

NEC

MODEL XM-2950/XM-2950G

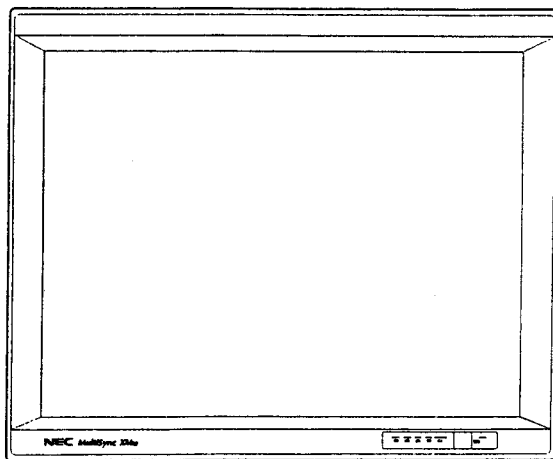
MultiSync Multimedia Monitor SERVICE MANUAL

PART No. 399910838



Better Service
Better Reputation
Better Profit

Use the SERVICE MANUAL together with SERVICE MANUAL SUPPLEMENT PG-2740 (399910815), as this SERVICE MANUAL covers only differentia.



SAFETY CAUTION:

Before servicing this chassis, it is important that the service technician read and follow the "Safety Precautions" and "Product Safety Notice" in this Service Manual.

* For continued X-radiation protection, replace picture tube with original type or NEC approved equivalent type.

WARNING:

SHOCK HAZARD - Use an isolation transformer when servicing.

NEC Corporation

TOKYO, JAPAN



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	(Refer to PG-2740)
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SPECIFICATIONS

Picture tube	27 Inch Visual size (Diagonal), Type A68KZN696X(T) 108 degree deflection Stripe trio pitch Ph=0.80-0.96mm, Pv=0.75mm Invar mask, Medium-short persistence phosphor Anti-static electricity coating Optical filter coating Dynamic focus
Display Colors	Analog Input: Unlimited colors
Synchronization Range	Horizontal: 15.5 KHz to 50.5kHz (Automatically) Vertical: 40 Hz to 120 Hz (Automatically)
Resolution	RGB Horizontal :800 lines/ Vertical:600 lines VIDEO Horizontal:600 lines
Video Bandwidth	RGB: 40 MHz (When No.6 pin of DIP SW 1 set to OFF) VIDEO: 8 MHz
Display Area	RGB : 95% Scan (Typically), 100% Scan (Maximum) VIDEO: 7% Overscan
Retrace Time	Horizontal: 4.2 μ sec Vertical: 0.55 msec
Power Supply	AC 120V, 60Hz XM-2950 AC220-240V, 50/60Hz XM-2950G

Power Consumption	3.5A (maximum) XM-2950 2.6A (maximum) XM2950G
Dimensions	645(W) x 530(H) x 520(D) mm / 25.39(W)x20.98(H)x20.39(D) inches
Weight	54kg / 119.1lbs
Environmental Considerations	Operating Temperature : 0°C to 40°C Humidity : 0 to 90% Altitude: 0 -10,000 feet Storage Temperature : -10°C to 55°C Humidity: 0 to 90% Altitude:0-45,000 feet
Regulations :	UL Approved (UL 1950) CSA certified Meets FCC class A requirements Meets DHHS requirements
RGB Input Terminals	RGB 1 : D-SUB 15pin RGB 2 (R, G, B, H/CS and V) Video : Analog 0.7Vp-p/75 Ohm (Positive) Sync. : Separate Sync. TTL level Horizontal Sync. (Positive/Negative) Vertical Sync. (Positive/Negative) : Composite Sync. TTL Level (Positive/Negative) : Composite sync. On green Video 0.3Vp-p (Negative) 0.7 - 5Vp-p/75 Ohm RGB 2 only

SPECIFICATIONS

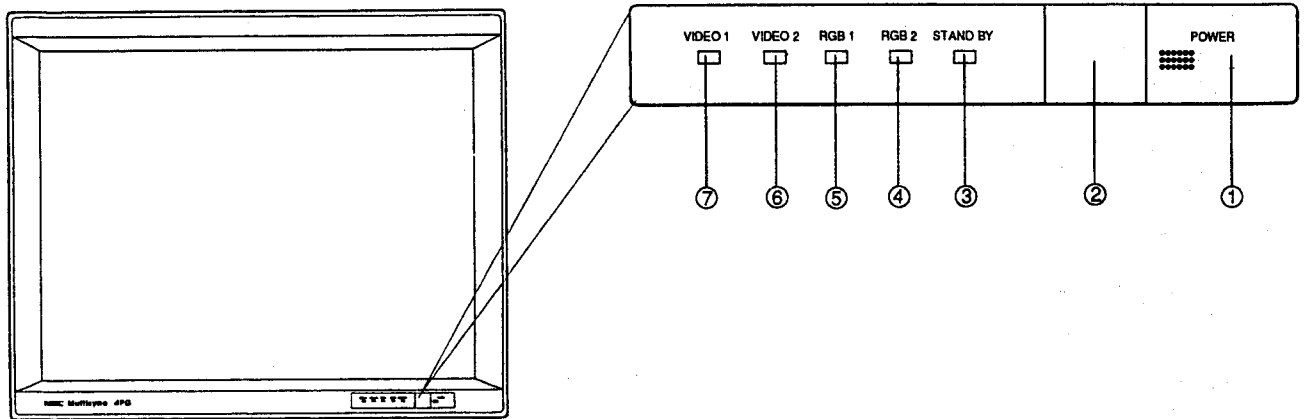
RGB Output Terminals THROUGH OUT	RGB 1 : D-SUB 15pin RGB 2 : BNC (R, G, B, H/CS and V)
Video Input Terminals VIDEO 1/2 S-VIDEO (Video 1/2)	1.0Vp-p, 75 Ohm unbalanced (BNC-Jack), Composite video signal, Sync-negative. Y : 1.0Vp-p, 75 Ohm unbalanced, Sync-negative. C : 0.28Vp-p, 75 Ohm unbalanced, Color burst level.
Video Output Terminals THROUGH OUT (Video 1, 2) THROUGH OUT (S-VIDEO 1, 2)	1.0Vp-p, 75 Ohm unbalanced (BNC Jack), Composite video signal, Sync-negative. Y : 1.0Vp-p, 75 Ohm unbalanced, Sync-negative. C : 0.28Vp-p, 75 Ohm unbalanced, Color burst level.
Audio Input Terminals VIDEO 1, 2 / RGB	Left (Mono) : 0.5 Vrms, high impedance (Pin-Jack) Right : 0.5Vrms, high impedance (Pin-Jack)
Audio Output Terminals THROUGH OUT	Left : 0.5 ± 0.1 Vrms, less than 22 K Ohm (Pin-Jack) Right : 0.5 ± 0.1 Vrms, less than 22 K Ohm (Pin-Jack)
External Control (IN/THROUGH OUT)	D-SUB 9pin (IN/THROUGH OUT)

SOUND Output Internal External	2.5W+2.5W (THD 10%) at 16 Ohm 5W+5W (THD 10%) at 8 Ohm
Speaker	Oval type 9 X 5.5 cm 16 Ohm, 2pcs.

All specifications are subject to change without notice.

LOCATION AND FUNCTIONS OF CONTROLS _____

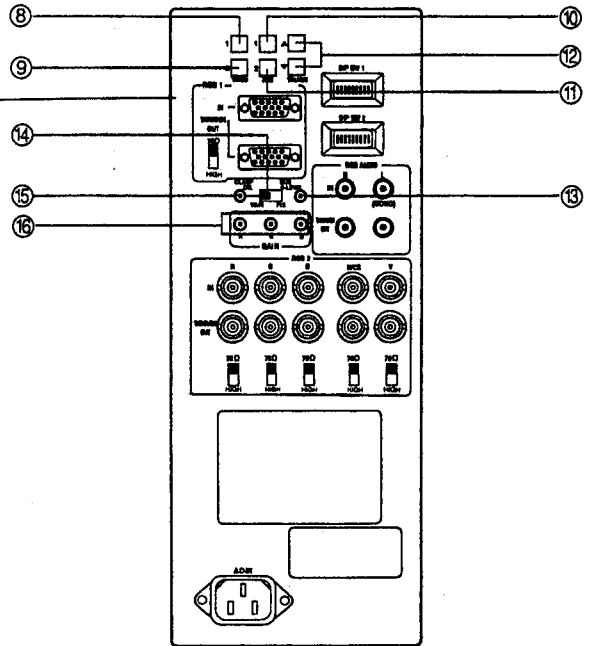
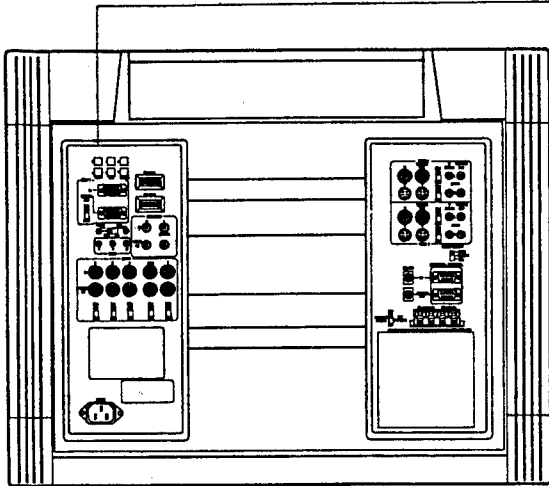
Front Panel



- ① **POWER** Press to power the monitor on and off.
- ② **Remote Sensor Window** Receives infrared signal from the remote control unit.
- ③ **STANDBY Indicator** Indicates the monitor may be turned on using the **POWER ON** key on the remote control unit.
- ④ **RGB 2 Indicator** Indicates the RGB 2 button ④ is set to receive signals from components connected to the RGB 2 input terminals (R, G, B, H/CS, V).
- ⑤ **RGB 1 Indicator** Indicates the RGB 1 button ⑤ is set to receive signals from components connected to the RGB 1 input terminal (D-SUB 15 pin).
- ⑥ **VIDEO 2 Indicator** Indicates the VIDEO 2 button ⑥ is set to receive signals from components connected to the VIDEO 2 input terminal (BNC type or S-VIDEO 2 IN).
- ⑦ **VIDEO 1 Indicator** Indicates the VIDEO 1 button ⑦ is set to receive signals from components connected to the VIDEO 1 input terminal (BNC type or S-VIDEO 1 IN).

LOCATION AND FUNCTIONS OF CONTROLS

Terminal Board (Left)



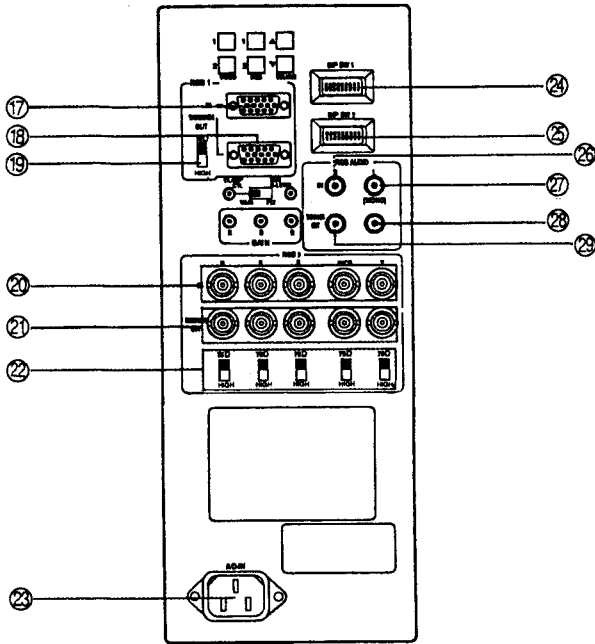
- ⑧ **VIDEO 1** Press to select reception of a component connected to the VIDEO 1 input terminal (BNC type or S-VIDEO 1 IN).
- ⑨ **VIDEO 2** Press to select reception of a component connected to the VIDEO 2 input terminal (BNC type or S-VIDEO 2 IN).

NOTE: S-VIDEO IN terminals will take preference over VIDEO IN terminals when components are connected to each terminal and VIDEO 1 or 2 selected.

- ⑩ **RGB1** Press to select reception of a component connected to the RGB 1 input terminal (D-SUB 15 pin).
- ⑪ **RGB 2** Press to select reception of a component connected to the RGB 2 input terminals (R, G, B, H/CS, and V).

- ⑫ **VOLUME (▼/▲)** Press and hold ▼ to decrease sound.
Press and hold ▲ to increase sound.
- ⑬ **SUB B-LEVEL** To be adjusted by service personnel only.
- ⑭ **CLAMP CTL FIX/VARI**
Select Switch Use to select either FIX or VARI setting.
It should normally be set to the FIX position.
When adjusting the clamp pulse position by using CLAMP CTL, set to the VARI position.
- ⑮ **CLAMP CTL** To be adjusted by service personnel only.
Turn to adjust the clamp pulse position.
- ⑯ **R,G, B GAIN** To be adjusted by service personnel only.
Turn to adjust each gain for Red, Green and Blue.

LOCATION AND FUNCTIONS OF CONTROLS



RGB 1

- ⑰ **D-SUB 15 PIN IN** A 15 Pin Analog RGB 1 input terminal compatible with computers that have a VGA output signal.
- ⑱ **D-SUB 15 PIN THROUGH OUT** Connect to RGB INPUT terminal on the *IBM monitor (#8512, #8513, #8514 or equivalent).
- ⑲ **75 Ω/HIGH Impedance Select Switch** Set to "75 Ω" during normal operation. Set to "HIGH" when using the D-SUB 15 PIN THROUGH OUT RGB 1 terminal.

RGB 2

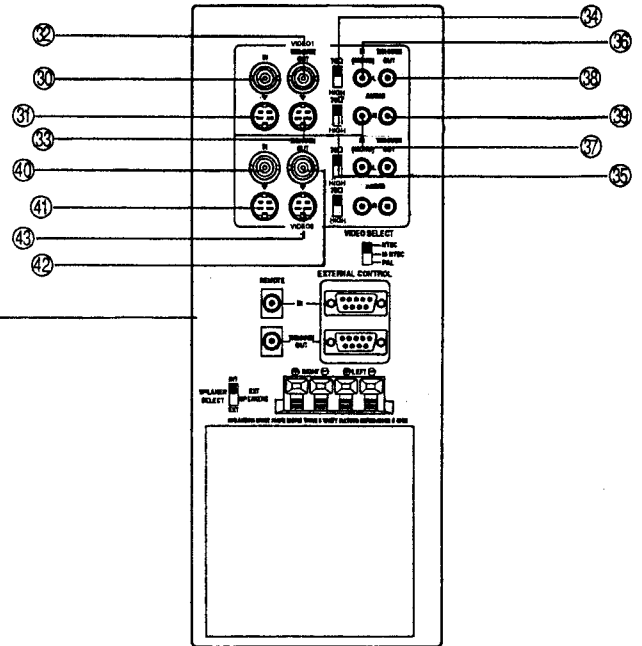
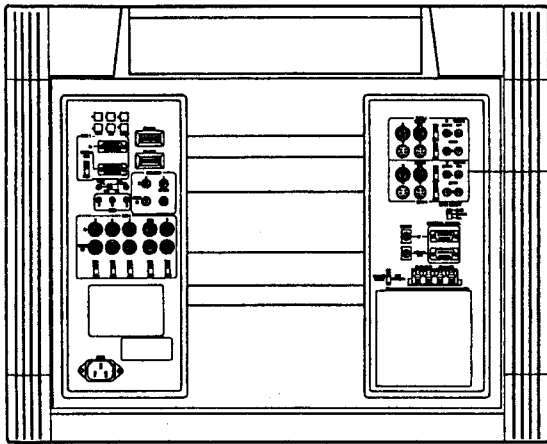
- ⑳ **R, G, B, H/CS, and V IN (BNC)** These are analog RGB input terminals. Connect external components with R, G, B, H, and V output terminals to these analog RGB input terminals. Be sure that the RGB connection cable is correctly attached to the corresponding terminals.
When connecting devices where the sync signal is an H/V composite signal, connect it to the H/CS terminal.

- ㉑ **R, G, B, H/CS, and V THROUGH OUT(BNC)** Connect to a second monitor's RGB inputs to relay the RGB signal inputs at R, G, B, H/CS, and V IN ㉒.
- ㉒ **75 Ω/HIGH Impedance Select Switch** Set to "75 Ω" during normal operation. In multiple connections using R, G, B, H/CS, and V IN ㉒ and OUT ㉑ terminals, set to "HIGH" on all but the last monitor. Set to "75 Ω" on the last monitor only.
- ㉓ **AC IN** Connect the supplied power cord's three-pin plug here.
- ㉔ **DIP SW 1** This DIP switch sets each operating mode of the monitor.
See page 18 and 19 for more details.
- ㉕ **DIP SW 2** This DIP switch sets Sync. Control and also used as D-SUB 15 PIN termination switch. Set all eight pins to the OFF position during normal operation.
See pages 20-22 for more details.

- ㉖ **R RGB AUDIO IN** Connect the audio right channel output of the RGB component.
- ㉗ **L RGB AUDIO IN (MONO)** Connect the mono audio or stereo left channel output of the RGB component.
- ㉘ **L RGB AUDIO THROUGH OUT** Connect to a second monitor's audio left channel RGB input.
- ㉙ **R RGB AUDIO THROUGH OUT** Connect to a second monitor's audio right channel RGB input.

LOCATION AND FUNCTIONS OF CONTROLS

Terminal Board (Right)



VIDEO 1

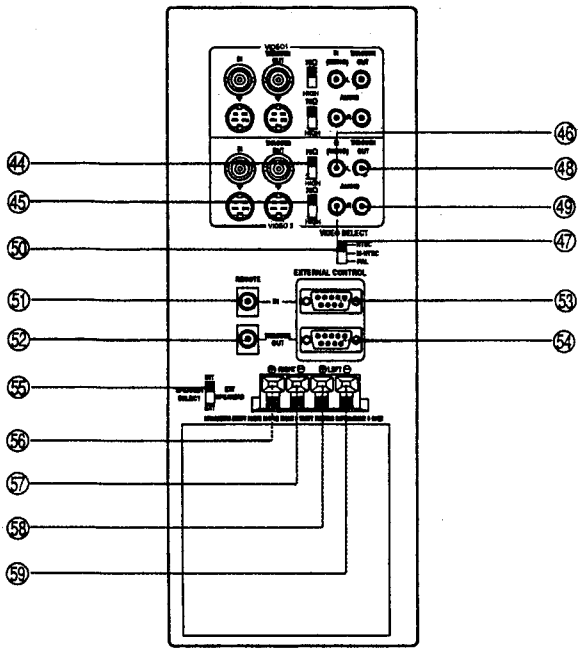
- ② VIDEO 1 IN (BNC) Connect external video component output here.
- ③ S-VIDEO 1 IN Connect external components with S-CONNECTOR output here.
- ④ THROUGH OUT (BNC) Connect to a second monitor's video input to relay the video signal input at VIDEO 1 IN ②.
- ⑤ THROUGH OUT (S-VIDEO) Connect to a second monitor's S-CONNECTOR input to relay the video signal input at S-VIDEO 1 IN ③.
- ⑥ 75 Ω /HIGH Impedance Select Switch Set to "75 Ω " during normal operation. In multiple connections using VIDEO 1 IN ② and THROUGH OUT (BNC) ④ terminals, set to "HIGH" on all but the last monitor. Set to "75 Ω " on the last monitor only.
- ⑦ 75 Ω /HIGH Impedance Select Switch Set to "75 Ω " during normal operation. In multiple connections using S-VIDEO 1 IN ③ and THROUGH OUT (S-VIDEO) ⑤ S-CONNECTOR terminals, set to "HIGH" on all but the last monitor. Set to "75 Ω " on the last monitor only.

- ⑧ L AUDIO IN (MONO) Connect external component mono audio or stereo left channel audio output here.
- ⑨ R AUDIO IN Connect external component stereo right channel audio output here.
- ⑩ L AUDIO OUT Connect to a second monitor's audio left channel input.
- ⑪ R AUDIO OUT Connect to a second monitor's audio right channel input.

VIDEO 2

- ⑫ VIDEO 2 IN (BNC) Connect external component video output here.
- ⑬ S-VIDEO 2 IN Connect external component with S-CONNECTOR output here.
- ⑭ THROUGH OUT (BNC) Connect to a second monitor's video input to relay the video signal input at VIDEO 2 IN ⑫.
- ⑮ THROUGH OUT (S-VIDEO) Connect to a second monitor's S-CONNECTOR input to relay the video signal input at S-VIDEO 2 IN ⑬.

LOCATION AND FUNCTIONS OF CONTROLS



- 44 75 Ω/HIGH Impedance Select Switch** Set to "75 Ω" during normal operation. In multiple connections using VIDEO 2 IN 44 and THROUGH OUT (BNC) 46 terminals, set to "HIGH" on all but the last monitor. Set to "75 Ω" on the last monitor only.
- 45 75 Ω/HIGH Impedance Select Switch** Set to "75 Ω" during normal operation. In multiple connections using S-VIDEO 2 IN 44 and THROUGH OUT (S-VIDEO) 48 S-CONNECTOR terminals, set to "HIGH" on all but the last monitor. Set to "75 Ω" on the last monitor only.
- 46 L AUDIO IN (MONO)** Connect external component audio mono or stereo left channel output here.
- 47 R AUDIO IN** Connect external component audio stereo right channel output here.
- 48 L AUDIO OUT** Connect to a second monitor's audio left channel input.
- 49 R AUDIO OUT** Connect to a second monitor's audio right channel input.
- 50 VIDEO SELECT Switch** Set switch to NTSC, M-NTSC or PAL depending on the selected video signal format. It should normally be set to NTSC.

51/52 REMOTE IN/OUT When the supplied remote control is used in the wired condition, connect the supplied remote cable to the REMOTE IN terminal. The REMOTE OUT terminal is used to connect several monitors together and allows all of the monitors to be controlled by one remote control.

NOTE: Up to 50 monitors can be connected in the serial connection.

53 EXTERNAL CONTROL Input This terminal is used when power ON/OFF, input selection, AUDIO MUTE, PICTURE MUTE, and DEGAUSS are operated externally (by external control). See also page 36 for the external control port pin assignments.

NOTE: Select EXT. CONTROL ON by setting pin No.7 of DIP SW 1 to ON when operating the monitor by external control.

NOTE: When in the EXT. CONTROL mode, the following operations of the supplied remote control are not possible: Power control ON/OFF, Input selection, Audio mute ON/OFF, and Degauss switch ON/OFF.

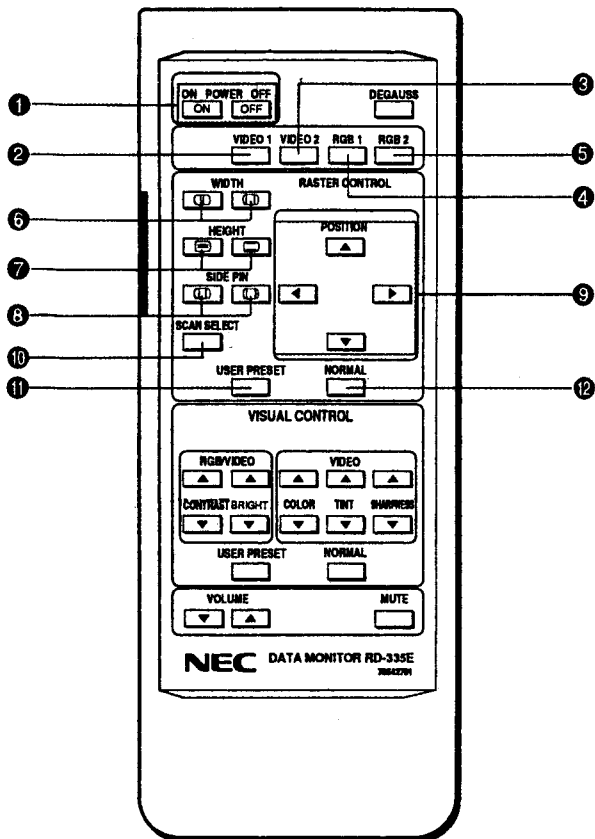
54 EXTERNAL CONTROL THROUGH OUT Connect to a second monitor's EXTERNAL CONTROL input to relay the signal input at the EXTERNAL CONTROL IN 53. The EXTERNAL CONTROL THROUGH OUT terminal is used to connect several monitors together (up to 50) and allows all of the monitors to be controlled by one external control. No.7 pin (EXT. CONTROL) of DIP SW 1 54 must be set to the ON position on all of the monitors.

55 SPEAKER SELECT INT/EXT Set to the INT position for built-in monitor speakers. Set to the EXT position for speakers connected to EXT SPEAKERS terminals.

- 56 + RIGHT** Connect RIGHT speaker positive wire here.
- 57 - RIGHT** Connect RIGHT speaker negative wire here.
- 58 - LEFT** Connect LEFT speaker negative wire here.
- 59 + LEFT** Connect LEFT speaker positive wire here.

LOCATION AND FUNCTIONS OF CONTROLS

Remote Control Unit



- ① **POWER ON/OFF** Press **POWER ON** to turn the monitor on when the **STANDBY** indicator is lit. Press **POWER OFF** to turn the monitor off and the monitor will go into the standby condition.
- ② **VIDEO 1** Press to select reception of a conventional component or S-connector component connected to **VIDEO 1 IN** terminal.
- ③ **VIDEO 2** Press to select reception of a conventional component or S-connector component connected to **VIDEO 2 IN** terminal.
- ④ **RGB1** Press to select reception of a component connected to **RGB 1 IN** terminal.
- ⑤ **RGB 2** Press to select reception of a component connected to **RGB 2 IN** terminal.

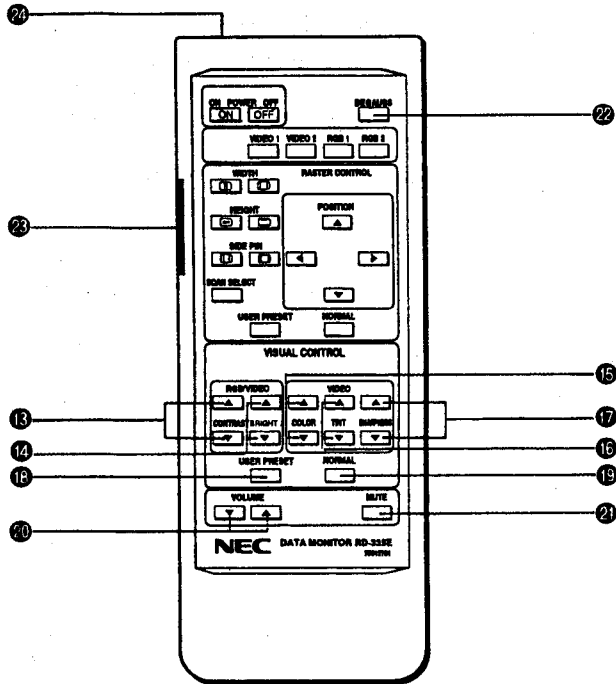
Raster Control

- ⑥ **WIDTH** (□ / □) Adjusts the horizontal size of the image from wider to narrower.
- ⑦ **HEIGHT** (≡ / ≡) Adjusts the vertical size of the image from taller to shorter.
- ⑧ **SIDE PIN** (□ / □) Adjusts the curvature of the edges of the left and right side of the display image either inward or outward. The image should be adjusted to attain a straight line on the left and right sides.
- ⑨ **POSITION** (▲ / ▼ / ◀ / ▶) ... Adjusts the vertical position of the image up and down, and the horizontal position of the image from left to right.
- ⑩ **SCAN SELECT** Pressing this button toggles picture size between **OVER SCAN** (large) and **UNDER SCAN** (small).
Normally select **OVER SCAN** for video display and **UNDER SCAN** for RGB display.
- ⑪ **USER PRESET** Press to store the raster adjustments (**WIDTH**, **HEIGHT**, **SIDE PIN**, **POSITION**, and **SCAN SELECT**) in the memory. Storing operation should be performed for each input signal. See "Signal Identification Flowchart" on pages 44 and 45.

NOTE: The monitor will recall the raster adjustment settings that were stored last when switched to a new source.

- ⑫ **NORMAL** This key resets the raster adjustment settings of user changeable memory and recalls the factory preset data.

LOCATION AND FUNCTIONS OF CONTROLS



Visual Control

- 10 RGB/VIDEO CONTRAST (▲/▼)** Used to adjust contrast of video or RGB display.
 Press and hold ▲ for higher contrast.
 Press and hold ▼ for lower contrast.
- 12 RGB/VIDEO BRIGHT (▲/▼)** Used to adjust brightness of video or RGB display.
 Press and hold ▲ for a brighter picture.
 Press and hold ▼ for a darker picture.
- 15 COLOR (▲/▼)** Used to adjust color intensity of video display.
 Press and hold ▲ for more color saturation.
 Press and hold ▼ for less color saturation.
- 16 TINT (▲/▼)** Used to adjust red and green values of video display.
 Press and hold ▲ for a greener tint.
 Press and hold ▼ for a redder tint.
 This control does not work for the PAL signal.
- 17 SHARPNESS (▲/▼)** Used to adjust picture detail of video display.
 Press and hold ▲ for a sharper picture.
 Press and hold ▼ for a softer picture.
- 20 Backlight Switch** Set to ON to light up keys from the inside of the remote control panel.
 This is useful when the remote control unit is used in a darkened room.

NOTE: The COLOR, TINT and SHARPNESS keys only work for the video display.

10 USER PRESET Press to store the picture adjustments (CONTRAST, BRIGHT, COLOR, TINT and SHARPNESS) in the memory.

NOTE: The VISUAL CONTROL storing operation is effective only for one input (VIDEO1, VIDEO2, RGB1 or RGB2).

15 NORMAL This key resets the picture adjustment settings of user changeable memory and recalls the factory preset data.

NOTE: The CONTRAST, BRIGHT, COLOR, TINT and SHARPNESS adjustment level are factory preset at the optimum position.

21 VOLUME (▼/▲) Used to adjust the volume.
 Press and hold ▼ to decrease sound.
 Press and hold ▲ to increase sound.

21 MUTE Press to cancel sound ; press again to restore sound.

NOTE: The other ways to restore sound are to press POWER ON/OFF and VOLUME keys on the remote control unit.

22 DEGAUSS This key is used to demagnetize the picture tube in the manual operation. See also page 35.

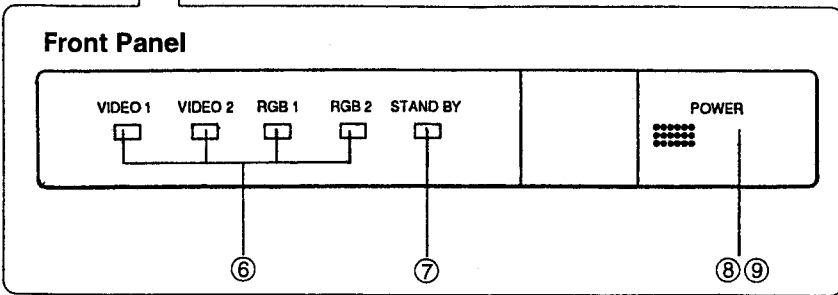
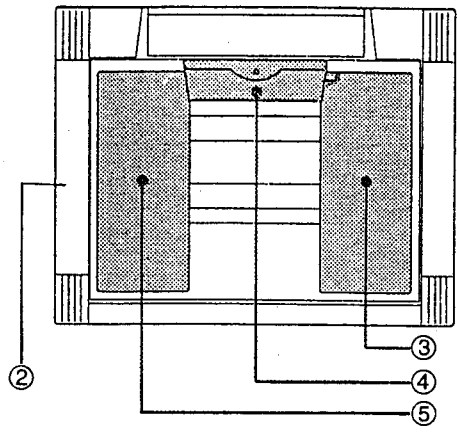
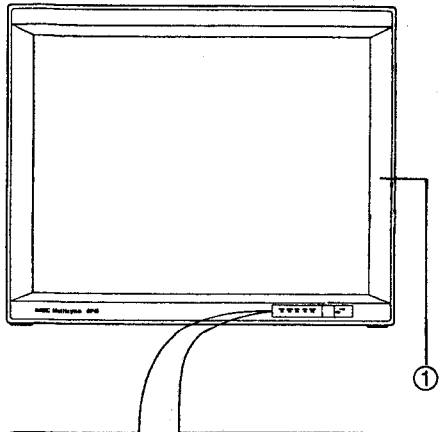
NOTE: The backlight key characters may be invisible in a bright-lit room. Make sure that the backlight switch is OFF when the remote control unit is not used.
 If no button operation is made within 30 seconds when the backlight switch is ON in the wireless condition, the backlight go off automatically. To turn the backlight on again, set the switch to the OFF position, then set it to the ON position.

22 Remote Jack Insert the plug of the supplied remote cable when using the supplied remote control unit in the wired condition. Connecting the monitor and the remote control unit with the supplied remote cable turns on the backlight when the switch is set to the ON position.

APPEARANCE PART LOCATION

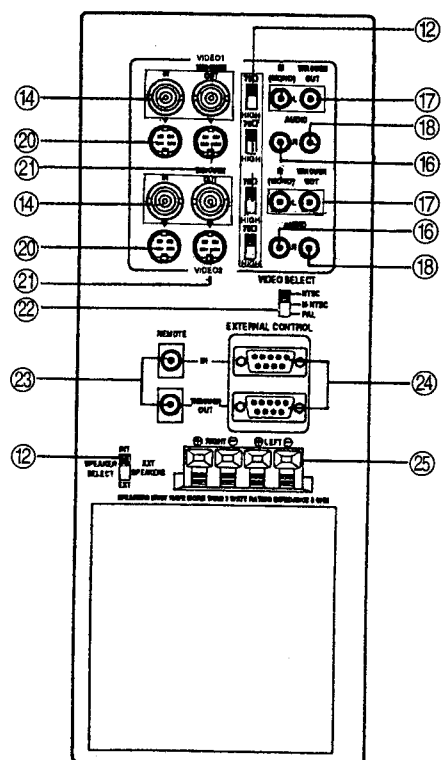
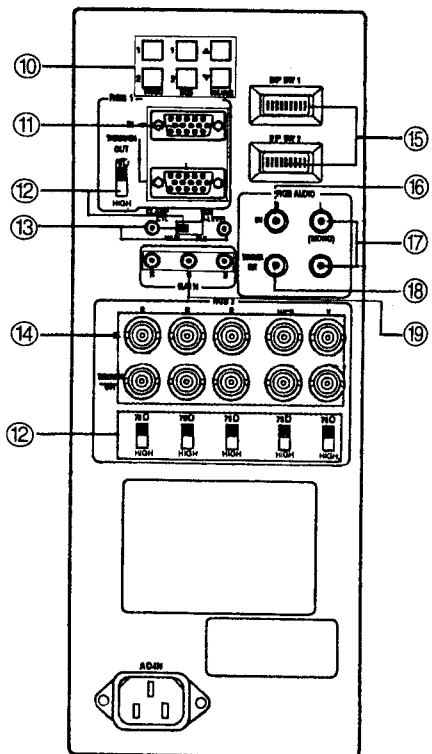
Front View

Rear View



Terminal Board (Left)

Terminal Board (Right)

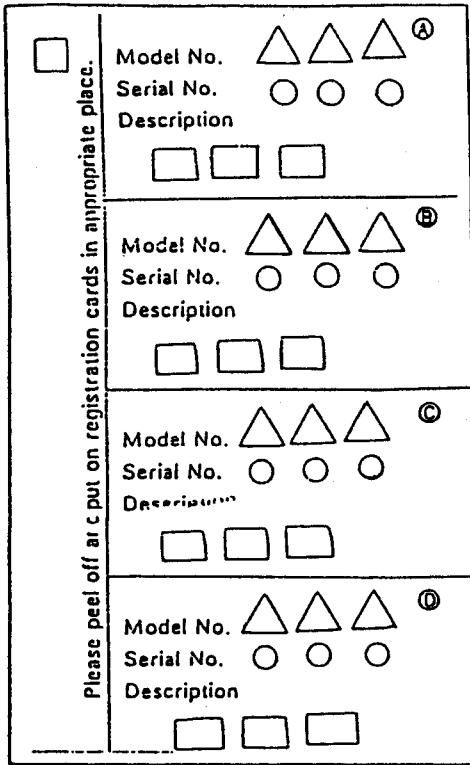


APPEARANCE PART LOCATION

NO.	PARTS NO.	DESCRIPTION	Q'TY
①	24DT4671	CABINET FRONT ASSY	1
②	24DT3972	CABINET BACK ASSY	1
③	24F18425	TERMINAL PANEL R	1
④	24FT5001	CASE (REMOTE)	1
⑤	24F18433	TERMINAL PANEL L	1
⑥	36801308	LED SEL1820D	4
⑦	36801023	LED SEL1320G	1
⑧	24GS9053	PUSH BUTTON (POWER)	6
⑨	24514792	COIL SPRING	1
⑩	65399033	PUSH SWITCH BUTTON	1
⑪	70056208	D-SUB SOCKET 15P	2
⑫	65199018	SWITCH,SLIDE	12
⑬	41011136	R,VARIABLE B10K	2
⑭	70599090	BNC RECEPTACLE	14
⑮	65121105	SWITCH,SLIDE	2
⑯	70051124	PIN JACK 1P	3
⑰	70051121	PIN JACK 1P	6
⑱	70051120	PIN JACK 1P	3
⑲	41011135	R,VARIABLE B20K	3
㉑	70057006	DIN SOCKET 4P (SW-2)	2
㉒	70057008	DIN SOCKET 4P	2
㉓	65199027	SWITCH,SLIDE	1
㉔	70505027	HEADPHONE JACK	2
㉕	70056406	D-SUB SOCKET 9P	2
㉖	71199021	TERMINAL 4P,SPEAKER	1

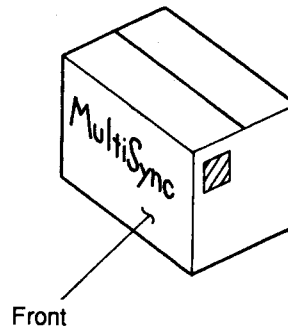
PACKAGING

C) Sealing Places

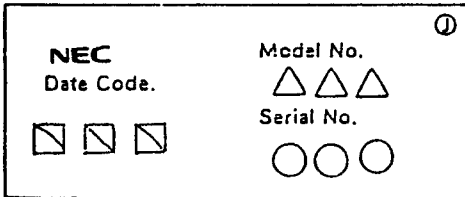


Cut the left section together with the cardboard paper, insert it in the polyethylene bag (DHHS) (24M0291□) together with the DHH card (24L2949[]), and put it at the specified point on the right top on the left side of the cardboard. In this case, sealing shall be made in such a position where the model No., Serial No., and description can be seen.

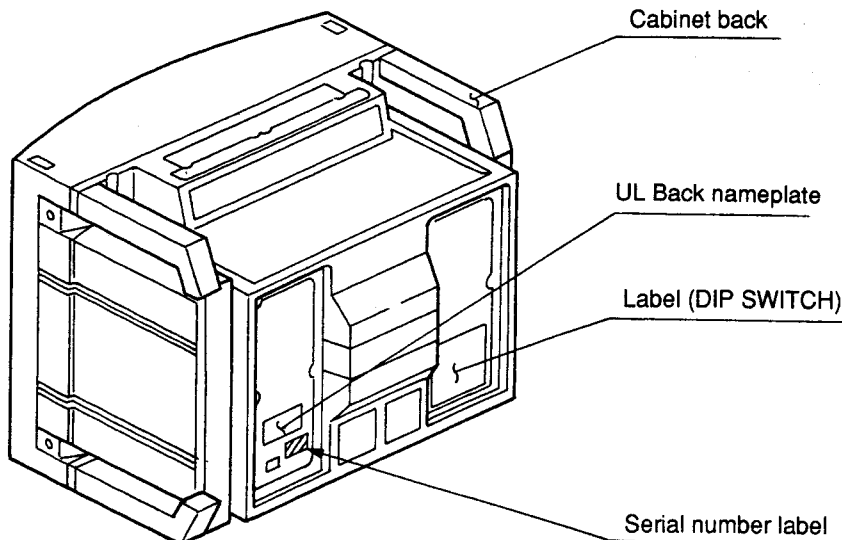
[Each dealer should apply the label shown at left upon the [] marked points (A), (B), and (C) of the DHHS card by removing the labels (A), (B), and (C).]



D) Application to Terminal Fitting Strip

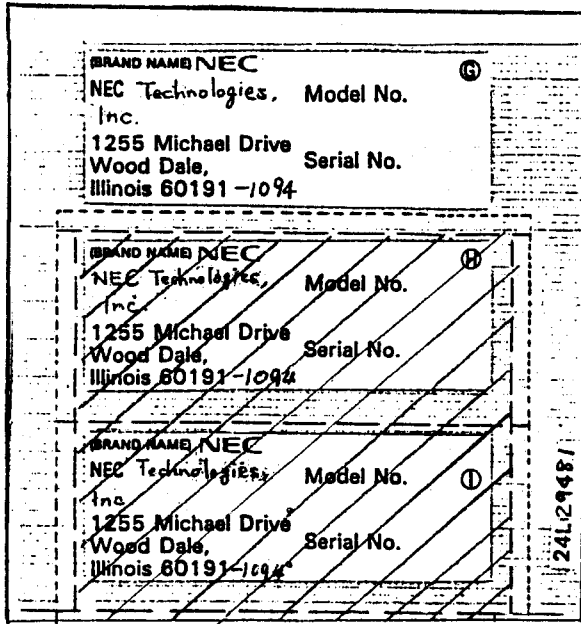


Remove the left shown at left from the cardboard and apply it to the lower left (the lower section of the IUL back nameplate) of the terminal fitting strip (R) of each set.

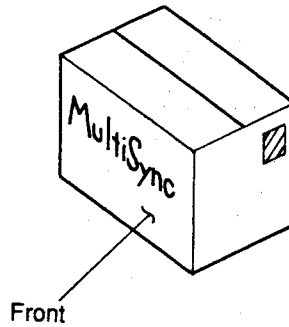


E) Application to the Cardboard Box

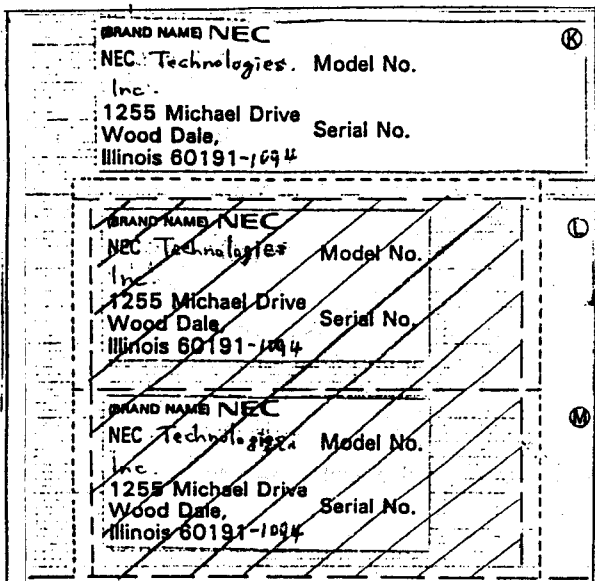
E-1) Right Side



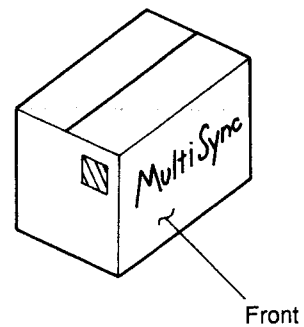
Remove the label shown at left from the cardboard and apply it to the left top on the left of the cardboard. (However, the cardback of the broken line portion shown at left must be applied by not removing it.)



E-2) Left Side



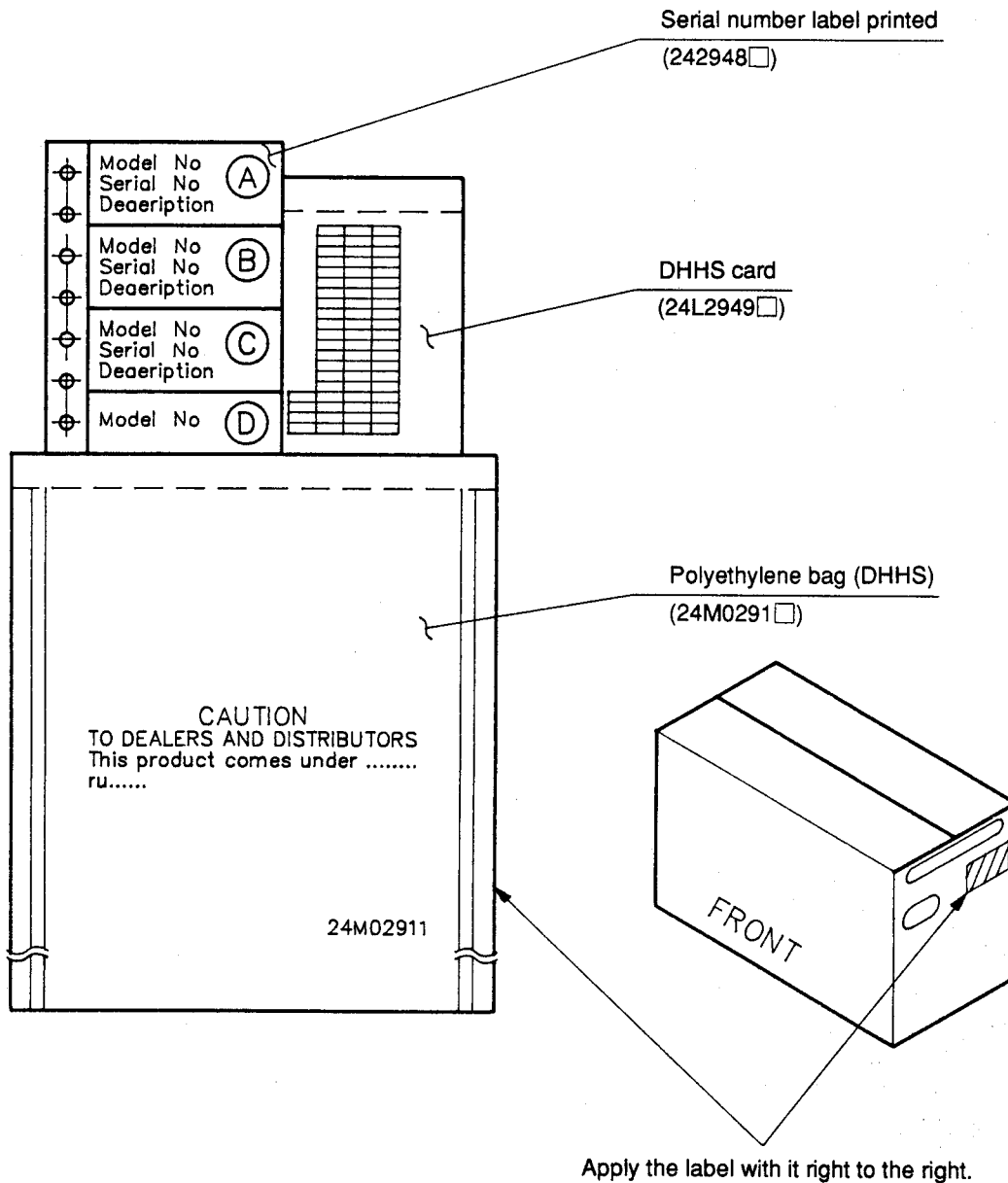
Remove the label shown at left from the cardboard and apply it to the right top on the left side of the cardboard. (But apply the label without removing the cardboard of the broken line shown at left.)



PACKAGING

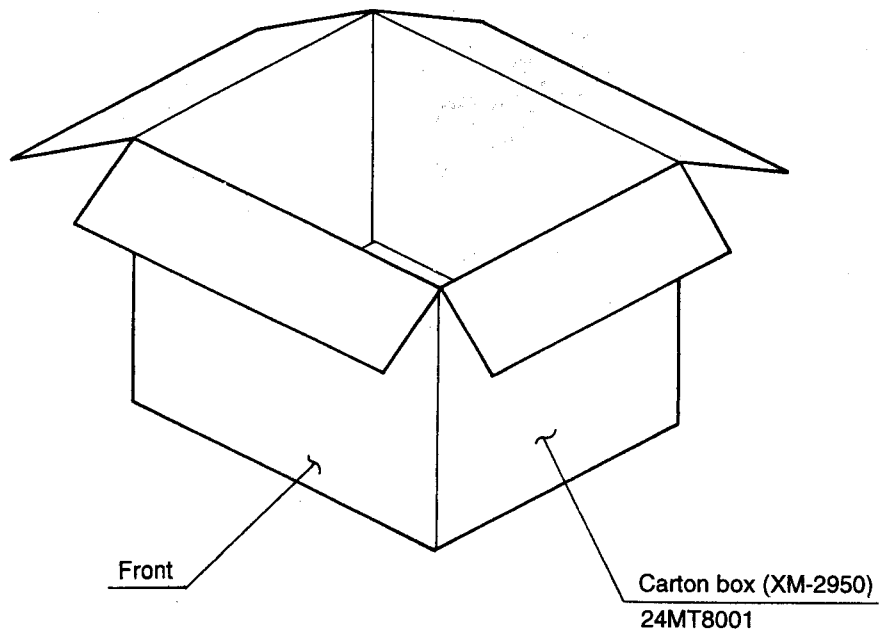
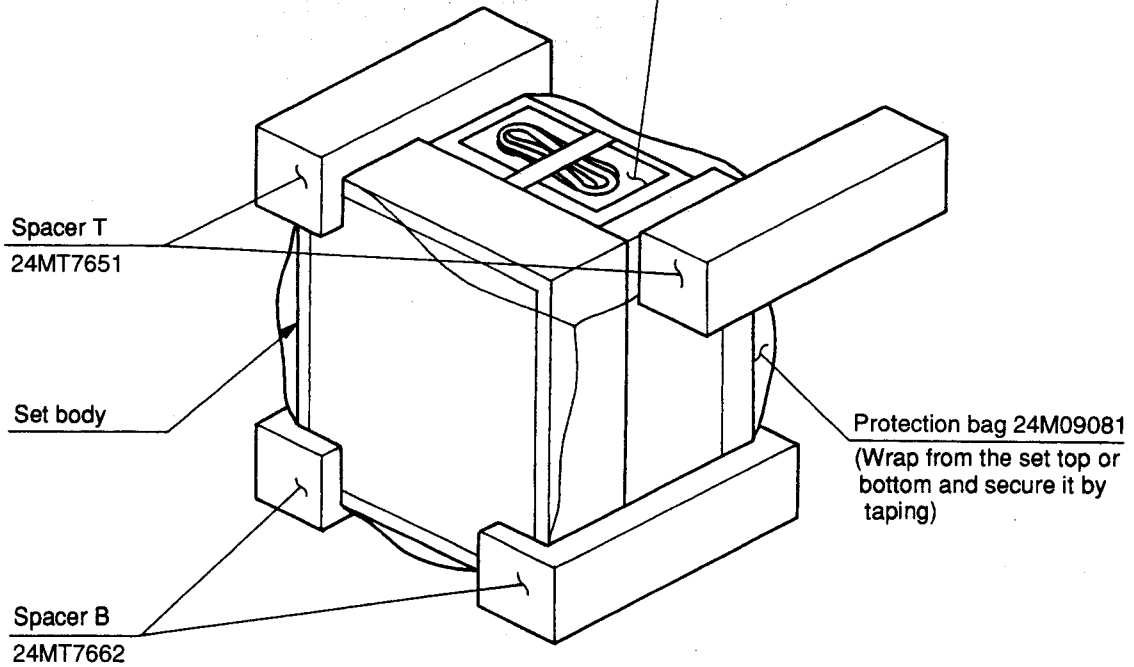
Disposal of Polyethylene Bag (DHHS) (24M0291[])

Insert the (A), (B), (C), and (D) sections (with the cardboard) of the DHHS card (24L2949[]) and the serial number label (24L2948[]) inside, fold the top end section of the polyethylene bag (DHHS), seal it, and remove the back cardboard. Then, apply the label to the right top on the left side of the cardboard with it laid to the left.



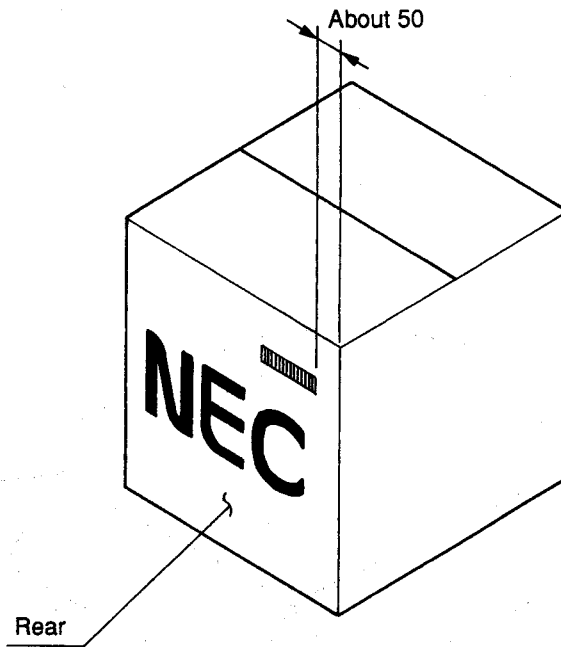
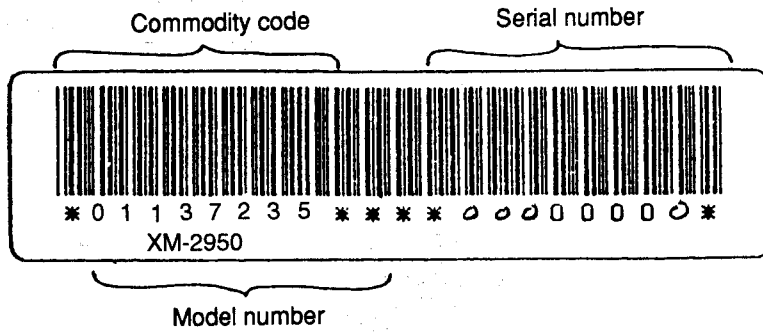
Service bag ass'y:

Bag Polyethylene	(24806961)
Battery SUM-3	(68043001)
Plug Cable (4M)	(73499229)
Registration Card	(78036581)
User's Manual	(78405881)
Remote Controller	(79642703)

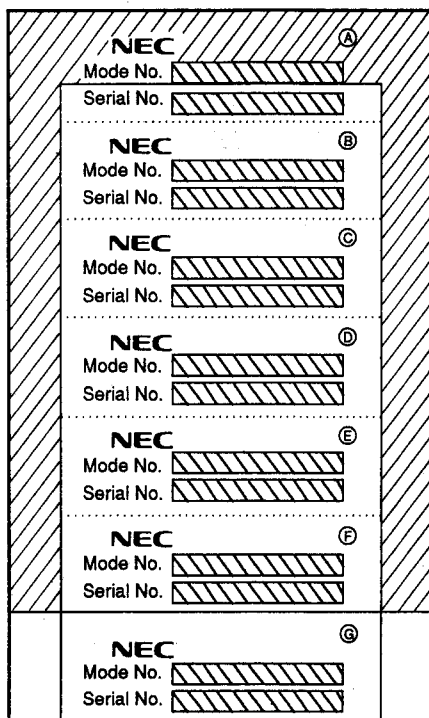



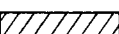
PACKAGING

Print as shown below on the bar code serial label (1676179) and apply it to the back of the cardboard.



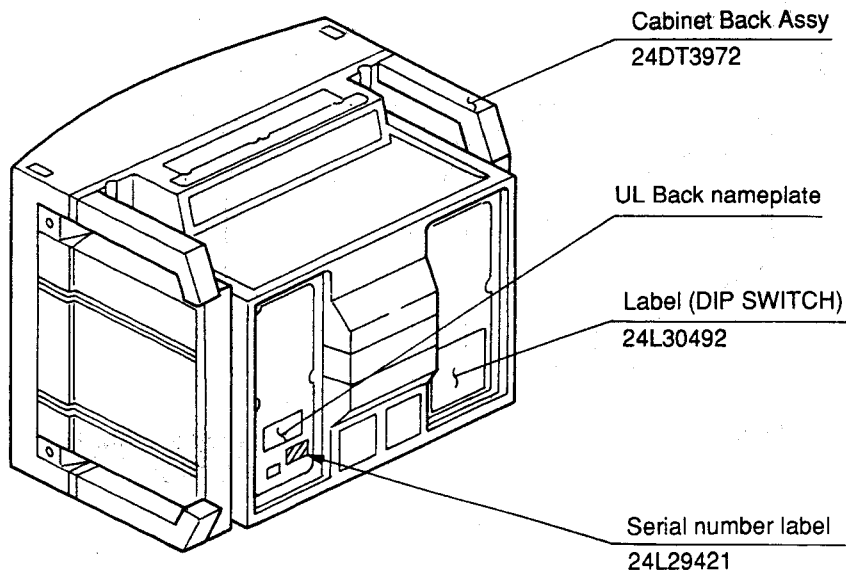
(2) XM-2950G



- ①  Print Model No. and Serial No. on a total of 7 labels, (A) to (G), as indicated by shaded parts.
- ②  Peel the stickers (shaded parts) off and stick them (A) to (F), to the cardboard box in the upper part of its left aside.

