZA022WJZZ	X	0.22 275V	AB
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RESISTORS

△ R1701	RR-DZ0049CEZZY	X	3.9M 1/2W	AB
R1702	VRS-VV3LB101J	X	100 3W Metal Oxide	AB
R1703	VRW-KQ41C1R5K	X	1.5 15W Cement	AB
R1704	VRW-KQ41C1R5K	X	1.5 15W Cement	AB

MISCELLANEOUS PARTS

△ ACC701	QACCZA020WJPZ	X	AC Cord	AC
△ F1701	QFS-C5022CEZZ	X	Fuse, T5AL/250V	AC
△ FH1701	QFSHD1002CEZZ	X	Fuse Holder	AB
△ FH1702	QFSHD1002CEZZ	X	Fuse Holder	AB
P1701	QPLGN0269GEZZ	X	Plug, 2Pin(A1-2)	AB
P1702	QPLGN0460CEZZ	X	Plug, 4Pin(M1-4)	AB
P1703	QPLGN0157FJZZ	X	Plug, 2Pin(QA)	AB
P1704	QPLGN0241CEZZ	X	Plug, 2Pin(QB)	AB
△ RY1702	RRLYJ0090CEZZ	X	Relay	AC
LHLDW1002PEZZ	LHLDW1002PEZZ	X	Holder	AB

DUNTKB571WEV1 PWB-S AUDIO UNIT

INTEGRATED CIRCUIT

IC3501	VHiNJW1140G-1Y	X	NJW1140GK1	AM
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DIODES

D3501	RH-EX0619GEZZY	X	Zener Diode, 6.2V	AB
D3502	RH-EX0619GEZZY	X	Zener Diode, 6.2V	AB

CAPACITORS

C3501	VCQYTA1HM104J+	X	0.1 50V Mylar	AB
C3502	VCFYFA1HA33AJ+	X	0.33 50V Mylar	AB
C3503	VCKYCY1HB822KY	X	8200p 50V Ceramic	AA
C3509	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3510	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3511	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3512	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3513	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3514	VCEA0A1CW476M+X	47	16V Electrolytic	AB
C3515	VCKYCY1HB103KY	X	0.01 50V Ceramic	AA
C3531	VCQYTA1HM104J+	X	0.1 50V Mylar	AB
C3533	VCKYCY1EB223KY	X	0.022 25V Ceramic	AA
C3539	VCFYFA1HA33AJ+	X	0.33 50V Mylar	AB
C3540	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3541	VCEA0A1HW105M+X	1	50V Electrolytic	AB
C3694	VCE9GA1HW475M+X	4.7	50V Electrolytic, (N.P.)	AB

Ref. No.	Part No.	★	Description	Code
C3695	VCE9GA1HW475M+X	4.7	50V Electrolytic, (N.P.)	AB

RESISTORS

RJ1	VRS-CY1JF000JY	X	0 1/16W Metal Oxide	AA
RJ2	VRS-CY1JF000JY	X	0 1/16W Metal Oxide	AA
RJ4	VRS-CY1JF000JY	X	0 1/16W Metal Oxide	AA
RJ5	VRS-CY1JF000JY	X	0 1/16W Metal Oxide	AA
R3501	VRS-CY1JF472JY	X	4.7k 1/16W Metal Oxide	AA
R3502	VRS-CY1JF221JY	X	220 1/16W Metal Oxide	AA
R3531	VRS-CY1JF221JY	X	220 1/16W Metal Oxide	AA
R3532	VRS-CY1JF221JY	X	220 1/16W Metal Oxide	AA
R3533	VRS-CY1JF221JY	X	220 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

P3004	QPLGN0242CEZZ	X	Plug, 2Pin(TP3001-2)	AA
P3006	QPLGZ0610CEZZ	X	Plug, 6Pin	AB
P3007	QPLGZ0610CEZZ	X	Plug, 6Pin	AB

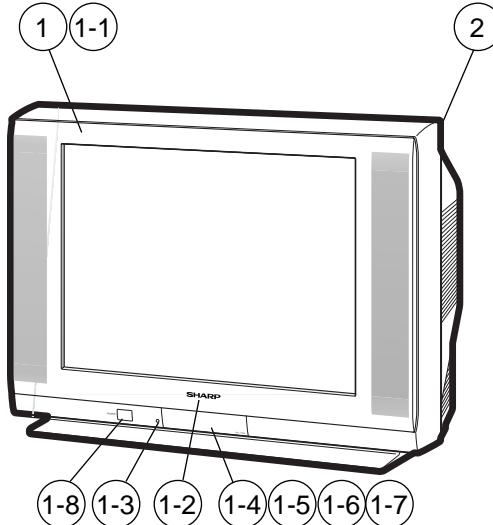
Ref. No.	Part No.	★	Description	Code
MISCELLANEOUS PARTS				
SP1	VSP1206PB708A	X	Speaker(L)	AG
SP2	VSP1206PB708A	X	Speaker(R)	AG
QCNW-B020WJZZ	X	Connecting Cord	AC	
QCNW-B021WJZZ	X	Connecting Cord	AC	
QCNW-B022WJZZ	X	Connecting Cord	AC	
QCNW-C156WJPZ	X	Connecting Cord	AC	
QCNW-C157WJPZ	X	Connecting Cord	AB	
QPLGA0017CEZZ	X	Plug	AC	

