

SERVICE MANUAL

P991



P991
US Model
Canadian Model
AEP Model
 Chassis No. SCC-L30B-A

F99 CHASSIS

SPECIFICATIONS

Picture tube	0.24 mm (center) -0.25mm (edge) aperture grill pitch 19 inches measured diagonally 90-degree deflection	Power Consumption	
		Maximum	125 W, 436 BTU/h
Video image area	(17.99" maximum viewing image) Approx. 365 X 274 mm (w/h) (14 ^{3/8} x 10 ^{7/8} inches)	Nominal	100 W, 300BTU/h
		Deflection frequency	Horizontal: 30 to 107 KHz (automatic) Vertical: 48 to 120 Hz (automatic)
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines	AC input voltage /current	100 to 120 V, 50/60 Hz, 1.8A (RMS) at 100VAC
			220 to 240V, 50/60Hz, 1.0A (RMS) at 240 VAC
Standard image area	Approx. 352 x 264 mm (w/h) (13 ^{7/8} x 10 ^{1/2} inches)	Dimensions	463 x 449 x 463 (w/h/d) (18.2 x 17.7 x 18.2 inches)
		Mass	Approx. 25.8 kg (56 lb 14 oz)
Input signal			
Video	Analog RGB (75 ohms typical) 0.7 Vp-p, Positive		
Sync	Separate Horizontal and Vertical TTL level, Positive or Negative Video Composite (Sync on Green) 0.3 Vp-p		

Design and specifications are subject to change without notice.

COLOR MONITOR
DELL®

POWER MANAGEMENT MODES

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from keyboard, mouse, or other input devices is detected, the monitor will automatically "wake up." The following table shows the power consumption and signaling of this automatic power saving feature.

	Power consumption mode	Screen (video)	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	Indicator
1	Normal Operation	active	yes	yes	120 W (max.) 95 W (typical)	---	Green
2	Standby (1st mode)	blank	no	yes	6-14 W	Approx. 3 sec.	Green and Orange Alternate
3	Suspend (2nd mode)	blank	yes	no	6-14 W	Approx. 3 sec.	Green and Orange Alternate
4	Active-off (3rd mode)	blank	no	no	2-3 W	Approx. 10 sec.	Orange
5	Power-off	---	---	---	0 W	---	Off

SELF DIAGNOSTIC FUNCTION

When a failure occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

	Status	Area of Failure	LED Indication
1	Failure 1	HV or +B	Amber (0.5 second)/Off (0.5 second)
2	Failure 2	H Stop or V Stop or correction capacitor	Amber (1.5 second)/Off (0.5 second)
3	Failure 3	ABL	Amber (0.5 second)/Off (1.5 second)
4	Aging/Self Test		Amber (0.5 second)/Off (0.5 second)/ Green (0.5 second)/Off (0.5 second)