Serial No. Label
24L29421

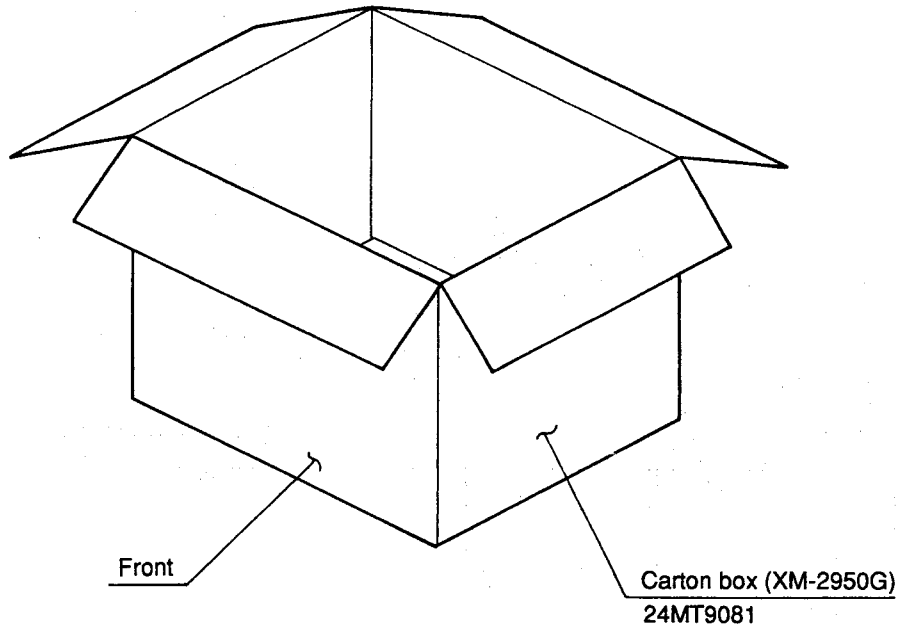
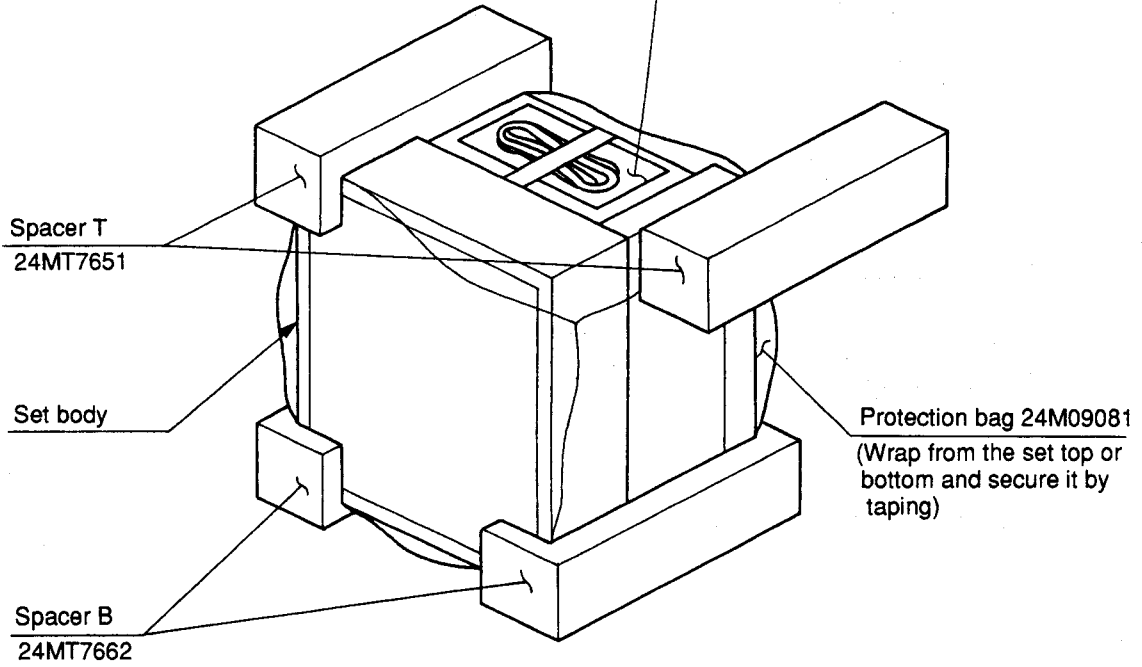
- ③ Peel label (G) off from the board and stick it to the terminal board R of the set in the lower right part of it .
(below the nameplate on the back).



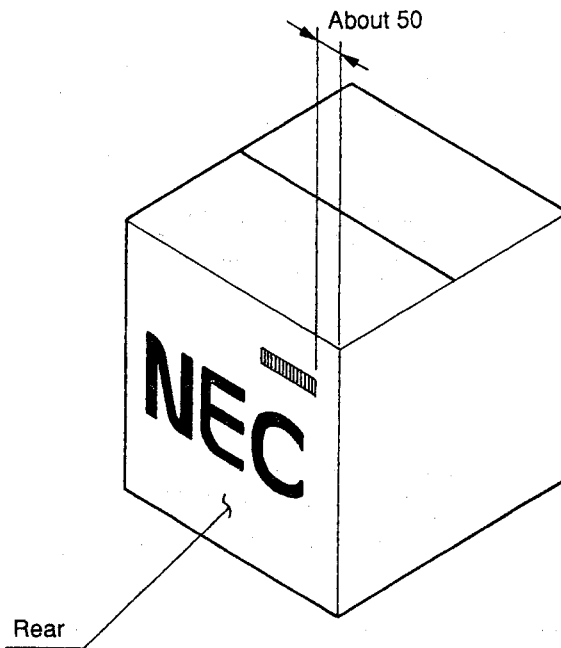
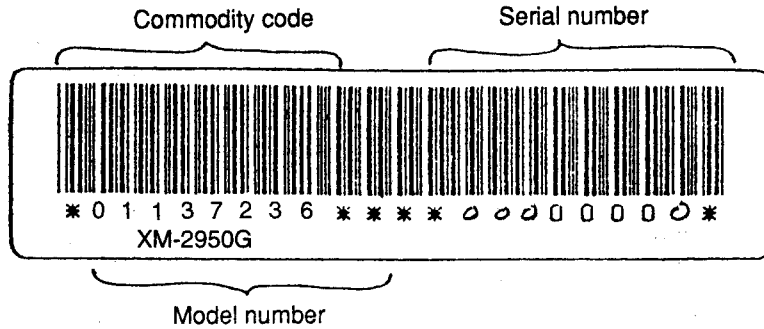
PACKAGING

Service bag ass'y:

Paper Bag	(24M14211)
Battery SUM-3	(68043001)
Plug Cable (4M)	(73499229)
X-RAY License	(78048501)
User's Manual	(78405891)
Remote Controller	(79642703)

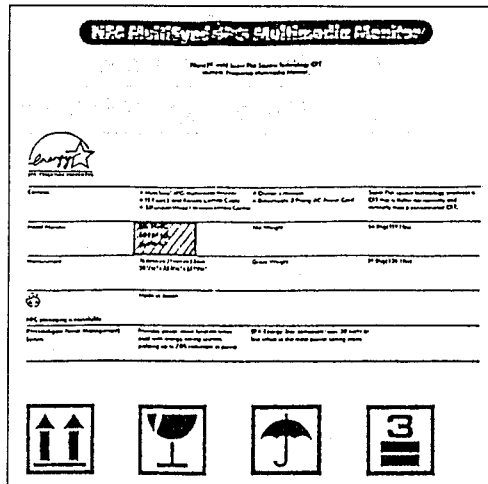


Print as shown below on the bar code serial label (1676179) and apply it to the back of the cardboard.



Enter "V" with a felt-tip pen in "□XM-2950G" of the "Model Number" at the two sides of the cardboard box.

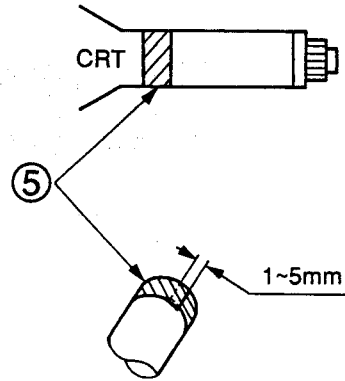
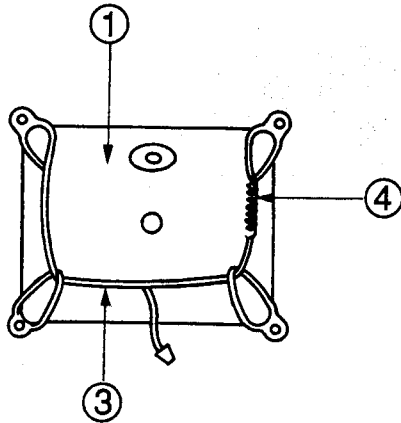
- XM-2950G
- XM-2950J



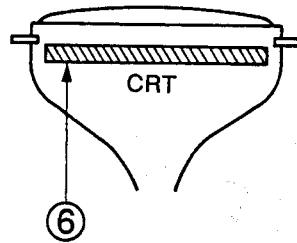
Side of the cardboard box

WIRING METHOD

Make assembly of CRT.



The mating seam of the tape to be wound shall be 1~5mm

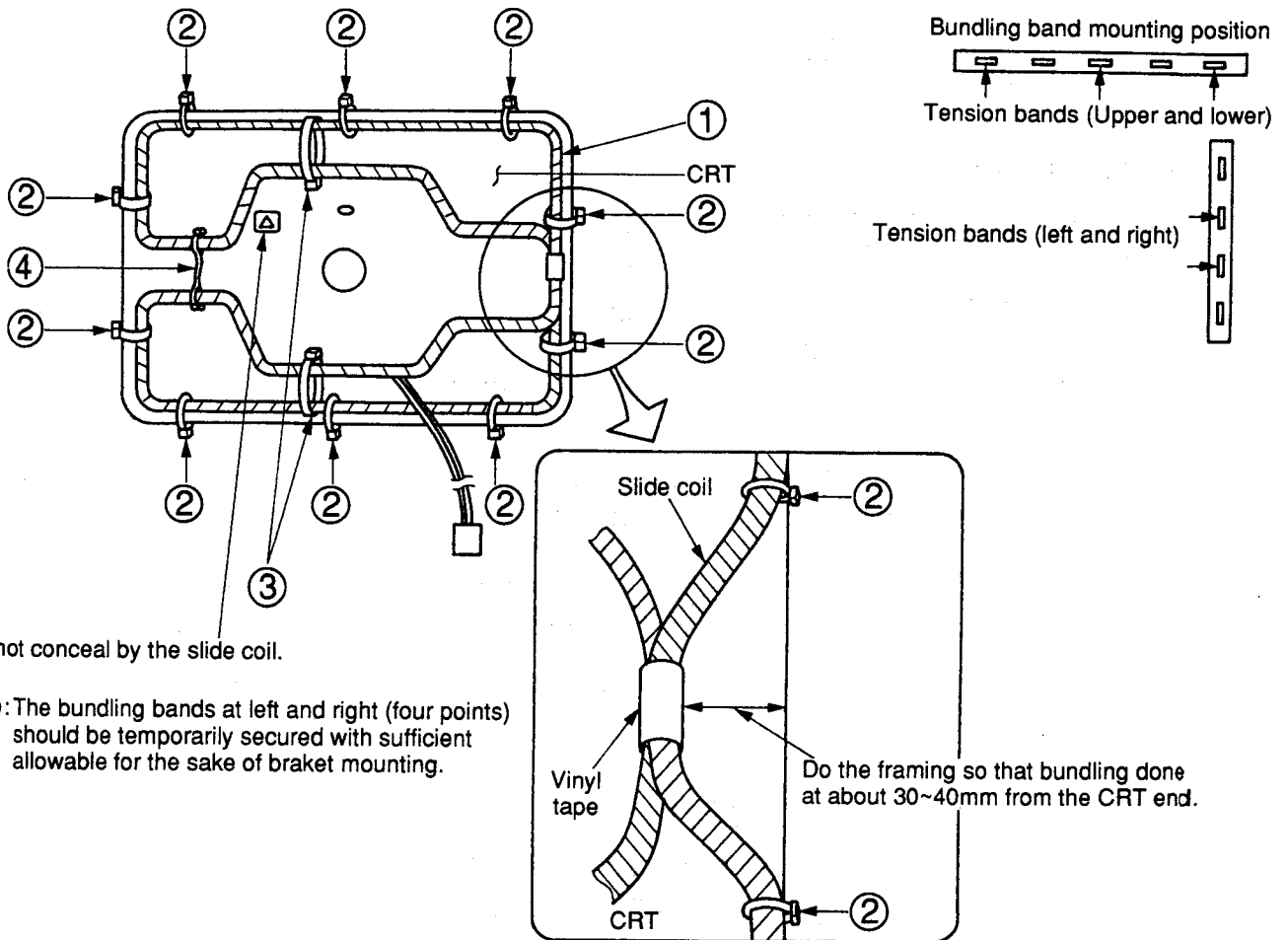


(Apply the filament tape so that the step difference between the tension band and the CRT is hidden.)

* Apply the tape at upper and lower points (2 points).

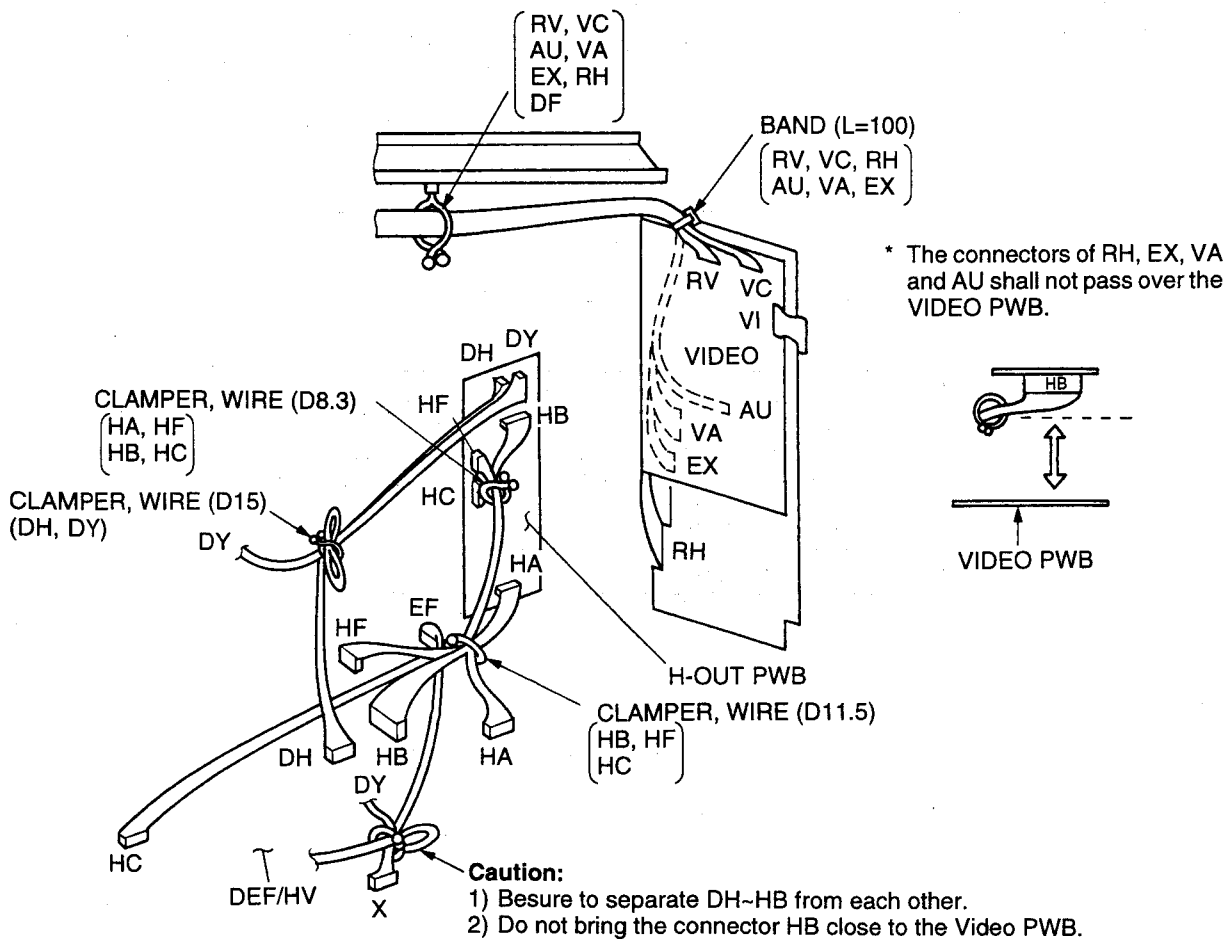
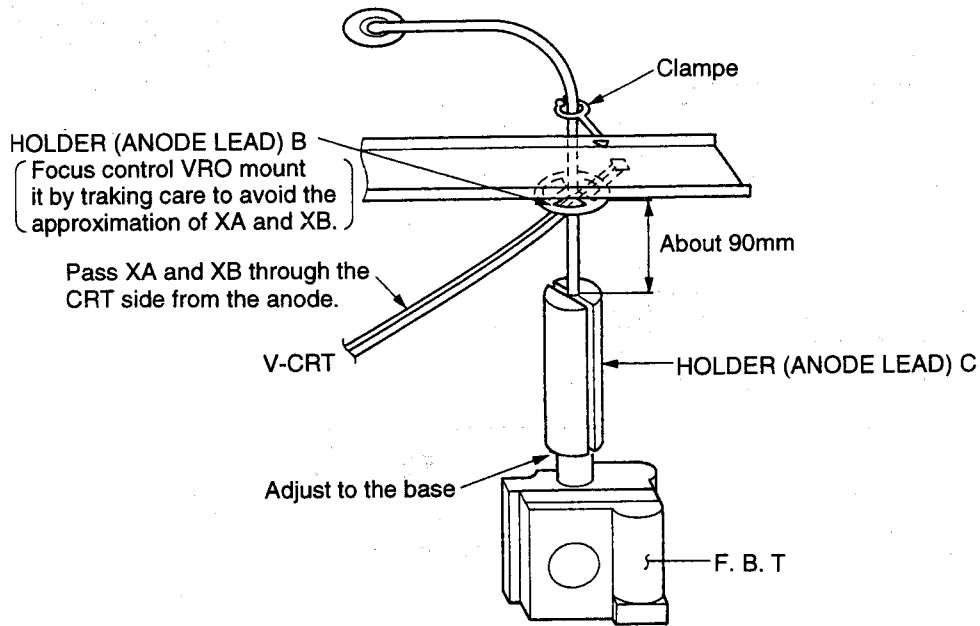
No.	Part Name
1	CRT-A68KZN696X (T)
2	Braiding wire SASSY
3	CRT ground SASSY
4	Coil spring
5	Scotch cotton tape #29 19x93mm
6	Filament tape 30x450mm

WIRING METHOD

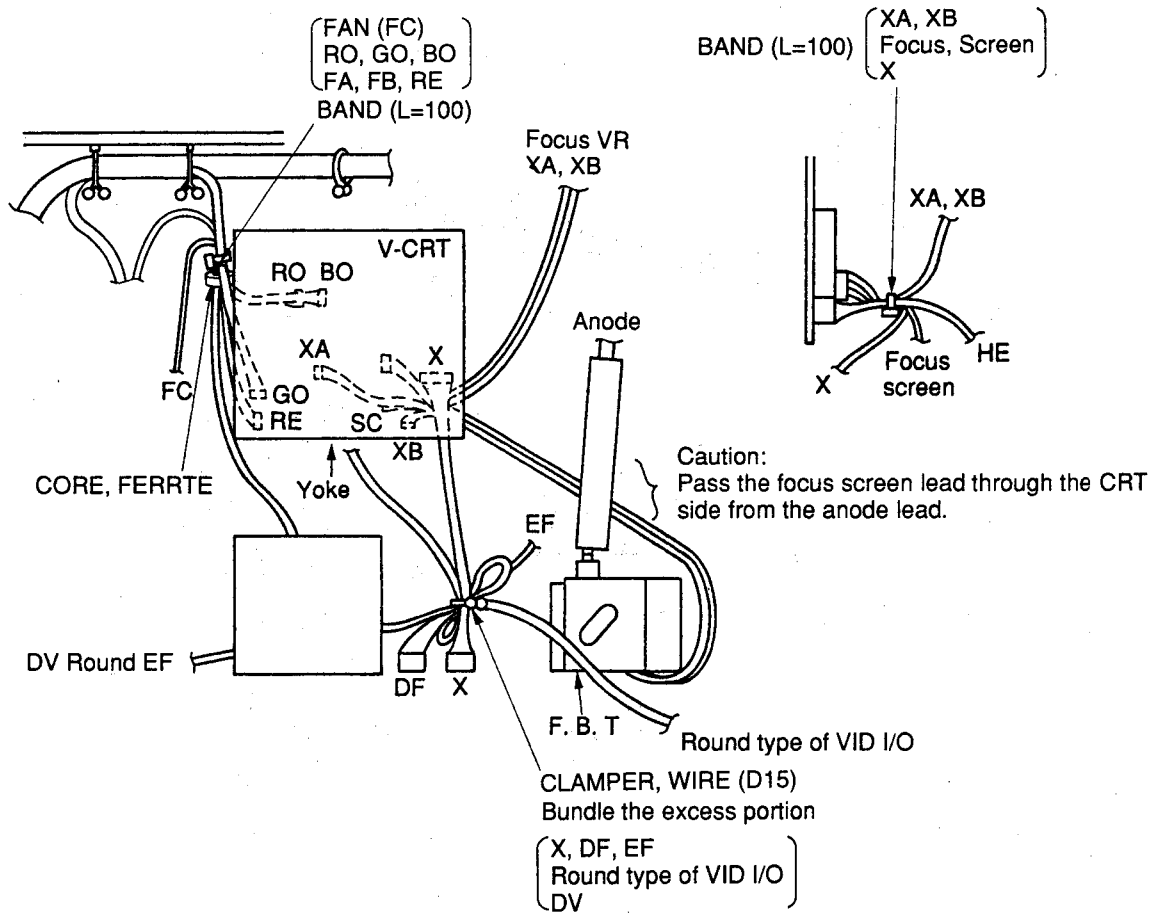


No.	Part Name
1	Slide coil (05H 40T 2P)
2	Bundling band (L=100)
3	Bundling band (203)
4	Lead clammer

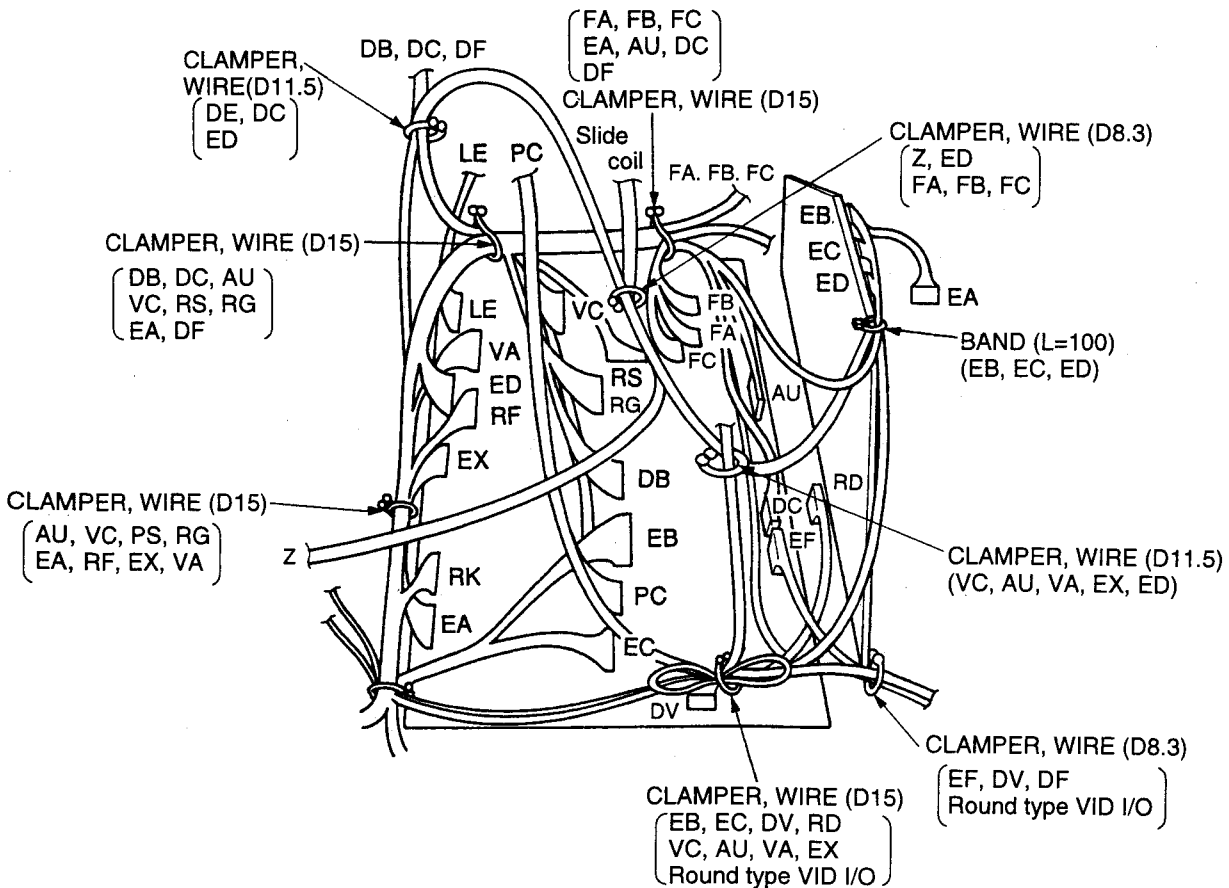
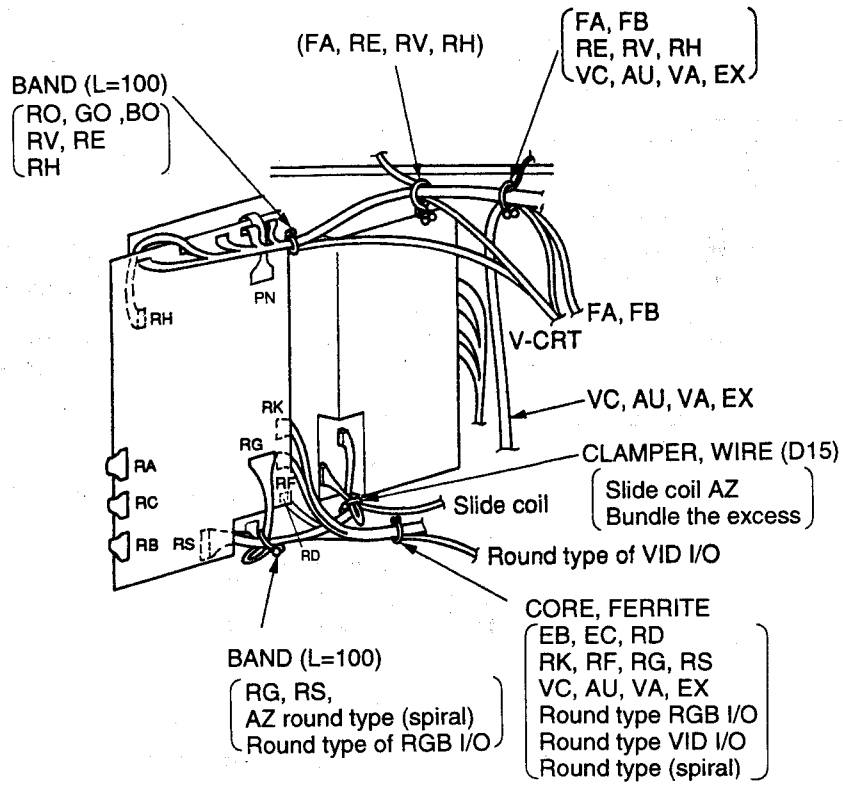
WIRING METHOD



WIRING METHOD



WIRING METHOD



REPLACEMENT PART LIST

Notes:

1. Parts orders must contain model name, parts number and description.
2. When you place an order for spare parts, please refer to the respective service manual and mention the right parts number on your P.O. Sheets.
3. Standard resistors, capacitors and coils which are normally available from local electronics suppliers are not stocked in our warehouse.
4. The components identified by a Δ mark or with the symbol Nos. shaded are critical for safety. Replace only with parts number specified.

XM-2950

SYMBOL	PARTS NO	DESCRIPTION
*** CRT & TUNER ***		
CRT	33029031	CRT-A68KZN696X(TG) TO
*** ICS ***		
IC1001	37058674	MOS UPD78014CW-062 (CPU)
IC1002	37074244	MOS ST24C04B1 (EEPROM)
IC1003	371E1514	IC PST529D-2(T) (VOLTAGE D
IC1004	371E1568	IC PST529G-2(T) (3.3V RES)
IC1005	37058114	MOS UPD6326C (D/A)
IC1006	37058477	MOS UPD6345C (DRIVER)
Δ IC2001	37011206	IC XRA10358 (OP-AMP)
Δ IC201	37005059	IC UPC7815H (REG)
IC301	37001086	IC TA8211AH (AMP)
IC302	37001075	IC UPC1406HA (DC-CONT)
IC4001	37011206	IC XRA10358 (OP-AMP)
IC4002	37056618	IC BA6110
IC4003	37011206	IC XRA10358 (OP-AMP)
IC4005	37011206	IC XRA10358 (OP-AMP)
IC4006	37011206	IC XRA10358 (OP-AMP)
IC4501	37011206	IC XRA10358 (OP-AMP)
IC5010	37058477	MOS UPD6345C (DRIVER)
IC5011	37011206	IC XRA10358 (OP-AMP)
IC5012	37011206	IC XRA10358 (OP-AMP)
IC5013	37056178	IC UPC1555C
IC5301	37056618	IC BA6110
IC5302	37011206	IC XRA10358 (OP-AMP)
IC5401	37101395	IC BA10324
IC5402	37056618	IC BA6110
IC5403	37101395	IC BA10324
IC5501	37056618	IC BA6110
IC5502	37101395	IC BA10324
IC5503	37101395	IC BA10324
IC5504	37056618	IC BA6110
IC5505	37101395	IC BA10324
IC5506	37101395	IC BA10324
IC5507	37056877	IC NJM4200D (MULTIPLIER)
IC5508	37056877	IC NJM4200D (MULTIPLIER)
IC5509	37056618	IC BA6110
IC5510	37101395	IC BA10324

SYMBOL	PARTS NO	DESCRIPTION
Δ IC631	79T06442	IC S1-3240C
Δ IC632	79T06422	IC PQ30RV1
Δ IC633	79T06421	IC PQ15RF2
Δ IC634	79T05927	IC PQ30RV11
Δ IC635	79T06419	IC NJM79M12FA
Δ IC636	79T04836	IC NJM78M12FA
Δ IC637	79T04837	IC NJM78M06FA
Δ IC661	79T05925	IC M51977P
Δ IC681	79T06354	IC NJM431L
IC7002	37011186	IC LVA522S (VIDEO-SW)
Δ IC7003	37101501	IC UPC78M09H
IC7004	37011293	IC MM1112XS (V-SW)
IC7005	37011186	IC LVA522S (VIDEO-SW)
IC701	37011185	IC LVA521S (VIDEO-SW)
IC702	37011185	IC LVA521S (VIDEO-SW)
IC703	37011185	IC LVA521S (VIDEO-SW)
IC7101	37011122	IC M51386L (COMB FILTER)
IC7201	37011228	IC HA11465A (V-AMP)
IC7301	37053122	MOS UPD74HC123AC
IC7401	37003033	IC AN5625 (PAL)
Δ IC7402	37005011	IC UPC78M12H (REG)
IC750	37053002	MOS UPD4052BC (MPX)
IC801	37056867	IC M52036SP
IC802	37051036	MOS UPD4066BC
IC803	37011018	IC UPC311C (COMP)
IC804	37011262	IC XRA10393 (COMP)
IC805	37011018	IC UPC311C (COMP)
IC8101	37053114	MOS UPD74HC221AC (V1B)
IC8201	37051378	MOS UPD4053BC (MPX)
IC8301	37056245	IC M51387P
Δ IC8601	37005153	IC UPC2412HF (REG)
Δ IC8602	37011025	IC UPC7824H (REG)
IC8701	37009016	IC UPC1377C (HORI)
IC8702	37151249	MOS UPD4538BC (NEC-B)
IC8802	37053114	MOS UPD74HC221AC (V1B)
IC890	37074324	MOS 24LC21-1/P (E-EPROM)
IC9001	37056494	IC LA7853
IC9002	37051179	IC SN74LS123N (MONO MLT)
IC9003	37011018	IC UPC311C (COMP)

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
IC9004	37101395	IC BA10324
IC9005	37011206	IC XRA10358 (OP-AMP)
IC9006	37056975	IC M52356P
IC9007	37011024	IC UPC3403C (OP-AMP)
IC9008	37011024	IC UPC3403C (OP-AMP)
IC9009	37011206	IC XRA10358 (OP-AMP)
IC9014	37011024	IC UPC3403C (OP-AMP)
IC9015	37011262	IC XRA10393 (COMP)

*** TRANSISTORS ***

Q1001	350K5718	TR 2SA933S-T R
Q1002	350E3218	TR 2SC1740S-T R
Q1003	350K5718	TR 2SA933S-T R
Q1004	351G0601	TR DTC114ES-T
Q1005	351G0602	TR DTC144ES-T
Q1006	350H5018	TR 2SC3811-TA R
Q1007	351G0602	TR DTC144ES-T
Q1008	350E3218	TR 2SC1740S-T R
Q1009	350E3218	TR 2SC1740S-T R
△Q2001	350E3218	TR 2SC1740S-T R
△Q2002	350K5718	TR 2SA933S-T R
△Q2003	351G0561	TR DTA144ES-T
Q2004	351G0602	TR DTC144ES-T
Q301	350E3218	TR 2SC1740S-T R
Q303	350K5718	TR 2SA933S-T R
Q4001	350K5718	TR 2SA933S-T R
Q4002	350K5718	TR 2SA933S-T R
Q4003	350H5812	TR 2SC3615-T L
Q4004	351G0601	TR DTC114ES-T
Q4005	350K5718	TR 2SA933S-T R
Q4006	351G0601	TR DTC114ES-T
Q4501	35094803	TR 2SC2336B
Q4502	350H4418	TR 2SC1473-TA R
Q4503	350E3218	TR 2SC1740S-T R
Q4504	35091112	TR 2SC2371 L
Q4505	35025212	TR 2SB546 L
Q4506	35031817	TR 2SB940A Q
Q4507	35063412	TR 2SD401A L
Q4508	35071917	TR 2SD1264A Q

SYMBOL	PARTS NO	DESCRIPTION
Q4509	35025212	TR 2SB546 L
Q4510	35063412	TR 2SD401A L
Q4511	351G0601	TR DTC114ES-T
Q4512	350E3218	TR 2SC1740S-T R
Q4513	350H4418	TR 2SC1473-TA R
Q5010	351G0561	TR DTA144ES-T
Q5011	351G0602	TR DTC144ES-T
Q5015	350A1500	TR 2SA1767-TA
Q5016	35122500	TR 2SK758
Q5017	350E3218	TR 2SC1740S-T R
Q5018	350K5718	TR 2SA933S-T R
Q5019	350H5018	TR 2SC3811-TA R
Q5020	35050917	TR 2SC1384 Q
Q5021	35011950	TR 2SA684
Q5024	350E3218	TR 2SC1740S-T R
Q5025	350K5718	TR 2SA933S-T R
Q5026	35122500	TR 2SK758
Q5027	35025212	TR 2SB546 L
Q5029	35122500	TR 2SK758
Q5030	350E3212	TR 2SC2002-T L
Q5031	350K4412	TR 2SA952 L,AT
Q5032	350E3218	TR 2SC1740S-T R
Q5033	350E3218	TR 2SC1740S-T R
Q5034	35063412	TR 2SD401A L
Q5035	35063412	TR 2SD401A L
Q5036	35127580	TR 2SK1642
Q5037	35127580	TR 2SK1642
Q5038	35127580	TR 2SK1642
Q5039	35127580	TR 2SK1642
Q5040	35127580	TR 2SK1642
Q5041	35094803	TR 2SC2336B
Q5042	350H4418	TR 2SC1473-TA R
Q5043	350K5718	TR 2SA933S-T R
Q5044	350K5718	TR 2SA933S-T R
Q5046	350H4418	TR 2SC1473-TA R
Q5047	350E3218	TR 2SC1740S-T R
Q5048	350K5718	TR 2SA933S-T R
Q5050	350E3218	TR 2SC1740S-T R
Q5051	351G0561	TR DTA144ES-T

SYMBOL	PARTS NO	DESCRIPTION
Q5052	350K5718	TR 2SA933S-T R
Q5055	350H5018	TR 2SC3811-TA R
Q5056	351G0601	TR DTC114ES-T
Q5057	35127580	TR 2SK1642
Q5301	35095070	TR 2SC4710
Q5302	35095070	TR 2SC4710
Q5303	350K5718	TR 2SA933S-T R
Q5304	350K5718	TR 2SA933S-T R
Q5305	350E3218	TR 2SC1740S-T R
Q5308	350K5718	TR 2SA933S-T R
Q5401	350E3218	TR 2SC1740S-T R
Q5402	351G0561	TR DTA144ES-T
Q5403	35063412	TR 2SD401A L
Q5404	35063412	TR 2SD401A L
Q5405	350K5718	TR 2SA933S-T R
Q5406	351G0561	TR DTA144ES-T
Q5407	351G0602	TR DTC144ES-T
Q5408	351G0561	TR DTA144ES-T
Q5409	351G0561	TR DTA144ES-T
Q5410	351G0561	TR DTA144ES-T
Q5411	351G0561	TR DTA144ES-T
Q5412	351G0602	TR DTC144ES-T
Q5413	351G0561	TR DTA144ES-T
△Q5451	35122800	TR 2SK1271
△Q5452	35122800	TR 2SK1271
Q5453	35127570	TR 2SK2223-01
△Q5454	35094300	TR 2SC3998
Q5501	351G0602	TR DTC144ES-T
Q5502	350K5718	TR 2SA933S-T R
Q5503	350K5718	TR 2SA933S-T R
Q5508	350K5718	TR 2SA933S-T R
Q5509	350E3218	TR 2SC1740S-T R
Q5510	350K5718	TR 2SA933S-T R
△Q601	79T06417	TR 1RFPE40
△Q602	79T06417	TR 1RFPE40
△Q603	79T06382	TR 2SC3751
Q631	79T06251	TR 2SB810
Q671	79T06381	TR 2SC3330
Q681	79T05931	TR DTC114ES

SYMBOL	PARTS NO	DESCRIPTION
Q682	79T06309	TR 2SC2785
Q683	79T05934	TR DTA114ES
Q684	79T06251	TR 2SB810
Q7001	350E3218	TR 2SC1740S-T R
Q7002	350J3016	TR 2SC2926S-T P
Q7003	350E3218	TR 2SC1740S-T R
Q701	350E3218	TR 2SC1740S-T R
Q702	351G0601	TR DTC114ES-T
Q704	350E3218	TR 2SC1740S-T R
Q705	350E3218	TR 2SC1740S-T R
Q706	350E3218	TR 2SC1740S-T R
Q707	350E3218	TR 2SC1740S-T R
Q710	350E3218	TR 2SC1740S-T R
Q7101	350E3218	TR 2SC1740S-T R
Q7102	350E3218	TR 2SC1740S-T R
Q7103	350E3218	TR 2SC1740S-T R
Q7104	350J3016	TR 2SC2926S-T P
Q7201	350E3218	TR 2SC1740S-T R
Q7202	350K5718	TR 2SA933S-T R
Q7203	350E3218	TR 2SC1740S-T R
Q7204	350E3218	TR 2SC1740S-T R
Q7205	350E3218	TR 2SC1740S-T R
Q7206	350E3218	TR 2SC1740S-T R
Q7207	351G0601	TR DTC114ES-T
Q7208	350K5718	TR 2SA933S-T R
Q7209	350E3218	TR 2SC1740S-T R
Q7210	350E3218	TR 2SC1740S-T R
Q7401	350E3218	TR 2SC1740S-T R
Q7402	350E3218	TR 2SC1740S-T R
Q7403	350K5718	TR 2SA933S-T R
Q7404	350E3218	TR 2SC1740S-T R
Q7405	350E3218	TR 2SC1740S-T R
Q7406	350K5718	TR 2SA933S-T R
Q7407	350E3218	TR 2SC1740S-T R
Q7408	350E3218	TR 2SC1740S-T R
Q7409	350K5718	TR 2SA933S-T R
Q7410	350E3218	TR 2SC1740S-T R
Q751	350E3218	TR 2SC1740S-T R
Q752	350E3218	TR 2SC1740S-T R

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
Q8001	350E3218	TR 2SC1740S-T R
Q8002	350E3218	TR 2SC1740S-T R
Q8003	350E3218	TR 2SC1740S-T R
Q8004	350E3218	TR 2SC1740S-T R
Q8005	350E3218	TR 2SC1740S-T R
Q8006	350E3218	TR 2SC1740S-T R
Q8007	350E3218	TR 2SC1740S-T R
Q8008	350E3218	TR 2SC1740S-T R
Q8009	350E3218	TR 2SC1740S-T R
Q8010	351G0602	TR DTC144ES-T
Q8011	351G0561	TR DTA144ES-T
Q8012	351G0602	TR DTC144ES-T
Q8013	351G0561	TR DTA144ES-T
Q8014	351G0602	TR DTC144ES-T
Q8015	350E3218	TR 2SC1740S-T R
Q8016	350E3218	TR 2SC1740S-T R
Q802	351G0602	TR DTC144ES-T
Q803	351G0602	TR DTC144ES-T
Q804	351G0602	TR DTC144ES-T
Q805	351G0602	TR DTC144ES-T
Q810	351G0561	TR DTA144ES-T
Q8101	350E3218	TR 2SC1740S-T R
Q8102	350E3218	TR 2SC1740S-T R
Q8103	351G0602	TR DTC144ES-T
Q811	351G0602	TR DTC144ES-T
Q8201	351G0602	TR DTC144ES-T
Q8301	351G0601	TR DTC114ES-T
Q8401	350K5718	TR 2SA933S-T R
Q8402	350K5718	TR 2SA933S-T R
Q8403	350K5718	TR 2SA933S-T R
Q8404	350H5018	TR, 2SC3811-TA R
Q8405	350H5018	TR, 2SC3811-TA R
Q8406	350H5018	TR, 2SC3811-TA R
Q8407	350E3218	TR 2SC1740S-T R
Q8408	350E3218	TR 2SC1740S-T R
Q8409	350E3218	TR 2SC1740S-T R
Q8410	35089305	TR 2SC3504 E
Q8411	35089305	TR 2SC3504 E
Q8412	35089305	TR 2SC3504 E
Q8413	350E3218	TR 2SC1740S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q8414	350E3218	TR 2SC1740S-T R
Q8415	350E3218	TR 2SC1740S-T R
Q8416	35089305	TR 2SC3504 E
Q8417	35089305	TR 2SC3504 E
Q8418	35089305	TR 2SC3504 E
Q8419	35010505	TR 2SA1433 E
Q8420	35010505	TR 2SA1433 E
Q8421	35010505	TR 2SA1433 E
Q8422	351G0561	TR DTA144ES-T
Q8501	351G0602	TR DTC144ES-T
Q8701	351G0602	TR DTC144ES-T
Q8702	351G0602	TR DTC144ES-T
Q8703	351G0602	TR DTC144ES-T
Q8704	350E3218	TR 2SC1740S-T R
Q8705	350E3218	TR 2SC1740S-T R
Q9001	35011911	TR 2SA1349 GR
Q9002	35094991	TR 2SC3381 GR
Q9003	35094991	TR 2SC3381 GR
Q9004	350K5718	TR 2SA933S-T R
Q9005	350E3218	TR 2SC1740S-T R
Q9006	350K5718	TR 2SA933S-T R
Q9007	351B7510	TR 2SK982(TPE2)
Q9008	350K5718	TR 2SA933S-T R
Q9009	350H5018	TR, 2SC3811-TA R
Q901	35084401	TR 2SC3063-RL
Q9012	35065417	TR, 2SD882 Q
Q9013	35065417	TR, 2SD882 Q
Q9014	35065417	TR, 2SD882 Q
Q902	35084401	TR 2SC3063-RL
Q903	35084401	TR 2SC3063-RL
Q904	35007205	TR 2SA1381 E
Q9049	351G0601	TR DTC114ES-T
Q905	35007205	TR 2SA1381 E
Q906	35007205	TR 2SA1381 E
Q9060	351G0601	TR DTC114ES-T
Q9061	350E3218	TR 2SC1740S-T R
Q9062	351G0601	TR DTC114ES-T
Q9063	350K5718	TR 2SA933S-T R
Q9064	350K5718	TR 2SA933S-T R
Q9065	350E3218	TR 2SC1740S-T R

SYMBOL	PARTS NO	DESCRIPTION
Q9066	350K5718	TR 2SA933S-T R
Q9067	351G0601	TR DTC114ES-T
Q9068	350E3218	TR 2SC1740S-T R
Q9069	351G0600	TR DTA114ES-T
Q907	35092200	TR 2SC4158
Q9070	351G0602	TR DTC144ES-T
Q908	35092200	TR 2SC4158
Q909	35092200	TR 2SC4158
Q910	35089505	TR 2SC3950 E
Q911	35089505	TR 2SC3950 E
Q912	35089505	TR 2SC3950 E
Q916	350E3218	TR 2SC1740S-T R
Q917	350E3218	TR 2SC1740S-T R
Q918	350E3218	TR 2SC1740S-T R

*** DIODES ***

CR681	79T05944	DIODE DRA01B
D1001	360K1048	DIODE 1SS253
D1002	360K1048	DIODE 1SS253
D1003	360K1048	DIODE 1SS253
D1004	360K1048	DIODE 1SS253
D1005	360K1048	DIODE 1SS253
D1006	361K7522	DIODE ERA15-02 V1
D1007	361K7522	DIODE ERA15-02 V1
D1008	360K1048	DIODE 1SS253
D1009	360K1048	DIODE 1SS253
D101	36801023	LED SEL1320G
D1010	360K1048	DIODE 1SS253
D1011	360K1048	DIODE 1SS253
D1012	360K1048	DIODE 1SS253
D1013	360K1048	DIODE 1SS253
D1014	360K1048	DIODE 1SS253
D1015	360K1048	DIODE 1SS253
D1016	360K1048	DIODE 1SS253
D1017	360K1048	DIODE 1SS253
D1018	360K1048	DIODE 1SS253
D1019	360K1048	DIODE 1SS253
D102	36801308	LED SEL1820D
D103	36801308	LED SEL1820D
D104	36801308	LED SEL1820D

SYMBOL	PARTS NO	DESCRIPTION
D105	36801308	LED SEL1820D
ΔD2001	361K7562	DIODE EGP10G G23
ΔD2002	360K1048	DIODE 1SS253
ΔD2003	360K1048	DIODE 1SS253
D2004	360K1048	DIODE 1SS253
D202	360K1048	DIODE 1SS253
D203	360K1048	DIODE 1SS253
D204	360K1048	DIODE 1SS253
D301	360K1048	DIODE 1SS253
D302	360K1048	DIODE 1SS253
D303	360K1048	DIODE 1SS253
D304	360K1048	DIODE 1SS253
D305	360K1048	DIODE 1SS253
D4001	360K1048	DIODE 1SS253
D4501	360K1048	DIODE 1SS253
D4502	361K7523	DIODE ERA15-04
D4503	360K1048	DIODE 1SS253
D4504	360K1048	DIODE 1SS253
D4505	360K1048	DIODE 1SS253
D4506	360K1048	DIODE 1SS253
D4507	360K1048	DIODE 1SS253
D4508	360K1048	DIODE 1SS253
D4509	360K1048	DIODE 1SS253
D4510	36001048	DIODE 1SS253
D5004	36107638	DIODE EGP30G
D5005	360K1048	DIODE 1SS253
D5006	360K1048	DIODE 1SS253
ΔD5009	361K7259	DIODE CGJ-1
ΔD5009B	361K7259	DIODE CGJ-1
D5010	36107638	DIODE EGP30G
D5011	360K1048	DIODE 1SS253
D5012	360K1048	DIODE 1SS253
D5013	369K2136	DIODE RGP10G.AT
D5014	369K2136	DIODE RGP10G.AT
D5015	36107293	DIODE RK14
D5015B	36107293	DIODE RK14
D5016	36107293	DIODE RK14
D5019	360K1048	DIODE 1SS253
D5020	360K1048	DIODE 1SS253
D5028	360K1032	DIODE 1SS82-TA
D5029	360K1048	DIODE 1SS253

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
D5030	361K7522	DIODE ERA15-02 V1
D5031	361K7505	DIODE ERB44-06V1
D5032	360K1048	DIODE 1SS253
D5033	360K1048	DIODE 1SS253
D5034	360K1048	DIODE 1SS253
D5035	360K1048	DIODE 1SS253
D5039	360K1048	DIODE 1SS253
D5040	360K1048	DIODE 1SS253
D5041	360K1048	DIODE 1SS253
D5042	360K1048	DIODE 1SS253
D5043	360K1048	DIODE 1SS253
D5044	360K1048	DIODE 1SS253
D5047	360K1048	DIODE 1SS253
D5048	360K1048	DIODE 1SS253
D5049	360K1048	DIODE 1SS253
△D5052	36107516	DIODE RPIH
D5055	360K1048	DIODE 1SS253
D5301	360K1048	DIODE 1SS253
D5302	360K1048	DIODE 1SS253
D5303	360K1048	DIODE 1SS253
D5304	360K1048	DIODE 1SS253
D5305	360K1037	DIODE 1SS83
D5401	360K1048	DIODE 1SS253
D5402	360K1048	DIODE 1SS253
D5403	360K1048	DIODE 1SS253
D5404	360K1048	DIODE 1SS253
D5405	360K1048	DIODE 1SS253
D5406	360K1048	DIODE 1SS253
D5407	360K1048	DIODE 1SS253
D5408	360K1048	DIODE 1SS253
△D5409	36107516	DIODE RPIH
△D5451	36107515	DIODE CTU-G3DR
D5452	360K1048	DIODE 1SS253
△D5460	361K7562	DIODE EGP10G G23
D5509	360K1048	DIODE 1SS253
D5510	360K1048	DIODE 1SS253
D5511	360K1048	DIODE 1SS253
D5512	360K1048	DIODE 1SS253
D5514	360K1048	DIODE 1SS253

SYMBOL	PARTS NO	DESCRIPTION
D5515	360K1048	DIODE 1SS253
D601	79T06423	DIODE RBV606
△D602	79T06409	DIODE EG01C
D603	79T06409	DIODE EG01C
D604	79T06400	DIODE AG01Z
D605	79T06409	DIODE EG01C
D606	79T06416	DIODE GMB01
D607	79T06416	DIODE GMB01
△D631	79T06413	DIODE ESAC39M-06ES
△D632	79T06413	DIODE ESAC39M-06ES
△D633	79T04994	DIODE ESAB92M-03
△D634	79T04994	DIODE ESAB92M-03
△D635	79T05948	DIODE ESAB92M-02
△D636	79T05948	DIODE ESAB92M-02
△D637	79T06412	DIODE ESAB82M-006
△D638	79T05939	DIODE ERA91-02
△D639	79T05939	DIODE ERA91-02
△D640	79T06411	DIODE ERA83-006
D641	79T06416	DIODE GMB01
D642	79T05939	DIODE ERA91-02
△D643	79T06416	DIODE GMB01
△D644	79T06416	DIODE GMB01
D671	79T06416	DIODE GMB01
D672	79T06416	DIODE GMB01
D681	79T06416	DIODE GMB01
D701	360K1048	DIODE 1SS253
D702	360K1048	DIODE 1SS253
D703	360K1048	DIODE 1SS253
D704	360K1048	DIODE 1SS253
D705	360K1048	DIODE 1SS253
D706	360K1048	DIODE 1SS253
D707	360K1048	DIODE 1SS253
D708	360K1048	DIODE 1SS253
D709	360K1048	DIODE 1SS253
D710	360K1048	DIODE 1SS253
D711	360K1048	DIODE 1SS253
D712	360K1048	DIODE 1SS253
D713	360K1048	DIODE 1SS253
D714	360K1048	DIODE 1SS253

SYMBOL	PARTS NO	DESCRIPTION
D715	360K1048	DIODE 1SS253
D716	360K1048	DIODE 1SS253
D717	361K7522	DIODE ERA15-02 V1
D718	361K7522	DIODE ERA15-02 V1
D7201	360K1048	DIODE 1SS253
D7202	360K1048	DIODE 1SS253
D8001	360K1048	DIODE 1SS253
D8002	360K1048	DIODE 1SS253
D8003	360K1048	DIODE 1SS253
D8004	360K1048	DIODE 1SS253
D8005	360K1048	DIODE 1SS253
D8006	360K1048	DIODE 1SS253
D8007	360K1048	DIODE 1SS253
D8008	360K1048	DIODE 1SS253
D8009	360K1048	DIODE 1SS253
D801	360K1048	DIODE 1SS253
D8010	360K1048	DIODE 1SS253
D8011	360K1048	DIODE 1SS253
D802	360K1048	DIODE 1SS253
D803	360K1048	DIODE 1SS253
D804	360K1048	DIODE 1SS253
D805	360K1048	DIODE 1SS253
D806	360K1048	DIODE 1SS253
D807	360K1048	DIODE 1SS253
D808	360K1048	DIODE 1SS253
D809	360K1048	DIODE 1SS253
D810	360K1048	DIODE 1SS253
D8101	360K1048	DIODE 1SS253
D8102	360K1048	DIODE 1SS253
D8103	360K1048	DIODE 1SS253
D811	360K1048	DIODE 1SS253
D812	360K1048	DIODE 1SS253
D813	360K1048	DIODE 1SS253
D814	360K1048	DIODE 1SS253
D815	360K1048	DIODE 1SS253
D816	360K1048	DIODE 1SS253
D8201	360K1048	DIODE 1SS253
D8202	360K1048	DIODE 1SS253
D821	360K1048	DIODE 1SS253
D822	360K1048	DIODE 1SS253

SYMBOL	PARTS NO	DESCRIPTION
D823	360K1048	DIODE 1SS253
D824	360K1048	DIODE 1SS253
D825	360K1048	DIODE 1SS253
D826	360K1048	DIODE 1SS253
D827	360K1048	DIODE 1SS253
D828	360K1048	DIODE 1SS253
D829	360K1048	DIODE 1SS253
D830	360K1048	DIODE 1SS253
D8301	360K1048	DIODE 1SS253
D831	360K1048	DIODE 1SS253
D832	360K1048	DIODE 1SS253
D833	360K1048	DIODE 1SS253
D834	360K1048	DIODE 1SS253
D835	360K1048	DIODE 1SS253
D836	360K1048	DIODE 1SS253
D837	360K1048	DIODE 1SS253
D838	360K1048	DIODE 1SS253
D839	360K1048	DIODE 1SS253
D8401	360K1048	DIODE 1SS253
D8402	360K1048	DIODE 1SS253
D8403	360K1048	DIODE 1SS253
D8404	360K1048	DIODE 1SS253
D8405	360K1048	DIODE 1SS253
D8406	360K1048	DIODE 1SS253
D8407	360K1048	DIODE 1SS253
D8408	360K1048	DIODE 1SS253
D8409	360K1048	DIODE 1SS253
D8410	360K1048	DIODE 1SS253
D8411	360K1048	DIODE 1SS253
D8412	360K1048	DIODE 1SS253
D8430	360K1048	DIODE 1SS253
D8431	360K1048	DIODE 1SS253
D8432	360K1048	DIODE 1SS253
D8433	360K1048	DIODE 1SS253
D850	360K1048	DIODE 1SS253
D8501	360K1048	DIODE 1SS253
D8502	360K1048	DIODE 1SS253
D851	360K1048	DIODE 1SS253
D852	360K1048	DIODE 1SS253
D853	360K1048	DIODE 1SS253

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
D861	360K1048	DIODE 1SS253
D8701	360K1048	DIODE 1SS253
D8800	360K1048	DIODE 1SS253
D891	360K1048	DIODE 1SS253
D892	360K1048	DIODE 1SS253
D893	360K1048	DIODE 1SS253
D894	360K1048	DIODE 1SS253
D9003	360K1048	DIODE 1SS253
D901	360K1048	DIODE 1SS253
D902	360K1048	DIODE 1SS253
D903	360K1048	DIODE 1SS253
D904	360K1048	DIODE 1SS253
D905	360K1048	DIODE 1SS253
D9053	360K1048	DIODE 1SS253
D9054	360K1048	DIODE 1SS253
D8055	360K1048	DIODE 1SS253
D9056	361K7562	DIODE EGP 10G G23
D9057	360K1048	DIODE 1SS253
D9058	360K1048	DIODE 1SS253
D9059	360K1048	DIODE 1SS253
D906	360K1048	DIODE 1SS253
D9060	360K1048	DIODE 1SS253
D9061	360K1048	DIODE 1SS253
D9062	360K1048	DIODE 1SS253
D9063	360K1048	DIODE 1SS253
D907	360K1037	DIODE 1SS83
D908	360K1037	DIODE 1SS83
D909	360K1037	DIODE 1SS83
D910	360K1037	DIODE 1SS83
D911	360K1037	DIODE 1SS83
D912	360K1037	DIODE 1SS83
FD1001	36108102	DIODE RD5.6EBX10A
FD1002	36108023	DIODE ARRAY RD5.6EB(1)*5A
FD1003	36108097	DIODE RD5.6EB(1)X6A
FD1004	36108097	DIODE RD5.6EB(1)X6A
FD751	36108065	DIODE ARRAY RD13EB(3)*4A
FD752	36108065	DIODE ARRAY RD13EB(3)*4A
TH601	79T05400	POSISTOR
△TH602	79T04915	POSISTOR
TH7201	381K2054	THERMISTOR 3KD-5FT

SYMBOL	PARTS NO	DESCRIPTION
ZD1001	360K3624	DIODE RD3.9ES AB2-T4
ZD1002	360K3655	DIODE RD8.2ESB(2)/ESAB(2)
ZD1004	360K3647	DIODE RD6.8ESB(2)-T4
ZD1006	360K3634	DIODE RD5.1ESB(1)-T4
ZD1007	360K3642	DIODE RD6.2ES AB1-T4
ZD1008	360K3642	DIODE RD6.2ES AB1-T4
ZD1012	360K3640	DIODE RD5.6ESB(3)-T4
ZD1013	360K3638	DIODE RD5.6ESB(1)-T4
ZD1014	360K3640	DIODE RD5.6ESB(3)-T4
ZD1015	360K3640	DIODE RD5.6ESB(3)-T4
ZD1016	360K3640	DIODE RD5.6ESB(3)-T4
ZD1017	360K3640	DIODE RD5.6ESB(3)-T4
△ZD2001	360K3694	DIODE RD22ES AB1-T4
△ZD2002	360K3634	DIODE RD5.1ESB(1)-T4
△ZD2003	360K3634	DIODE RD5.1ESB(1)-T4
ZD201	360K3634	DIODE RD5.1ESB(1)-T4
ZD202	360K3300	DIODE RD2.0EB(1)-T4
ZD203	360K3300	DIODE RD2.0EB(1)-T4
ZD204	360K3300	DIODE RD2.0EB(1)-T4
ZD4501	360K3617	DIODE RD3.3ES AB1-T4
ZD4502	360K3635	DIODE RD5.1ESB(2)-T4
ZD4503	360K3120	DIODE RD24EB(3)-T4
ZD4504	360K3154	DIODE RD12EB(1)-T4
ZD4505	360K3352	DIODE RD43EB-T4
ZD4506	360K3161	DIODE RD12EB(2)-T4
ZD4507	360K3647	DIODE RD6.8ESB(2)-T4
ZD5004	360K3679	DIODE RD15ESB(2)-T4
ZD5005	360K3679	DIODE RD15ESB(2)-T4
ZD5006	360K3679	DIODE RD15ESB(2)-T4
ZD5007	360K3688	DIODE RD18ES AB3-T4
ZD5009	360K3634	DIODE RD5.1ESB(1)-T4
ZD5013	360K3624	DIODE RD3.9ES AB2-T4
ZD5014	360K3624	DIODE RD3.9ES AB2-T4
△ZD5015	360K3120	DIODE RD24EB(3)-T4
ZD5016	360K3688	DIODE RD18ES AB3-T4
ZD5017	360K3147	DIODE RD18EB(1)-T4
ZD5301	360K3605	DIODE RD2.2ESB(1)-T4
ZD5302	360K3658	DIODE RD9.1ESB(1)-T4
ZD5401	360K3624	DIODE RD3.9ES AB2-T4
ZD5402	360K3623	DIODE RD3.9ESB(1)-T4