SUPPLIED ACCESSORIES			
RRMCGA108WJSA	X	Infrared R-C	AT
TINS-B123WJZZ	X	Instruction Book	AE

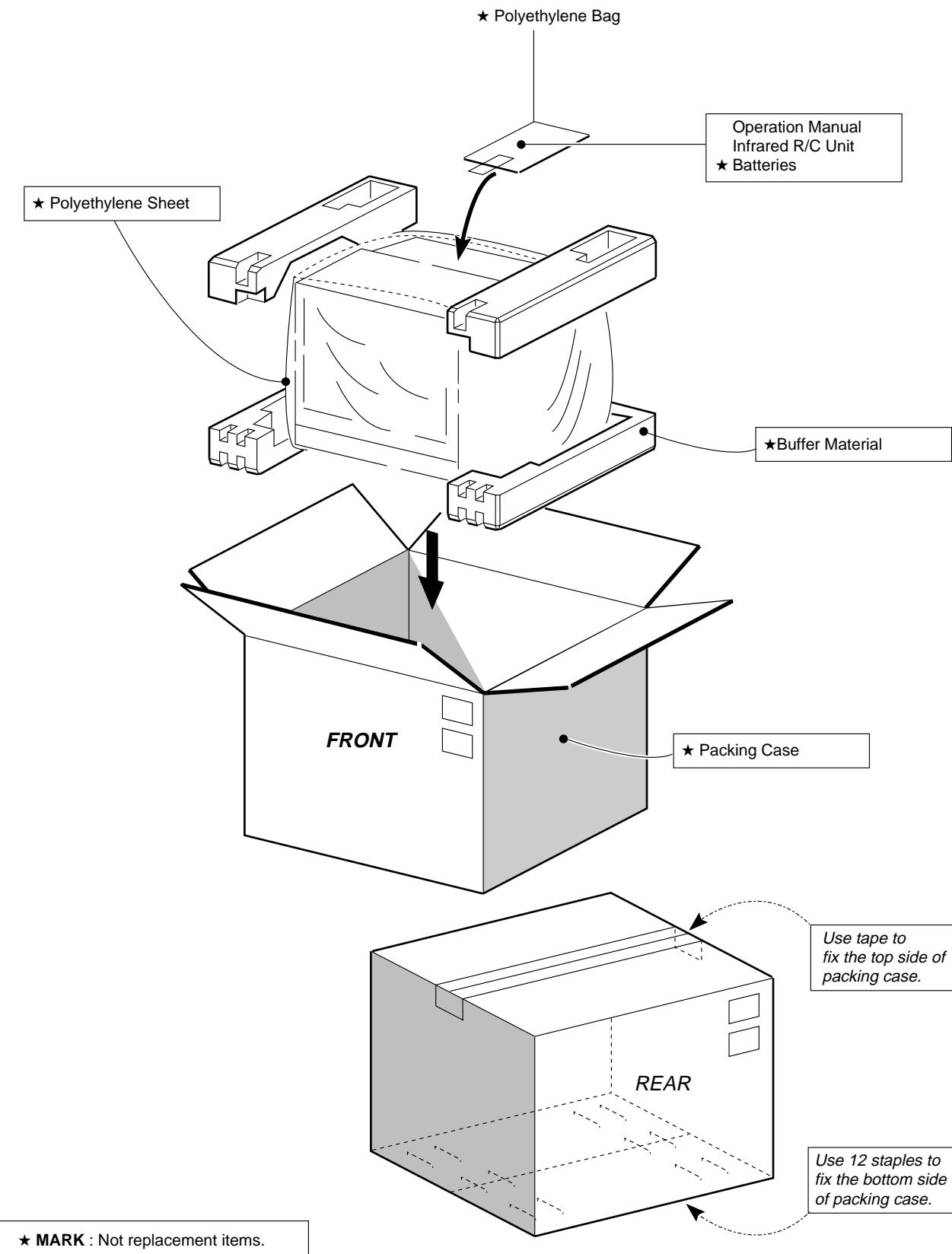
Ref. No.	Part No.	★	Description	Code
PACKING PARTS (NOT REPLACEMENT ITEM)				
	SPAKCB224WJZZ	-	Packing Case	—
	SPAKP0109GJZZ	-	Wrapping Paper	—
	SPAKXA180WJZZ	-	Buffer Material	—
	SSAKA0101GJZZ	-	Polyethylene Bag	—

CABINET PARTS			
1	CCABAA543WEH0	X	Front Cabinet Ass'y
1-1	<i>Not Available</i>		— Front Cabinet
1-2	HBDGB3141CESA	X	SHARP Badge
1-3	GCOVAA282WJKA	X	LED/RC Cover
1-4	GCOVHA017WJKZ	X	Cover
1-5	GDORFA027WJKB	X	Door
1-6	HiNDPA278WJSA	X	Indication Plate
1-7	MSPRPA012WJFW	X	Spring
1-8	JBTN-A106WJKB	X	Power Button
2	GCABBA153WJKA	X	REAR Cabinet

CABINET PARTS LOCATION



PACKING OF THE SET



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