Timing Specification

MODE	1	2	3	4	5	6	7	8	9	10	11	12
Resolution	720 X 400	640 X 480	640 X 480	640 X 480	800 x 600	800 X 600	1024 X 768	1024 X 768	1280 X 1024	1280 X 1024	1600 X 1200	1600 X 1200
Clock (MHz)	28.321	25.175	31.500	36.000	49.500	56.250	78.750	94.500	135.000	157.500	202.500	229.500
HORIZONTAL												
H-Freq. (KHz)	31.468	31.469	37.500	43.269	46.875	53.674	60.023	68.677	79.976	91.146	93.750	106.250
H. Total	31.779	31.778	26.667	23.111	21.333	18.631	16.660	14.561	12.504	10.971	10.667	9.412
H. Blk	6.356	6.356	6.349	5.333	5.172	4.409	3.657	3.725	3.022	2.844	2.765	2.440
H. FP	0.636	0.636	0.508	1.556	0.323	0.569	0.203	0.508	0.119	0.406	0.316	0.279
H. Sync	3.178	3.813	2.032	1.556	1.616	1.138	1.219	1.016	1.067	1.016	0.948	0.837
H. Bp	2.542	1.907	3.810	2.222	3.232	2.702	2.235	2.201	1.837	1.422	1.501	1.325
H. Active (µsec)	25.423	25.422	20.317	17.778	16.162	14.222	13.003	10.836	9.481	8.127	7.901	6.972
VERTICAL												
V. Freq (Hz)	70.084	59.940	75.000	85.008	75.000	85.061	75.029	84.997	75.025	85.024	75.000	85.000
V. Total	449	525	500	509	625	631	800	808	1066	1072	1250	1250
V. Blk	49	45	20	29	25	31	32	40	42	48	50	50
V. Fp	13	10	1	1	1	1	1	1	1	1	1	1
V. Sync	2	2	3	3	3	3	3	3	3	3	3	3
V. Bp	34	33	16	25	21	27	28	36	38	44	46	46
V. Active (lines)	400	480	480	480	600	600	768	768	1024	1024	1200	1200
SYNC												
Int (G)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ext (H/V)/Polarity	YES -/+	YES -/	NO -/	NO -/	NO +/-	NO +/-	NO +/-	YES +/-	YES +/-	YES +/-	YES +/-	YES +/-
Ext (CS)/Polarity	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Int/ Non Int	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as follows.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Figure A)

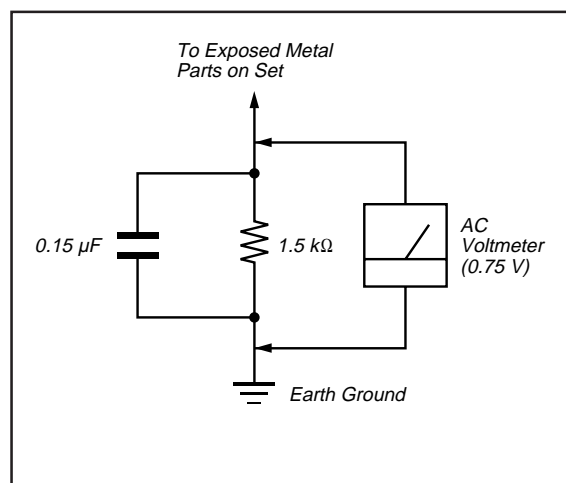


Figure A

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVEE.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT SUSPECTE.

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SECTION 1 GENERAL

A complete copy of the Dell P991 Owners Manual is provided on this CD-ROM. [Click HERE to access.](#)
This information is also available online at www.DELL.com

DELL®

Dell® Model UltraScan P991 Color Monitor Quick Setup

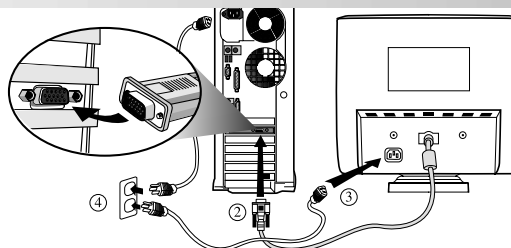
Safety Instructions

Observe the following safety guidelines when connecting and using your monitor:

- Be sure your monitor is electrically rated to operate with the AC power available in your location.
- Locate your monitor near an easily accessible electrical outlet.
- Place the monitor on a solid surface and treat it carefully. The screen can be damaged if dropped, sharply hit, or touched with a sharp or abrasive implement.
- Put your monitor in a location with low humidity and a minimum of dust.
- Never use your monitor if the power cable has been damaged. Do not allow anything to rest on the power cable, and keep the cable away from where people could trip over it.
- Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.
- To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor's case.
- Be sure to hold the plug, not the cable, when disconnecting the monitor from an electrical outlet.
- Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
- Do not expose the monitor to rain or use it near water. If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the exterior of the monitor with a damp cloth when necessary, but be sure to unplug the monitor first.
- If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.