SYMBOL	PARTS NO	DESCRIPTION
ZD5505	360K3671	DIODE RD12ESB(2)/ESAB(2)
ZD5506	360K3120	DIODE RD24EB(3)-T4
ZD631	79T04862	ZENER DIODE RD100EB
ZD632	79T06435	ZENER DIODE RD82EB
△ZD634	79T06427	ZENER DIODE RD24ESB
ZD635	79T06434	ZENER DIODE RD8.2ESB
△ZD671	79T06433	ZENER DIODE RD6.2ESB
ZD681	79T06426	ZENER DIODE RD22ESB
ZD701	360K3643	DIODE RD6.2ESB(2)-T4
ZD702	360K3659	DIODE RD9.1ESB(2)-T4
ZD7301	360K3635	DIODE RD5.1ESB(2)-T4
ZD7302	360K3635	DIODE RD5.1ESB(2)-T4
ZD801	360K3675	DIODE RD13ESB(2)-T4
ZD802	360K3675	DIODE RD13ESB(2)-T4
ZD803	360K3675	DIODE RD13ESB(2)-T4
ZD805	360K3639	DIODE RD5.6ESB(2)-T4
ZD8101	360K3635	DIODE RD5.1ESB(2)-T4
ZD8102	360K3635	DIODE RD5.1ESB(2)-T4
ZD818	360K3639	DIODE RD5.6ESB(2)-T4
ZD820	360K3639	DIODE RD5.6ESB(2)-T4
ZD8301	360K3647	DIODE RD6.8ESB(2)-T4
ZD8501	360K3679	DIODE RD15ESB(2)-T4
ZD871	360K3675	DIODE RD13ESB(2)-T4
ZD873	360K3639	DIODE RD5.6ESB(2)-T4
ZD874	360K3639	DIODE RD5.6ESB(2)-T4
ZD875	360K3639	DIODE RD5.6ESB(2)-T4
ZD876	360K3675	DIODE RD13ESB(2)-T4
ZD877	360K3675	DIODE RD13ESB(2)-T4
ZD878	360K3675	DIODE RD13ESB(2)-T4
ZD879	360K3680	DIODE RD15ESB(3)-T4
ZD881	360K3675	DIODE RD13ESB(2)-T4
ZD890	360K3100	DIODE RD5.1EB(2)-T4
ZD9001	360K3640	DIODE RD5.6ESB(3)-T4
ZD9002	360K3634	DIODE RD5.1ESB(1)-T4
ZD9003	360K3634	DIODE RD5.1ESB(1)-T4
ZD9008	360K3634	DIODE RD5.1ESB(1)-T4
ZD901	360K3652	DIODE RD7.5ESB(3)-T4
ZD9010	360K3640	DIODE RD5.6ESB(3)-T4
ZD9011	360K3640	DIODE RD5.6ESB(3)-T4
ZD9012	360K3640	DIODE RD5.6ESB(3)-T4

SYMBOL	PARTS NO	DESCRIPTION
ZD9018	360K3624	DIODE RD3.9ES AB2-T4
ZD9019	360K3656	DIODE RD8.2ES AB3-T4
ZD902	360K3652	DIODE RD7.5ESB(3)-T4
ZD9020	360K3658	DIODE RD9.1ESB(1)-T4
ZD9021	360K3623	DIODE RD3.9ESB(1)-T4
ZD9022	360K3116	DIODE RD4.7EB(3)-T4
ZD9023	360K3623	DIODE RD3.9ESB(1)-T4
ZD903	360K3652	DIODE RD7.5ESB(3)-T4

*** TRANSFORMERS ***

△T5001	47105411	F. B. T
T5002	46302105	TRANS. FERRITE
T5003	46302105	TRANS. FERRITE
△T5004	46399035	H OUT TRANS
T5005	46399036	H DRIVE TRANS
△T601	79T06454	TRANS ST681
T602	79T06455	TRANS ST682

*** VARIABLE RESISTORS ***

△VR2001	41505205	R. VARIABLE B5.0K
VR301	41071213	R. VARIABLE B10K
VR4001	41505207	R. VARIABLE B20K
VR4002	41505202	R. VARIABLE B500H
VR4003	41505215	R. VARIABLE B30K
VR5301	41505208	R. VARIABLE B50K
VR5302	41071213	R. VARIABLE B10K
VR5401	41505215	R. VARIABLE B30K
VR5503	41071213	R. VARIABLE B10K
VR5504	41071213	R. VARIABLE B10K
VR5505	41505210	R. VARIABLE B200K
△VR681	79T06441	R. VARIABLE 500H
VR7101	41071204	R. VARIABLE B330H
VR7201	41071211	R. VARIABLE B4.7K
VR7202	41505203	R. VARIABLE B1K
VR7401	41071213	R. VARIABLE B10K
VR7402	41071211	R. VARIABLE B4.7K
VR7452	41505208	R. VARIABLE B50K
VR8201	41505110	R. VARIABLE B30K

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
VR8202	41505110	R,VARIABLE B30K
VR8203	41505110	R,VARIABLE B30K
VR8204	41505110	R,VARIABLE B30K
VR8205	41505110	R,VARIABLE B30K
VR8206	41505110	R,VARIABLE B30K
VR8401	41505108	R,VARIABLE B10K
VR8402	41505108	R,VARIABLE B10K
VR8403	41505108	R,VARIABLE B10K
VR8701	41505106	R,VARIABLE B3.0K
VR8702	41505108	R,VARIABLE B10K
VR871	41011136	R,VARIABLE B10K
VR872	41011136	R,VARIABLE B10K
VR873	41011135	R,VARIABLE B20K
VR874	41011135	R,VARIABLE B20K
VR875	41011135	R,VARIABLE B20K
VR9001	41505106	R,VARIABLE B3.0K
VR9002	41505206	R,VARIABLE B10K
VR9003	41505207	R,VARIABLE B20K
VR9004	41505206	R,VARIABLE B10K

*** RELAYS & SWITCHES ***

RL5002	65602521	RELAY G6C-1114P
RL5401	65602521	RELAY G6C-1114P
△RL5451	65602521	RELAY G6C-1114P
S101	65399043	PUSH SWITCH
S4501	65113508	SWITCH,SLIDE
S701	65199018	SWITCH,SLIDE
S702	65199018	SWITCH,SLIDE
S703	65199018	SWITCH,SLIDE
S704	65199018	SWITCH,SLIDE
S705	65199027	SWITCH,SLIDE
S750	65199018	SWITCH,SLIDE
S8001	65113508	SWITCH,SLIDE
S801	65199018	SWITCH,SLIDE
S802	65199018	SWITCH,SLIDE
S803	65199018	SWITCH,SLIDE
S804	65199018	SWITCH,SLIDE
S805	65199018	SWITCH,SLIDE
S806	65199018	SWITCH,SLIDE

SYMBOL	PARTS NO	DESCRIPTION
L1002	610F7514	COIL,FILTER 5.6UH
L5001	61064131	COIL,FILTER 47UH
L5002	46210002	COIL,CHOKE 7.6MH
L5003	61064131	COIL,FILTER 47UH
L5004	46207001	COIL,CHOKE 2MH
L5005	61099118	FILTER COIL
△L5401	60917073	COIL,H.LIN
△L5402	60917073	COIL,H.LIN
△L601	79T06410	COIL ELF18D850M
△L602	79T06410	COIL ELF18D850M
△L603	79T06399	COIL
△L631	79T06414	COIL 10UH
△L632	79T06414	COIL 10UH
L633	79T06414	COIL 10UH
L634	79T06415	COIL 4.7UH
L635	79T06402	COIL
L636	79T06402	COIL
L637	79T06402	COIL
L638	79T06402	COIL
L7001	61013015	COIL,FILTER 15UH
L7101	610E1710	COIL,FILTER 2.7UH
L7102	61013009	COIL,FILTER 4.7UH
L7103	61013018	COIL,FILTER 27UH
L7104	610E1719	COIL,FILTER 15UH
L7105	610E1726	COIL,FILTER 56UH
L7106	610E1719	COIL,FILTER 15UH
L7401	610E1716	COIL,FILTER 8.2UH
L7402	610E1724	COIL,FILTER 39UH
L7403	610E1724	COIL,FILTER 39UH
L7404	610E1724	COIL,FILTER 39UH
L901	61013002	COIL,FILTER 1.2UH
L902	61013002	COIL,FILTER 1.2UH
L903	61013002	COIL,FILTER 1.2UH
L904	610E1752	COIL,FILTER 0.68UH
L905	610E1752	COIL,FILTER 0.68UH
L906	610E1752	COIL,FILTER 0.68UH
△T5006	60917089	COIL,LIN
△T5007	60917089	COIL,LIN
△T5401	60917089	COIL,LIN
△T5402	60917089	COIL,LIN
T7101	60565023	COIL,D.L MATCHING

SYMBOL	PARTS NO	DESCRIPTION
S807	65121105	SWITCH,SLIDE
S850	65399033	PUSH SWITCH BUTTON
S851	65399033	PUSH SWITCH BUTTON
S852	65399033	PUSH SWITCH BUTTON
S853	65399033	PUSH SWITCH BUTTON
S854	65399033	PUSH SWITCH BUTTON
S855	65399033	PUSH SWITCH BUTTON
S871	65199018	SWITCH,SLIDE
S872	65121105	SWITCH,SLIDE

*** COILS & FILTERS ***

CF7101	39603402	FOCUS CONTROL VOLUME
DL7001	61605019	CORE,FERRITE
DL7101	61111008	CERAMIC TRAP 4.43MHZ
	61511048	DELAY LINE 0.3US
	61511708	DELAY LINE
DL7201	61511619	DELAY LINE
DL7401	61511709	DELAY LINE 1H(PAL)
FB701	616K4004	FERRITE BEADS
FB8401	61605007	FERRITE BEADS 2.5*1.2*0.7
FB8402	61605007	FERRITE BEADS 2.5*1.2*0.7
FB8403	61605007	FERRITE BEADS 2.5*1.2*0.7
FL801	616K6814	NOISE FILTER
FL802	616K6814	NOISE FILTER
FL803	616K6823	NOISE FILTER
FL804	616K6823	NOISE FILTER
FL805	616K6823	NOISE FILTER
FL806	616K6823	NOISE FILTER
FL807	616K6814	NOISE FILTER
FL808	616K6814	NOISE FILTER
FL809	616K6823	NOISE FILTER
FL810	616K6814	NOISE FILTER
FL814	616K6814	NOISE FILTER
FL815	616K6814	NOISE FILTER
FL8401	616K6823	NOISE FILTER
FL8402	616K6823	NOISE FILTER
FL8403	616K6823	NOISE FILTER
LC7001	61511506	FILTER,NTSC COMB STYLE
L1001	610F7514	COIL,FILTER 5.6UH

SYMBOL	PARTS NO	DESCRIPTION
T7401	60565019	COIL,D.L MATCHING
WI DEG	61329101	COIL,DEGAUSSING

*** PWB ASSYS ***

	931R5A02	VID/SW PWB ASSY
	931R5D02	DEF/HV PWB ASSY
	931R5F02	UCOM/V PWB ASSY
	931R5G02	V-CRT PWB ASSY
	931R5M03	DEF SUB PWB ASSY
	931R5S02	VID I/O PWB ASSY
	932C2K01	RGB PWB ASSY
	932C2T01	RGB I/O PWB ASSY

*** ELECTRICAL PARTS & MISCELLANEOUS PARTS ***

	31710005	DC FAN
	63010112	SPEAKER 90*55 16H 5W ALN
	68043001	BATTERY, DRY CELL SUM-3
	70032227	SG/CRT SOCKET
	70521060	POWER CONNECTOR 10A
	70810759	LINE CORD UC3S L3.0
	73499229	PLUG CABLE (4M)
	79642822	POWER UNIT (G102-AC120V)
CF7001	39020006	TRAP COIL 3.58MHZ
CF7102	39026228	TRAP COIL 4.4MHZ
D.V	48007469	DEFLECTION YOKE
FC1001	39016070	C.NETWORK 50V 560PF
FC9001	39016026	C.NETWORK 50V 100PF
FC9002	39016006	C.NETWORK 50V 100PF
FR1001	39030048	R.NETWORK 4*22K 5% 1/8W
FR1002	39030152	R.NETWORK 8*4.7K 5% 1/8W
FR1003	39032001	R.NETWORK 6*47K 5% 1/10W
FR1004	39032001	R.NETWORK 6*47K 5% 1/10W
FR1005	39032002	R.NETWORK 4*22K 5% 1/10W
FR5001	39030098	R.NETWORK 4*4.7K 5% 1/8W
FR5002	39030098	R.NETWORK 4*4.7K 5% 1/8W
FRT51	39030040	R.NETWORK 4*100K 5% 1/8W
FRT52	39030040	R.NETWORK 4*100K 5% 1/8W
△F601	79T06378	FUSE 250V 6.3A
F631	79T06405	FUSE 5A 125V
F632	79T06405	FUSE 5A 125V

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
MG	49005019	MAGNET, CPC
M705	70057006	DIN SOCKET 4P (SW-2)
M706	70057008	DIN SOCKET 4P
M707	70057006	DIN SOCKET 4P (SW-2)
M708	70057008	DIN SOCKET 4P
M709	70056406	D-SUB SOCKET 9P
M710	70056406	D-SUB SOCKET 9P
M711	70505027	HEADPHONE JACK
M712	70505027	HEADPHONE JACK
M750	71199021	TERMINAL 4P, SPEAKER
M751	70051121	PIN JACK 1P
M752	70051121	PIN JACK 1P
M753	70051124	PIN JACK 1P
M754	70051120	PIN JACK 1P
M755	70051121	PIN JACK 1P
M756	70051121	PIN JACK 1P
M757	70051124	PIN JACK 1P
M758	70051120	PIN JACK 1P
M801	70056208	D-SUB SOCKET 15P
M802	70056208	D-SUB SOCKET 15P
M871	70051121	PIN JACK 1P
M872	70051121	PIN JACK 1P
M873	70051124	PIN JACK 1P
M874	70051120	PIN JACK 1P
△PC601	79T06420	PHOTO COUPLER PC111LY1
△PC602	79T06420	PHOTO COUPLER PC111LY1
REM	79642703	REM-T HAND UNIT RD-335E
RV101	79606107	IC BX-1407 (PHOTO SENS)
△RV601	79T06401	RELAY 10A 250V
△RV602	79T06401	RELAY 10A 250V
△SG5301	66706003	SPARK GAP 2.0KV
SG801	66706001	SPARK GAP 1.2KV
△SG901	66706001	SPARK GAP 1.2KV
△SG902	66706001	SPARK GAP 1.2KV
△SG903	66706001	SPARK GAP 1.2KV
△SG904	66706001	SPARK GAP 1.2KV
SK890	70102141	SOCKET, IC 8P
X1001	64099080	X'TAL 8.000MHZ (NDK)
X7401	64003022	X'TAL OSC 3.58MHZ
X7402	64003027	X'TAL 4.43MHZ (NDK)
	24C01411	HOLDER (ANODE LEAD) B
	24F18372	LED HOLDER
	24H14701	SPRING

SYMBOL	PARTS NO	DESCRIPTION
R1013	401K5673	R. CARBON 1.0K 5% 1/6W
R1014	401K5673	R. CARBON 1.0K 5% 1/6W
R1015	401K5697	R. CARBON 10K 5% 1/6W
R1016	401K5673	R. CARBON 1.0K 5% 1/6W
R1019	404C1723	R. METAL 120K 1% 1/6W
R1020	401K5689	R. CARBON 4.7K 5% 1/6W
R1021	401K5693	R. CARBON 6.8K 5% 1/6W
R1022	401K5695	R. CARBON 8.2K 5% 1/6W
R1023	401K5681	R. CARBON 2.2K 5% 1/6W
R1024	401K5695	R. CARBON 8.2K 5% 1/6W
R1025	401K5633	R. CARBON 22H 5% 1/6W
R1026	401K5633	R. CARBON 22H 5% 1/6W
R1027	401K5633	R. CARBON 22H 5% 1/6W
R1028	401K5689	R. CARBON 4.7K 5% 1/6W
R1031	401K5713	R. CARBON 47K 5% 1/6W
R1032	401K5693	R. CARBON 6.8K 5% 1/6W
R1033	401K5681	R. CARBON 2.2K 5% 1/6W
R1034	401K5701	R. CARBON 15K 5% 1/6W
R1035	401K5681	R. CARBON 2.2K 5% 1/6W
R1036	401K5673	R. CARBON 1.0K 5% 1/6W
R1037	401K5673	R. CARBON 1.0K 5% 1/6W
R1038	401K5673	R. CARBON 1.0K 5% 1/6W
R1039	401K5673	R. CARBON 1.0K 5% 1/6W
R1040	401K5673	R. CARBON 1.0K 5% 1/6W
R1041	401K5673	R. CARBON 1.0K 5% 1/6W
△R1042	401G6173	R. CARBON 1.0K 5% 1/4W
R1043	401K5673	R. CARBON 1.0K 5% 1/6W
R1044	401K5673	R. CARBON 1.0K 5% 1/6W
R1045	401K5673	R. CARBON 1.0K 5% 1/6W
R1046	401K5673	R. CARBON 1.0K 5% 1/6W
R1047	401K5673	R. CARBON 1.0K 5% 1/6W
R1048	401K5673	R. CARBON 1.0K 5% 1/6W
R1049	401K5689	R. CARBON 4.7K 5% 1/6W
R1050	401K5697	R. CARBON 10K 5% 1/6W
R1051	401K5673	R. CARBON 1.0K 5% 1/6W
R1052	401K5673	R. CARBON 1.0K 5% 1/6W
R1053	401K5673	R. CARBON 1.0K 5% 1/6W
R1054	401K5673	R. CARBON 1.0K 5% 1/6W
R1055	401K5673	R. CARBON 1.0K 5% 1/6W
R1056	401K5673	R. CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
*** APPEARANCE PARTS ***		
	24DT3972	CABINET BACK ASSY
	24DT4671	CABINET FRONT ASSY
	24FT5001	CASE (REMOTE)
	24514792	COIL SPRING
	70301534	RUBBER WEDGE
	70301536	FERRITE SHEET
	70301537	FERRITE SHEET (60MM)
	70301538	FERRITE SHEET
	16761791	SERIAL LABEL
	24L29481	SERIAL NUMBER LABEL
	24L30502	LABEL (WARNING)
	24L30512	LABEL (CAUTION)
	24L30712	LABEL (WARNING) (CSA)
BNC1	12400521	HOLDER (BNC)
BNC2	12400521	HOLDER (BNC)
BNC3	12400521	HOLDER (BNC)
BNC4	12400521	HOLDER (BNC)

SYMBOL	PARTS NO	DESCRIPTION
*** PRINTED & PACKING MATERIALS ***		
	24MT7651	SPACER T
	24MT8001	CARTON BOX (XM-2950)
	24806961	BAG, POLYETHYLENE (270*370)
	24813191	BAG, POLYETHYLENE (150*370)
	78036581	REGISTRATION CARD MM
	78405881	USER'S MANUAL XM-2950
	24L29491	DHHS CARD (NEC)
	24MT7662	FILLER B, CARTON
	24M02911	BAG, POLYETHYLENE (DHHS)
	24M09081	BAG, PROTECTION

SYMBOL	PARTS NO	DESCRIPTION
*** RESISTORS ***		
R1001	401K5661	R. CARBON 330H 5% 1/6W
R1002	401K5661	R. CARBON 330H 5% 1/6W
R1003	401K5661	R. CARBON 330H 5% 1/6W
R1004	401K5661	R. CARBON 330H 5% 1/6W
R1005	401K5697	R. CARBON 10K 5% 1/6W
R1006	401C6661	R. CARBON 330H 5% 1/4W
△R1007	401G6109	R. CARBON 2.2H 5% 1/4W
△R1008	40175147	R. CARBON 82H 5% 1/4W
R1009	401K5713	R. CARBON 47K 5% 1/6W
R1010	401K5713	R. CARBON 47K 5% 1/6W
R1011	401K5713	R. CARBON 47K 5% 1/6W
R1012	401K5673	R. CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R1057	401K5721	R. CARBON 100K 5% 1/6W
R1058	401K5713	R. CARBON 47K 5% 1/6W
R1059	401K5713	R. CARBON 47K 5% 1/6W
R1060	401K5697	R. CARBON 10K 5% 1/6W
R1061	401K5697	R. CARBON 10K 5% 1/6W
R1062	401C6653	R. CARBON 150H 5% 1/4W
△R1063	401G6117	R. CARBON 4.7H 5% 1/4W
R1064	401K5697	R. CARBON 10K 5% 1/6W
R1065	401K5673	R. CARBON 1.0K 5% 1/6W
R1066	401K5689	R. CARBON 4.7K 5% 1/6W
R1067	401K5673	R. CARBON 1.0K 5% 1/6W
R1068	401K5673	R. CARBON 1.0K 5% 1/6W
R1069	401K5673	R. CARBON 1.0K 5% 1/6W
R1070	401K5673	R. CARBON 1.0K 5% 1/6W
R1071	401K5673	R. CARBON 1.0K 5% 1/6W
R1072	401K5697	R. CARBON 10K 5% 1/6W
R1073	401K5705	R. CARBON 22K 5% 1/6W
R1074	401K5713	R. CARBON 47K 5% 1/6W
R1075	401K5673	R. CARBON 1.0K 5% 1/6W
R1076	401K5673	R. CARBON 1.0K 5% 1/6W
R1077	401K5711	R. CARBON 39K 5% 1/6W
R1078	401K5705	R. CARBON 22K 5% 1/6W
R1079	401K5713	R. CARBON 47K 5% 1/6W
R1080	401K5673	R. CARBON 1.0K 5% 1/6W
R1081	401K5673	R. CARBON 1.0K 5% 1/6W
R1082	401K5673	R. CARBON 1.0K 5% 1/6W
R1083	401K5697	R. CARBON 10K 5% 1/6W
R1084	401K5697	R. CARBON 10K 5% 1/6W
R1085	401K5721	R. CARBON 100K 5% 1/6W
△R2001	401G6109	R. CARBON 2.2H 5% 1/4W
△R2002	404C1697	R. METAL 10K 1% 1/6W
△R2003	404C1701	R. METAL 15K 1% 1/6W
△R2004	401K5699	R. CARBON 12K 5% 1/6W
△R2005	401K5649	R. CARBON 100H 5% 1/6W
△R2006	401K5709	R. CARBON 33K 5% 1/6W
R2007	401K5709	R. CARBON 33K 5% 1/6W
△R2008	401K5709	R. CARBON 33K 5% 1/6W
△R2009	404C1713	R. METAL 47K 1% 1/6W
△R201	40372135	R. METAL 27H 5% 2W
△R2010	404C1721	R. METAL 100K 1% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
△R2011	404C1697	R,METAL 10K 1% 1/6W
△R2012	404C1696	R,METAL 9.1K 1% 1/6W
△R2013	401K5697	R,CARBON 10K 5% 1/6W
△R2014	401K5697	R,CARBON 10K 5% 1/6W
△R2015	401K5721	R,CARBON 100K 5% 1/6W
△R2016	404C1677	R,METAL 1.5K 1% 1/6W
△R2017	404C1697	R,METAL 10K 1% 1/6W
△R2018	401K5683	R,CARBON 2.7K 5% 1/6W
△R202	40372135	R,METAL 27H 5% 2W
R203	401K5691	R,CARBON 5.6K 5% 1/6W
△R204	40178135	R,CARBON 27H 5%
R205	401K5691	R,CARBON 5.6K 5% 1/6W
△R206	40178135	R,CARBON 27H 5%
△R207	40371117	R,METAL 4.7H 5% 1W
R208	401K5705	R,CARBON 22K 5% 1/6W
△R209	40178135	R,CARBON 27H 5%
R210	401K5691	R,CARBON 5.6K 5% 1/6W
△R301	401G6109	R,CARBON 2.2H 5% 1/4W
△R302	401G6109	R,CARBON 2.2H 5% 1/4W
△R303	40373107	R,METAL 1.8H 5% 3W
R304	401K5683	R,CARBON 2.7K 5% 1/6W
R305	401K5687	R,CARBON 3.9K 5% 1/6W
R306	401K5683	R,CARBON 2.7K 5% 1/6W
R308	401K5697	R,CARBON 10K 5% 1/6W
R310	401K5705	R,CARBON 22K 5% 1/6W
R311	401K5705	R,CARBON 22K 5% 1/6W
△R312	401G6141	R,CARBON 47H 5% 1/4W
R314	401K5705	R,CARBON 22K 5% 1/6W
R315	401K5713	R,CARBON 47K 5% 1/6W
R316	401K5713	R,CARBON 47K 5% 1/6W
R317	401K5729	R,CARBON 220K 5% 1/6W
R4001	401K5633	R,CARBON 22H 5% 1/6W
R4003	404C1711	R,METAL 39K 1% 1/6W
R4004	401K5697	R,CARBON 10K 5% 1/6W
R4005	404C1697	R,METAL 10K 1% 1/6W
R4006	401K5691	R,CARBON 5.6K 5% 1/6W
R4007	404C1727	R,METAL 180K 1% 1/6W
R4009	404C1715	R,METAL 56K 1% 1/6W
R4009B	401K5691	R,CARBON 5.6K 5% 1/6W
R4010	404C1703	R,METAL 18K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R4011	401K5697	R,CARBON 10K 5% 1/6W
R4012	401K5697	R,CARBON 10K 5% 1/6W
R4013	404C1695	R,METAL 8.2K 1% 1/6W
R4014	401K5673	R,CARBON 1.0K 5% 1/6W
R4015	404C1711	R,METAL 39K 1% 1/6W
R4016	401K5633	R,CARBON 22H 5% 1/6W
R4017	401K5697	R,CARBON 10K 5% 1/6W
R4018	401K5723	R,CARBON 120K 5% 1/6W
R4019	401K5705	R,CARBON 22K 5% 1/6W
R4021	401K5697	R,CARBON 10K 5% 1/6W
R4022	404C1699	R,METAL 12K 1% 1/6W
R4023	404C1697	R,METAL 10K 1% 1/6W
R4024	404C1697	R,METAL 10K 1% 1/6W
R4025	404C1711	R,METAL 39K 1% 1/6W
R4026	401K5697	R,CARBON 10K 5% 1/6W
R4027	401K5697	R,CARBON 10K 5% 1/6W
R4028	401K5657	R,CARBON 220H 5% 1/6W
R4029	401K5715	R,CARBON 56K 5% 1/6W
R4030	401K5687	R,CARBON 3.9K 5% 1/6W
R4031	401K5687	R,CARBON 3.9K 5% 1/6W
R4032	401K5731	R,CARBON 270K 5% 1/6W
R4033	401K5719	R,CARBON 82K 5% 1/6W
R4034	401K5665	R,CARBON 470H 5% 1/6W
R4035	401K5693	R,CARBON 6.8K 5% 1/6W
R4036	404C1699	R,METAL 12K 1% 1/6W
R4038	401K5719	R,CARBON 82K 5% 1/6W
R4041	401K5687	R,CARBON 3.9K 5% 1/6W
R4042	401K5673	R,CARBON 1.0K 5% 1/6W
R4043	401K5633	R,CARBON 22H 5% 1/6W
R4044	401K5697	R,CARBON 10K 5% 1/6W
R4045	404C1721	R,METAL 100K 1% 1/6W
R4046	404C1721	R,METAL 100K 1% 1/6W
△R4501	40373203	R,METAL 18K 5% 3W
R4502	401H5683	R,CARBON 2.7K 5% 1/2W
R4503	401K5697	R,CARBON 10K 5% 1/6W
R4504	401K5697	R,CARBON 10K 5% 1/6W
R4505	401H5707	R,CARBON 27K 5% 1/2W
R4506	401K5677	R,CARBON 1.5K 5% 1/6W
R4507	401H5673	R,CARBON 1.0K 5% 1/2W
△R4508	40371101	R,METAL 1.0H 5% 1W

SYMBOL	PARTS NO	DESCRIPTION
△R4509	40371101	R,METAL 1.0H 5% 1W
R4510	401K5707	R,CARBON 27K 5% 1/6W
R4512	401K5641	R,CARBON 47H 5% 1/6W
R4513	401K5685	R,CARBON 3.3K 5% 1/6W
△R4514	40352161	R,METAL 330H 5% 2W
△R4515	40373111	R,METAL 2.7H 5% 3W
R4518	401K5709	R,CARBON 33K 5% 1/6W
R4519	401K5709	R,CARBON 33K 5% 1/6W
R4520	401K5659	R,CARBON 270H 5% 1/6W
R4521	404C1721	R,METAL 100K 1% 1/6W
R4522	404C1706	R,METAL 24K 1% 1/6W
R4523	404C1682	R,METAL 2.4K 1% 1/6W
R4524	404C1718	R,METAL 75K 1% 1/6W
R4525	404C1709	R,METAL 33K 1% 1/6W
R4526	401K5683	R,CARBON 2.7K 5% 1/6W
R4527	401K5683	R,CARBON 2.7K 5% 1/6W
△R4528	40373153	R,METAL 150H 5% 3W
△R4529	40373153	R,METAL 150H 5% 3W
R4530	401K5649	R,CARBON 100H 5% 1/6W
△R4531	40371111	R,METAL 2.7H 5% 1W
△R4532	40373139	R,METAL 39H 5% 3W
△R4533	40371175	R,METAL 1.2K 5% 1W
△R4534	40175101	R,CARBON 1H 5% 1/4W
△R4535	40372157	R,METAL 220H 5% 2W
R4536	401C6681	R,CARBON 2.2K 5% 1/4W
R5050	404C1722	R,METAL 110K 1% 1/6W
R5051	404C1713	R,METAL 47K 1% 1/6W
R5052	404C1699	R,METAL 12K 1% 1/6W
R5053	401K5713	R,CARBON 47K 5% 1/6W
△R5089	40178103	R,CARBON 1.2H 5% 1/4W
R5090	401G6185	R,CARBON 3.3K 5% 1/4W
R5091	401K5741	R,CARBON 680K 5% 1/6W
R5093	401K5693	R,CARBON 6.8K 5% 1/6W
△R5094	401G6127	R,CARBON 12H 5% 1/4W
R5095	401K5641	R,CARBON 47H 5% 1/6W
R5096	401K5693	R,CARBON 6.8K 5% 1/6W
R5097	401K5687	R,CARBON 3.9K 5% 1/6W
R5098	401K5733	R,CARBON 330K 5% 1/6W
△R5099	40178173	R,CARBON 1.0K 5% 1/2W
R5100	401C6677	R,CARBON 1.5K 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R5101	401K5695	R,CARBON 8.2K 5% 1/6W
R5102	401K5673	R,CARBON 1.0K 5% 1/6W
△R5103	40178137	R,CARBON 33H 5% 1/2W
R5108	401K5693	R,CARBON 6.8K 5% 1/6W
△R5109	401G6127	R,CARBON 12H 5% 1/4W
R5111	401K5687	R,CARBON 3.9K 5% 1/6W
R5112	401K5693	R,CARBON 6.8K 5% 1/6W
R5113	401K5633	R,CARBON 22H 5% 1/6W
R5114	404C1718	R,METAL 75K 1% 1/6W
R5115	404C1718	R,METAL 75K 1% 1/6W
R5116	404C1697	R,METAL 10K 1% 1/6W
△R5117	401G6109	R,CARBON 2.2H 5% 1/4W
R5118	404C1705	R,METAL 22K 1% 1/6W
R5119	401K5677	R,CARBON 1.5K 5% 1/6W
△R5120	401G6141	R,CARBON 47H 5% 1/4W
R5121	404C1703	R,METAL 18K 1% 1/6W
R5122	404C1717	R,METAL 68K 1% 1/6W
△R5123	401G6149	R,CARBON 100H 5% 1/4W
△R5124	401G6125	R,CARBON 10H 5% 1/4W
△R5125	401G6109	R,CARBON 2.2H 5% 1/4W
R5126	401C6651	R,CARBON 120H 5% 1/4W
△R5127	40299148	R,WIRE 1.0H 5% 7W
△R5128	40299148	R,WIRE 1.0H 5% 7W
R5129	401C6651	R,CARBON 120H 5% 1/4W
△R5130	40372333	R,METAL 0.33H 5% 2W
R5131	401K5705	R,CARBON 22K 5% 1/6W
R5132	401K5697	R,CARBON 10K 5% 1/6W
R5133	401K5653	R,CARBON 150H 5% 1/6W
R5134	401K5705	R,CARBON 22K 5% 1/6W
R5135	401K5697	R,CARBON 10K 5% 1/6W
R5136	401K5655	R,CARBON 180H 5% 1/6W
△R5137	40371135	R,METAL 27H 5% 1W
△R5138	40371135	R,METAL 27H 5% 1W
△R5140	40372159	R,METAL 270H 5% 2W
△R5141	40372159	R,METAL 270H 5% 2W
R5142	401K5649	R,CARBON 100H 5% 1/6W
R5143	401K5649	R,CARBON 100H 5% 1/6W
R5144	401K5649	R,CARBON 100H 5% 1/6W
R5145	401K5649	R,CARBON 100H 5% 1/6W
R5146	401K5649	R,CARBON 100H 5% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
△R5147	40372141	R.METAL 47H 5% 2W
R5148	401K5697	R.CARBON 10K 5% 1/6W
R5148B	401K5697	R.CARBON 10K 5% 1/6W
R5149	404C1717	R.METAL 68K 1% 1/6W
R5150	404C1717	R.METAL 68K 1% 1/6W
R5151	401H5721	R.CARBON 100K 5% 1/2W
△R5152	401G6173	R.CARBON 1.0K 5% 1/4W
R5153	401C6715	R.CARBON 56K 5% 1/4W
R5154	401C6717	R.CARBON 68K 5% 1/4W
R5155	401K5697	R.CARBON 10K 5% 1/6W
R5156	401K5721	R.CARBON 100K 5% 1/6W
R5157	401K5697	R.CARBON 10K 5% 1/6W
R5158	401C6725	R.CARBON 150K 5% 1/4W
R5159	401K5705	R.CARBON 22K 5% 1/6W
R5160	401K5697	R.CARBON 10K 5% 1/6W
R5161	401K5709	R.CARBON 33K 5% 1/6W
R5162	401K5673	R.CARBON 1.0K 5% 1/6W
R5163	401H5745	R.CARBON 1.0M 5% 1/2W
R5164	401H5673	R.CARBON 1.0K 5% 1/2W
R5165	400K3584	R.SOLID 8.2M 10% 1/2W
R5168	401K5709	R.CARBON 33K 5% 1/6W
R5169	401K5697	R.CARBON 10K 5% 1/6W
R5170	401K5697	R.CARBON 10K 5% 1/6W
△R5171	401G6109	R.CARBON 2.2H 5% 1/4W
R5172	401K5715	R.CARBON 56K 5% 1/6W
R5174	404C1705	R.METAL 22K 1% 1/6W
R5175	404C1728	R.METAL 200K 1% 1/6W
R5176	404C1735	R.METAL 390K 1% 1/6W
R5177	404C1715	R.METAL 56K 1% 1/6W
R5178	404C1703	R.METAL 18K 1% 1/6W
R5179	401K5697	R.CARBON 10K 5% 1/6W
R5180	401K5697	R.CARBON 10K 5% 1/6W
△R5186	40371155	R.METAL 180H 5% 1W
R5187	401K5649	R.CARBON 100H 5% 1/6W
R5188	401K5691	R.CARBON 5.6K 5% 1/6W
R5189	401K5697	R.CARBON 10K 5% 1/6W
R5191	401K5697	R.CARBON 10K 5% 1/6W
R5192	404C1721	R.METAL 100K 1% 1/6W
R5193	401K5709	R.CARBON 33K 5% 1/6W
R5194	404C1697	R.METAL 10K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
△R5195	401G6109	R.CARBON 2.2H 5% 1/4W
R5196	404C1707	R.METAL 27K 1% 1/6W
R5197	404C1716	R.METAL 62K 1% 1/6W
△R5198	404C1723	R.METAL 120K 1% 1/6W
R5199	401K5741	R.CARBON 680K 5% 1/6W
△R5200	401G6125	R.CARBON 10H 5% 1/4W
R5201	404C1693	R.METAL 6.8K 1% 1/6W
R5202	401K5677	R.CARBON 1.5K 5% 1/6W
R5203	401K5681	R.CARBON 2.2K 5% 1/6W
R5204	401K5701	R.CARBON 15K 5% 1/6W
R5206	404C1723	R.METAL 120K 1% 1/6W
△R5208	40371103	R.METAL 1.2H 5% 1W
R5211	401K5689	R.CARBON 4.7K 5% 1/6W
R5212	401K5713	R.CARBON 47K 5% 1/6W
R5213	401K5649	R.CARBON 100H 5% 1/6W
△R5303	40371221	R.METAL 100K 5% 1W
△R5304	40371221	R.METAL 100K 5% 1W
△R5305	40371221	R.METAL 100K 5% 1W
△R5306	40371221	R.METAL 100K 5% 1W
△R5307	40371221	R.METAL 100K 5% 1W
R5308	401K5693	R.CARBON 6.8K 5% 1/6W
R5309	401K5681	R.CARBON 2.2K 5% 1/6W
R5311	401K5693	R.CARBON 6.8K 5% 1/6W
R5312	401K5679	R.CARBON 1.8K 5% 1/6W
R5313	401K5673	R.CARBON 1.0K 5% 1/6W
R5314	401K5709	R.CARBON 33K 5% 1/6W
R5315	401K5713	R.CARBON 47K 5% 1/6W
R5316	401K5715	R.CARBON 56K 5% 1/6W
R5317	401K5697	R.CARBON 10K 5% 1/6W
R5318	401K5697	R.CARBON 10K 5% 1/6W
R5319	401K5729	R.CARBON 220K 5% 1/6W
R5320	401K5695	R.CARBON 8.2K 5% 1/6W
R5321	401K5721	R.CARBON 100K 5% 1/6W
R5322	401K5705	R.CARBON 22K 5% 1/6W
R5323	401K5673	R.CARBON 1.0K 5% 1/6W
R5324	401K5673	R.CARBON 1.0K 5% 1/6W
R5325	401K5715	R.CARBON 56K 5% 1/6W
R5326	401K5737	R.CARBON 470K 5% 1/6W
R5327	401K5715	R.CARBON 56K 5% 1/6W
R5328	401K5721	R.CARBON 100K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
△R5331	40178229	R.CARBON 220K 5% 1/2W
△R5332	40178229	R.CARBON 220K 5% 1/2W
△R5333	40178229	R.CARBON 220K 5% 1/2W
△R5334	40178229	R.CARBON 220K 5% 1/2W
△R5335	40178229	R.CARBON 220K 5% 1/2W
△R5336	40178229	R.CARBON 220K 5% 1/2W
R5337	401K5705	R.CARBON 22K 5% 1/6W
R5338	401K5673	R.CARBON 1.0K 5% 1/6W
R5339	401H5677	R.CARBON 1.5K 5% 1/2W
△R5401	40372173	R.METAL 1.0K 5% 2W
△R5402	40372159	R.METAL 270H 5% 2W
△R5403	40372159	R.METAL 270H 5% 2W
R5404	401K5661	R.CARBON 330H 5% 1/6W
R5405	401K5661	R.CARBON 330H 5% 1/6W
R5406	401K5655	R.CARBON 180H 5% 1/6W
R5407	401K5697	R.CARBON 10K 5% 1/6W
R5408	401K5705	R.CARBON 22K 5% 1/6W
△R5409	40371135	R.METAL 27H 5% 1W
△R5410	40371135	R.METAL 27H 5% 1W
R5411	404C1707	R.METAL 27K 1% 1/6W
R5412	404C1721	R.METAL 100K 1% 1/6W
R5413	404C1708	R.METAL 30K 1% 1/6W
R5414	404C1721	R.METAL 100K 1% 1/6W
R5415	404C1709	R.METAL 33K 1% 1/6W
R5416	404C1721	R.METAL 100K 1% 1/6W
R5417	404C1709	R.METAL 33K 1% 1/6W
R5418	404C1719	R.METAL 82K 1% 1/6W
R5419	404C1715	R.METAL 56K 1% 1/6W
R5420	401K5697	R.CARBON 10K 5% 1/6W
R5421	401K5697	R.CARBON 10K 5% 1/6W
R5422	404C1705	R.METAL 22K 1% 1/6W
R5423	404C1707	R.METAL 27K 1% 1/6W
R5424	401K5697	R.CARBON 10K 5% 1/6W
R5425	401K5697	R.CARBON 10K 5% 1/6W
R5426	401K5699	R.CARBON 12K 5% 1/6W
R5427	401K5679	R.CARBON 1.8K 5% 1/6W
R5428	401K5693	R.CARBON 6.8K 5% 1/6W
R5429	401K5693	R.CARBON 6.8K 5% 1/6W
R5430	401K5713	R.CARBON 47K 5% 1/6W
R5431	404C1721	R.METAL 100K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5432	404C1721	R.METAL 100K 1% 1/6W
R5433	404C1714	R.METAL 51K 1% 1/6W
R5434	404C1727	R.METAL 180K 1% 1/6W
R5435	401K5701	R.CARBON 15K 5% 1/6W
R5436	404C1727	R.METAL 180K 1% 1/6W
R5437	404C1707	R.METAL 27K 1% 1/6W
R5438	404C1693	R.METAL 6.8K 1% 1/6W
R5439	401K5707	R.CARBON 27K 5% 1/6W
R5440	404C1718	R.METAL 75K 1% 1/6W
R5441	404C1721	R.METAL 100K 1% 1/6W
R5442	404C1725	R.METAL 150K 1% 1/6W
R5443	404C1708	R.METAL 30K 1% 1/6W
R5444	404C1686	R.METAL 3.6K 1% 1/6W
R5445	401K5681	R.CARBON 2.2K 5% 1/6W
R5446	401K5713	R.CARBON 47K 5% 1/6W
△R5447	40372173	R.METAL 1.0K 5% 2W
△R5448	401G6157	R.CARBON 220H 5% 1/4W
R5451	401K5709	R.CARBON 33K 5% 1/6W
△R5452	401G6125	R.CARBON 10H 5% 1/4W
△R5453	401G6125	R.CARBON 10H 5% 1/4W
R5454	401K5649	R.CARBON 100H 5% 1/6W
R5455	401K5649	R.CARBON 100H 5% 1/6W
R5460	401H5697	R.CARBON 10K 5% 1/6W
△R5461	40371137	R.METAL 33H 5% 1W
R5501	401K5745	R.CARBON 1.0M 5% 1/6W
R5502	401K5673	R.CARBON 1.0K 5% 1/6W
R5503	404C1715	R.METAL 56K 1% 1/6W
R5504	404C1697	R.METAL 10K 1% 1/6W
R5505	404C1697	R.METAL 10K 1% 1/6W
R5506	404C1705	R.METAL 22K 1% 1/6W
R5507	401K5697	R.CARBON 10K 5% 1/6W
R5508	404C1705	R.METAL 22K 1% 1/6W
R5509	401K5697	R.CARBON 10K 5% 1/6W
R5510	401K5697	R.CARBON 10K 5% 1/6W
R5511	404C1727	R.METAL 180K 1% 1/6W
R5512	404C1721	R.METAL 100K 1% 1/6W
R5513	404C1721	R.METAL 100K 1% 1/6W
R5514	401K5633	R.CARBON 22H 5% 1/6W
R5523	401K5697	R.CARBON 10K 5% 1/6W
R5524	404C1725	R.METAL 150K 1% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R5525	404C1697	R,METAL 10K 1% 1/6W
R5526	404C1697	R,METAL 10K 1% 1/6W
R5527	404C1703	R,METAL 18K 1% 1/6W
R5528	401K5697	R,CARBON 10K 5% 1/6W
R5529	404C1701	R,METAL 15K 1% 1/6W
R5530	401K5697	R,CARBON 10K 5% 1/6W
R5531	401K5697	R,CARBON 10K 5% 1/6W
R5532	404C1685	R,METAL 3.3K 1% 1/6W
R5533	404C1713	R,METAL 47K 1% 1/6W
R5534	404C1723	R,METAL 120K 1% 1/6W
ΔR5535	40372173	R,METAL 1.0K 5% 2W
R5536	401K5689	R,CARBON 4.7K 5% 1/6W
R5537	401K5705	R,CARBON 22K 5% 1/6W
R5538	401K5697	R,CARBON 10K 5% 1/6W
ΔR5539	40175159	R,CARBON 270H 5% 1/4W
R5540	404C1721	R,METAL 100K 1% 1/6W
R5541	404C1713	R,METAL 47K 1% 1/6W
R5542	404C1720	R,METAL 91K 1% 1/6W
R5543	404C1713	R,METAL 47K 1% 1/6W
R5544	404C1713	R,METAL 47K 1% 1/6W
R5545	404C1725	R,METAL 150K 1% 1/6W
R5546	404C1723	R,METAL 120K 1% 1/6W
R5547	401K5697	R,CARBON 10K 5% 1/6W
R5548	401K5697	R,CARBON 10K 5% 1/6W
R5549	404C1701	R,METAL 15K 1% 1/6W
R5550	401K5697	R,CARBON 10K 5% 1/6W
R5551	401K5697	R,CARBON 10K 5% 1/6W
R5552	401K5703	R,CARBON 18K 5% 1/6W
R5553	401K5697	R,CARBON 10K 5% 1/6W
R5554	401K5697	R,CARBON 10K 5% 1/6W
R5555	401K5725	R,CARBON 150K 5% 1/6W
R5556	401K5721	R,CARBON 100K 5% 1/6W
R5557	401K5721	R,CARBON 100K 5% 1/6W
R5558	401K5673	R,CARBON 1.0K 5% 1/6W
R5559	401K5673	R,CARBON 1.0K 5% 1/6W
R5560	401K5717	R,CARBON 68K 5% 1/6W
R5561	401K5717	R,CARBON 68K 5% 1/6W
R5562	404C1711	R,METAL 39K 1% 1/6W
R5563	404C1699	R,METAL 12K 1% 1/6W
R5564	404C1707	R,METAL 27K 1% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5565	401K5697	R,CARBON 10K 5% 1/6W
R5566	401K5697	R,CARBON 10K 5% 1/6W
R5567	401K5681	R,CARBON 2.2K 5% 1/6W
R5568	401K5721	R,CARBON 100K 5% 1/6W
R5569	401K5713	R,CARBON 47K 5% 1/6W
R5570	401K5697	R,CARBON 10K 5% 1/6W
R5571	404C1715	R,METAL 56K 1% 1/6W
R5572	404C1715	R,METAL 56K 1% 1/6W
R5573	404C1733	R,METAL 330K 1% 1/6W
R5574	404C1710	R,METAL 36K 1% 1/6W
R5575	404C1710	R,METAL 36K 1% 1/6W
R5576	404C1729	R,METAL 220K 1% 1/6W
R5577	404C1721	R,METAL 100K 1% 1/6W
R5579	404C1721	R,METAL 100K 1% 1/6W
R5580	404C1721	R,METAL 100K 1% 1/6W
R5581	404C1721	R,METAL 100K 1% 1/6W
R5582	404C1721	R,METAL 100K 1% 1/6W
R5583	401K5673	R,CARBON 1.0K 5% 1/6W
R5585	401K5685	R,CARBON 3.3K 5% 1/6W
R5587	404C1673	R,METAL 1.0K 1% 1/6W
R5588	404C1715	R,METAL 56K 1% 1/6W
R5589	401K5697	R,CARBON 10K 5% 1/6W
R5590	404C1711	R,METAL 39K 1% 1/6W
R5591	404C1711	R,METAL 39K 1% 1/6W
R5592	404C1723	R,METAL 120K 1% 1/6W
R5593	404C1711	R,METAL 39K 1% 1/6W
R5594	404C1711	R,METAL 39K 1% 1/6W
R5595	401K5633	R,CARBON 22H 5% 1/6W
R5596	401K5633	R,CARBON 22H 5% 1/6W
R5597	401K5673	R,CARBON 1.0K 5% 1/6W
R5598	401K5697	R,CARBON 10K 5% 1/6W
R5599	401K5633	R,CARBON 22H 5% 1/6W
R5600	404C1725	R,METAL 150K 1% 1/6W
R5601	404C1720	R,METAL 91K 1% 1/6W
R5602	404C1721	R,METAL 100K 1% 1/6W
R5603	404C1713	R,METAL 47K 1% 1/6W
R5604	404C1713	R,METAL 47K 1% 1/6W
R5605	404C1705	R,METAL 22K 1% 1/6W
R5606	404C1721	R,METAL 100K 1% 1/6W
R5607	401K5697	R,CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R5608	401K5633	R,CARBON 22H 5% 1/6W
R5613	401K5633	R,CARBON 22H 5% 1/6W
R5614	401K5685	R,CARBON 3.3K 5% 1/6W
R5615	404C1696	R,METAL 9.1K 1% 1/6W
R5616	401K5699	R,CARBON 12K 5% 1/6W
R5617	401K5699	R,CARBON 12K 5% 1/6W
ΔR601	79T06418	R,CEMENT 4.7H 7W
ΔR602	79T06357	R,CEMENT 4.7H 7W
R603	79T06431	R,CARBON 100KH 1/4W
R604	79T06431	R,CARBON 100KH 1/4W
R606	79T06432	R,CARBON 330KH 1/4W
R607	79T06432	R,CARBON 330KH 1/4W
R609	79T06439	R,METAL 10H 2W
R610	79T06440	R,METAL 82KH 2W
R611	79T06440	R,METAL 82KH 2W
ΔR612	79T06403	RESISTER 0.1H 2W
R613	79T06436	R,CARBON 4.7H 1/4W
R614	79T06253	R,CARBON 33H
R615	79T06253	R,CARBON 33H
R616	79T06253	R,CARBON 33H
R617	79T06253	R,CARBON 33H
R618	79T06448	R,METAL 240H 1/4W
R619	79T06424	R,CARBON 100H 1/4W
ΔR620	79T06437	R,FUSE 15H 1/4W
R621	79T05373	R,METAL 100K 2W
ΔR622	79T06428	R,CARBON 10H 1/4W
R623	79T06258	R,CARBON 330K 1/4W
R624	79T06258	R,CARBON 330K 1/4W
R631	79T06234	R,METAL 22H 1W
R632	79T06234	R,METAL 22H 1W
R633	79T06234	R,METAL 22H 1W
R634	79T06234	R,METAL 22H 1W
R636	79T06453	R,METAL 180KH 1/4W
R637	79T06446	R,METAL 180KH 1/4W
R638	79T06240	R,CARBON 47K 1/4W
R639	79T06266	R,CARBON 8.2K 1/4W
R640	79T06449	R,METAL 3.6KH 1/4W
R642	79T06452	R,METAL 6.2KH 1/4W
R643	79T06450	R,METAL 360H 1/4W
R644	79T06443	R,METAL 1.6KH 1/4W
R645	79T06451	R,METAL 390H 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R647	79T06456	R,CARBON 2.2H 1/4W
R648	79T06277	R,CARBON 4.7K 1/4W
R649	79T06277	R,CARBON 4.7K 1/4W
R650	79T06424	R,CARBON 100H 1/4W
R651	79T06430	R,CARBON 180KH 1/4W
R652	79T06430	R,CARBON 180KH 1/4W
R653	79T06430	R,CARBON 180KH 1/4W
R654	79T06313	R,CARBON 22K 1/4W
R655	79T06257	R,CARBON 10K 1/4W
R656	79T06425	R,CARBON 3.3KH 1/4W
R657	79T06257	R,CARBON 10K 1/4W
R658	79T06277	R,CARBON 4.7K 1/4W
R661	79T06438	R,METAL 27KH 1/4W
R662	79T06447	R,METAL 18KH 1/4W
R663	79T06445	R,METAL 100H 1/4W
R664	79T06267	R,CARBON 33K 1/4W
R665	79T06429	R,CARBON 15KH 1/4W
R666	79T06256	R,CARBON 100K 1/4W
R668	79T06424	R,CARBON 100H 1/4W
R671	79T06316	R,CARBON 470H 1/4W
R672	79T06424	R,CARBON 100H 1/4W
R673	79T06239	R,CARBON 1K 1/4W
R674	79T06319	R,CARBON 330H 1/4W
R681	79T06277	R,CARBON 4.7K 1/4W
R682	79T06316	R,CARBON 470H 1/4W
R683	79T06424	R,CARBON 100H 1/4W
ΔR684	79T06444	R,METAL 1.8KH 1/4W
R685	79T06277	R,CARBON 4.7K 1/4W
R686	79T06316	R,CARBON 470H 1/4W
R687	79T06316	R,CARBON 470H 1/4W
R688	79T06257	R,CARBON 10K 1/4W
R690	79T06257	R,CARBON 10K 1/4W
R691	79T06322	R,CARBON 18K 1/4W
R692	79T06322	R,CARBON 18K 1/4W
R693	79T06239	R,CARBON 1K 1/4W
R694	79T06277	R,CARBON 4.7K 1/4W
R695	79T06277	R,CARBON 4.7K 1/4W
R696	79T06239	R,CARBON 1K 1/4W
R7001	401K5633	R,CARBON 22H 5% 1/6W
ΔR7002	401G6109	R,CARBON 2.2H 5% 1/4W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R7003	401K5649	R. CARBON 100H 5% 1/6W
R7004	401K5671	R. CARBON 820H 5% 1/6W
R7005	401K5671	R. CARBON 820H 5% 1/6W
R7007	401K5649	R. CARBON 100H 5% 1/6W
R7009	401K5673	R. CARBON 1.0K 5% 1/6W
R701	404C1646	R. METAL 75H 1% 1/6W
R7010	401K5633	R. CARBON 22H 5% 1/6W
R7011	401K5713	R. CARBON 47K 5% 1/6W
R7012	401K5697	R. CARBON 10K 5% 1/6W
R7013	401K5697	R. CARBON 10K 5% 1/6W
△R7014	403T1135	R. METAL 27H 5% 1W
R7015	401K5697	R. CARBON 10K 5% 1/6W
R7016	401K5633	R. CARBON 22H 5% 1/6W
R7017	401K5649	R. CARBON 100H 5% 1/6W
R7019	401K5673	R. CARBON 1.0K 5% 1/6W
R702	401K5729	R. CARBON 220K 5% 1/6W
R7020	401K5673	R. CARBON 1.0K 5% 1/6W
R7021	401K5673	R. CARBON 1.0K 5% 1/6W
R7022	401K5633	R. CARBON 22H 5% 1/6W
R7023	401K5697	R. CARBON 10K 5% 1/6W
R7024	401K5697	R. CARBON 10K 5% 1/6W
R703	404C1646	R. METAL 75H 1% 1/6W
R704	401K5729	R. CARBON 220K 5% 1/6W
R705	404C1646	R. METAL 75H 1% 1/6W
R706	404C1646	R. METAL 75H 1% 1/6W
R707	401K5729	R. CARBON 220K 5% 1/6W
R708	401K5729	R. CARBON 220K 5% 1/6W
R709	404C1646	R. METAL 75H 1% 1/6W
R710	404C1646	R. METAL 75H 1% 1/6W
△R7101	401G6109	R. CARBON 2.2H 5% 1/4W
R7102	401K5697	R. CARBON 10K 5% 1/6W
R7103	401K5697	R. CARBON 10K 5% 1/6W
R7104	401K5669	R. CARBON 680H 5% 1/6W
R7105	401K5661	R. CARBON 330H 5% 1/6W
R7107	401K5697	R. CARBON 10K 5% 1/6W
R7108	401K5697	R. CARBON 10K 5% 1/6W
R7109	401K5697	R. CARBON 10K 5% 1/6W
R711	401K5729	R. CARBON 220K 5% 1/6W
R7110	401K5697	R. CARBON 10K 5% 1/6W
R7111	401K5697	R. CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7112	401K5673	R. CARBON 1.0K 5% 1/6W
R7113	401K5657	R. CARBON 220H 5% 1/6W
R7114	401K5677	R. CARBON 1.5K 5% 1/6W
R7115	401K5669	R. CARBON 680H 5% 1/6W
R7116	401K5669	R. CARBON 680H 5% 1/6W
R7117	401K5663	R. CARBON 390H 5% 1/6W
R7119	401K5663	R. CARBON 390H 5% 1/6W
R712	401K5729	R. CARBON 220K 5% 1/6W
R7121	401K5649	R. CARBON 100H 5% 1/6W
R7123	401K5673	R. CARBON 1.0K 5% 1/6W
R7124	401K5633	R. CARBON 22H 5% 1/6W
R7125	401K5713	R. CARBON 47K 5% 1/6W
R713	401K5649	R. CARBON 100H 5% 1/6W
R714	401K5649	R. CARBON 100H 5% 1/6W
R716	401K5697	R. CARBON 10K 5% 1/6W
△R717	40175147	R. CARBON 82H 5% 1/4W
R718	401K5697	R. CARBON 10K 5% 1/6W
R719	401K5649	R. CARBON 100H 5% 1/6W
R720	401K5649	R. CARBON 100H 5% 1/6W
△R7201	401G6125	R. CARBON 10H 5% 1/4W
R7202	401K5695	R. CARBON 8.2K 5% 1/6W
R7203	401K5685	R. CARBON 3.3K 5% 1/6W
R7204	401K5673	R. CARBON 1.0K 5% 1/6W
R7205	401K5667	R. CARBON 560H 5% 1/6W
R7206	401K5665	R. CARBON 470H 5% 1/6W
R7207	401K5685	R. CARBON 3.3K 5% 1/6W
R7208	401K5677	R. CARBON 1.5K 5% 1/6W
R7209	401K5659	R. CARBON 270H 5% 1/6W
R721	401K5649	R. CARBON 100H 5% 1/6W
R7210	401K5657	R. CARBON 220H 5% 1/6W
R7211	401K5681	R. CARBON 2.2K 5% 1/6W
R7212	401K5673	R. CARBON 1.0K 5% 1/6W
R7213	401K5657	R. CARBON 220H 5% 1/6W
R7214	401K5671	R. CARBON 820H 5% 1/6W
△R7215	401G6117	R. CARBON 4.7H 5% 1/4W
R7216	401K5697	R. CARBON 10K 5% 1/6W
R7217	401K5697	R. CARBON 10K 5% 1/6W
R7218	401K5673	R. CARBON 1.0K 5% 1/6W
R7219	401K5673	R. CARBON 1.0K 5% 1/6W
R722	401K5697	R. CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R7220	401K5691	R. CARBON 5.6K 5% 1/6W
R7221	401K5681	R. CARBON 2.2K 5% 1/6W
R7222	401K5673	R. CARBON 1.0K 5% 1/6W
R7223	401K5679	R. CARBON 1.8K 5% 1/6W
R7224	401K5673	R. CARBON 1.0K 5% 1/6W
R7225	401K5697	R. CARBON 10K 5% 1/6W
R7226	401K5673	R. CARBON 1.0K 5% 1/6W
R7227	401K5669	R. CARBON 680H 5% 1/6W
R7228	401K5725	R. CARBON 150K 5% 1/6W
R7229	401K5681	R. CARBON 2.2K 5% 1/6W
R723	401K5677	R. CARBON 1.5K 5% 1/6W
R7230	404C1705	R. METAL 22K 1% 1/6W
R7231	404C1689	R. METAL 4.7K 1% 1/6W
R7232	401K5673	R. CARBON 1.0K 5% 1/6W
R7233	401K5663	R. CARBON 390H 5% 1/6W
R7234	401K5667	R. CARBON 560H 5% 1/6W
R7235	401K5663	R. CARBON 390H 5% 1/6W
R7236	401K5657	R. CARBON 220H 5% 1/6W
R7237	401K5669	R. CARBON 680H 5% 1/6W
R7238	401K5673	R. CARBON 1.0K 5% 1/6W
R7239	401K5695	R. CARBON 8.2K 5% 1/6W
R7240	401K5685	R. CARBON 3.3K 5% 1/6W
R7241	404C1681	R. METAL 2.2K 1% 1/6W
R726	401K5649	R. CARBON 100H 5% 1/6W
R727	401K5649	R. CARBON 100H 5% 1/6W
R728	401K5649	R. CARBON 100H 5% 1/6W
R729	401K5697	R. CARBON 10K 5% 1/6W
R7301	401K5673	R. CARBON 1.0K 5% 1/6W
R7302	404C1669	R. METAL 680H 1% 1/6W
R7303	404C1669	R. METAL 680H 1% 1/6W
△R7304	401G6173	R. CARBON 1.0K 5% 1/4W
R732	401K5697	R. CARBON 10K 5% 1/6W
R733	401K5693	R. CARBON 6.8K 5% 1/6W
R734	401K5701	R. CARBON 15K 5% 1/6W
R735	401K5705	R. CARBON 22K 5% 1/6W
R736	401K5697	R. CARBON 10K 5% 1/6W
R737	401K5729	R. CARBON 220K 5% 1/6W
△R738	401G6101	R. CARBON 1.0H 5% 1/4W
R739	401K5721	R. CARBON 100K 5% 1/6W
R740	401K5697	R. CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
△R7401	401G6109	R. CARBON 2.2H 5% 1/4W
R7402	401K5689	R. CARBON 4.7K 5% 1/6W
R7403	401K5673	R. CARBON 1.0K 5% 1/6W
R7404	401K5649	R. CARBON 100H 5% 1/6W
R7408	401K5669	R. CARBON 680H 5% 1/6W
R7409	401K5663	R. CARBON 390H 5% 1/6W
R741	401K5673	R. CARBON 1.0K 5% 1/6W
R7410	401K5665	R. CARBON 470H 5% 1/6W
R7411	401K5663	R. CARBON 390H 5% 1/6W
R7412	401K5697	R. CARBON 10K 5% 1/6W
R7413	401K5697	R. CARBON 10K 5% 1/6W
R7414	401K5729	R. CARBON 220K 5% 1/6W
R7415	401K5673	R. CARBON 1.0K 5% 1/6W
R7416	401K5685	R. CARBON 3.3K 5% 1/6W
R7417	401K5693	R. CARBON 6.8K 5% 1/6W
R7418	401K5721	R. CARBON 100K 5% 1/6W
R7419	401C6759	R. CARBON 3.9M 5% 1/4W
R742	401K5673	R. CARBON 1.0K 5% 1/6W
R7421	401K5673	R. CARBON 1.0K 5% 1/6W
R7422	401K5673	R. CARBON 1.0K 5% 1/6W
R7423	401K5665	R. CARBON 470H 5% 1/6W
R7424	401K5679	R. CARBON 1.8K 5% 1/6W
R7425	401K5673	R. CARBON 1.0K 5% 1/6W
R7425	40105187	R. CARBON 3.9K 5% 1/6W
R7426	401K5659	R. CARBON 270H 5% 1/6W
R7427	401K5659	R. CARBON 270H 5% 1/6W
R7428	401K5659	R. CARBON 270H 5% 1/6W
△R7429	401G6125	R. CARBON 10H 5% 1/4W
R743	401K5697	R. CARBON 10K 5% 1/6W
R7430	401K5673	R. CARBON 1.0K 5% 1/6W
R7431	401K5665	R. CARBON 470H 5% 1/6W
R7432	401K5675	R. CARBON 1.2K 5% 1/6W
R7433	401K5663	R. CARBON 390H 5% 1/6W
R7434	401K5673	R. CARBON 1.0K 5% 1/6W
R7435	401K5673	R. CARBON 1.0K 5% 1/6W
R7436	401K5673	R. CARBON 1.0K 5% 1/6W
R7437	401K5665	R. CARBON 470H 5% 1/6W
R7438	401K5675	R. CARBON 1.2K 5% 1/6W
R7439	401K5663	R. CARBON 390H 5% 1/6W
R744	401K5697	R. CARBON 10K 5% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R7440	401K5673	R. CARBON 1.0K 5% 1/6W
R7441	401K5673	R. CARBON 1.0K 5% 1/6W
R7442	401K5673	R. CARBON 1.0K 5% 1/6W
R7443	401K5665	R. CARBON 470H 5% 1/6W
R7444	401K5675	R. CARBON 1.2K 5% 1/6W
R7445	401K5663	R. CARBON 390H 5% 1/6W
R7446	401K5673	R. CARBON 1.0K 5% 1/6W
R7447	401K5673	R. CARBON 1.0K 5% 1/6W
R7448	401K5633	R. CARBON 22H 5% 1/6W
R7449	401K5633	R. CARBON 22H 5% 1/6W
R745	401K5689	R. CARBON 4.7K 5% 1/6W
R7450	401K5633	R. CARBON 22H 5% 1/6W
R7451	401K5633	R. CARBON 22H 5% 1/6W
R7453	401K5691	R. CARBON 5.6K 5% 1/6W
R7454	401K5707	R. CARBON 27K 5% 1/6W
R7455	401K5711	R. CARBON 39K 5% 1/6W
ΔR7456	40371135	R. METAL 27H 5% 1W
R746	401K5689	R. CARBON 4.7K 5% 1/6W
R747	401K5649	R. CARBON 100H 5% 1/6W
R748	401K5649	R. CARBON 100H 5% 1/6W
R751	401K5729	R. CARBON 220K 5% 1/6W
R752	401K5673	R. CARBON 1.0K 5% 1/6W
R753	401K5729	R. CARBON 220K 5% 1/6W
R754	401K5673	R. CARBON 1.0K 5% 1/6W
R755	401K5729	R. CARBON 220K 5% 1/6W
R756	401K5673	R. CARBON 1.0K 5% 1/6W
R757	401K5729	R. CARBON 220K 5% 1/6W
R758	401K5673	R. CARBON 1.0K 5% 1/6W
R759	401K5731	R. CARBON 270K 5% 1/6W
R760	401K5731	R. CARBON 270K 5% 1/6W
R761	401K5731	R. CARBON 270K 5% 1/6W
R762	401K5731	R. CARBON 270K 5% 1/6W
R763	401K5681	R. CARBON 2.2K 5% 1/6W
R764	401K5649	R. CARBON 100H 5% 1/6W
R765	401K5681	R. CARBON 2.2K 5% 1/6W
R766	401K5649	R. CARBON 100H 5% 1/6W
R767	401K5697	R. CARBON 10K 5% 1/6W
R768	401K5697	R. CARBON 10K 5% 1/6W
R769	401K5673	R. CARBON 1.0K 5% 1/6W
R770	401K5673	R. CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R771	401H5697	R. CARBON 10K 5% 1/2W
R772	401H5697	R. CARBON 10K 5% 1/2W
ΔR773	401G6149	R. CARBON 100H 5% 1/4W
R780	401K5705	R. CARBON 22K 5% 1/6W
R781	401K5697	R. CARBON 10K 5% 1/6W
R8001	401K5697	R. CARBON 10K 5% 1/6W
R8002	401K5689	R. CARBON 4.7K 5% 1/6W
R8003	401K5653	R. CARBON 150H 5% 1/6W
R8004	401K5697	R. CARBON 10K 5% 1/6W
R8005	401K5689	R. CARBON 4.7K 5% 1/6W
R8006	401K5653	R. CARBON 150H 5% 1/6W
R8007	401K5697	R. CARBON 10K 5% 1/6W
R8008	401K5689	R. CARBON 4.7K 5% 1/6W
R8009	401K5653	R. CARBON 150H 5% 1/6W
R801	401K5729	R. CARBON 220K 5% 1/6W
R8010	401K5697	R. CARBON 10K 5% 1/6W
R8011	401K5689	R. CARBON 4.7K 5% 1/6W
R8012	401K5653	R. CARBON 150H 5% 1/6W
R8013	401K5697	R. CARBON 10K 5% 1/6W
R8014	401K5689	R. CARBON 4.7K 5% 1/6W
R8015	401K5653	R. CARBON 150H 5% 1/6W
R8016	401K5697	R. CARBON 10K 5% 1/6W
R8017	401K5689	R. CARBON 4.7K 5% 1/6W
R8018	401K5653	R. CARBON 150H 5% 1/6W
R8019	401K5685	R. CARBON 3.3K 5% 1/6W
R802	401K5729	R. CARBON 220K 5% 1/6W
R8020	401K5697	R. CARBON 10K 5% 1/6W
R8021	401K5653	R. CARBON 150H 5% 1/6W
R8022	401K5685	R. CARBON 3.3K 5% 1/6W
R8023	401K5697	R. CARBON 10K 5% 1/6W
R8024	401K5653	R. CARBON 150H 5% 1/6W
R8025	401K5685	R. CARBON 3.3K 5% 1/6W
R8026	401K5697	R. CARBON 10K 5% 1/6W
R8027	401K5653	R. CARBON 150H 5% 1/6W
R8028	401K5681	R. CARBON 2.2K 5% 1/6W
R8029	401K5673	R. CARBON 1.0K 5% 1/6W
R803	401K5729	R. CARBON 220K 5% 1/6W
R8030	401K5699	R. CARBON 12K 5% 1/6W
R8031	401K5697	R. CARBON 10K 5% 1/6W
R8032	401K5713	R. CARBON 47K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R8033	401K5713	R. CARBON 47K 5% 1/6W
ΔR8034	401G6125	R. CARBON 10H 5% 1/4W
R804	404K2646	R. METAL 75H 1% 1/4W
R805	404K2646	R. METAL 75H 1% 1/4W
R806	404K2646	R. METAL 75H 1% 1/4W
R807	404K2646	R. METAL 75H 1% 1/4W
R808	401K5729	R. CARBON 220K 5% 1/6W
R809	404K2646	R. METAL 75H 1% 1/4W
R810	401K5729	R. CARBON 220K 5% 1/6W
ΔR8101	40178161	R. CARBON 330H 5% 1/2W
R8102	401K5697	R. CARBON 10K 5% 1/6W
R8103	404C1677	R. METAL 1.5K 1% 1/6W
R8104	401K5673	R. CARBON 1.0K 5% 1/6W
R8105	401K5673	R. CARBON 1.0K 5% 1/6W
R8106	401K5697	R. CARBON 10K 5% 1/6W
R8107	401K5691	R. CARBON 5.6K 5% 1/6W
R8108	401K5673	R. CARBON 1.0K 5% 1/6W
R8109	404C1673	R. METAL 1.0K 1% 1/6W
R811	404K2646	R. METAL 75H 1% 1/4W
R8110	404C1699	R. METAL 12K 1% 1/6W
R8111	404C1693	R. METAL 6.8K 1% 1/6W
R8112	404C1665	R. METAL 470H 1% 1/6W
R8113	404C1681	R. METAL 2.2K 1% 1/6W
R8114	401K5697	R. CARBON 10K 5% 1/6W
R812	401K5729	R. CARBON 220K 5% 1/6W
R813	404K2646	R. METAL 75H 1% 1/4W
R814	401K5729	R. CARBON 220K 5% 1/6W
R815	404K2646	R. METAL 75H 1% 1/4W
R816	401K5729	R. CARBON 220K 5% 1/6W
R817	401K5691	R. CARBON 5.6K 5% 1/6W
R818	401K5729	R. CARBON 220K 5% 1/6W
R819	401K5691	R. CARBON 5.6K 5% 1/6W
R820	401K5729	R. CARBON 220K 5% 1/6W
ΔR8201	401G6109	R. CARBON 2.2H 5% 1/4W
R8202	404C1677	R. METAL 1.5K 1% 1/6W
R8203	404C1677	R. METAL 1.5K 1% 1/6W
R8204	404C1677	R. METAL 1.5K 1% 1/6W
R8205	401K5713	R. CARBON 47K 5% 1/6W
R8206	401K5713	R. CARBON 47K 5% 1/6W
R821	401K5685	R. CARBON 3.3K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R822	401K5685	R. CARBON 3.3K 5% 1/6W
R823	401K5685	R. CARBON 3.3K 5% 1/6W
R824	401K5677	R. CARBON 1.5K 5% 1/6W
R825	401K5685	R. CARBON 3.3K 5% 1/6W
R826	401K5685	R. CARBON 3.3K 5% 1/6W
R827	401K5677	R. CARBON 1.5K 5% 1/6W
R828	401K5669	R. CARBON 680H 5% 1/6W
R829	401K5685	R. CARBON 3.3K 5% 1/6W
R830	401K5697	R. CARBON 10K 5% 1/6W
R8301	401C6661	R. CARBON 330H 5% 1/4W
R8302	401C6661	R. CARBON 330H 5% 1/4W
R8303	401C6661	R. CARBON 330H 5% 1/4W
R8304	401K5633	R. CARBON 22H 5% 1/6W
R8305	401K5633	R. CARBON 22H 5% 1/6W
R8306	401K5633	R. CARBON 22H 5% 1/6W
ΔR8307	401G6125	R. CARBON 10H 5% 1/4W
ΔR8308	401G6125	R. CARBON 10H 5% 1/4W
ΔR8309	401G6125	R. CARBON 10H 5% 1/4W
R831	401K5697	R. CARBON 10K 5% 1/6W
R8310	401K5697	R. CARBON 10K 5% 1/6W
R8311	401K5697	R. CARBON 10K 5% 1/6W
R8312	401K5697	R. CARBON 10K 5% 1/6W
R8313	404C1697	R. METAL 10K 1% 1/6W
R8314	404C1697	R. METAL 10K 1% 1/6W
R8315	404C1697	R. METAL 10K 1% 1/6W
R8316	401K5729	R. CARBON 220K 5% 1/6W
R8317	401K5729	R. CARBON 220K 5% 1/6W
R8318	401K5729	R. CARBON 220K 5% 1/6W
R8319	401K5693	R. CARBON 6.8K 5% 1/6W
ΔR832	401G6109	R. CARBON 2.2H 5% 1/4W
R8320	401K5693	R. CARBON 6.8K 5% 1/6W
R8321	401K5693	R. CARBON 6.8K 5% 1/6W
R8322	401K5673	R. CARBON 1.0K 5% 1/6W
R8323	401K5673	R. CARBON 1.0K 5% 1/6W
R8324	401K5673	R. CARBON 1.0K 5% 1/6W
ΔR8325	401G6125	R. CARBON 10H 5% 1/4W
R8326	404C1697	R. METAL 10K 1% 1/6W
R8327	404C1711	R. METAL 39K 1% 1/6W
R8328	404C1697	R. METAL 10K 1% 1/6W
R8329	404C1697	R. METAL 10K 1% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R833	401K5649	R. CARBON 100H 5% 1/6W
R8330	404C1697	R. METAL 10K 1% 1/6W
R8331	404C1673	R. METAL 1.0K 1% 1/6W
R8332	401K5697	R. CARBON 10K 5% 1/6W
R8333	401K5697	R. CARBON 10K 5% 1/6W
R834	401K5649	R. CARBON 100H 5% 1/6W
R835	401K5649	R. CARBON 100H 5% 1/6W
R836	401K5649	R. CARBON 100H 5% 1/6W
R838	401K5649	R. CARBON 100H 5% 1/6W
R839	401K5649	R. CARBON 100H 5% 1/6W
R840	404C1691	R. METAL 5.6K 1% 1/6W
R8401	401C6665	R. CARBON 470H 5% 1/4W
R8402	401C6665	R. CARBON 470H 5% 1/4W
R8403	401C6665	R. CARBON 470H 5% 1/4W
R8404	401K5657	R. CARBON 220H 5% 1/6W
R8405	401K5657	R. CARBON 220H 5% 1/6W
R8406	401K5657	R. CARBON 220H 5% 1/6W
△R8407	401G6109	R. CARBON 2.2H 5% 1/4W
△R8408	401G6109	R. CARBON 2.2H 5% 1/4W
△R8409	401G6109	R. CARBON 2.2H 5% 1/4W
R841	404C1691	R. METAL 5.6K 1% 1/6W
R8410	401K5673	R. CARBON 1.0K 5% 1/6W
R8411	401K5673	R. CARBON 1.0K 5% 1/6W
R8412	401K5673	R. CARBON 1.0K 5% 1/6W
R8413	401C6665	R. CARBON 470H 5% 1/4W
R8414	401C6665	R. CARBON 470H 5% 1/4W
R8415	401C6665	R. CARBON 470H 5% 1/4W
R8416	401K5649	R. CARBON 100H 5% 1/6W
R8417	401K5649	R. CARBON 100H 5% 1/6W
R8418	401K5649	R. CARBON 100H 5% 1/6W
R8419	401H5653	R. CARBON 150H 5% 1/2W
R842	401K5683	R. CARBON 2.7K 5% 1/6W
R8420	401H5653	R. CARBON 150H 5% 1/2W
R8421	401H5653	R. CARBON 150H 5% 1/2W
R8422	401K5657	R. CARBON 220H 5% 1/6W
R8423	401K5657	R. CARBON 220H 5% 1/6W
R8424	401K5657	R. CARBON 220H 5% 1/6W
R8425	401K5665	R. CARBON 470H 5% 1/6W
R8426	401K5665	R. CARBON 470H 5% 1/6W
R8427	401K5665	R. CARBON 470H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R8428	401C6665	R. CARBON 470H 5% 1/4W
R8429	401C6665	R. CARBON 470H 5% 1/4W
R843	401K5683	R. CARBON 2.7K 5% 1/6W
R8430	401C6665	R. CARBON 470H 5% 1/4W
R8434	401K5689	R. CARBON 4.7K 5% 1/6W
R8435	401K5689	R. CARBON 4.7K 5% 1/6W
R8436	401K5689	R. CARBON 4.7K 5% 1/6W
R8437	404C1663	R. METAL 390H 1% 1/6W
R8438	404C1663	R. METAL 390H 1% 1/6W
R8439	404C1663	R. METAL 390H 1% 1/6W
R844	401K5681	R. CARBON 2.2K 5% 1/6W
R8440	404C1693	R. METAL 6.8K 1% 1/6W
R8441	404C1693	R. METAL 6.8K 1% 1/6W
R8442	404C1693	R. METAL 6.8K 1% 1/6W
R8443	404C1691	R. METAL 5.6K 1% 1/6W
R8444	404C1691	R. METAL 5.6K 1% 1/6W
R8445	404C1691	R. METAL 5.6K 1% 1/6W
R8446	401H5671	R. CARBON 820H 5% 1/2W
R8447	401H5671	R. CARBON 820H 5% 1/2W
R8448	401H5671	R. CARBON 820H 5% 1/2W
R8449	401K5649	R. CARBON 100H 5% 1/6W
R845	401K5685	R. CARBON 3.3K 5% 1/6W
R8450	401K5649	R. CARBON 100H 5% 1/6W
R8451	401K5649	R. CARBON 100H 5% 1/6W
R8452	401K5649	R. CARBON 100H 5% 1/6W
R8453	401K5649	R. CARBON 100H 5% 1/6W
R8454	401K5649	R. CARBON 100H 5% 1/6W
R8455	401K5629	R. CARBON 15H 5% 1/6W
R8456	401K5629	R. CARBON 15H 5% 1/6W
R8457	401K5629	R. CARBON 15H 5% 1/6W
R8458	401K5629	R. CARBON 15H 5% 1/6W
R8459	401K5629	R. CARBON 15H 5% 1/6W
R846	401K5691	R. CARBON 5.6K 5% 1/6W
R8460	401K5629	R. CARBON 15H 5% 1/6W
R8461	401C6633	R. CARBON 22H 5% 1/4W
R8462	401C6633	R. CARBON 22H 5% 1/4W
R8463	401C6633	R. CARBON 22H 5% 1/4W
△R8464	401G6125	R. CARBON 10H 5% 1/4W
△R8465	401G6125	R. CARBON 10H 5% 1/4W
△R8466	401G6125	R. CARBON 10H 5% 1/4W

SYMBOL	PARTS NO	DESCRIPTION
R8467	404C1667	R. METAL 560H 1% 1/6W
R8468	404C1667	R. METAL 560H 1% 1/6W
R8469	404C1667	R. METAL 560H 1% 1/6W
R847	401K5691	R. CARBON 5.6K 5% 1/6W
R848	401K5691	R. CARBON 5.6K 5% 1/6W
R849	401K5701	R. CARBON 15K 5% 1/6W
R850	401K5689	R. CARBON 4.7K 5% 1/6W
R8501	401K5673	R. CARBON 1.0K 5% 1/6W
R8502	401K5689	R. CARBON 4.7K 5% 1/6W
△R8503	40178165	R. CARBON 470H 5% 1/2W
R8504	401K5705	R. CARBON 22K 5% 1/6W
R8505	401C6649	R. CARBON 100H 5% 1/4W
R851	401K5721	R. CARBON 100K 5% 1/6W
R852	401K5697	R. CARBON 10K 5% 1/6W
R853	401K5697	R. CARBON 10K 5% 1/6W
△R854	401G6125	R. CARBON 10H 5% 1/4W
R855	401K5697	R. CARBON 10K 5% 1/6W
R856	401K5697	R. CARBON 10K 5% 1/6W
R857	401K5667	R. CARBON 560H 5% 1/6W
R858	401K5683	R. CARBON 2.7K 5% 1/6W
R859	401K5681	R. CARBON 2.2K 5% 1/6W
R860	401K5697	R. CARBON 10K 5% 1/6W
R861	401K5679	R. CARBON 1.8K 5% 1/6W
△R8701	401G6125	R. CARBON 10H 5% 1/4W
R8702	401K5703	R. CARBON 18K 5% 1/6W
R8703	401K5633	R. CARBON 22H 5% 1/6W
R8706	401K5715	R. CARBON 56K 5% 1/6W
R8707	404C1697	R. METAL 10K 1% 1/6W
R8708	404C1707	R. METAL 27K 1% 1/6W
R8709	404C1697	R. METAL 10K 1% 1/6W
△R871	401G6133	R. CARBON 22H 5% 1/4W
R8710	401K5675	R. CARBON 1.2K 5% 1/6W
R8711	401K5687	R. CARBON 3.9K 5% 1/6W
R8712	401K5659	R. CARBON 270H 5% 1/6W
R8713	401K5661	R. CARBON 330H 5% 1/6W
R8714	401K5715	R. CARBON 56K 5% 1/6W
R8715	404C1699	R. METAL 12K 1% 1/6W
R8716	404C1675	R. METAL 1.2K 1% 1/6W
R8717	401K5695	R. CARBON 8.2K 5% 1/6W
R8718	401K5697	R. CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R8719	401K5697	R. CARBON 10K 5% 1/6W
R872	404C1681	R. METAL 2.2K 1% 1/6W
R8720	401K5695	R. CARBON 8.2K 5% 1/6W
R8721	404C1691	R. METAL 5.6K 1% 1/6W
R8722	401K5633	R. CARBON 22H 5% 1/6W
R8723	404C1693	R. METAL 6.8K 1% 1/6W
△R8724	401G6117	R. CARBON 4.7H 5% 1/4W
R8725	401K5723	R. CARBON 120K 5% 1/6W
R8726	401K5713	R. CARBON 47K 5% 1/6W
R8727	401K5649	R. CARBON 100H 5% 1/6W
R8728	401K5691	R. CARBON 5.6K 5% 1/6W
R8729	401K5713	R. CARBON 47K 5% 1/6W
R873	404C1681	R. METAL 2.2K 1% 1/6W
R8730	401K5691	R. CARBON 5.6K 5% 1/6W
R874	404C1673	R. METAL 1.0K 1% 1/6W
R875	404C1691	R. METAL 5.6K 1% 1/6W
R876	404C1693	R. METAL 6.8K 1% 1/6W
R877	404C1679	R. METAL 1.8K 1% 1/6W
R878	404C1689	R. METAL 4.7K 1% 1/6W
R879	404C1695	R. METAL 8.2K 1% 1/6W
R880	404C1697	R. METAL 10K 1% 1/6W
R8806	404C1697	R. METAL 10K 1% 1/6W
R8807	401K5633	R. CARBON 22H 5% 1/6W
R881	404C1695	R. METAL 8.2K 1% 1/6W
R882	404C1697	R. METAL 10K 1% 1/6W
R883	404C1695	R. METAL 8.2K 1% 1/6W
R884	404C1697	R. METAL 10K 1% 1/6W
R885	401K5729	R. CARBON 220K 5% 1/6W
R886	401K5729	R. CARBON 220K 5% 1/6W
R891	401K5633	R. CARBON 22H 5% 1/6W
R892	401K5633	R. CARBON 22H 5% 1/6W
R893	401K5633	R. CARBON 22H 5% 1/6W
R894	401K5707	R. CARBON 27K 5% 1/6W
R895	401K5713	R. CARBON 47K 5% 1/6W
R896A	401K5649	R. CARBON 100H 5% 1/6W
R897	40178159	R. CARBON 270H 5% 1/2W
R9001	401K5699	R. CARBON 12K 5% 1/6W
R9002	401K5705	R. CARBON 22K 5% 1/6W
R9003	401K5677	R. CARBON 1.5K 5% 1/6W
R9004	401K5701	R. CARBON 15K 5% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R9005	401K5697	R. CARBON 10K 5% 1/6W
R9006	401K5707	R. CARBON 27K 5% 1/6W
R9007	401K5709	R. CARBON 33K 5% 1/6W
R9008	401K5697	R. CARBON 10K 5% 1/6W
R9009	401K5689	R. CARBON 4.7K 5% 1/6W
ΔR901	40399085	R. METAL 5.6K 5% 7W
R9010	401K5709	R. CARBON 33K 5% 1/6W
R9011	401K5675	R. CARBON 1.2K 5% 1/6W
R9012	401K5673	R. CARBON 1.0K 5% 1/6W
R9013	401K5703	R. CARBON 18K 5% 1/6W
R9014	401K5693	R. CARBON 6.8K 5% 1/6W
R9015	404C1669	R. METAL 680H 1% 1/6W
R9016	404C1675	R. METAL 1.2K 1% 1/6W
R9016B	404C1681	R. METAL 2.2K 1% 1/6W
R9017	404C1683	R. METAL 2.7K 1% 1/6W
R9018	404C1703	R. METAL 18K 1% 1/6W
R9019	404C1705	R. METAL 22K 1% 1/6W
ΔR902	40399085	R. METAL 5.6K 5% 7W
R9020	404C1661	R. METAL 330H 1% 1/6W
R9020B	404C1661	R. METAL 330H 1% 1/6W
R9021	404C1657	R. METAL 220H 1% 1/6W
R9022	404C1686	R. METAL 3.6K 1% 1/6W
R9023	401K5697	R. CARBON 10K 5% 1/6W
R9024	401K5697	R. CARBON 10K 5% 1/6W
R9025	404C1713	R. METAL 47K 1% 1/6W
R9026	404C1721	R. METAL 100K 1% 1/6W
R9027	404C1714	R. METAL 51K 1% 1/6W
R9028	404C1686	R. METAL 3.6K 1% 1/6W
R9029	404C1719	R. METAL 82K 1% 1/6W
ΔR903	40399085	R. METAL 5.6K 5% 7W
R9030	401K5701	R. CARBON 15K 5% 1/6W
R9031	404C1725	R. METAL 150K 1% 1/6W
R9032	404C1719	R. METAL 82K 1% 1/6W
R9033	404C1719	R. METAL 82K 1% 1/6W
R9034	404C1721	R. METAL 100K 1% 1/6W
R9035	404C1717	R. METAL 68K 1% 1/6W
R9036	404C1703	R. METAL 18K 1% 1/6W
R9037	404C1729	R. METAL 220K 1% 1/6W
R9038	404C1703	R. METAL 18K 1% 1/6W
R9039	401K5673	R. CARBON 1.0K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
ΔR904	40399085	R. METAL 5.6K 5% 7W
R9040	404C1718	R. METAL 75K 1% 1/6W
R9041	401K5697	R. CARBON 10K 5% 1/6W
R9042	401K5693	R. CARBON 6.8K 5% 1/6W
R9043	401K5659	R. CARBON 270H 5% 1/6W
R9044	401K5697	R. CARBON 10K 5% 1/6W
R9045	401K5697	R. CARBON 10K 5% 1/6W
R9046	401K5691	R. CARBON 5.6K 5% 1/6W
R9047	401K5697	R. CARBON 10K 5% 1/6W
ΔR9048	40371163	R. METAL 390H 5% 1W
R9049	401K5633	R. CARBON 22H 5% 1/6W
ΔR905	40399085	R. METAL 5.6K 5% 7W
R9050	401K5707	R. CARBON 27K 5% 1/6W
R9052	401K5661	R. CARBON 330H 5% 1/6W
R9053	401K5689	R. CARBON 4.7K 5% 1/6W
R9054	404C1713	R. METAL 47K 1% 1/6W
R9055	404C1699	R. METAL 12K 1% 1/6W
R9056	404C1719	R. METAL 82K 1% 1/6W
R9057	401K5677	R. CARBON 1.5K 5% 1/6W
R9058	401K5697	R. CARBON 10K 5% 1/6W
R9059	404C1673	R. METAL 1.0K 1% 1/6W
ΔR906	40399085	R. METAL 5.6K 5% 7W
R9060	404C1698	R. METAL 11K 1% 1/6W
R9061	404C1673	R. METAL 1.0K 1% 1/6W
R9062	404C1698	R. METAL 11K 1% 1/6W
R9063	404C1698	R. METAL 11K 1% 1/6W
R9064	404C1673	R. METAL 1.0K 1% 1/6W
R9065	401K5673	R. CARBON 1.0K 5% 1/6W
R9066	401K5633	R. CARBON 22H 5% 1/6W
R9068	401K5633	R. CARBON 22H 5% 1/6W
R9069	401K5633	R. CARBON 22H 5% 1/6W
R907	401C6633	R. CARBON 22H 5% 1/4W
R9070	401K5633	R. CARBON 22H 5% 1/6W
ΔR9071	401G6125	R. CARBON 10H 5% 1/4W
R9072	401K5689	R. CARBON 4.7K 5% 1/6W
R9073	401K5681	R. CARBON 2.2K 5% 1/6W
R9074	401K5681	R. CARBON 2.2K 5% 1/6W
R9075	401K5693	R. CARBON 6.8K 5% 1/6W
R9076	404C1691	R. METAL 5.6K 1% 1/6W
R9077	401K5657	R. CARBON 220H 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R9078	404C1681	R. METAL 2.2K 1% 1/6W
R9079	401K5715	R. CARBON 56K 5% 1/6W
R908	401C6633	R. CARBON 22H 5% 1/4W
R9080	401C6761	R. CARBON 4.7M 5% 1/4W
R9081	401K5677	R. CARBON 1.5K 5% 1/6W
R9082	401K5697	R. CARBON 10K 5% 1/6W
R9083	404C1713	R. METAL 47K 1% 1/6W
R9084	404C1699	R. METAL 12K 1% 1/6W
R9085	404C1719	R. METAL 82K 1% 1/6W
R9086	404C1686	R. METAL 3.6K 1% 1/6W
R9087	404C1733	R. METAL 330K 1% 1/6W
R909	401C6633	R. CARBON 22H 5% 1/4W
R910	401C6633	R. CARBON 22H 5% 1/4W
R911	401C6633	R. CARBON 22H 5% 1/4W
R912	401C6633	R. CARBON 22H 5% 1/4W
R913	401H5661	R. CARBON 330H 5% 1/2W
R914	401H5661	R. CARBON 330H 5% 1/2W
R915	401H5661	R. CARBON 330H 5% 1/2W
R916	401H5665	R. CARBON 470H 5% 1/2W
R917	401H5665	R. CARBON 470H 5% 1/2W
R918	401H5665	R. CARBON 470H 5% 1/2W
R9182	401K5633	R. CARBON 22H 5% 1/6W
R9183	401K5633	R. CARBON 22H 5% 1/6W
R9184	401K5633	R. CARBON 22H 5% 1/6W
ΔR9185	401G6173	R. CARBON 1.0K 5% 1/4W
R919	401K5671	R. CARBON 820H 5% 1/6W
R920	401K5671	R. CARBON 820H 5% 1/6W
R9209	404C1709	R. METAL 33K 1% 1/6W
R921	401K5671	R. CARBON 820H 5% 1/6W
R9210	404C1703	R. METAL 18K 1% 1/6W
R9216	404C1703	R. METAL 18K 1% 1/6W
R9217	404C1719	R. METAL 82K 1% 1/6W
R9218	404C1717	R. METAL 68K 1% 1/6W
R9219	404C1707	R. METAL 27K 1% 1/6W
R922	401K5649	R. CARBON 100H 5% 1/6W
R9220	404C1713	R. METAL 47K 1% 1/6W
R9221	404C1713	R. METAL 47K 1% 1/6W
R9222	404C1711	R. METAL 39K 1% 1/6W
R9223	404C1709	R. METAL 33K 1% 1/6W
R9224	401K5697	R. CARBON 10K 5% 1/6W

SYMBOL	PARTS NO	DESCRIPTION
R9225	401K5697	R. CARBON 10K 5% 1/6W
R9226	401K5745	R. CARBON 1.0M 5% 1/6W
R9227	401K5723	R. CARBON 120K 5% 1/6W
R9229	401K5705	R. CARBON 22K 5% 1/6W
R923	401K5649	R. CARBON 100H 5% 1/6W
R9230	401K5705	R. CARBON 22K 5% 1/6W
R9231	404C1679	R. METAL 1.8K 1% 1/6W
R9232	404C1705	R. METAL 22K 1% 1/6W
R9233	404C1707	R. METAL 27K 1% 1/6W
R9234	404C1695	R. METAL 8.2K 1% 1/6W
R9235	404C1703	R. METAL 18K 1% 1/6W
R9236	401K5721	R. CARBON 100K 5% 1/6W
R9237	401K5745	R. CARBON 1.0M 5% 1/6W
R9238	401K5709	R. CARBON 33K 5% 1/6W
R9239	404C1699	R. METAL 12K 1% 1/6W
R924	401K5649	R. CARBON 100H 5% 1/6W
R9240	404C1726	R. METAL 160K 1% 1/6W
R9241	401K5697	R. CARBON 10K 5% 1/6W
R9242	401K5695	R. CARBON 8.2K 5% 1/6W
R9243	401K5685	R. CARBON 3.3K 5% 1/6W
R9244	404C1715	R. METAL 56K 1% 1/6W
R9245	404C1703	R. METAL 18K 1% 1/6W
R9248	401K5699	R. CARBON 12K 5% 1/6W
R9249	401K5737	R. CARBON 470K 5% 1/6W
R925	401K5649	R. CARBON 100H 5% 1/6W
R9250	404C1697	R. METAL 10K 1% 1/6W
R9250B	404C1693	R. METAL 6.8K 1% 1/6W
R9251	401K5687	R. CARBON 3.9K 5% 1/6W
R926	401K5649	R. CARBON 100H 5% 1/6W
R927	401K5649	R. CARBON 100H 5% 1/6W
R928	401C6665	R. CARBON 470H 5% 1/4W
R929	401C6665	R. CARBON 470H 5% 1/4W
R930	401C6665	R. CARBON 470H 5% 1/4W
ΔR931	40371153	R. METAL 150H 5% 1W
ΔR932	40371153	R. METAL 150H 5% 1W
ΔR933	40371153	R. METAL 150H 5% 1W
R937	401K5647	R. CARBON 82H 5% 1/6W
R938	401K5647	R. CARBON 82H 5% 1/6W
R939	401K5647	R. CARBON 82H 5% 1/6W
R940	401K5697	R. CARBON 10K 5% 1/6W

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
R941	401K5697	R. CARBON 10K 5% 1/6W
R942	401K5697	R. CARBON 10K 5% 1/6W
R943	401K5697	R. CARBON 10K 5% 1/6W
R944	401K5697	R. CARBON 10K 5% 1/6W
R945	401K5697	R. CARBON 10K 5% 1/6W
R946	401H5721	R. CARBON 100K 5% 1/2W
△R947	401T5141	R. CARBON 47H 5% 1/4W
△R948	403T1149	R. METAL 100H 5% 1W
△R949	403T1149	R. METAL 100H 5% 1W
△R950	403T1149	R. METAL 100H 5% 1W

*** CAPACITORS ***

C1001	430B9016	C. ELEC 10V 100UF
C1003	421D6009	C. CERAMIC 25V 0.1UF
C1004	430B9016	C. ELEC 10V 100UF
C1006	430B9062	C. ELEC 50V 2.2UF
C1007	430B9029	C. ELEC 16V 100UF
C1008	421D6009	C. CERAMIC 25V 0.1UF
C1009	423A2033	C. CERAMIC 50V 33PF
C1010	421D6009	C. CERAMIC 25V 0.1UF
C1011	421D6009	C. CERAMIC 25V 0.1UF
C1012	430B9016	C. ELEC 10V 100UF
C1013	421D6009	C. CERAMIC 25V 0.1UF
C1014	430B9016	C. ELEC 10V 100UF
C1015	421D6009	C. CERAMIC 25V 0.1UF
C1016	430B9016	C. ELEC 10V 100UF
C1017	423A2015	C. CERAMIC 50V 10PF
C1018	423A2015	C. CERAMIC 50V 10PF
C1019	421D6009	C. CERAMIC 25V 0.1UF
C1020	430B8007	C. ELEC 6.3V 1000UF
C1021	430B8007	C. ELEC 6.3V 1000UF
C1022	430B6019	C. ELEC 10V 470UF
C1023	430B9016	C. ELEC 10V 100UF
C1024	421D6009	C. CERAMIC 25V 0.1UF
C1025	430B9065	C. ELEC 50V 10UF
C1026	421A0425	C. CERAMIC 50V 0.01UF
C1027	421A0425	C. CERAMIC 50V 0.01UF
C1028	430C8715	C. ELEC 50V 22UF

SYMBOL	PARTS NO	DESCRIPTION
C4011	421D6009	C. CERAMIC 25V 0.1UF
C4012	421D6009	C. CERAMIC 25V 0.1UF
C4013	421D6009	C. CERAMIC 25V 0.1UF
C4015	435A8709	C. TANTALUM 35V 2.2UF
C4016	421D6009	C. CERAMIC 25V 0.1UF
C4017	421D6009	C. CERAMIC 25V 0.1UF
C4018	428B3025	C. METAL FILM 50V 1.0UF
C4021	430B9039	C. ELEC 25V 22UF
C4022	421D6009	C. CERAMIC 25V 0.1UF
C4023	421C0225	C. CERAMIC 50V 0.01UF
C4024	4302F034	C. ELEC 16V 2200UF
C4025	427F4622	C. FILM 50V 0.056UF
C4026	427F4610	C. FILM 50V 5600PF
C4501	4320E402	C. ELEC 200V 10UF
C4502	4302J074	C. ELEC 50V 2200UF
C4503	430B9516	C. ELEC 160V 10UF
C4505	42203341	C. CERAMIC 500V 68PF
C4509	4302J073	C. ELEC 50V 1000UF
C4510	421C0225	C. CERAMIC 50V 0.01UF
C4511	430B9053	C. ELEC 35V 47UF
C4512	430B9039	C. ELEC 25V 22UF
C4513	42840149	C. METAL 250V 2.2UF 5%
C4514	430B6071	C. ELEC 50V 330UF
C5040	433A7013	C. ELEC 16V 47UF
C5041	4303J214	C. ELEC 200V 4.7UF
C5042	427F4621	C. FILM 50V 0.047UF
C5043	427F4621	C. FILM 50V 0.047UF
C5044	430B9066	C. ELEC 50V 22UF
C5045	42899111	C. METAL 200V 1.2UF
C5048	430B9041	C. ELEC 25V 47UF
C5049	421D6009	C. CERAMIC 25V 0.1UF
C5053	4303J214	C. ELEC 200V 4.7UF
C5054	42839022	C. METAL FILM 250V 0.1UF
C5055	430B9066	C. ELEC 50V 22UF
C5056	427F4621	C. FILM 50V 0.047UF
C5057	427F4621	C. FILM 50V 0.047UF
C5058	4320E402	C. ELEC 200V 10UF
C5059	42839673	C. METAL 200V 4.7UF
C5060	430B9062	C. ELEC 50V 2.2UF
C5061	42703451	C. FILM 630V 1000PF

SYMBOL	PARTS NO	DESCRIPTION
C2001	430B9016	C. ELEC 10V 100UF
△C2002	430B9068	C. ELEC 50V 47UF
△C2003	430B9064	C. ELEC 50V 4.7UF
△C2004	430B9041	C. ELEC 25V 47UF
△C2005	430B9066	C. ELEC 50V 22UF
C201	421D6013	C. CERAMIC 50V 0.1UF
C202	421D6009	C. CERAMIC 25V 0.1UF
C203	430B9042	C. ELEC 25V 100UF
C204	430B6032	C. ELEC 16V 470UF
C205	430B6032	C. ELEC 16V 470UF
C206	4302J029	C. ELEC 16V 100UF
C207	430B6032	C. ELEC 16V 470UF
C301	430B6032	C. ELEC 16V 470UF
C302	427F4675	C. FILM 50V 0.1UF
C303	430B6032	C. ELEC 16V 470UF
C304	427F4675	C. FILM 50V 0.1UF
C305	4302J112	C. ELEC 35V 4700UF
C306	430B9054	C. ELEC 35V 100UF
C307	430B9053	C. ELEC 35V 47UF
C309	427F4609	C. FILM 50V 4700PF
C311	427F4609	C. FILM 50V 4700PF
C312	430B9053	C. ELEC 35V 47UF
C313	421D6009	C. CERAMIC 25V 0.1UF
C314	4302F034	C. ELEC 16V 2200UF
C315	430B9064	C. ELEC 50V 4.7UF
C316	421D6009	C. CERAMIC 25V 0.1UF
C317	433A7045	C. ELEC 50V 4.7UF
C318	433A7045	C. ELEC 50V 4.7UF
C319	430B9064	C. ELEC 50V 4.7UF
C320	430B9064	C. ELEC 50V 4.7UF
C323	430B9065	C. ELEC 50V 10UF
C4001	427F4601	C. FILM 50V 1000PF
C4002	433A7021	C. ELEC 25V 10UF
C4003	427F4625	C. FILM 50V 0.1UF
C4004	421C0225	C. CERAMIC 50V 0.01UF
C4005	421C0225	C. CERAMIC 50V 0.01UF
C4006	421D6009	C. CERAMIC 25V 0.1UF
C4007	430B9041	C. ELEC 25V 47UF
C4009	430B9041	C. ELEC 25V 47UF
C4010	430B9041	C. ELEC 25V 47UF

SYMBOL	PARTS NO	DESCRIPTION
C5062	430B9532	C. ELEC 200V 1.0UF
C5063	430B9041	C. ELEC 25V 47UF
C5064	430B9068	C. ELEC 50V 47UF
C5065	430B9066	C. ELEC 50V 22UF
C5066	427F4601	C. FILM 50V 1000PF
C5067	4309J102	C. ELEC 35V 100UF
C5068	4203J575	C. CERAMIC 500V 0.01UF
C5073	427F4629	C. FILM 50V 0.22UF
C5074	427F4629	C. FILM 50V 0.22UF
△C5075	42839706	C. METAL 400V 0.24UF
△C5078	42839633	C. METAL 400V 0.2UF
△C5079	42839603	C. METAL FILM 400V 0.15UF
△C5080	42839605	C. METAL 400V 0.22UF
△C5081	42839608	C. METAL 400V 0.33UF
△C5082	42899120	C. METAL 200V 2UF
C5083	421D6009	C. CERAMIC 25V 0.1UF
C5084	421D6009	C. CERAMIC 25V 0.1UF
C5085	421D6009	C. CERAMIC 25V 0.1UF
C5086	421D6009	C. CERAMIC 25V 0.1UF
C5087	421D6009	C. CERAMIC 25V 0.1UF
C5088	421D6009	C. CERAMIC 25V 0.1UF
C5089	430B9041	C. ELEC 25V 47UF
C5090	430B9536	C. ELEC 200V 10UF
C5091	420C9563	C. CERAMIC 500V 1000PF
C5092	42839022	C. METAL FILM 250V 0.1UF
C5093	430B9041	C. ELEC 25V 47UF
C5094	430B9061	C. ELEC 50V 1.0UF
C5095	430B9552	C. ELEC 250V 1.0UF
C5096	4201J575	C. CERAMIC 500V 0.01UF
C5098	421D6009	C. CERAMIC 25V 0.1UF
C5099	430B9552	C. ELEC 250V 1.0UF
△C5100	42899130	C. METAL FILM 2KV 0.01UF
C5103	430B9029	C. ELEC 16V 100UF
C5104	421D6009	C. CERAMIC 25V 0.1UF
C5105	430B9039	C. ELEC 25V 22UF
C5106	430B9068	C. ELEC 50V 47UF
C5109	421C0225	C. CERAMIC 50V 0.01UF
△C5110	42883025	C. METAL FILM 50V 1.0UF
C5111	421D6009	C. CERAMIC 25V 0.1UF
C5112	427F8001	C. FILM 50V 1000PF

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
C5113	421C0225	C.CERAMIC 50V 0.01UF
C5114	430B9041	C.ELEC 25V 47UF
C5115	423A2039	C.CERAMIC 50V 56PF
C5117	433A7021	C.ELEC 25V 10UF
C5118	433A7021	C.ELEC 25V 10UF
C5119	430B9066	C.ELEC 50V 22UF
C5120	430B9039	C.ELEC 25V 22UF
C5121	421D6009	C.CERAMIC 25V 0.1UF
▲C5122	42839632	
▲C5125	42807505	C.FILM 1.6KV 1500PF
▲C5126	42807505	C.FILM 1.6KV 1500PF
C5127	433A4026	C.ELEC 16V 100UF
C5302	427F4625	C.FILM 50V 0.1UF
C5303	421D6009	C.CERAMIC 25V 0.1UF
C5304	430B9064	C.ELEC 50V 4.7UF
C5305	430B9041	C.ELEC 25V 47UF
C5306	427F4613	C.FILM 50V 0.01UF
C5307	430B9041	C.ELEC 25V 47UF
C5308	423A2045	C.CERAMIC 50V 100PF
C5309	427F4613	C.FILM 50V 0.01UF
C5310	421D6009	C.CERAMIC 25V 0.1UF
C5311	430B9065	C.ELEC 50V 10UF
C5312	427F4625	C.FILM 50V 0.1UF
C5314	427F4625	C.FILM 50V 0.1UF
C5401	427F4622	C.FILM 50V 0.056UF
C5402	427F4622	C.FILM 50V 0.056UF
C5403	428B3018	C.METAL FILM 50V 0.27UF
C5404	428B3018	C.METAL FILM 50V 0.27UF
C5405	430B9041	C.ELEC 25V 47UF
C5406	430B9061	C.ELEC 50V 1.0UF
C5407	421D6009	C.CERAMIC 25V 0.1UF
C5408	421D6009	C.CERAMIC 25V 0.1UF
C5409	430B9061	C.ELEC 50V 1.0UF
C5410	433A7021	C.ELEC 25V 10UF
C5411	430B9041	C.ELEC 25V 47UF
C5412	430B9041	C.ELEC 25V 47UF
C5413	430B9041	C.ELEC 25V 47UF
C5414	430B9041	C.ELEC 25V 47UF
C5415	421D6009	C.CERAMIC 25V 0.1UF
▲C5416	421D6009	C.CERAMIC 25V 0.1UF

SYMBOL	PARTS NO	DESCRIPTION
▲C5451	42807519	C.FILM 1.6KV 5600PF
▲C5452	42807526	C.FILM 1.6KV 0.011UF
C5453	421D6013	C.CERAMIC 50V 0.1UF
▲C5454	42817450	C.METAL 2KV 6400PF
▲C5455	42817450	C.METAL 2KV 6400PF
▲C5457	42807541	C.FILM 1.6K 0.043UF
C5460	42703569	C.FILM 200V 0.033UF
C5501	433A7046	C.ELEC 50V 10UF
C5502	430B9041	C.ELEC 25V 47UF
C5503	430B9041	C.ELEC 25V 47UF
C5504	421D6009	C.CERAMIC 25V 0.1UF
C5505	421D6009	C.CERAMIC 25V 0.1UF
C5509	421D6009	C.CERAMIC 25V 0.1UF
C5510	433A7021	C.ELEC 25V 10UF
C5511	430B9041	C.ELEC 25V 47UF
C5513	421C0225	C.CERAMIC 50V 0.01UF
C5514	421D6009	C.CERAMIC 25V 0.1UF
C5515	430B9041	C.ELEC 25V 47UF
C5516	430B9041	C.ELEC 25V 47UF
C5517	421D6009	C.CERAMIC 25V 0.1UF
C5518	421D6009	C.CERAMIC 25V 0.1UF
C5519	430B9063	C.ELEC 50V 3.3UF
C5520	421D6009	C.CERAMIC 25V 0.1UF
C5521	421D6009	C.CERAMIC 25V 0.1UF
C5522	430B9063	C.ELEC 50V 3.3UF
C5523	421D6009	C.CERAMIC 25V 0.1UF
C5524	421D6009	C.CERAMIC 25V 0.1UF
C5525	430B9041	C.ELEC 25V 47UF
C5526	430B9041	C.ELEC 25V 47UF
C5527	433A7021	C.ELEC 25V 10UF
C5528	421D6009	C.CERAMIC 25V 0.1UF
C5529	421A0425	C.CERAMIC 50V 0.01UF
C5530	421D6009	C.CERAMIC 25V 0.1UF
C5531	430B9041	C.ELEC 25V 47UF
C5532	421D6009	C.CERAMIC 25V 0.1UF
C5533	421A0425	C.CERAMIC 50V 0.01UF
C5534	421D6009	C.CERAMIC 25V 0.1UF
C5535	421A0425	C.CERAMIC 50V 0.01UF
C5537	430B9041	C.ELEC 25V 47UF
C5538	430B6043	C.ELEC 25V 220UF

SYMBOL	PARTS NO	DESCRIPTION
C5542	421D6009	C.CERAMIC 25V 0.1UF
C5548	427F4625	C.FILM 50V 0.1UF
▲C601	79T06065	C.FILM 250V 0.47U
▲C602	79T06065	C.FILM 250V 0.47U
▲C603	79T06406	C.CERAMIC 3300PF 250V
▲C604	79T06406	C.CERAMIC 3300PF 250V
▲C605	79T06406	C.CERAMIC 3300PF 250V
▲C606	79T06406	C.CERAMIC 3300PF 250V
▲C607	79T06063	C.CERAMIC 400V 2200P
▲C608	79T06063	C.CERAMIC 400V 2200P
C609	79T06396	C.CERAMIC 0.82UF 630V
C610	79T06395	C.CERAMIC 0.068UF 630V
C611	79T06408	C.CERAMIC 100PF 2KV
C612	79T06291	C.ELEC 100UF 50V
▲C613	79T06243	C.ELEC 1200UF 250V
▲C614	79T06243	C.ELEC 1200UF 250V
C615	79T06394	C.CERAMIC 0.01UF 630V
C631	79T06408	C.CERAMIC 100PF 2KV
C632	79T06408	C.CERAMIC 100PF 2KV
C633	79T06407	C.CERAMIC 100PF 300V
C634	79T04879	C.CERAMIC 220UF 1KV
C638	79T06282	C.ELEC 33UF 250V
C639	79T06380	C.ELEC 10UF 250V
▲C640	79T06296	C.ELEC 100UF 250V
C641	79T06296	C.ELEC 100UF 250V
C642	79T06282	C.ELEC 33UF 250V
▲C643	79T06397	C.ELEC 220UF 63V
C644	79T06398	C.ELEC 47UF 63V
C645	79T06289	C.ELEC 470UF 50V
C646	79T06291	C.ELEC 100UF 50V
C647	79T06285	C.ELEC 1000UF 35V
C648	79T06384	C.ELEC 100UF 35V
C649	79T06386	C.ELEC 2200UF 35V
C650	79T06287	C.ELEC 220UF 25V
C651	79T06376	C.ELEC 1000UF 16V
C652	79T06377	C.ELEC 330UF 16V
C653	79T06384	C.ELEC 100UF 35V
C654	79T06302	C.ELEC 47UF 35V
C655	79T06392	C.ELEC 220UF
C656	79T06302	C.ELEC 47UF 35V

SYMBOL	PARTS NO	DESCRIPTION
C657	79T06385	C.ELEC 220UF 35V
C658	79T06302	C.ELEC 47UF 35V
C659	79T06379	C.CERAMIC 0.047UF 250V
C660	79T06383	C.ELEC 47UF 35V
C661	79T06389	C.CERAMIC 470PF
C662	79T06388	C.CERAMIC 0.1UF
C663	79T06387	C.CERAMIC 0.01UF
C665	79T06387	C.CERAMIC 0.01UF
C666	79T06387	C.CERAMIC 0.01UF
C671	79T06390	C.CERAMIC 0.047UF
C672	79T06393	C.ELEC 33UF
C681	79T06390	C.CERAMIC 0.047UF
C682	79T06390	C.CERAMIC 0.047UF
C683	79T06391	C.ELEC 1UF
C685	79T06375	C.ELEC 470UF 10V
C686	79T06387	C.CERAMIC 0.01UF
C7001	430B9029	C.ELEC 16V 100UF
C7002	430B9029	C.ELEC 16V 100UF
C7003	421D6009	C.CERAMIC 25V 0.1UF
C7004	423A2037	C.CERAMIC 50V 47PF
C7005	423A2045	C.CERAMIC 50V 100PF
C7009	430B9029	C.ELEC 16V 100UF
C701	421D6009	C.CERAMIC 25V 0.1UF
C7010	421D6009	C.CERAMIC 25V 0.1UF
C7011	430B9065	C.ELEC 50V 10UF
C7012	430B9065	C.ELEC 50V 10UF
C7013	421D6009	C.CERAMIC 25V 0.1UF
C7014	430B9065	C.ELEC 50V 10UF
C7015	421D6009	C.CERAMIC 25V 0.1UF
C7016	430B9042	C.ELEC 25V 100UF
C7017	421D6009	C.CERAMIC 25V 0.1UF
C7018	430B9029	C.ELEC 16V 100UF
C7019	421D6009	C.CERAMIC 25V 0.1UF
C702	430B8145	C.ELEC 16V 100UF
C7020	430B9029	C.ELEC 16V 100UF
C7021	421D6009	C.CERAMIC 25V 0.1UF
C7022	430B9029	C.ELEC 16V 100UF
C7023	421D6009	C.CERAMIC 25V 0.1UF
C7024	430B9065	C.ELEC 50V 10UF
C7025	430B9029	C.ELEC 16V 100UF

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
C7026	421D6009	C.CERAMIC 25V 0.1UF
C7027	421D6009	C.CERAMIC 25V 0.1UF
C7028	421D6009	C.CERAMIC 25V 0.1UF
C7029	421D6009	C.CERAMIC 25V 0.1UF
C703	430C0047	C.ELEC 16V 47UF
C7030	421D6009	C.CERAMIC 25V 0.1UF
C7031	421D6009	C.CERAMIC 25V 0.1UF
C704	430C0047	C.ELEC 16V 47UF
C705	421D6009	C.CERAMIC 25V 0.1UF
C706	421D6009	C.CERAMIC 25V 0.1UF
C707	430B8145	C.ELEC 16V 100UF
C708	430C0047	C.ELEC 16V 47UF
C709	430C0047	C.ELEC 16V 47UF
C710	421D6009	C.CERAMIC 25V 0.1UF
C7101	430B9041	C.ELEC 25V 47UF
C7102	430B9041	C.ELEC 25V 47UF
C7103	430B9029	C.ELEC 16V 100UF
C7104	421D6009	C.CERAMIC 25V 0.1UF
C7105	430B9041	C.ELEC 25V 47UF
C7106	423A2103	C.CERAMIC 50V 180PF
C7107	423A2033	C.CERAMIC 50V 33PF
C7108	421C0211	C.CERAMIC 50V 680PF
C7109	421C0213	C.CERAMIC 50V 1000PF
C711	421D6009	C.CERAMIC 25V 0.1UF
C7110	423A2029	C.CERAMIC 50V 22PF
C7111	421C0225	C.CERAMIC 50V 0.01UF
C7112	423A2025	C.CERAMIC 50V 15PF
C7113	430B9029	C.ELEC 16V 100UF
C7114	421D6009	C.CERAMIC 25V 0.1UF
C7118	430B9065	C.ELEC 50V 10UF
C712	430B8145	C.ELEC 16V 100UF
C7120	423A2045	C.CERAMIC 50V 100PF
C713	421D6009	C.CERAMIC 25V 0.1UF
C714	421D6009	C.CERAMIC 25V 0.1UF
C715	421D6009	C.CERAMIC 25V 0.1UF
C716	421D6009	C.CERAMIC 25V 0.1UF
C717	430B8145	C.ELEC 16V 100UF
C720	430B8145	C.ELEC 16V 100UF
C7201	430B9041	C.ELEC 25V 47UF
C7202	430B6032	C.ELEC 16V 470UF

SYMBOL	PARTS NO	DESCRIPTION
C7422	423A1057	C.CERAMIC 50V 330PF
C7423	423A1057	C.CERAMIC 50V 330PF
C7424	430B9029	C.ELEC 16V 100UF
C7425	421D6009	C.CERAMIC 25V 0.1UF
C7426	421D6009	C.CERAMIC 25V 0.1UF
C7427	421D6009	C.CERAMIC 25V 0.1UF
C7428	421D6009	C.CERAMIC 25V 0.1UF
C7429	430B9042	C.ELEC 25V 100UF
C7430	421D6009	C.CERAMIC 25V 0.1UF
C7431	430B6032	C.ELEC 16V 470UF
C7432	421D6009	C.CERAMIC 25V 0.1UF
C751	430C0077	C.ELEC 50V 1.0UF
C752	430C0077	C.ELEC 50V 1.0UF
C753	430C0077	C.ELEC 50V 1.0UF
C754	430C0077	C.ELEC 50V 1.0UF
C755	430C0043	C.ELEC 16V 10UF
C756	430C0043	C.ELEC 16V 10UF
C757	430B8145	C.ELEC 16V 100UF
C758	421D6009	C.CERAMIC 25V 0.1UF
C759	430C0077	C.ELEC 50V 1.0UF
C760	430C0077	C.ELEC 50V 1.0UF
C8001	421A0425	C.CERAMIC 50V 0.01UF
C8002	433A4026	C.ELEC 16V 100UF
C8003	421A0425	C.CERAMIC 50V 0.01UF
C8004	421A0425	C.CERAMIC 50V 0.01UF
C8005	433A4026	C.ELEC 16V 100UF
C8006	421A0425	C.CERAMIC 50V 0.01UF
C8007	421A0425	C.CERAMIC 50V 0.01UF
C8008	433A4026	C.ELEC 16V 100UF
C8009	421A0425	C.CERAMIC 50V 0.01UF
C801	421D6009	C.CERAMIC 25V 0.1UF
C8010	430B9041	C.ELEC 25V 47UF
C8011	421D6009	C.CERAMIC 25V 0.1UF
C8012	421A0425	C.CERAMIC 50V 0.01UF
C8013	433A4026	C.ELEC 16V 100UF
C8014	421A0425	C.CERAMIC 50V 0.01UF
C8015	430B6032	C.ELEC 16V 470UF
C8016	421A0425	C.CERAMIC 50V 0.01UF
C8017	433A4026	C.ELEC 16V 100UF
C8018	421A0425	C.CERAMIC 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C7203	421D6009	C.CERAMIC 25V 0.1UF
C7204	433A4025	C.ELEC 16V 47UF
C7205	421D6009	C.CERAMIC 25V 0.1UF
C7206	423A2005	C.CERAMIC 50V 5.0PF
C7207	421D6009	C.CERAMIC 25V 0.1UF
C7208	430B9065	C.ELEC 50V 10UF
C7209	4276D631	C.FILM 50V 0.33UF
C721	421D6009	C.CERAMIC 25V 0.1UF
C7210	430B6032	C.ELEC 16V 470UF
C7211	421D6009	C.CERAMIC 25V 0.1UF
C7212	430B9065	C.ELEC 50V 0.47UF
C7213	430B9063	C.ELEC 50V 3.3UF
C7214	430B9065	C.ELEC 50V 10UF
C7215	430C2152	C.ELEC 50V 0.68UF
C7216	423A2029	C.CERAMIC 50V 22PF
C7217	430B9065	C.ELEC 50V 10UF
C722	430C0047	C.ELEC 16V 47UF
C7301	427F4612	C.FILM 50V 8200PF
C7302	427F4613	C.FILM 50V 0.01UF
C7303	430B9029	C.ELEC 16V 100UF
C7304	421D6009	C.CERAMIC 25V 0.1UF
C7402	423A2104	C.CERAMIC 50V 220PF
C7403	427F4610	C.FILM 50V 5600PF
C7404	423A2104	C.CERAMIC 50V 220PF
C7405	427F4617	C.FILM 50V 0.022UF
C7406	421C0225	C.CERAMIC 50V 0.01UF
C7407	423A2102	C.CERAMIC 50V 150PF
C7409	427F4625	C.FILM 50V 0.1UF
C7410	430B9065	C.ELEC 50V 10UF
C7411	430B9064	C.ELEC 50V 4.7UF
C7412	430B9065	C.ELEC 50V 0.47UF
C7413	430B6033	C.ELEC 16V 1000UF
C7414	421D6009	C.CERAMIC 25V 0.1UF
C7415	433A7045	C.ELEC 50V 4.7UF
C7416	427F4612	C.FILM 50V 8200PF
C7417	430B9222	C.ELEC 50V 0.22UF
C7418	423A2033	C.CERAMIC 50V 33PF
C7419	423A2033	C.CERAMIC 50V 33PF
C7420	423A2037	C.CERAMIC 50V 47PF
C7421	423A1057	C.CERAMIC 50V 330PF

SYMBOL	PARTS NO	DESCRIPTION
C8019	421A0425	C.CERAMIC 50V 0.01UF
C802	433A6079	C.ELEC 50V 2.2UF
C8020	433A4026	C.ELEC 16V 100UF
C8021	421A0425	C.CERAMIC 50V 0.01UF
C8022	430B9041	C.ELEC 25V 47UF
C8023	421D6009	C.CERAMIC 25V 0.1UF
C8024	421A0425	C.CERAMIC 50V 0.01UF
C8025	433A4026	C.ELEC 16V 100UF
C8026	421A0425	C.CERAMIC 50V 0.01UF
C8027	421A0425	C.CERAMIC 50V 0.01UF
C8028	433A4026	C.ELEC 16V 100UF
C8029	421A0425	C.CERAMIC 50V 0.01UF
C803	421D6009	C.CERAMIC 25V 0.1UF
C8030	421A0425	C.CERAMIC 50V 0.01UF
C8031	433A4026	C.ELEC 16V 100UF
C8032	421A0425	C.CERAMIC 50V 0.01UF
C8033	430B9041	C.ELEC 25V 47UF
C8034	421D6009	C.CERAMIC 25V 0.1UF
C8035	430B9029	C.ELEC 16V 100UF
C804	433A6079	C.ELEC 50V 2.2UF
C805	430B6064	C.ELEC 50V 4.7UF
C806	430B8145	C.ELEC 16V 100UF
C807	421D6009	C.CERAMIC 25V 0.1UF
C808	430B8145	C.ELEC 16V 100UF
C809	423A1057	C.CERAMIC 50V 330PF
C810	430B8145	C.ELEC 16V 100UF
C8101	430B9029	C.ELEC 16V 100UF
C8102	421A0425	C.CERAMIC 50V 0.01UF
C8103	427F8001	C.FILM 50V 1000PF
C8104	427F8001	C.FILM 50V 1000PF
C8105	430B6030	C.ELEC 16V 220UF
C8106	430B9061	C.ELEC 50V 1.0UF
C8107	421A0425	C.CERAMIC 50V 0.01UF
C811	421D6009	C.CERAMIC 25V 0.1UF
C812	423A1057	C.CERAMIC 50V 330PF
C813	423A1057	C.CERAMIC 50V 330PF
C814	423A1057	C.CERAMIC 50V 330PF
C815	430B6064	C.ELEC 50V 4.7UF
C816	430C0043	C.ELEC 16V 10UF
C817	433A6081	C.ELEC 50V 4.7UF

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
C818	427F4625	C.FILM 50V 0.1UF
C819	430B6064	C.ELEC 50V 4.7UF
C820	433A6079	C.ELEC 50V 2.2UF
C8201	430B9029	C.ELEC 16V 100UF
C8202	421D6009	C.CERAMIC 25V 0.1UF
C821	427F4609	C.FILM 50V 4700PF
C822	430B8145	C.ELEC 16V 100UF
C823	421D6009	C.CERAMIC 25V 0.1UF
C825	430C0043	C.ELEC 16V 10UF
C826	421D6009	C.CERAMIC 25V 0.1UF
C8301	421A0425	C.CERAMIC 50V 0.01UF
C8302	421A0425	C.CERAMIC 50V 0.01UF
C8303	421A0425	C.CERAMIC 50V 0.01UF
C8304	433A4026	C.ELEC 16V 100UF
C8305	433A4026	C.ELEC 16V 100UF
C8306	433A4026	C.ELEC 16V 100UF
C8307	423A2015	C.CERAMIC 50V 10PF
C8308	423A2015	C.CERAMIC 50V 10PF
C8309	423A2015	C.CERAMIC 50V 10PF
C831	42034151	C.CERAMIC 2KV 4700UF
C8310	421A0425	C.CERAMIC 50V 0.01UF
C8311	421A0425	C.CERAMIC 50V 0.01UF
C8312	421A0425	C.CERAMIC 50V 0.01UF
C8313	430B6032	C.ELEC 16V 470UF
C8314	430B6032	C.ELEC 16V 470UF
C8315	430B6032	C.ELEC 16V 470UF
C8316	421C0225	C.CERAMIC 50V 0.01UF
C8317	421C0225	C.CERAMIC 50V 0.01UF
C8318	421C0225	C.CERAMIC 50V 0.01UF
C8319	423A2029	C.CERAMIC 50V 22PF
C8320	423A2029	C.CERAMIC 50V 22PF
C8321	423A2029	C.CERAMIC 50V 22PF
C8322	430B9062	C.ELEC 50V 2.2UF
C8323	430B9062	C.ELEC 50V 2.2UF
C8324	430B9062	C.ELEC 50V 2.2UF
C8325	430B9061	C.ELEC 50V 1.0UF
C8326	430B9061	C.ELEC 50V 1.0UF
C8327	430B9061	C.ELEC 50V 1.0UF
C8328	430B9029	C.ELEC 16V 100UF
C8329	421A0425	C.CERAMIC 50V 0.01UF

SYMBOL	PARTS NO	DESCRIPTION
C8330	430B9062	C.ELEC 50V 2.2UF
C8331	421C0225	C.CERAMIC 50V 0.01UF
C8332	430B9061	C.ELEC 50V 1.0UF
C8333	430B9068	C.ELEC 50V 47UF
C8404	421A0425	C.CERAMIC 50V 0.01UF
C8405	421A0425	C.CERAMIC 50V 0.01UF
C8406	421A0425	C.CERAMIC 50V 0.01UF
C8407	430B9029	C.ELEC 16V 100UF
C8408	430B9029	C.ELEC 16V 100UF
C8409	430B9029	C.ELEC 16V 100UF
C8410	423A2025	C.CERAMIC 50V 15PF
C8411	423A2025	C.CERAMIC 50V 15PF
C8412	423A2025	C.CERAMIC 50V 15PF
C8413	430B9065	C.ELEC 50V 10UF
C8414	430B9065	C.ELEC 50V 10UF
C8415	430B9065	C.ELEC 50V 10UF
C8416	420B9513	C.CERAMIC 50V 1000PF
C8417	420B9513	C.CERAMIC 50V 1000PF
C8418	420B9513	C.CERAMIC 50V 1000PF
C8419	421D6009	C.CERAMIC 25V 0.1UF
C8420	421D6009	C.CERAMIC 25V 0.1UF
C8421	421D6009	C.CERAMIC 25V 0.1UF
C8422	423A2045	C.CERAMIC 50V 100PF
C8423	423A2045	C.CERAMIC 50V 100PF
C8424	423A2045	C.CERAMIC 50V 100PF
C8425	421A0425	C.CERAMIC 50V 0.01UF
C8426	421A0425	C.CERAMIC 50V 0.01UF
C8427	421A0425	C.CERAMIC 50V 0.01UF
C8428	430B6054	C.ELEC 35V 100UF
C8429	430B6054	C.ELEC 35V 100UF
C8430	430B6054	C.ELEC 35V 100UF
C8431	430B9040	C.ELEC 25V 33UF
C8501	430B6045	C.ELEC 25V 470UF
C8502	421D6009	C.CERAMIC 25V 0.1UF
C8601	430B6032	C.ELEC 16V 470UF
C8602	421D6009	C.CERAMIC 25V 0.1UF
C8603	421D6009	C.CERAMIC 25V 0.1UF
C8604	430B9042	C.ELEC 25V 100UF
C8605	430B6054	C.ELEC 35V 100UF
C8606	430B6057	C.ELEC 35V 470UF

SYMBOL	PARTS NO	DESCRIPTION
C8607	421D6013	C.CERAMIC 50V 0.1UF
C8701	430B6032	C.ELEC 16V 470UF
C8702	421D6009	C.CERAMIC 25V 0.1UF
C8703	427F4621	C.FILM 50V 0.047UF
C8704	421D6009	C.CERAMIC 25V 0.1UF
C8705	421C0225	C.CERAMIC 50V 0.01UF
C8706	428B3025	C.METAL FILM 50V 1.0UF
C8707	427F4621	C.FILM 50V 0.047UF
C8708	428B3025	C.METAL FILM 50V 1.0UF
C8709	427F4619	C.FILM 50V 0.033UF
C871	421D6009	C.CERAMIC 25V 0.1UF
C8710	433A7042	C.ELEC 50V 1.0UF
C8711	433A7042	C.ELEC 50V 1.0UF
C8712	427F4601	C.FILM 50V 1000PF
C8713	423A1104	C.CERAMIC 50V 680PF
C8714	427F4609	C.FILM 50V 4700PF
C8715	427F8069	C.FILM 50V 5600PF
C8716	430B9062	C.ELEC 50V 2.2UF
C8717	427F4621	C.FILM 50V 0.047UF
C8718	427F4613	C.FILM 50V 0.01UF
C8719	423A1101	C.CERAMIC 50V 470PF
C872	430B8145	C.ELEC 16V 100UF
C8720	421D6009	C.CERAMIC 25V 0.1UF
C8721	430B9029	C.ELEC 16V 100UF
C8722	427F8001	C.FILM 50V 1000PF
C8723	421D6009	C.CERAMIC 25V 0.1UF
C8724	430B9029	C.ELEC 16V 100UF
C8726	427F4656	C.FILM 50V 2700PF
C8727	428B3025	C.METAL FILM 50V 1.0UF
C873	421D6009	C.CERAMIC 25V 0.1UF
C8803	427F8001	C.FILM 50V 1000PF
C8804	421D6009	C.CERAMIC 25V 0.1UF
C890	421D6009	C.CERAMIC 25V 0.1UF
C9001	423A2045	C.CERAMIC 50V 100PF
C9002	423A2103	C.CERAMIC 50V 180PF
C9003	423A2105	C.CERAMIC 50V 270PF
C9004	427F8059	C.FILM 50V 2200PF
C9005	435A8651	C.TANTALUM 25V 1.0UF
C9006	421A0425	C.CERAMIC 50V 0.01UF
C9007	430B9061	C.ELEC 50V 1.0UF

SYMBOL	PARTS NO	DESCRIPTION
C9008	427F4614	C.FILM 50V 0.012UF
C9009	421D6009	C.CERAMIC 25V 0.1UF
C901	421C0213	C.CERAMIC 50V 1000PF
C9010	430B6032	C.ELEC 16V 470UF
C9011	421D6009	C.CERAMIC 25V 0.1UF
C9012	430B6045	C.ELEC 25V 470UF
C9013	427F8059	C.FILM 50V 2200PF
C9014	421A0425	C.CERAMIC 50V 0.01UF
C9015	430B9061	C.ELEC 50V 1.0UF
C9016	423A2103	C.CERAMIC 50V 180PF
C9017	427F4601	C.FILM 50V 1000PF
C9018	423A2033	C.CERAMIC 50V 33PF
C9019	430B6030	C.ELEC 16V 220UF
C902	421C0213	C.CERAMIC 50V 1000PF
C9020	421D6009	C.CERAMIC 25V 0.1UF
C9021	430B6030	C.ELEC 16V 220UF
C9022	421D6009	C.CERAMIC 25V 0.1UF
C9023	421D6009	C.CERAMIC 25V 0.1UF
C9024	430B9041	C.ELEC 25V 47UF
C9025	421D6009	C.CERAMIC 25V 0.1UF
C9026	421D6009	C.CERAMIC 25V 0.1UF
C9027	430B9041	C.ELEC 25V 47UF
C9028	430B9041	C.ELEC 25V 47UF
C9029	421D6009	C.CERAMIC 25V 0.1UF
C903	421C0213	C.CERAMIC 50V 1000PF
C9030	430B9041	C.ELEC 25V 47UF
C9031	421D6009	C.CERAMIC 25V 0.1UF
C9032	430B9041	C.ELEC 25V 47UF
C9033	421D6009	C.CERAMIC 25V 0.1UF
C9034	430B6043	C.ELEC 25V 220UF
C9035	430B6057	C.ELEC 35V 470UF
C9036	430B6030	C.ELEC 16V 220UF
C9037	421D6009	C.CERAMIC 25V 0.1UF
C9038	430B9064	C.ELEC 50V 4.7UF
C9039	421D6009	C.CERAMIC 25V 0.1UF
C904	4201J575	C.CERAMIC 500V 0.01UF
C905	4201J575	C.CERAMIC 500V 0.01UF
C906	4201J575	C.CERAMIC 500V 0.01UF
C907	421D6009	C.CERAMIC 25V 0.1UF
C908	421D6009	C.CERAMIC 25V 0.1UF

REPLACEMENT PARTS LIST

SYMBOL	PARTS NO	DESCRIPTION
C909	421D6009	C,CERAMIC 25V 0.1UF
C910	430B9029	C,ELEC 16V 100UF
C9101	430B9041	C,ELEC 25V 47UF
C9102	427F4619	C,FILM 50V 0.033UF
C9107	430B9029	C,ELEC 16V 100UF
C9108	430B9041	C,ELEC 25V 47UF
C911	430B9029	C,ELEC 16V 100UF
C912	430B9029	C,ELEC 16V 100UF
C9127	430B9065	C,ELEC 50V 10UF
C9128	423A2101	C,CERAMIC 50V 120PF
C9129	430B9062	C,ELEC 50V 2.2UF
C913	421C0213	C,CERAMIC 50V 1000PF
C9130	430B9062	C,ELEC 50V 2.2UF
C9131	430B9064	C,ELEC 50V 4.7UF
C9132	430B9061	C,ELEC 50V 1.0UF
C9133	427F4625	C,FILM 50V 0.1UF
C9134	423A2029	C,CERAMIC 50V 22PF
C9135	423A1051	C,CERAMIC 50V 180PF
C9136	430B9062	C,ELEC 50V 2.2UF
C9137	423A1101	C,CERAMIC 50V 470PF
C9138	4276D630	C,FILM 50V 0.27UF
C9139	430B9064	C,ELEC 50V 4.7UF
C914	421C0213	C,CERAMIC 50V 1000PF
C9140	430B9062	C,ELEC 50V 2.2UF
C9141	430B9064	C,ELEC 50V 4.7UF
C9142	430B9053	C,ELEC 35V 47UF
C9143	430B9039	C,ELEC 25V 22UF
C9144	4302J096	C,ELEC 100V 3.3UF
C9145	430B9053	C,ELEC 35V 47UF
C9146	421A0425	C,CERAMIC 50V 0.01UF
C9147	427F8051	C,FILM 50V 1000PF
C9148	423A2033	C,CERAMIC 50V 33PF
C915	421C0213	C,CERAMIC 50V 1000PF
C9150	421D6009	C,CERAMIC 25V 0.1UF
C9151	430B9061	C,ELEC 50V 1.0UF
C916	423A2105	C,CERAMIC 50V 270PF
C917	423A2105	C,CERAMIC 50V 270PF
C918	423A2105	C,CERAMIC 50V 270PF
C919	423A2102	C,CERAMIC 50V 150PF
C920	423A2102	C,CERAMIC 50V 150PF

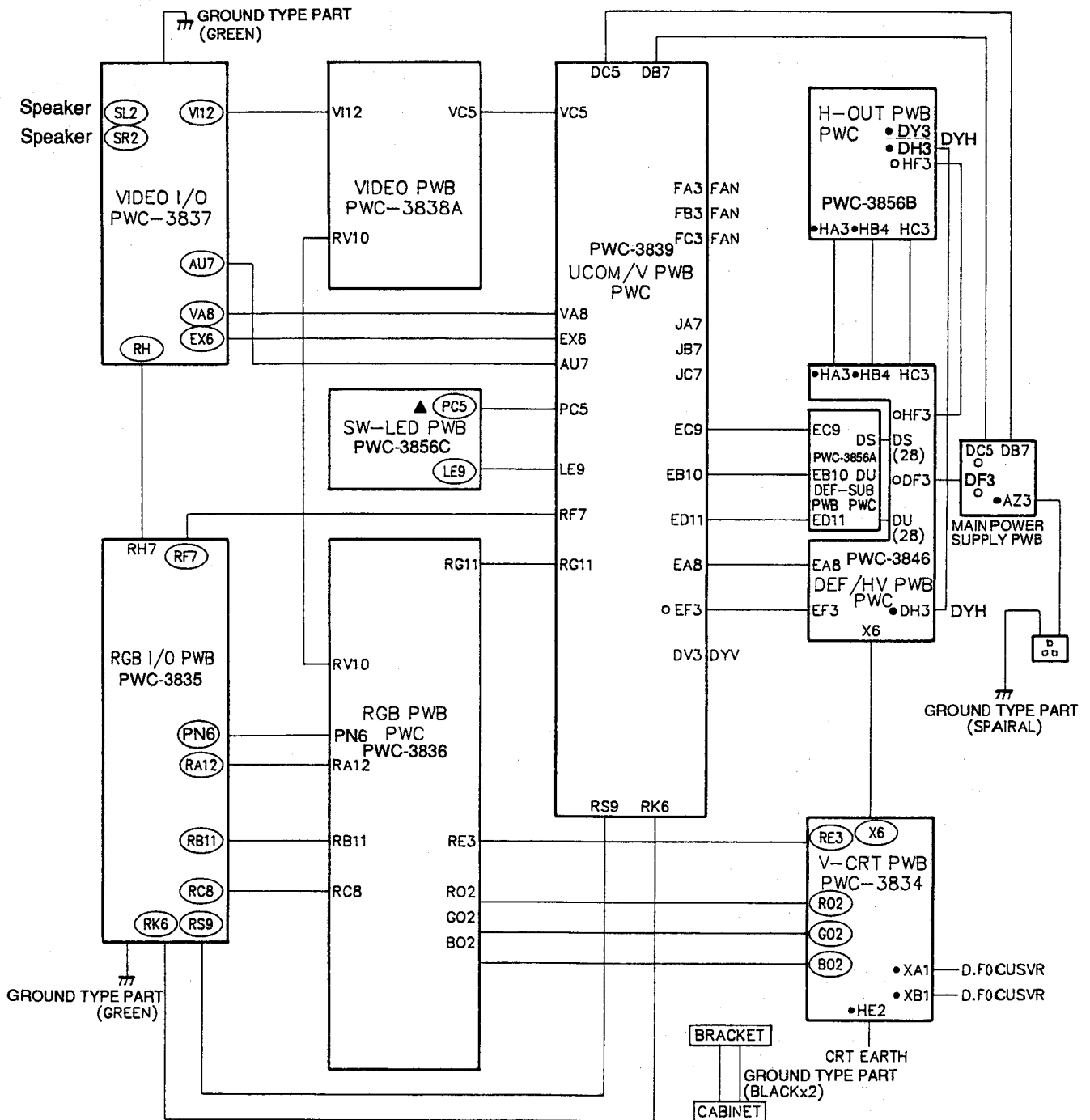
SYMBOL	PARTS NO	DESCRIPTION
C921	423A2102	C,CERAMIC 50V 150PF
C922	421D6009	C,CERAMIC 25V 0.1UF
C924	423A1053	C,CERAMIC 50V 220PF
C925	42019175	C,CERAMIC 2KV 0.01UF
C926	42034151	C,CERAMIC 2KV 4700UF
C927	4309J173	C,ELEC 200V 220UF
C928	42074702	C,CERAMIC 2.0KV 120PF
C929	42074702	C,CERAMIC 2.0KV 120PF
C930	42074702	C,CERAMIC 2.0KV 120PF
C943	423A2045	C,CERAMIC 50V 100PF
C944	423A2045	C,CERAMIC 50V 100PF
C945	423A2045	C,CERAMIC 50V 100PF
C946	421D6009	C,CERAMIC 25V 0.1UF

XM-2950G

* Other than the following is the same as described of the XM-2950.

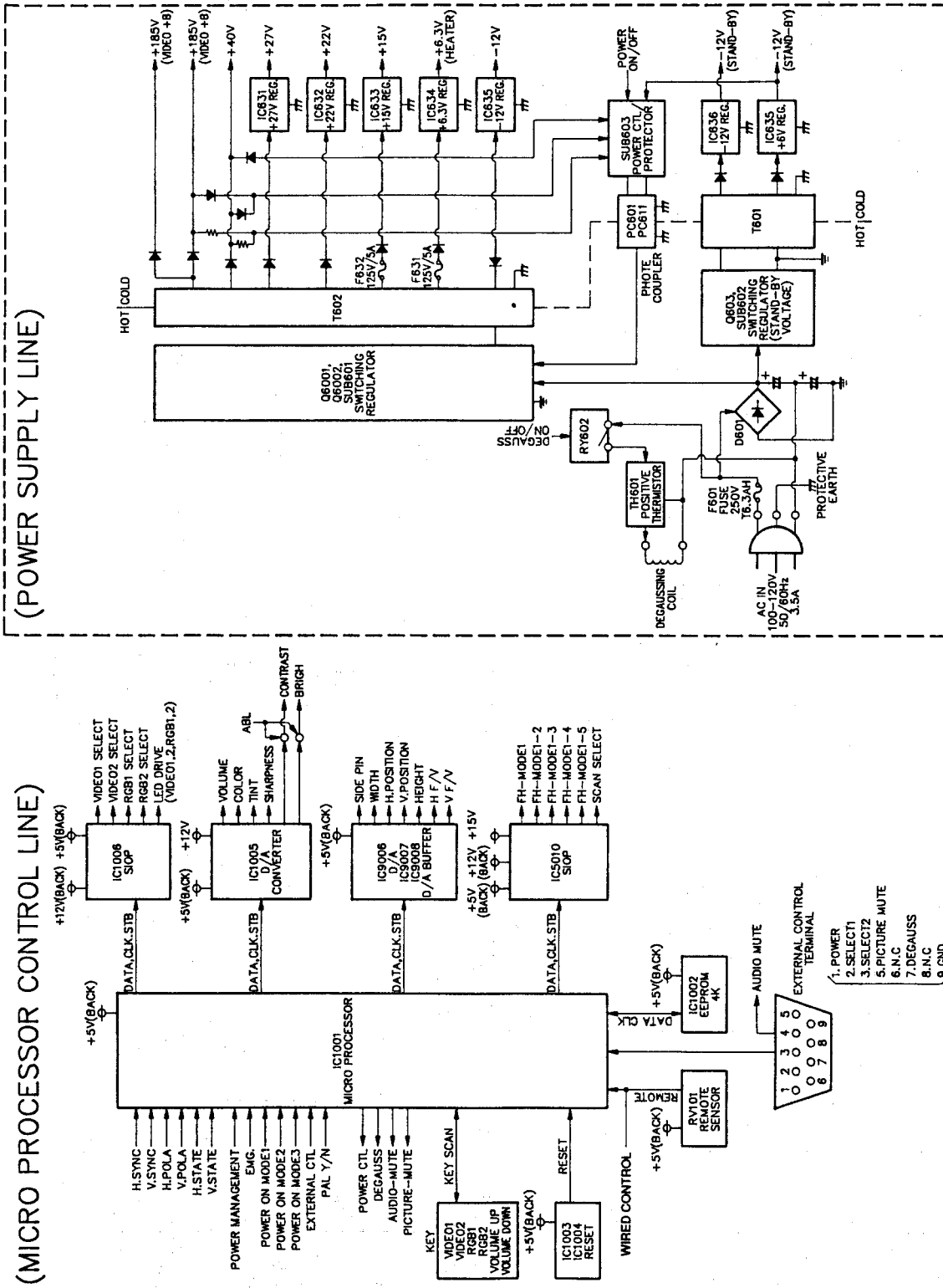
SYMBOL	PARTS NO	DESCRIPTION
*** APPEARANCE PARTS ***		
	24L28581 24L29421 24L32151	CAUTION LABEL SERIAL NUMBER LABEL NAME PLATE
*** PRINTED & PACKING MATERIALS ***		
	24MT9081 24M14211 24813191	CARTON BOX PAPER BAG (270*382) BAG, POLYETHYLENE
*** ELECTRICAL PARTS & MISCELLANEOUS PARTS ***		
	70800033 78036451 78048601 78405891 79642703 79643061	POWER CORD SUPPLEMENT SHFET X-RAY LICENSE USER'S MANUAL XM-2950G REM-T HAND UNIT RD-335E POWER UNIT
*** CAPACITORS ***		
C947 C948 C949	423A2025 423A2025 423A2025	C,CERAMIC 50V 15PF C,CERAMIC 50V 15PF C,CERAMIC 50V 15PF
*** COILS & FILTERS ***		
FL803 FL804 FL805 WI DEG	616K6824 616K6824 616K6824 61329201	NOISE FILTER NOISE FILTER NOISE FILTER COIL, DEGAUSSING

CONNECTION DIAGRAM



- : BOARD IN CONNECTOR
- : OCTAL CONNECTOR
- : MINI CONNECTOR
- △ : EH CONNECTOR
- ▲ : TLB CONNECTOR

BLOCK DIAGRAM





SCHEMATIC DIAGRAMS

1

2

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A

B

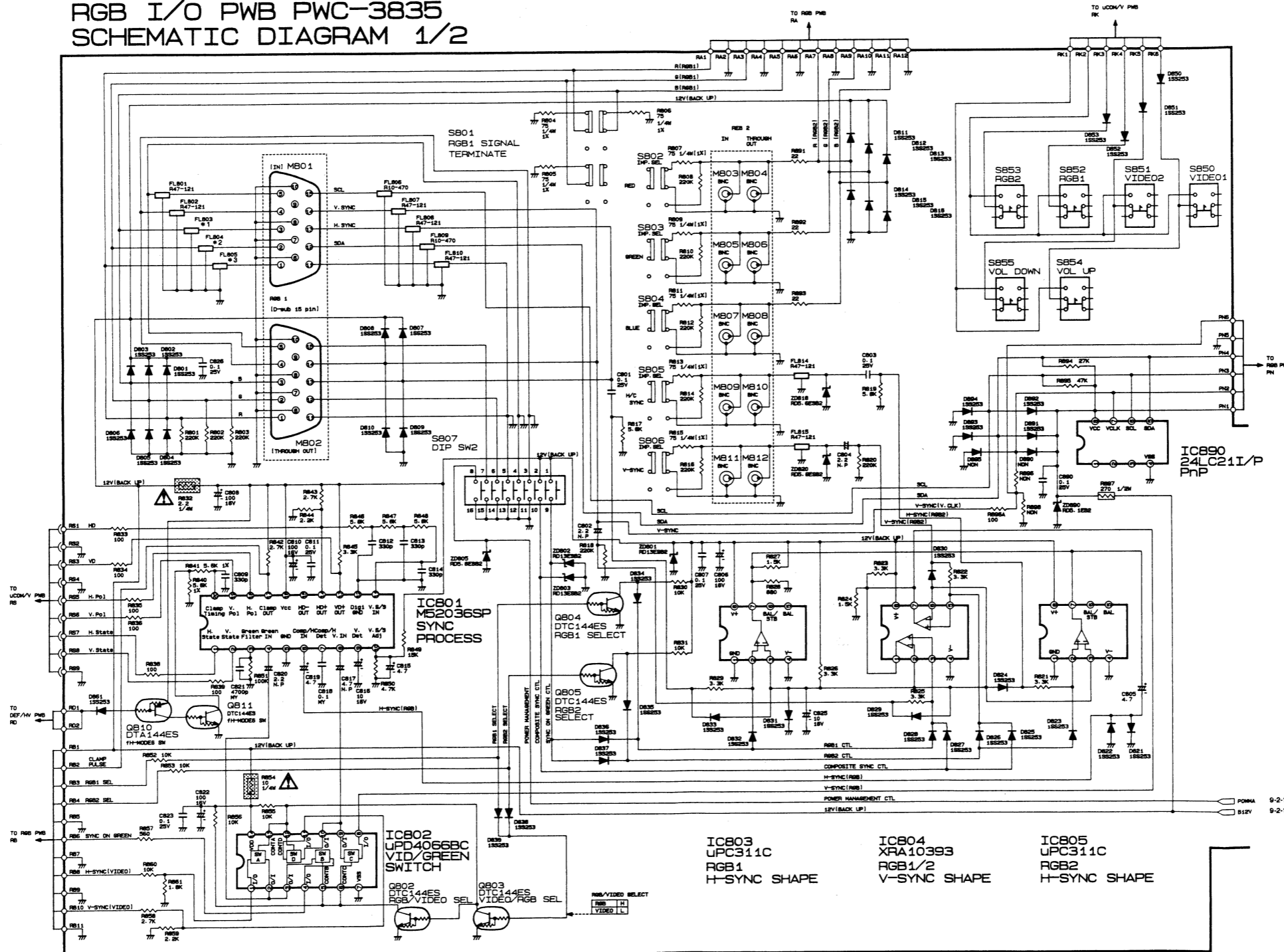
C

D

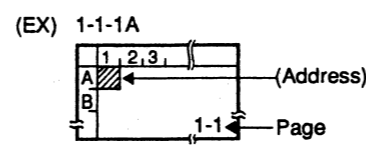
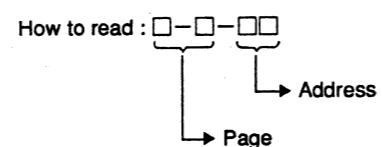
E

F

RGB I/O PWB PWC-3835
SCHEMATIC DIAGRAM 1/2



*1~*3
R10-470 → XM-2950
R47-121 → XM-2950G



1

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A

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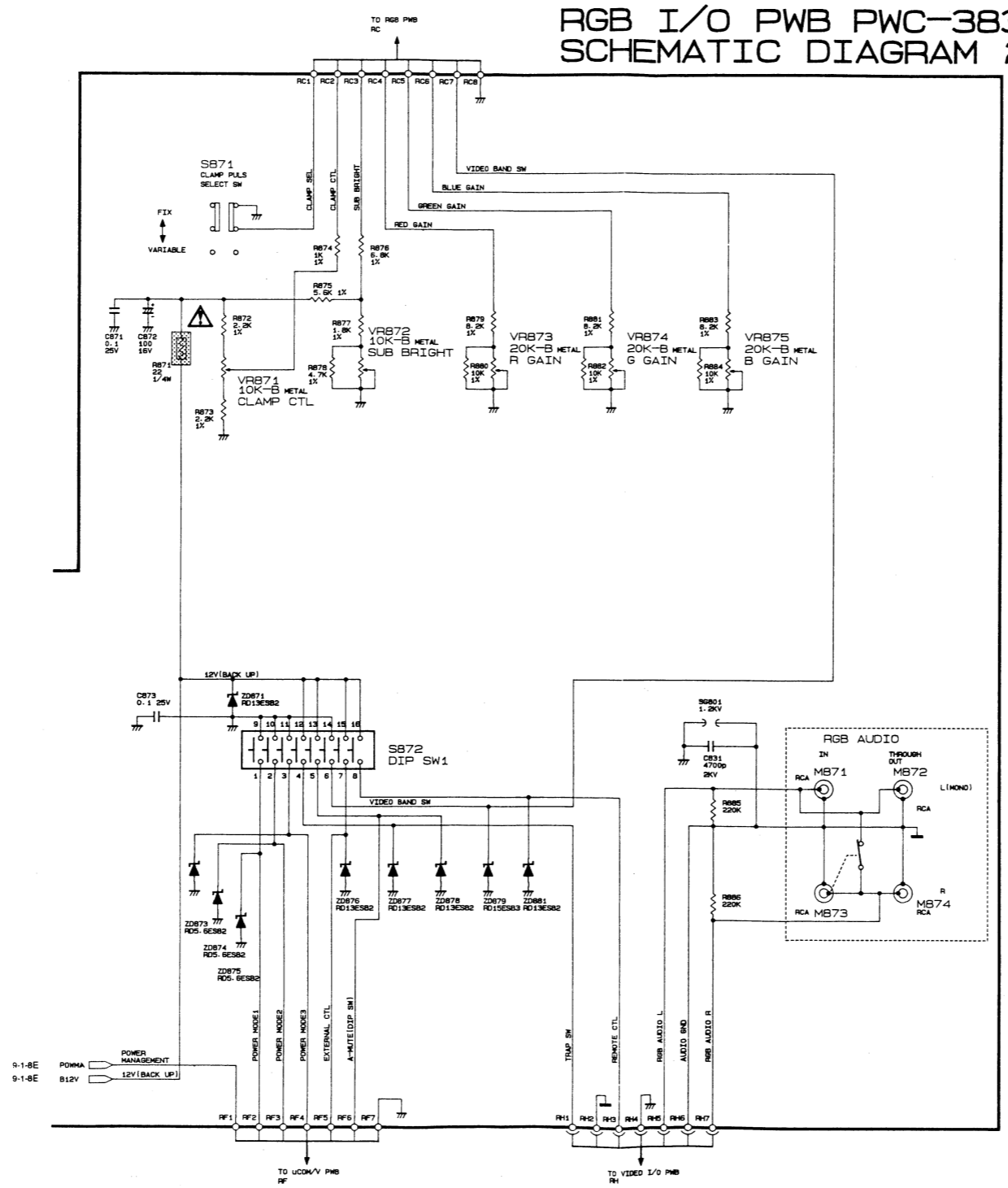
C

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F

RGB I/O PWB PWC-3835
SCHEMATIC DIAGRAM 2/2



How to read:

□	□	□
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→ Address
→ Page

(EX) 1-1-1A

1	2	3
A		
B		

→ (Address)
→ 1-1 → Page

RGB I/O PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC801		
#1	0	SYNC ON Green or VIDEO Mode
#2	4.1	V. SYNC IN
#3	5.4	—
#4	5.4	—
#5	0	—
#6	6.1	—
#7	6.1	—
#8	6.1	—
#9	10.7	—
#10	2.3	—
#11	0.4	—
#12	0	—
#13	0.2	—
#14	0.3	—
#15	0	—
#16	11.8	—
#17	0.3	—
#18	0	SYNC ON Green or VIDEO Mode
#19	0	ditto
#20	3.4	—
IC802		
#1	1.7	—
#2, #3	1.7	—
#4	1.4	—
#5, #6	0	VIDEO 1, 2 Mode
#7	11.9	RGB 1, 2 Mode
#8	0	—
#9, #10	3.7	—
#11	0.2	—
#12, #13	0.2	—
#14	10.0	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
	12.0	—
IC803		
#1, #4	0	—
#2	4.9	RGB 2 Mode
#3	0.7	—
#5, #6	11.7	—
#7	0.2	—
#8	11.8	—
IC804		
#1	0.2	—
#2	0.7	—
#3	5.1	RGB 2 Mode
#4	0	—
#5	5.1	RGB 1 Mode
#6	0.7	—
#7	0.2	—
#8	11.8	—
IC805		
#1, #4	0	—
#2	4.9	RGB 1 Mode
#3	0.7	—
#5, #6	11.7	—
#7	0.2	—
#8	11.8	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q802		
(E)	0	—
(C)	0	VIDEO 1, 2 Mode
	11.9	RGB 1, 2 Mode
(B)	10.0	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
Q803		
(E)	0	—
(C)	10.0	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
(B)	0	VIDEO 1, 2 Mode
	4.0	RGB 1, 2 Mode
Q804		
(E)	0	—
(C)	0	RGB 1 Mode
	6.0	Other Mode
(B)	4.5	RGB 1 Mode
	0	Other Mode
Q805		
(E)	0	—
(C)	0	RGB 2 Mode
	6.1	Other Mode
(B)	4.5	RGB 2 Mode
	0	Other Mode
CONNECTOR "RS"		
#1	0.3	—
#3	0.2	—
#5	0	SYNC ON Green or VIDEO Mode
#6	0	ditto
#7	0	ditto
#8	4.1	V. SYNC IN
#2, #4, #9	0	—
CONNECTOR "RB"		
#1	12.0	—
#2	0.3	—
#3	6.0	RGB 1 Mode
	0	Other Mode
#4	6.0	RGB 2 Mode
	0	Other Mode
#6	1.7	—
#8	11.1	—
#0	0.4	—
#5, #7, #9, #11	0	—
CONNECTOR "RA"		
All pins	0	No Input RGB 1, 2 Signal
CONNECTOR "RK"		
All pins	0	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "RC"		
#1	4.3	CLAMP SELECT "VARI" Mode
	0	CLAMP SELECT "FIX" Mode
#2	2.0~10.0	CLAMP CTL Volume
#3	3.0~5.1	SUB BRIGHT Volume
#4	4.0~5.3	R GAIN Volume
#5	4.2~5.2	G GAIN Volume
#6	4.0~5.3	B GAIN Volume
#7	10.0	VIDEO BAND SW "Normal" Mode
	0	VIDEO BAND SW "NARROW" Mode
#8	0	—
CONNECTOR "RF"		
#1	4.4	POWER MANAGEMENT "OFF"
	0	POWER MANAGEMENT "ON"
#2	4.3	POWER ON MODE SELECT "OFF" Mode
	0	POWER ON MODE SELECT "ON" Mode
#3	4.3	VIDEO 1, Mode
#4	4.3	VIDEO 1, Mode
#5	0	EXTERNAL CTL "OFF" Mode
	12.0	EXTERNAL CTL "ON" Mode
#6	0	A-MUTE "OFF"
	0	A-MUTE "ON"
#7	0	—
CONNECTOR "RH"		
#1	12.0	TRAP Switch "ON"
#2	—	—
#3	12.0	Remote Control SW "ON"
#4, #6	0	—
#5, #7	0	No Input "RGB AUDIO"

1 2 3 4 5 6 7 8

• RGB I/O PWB (SOLDER SIDE)

A

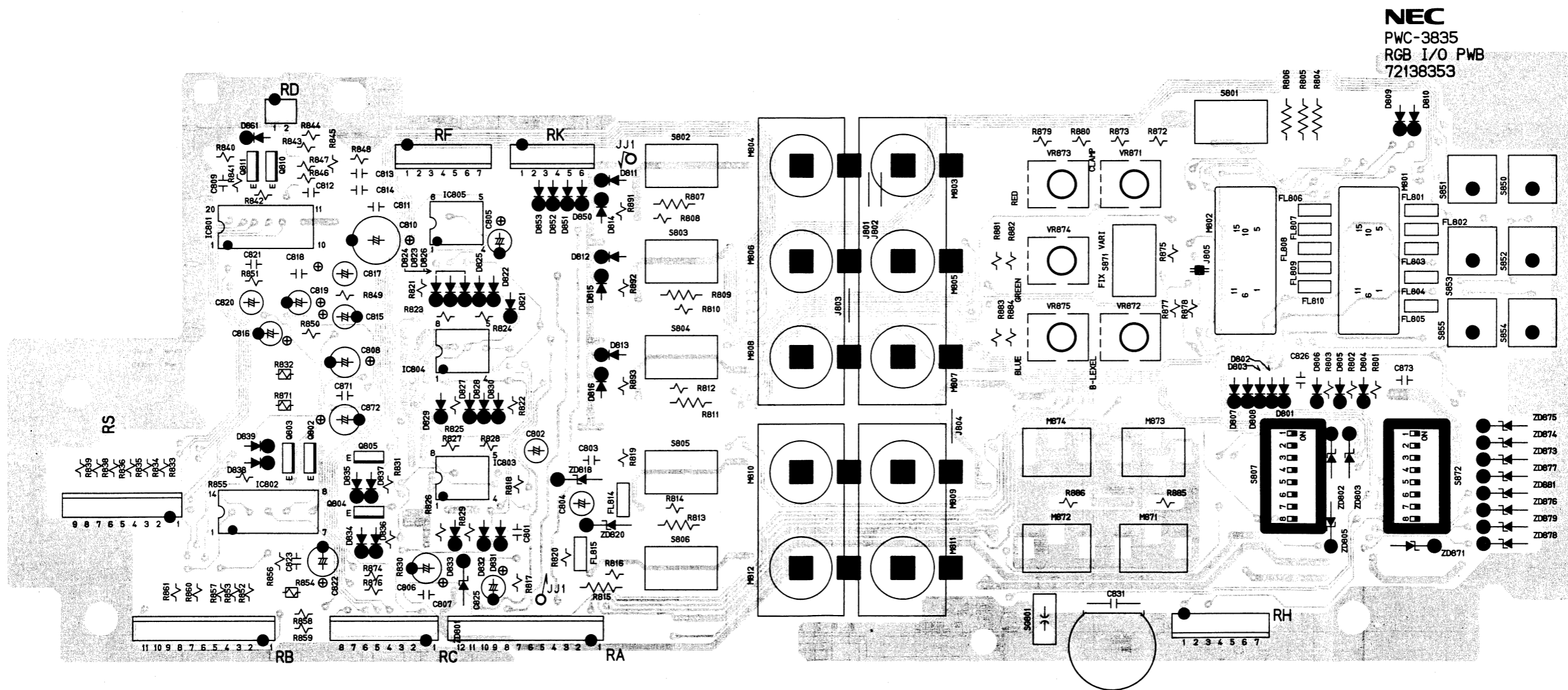
B

C

D

E

F

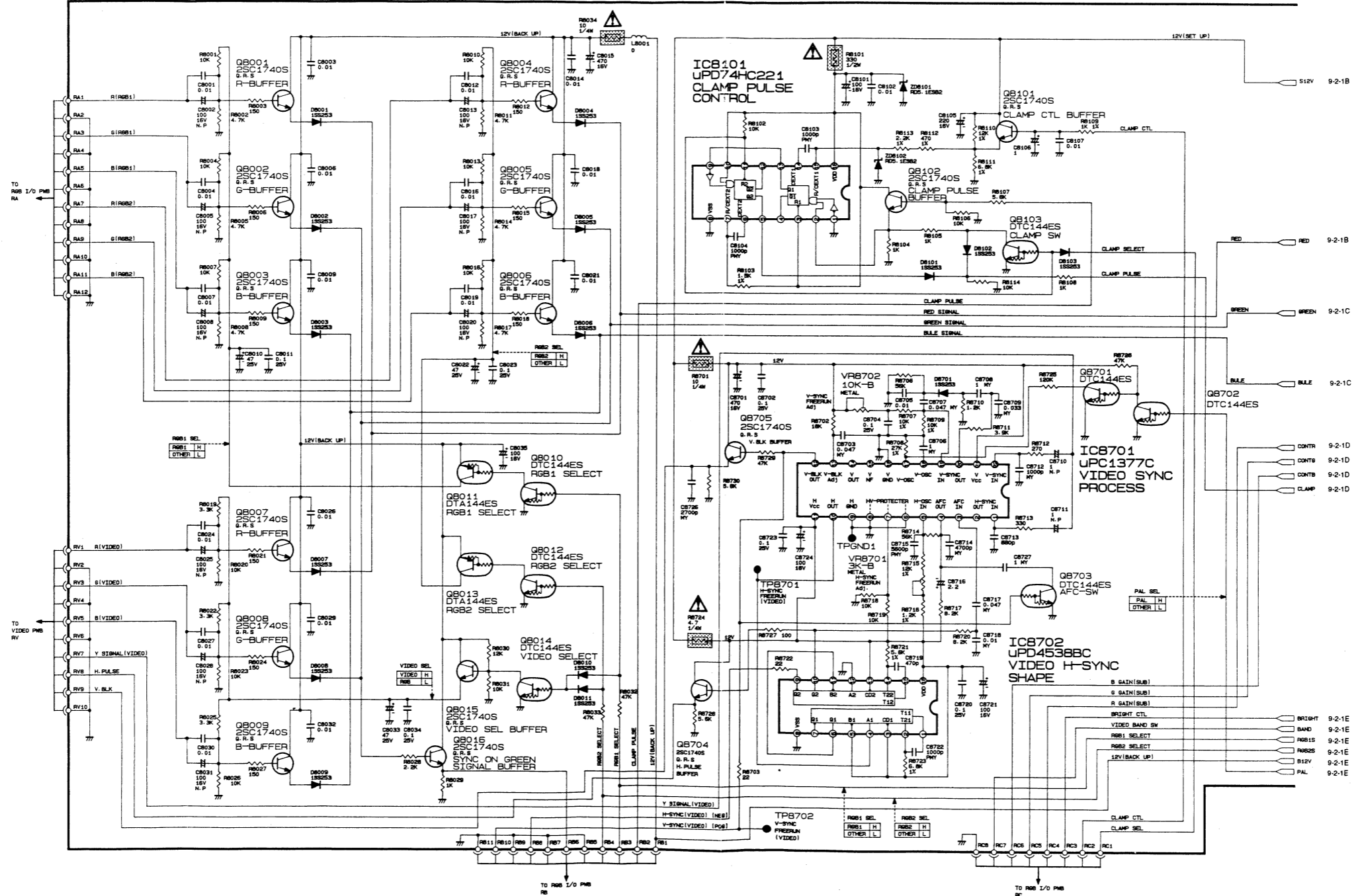


NEC
PWC-3835
RGB I/O PWB
72138353

1 2 3 4 5 6 7 8

A
B
C
D
E
F

RGB PWB PWC-3836
SCHEMATIC DIAGRAM 1/2



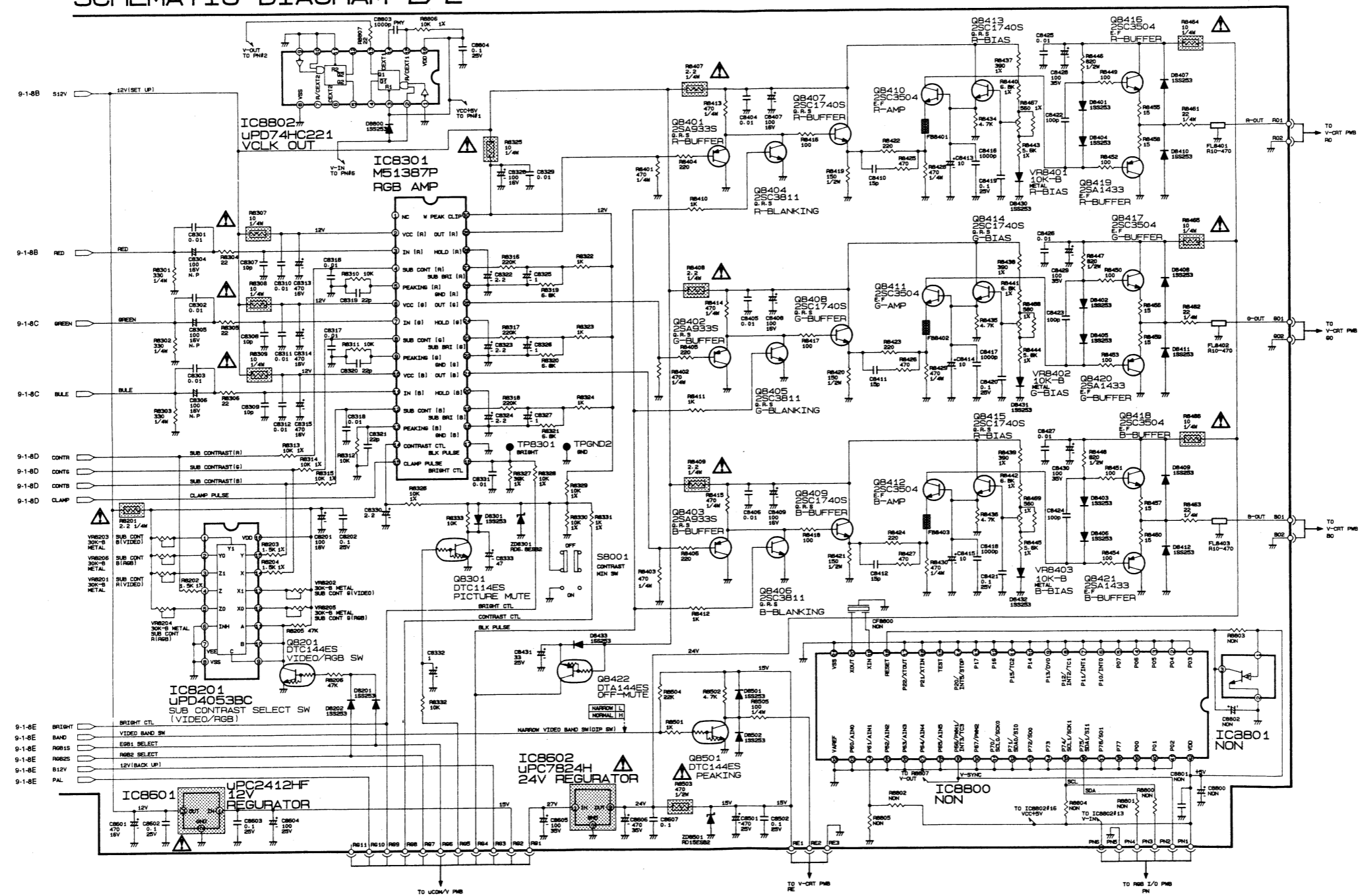
How to read : Address
Page

(EX) 1-1-1A (Address)
Page

1 2 3 4 5 6 7 8

A
B
C
D
E
F

RGB PWB PWC-3836
SCHEMATIC DIAGRAM 2/2



How to read : □-□-□
 ↓
 Address
 ↓
 Page

(EX) 1-1-1A

1	2	3
A	B	

 (Address)
 1-1 Page

RGB PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC8101		
#1	0	—
#2	0.1	—
#3, #10, #16	5.3	—
#4	5.0	—
#5	0	—
#6	0	—
#7	5.2	—
#8	0	—
#9, #13	0.2	—
#11	4.4	CLAMP CTL "VARI" Mode
	0.6	CLAMP "FIX" Mode
#12	5.2	—
#14	0	—
#15	4.5	—
IC8201		
#1	5.3	VIDEO Mode
#2	11.9	ditto
#3	5.5	ditto
#4	5.5	ditto
#5	11.9	ditto
#12	11.9	ditto
#13	5.4	ditto
#14	5.4	ditto
#15	5.3	ditto
#9, #10, #11	11.9	VIDEO Mode
	0	RGB Mode
#6, #7, #8	0	—
#16	11.9	—
IC8301		
#1	0	Input Video Signal
#2, #6, #10	11.7	Input Video Signal
#3, #7, #11	2.7	Input Video Signal
#4, #8, #12	4.5	Input Video Signal
#5, #9, #13	2.7	Input Video Signal
#14	5.2~5.8	CONTRAST Control
#15	0	—
#16	3.0~3.5	BRIGHT Control
#17, #18, #22, #26	0	Input Video Signal
#19, #23, #27	4.0	Input Video Signal
#20, #24, #28	4.5	Input Video Signal
#21, #25, #29	3.0	Input Video Signal
#30	11.9	Input Video Signal
IC8601		
#1	14.8	IN
#2	0	—
#3	12.0	OUT
IC8602		
#1	28.1	IN
#2	0	—
#3	24.0	OUT
IC8701		
#1	4.8	—

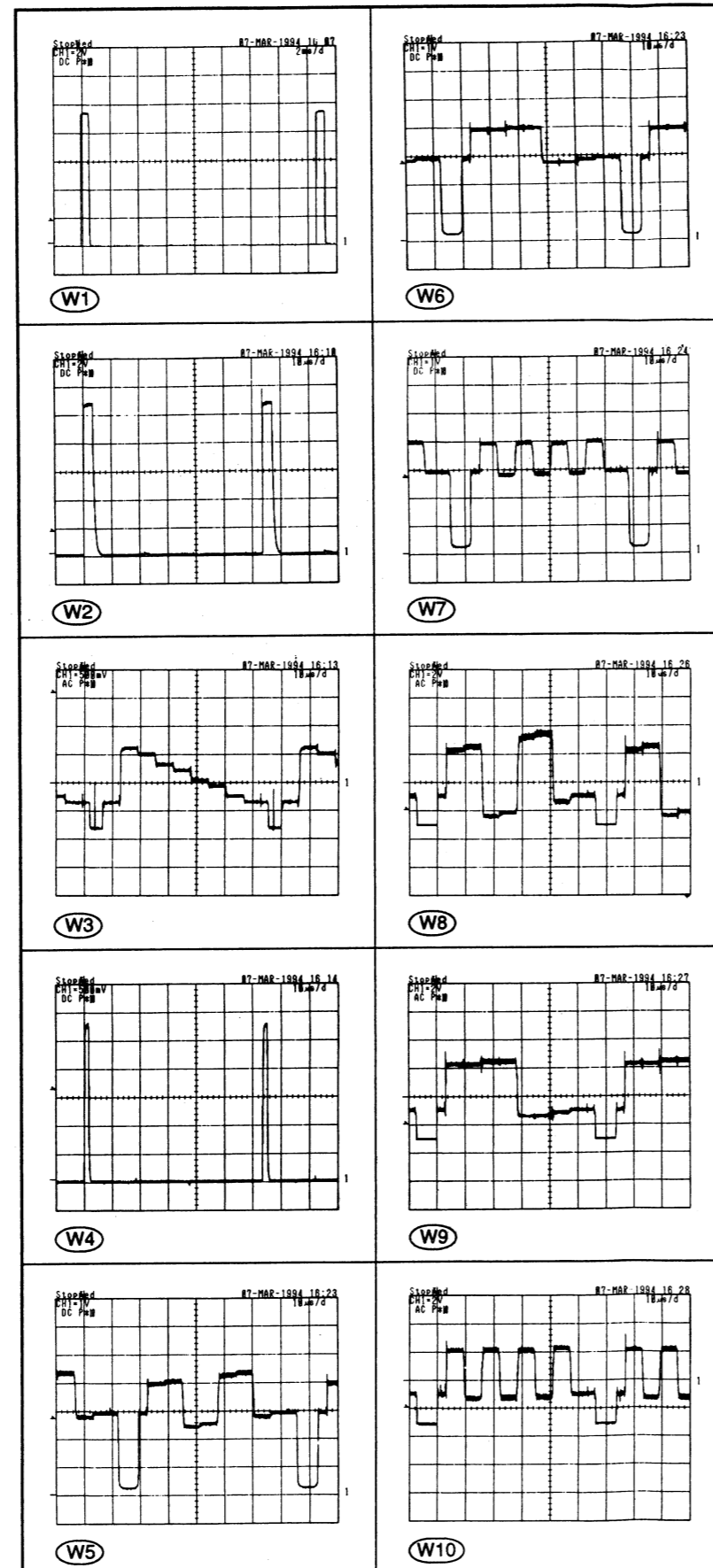
CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC8701		
#2	10.8	—
#3	3.5	—
#4	0	—
#5	6.2	—
#6, #8, #9	0	—
#7	5.9	—
#10	4.5	—
#11	11.9	—
#12	0.4	—
#13	0.2	—
#14, #15	0	—
#16	0	—
#17	3.9	—
#18	6.9	—
#19	4.7	—
#20	1.7	—
#21	11.8	—
#22	4.6	—
IC8702		
#1	0	—
#2	10.5	—
#3, #5, #13, #16	11.9	—
#4	4.5	—
#6, #11	1.4	—
#7	10.4	—
#8, #12	0	—
#9	11.1	—
#10	0.6	—
#14	11.3	—
#15	0	—
Q8001, (E)	2.9	RGB 1 Mode
Q8002, (C)	11.9	—
Q8003, (B)	3.6	RGB 1 mode
Q8004, (E)	2.9	RGB 2 Mode
Q8005, (C)	11.9	—
Q8006, (B)	3.6	RGB 2 Mode
Q8007, (E)	2.9	VIDEO 1, 2 Mode
Q8008, (C)	11.9	—
Q8009, (B)	3.5	VIDEO 1, 2 Mode
Q8010		
(E)	0	—
(C)	0	RGB 1 Mode
	11.8	Other Mode
(B)	2.6	RGB 1 Mode
	0	Other Mode
Q8011		
(E)	11.9	—
(C)	11.8	RGB 1 Mode
	0	Other Mode
(B)	0	RGB 1 Mode
	11.8	Other Mode

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q8012		
(E)	0	—
(C)	0	RGB 2 Mode
	11.8	Other Mode
(B)	2.6	RGB 2 Mode
	0	Other Mode
Q8013		
(E)	11.9	—
(C)	11.8	RGB 2 Mode
	0	Other Mode
(B)	0	RGB 2 Mode
	11.8	Other Mode
Q8014		
(E)	0	—
(C)	5.4	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
(B)	0	VIDEO 1, 2 Mode
	2.1	RGB 1, 2 Mode
Q8015		
(E)	4.8	VIDEO 1, 2 Mode
(C)	0	RGB 1, 2 Mode
(B)	11.9	—
	5.4	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
Q8616		
(E)	1.6	—
(C)	11.9	—
(B)	2.2	—
Q8101		
(E)	3.8~9.2	CLAMP CTL Volume
(C)	11.9	—
(B)	2.1~9.9	CLAMP CTL Volume
Q8102		
(E)	0.1	—
(C)	5.3	—
(B)	0.2	—
Q8103		
(E)	0	—
(C)	0.1	CLAMP SELECT "FIX"
	0	CLAMP SELECT "VARI"
(B)	0.6	CLAMP SELECT "FIX"
	4.5	CLAMP SELECT "VARI"
Q8201		
(E)	0	—
(C)	11.9	VIDEO 1, 2 Mode
	0	RGB 1, 2 Mode
(B)	0	VIDEO 1, 2 Mode
	3.1	RGB 1, 2 Mode
Q8301		
(E)	0	—
(C)	6.4	—
(B)	0	—
Q8401, (E)	3.3	Input Video Signal
Q8402, (C)	0	—
Q8403, (B)	3.0	Input Video Signal
Q8404, (E)	0	—
Q8405, (C)	3.3	Input Video Signal
Q8406, (B)	0.1	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q8407, (E)	2.9	Input Video Signal
Q8408, (C)	11.9	—
Q8409, (B)	3.3	Input Video Signal
Q8410, (E)	4.1	—
Q8411, (C)	10.8	Input Video Signal
Q8412, (B)	4.8	—
Q8413, (E)	4.8	—
Q8414, (C)	11.9	—
Q8415, (B)	5.4	—
Q8416, (E)	11.5	Input Video Signal
Q8417, (C)	23.7	—
Q8418, (B)	12.2	Input Video Signal
Q8419, (E)	11.4	Input Video Signal
Q8420, (C)	0	—
Q8421, (B)	10.8	Input Video Signal
Q8422		
(E)	11.9	—
(C)	0.3	—
(B)	11.9	—
Q8501		
(E)	0	—
(C)	0	VIDEO BAND SW "NORMAL"
	6.6	VIDEO BAND SW "NARROW"
(B)	10.1	VIDEO BAND SW "NORMAL"
	0	VIDEO BAND SW "NARROW"
Q8701		
(E)	0	—
(C)	0	NTSC, M-NTSC Mode
	3.8	PAL Mode
(B)	6.3	NTSC, M-NTSC Mode
	0	PAL Mode
Q8702		
(E)	0	—
(C)	6.3	NTSC, M-NTSC Mode
	0	PAL Mode
(B)	0	NTSC, M-NTSC Mode
	4.6	PAL Mode
Q8703		
(E)	0	—
(C)	0	—
(B)	0.4	—
Q8704		
(E)	0.7	—
(C)	11.9	—
(B)	0.6	—
Q8705		
(E)	0.3	—
(C)	11.8	—
(B)	0.4	—
CONNECTOR "RA"		
All pins	0	No Input RGB1, 2 Signal
CONNECTOR "RV"		
#1	4.0	—
#3	4.0	—

RGB PWB WAVEFORM

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "RV"		
#5	4.0	—
#7	3.6	—
#8	0.7	—
#9	0.3	—
#2, #4, #6, #10	0	—
CONNECTOR "RB"		
#1	12.0	—
#2	0.3	—
#3	6.0	RGB 1 Mode
	0	Other Mode
#4	6.0	RGB 2 Mode
	0	Other Mode
#6	1.7	—
#8	11.1	—
#10	0.4	—
#5, #7, #9, #11	0	—
CONNECTOR "RC"		
#1	4.3	CLAMP SELECT "VARI" Mode
	0	CLAMP SELECT "FIX" Mode
#2	2.0~10.0	CLAMP CTL Volume
#3	3.0~5.1	SUB BRIGHT Volume
#4	4.0~5.3	R GAIN Volume
#5	4.2~5.2	G GAIN Volume
#6	4.0~5.3	B GAIN Volume
#7	10.0	VIDEO BAND SW "NORMAL" Mode
	0	VIDEO BAND SW "NARROW" Mode
#8	0	—
CONNECTOR "RG"		
#1	28.2	—
#2	14.8	—
#3	12.1	—
#4	0.3	—
#5	0	PICTURE MUTE OFF
#6	6.0	RGB 1 Mode
	0	Other Mode
#7	6.0	RGB 2 Mode
	0	Other Mode
#8	4.2~6.9	CONTRAST Control
#9	3.8~4.4	BRIGHT Control (by Remote)
#10	0	NTSC, M-NTSC Mode
	4.6	PAL Mode
#11	0	—
CONNECTOR "RE"		
#1	14.6	—
#2	0	VIDEO BAND "NORMAL" Mode
	6.4	VIDEO BAND "NARROW" Mode
#3	0	—
CONNECTOR "RO", "GO", "BO"		
#1	11.2	Input Video Signal
#2	0	—



1 2 3 4 5 6 7 8

• RGB PWB (COMPONENT SIDE)

A

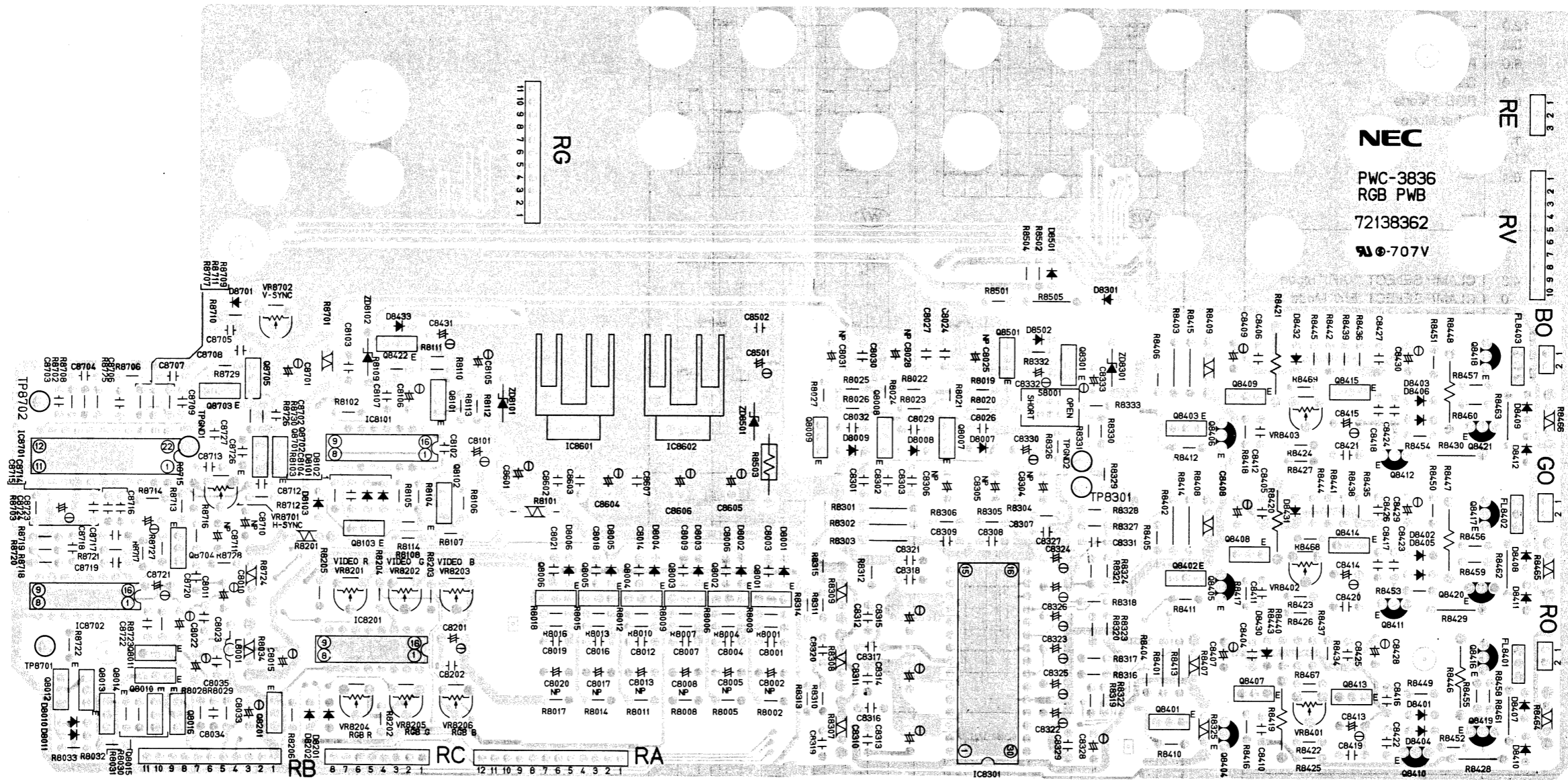
B

C

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E

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• RGB PWB (SOLDER SIDE)

A

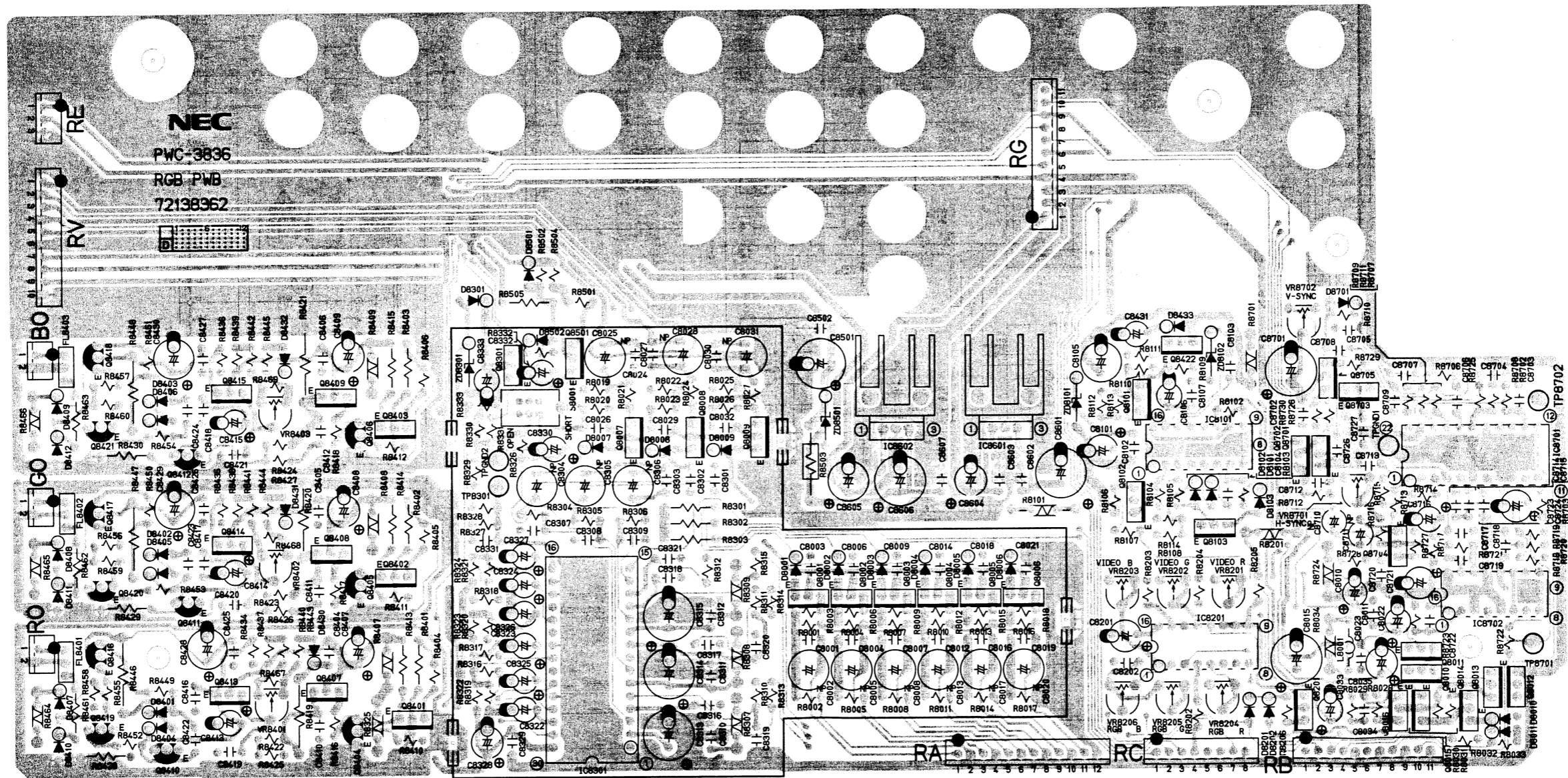
B

C

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E

F



1 2 3 4 5 6 7 8

A

B

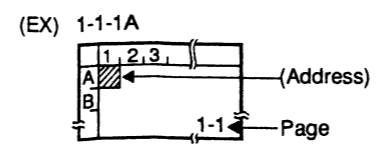
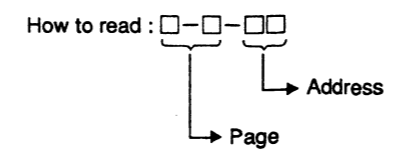
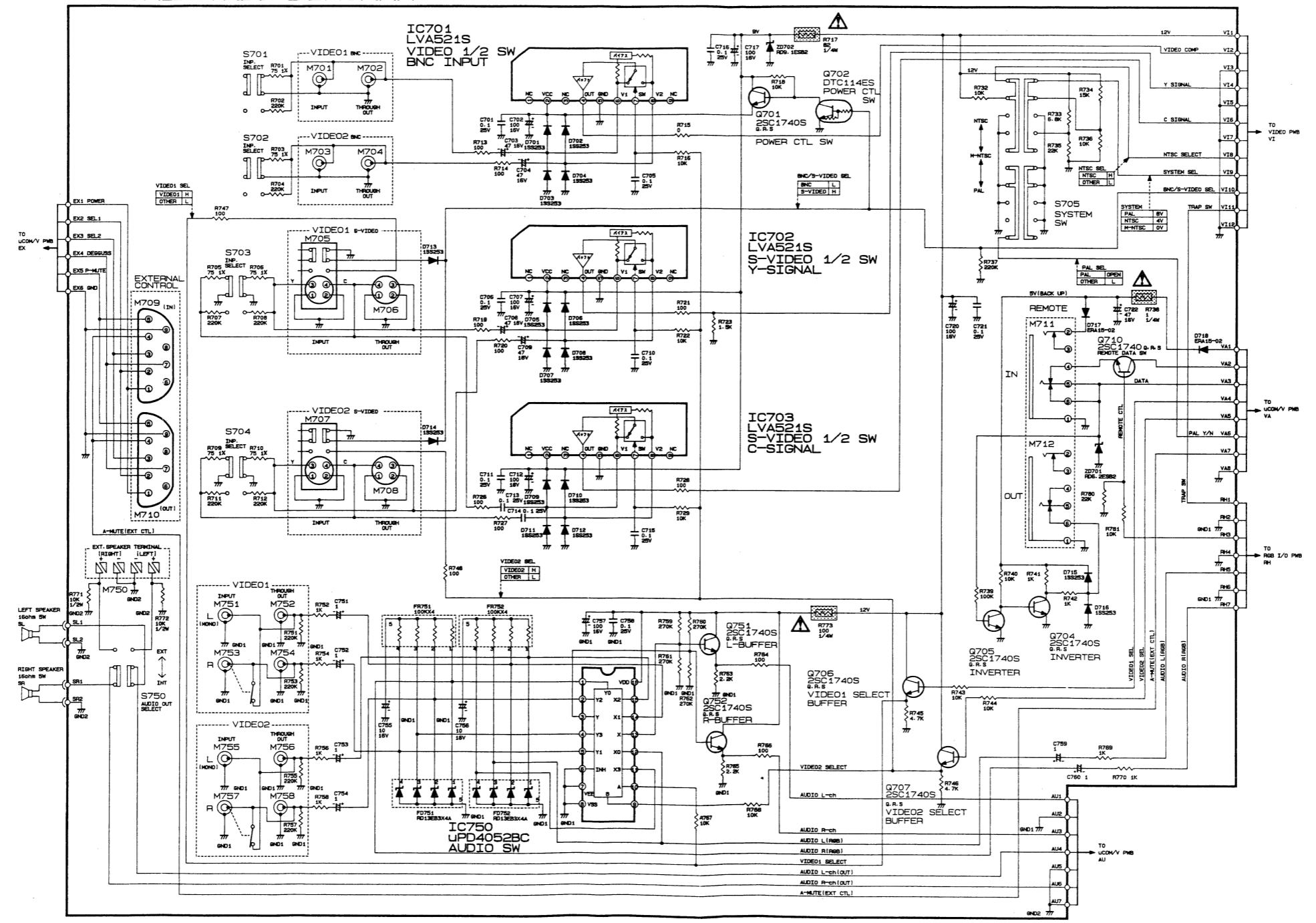
C

D

E

F

VIDEO I/O PWB PWC-3837
SCHEMATIC DIAGRAM



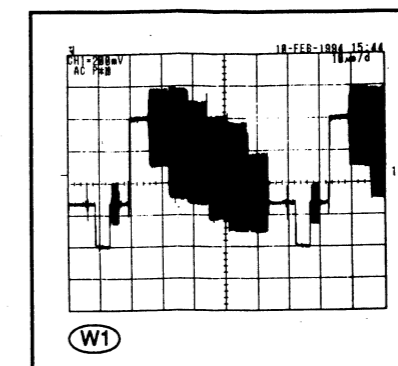
VIDEO I/O PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC701		
#1	0	—
#2	7.8	—
#3	0	—
#4	3.3	—
#5	0	—
#6	4.0	—
#7	6.5	VIDEO 2 Mode
#8	4.1	—
#9	0	—
IC702		
#1	0	—
#2	8.8	—
#3	0	—
#4	3.8	—
#5	0	—
#6	4.6	—
#7	6.4	VIDEO 2 Mode
#8	4.6	—
#9	0	—
IC703		
#1	0	—
#2	8.8	—
#3	0	—
#4	3.8	—
#5	0	—
#6	4.6	—
#7	6.4	VIDEO 2 Mode
#8	4.6	—
#9	0	—
IC750		
#1	4.6	—
#2	4.6	—
#3	4.7	—
#4	4.6	—
#5	4.7	—
#6, #7, #8	0	—
#9	10.9	VIDEO 2 Mode
#10	11.0	VIDEO 1 Mode
#11	4.7	—
#12	4.7	—
#13	4.7	—
#14	4.7	—
#15	4.7	—
#16	11.4	—
Q701		
(E)	7.8	No Input S-VIDEO
(C)	8.8	—
(B)	8.5	No Input S-VIDEO
Q702		
(E)	0	—
(C)	8.5	No Input S-VIDEO
(B)	0	No Input S-VIDEO

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q704		
(E)	0	—
(C)	5.3	—
(B)	0	—
Q705		
(E)	0	—
(C)	0	—
(B)	0.6	—
Q706		
(E)	11.0	VIDEO 1 Mode
(C)	11.8	—
(B)	11.0	VIDEO 1 Mode
Q707		
(E)	10.9	VIDEO 2 Mode
(C)	11.8	—
(B)	11.5	VIDEO 2 Mode
Q751		
(E)	4.1	—
(C)	11.4	—
(B)	4.7	—
Q752		
(E)	4.1	—
(C)	11.4	—
(B)	4.7	—
CONNECTOR "VI"		
#1	11.8	—
#2	3.3	—
#4	3.6	—
#6	3.8	—
#8	6.6	NTSC Mode
#9	3.8	NTSC Mode
#10	0	M-NTSC Mode
#11	0	No Input S-VIDEO
#11	12.0	TRAP Switch "ON"
#3, #5, #7, #12	0	—
CONNECTOR "RH"		
#1	12.0	TRAP Switch "ON"
#2	—	—
#3	12.0	Remote Control SW "ON"
#4, #6	0	—
#5, #7	0	No Input "RGB AUDIO"
CONNECTOR "VA"		
#1	5.9	—
#2	4.7	—
#3	4.7	—
#4	11.8	VIDEO 1 Mode
#5	11.7	VIDEO 2 Mode
#6	4.7	PAL Mode

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "VA"		
#7	0	EXT CTL Mode "OFF"
#8	0	—
CONNECTOR "AU"		
#1	4.1	—
#3	4.1	—
#4, #6	0	—
#2, #5, #7	0	—
CONNECTOR "EX"		
#1	3.9	No Control EXTERNAL
#2	3.8	ditto
#3	3.9	ditto
#4	4.0	ditto
#5	3.9	ditto
#6	0	—
CONNECTOR "SL"		
#1	0	No Output SOUND
#2	0	—
CONNECTOR "SR"		
#1	0	No Output SOUND
#2	0	—

VIDEO I/O PWB WAVEFORM



1 2 3 4 5 6 7 8

VIDEO PWB PWC-3838
SCHEMATIC DIAGRAM 2/2

A

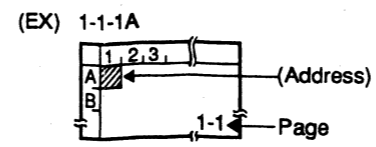
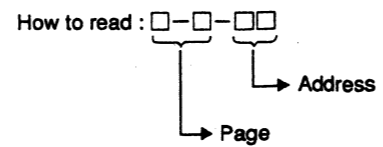
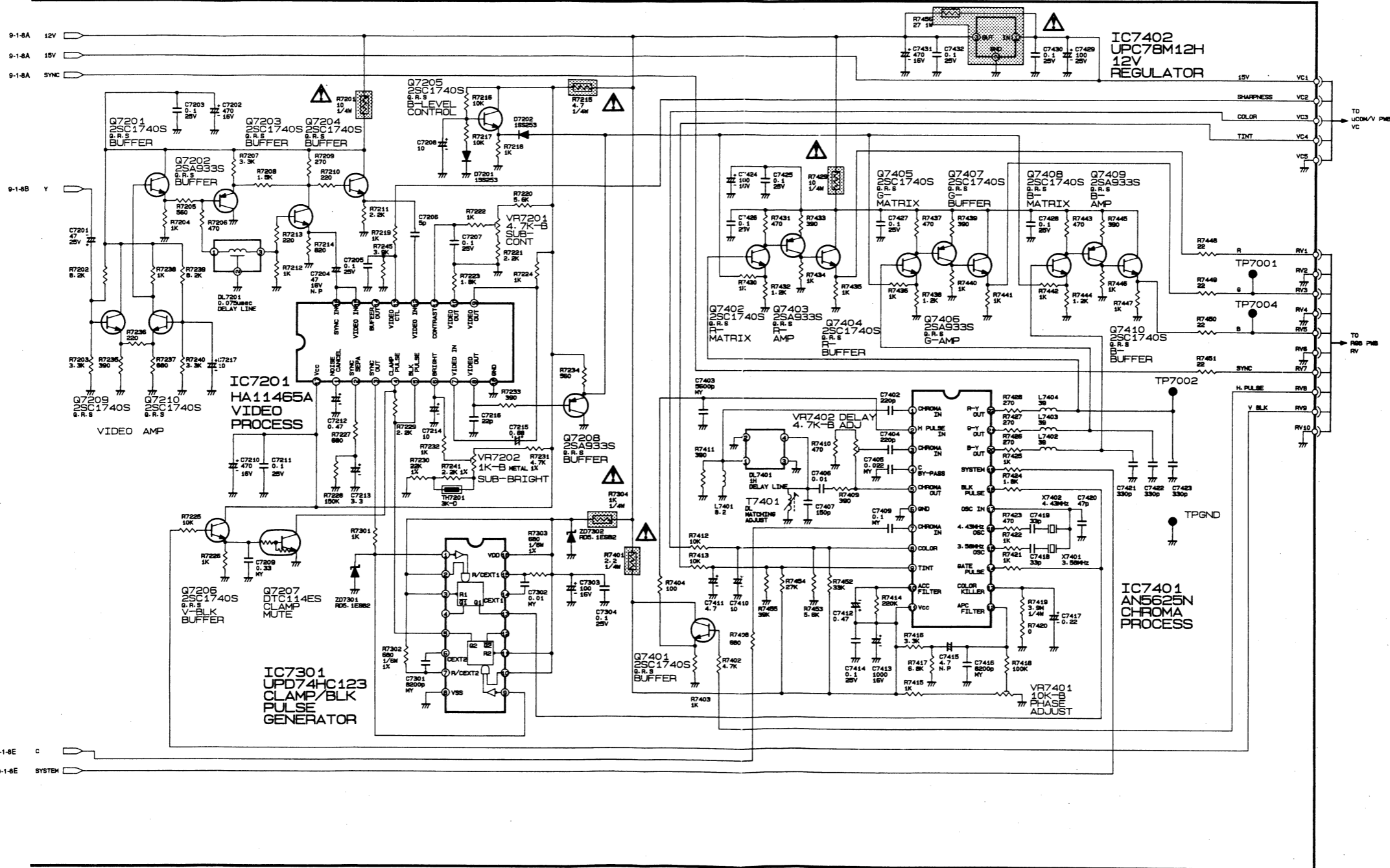
B

C

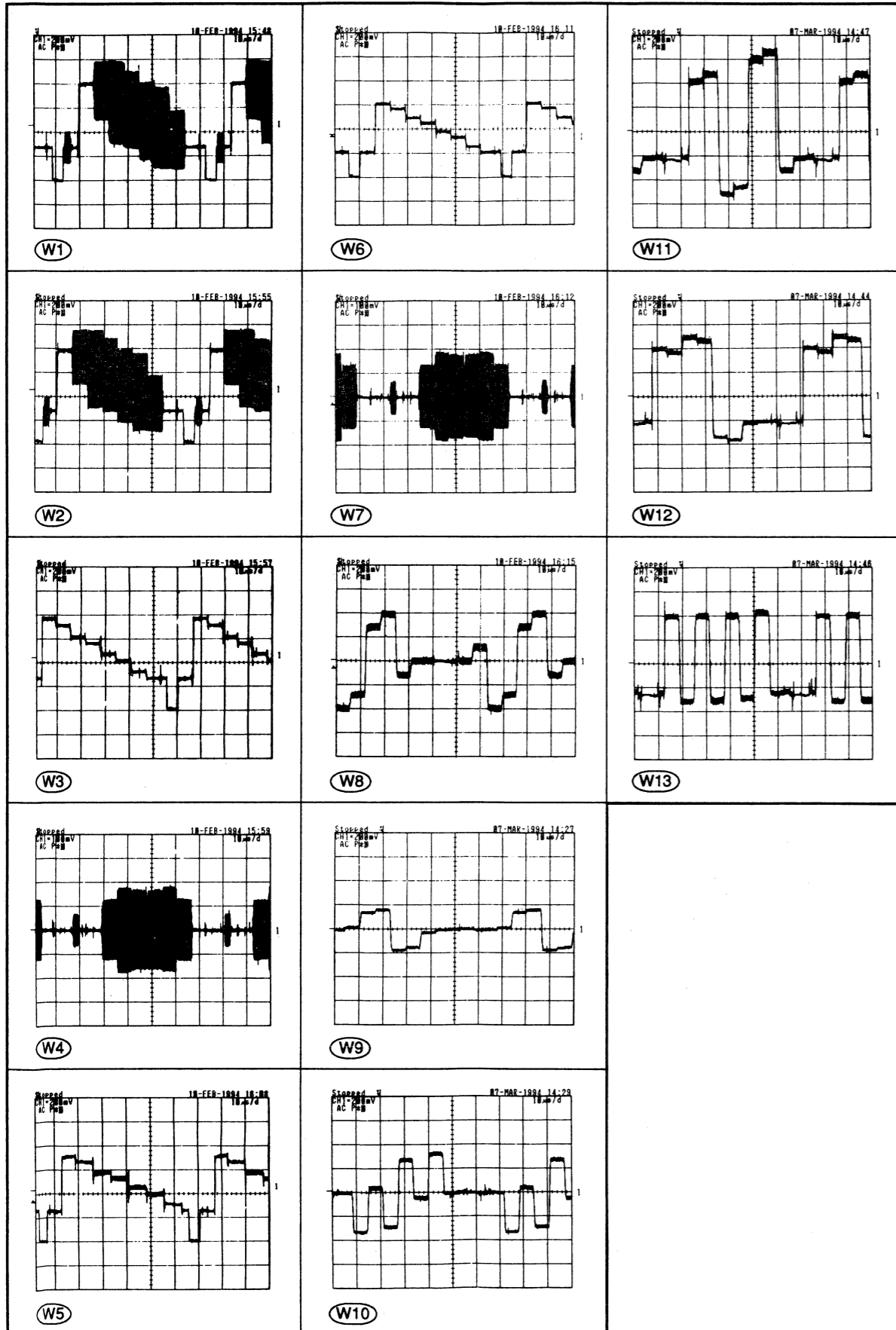
D

E

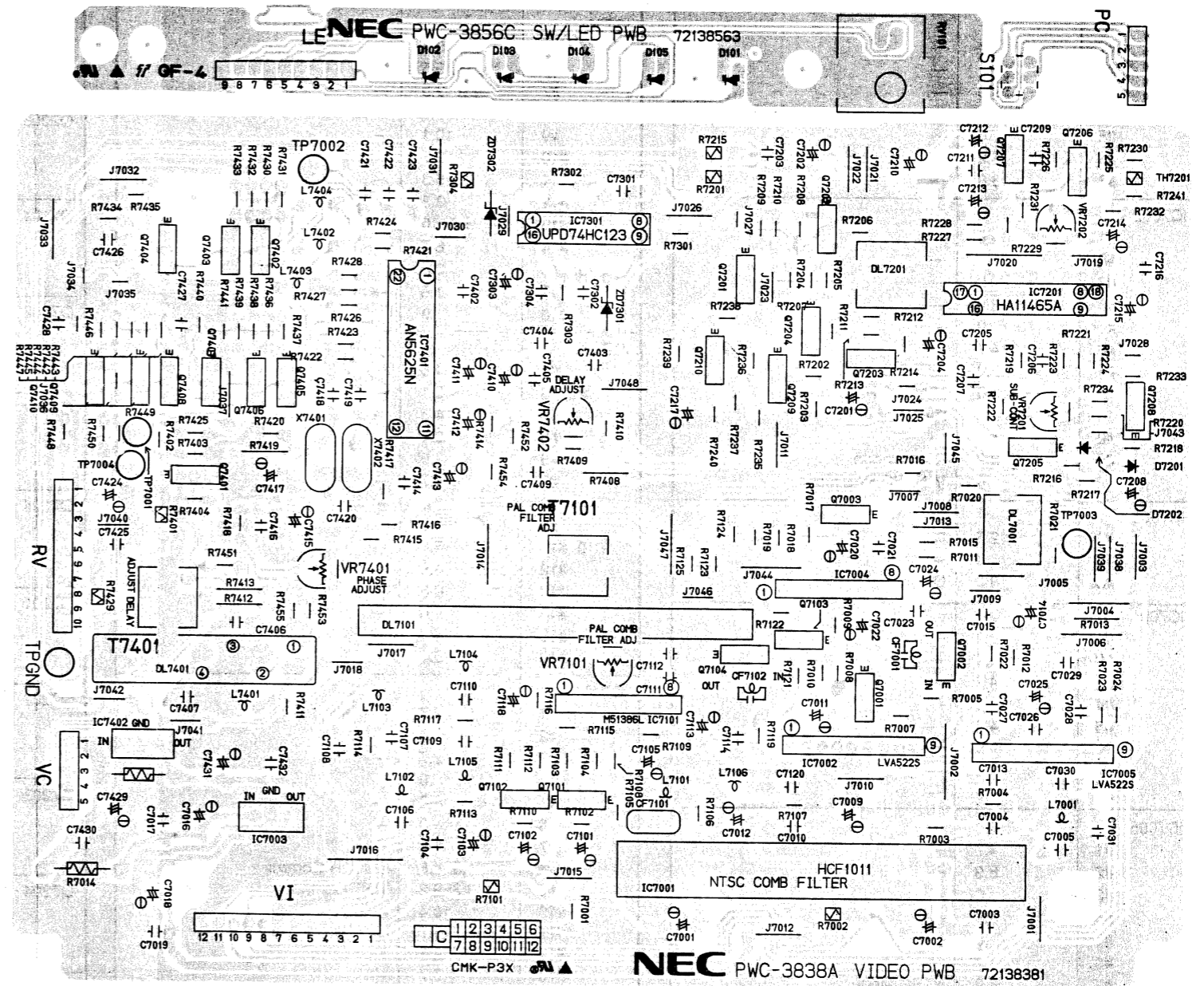
F



VIDEO PWB WAVEFORM



• VIDEO PWB (SOLDER SIDE)



1 2 3 4 5 6 7 8

V-CRT PWB PWC-3834 SCHEMATIC DIAGRAM

A

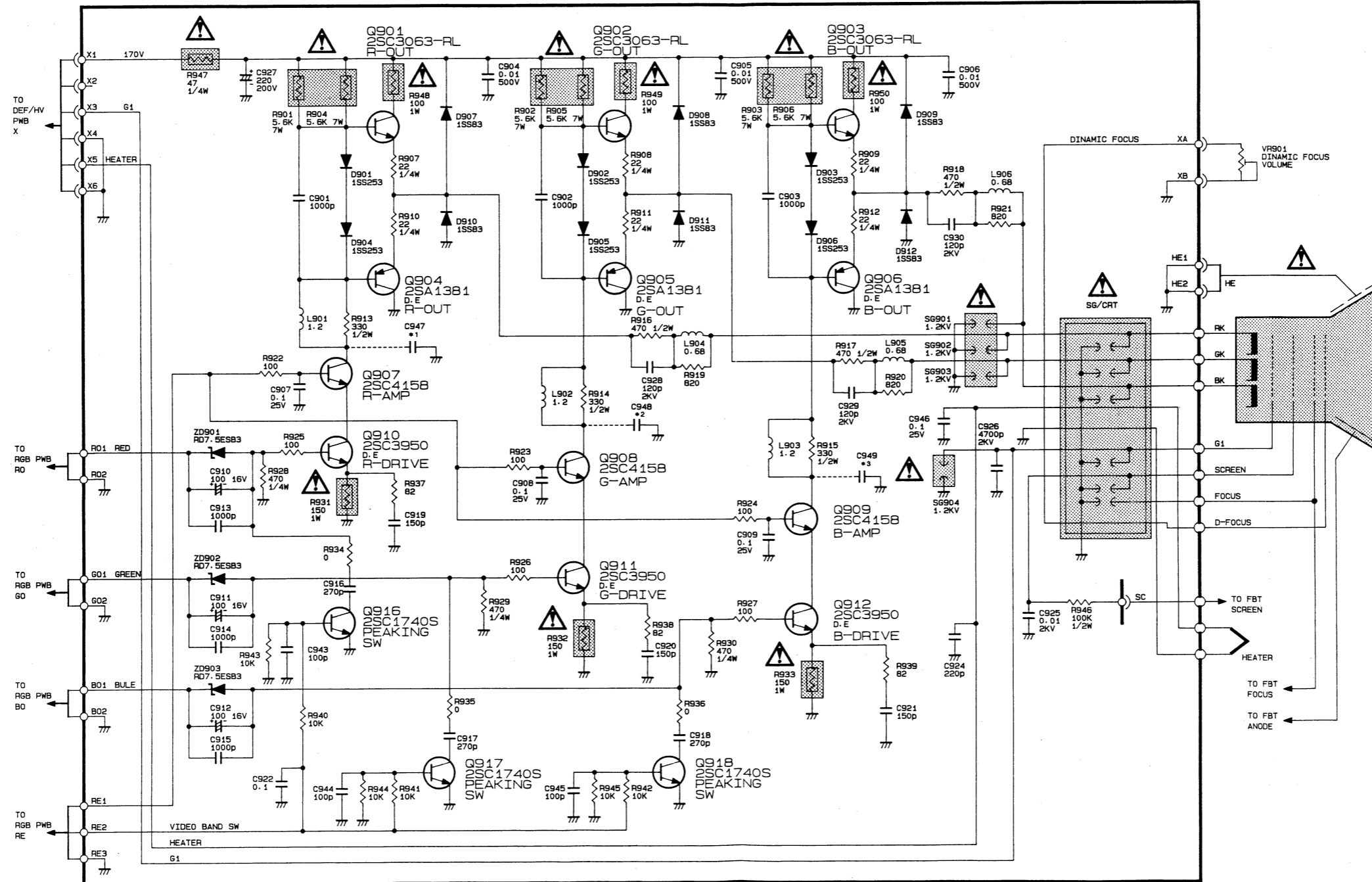
B

C

D

E

F



*1~*3
NON → XM-2950
15P → XM-2950G

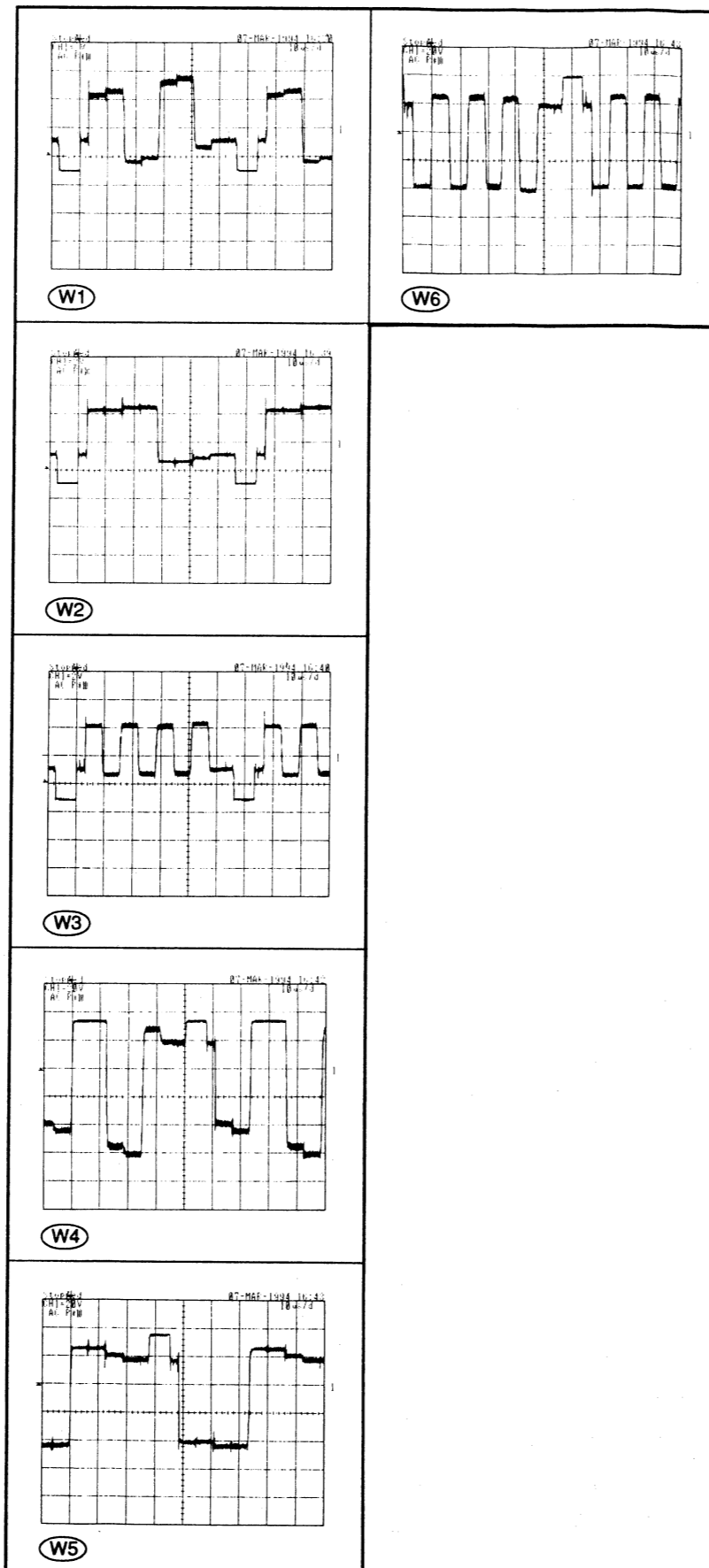
How to read : □-□-□
Address
Page

(EX) 1-1-1A
Address
Page

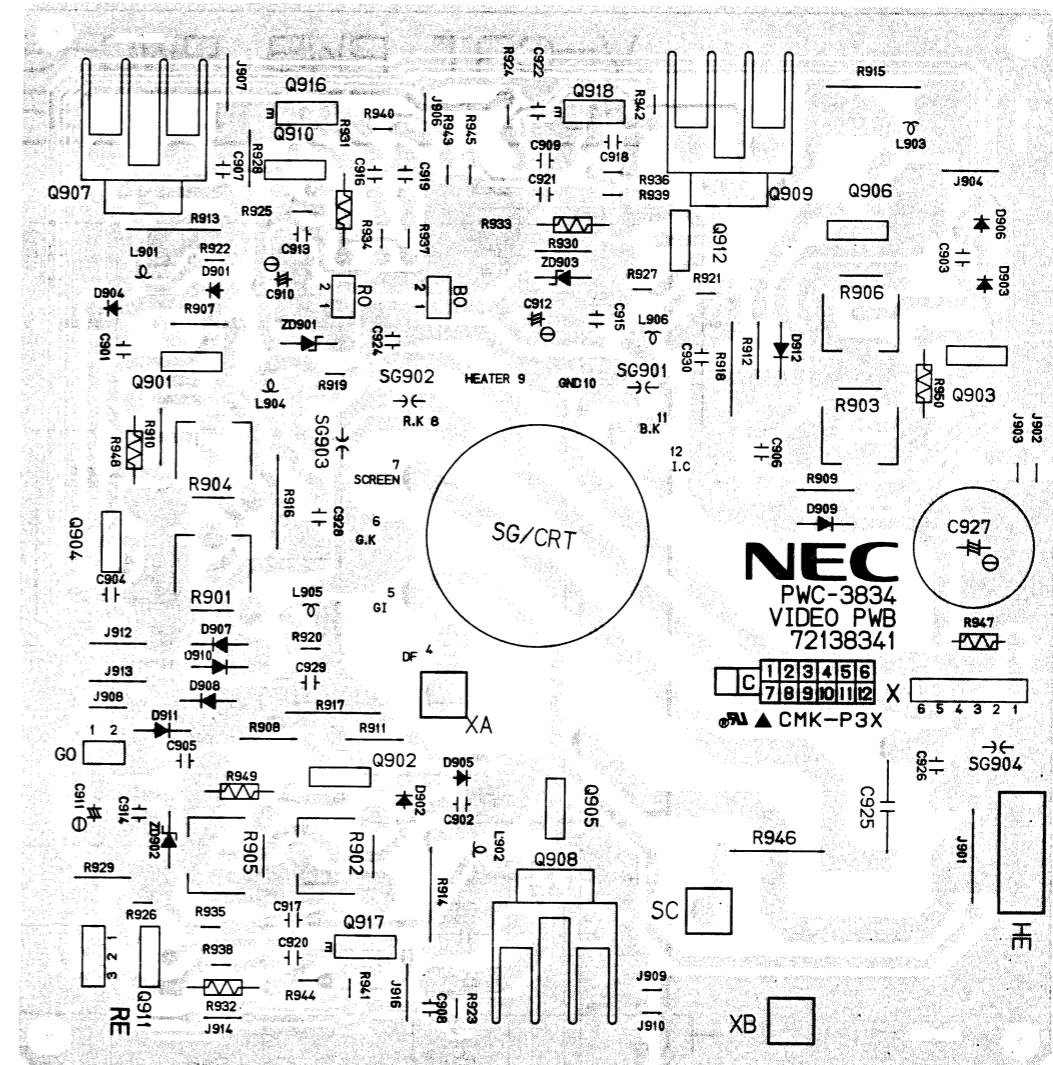
V-CRT PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q901, (E)	134	Input VIDEO Signal
Q902, (C)	174	ditto
Q903 (B)	134	ditto
Q904, (E)	134	Input VIDEO Signal
Q905, (C)	0	—
Q906 (B)	133	Input VIDEO Signal
Q907, (E)	14.1	—
Q908, (C)	134	Input VIDEO Signal
Q909 (B)	14.7	—
Q910, (E)	2.1	Input VIDEO Signal
Q911, (C)	14.1	—
Q912 (B)	2.6	Input VIDEO Signal
Q916, (E)	0	—
Q917, (C)	2.1	VIDEO BAND "NORMAL" Mode
Q918 (E)	0	VIDEO BAND "NARROW" Mode
(C)	0	VIDEO BAND "NORMAL" Mode
(B)	0.7	VIDEO BAND "NARROW" Mode
CONNECTOR "X"		
#1	177	—
#3	0.3	—
#5	6.2	—
#4, #6	0	—
CONNECTOR "RO",		
#1	11.2	Input VIDEO Signal
"GO"		
#2	0	—
"BO"		
CONNECTOR "RE"		
#1	14.6	—
#2	0	VIDEO BAND "NORMAL" Mode
#3	6.4	VIDEO BAND "NARROW" Mode
#3	0	—

V-CRT PWB WAVEFORM



V-CRT PWB (SOLDER SIDE)



1 2 3 4 5 6 7 8

A

B

C

D

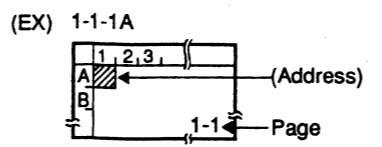
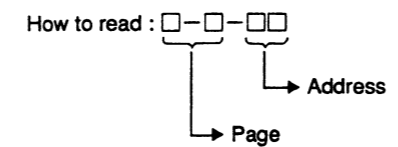
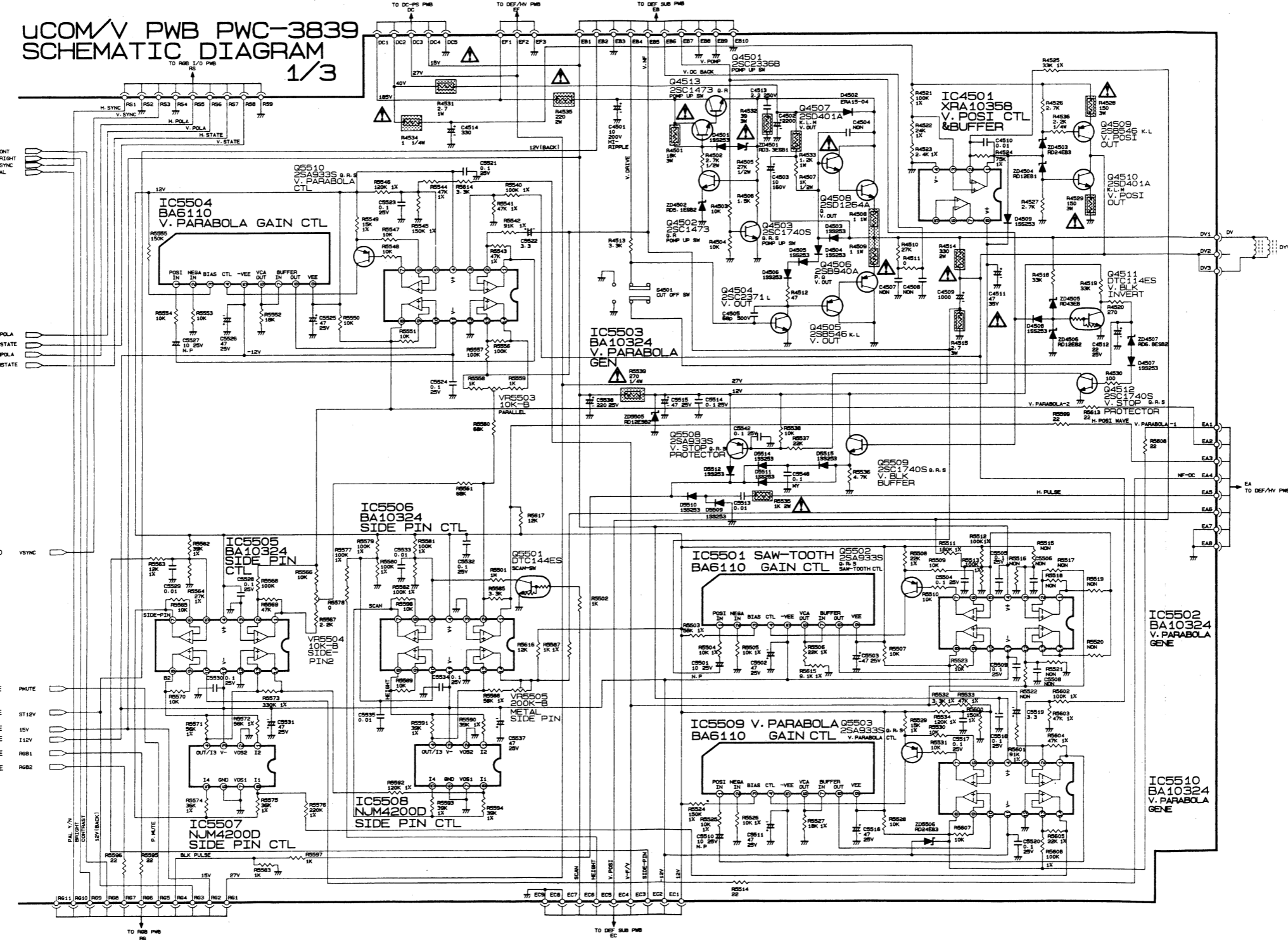
E

F

UCOM/V PWB PWC-3839
SCHEMATIC DIAGRAM
1/3

9-2-8A CONT BRIGHT
9-2-8A HSYNC
9-2-8A V.SYNC
9-2-8B VPOLA
9-2-8B VSTATE
9-2-8C VPOLA
9-2-8C VSTATE

9-2-8D VSYNC
9-2-8E PHUTE
9-2-8E ST12V
9-2-8E 15V
9-2-8E 12V
9-2-8E RB1
9-2-8E RB2



1 2 3 4 5 6 7 8

A

B

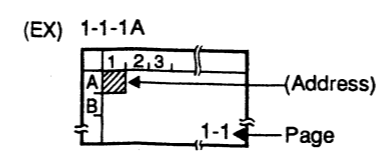
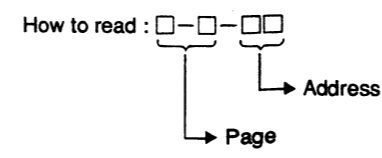
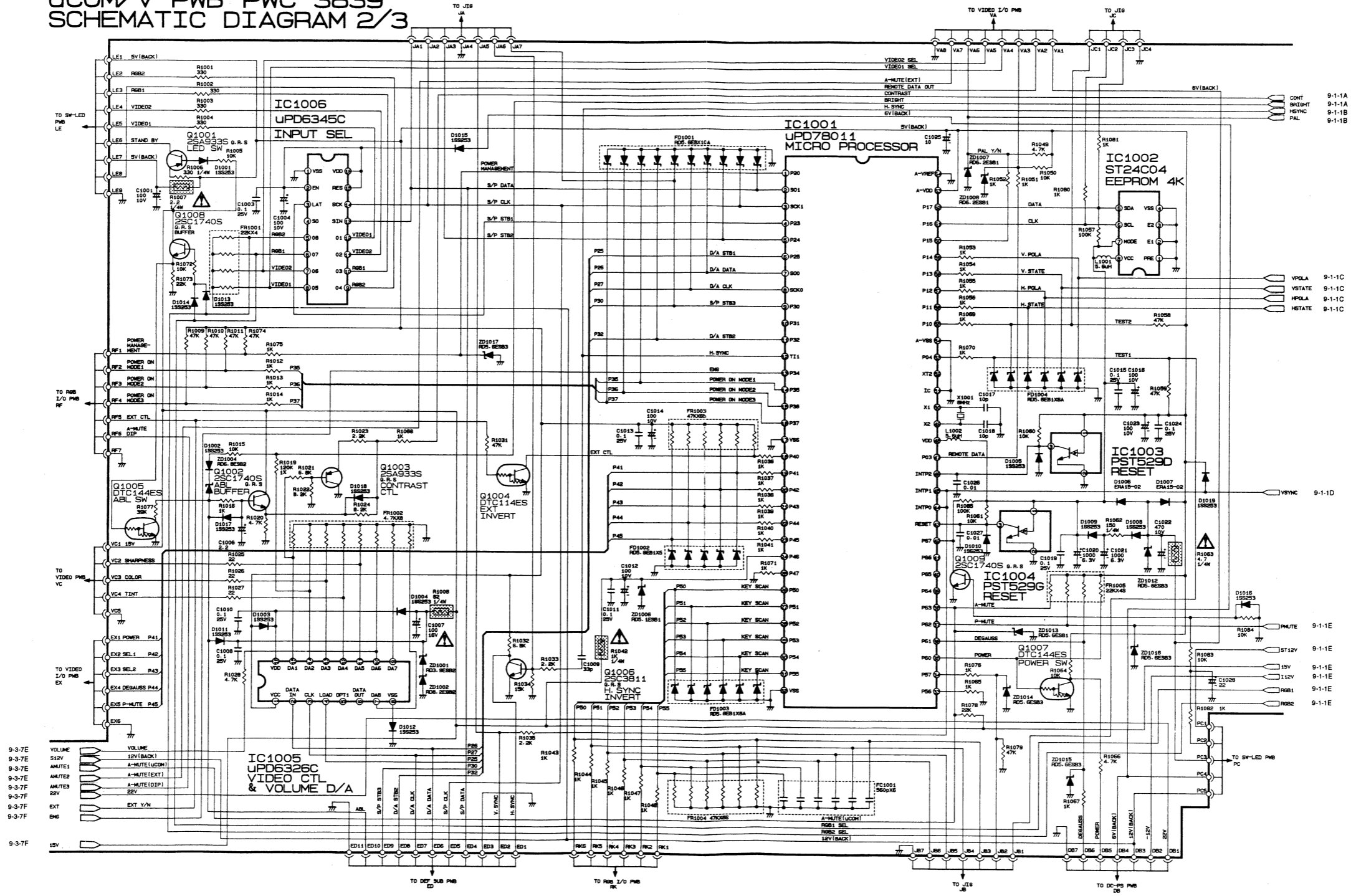
C

D

E

F

UCOM/V PWB PWC-3839
SCHEMATIC DIAGRAM 2/3



9-1-1A
9-1-1A
9-1-1B
9-1-1B

9-1-1C
9-1-1C
9-1-1C
9-1-1C

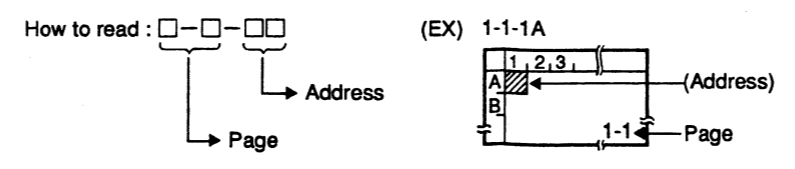
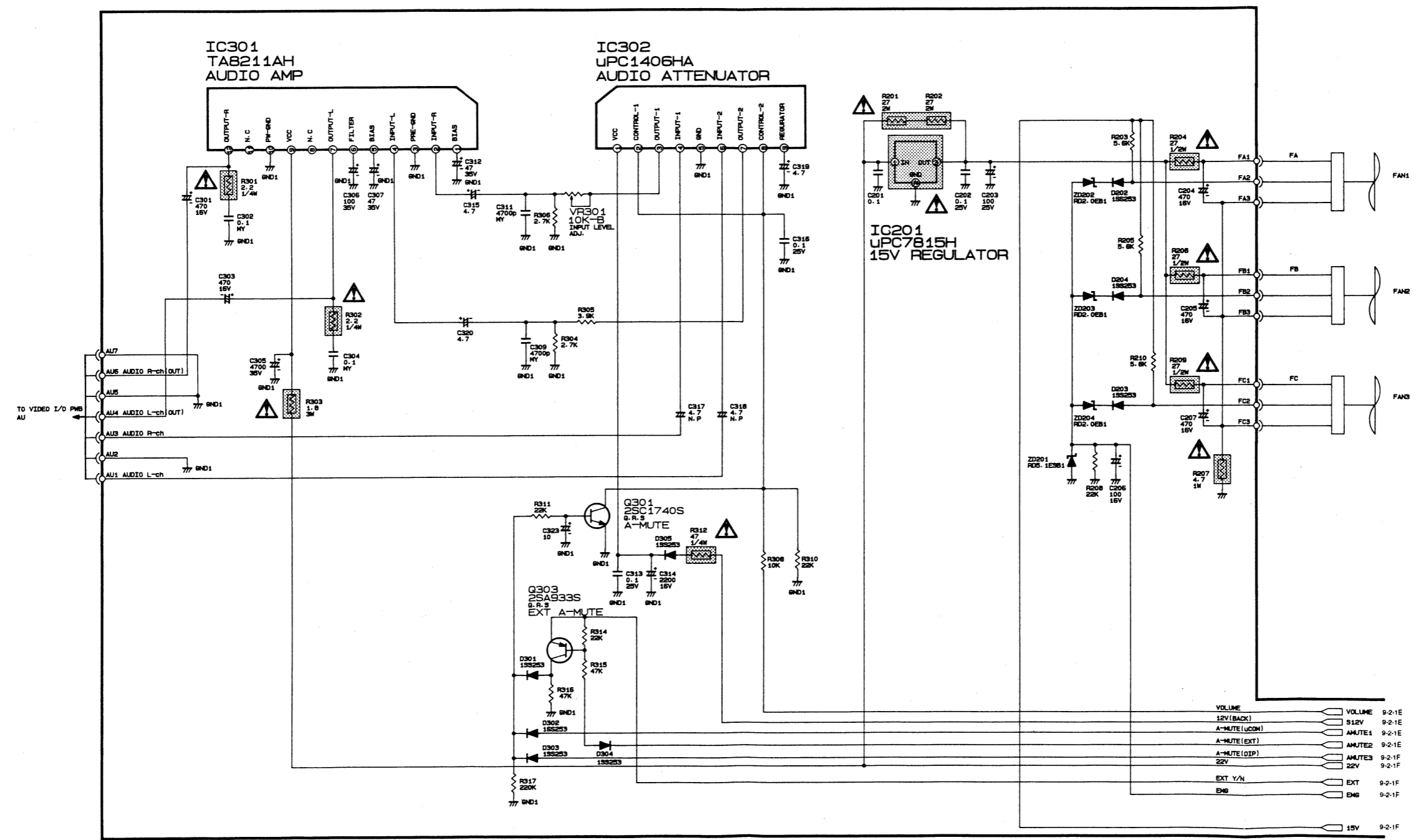
9-1-1D

9-1-1E
9-1-1E
9-1-1E
9-1-1E
9-1-1E

1 2 3 4 5 6 7 8

UCOM/V PWB PWC-3839
SCHEMATIC DIAGRAM 3/3

A
B
C
D
E
F



- VOLUME 9-2-1E
- 12V (BACK) 9-2-1E
- A-MUTE (UCOM) 9-2-1E
- A-MUTE (EXT) 9-2-1E
- A-MUTE (DIP) 9-2-1F
- 22V 9-2-1F
- EXT V/N 9-2-1F
- EMB 9-2-1F
- 15V 9-2-1F

μCOM/V PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC5501		
#1	-0.9	—
#2	-0.9	—
#3	-10.7	—
#4	-10.7	—
#5	-11.9	—
#6	-1.1	—
#7	-1.1	—
#8	-1.0	—
#9	12.0	—
IC5502		
#1	13.6	—
#2	0.3	—
#3	0.3	—
#4	14.8	—
#5	7.0~4.9	V-POSITION DOWN~UP
#6	7.0~4.9	V-POSITION DOWN~UP
#7	6.4~4.3	V-POSITION DOWN~UP
#8	-1.0	—
#9	-1.0	—
#10	-1.0	—
#11	-11.9	—
#12	0.3	—
#13	13.6	—
#14	13.6	—
IC5503		
#1	6.4	—
#2	6.4	—
#3	6.3	—
#4	12.0	—
#5	9.1~3.4	fv: 40Hz~120Hz
#6	9.1~3.4	fv: 40Hz~120Hz
#7	8.5~2.8	fv: 40Hz~120Hz
#8	-0.3	—
#9	-0.3	—
#10	-0.3	—
#11	-11.9	—
#12	0	—
#13	0	—
#14	0	—
IC5504		
#1	-0.2	—
#2	-0.2	—
#3	-10.7	—
#4	-10.7	—
#5	-11.9	—
#6	-0.3	—
#7	-0.3	—
#8	-0.3	—
#9	12.0	—
IC5505		
#1	0	—
#2	0	—
#3	0	—
#4	12.0	—
#5	8.3~3.3	SIDE PIN PIN~BARREL
#6	8.3~3.3	SIDE PIN PIN~BARREL
#7	8.3~3.3	SIDE PIN PIN~BARREL
#8	2.8	—
#9	2.8	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC5505		
#10	2.8	—
#11	-11.9	—
#12	0	—
#13	0	—
#14	0	—
IC5506		
#1	0	—
#2	0	—
#3	0	—
#4	12.0	—
#5	5.7	—
#6	5.7	—
#7	5.7	—
#8	6.8	—
#9	6.8	—
#10	6.8	—
#11	-11.9	—
#12	0	—
#13	0	—
#14	0	—
IC5507		
#1	0	—
#2, #6, #7	0	—
#3	-11.9	—
#4	0	—
#5	0	—
#8	0	—
IC5508		
#1	0	—
#2, #6, #7	0	—
#3	-11.9	—
#4	0	—
#5	0	—
#8	0	—
IC5509		
#1	0	—
#2	0	—
#3	-10.7	—
#4	-10.7	—
#5	-11.9	—
#6	-0.1	—
#7	-0.1	—
#8	0	—
#9	12.0	—
IC5510		
#1	6.4	—
#2	6.4	—
#3	6.4	—
#4	14.8	—
#5	9.1~3.4	fv: 40Hz~120Hz
#6	9.1~3.4	fv: 40Hz~120Hz
#7	8.5~2.8	fv: 40Hz~120Hz
#8	0	—
#8	0	—
#10	0	—
#11	-11.9	—
#12	0	—
#13	0	—
#14	0	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC4501		
#1	1.8~24.4	V POSITION DOWN~UP
#2	8.2	—
#3	8.2	—
#4	0	—
#5	0.4	—
#6	0.4	—
#7	0	—
#8	27.8	—
Q5501		
(E)	0	—
(C)	5.4	SCAN SELECT UNDER
(B)	0	SCAN SELECT OVER
	0	SCAN SELECT UNDER
	7.6	SCAN SELECT OVER
Q5502		
(E)	7.0~4.9	V POSITION DOWN~UP
(C)	-10.7	—
(B)	6.4~4.3	V POSITION DOWN~UP
Q5503		
(E)	9.1~3.4	fv: 40Hz~120Hz
(C)	-10.7	—
(B)	8.5~2.8	fv: 40Hz~120Hz
Q5508		
(E)	12.0	—
(C)	0	—
(B)	12.0	—
Q5509		
(E)	0.2	—
(C)	12.0	—
(B)	0.2	—
Q5510		
(E)	9.2~3.5	fv: 40Hz~120Hz
(C)	-10.5	—
(B)	8.6~2.9	fv: 40Hz~120Hz
Q4501		
(E)	39.4	—
(C)	180.2	—
(B)	35.6	—
Q4502		
(E)	5.2	—
(C)	7.3	—
(B)	5.9	—
Q4503		
(E)	0	—
(C)	5.8	—
(B)	0.02	—
Q4504		
(E)	0	—
(C)	0.6	—
(B)	19.9	—
Q4505		
(E)	20.2	—
(C)	0	—
(B)	19.9	—
Q4506		
(E)	20.7	—
(C)	0	—
(B)	20.2	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q4507		
(E)	21.8	—
(C)	39.4	—
(B)	22.2	—
Q4508		
(E)	21.2	—
(C)	39.4	—
(B)	21.8	—
Q4509		
(E)	26.9~39.2	V POSITION DOWN~UP
(C)	21.1~19.9	V POSITION DOWN~UP
(B)	26.4~39.2	V POSITION DOWN~UP
Q4510		
(E)	0~12.5	—
(C)	21.1~19.9	—
(B)	0~13.1	—
Q4511		
(E)	0	—
(C)	4.5~1.9	fv: 40Hz~120Hz
(B)	0.2	—
Q4512		
(E)	0	—
(C)	11.9	—
(B)	0	—
Q4513		
(E)	35.6	—
(C)	180.2	—
(B)	35.9	—
CONNECTOR "RS"		
#1	0.3	—
#2, #4, #9	0	—
#3	0.3	—
#5	0	—
#6	4.2	H SYNC POLA: POSI
#7	4.2	H SYNC POLA: NEG
#8	4.2	V SYNC POLA: POSI
	4.2	V SYNC POLA: NEG
	0	NO SYNC or SYNC ON GREEN
	4.2	SEPARATE or COMPOSITE SYNC
	0	NO SYNC or COMPOSITE SYNC
	4.2	SEPARATE SYNC
CONNECTOR "DC"		
#1	185.9	—
#2	39.3	—
#3	28.2	—
#4	14.8	—
#5	0	—
CONNECTOR "EF"		
#1	185.9	—
#2	28.2	—
#3	0	—
CONNECTOR "EB"		
#1	14.8	—
#2	12.1	—
#3, #8, #9, #10	0	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "EB"		
#4	0.8	—
#5	0	—
#6	16.8	—
#7	0.2	—
CONNECTOR "DV"		
#1	20.5	—
#2, #3	20.6	—
CONNECTOR "EA"		
#1	0.1	—
#2	0.3	—
#3	0	—
#4	2.6~8.8	fu: 15.5kHz Width Min~ fu:50kHz Width Max
#5	0.3	—
#6	0.2	—
#7, #8	0	—
CONNECTOR "EC"		
#1	12.1	—
#2	-11.7	—
#3	11.1~1.1	SIDE PIN MIN-MAX
#4	11.1~1.1	fv: 40Hz~120Hz
#5	11.1~1.1	V POSITION DOWN-UP
#6	1.1~11.1	V HEIGHT MIN-MAX
#7	7.6	SCAN SELECT: OVER
#8	0	SCAN SELECT: UNDER
#9	0	—
CONNECTOR "RG"		
#1	28.1	—
#2	14.7	—
#3	12.1	—
#4	0.3	—
#5	0	NORMAL
#6	2.8	P-MUTE OPERATED
#7	0	VIDEO 1, 2, RGB 2 SELECTED
#8	6.0	RGB 1 SELECTED
#9	0	VIDEO 1, 2, RGB 1 SELECTED
#10	6.0	RGB 2 SELECTED
#11	4.2~6.9	CONTRAST MIN-MAX
	3.7~4.3	BRIGHT MIN-MAX
	0	NTSC, M-NTSC SELECTED
	4.6	PAL SELECTED
	0	—
IC1001		
#1	4.3	—
#2	0.1	—
#3	4.9	—
#4, #5, #6	0	—
#7	0.1	—
#8	4.7	—
#9, #10, #11	0	—
#12	0.3	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC1001		
#13	0.4	—
#14, #15, #16	3.8	—
#14	3.8	NORMAL
#15	0	DIP SW1 #1pin ON
#16	3.8	NORMAL
#17	0	DIP SW1 #2pin ON
#18	3.8	NORMAL
#19	0	DIP SW1 #3pin ON
#20	5.0	NORMAL
#21	4.0	NORMAL
#22	0	EXT CTL SEL1 ON
#23	4.0	NORMAL
#24	4.0	NORMAL
#25~#35	0	EXT CTL SEL1 ON
#36	4.0	NORMAL
#37	0	EXT CTL DEGAUSS ON
#38	4.0	NORMAL
#39~#41	0	EXT CTL P-MUTE ON
#42, #43	5.1	—
#44, #45	0	—
#46	4.9	NORMAL
#47	0	DEGAUSS OPERATE
#48	0	NORMAL
#49, #50	2.8	P-MUTE OPERATE
#51, #52	0	NORMAL
#53	4.8	A-MUTE OPERATE
#54	0	—
#55	5.0	—
#56	0.3	—
#57	5.0	—
#58	0.3	—
#59	5.0	—
#60	0.3	—
#61, #62	5.0	—
#63	0	—
#64	0	—
IC1002		
#1~#6	0	—
#7, #8	5.0	—

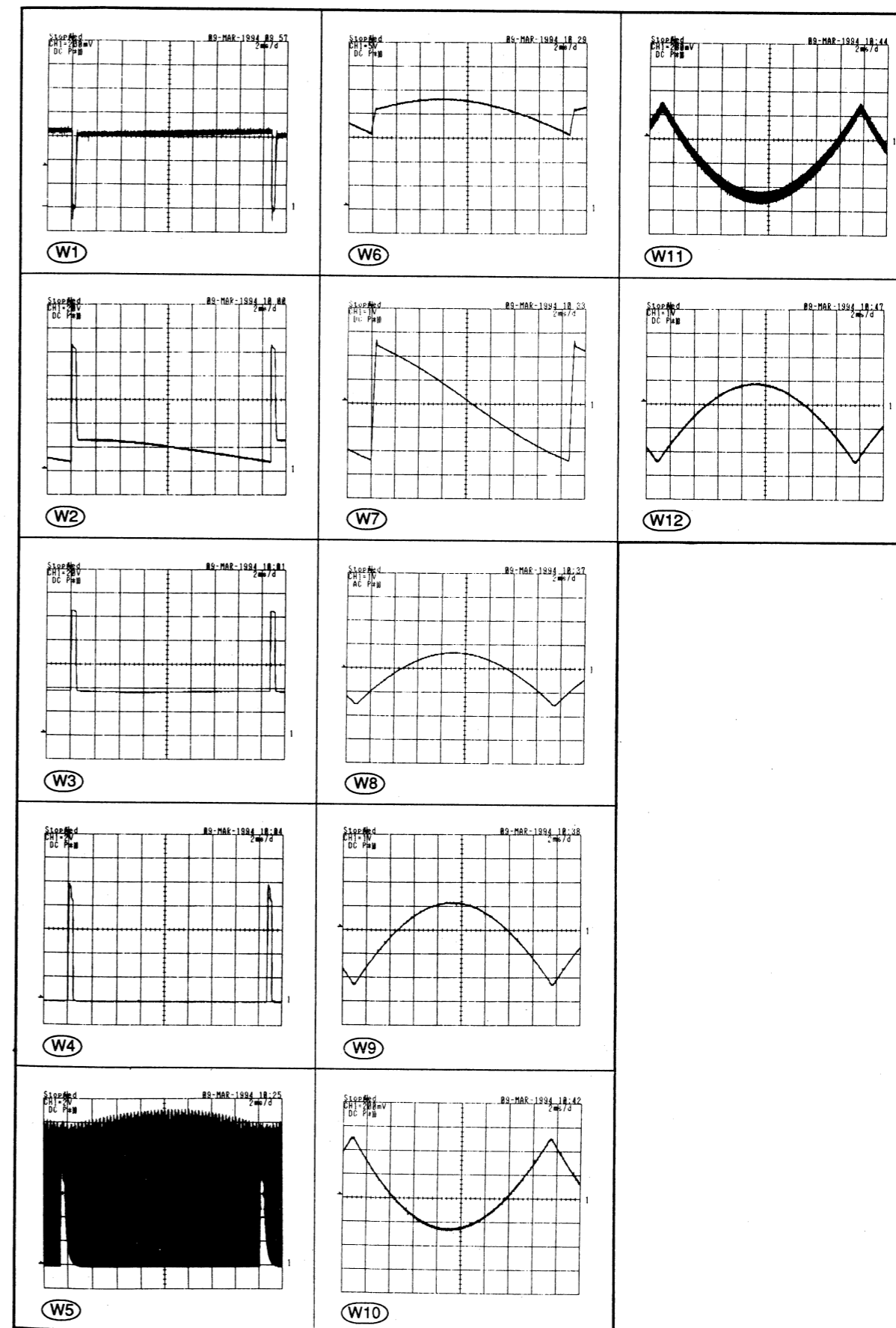
CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC1003		
#1	5.0	—
#2	0	—
#3	5.0	—
IC1004		
#1	5.0	—
#2	0	—
#3	5.0	—
TC1005		
#1	5.0	—
#2	0.1	—
#3	4.7	—
#4	0	—
#5	0.7	—
#6	0.8	—
#7	2.7	—
#8	0.7	—
#9	10.5	—
#10	0.3~10.6	VOLUME MIN-MAX
#11	0.7~10.4	SHARPNESS MIN-MAX
#12	1.1~10.5	TINT MIN-MAX
#13	0.4~10.5	COLOR MIN-MAX
#14	0.3~10.6	BRIGHT MIN-MAX
#15	0.2~10.5	CONTRAST MIN-MAX
#16	11.5	—
IC1006		
#1	0	—
#2, #15, #16	5.2	—
#3	0	—
#4	5.1	—
#5	0	VIDEO 1, 2, RGB 1 SELECTED
#6	6.0	RGB 2 SELECTED
#7	0	VIDEO 1, 2, RGB 2 SELECTED
#8	6.0	RGB 1 SELECTED
#9	0	VIDEO 1, RGB 1, 2 SELECTED
#10	11.8	VIDEO 2 SELECTED
#11	0	VIDEO 2, RGB 1, 2 SELECTED
#12	11.9	VIDEO 1 SELECTED
#13	0.1	RGB 2 SELECTED
#14	3.7	VIDEO 1, 2, RGB 2 SELECTED
#15	0.1	RGB 1 SELECTED
#16	3.7	VIDEO 1, 2, RGB 2 SELECTED
#17	0.1	VIDEO 2 SELECTED
#18	3.7	VIDEO 1, RGB 1, 2 SELECTED
#19	0.1	VIDEO 1 SELECTED
#20	3.7	VIDEO 2, RGB 1, 2 SELECTED
#21	0.1	VIDEO 1 SELECTED
#22	3.7	VIDEO 2, RGB 1, 2 SELECTED
#23	0.1	VIDEO 1 SELECTED
#24	3.7	VIDEO 2, RGB 1, 2 SELECTED
#25	0.1	VIDEO 1 SELECTED
#26	3.7	VIDEO 2, RGB 1, 2 SELECTED
#27	0.1	VIDEO 1 SELECTED
#28	3.7	VIDEO 2, RGB 1, 2 SELECTED
#29	0.1	VIDEO 1 SELECTED
#30	3.7	VIDEO 2, RGB 1, 2 SELECTED
#31	0.1	VIDEO 1 SELECTED
#32	3.7	VIDEO 2, RGB 1, 2 SELECTED
#33	0.1	VIDEO 1 SELECTED
#34	3.7	VIDEO 2, RGB 1, 2 SELECTED
#35	0.1	VIDEO 1 SELECTED
#36	3.7	VIDEO 2, RGB 1, 2 SELECTED
#37	0.1	VIDEO 1 SELECTED
#38	3.7	VIDEO 2, RGB 1, 2 SELECTED
#39	0.1	VIDEO 1 SELECTED
#40	3.7	VIDEO 2, RGB 1, 2 SELECTED
#41	0.1	VIDEO 1 SELECTED
#42	3.7	VIDEO 2, RGB 1, 2 SELECTED
#43	0.1	VIDEO 1 SELECTED
#44	3.7	VIDEO 2, RGB 1, 2 SELECTED
#45	0.1	VIDEO 1 SELECTED
#46	3.7	VIDEO 2, RGB 1, 2 SELECTED
#47	0.1	VIDEO 1 SELECTED
#48	3.7	VIDEO 2, RGB 1, 2 SELECTED
#49	0.1	VIDEO 1 SELECTED
#50	3.7	VIDEO 2, RGB 1, 2 SELECTED
#51	0.1	VIDEO 1 SELECTED
#52	3.7	VIDEO 2, RGB 1, 2 SELECTED
#53	0.1	VIDEO 1 SELECTED
#54	3.7	VIDEO 2, RGB 1, 2 SELECTED
#55	0.1	VIDEO 1 SELECTED
#56	3.7	VIDEO 2, RGB 1, 2 SELECTED
#57	0.1	VIDEO 1 SELECTED
#58	3.7	VIDEO 2, RGB 1, 2 SELECTED
#59	0.1	VIDEO 1 SELECTED
#60	3.7	VIDEO 2, RGB 1, 2 SELECTED
#61	0.1	VIDEO 1 SELECTED
#62	3.7	VIDEO 2, RGB 1, 2 SELECTED
#63	0.1	VIDEO 1 SELECTED
#64	3.7	VIDEO 2, RGB 1, 2 SELECTED
Q1001		
(E)	5.0	—
((C)	0	—
(B)	4.4	—
Q1002		
(E)	7.2~12.2	Full beam-Cut off
(C)	14.8	—
(B)	7.8~12.9	Full beam-Cut off
IQ1003		
(E)	0.8~6.4	CONTRAST MIN-MAX
(C)	0	—
(B)	0.2~5.8	CONTRAST MIN-MAX

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q1004		
(E)	0	—
(C)	5.0	NORMAL
(B)	0	DIP SW1 #7pin ON
	0	NORMAL
	2.8	DIP SW1 37pin ON
Q1005		
(E)	0	—
(C)	0	RGB 1, 2 SELECTED
(B)	7.8~12.9	VIDEO 1, 2, Full beam-Cut off
	0	VIDEO 1, 2 SELECTED
	5.1	RGB 1, 2 SELECTED
Q1006		
(E)	0	—
(C)	4.9	—
(B)	0	—
Q1007		
(E)	0	—
(C)	2.7	POWER ON
(B)	0	STAND BY
	0	POWER ON
	3.7	STAND BY
Q1008		
(E)	0	VIDEO 1, 2 SELECTED
(C)	5.1	RGB 1, 2 SELECTED
(B)	14.6	—
	0	VIDEO 1, 2 SELECTED
	5.7	RGB 1, 2 SELECTED
Q1009		
(E)	0	—
(C)	5.0	—
(B)	0	—
CONNECTOR "LE"		
#1	5.0	—
#2	3.1	RGB 2 SELECTED
#3	3.7	VIDEO 1, 2, RGB 1 SELECTED
#4	3.1	RGB 1 SELECTED
#5	3.7	VIDEO 1, 2, RGB 2 SELECTED
#6	3.1	VIDEO 2 SELECTED
#7	3.7	VIDEO 1, RGB 1, 2 SELECTED
#8	3.1	VIDEO 1 SELECTED
#9	3.7	VIDEO 2, RGB 1, 2 SELECTED
#10	0	—
#11	5.0	—
#12	7.0	—
#13	0	—
CONNECTOR "RF"		
#1	4.3	NORMAL
#2	0	POWER MANAGEMENT ON
#3	3.8	NORMAL
#4	0	POWER MODE 1 ON
#5	3.8	NORMAL
#6	0	POWER MODE 2 ON
#7	3.8	NORMAL
#8	0	POWER MODE 3 ON
#9	0	NORMAL
#10	12.1	EXT CTL ON

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "RF"		
#6	0	NORMAL, A-MUTE (EXT) ON
#7	12.1	EXT CTL ON (A-MUTE OFF)
CONNECTOR "VC"		
#1	14.7	—
#2	0.7~10.4	SHARPNESS MIN-MAX
#3	0.4~10.5	COLOR MIN-MAX
#4	1.1~10.5	TINT MIN-MAX
#5	0	—
CONNECTOR "EX"		
#1	4.0	NORMAL
#2	0	EXT CTL POWER ON
#3	4.0	NORMAL
#4	0	EXT CTL SEL 1 ON
#5	4.0	NORMAL
#6	0	EXT CTL SEL 2 ON
#7	4.0	NORMAL
#8	0	EXT CTL DEGAUSS ON
#9	4.0	NORMAL
#10	0	EXT CTL P-MUTE ON
#11	0	—
CONNECTOR "ED"		
#1	4.9	—
#2	0.1	—
#3	0	—
#4	0.1	—
#5	4.9	—
#6	0.2	—
#7	4.9	—
#8, #9	4.9	—
#10	0	—
#11	7.8~12.9	Full beam~Cut off
CONNECTOR "RK"		
#1~#6	0	—
CONNECTOR "DB"		
#1	22.4	—
#2	-11.7	—
#3	12.1	—
#4	5.9	—
#5	1.7	POWER ON
#6	0	STAND BY
#7	4.8	NORMAL
#8	0.7	DEGAUSS OPERATED
CONNECTOR "DC"		
#1, #5	12.1	—
#2	0	—
#3, #4	5.9	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "VA"		
#1	5.8	—
#2	7.0	—
#3	4.6	—
#4	0	VIDEO 2, RGB 1, 2 SELECTED
#5	11.9	VIDEO 1 SELECTED
#6	0	VIDEO 1, RGB 1, 2 SELECTED
#7	11.9	VIDEO 2 SELECTED
#8	0	NTSC, M-NTSC SELECTED
#9	4.6	PAL SELECTED
#10	0	NORMAL, EXT A-MUTE ON
#11	12.1	EXT CTL ON (EXT A-MUTE OFF)
#12	0	—
IC301		
#1, #5	2.1	—
#2, #4	2.2	—
#3, #10	0	—
#6	7.5	—
#7	11.1	—
#8, #11	2.2	—
C301		
#9	22.2	—
#12	10.7	—
IC302		
#1	11.1	—
#2, #8	0.2~6.3	VOLUME MIN-MAX
#3	2.8	—
#4	2.9	—
#5	0	—
#6, #7	2.9	—
#9	6.3	—
IC201		
#1	22.3	—
#2	0	—
#3	15.0	—
Q301		
(E)	0	—
(C)	0.2~6.3	VOLUME MIN-MAX
(B)	0	A-MUTE ON
(A)	0	NORMAL
(D)	0.7	A-MUTE ON
Q303		
(E)	0	NORMAL
(C)	12.1	EXT CTL ON
(B)	0	NORMAL
(A)	12.1	A-MUTE (EXT CTL) OPERATE
(D)	0	NORMAL
(E)	12.1	EXT CTL ON A-MUTE (EXT CTL) OFF
(C)	11.5	EXT CTL ON A-MUTE (EXT CTL) ON
CONNECTOR "AU"		
#1, #3	4.1	—
#2, #5, #7	0	—
#4, #6	0	—
CONNECTOR "FA, FB, FC"		
#1	13.1	—
#2	1.3	—
#3	1.1	—

μCOM/V PWB WAVEFORM



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• μ COM/V PWB (COMPONENT SIDE)

A

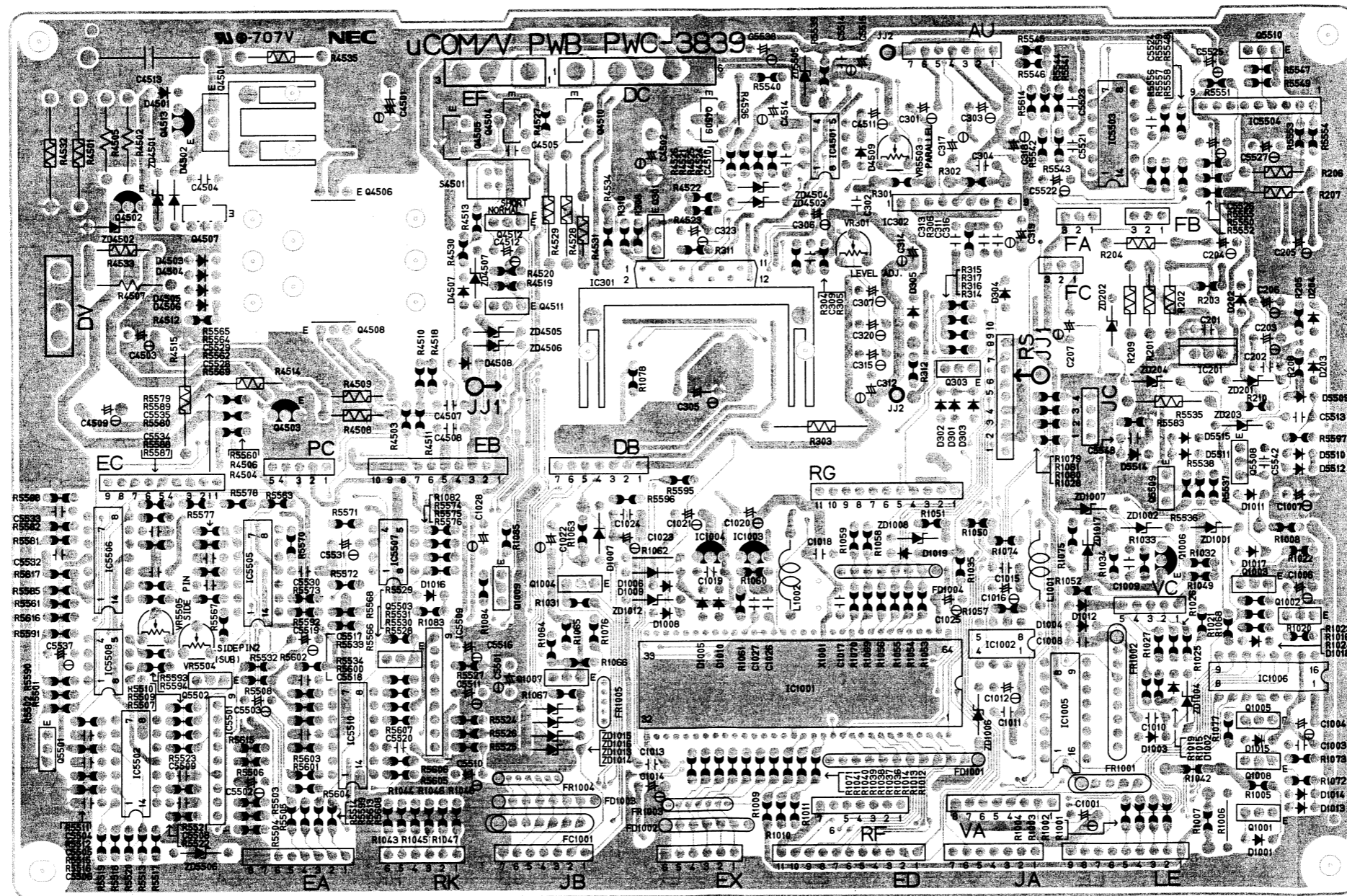
B

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• μ COM/V PWB (SOLDER SIDE)

A

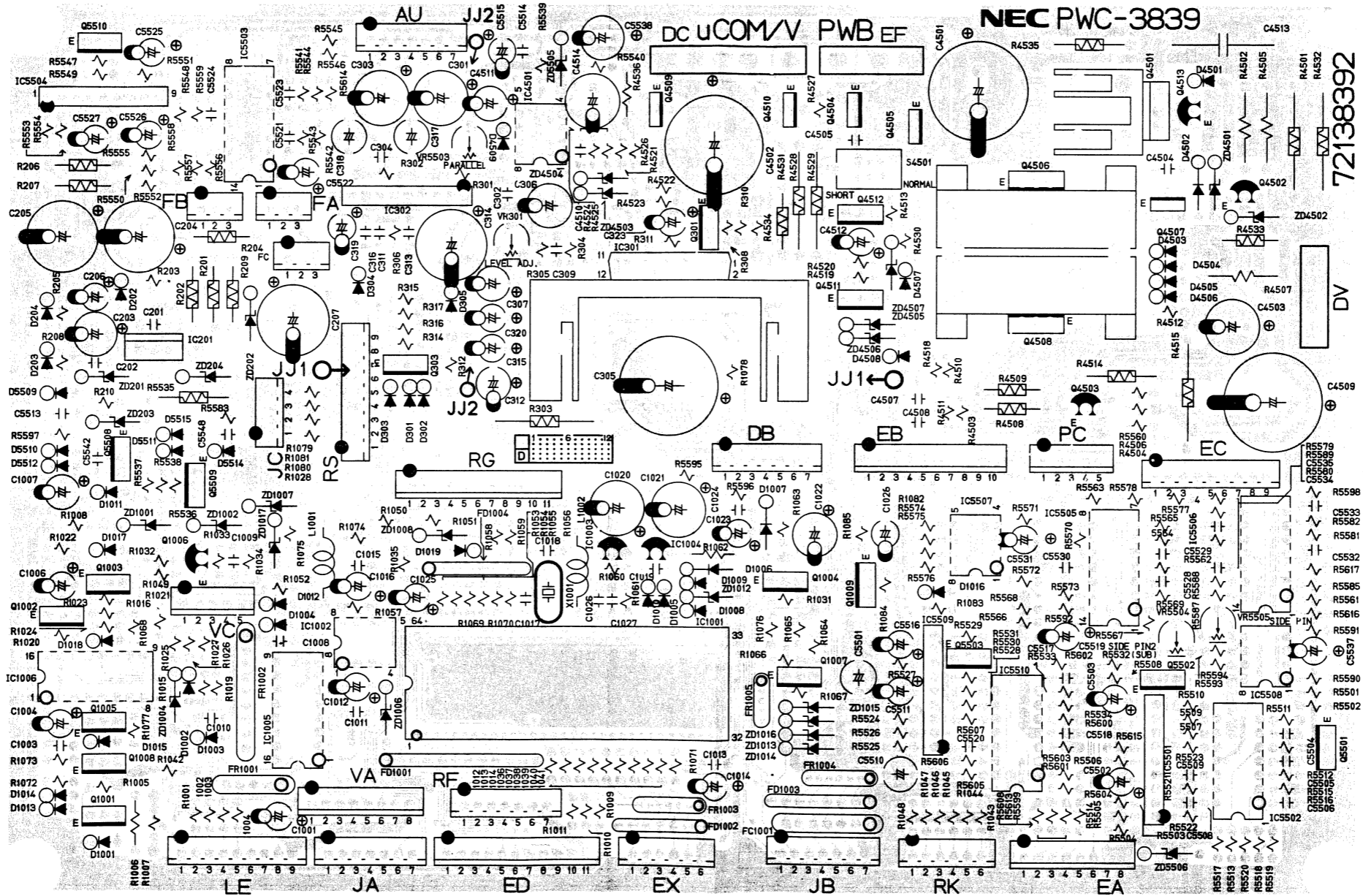
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1 2 3 4 5 6 7 8

A

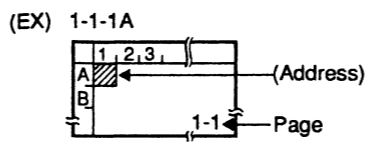
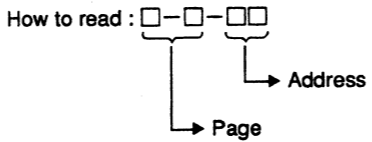
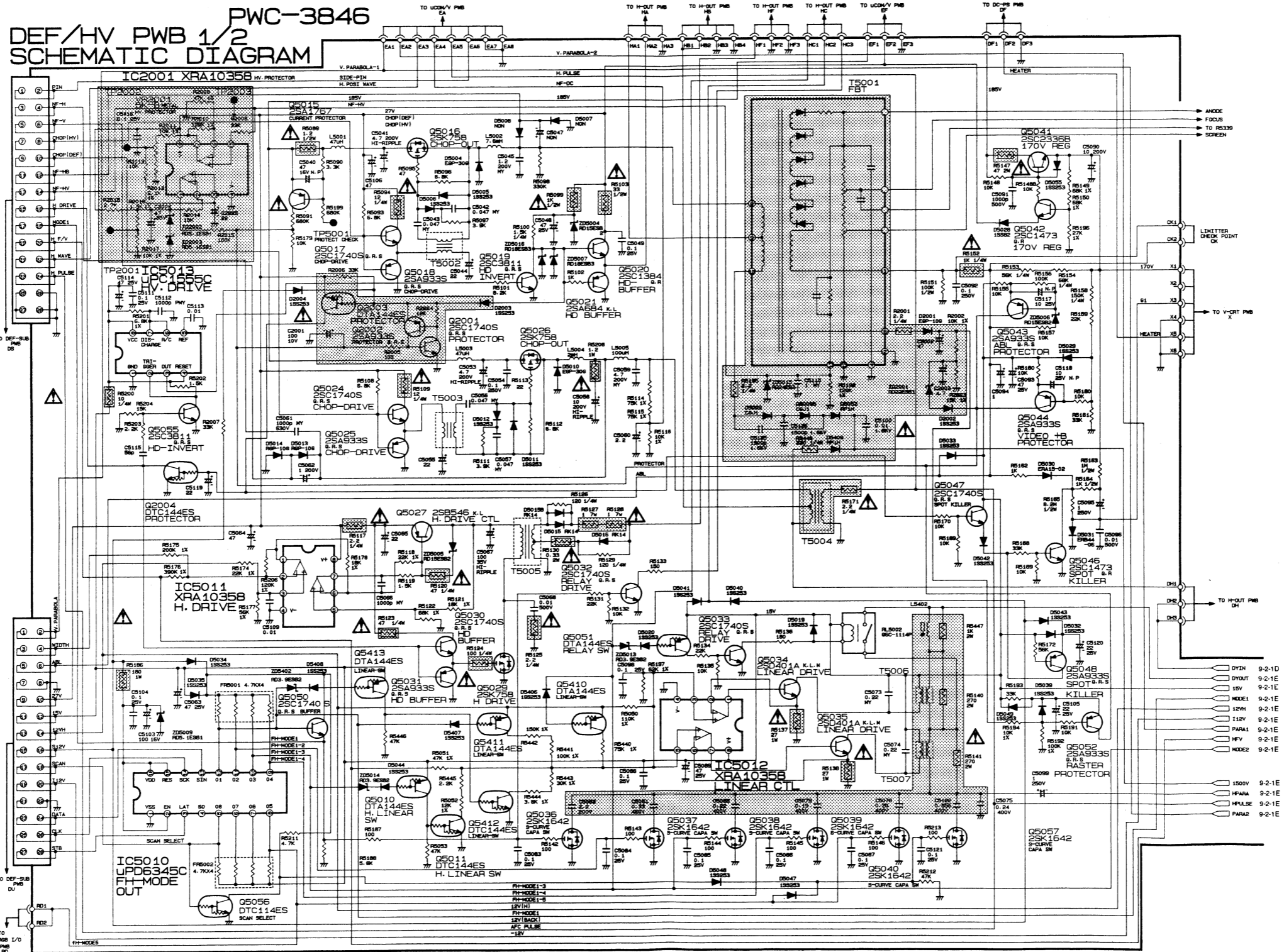
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1 2 3 4 5 6 7 8

DEF/HV PWB PWC-3846
SCHEMATIC DIAGRAM 2/2

A

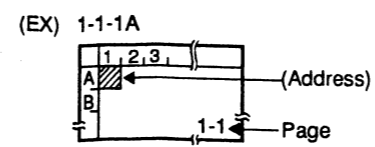
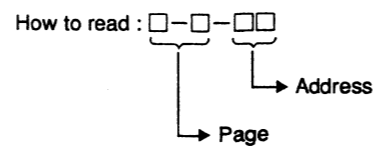
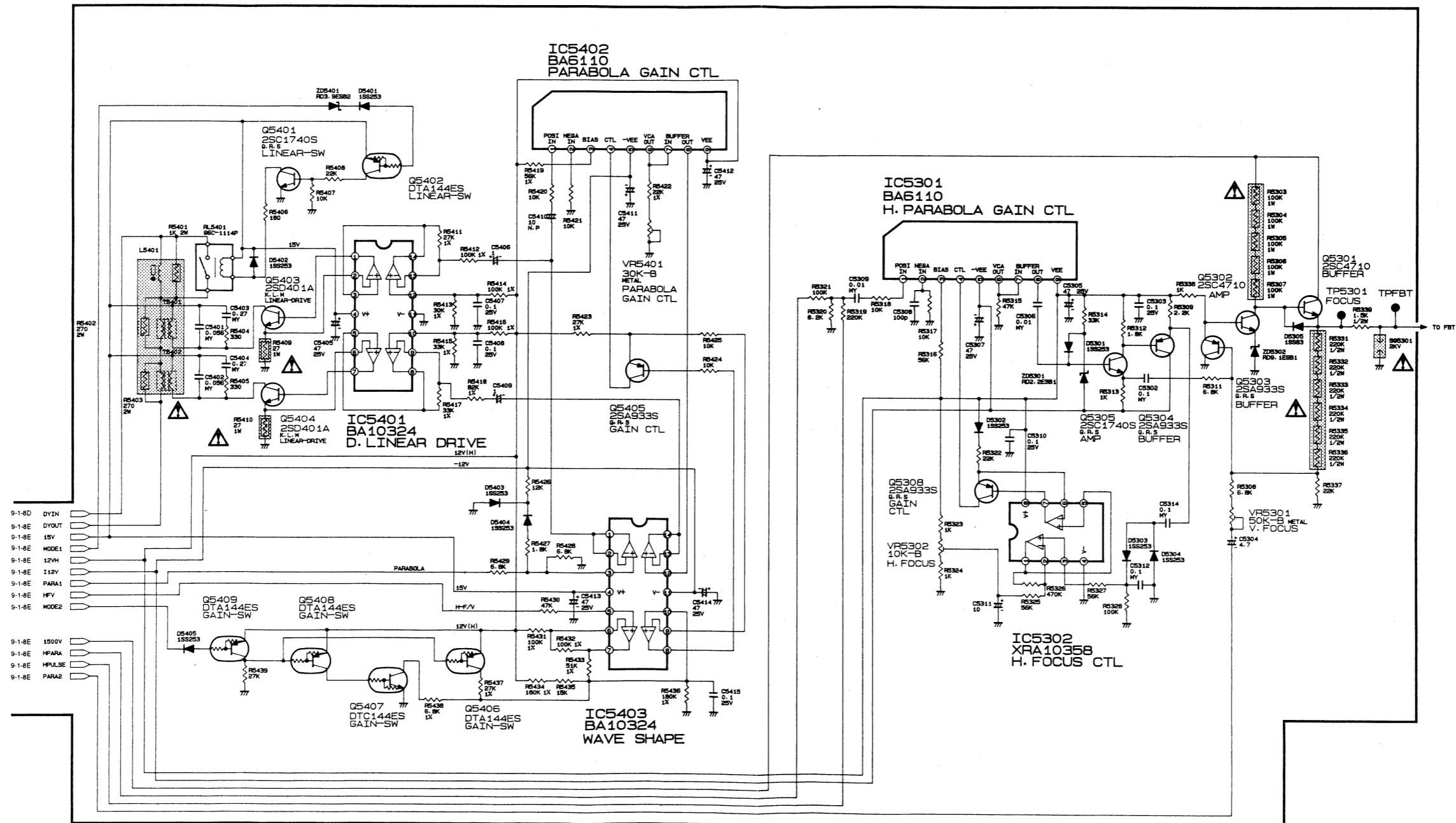
B

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F



DEF/HV PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC2001		
#1	0 25	Protector OFF Protector ON (HV PROTECTOR OPERATE)
#2	10	—
#3	8.6	Protector OFF
#4	0	—
#5	6.1	—
#6	6.1	—
#7	19.1	—
#8	28.1	—
IC5010		
#1	0	—
#2, #15, #16	5.2	—
#3	0	(STB)
#4	5.2	—
#5	7.7	OVER SCAN Mode UNDER SCAN Mode
#6	0	—
#7	14.8	—
#8	0	Over 42kHz (H)
	13.3	15.5~42kHz (H)
#9	0	Over 36.5kHz (H)
	14.1	15.5~36.5kHz (H)
#10	0	Over 34kHz (H)
	14.0	15.5~34kHz (H)
#11	0	Over 28kHz
	13.9	15.5kHz~21kHz (H)
#12	0	Over 21kHz
	13.9	15.5~21kHz (H)
#13	0.1	(DATA)
#14	4.9	(CLK)
IC5011		
#1	6.5~15.6	50kHz (WIDTH Min)~ 15.75kHz (WIDTH Max)
#2	8.7	—
#3	8.7	—
#4	0	—
#5, #6	15.5~20.5	50kHz (WIDTH Min)~ 15.75kHz (WIDTH Max)
#7	16.8~20.3	15.75kHz (WIDTH Max)~ 50kHz (WIDTH Min)
#8	28.2	—
IC5012		
#1	3.4~4.0	15.75~50kHz (H)
#2, #3	2.8~3.4	ditto
#4	0	—
#5, #6	2.8~3.4	15.75~50kHz (H)
#7	3.4~4.0	ditto
#8	14.8	—
IC5013		
#1	0	—
#2	13.7~14.4	50~15.75kHz (H)
#3	1.9~6.5	15.75~50kHz (H)
#4, #8	14.6	—
#5	9.7	—
#6, #7	0.8~2.5	15.75~50kHz (H)
IC5301		
#1	-1.0	—
#2	-1.0	—
#3	-10.6	—
#4	-10.7	—
#5	-11.8	—
#6, #7	-2.5~-0.8	15.75KHZ (WIDTH MIN)~ 50KHZ (WIDTH MAX)
#8	-2.5~-0.6	15.75KHZ (WIDTH Min)~ 50KHZ (WIDTH Max)
#9	12.1	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC5302		
#1, #5	2.4~9.5	15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max)
#2, #3	5.6~6.4	ditto
#4	0	—
#6	2.3~9.6	15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max)
#7	1.8~9.0	ditto
#8	12.1	—
IC5401		
#1	3.4	—
#2	2.8	—
#3, #14	2.8	—
#4	14.8	—
#5, #8	3.0	—
#6	3.0	—
#7	3.6	—
#9	3.0	—
#10	3.0	—
#11	0	—
#12	2.8	—
#13	2.8	—
IC5402		
#1	-1.1	—
#2	-1.1	—
#3	-10.7	—
#4	-10.7	—
#5	-11.8	—
#6, #7	-2.9~-0.8	15.75~50kHz (H)
#8	-2.8~-0.7	ditto
#9	12.1	—
IC5403		
#1, #2	-0.2	—
#3	-0.2	—
#4	14.7	—
#5	1.1~11.0	15.75~50kHz (H)
#6	1.1~11.1	ditto
#7	-9.9~10.1	ditto
#8	2.1~8.0	ditto
#9, #10	1.5~8.6	ditto
#11	-11.8	—
#12	-2.8~-0.7	15.75~50kHz (H)
#13, #14	-2.9~-0.8	ditto
IQ2001		
(E)	0	—
(C)	28.0	Protector OFF
(B)	0	ditto
Q2002		
(E)	28.0	Protector OFF
(C)	0	ditto
(B)	28.0	ditto
Q2003		
(E)	28.0	—
(C)	0	Protector OFF
(B)	28.0	ditto
Q2004		
(E)	0	—
(C)	6.4	Protector OFF
(B)	0	ditto
Q5015		
(E)	186	—
(C)	0	Protector OFF
(B)	0	ditto

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5016		
(D)	186	—
(G)	44~174	15.75~50kHz (H)
(S)	41~167	ditto
Q5017		
(E)	2.6~21.5	50~15.75kHz (H)
(C)	28.1	—
(B)	1.9~21.3	50~15.75kHz (H)
Q5018		
(E)	2.6~21.5	50~15.75kHz (H)
(C)	0	—
(B)	1.9~21.3	50~15.75kHz (H)
Q5019		
(E)	0	—
(C)	12.5~7.4	15.75~50kHz (H)
(B)	0.1~0.4	ditto
Q5020		
(E)	12.1~7.4	15.75~50kHz (H)
(C)	27.5	—
(B)	12.5~7.4	15.75~50kHz (H)
Q5021		
(E)	12.1~7.4	15.75~50kHz (H)
(C)	0	—
(B)	12.6~7.6	15.75~50kHz (H)
Q5024		
(E)	21.9~8.0	15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max)
(C)	0	—
(B)	21.8~7.7	15.75KHZ (WIDTH Min)~ 50KHZ (WIDTH MAX)
Q5025		
(E)	21.9~8.0	15.75KHZ (WIDTH Min)~ 50KHZ (WIDTH Max)
(C)	0	—
(B)	21.8~7.7	15.75KHZ (WIDTH Min)~ 50KHZ (WIDTH Max)
Q5026		
(D)	186	—
(G)	0.1~147	15.75KHZ (WIDTH Min)~ 50KHZ (WIDTH Max)
(S)	0~137	ditto
Q5027		
(E)	27.0	—
(C)	19.7~25.9	50kHz (WIDTH Min)~ 15.75kHz (WIDTH Max)
(B)	26.5	—
Q5029		
(D)	—	—
(G)	6.1	—
(S)	0	—
Q5030		
(E)	6.1	—
(C)	26.9	—
(B)	6.3	—
Q5031		
(E)	6.1	—
(C)	0	—
(B)	6.3	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5032		
(E)	0	—
(C)	0	15.5~21kHz (H)
	18.9	Over 21kHz (H)
(B)	0.7	15.7~21kHz (H)
	0	Over 21kHz (H)
Q5010		
(E)	14.7	—
(C)	0	15.5~34kHz (H)
	14.6	Over 34kHz (H)
(B)	14.4	15.5~34kHz (H)
	3.3	Over 34kHz (H)
Q5011		
(E)	0	—
(C)	2.8	15.75kHz (H. F/V)
	0	Over 34kHz (H)
(B)	0	15.5~34kHz (H)
	14.6	Over 34kHz (H)
Q5033		
(E)	0	—
(C)	14.7	15.5~34kHz (H)
	0	Over 34kHz (H)
(B)	0	15.5~34kHz (H)
	0.7	Over 34kHz (H)
Q5034		
(E)	2.8~3.4	15.75~50kHz (H)
(C)	9.0~8.0	ditto
(B)	3.4~4.0	ditto
Q5035		
(E)	2.8~3.4	15.75~50kHz (H)
(C)	9.0~7.9	ditto
(B)	3.4~4.0	ditto
Q5036		
(D)	0.3	15.5~21kHz (H)
	108	Over 21kHz (H)
(G)	13.2	15.5~21kHz (H)
	0	Over 21kHz (H)
(S)	0	—
Q5037		
(D)	0	15.5~28kHz (H)
	108	Over 28kHz (H)
(G)	14.0	15.5~28kHz (H)
	0	Over 28kHz (H)
(S)	0	—
Q5038		
(D)	0	15.5~34kHz (H)
	108	Over 34kHz (H)
(G)	14.0	15.5~34kHz (H)
	0	Over 34kHz (H)
(S)	0	—
Q5039		
(D)	0	15.5~36.5kHz (H)
	108	Over 36.5kHz (H)
(G)	14.0	15.5~34kHz (H)
	0	Over 36.5kHz (H)
(S)	0	—
Q5040		
(D)	0	15.5~42kHz (H)
	108	Over 42kHz (H)
(G)	13.4	15.5~42kHz (H)
	0	Over 42kHz (H)
(S)	0	—

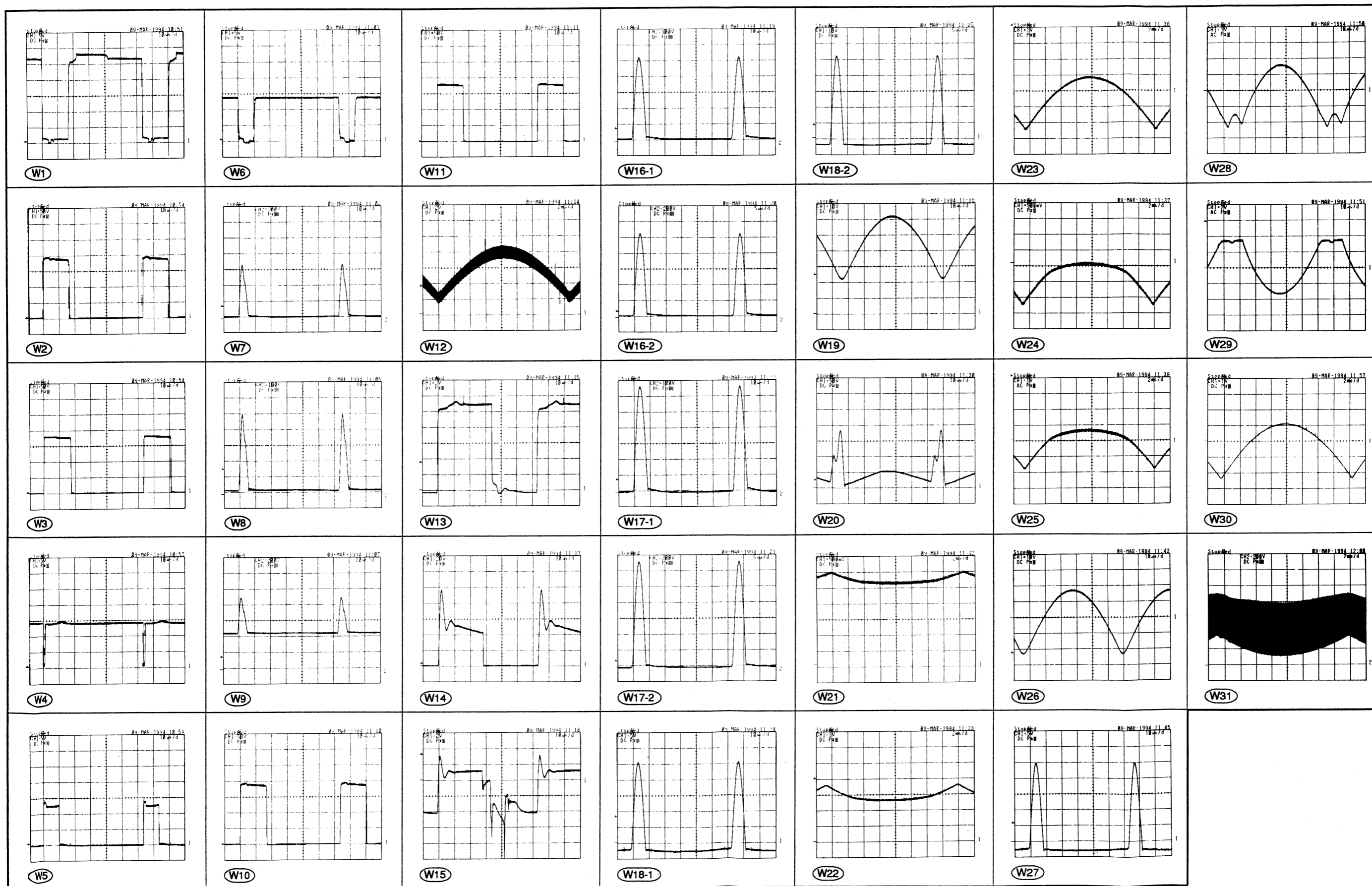
CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5041 (E) (C) (B)	176 187 175	— — —
Q5042 (E) (C) (B)	28.3 175 28.8	— — —
Q5043 (E) (C) (B)	14.7 0 14.6	— Protector OFF ditto
Q5044 (E) (C) (B)	14.7 0 15.3	— Protector OFF ditto
Q5046 (E) (C) (B)	0 144 0	— — —
Q5047 (E) (C) (B)	0 14.7 0	— — —
Q5048 (E) (C) (B)	14.7 0 14.6	— — —
Q5050 (E) (C) (B)	13.3 0 14.0 13.9 0	15.5~21kHz (H) Over 21kHz (H) — 15.5~21kHz (H) Over 21kHz (H)
Q5051 (E) (C) (B)	14.7 0 14.7 14.6 3.3	— 15.5~34kHz (H) Over 34kHz (H) 15.5~34kHz (H) Over 34kHz (H)
Q5052 (E) (C) (B)	15.1 0 15.7	— Protector OFF ditto
Q5055 (E) (C) (B)	0 13.7~14.4 -0.3~-0.1	— 50~15.75kHz (H) ditto
Q5056 (E) (C) (B)	0 0 13.7 7.8 0	— OVER SCAN Mode UNDER SCAN Mode OVER SCAN Mode UNDER SCAN Mode
Q5057 (D) (G) (S)	0 107 13.0 0 0	15.5~42kHz or UNDER SCAN Mode Over 42kHz and OVER SCAN Mode 15.5~42kHz or UNDER SCAN Mode Over 42kHz and OVER SCAN Mode —

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5301 (E) (C) (B)	— — 487	— — —
Q5302 (E) (C) (B)	8.5 487 9.1	— — —
Q5303 (E) (C) (B)	9.1 0 8.5	— — —
Q5304 (E) (C) (B)	7.9 -11.8 7.3	— — —
Q5305 (E) (C) (B)	-9.2 7.3 -8.6	— — —
Q5308 (E) (C) (B)	2.3~9.6 -10.7 1.8~9.0	15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max) — 15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max)
Q5401 (E) (C) (B)	0 14.3 0 0.7	— 15.5~21kHz (H) Over 21kHz (H) 15.5~21kHz (H) Over 21kHz (H)
Q5402 (E) (C) (B)	14.7 0 14.7 0 3.3	— 15.5~21kHz (H) Over 21kHz (H) 15.5~21kHz (H) Over 21kHz (H)
Q5403 (E) (C) (B)	2.8 8.7 3.4	— — —
Q5404 (E) (C) (B)	3.0 8.1 3.6	— — —
Q5405 (E) (C) (B)	1.5~8.6 -10.7 0.9~8.0	15.75~50kHz (H) — 15.75~50kHz (H)
Q5406 (E) (C) (B)	12.0 12.0 8.5 6.0 12.0	— 15.5~34kHz (H) Over 34kHz (H) 15.5~34kHz (H) Over 34kHz (H)
Q5407 (E) (C) (B)	0 0 8.5 12.0 0	— 15.5~34kHz (H) Over 34kHz (H) 15.5~34kHz (H) —

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5408 (E) (C) (B)	12.0 12.0 0 6.0 12.0	— 15.5~34kHz (H) Over 34kHz (H) 15.5~34kHz (H) Over 34kHz (H)
Q5409 (E) (C) (B)	12.0 6.0 12.0 11.9 0.5	— 15.5~34kHz (H) Over 34kHz (H) 15.5~34kHz (H) Over 34kHz (H)
Q5410 (E) (C) (B)	12.0 2.8 12.0 11.9 0.5	— 15.75kHz (H. F/V) Over 34kHz (H) 15.5~34kHz (H) Over 34kHz (H)
Q5411 (E) (C) (B)	12.0 2.8 12.0 11.9 0.6	— 15.75kHz (H. F/V) Over 21kHz (H) 15.75~21kHz (H) Over 21Hz (H)
Q5412 (E) (C) (B)	0 2.8 0 0 14.7	— 15.75kHz (H. F/V) Over 21kHz (H) 15.75~21kHz (H) Over 21kHz (H)
Q5413 (E) (C) (B)	14.7 0 14.7 14.6 3.2	— 15.75~21kHz (H) Over 21kHz (H) 15.75~21kHz (H) Over 21kHz (H)
CONNECTOR "DS" #1, #2 #3, #4 #5, #6 #7, #8 #9, #10 #11, #12 #13, #14 #15, #16 #17, #18 #19, #20 #21, #22 #23, #24 #25, #26 #27, #28	0 6.2 6.1~13.8 1.9~21.3 21.8~7.7 5.8~7.1 6.2 6.3 13.3 0 1.1~11.0 0 — 0 8.5 0 0	— — 15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max) 50~15.75kHz (H) 15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max) 50~15.75kHz (H) — — 15.5~21kHz (H) Over 21kHz (H) 15.75~50kHz (H. F/V) — — — — —

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "DU" #1, #2 #3, #4 #5, #6 #7, #8 #9, #10 #11, #12 #13, #14 #15, #16 #17, #18 #19, #20 #21, #22 #23, #24 #25, #26 #27, #28	0 1.1~6.7 12.9 0 27.7 14.7 12.0 12.0 7.7 0 -11.8 0 0.1 5.0 0	— — WIDTH D/A Control ABL OFF — — — — OVER SCAN Mode UNDER SCAN Mode — — (DATA) (CLK) (STB)
CONNECTOR "EA" #1 #2 #3 #4 #5 #6 #7, #8	0 -0.3 0 2.6~8.5 — 0 0	— — — 15.75kHz (WIDTH Min)~ 50kHz (WIDTH Max) — — —
CONNECTOR "X" #1 #3 #5 #4, #6	177 0.3 6.2 0	— — — —
CONNECTOR "DF" #1 #2 #3	188 6.2 0	— — —
CONNECTOR "EF" #1 #2 #3	187 27.7 0	— — —
CONNECTOR "HC" #1 #2 #3	14.0 0 14.0 18.7 2.3 20.5	15.5~34kHz (H) Over 34kHz (H) 15.5~21kHz (H) Over 21kHz 15.5~21kHz (H) Over 21kHz (H)

DEF/HV PWB WAVEFORM



1 2 3 4 5 6 7 8

• DEF HV PWB (SOLDER SIDE)

A

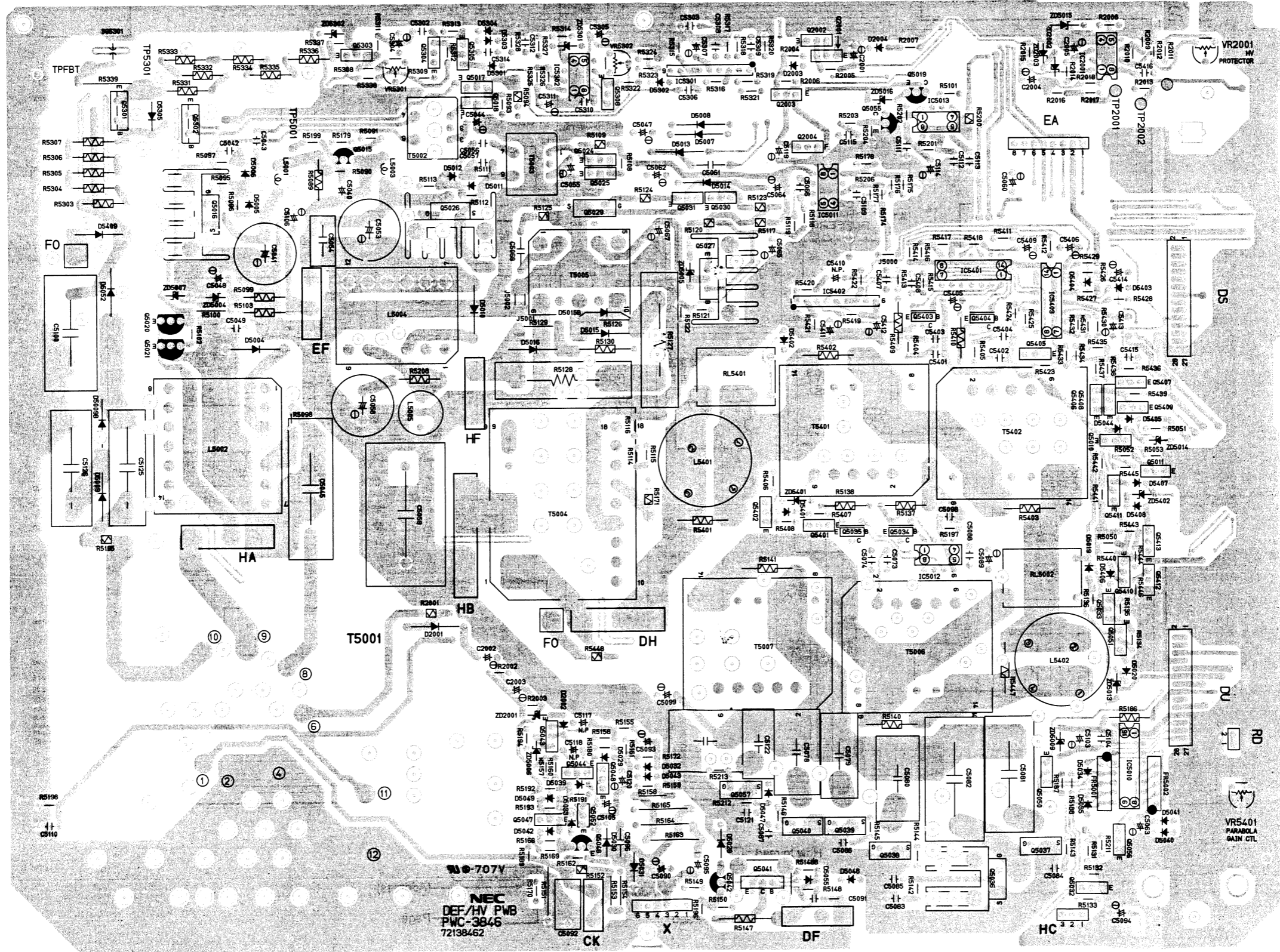
B

C

D

E

F



1 2 3 4 5 6 7 8

A

B

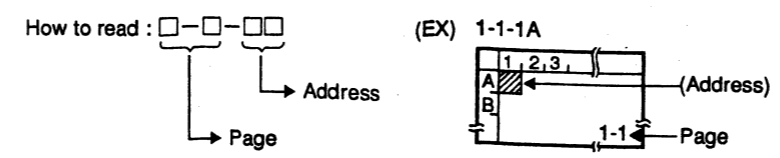
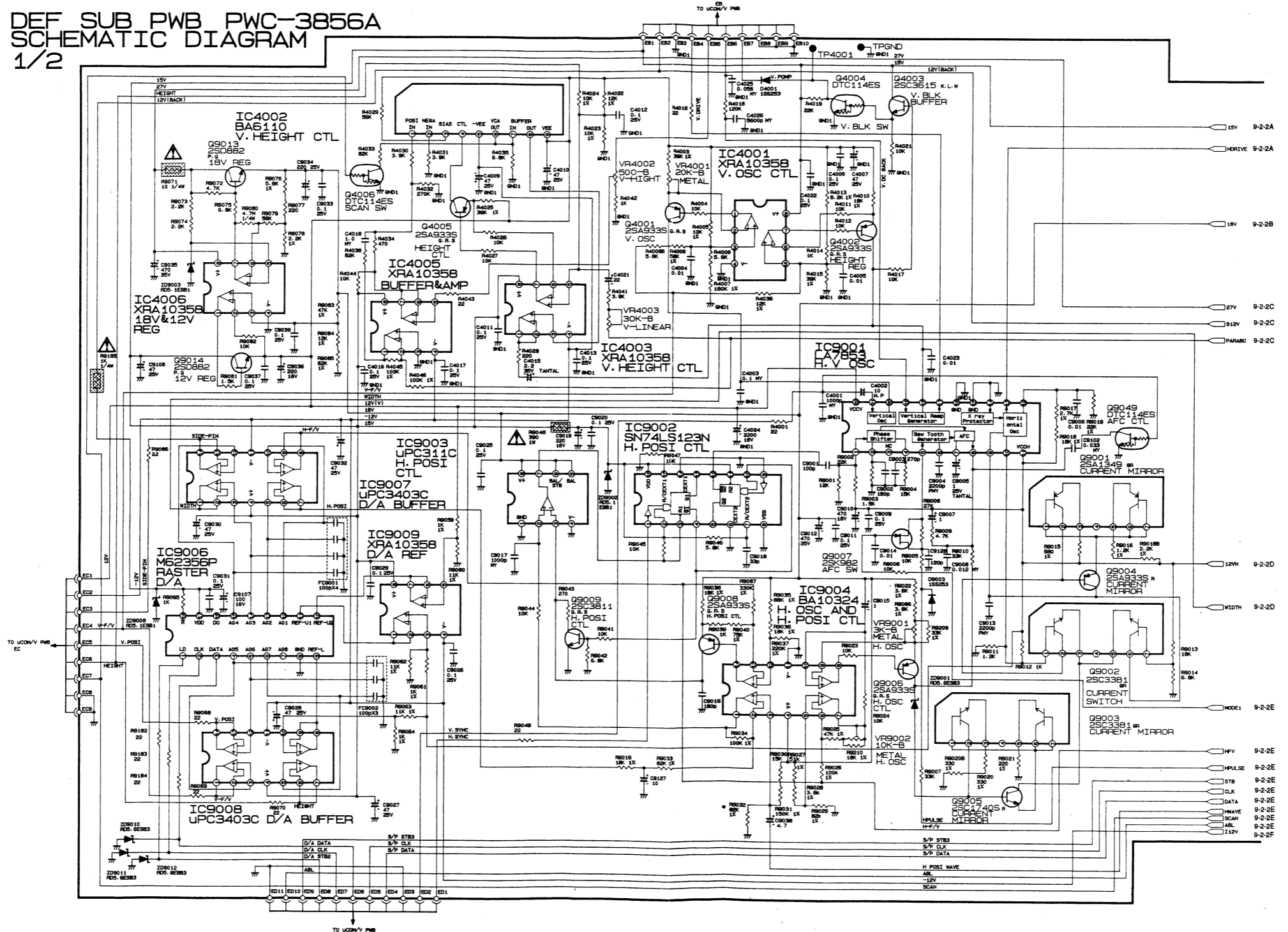
C

D

E

F

DEF SUB PWB PWC-3856A
SCHEMATIC DIAGRAM
1/2



DEF SUB PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC9001		
#1	4.3	—
#2	7.6	—
#3	0	—
#4	8.8	—
#5	0.1	—
#6	5.3~3.7	fh: 15.5k~50.0kHz
#7	4.7~3.1	fh: 15.5k~50.0kHz
#8	7.0	—
#9	6.0	—
#10	5.5	—
#11	12.1	—
#12	6.2	—
#13	6.3	—
#14, #15, #16	0	—
#17	0.8	—
#18	3.6	—
#19	0.2	—
#20	5.7	—
#21	5.9	—
#22	12.1	—
IC9002		
#1	4.8	—
#2, #11, #16	5.1	—
#3	4.9	—
#4	2.4~3.6	H POSITION LEFT~RIGHT
#5	0.1	—
#6, #8, #9, #14	0	—
#7	1.9	—
#10	2.4~3.6	H POSITION LEFT~RIGHT
#12	4.5	—
#13	1.6~0.2	H POSITION LEFT~RIGHT
#15	0.2	—
IC9003		
#1, #4	0	—
#2	10.9~0.9	H POSITION LEFT~RIGHT
#5, #6, #8	18.1	—
#7	4.9	—
IC9004		
#1	10.9~0.9	H POSITION LEFT~RIGHT
#2, #3	6.0	—
#4	18.1	—
#5, #6	10.8	—
#7, #9, #10	15.7~10.8	fh: 15.5k~50.0kHz
#8	15.1~10.1	fh: 15.5k~50.0kHz
#11	0	—
#12, #13, #14	15.2~12.9	fh: 15.5k~50.0kHz
IC9005		
#1, #2, #3	6.3~7.1	fh: 15.5k~21kHz, Width MIN~MAX
	11.3~13.1	fh: 21k~50kHz, Width MIN~MAX
#4	0	—
#5, #6	12.0	—
#7	13.2	—
#8	18.1	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC9006		
#1	0	—
#2	4.7	—
#3	0.2	—
#4	11.0~1.0	fv: 40~120Hz
#5	11.0~1.0	V POSITION DOWN~VP
#6	1.0~11.0	V HEIGHT MIN~MAX
#7	11.0	—
#8	0	—
#9	1.0	—
#10, #11	11.0	—
#12	1.0~11.0	fh: 15.5k~50.0kHz
#13	1.0~11.0	H POSITION LEFT~RIGHT
#14	11.0~1.0	H WIDTH MIN~MAX
#15	11.0~1.0	SIDE PIN MIN~MAX
#16	0.2	—
#17, #18	5.0	—
IC9007		
#1, #2, #3	11.0~1.0	H WIDTH MIN~MAX
#4	14.8	—
#5, #6, #7	1.0~11.0	H POSITION LEFT~RIGHT
#8, #9, #10	1.0~11.0	fh: 15.5~50.0kHz
#12, #13, #14	11.0~1.0	SIDE PIN MIN~MAX
IC9008		
#1, #2, #3	11.0~1.0	fv: 40~120Hz
#4	14.8	—
#5, #6, #7	1.0~11.0	V HEIGHT MIN MAX
#8, #9, #10	1.0	—
#11	-11.7	—
#12, #13, #14	11.0~1.0	V POSITION MIN MAX
IC9009		
#1, #2, #3	11.0	—
#4	-11.7	—
#5, #6, #7	11.0	—
#8	14.8	—
IC9014		
#1	4.9~5.7	fh: 15.5k~21kHz, Width MIN~MAX
#2, #3	3.0~4.8	fh: 21k~50kHz, Width MIN~MAX
#4	6.2	—
#5, #6, #7	28.0	—
	6.3~7.1	fh: 15.5k~21kHz, Width MIN~MAX
	5.3~6.1	fh: 21k~50kHz, Width MIN~MAX
#8, #9, #10	6.3	—
#11	0	—
#12, #13	6.2	—
#14	2.3~6.1	fh: 15.5kHz Cut off~ fh: 50kHz Full beam
IC9015		
#1	21.5~6.7	fh: 15.5kHz Width MIN~ fh: 50kHz Width MAX
#2	4.9~5.7	fh: 15.5k~21kHz, Width MIN~MAX
	3.8~4.9	fh: 21k~50kHz, Width MIN~MAX
#3, #5	6.6~2.8	fh: 15.5k~50.0kHz
#4	0	—
#6	2.5~5.0	fh: 15.5kHz Cut off~ fh: 50kHz Full beam
#7	21.9~7.6	fh: 15.5kHz Cut off~ fh: 50kHz Full beam
#8	28.1	—

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC4001		
#1	10.9~9.5	fv: 40~120Hz
#2, #3	11.4~10.1	fv: 40~120Hz
#4	0	—
#5, #6	10.3~6.4	fv: 40~120Hz
#7	9.7~5.8	fv: 40~120Hz
#8	14.6	—
IC4002		
#1, #2	-0.2	—
#3	-10.5	—
#4	-10.6	—
#5	-11.7	—
#6, #7, #8	0	—
#9	12.1	—
IC4003		
#1, #2, #3	0	—
#4	-11.7	—
#5, #6	3.9~7.5	V HEIGHT MIN~MAX
#7	3.3~6.9	V HEIGHT MIN~MAX
#8	14.8	—
IC4005		
#1, #2, #3	0	—
#4	-11.7	—
#5, #6, #7	0	—
#8	14.8	—
IC4006		
#1	13.1	—
#2, #3	12.0	—
#4	0	—
#5, #6	5.0	—
#7	5.5	—
#8	28.1	—
Q9001		
#1, #6, #7	11.1~10.0	fh: 15.5k~50.0kHz
#2	10.5~9.4	fh: 15.5k~50.0kHz
#3, #5	11.6~10.6	fh: 15.5k~50.0kHz
#4	—	—
Q9002		
#1	5.5	—
#2	10.5~9.4	fh: 15.5k~50.0kHz
#3, #5	5.4	—
#4	—	—
#6	6.0	—
#7	3.3	—
Q9003		
#1, #6, #7	0.8~1.2	fh: 15.5k~50kHz
#2	1.4~1.9	fh: 15.5k~50kHz
#3, #5	0.2~0.6	—
#4	—	—
Q9004		
(E)	11.1~10.0	fh: 15.5k~50kHz
(C)	6.0	—
(B)	10.5~9.4	fh: 15.5k~50kHz

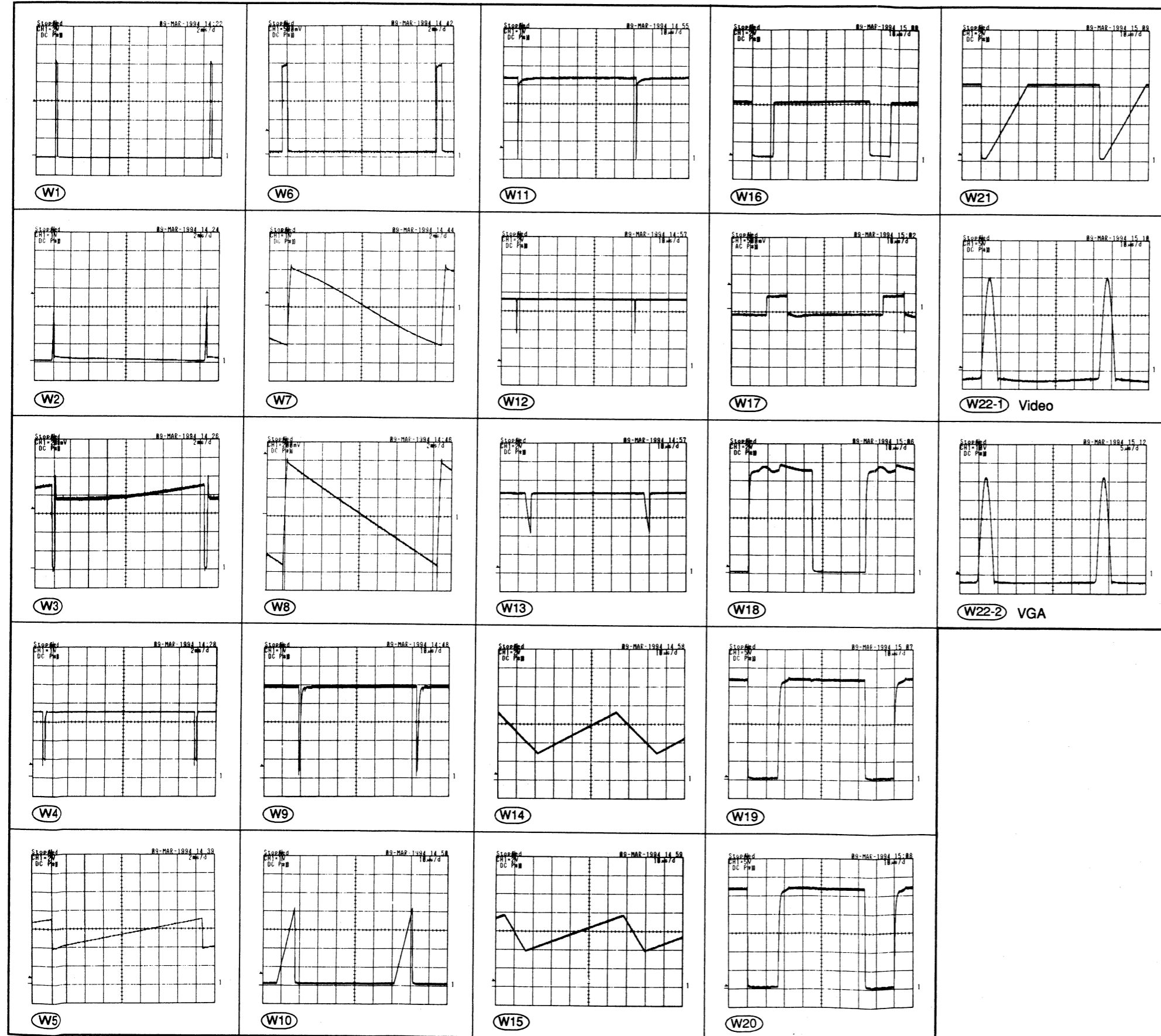
CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q9005		
(E)	0.8~1.2	fh: 15.5k~50kHz
(C)	5.4	—
(B)	1.4~1.9	fh: 15.5k~50kHz
Q9006		
(E)	15.7~10.8	fh: 15.5k~50kHz
(C)	7.1~7.6	fh: 15.5k~50kHz
(B)	15.2~10.1	fh: 15.5k~50kHz
Q9007		
(S)	0.2	—
(D)	0.1	fh: 15.5k~21kHz
	1.3	fh: 21k~50kHz
(G)	13.3	fh: 15.5k~21kHz
	0	fh: 21k~50kHz
Q9008		
(E)	15.8~13.5	fh: 15.5k~50kHz
(C)	0.1~3.2	fh: 15.5kHz RIGHT~ fh: 50.0kHz LEFT
(B)	15.2~12.9	fh: 15.5k~50kHz
Q9009		
(E)	0	—
(C)	3.1~0.1	H POSITION LEFT~RIGHT
(B)	0.4~0.6	H POSITION LEFT~RIGHT
Q9012		
(E)	12.1	—
(C)	14.8	—
(B)	12.7	—
Q9013		
(E)	18.1	—
(C)	27.9	—
(B)	18.7	—
Q9014		
(E)	12.1	—
(C)	14.8	—
(B)	12.7	—
Q9049		
(E)	0	—
(C)	0	—
(B)	0.2	—
Q9060		
(E)	0	—
(C)	0	fh: 15.5k~21kHz
	—	fh: 21k~50kHz
(B)	13.3	fh: 15.5k~21kHz
	0	fh: 21k~50kHz
Q9061		
(E)	0	—
(C)	0	fh: 15.5k~21kHz
	4.9	fh: 21k~50kHz
(B)	0.7	fh: 15.5k~21kHz
	0.1	fh: 21k~50kHz

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q9062 (E) (C) (B)	0 6.3~7.1 0 0 4.9	— fh: 15.5k~21kHz, Width MIN~MAX fh: 21k~50kHz fh: 15.5k~21kHz fh: 21k~50kHz
Q9063 (E) (C) (B)	— 0 7.0~4.7	— — fh: 15.5k~50.0kHz
Q9064 (E) (C) (B)	— 0 7.0~4.7	— — fh: 15.5k~50.0kHz
Q9065 (E) (C) (B)	7.0~4.7 28.0 7.6~5.3	fh: 15.5k~50.0kHz — fh: 15.5k~50.0kHz
Q9066 (E) (C) (B)	0 6.6~2.8 20.1	— fh: 15.5k~50.0kHz —
Q9067 (E) (C) (B)	0 6.6~2.8 0	— fh: 15.5k~50.0kHz —
Q9068 (E) (C) (B)	6.1 14.8 6.3	— — —
Q9069 (E) (C) (B)	13.3 0 0 13.3 0	fh: 15.5k~21kHz fh: 21k~50kHz — fh: 15.5k~21kHz fh: 21k~50kHz
Q9070 (E) (C) (B)	0 — 0	— — —
Q4001 (E) (C) (B)	11.4~10.1 5.7 10.9~9.5	fv: 40~120Hz — fh: 40~120Hz
Q4002 (E) (C) (B)	10.3~6.4 3.5 9.7~5.8	fh: 40~120Hz — fh: 40~120Hz
Q4003 (E) (C) (B)	3.1 14.6 3.6	— — —

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q4004 (E) (C) (B)	0 0.2 3.1	— — —
Q4005 (E) (C) (B)	3.9~7.4 -10.6 3.4~6.9	V HEIGHT MIN~MAX — V HEIGHT MIN~MAX
Q4006 (E) (C) (B)	0 0 7.6 0	— — SCAN SELECT: OVER SCAN SELECT: UNDER
CONNECTOR "EB" #1 #2 #3, #8, #9 #10 #4 #5 #6 #7	14.8 12.1 0 0 0.8 0 16.8 0.2	— — — — — — — —
CONNECTOR "EC" #1 #2 #3 #4 #5 #6 #7 #8, #9	12.1 -11.7 11.1~1.1 11.1~1.1 11.1~1.1 1.1~11.1 7.6 0 0	— — SIDE PIN MIN~MAX fv: 40~120Hz V POSITION DOWN~UP V HEIGHT MIN~MAX SCAN SELECT: OVER SCAN SELECT: UNDER —
CONNECTOR "ED" #1 #2 #3 #4 #5 #6 #7 #8, #9 #10 #11	4.9 0.1 0 0.1 4.9 0.2 4.7 0 7.8~12.9 0	— — — — — — — — Full beam~Cut off —
CONNECTOR "DS" #1, #2 #3, #4 #5, #6 #7, #8 #9, #10 #11, #12	-0.2 6.2 6.1 21.9~7.6 21.5~6.7 6.2	— — — fh: 15.5kHz Cut off~ fh: 50kHz Full Beam fh: 15.5kHz, Width MIN~ fh: 50kHz Width MAX —

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "DS" #13, #14 #15, #16 #17, #18 #19, #20 #21, #22 #23, #24 #25, #26, #27, #28	6.3 6.3 13.3 0 1.0~11.0 0 — 0	— — — fh: 15.5k~21kHz fh: 21k~50.0kHz fh: 15.5k~50.0kHz — — —
CONNECTOR "DU" #1, #2 #3, #4 #5, #6 #7, #8, #21 #22 #9, #10 #11, #12 #13, #14 #15, #16 #17, #18 #19, #20 #23, #24 #25, #26 #27, #28	-0.1 11.0~1.0 7.8~12.9 0 0 28.0 14.7 12.1 12.1 -7.6 0 -11.7 0.1 4.8 0	— H Width MIN~MAX Cut off~Full Beam — — — — — — — SCAN SELECT: OVER SCAN SELECT: UNDER — — — — —

DEF SUB PWB WAVEFORM



1

2

3

4

5

6

7

8

• DEF SUB PWB (SOLDER SIDE)

A

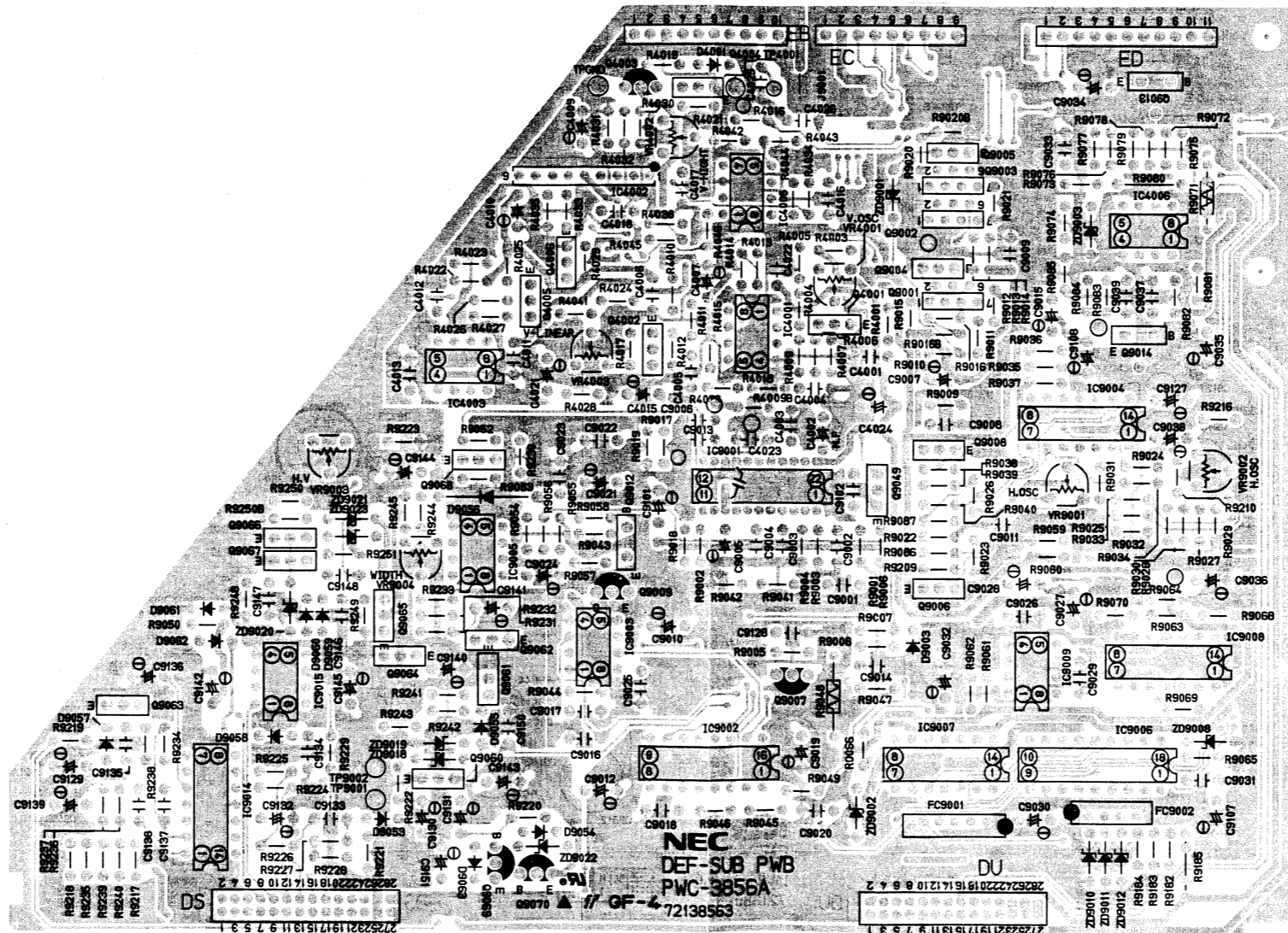
B

C

D

E

F



1 2 3 4 5 6 7 8

A

B

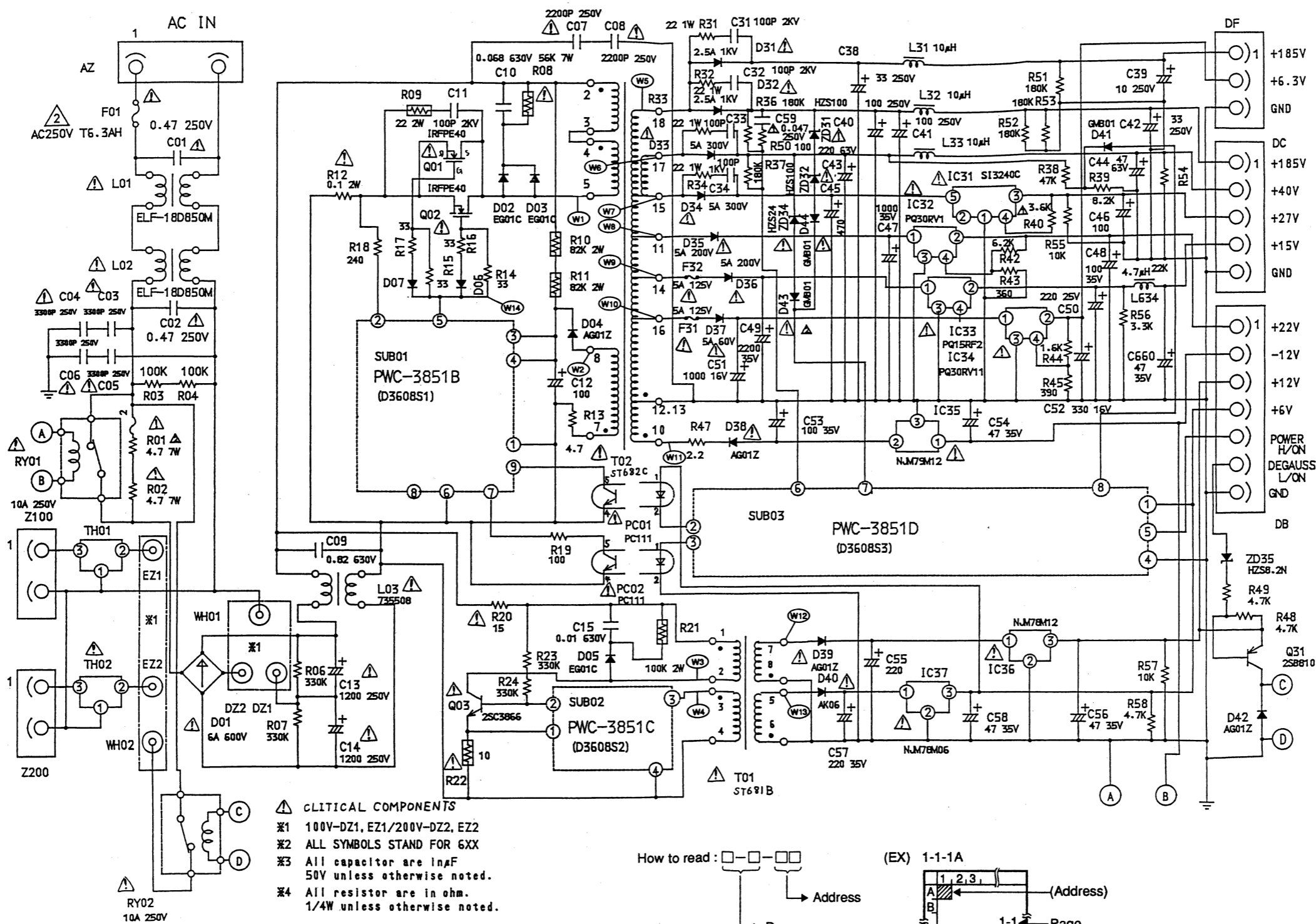
C

D

E

F

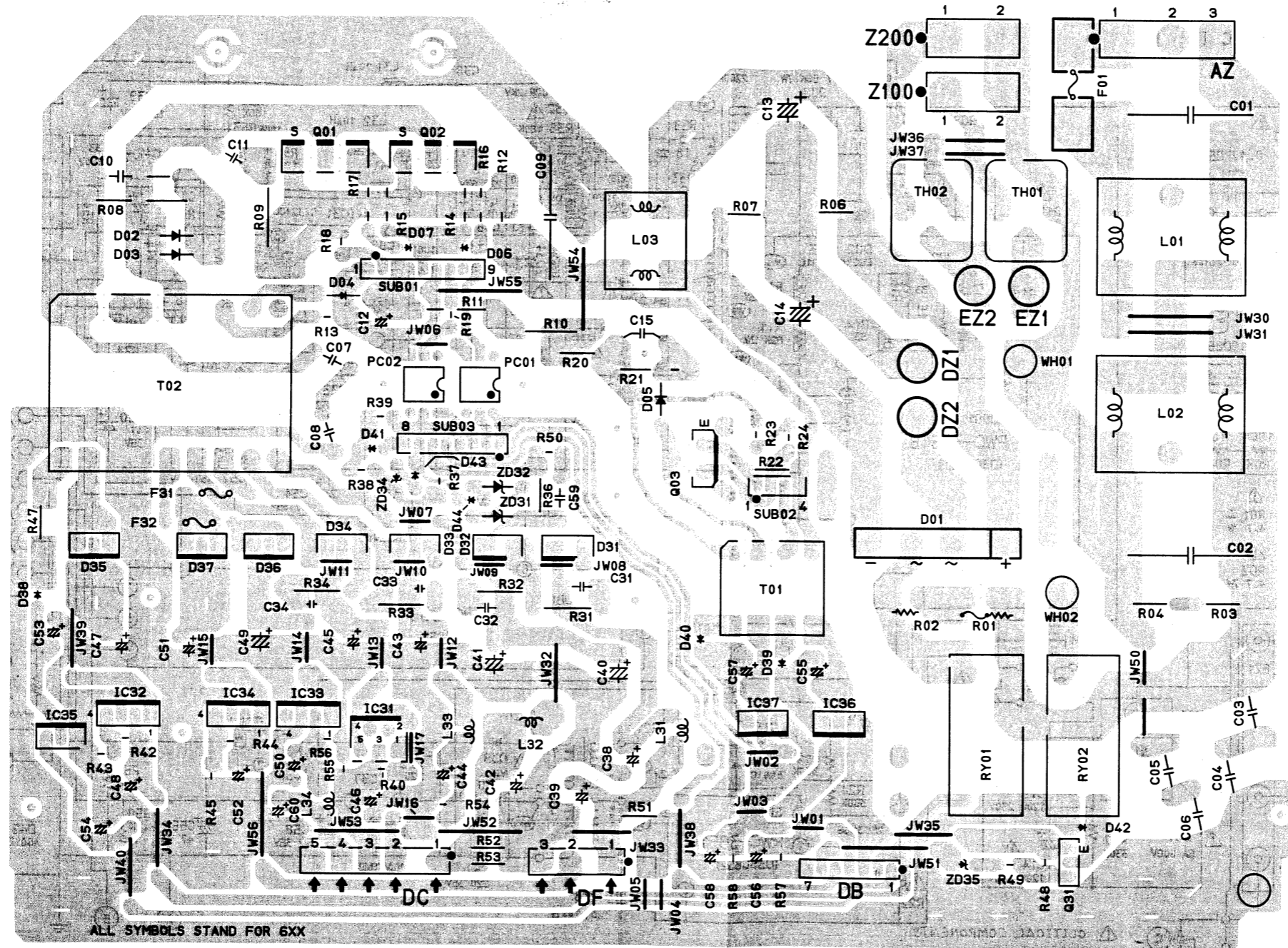
MAIN POWER SUPPLY PWB (PWC-3851A) SCHEMATIC DIAGRAM



1 2 3 4 5 6 7 8

A
B
C
D
E
F

• MAIN POWER SUPPLY PWB (SOLDER SIDE)



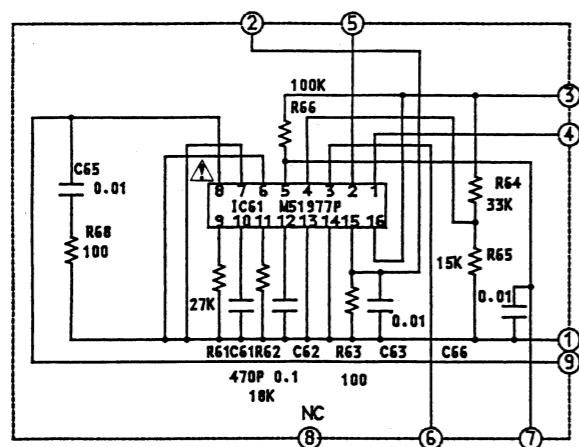
1 2 3 4 5 6 7 8

A

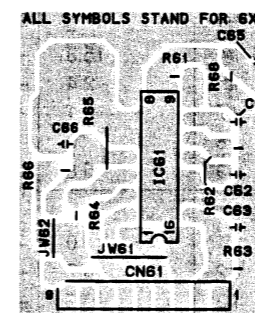
SUB POWER SUPPLY PWB (PWC-3851B, C, D)
SCHEMATIC DIAGRAM

• SUB POWER SUPPLY PWB (SOLDER SIDE)

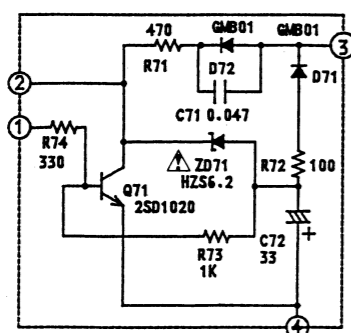
B



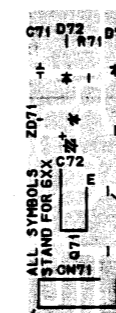
SUB601 (D3608S1)
PWC-3851B



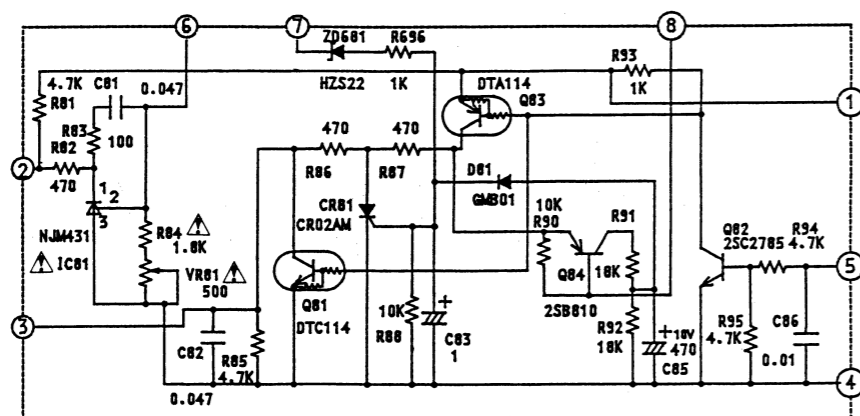
C



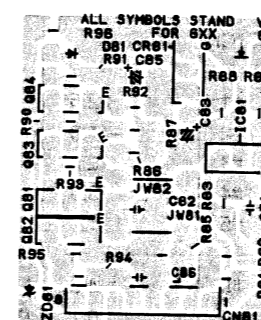
SUB602 (D3608S2)
PWC-3851C



D



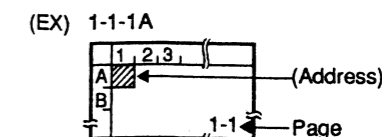
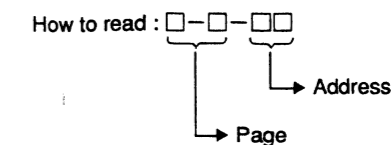
SUB603 (D3608S3)
PWC-3851D



E

F

- ▲ CRITICAL COMPONENTS
- *1 ALL SYMBOLS STAND FOR 6XX
- *2 All capacitor are in μ F. 50V unless otherwise noted.
- *3 All resistor are in ohm. 1/4W unless otherwise noted.

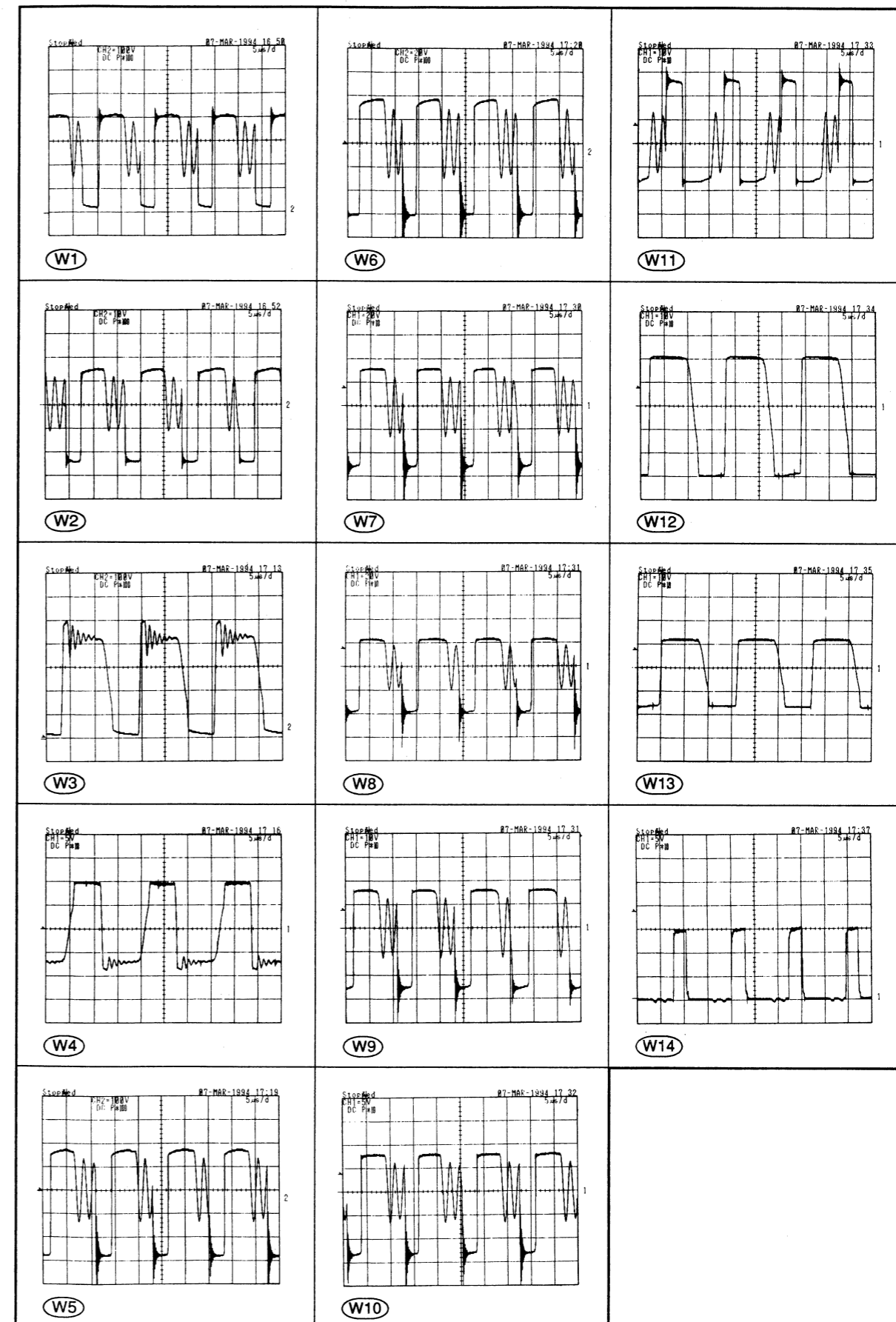


MAIN POWER SUPPLY PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
IC631		
#1	0	—
#2	3.2	—
#3	28.3	—
#4	24.5	—
#5	31.1	—
IC632		
#1	23.0	—
#2	22.5	—
#3	0	—
#4	1.2	—
IC633		
#1	15.2	—
#2	15.0	—
#3	0	—
#4	2.5	—
IC634		
#1	7.6	—
#2	6.3	—
#3	0	—
#4	1.2	—
IC635		
#1	-11.8	—
#2	-15.0	—
#3	0	—
IC636		
#1	20.7	—
#2	0	—
#3	12.2	—
IC637		
#1	11.8	—
#2	0	—
#3	6.0	—
IC661		
#1	15.3	—
#2	2.4	—
#3, #6, #7, #13, #14	0	—
#4	4.8	—
#5	0.1	—
#8	5.8	—
#9	4.7	—
#10	3.1	—
#11	3.6	—
#12	0	—
#15	0	—
#16	15.3	—
Q601		
(S)	0	—
(D)	317	—
(G)	2.3	—
Q602		
(S)	0	—
(D)	317	—
(G)	2.3	—

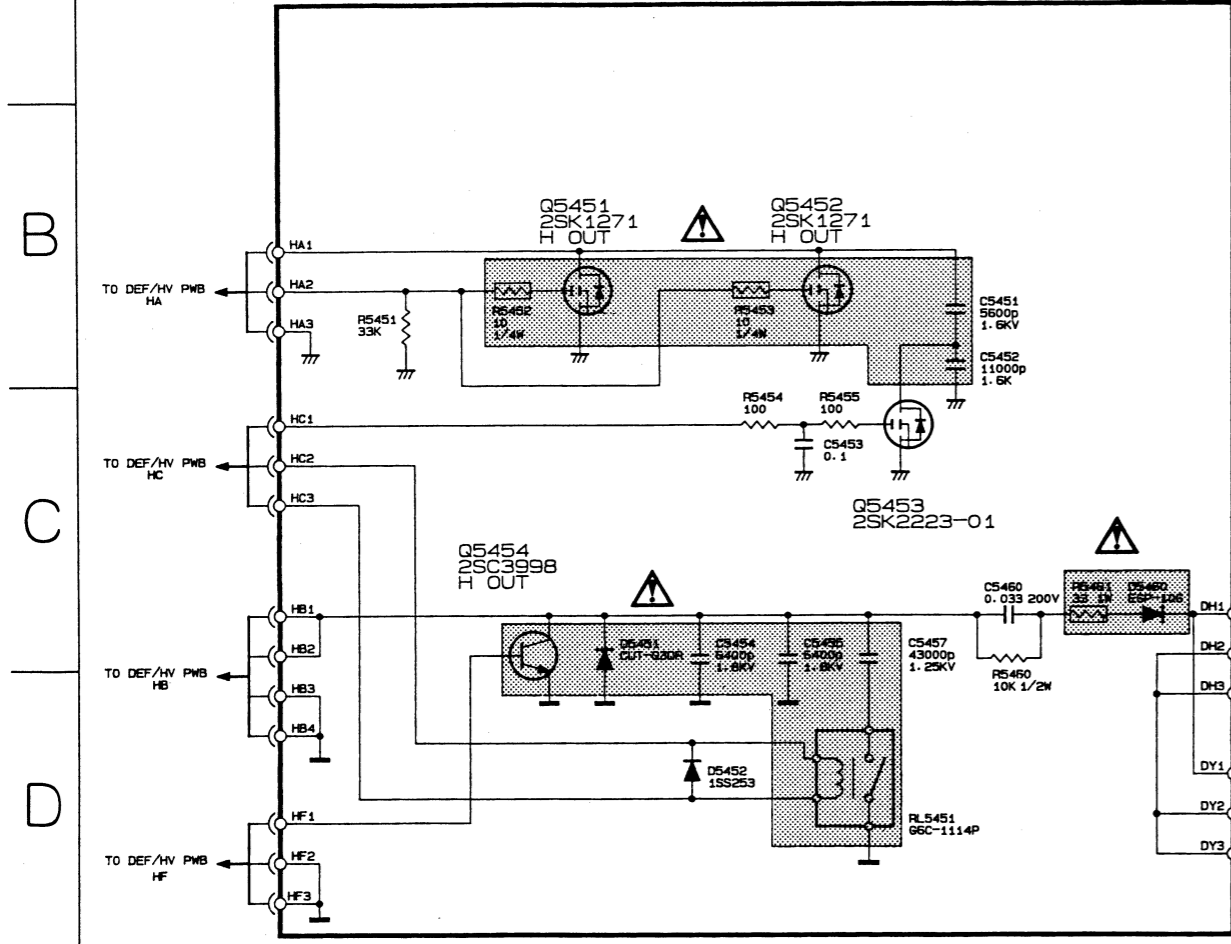
CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q603		
(E)	0	—
(C)	336	—
(B)	-0.7	—
SUB601		
#1, #6	0	—
#2	0	—
#3, #4	15.3	—
#5	2.4	—
#7	0.1	—
#8	0	—
#9	5.8	—
SUB602		
#1	0	—
#2	-0.7	—
#3	-0.7	—
#4	0	—
SUB603		
#1	6.0	—
#2	4.9	—
#3	1.1	—
#4	0	—
#5	1.7	POWER ON
	0	POWER OFF
#6	2.5	—
#7	19.9	—
#8	5.8	—
CONNECTOR "DF"		
#1	187.3	—
#2	6.3	—
#3	0	—
CONNECTOR "DC"		
#1	186.0	—
#2	39.4	—
#3	28.2	—
#4	15.0	—
#5	0	—
CONNECTOR "DB"		
#1	22.5	—
#2	-11.8	—
#3	12.2	—
#4	6.0	—
#5	1.7	POWER ON
	0	POWER OFF
#6	4.8	DEGAUSS OFF
	0.7	DEGAUSS ON
#7	0	—

MAIN POWER SUPPLY WAVEFORM

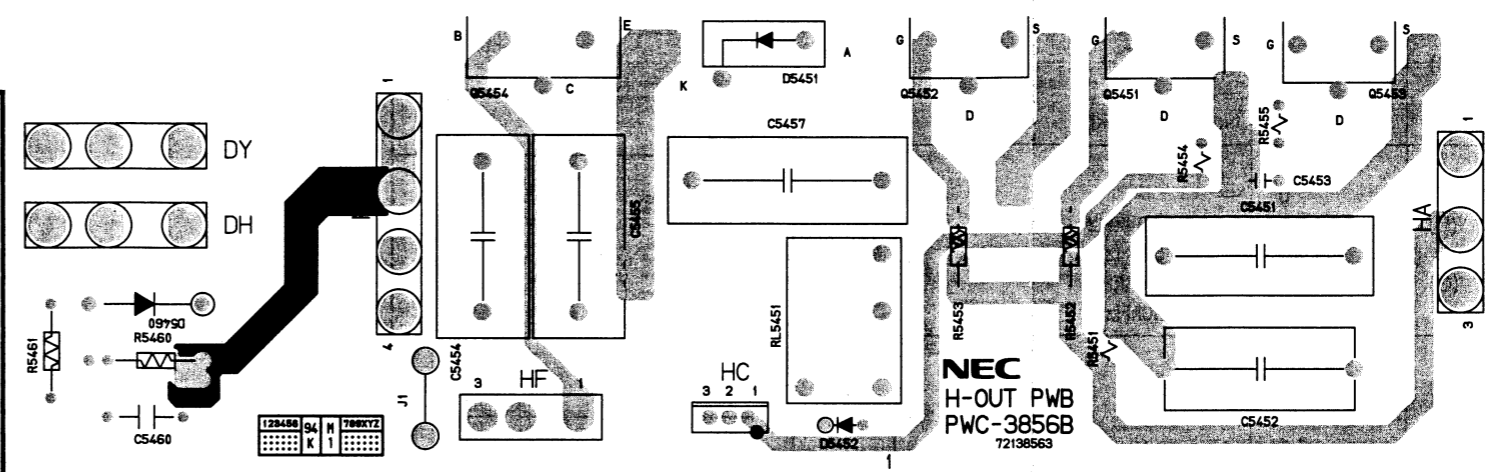


1 2 3 4 5 6 7 8

A H OUT PWB PWC-3856B
SCHEMATIC DIAGRAM



• H OUT PWB (COMPONENT SIDE)



B

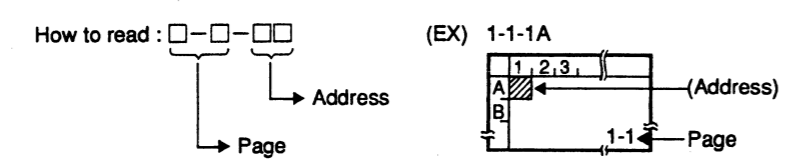
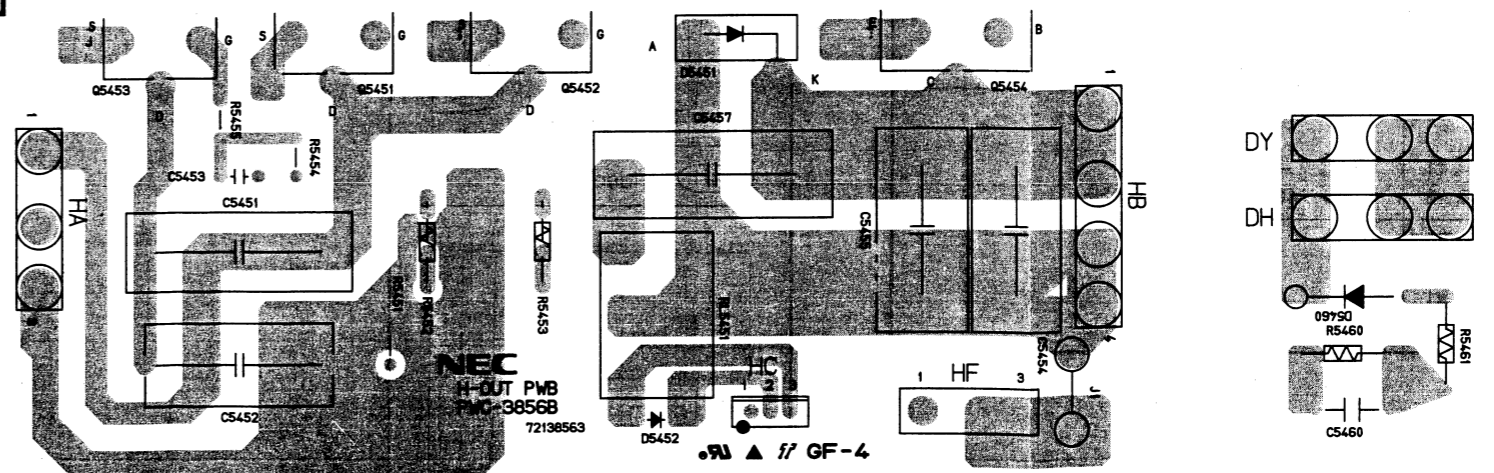
C

D

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F

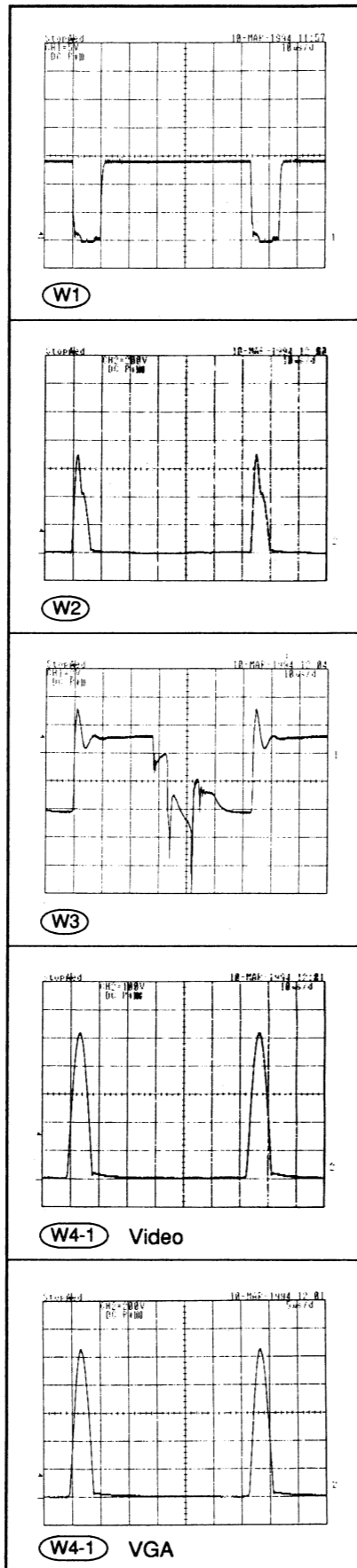
• H OUT PWB (SOLDER SIDE)



H OUT PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
Q5451 (S) (D) (G)	0 — 12.1~7.1	— — fh: 15.5k~50.0kHz
Q5452 (S) (D) (G)	0 — 12.1~7.1	— — fh: 15.5k~50.0kHz
Q5453 (S) (D) (G)	0 0 — 14.0 0	— fh: 15.5k~34kHz fh: 34k~50kHz fh: 15.5k~34kHz fh: 34k~50kHz
Q5454 (E) (C) (B)	0 — -1.1	— — —
CONNECTOR "HA" #1 #2 #3	— 12.1~7.1 0	— fh: 15.5k~50.0kHz —
CONNECTOR "HB" #1, #2 #3, #4	— 0	— —
CONNECTOR "HC" #1 #2 #3	14.0 0 14.0 2.3 14.0	fh: 15.5k~34kHz fh: 34k~50kHz — fh: 15.5k~21kHz fh: 21k~50kHz
CONNECTOR "HF" #1 #2, #3	-1.1 0	— —
CONNECTOR "DH" #1 #2, #3	— 14~140	— fh: 15.5k~50kHz
CONNECTOR "DV" #1 #2, #3	— 14~140	— fh: 15.5k~50kHz

H OUT PWB WAVEFORM



1 2 3 4 5 6 7 8

A

SW-LED PWB PWC-3856C SCHEMATIC DIAGRAM

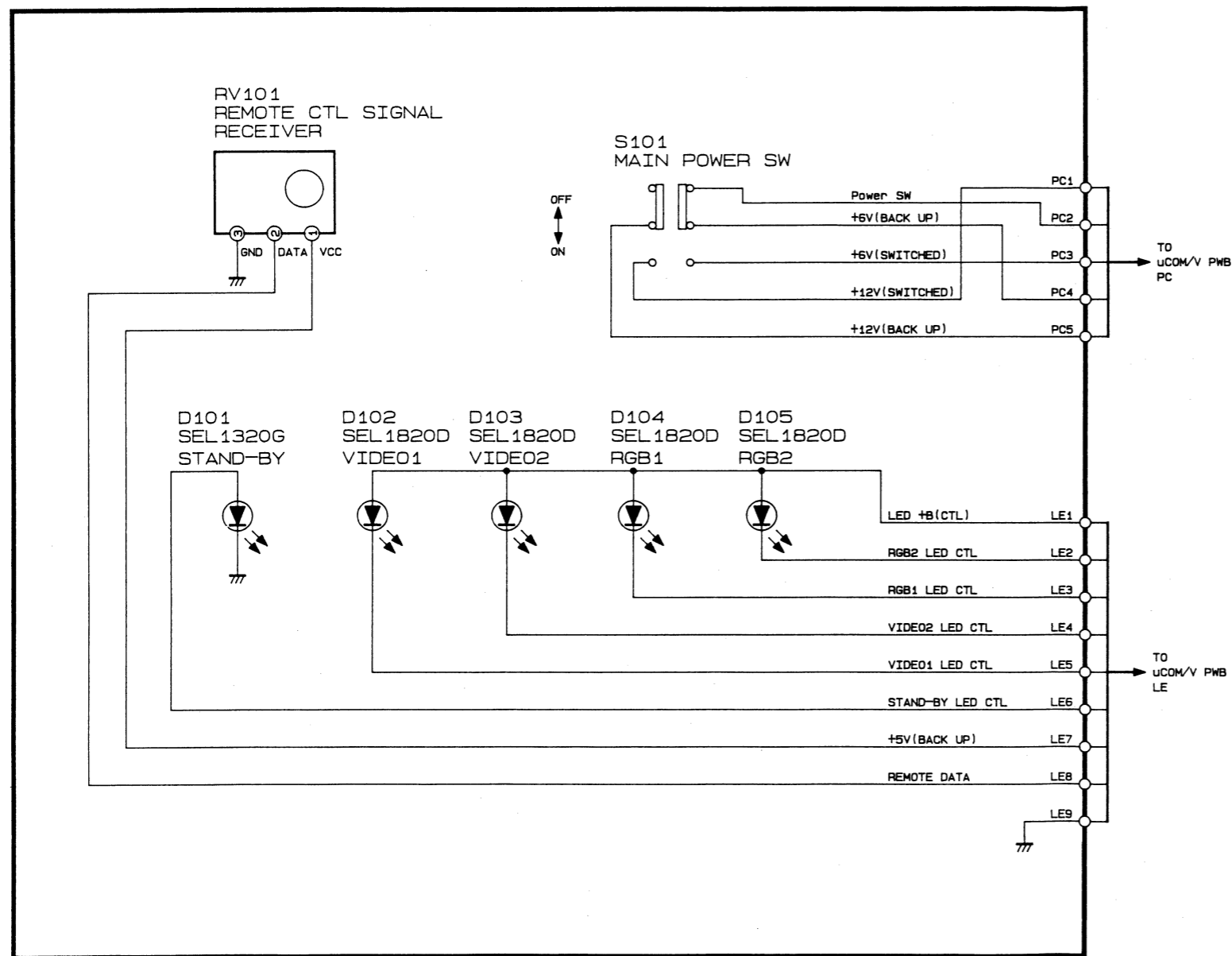
B

C

D

E

F



SW-LED PWB VOLTAGE

CIRCUIT SYMBOL	VOLTAGE (V)	CONDITION
CONNECTOR "PC"		
#1	12.1	MAIN POWER ON
#2	0	MAIN POWER OFF
#3	0	MAIN POWER ON
#4	6.0	MAIN POWER OFF
#5	5.9	MAIN POWER ON
	0	MAIN POWER OFF
	6.0	—
	12.1	—
CONNECTOR "LE"		
#1	5.0	MAIN POWER ON
#2	3.1	RGB 2 Mode
	3.7	Other Mode
#3	3.1	RGB 1 Mode
	3.7	Other Mode
#4	3.1	VIDEO 2 Mode
	3.7	Other Mode
#5	3.1	VIDEO 1 Mode
	3.7	Other Mode
#6	0	POWER ON
	2.0	STAND-BY
#7	5.0	POWER ON
#8	7.1	ditto
#9	0	—