Connecting Your Monitor to a Computer



1. Turn off your computer and unplug the computer power cable.
2. Connect the blue connector of the monitor's signal cable to the blue video connector on the back of your computer. Tighten the connector screws finger tight. Do not overtighten.
3. Fully insert the monitor power cable into the power port on the back of the monitor.
4. Plug the power cables of your computer and your monitor into a nearby electrical outlet.
5. Turn on your computer and monitor. If the monitor does not display an image, refer to the troubleshooting section of this guide.

Driver Installation

Use the monitor CD to install the appropriate monitor driver for your operating system.

Microsoft Windows® 98 Operating System

Windows 98 automatically detects the new monitor and displays the **Add New Hardware Wizard** dialog box if the monitor driver is not already installed.

1. Insert the monitor CD in the CD-ROM drive, and click **next>** twice when the **Add New Hardware Wizard** dialog box appears.
2. Click the **CD-ROM drive** box to install the drivers from the CD and then click **Next>**.
3. Confirm that the driver was found on the CD and click **Next>** twice to install the driver.
4. Click **Finish** to exit the add **New Hardware Wizard** dialog box.

To manually install or update the driver, perform the following steps:

1. Click **Start-> Settings-> Control Panel** and then double-click **Display**.
2. In the **Display Properties** window, click the **Settings** tab, and then click **Advanced**.
3. Click the **Monitor** tab, and then click **Change**.
4. When the **Update Device Driver Wizard** dialog box appears, follow the steps in the previous paragraph.

Microsoft Windows® 95 Operating System

First determine the Windows 95 version installed on your computer by right-clicking the **My Computer** icon on the desktop and selecting **Properties**. The version number is listed under **System**. Perform the steps for the appropriate version.

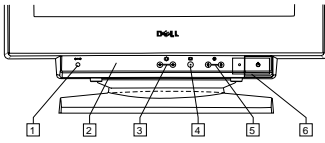
Version 4.00.950A

1. Click **Start-> Settings-> Control Panel** and then double-click **Display**.
2. In the **Display Properties** window, click the **Settings** tab and the click **Change Display Type**.
3. In the **Change Display Type** window, click **Change** and then click **Have Disk**.
4. Insert the monitor CD in the CD-ROM drive, type d:\ (change the drive letter to match your CD-ROM drive if it is not drive D) in the **Copy manufacturer's files from:** box, and click **OK**.
5. In the **Select Device** window, click the appropriate monitor model and the click **OK**.
6. In the **Change Display Type** window, click **Close**.
7. In the **Display Properties** window, click **OK**.

Version 4.00.950B

1. Click **Start-> Settings-> Control Panel** and then double-click **Display**.
2. In the **Display Properties** window, click the **Settings** tab and the click **Advanced Properties**.
3. In the **Advanced Display Properties** window, click the **Monitor** tab and then click **Change**.
4. In the **Select Device** window, click **Have Disk**.
5. Insert the monitor CD in the CD-ROM drive, type d:\ (change the drive letter to match you CD-ROM drive if it is not drive D) in the **Copy manufacturer's files from:** box, and click **OK**.
6. In the **Select Device** window, click the appropriate monitor model and then click **OK**.
7. In the **Advanced Display Properties** window, click **Close**.
8. In the **Display Properties** window, click **OK**.

Monitor Controls and Indicators



1. Resets the adjustments to the factory settings.
2. Adjusts the size and position of the images automatically.
3. Adjust the picture brightness. Operate the $\blacktriangle/\blacktriangleright$ buttons when adjusting other OSDs.
4. Displays the MENU OSD.
5. Adjust the contrast. Operate the $\blacktriangle/\blacktriangleright$ buttons when adjusting other OSDs.
6. Turns the monitor on and off. The indicator lights up green when the monitor is on.



Accessing the User's Guide Online or via CD

To view the latest monitor *User's Guide*, access the **SUPPORT** section of the Dell website (<http://support.dell.com>).

If you do not have Internet access, you can access the guide on the monitor CD:

1. Insert the monitor CD into your CD-ROM drive.
A start-up document should launch automatically; however, if the start-up document does not launch automatically, click **START-> RUN**, type `D:\monitor.htm`, and click **OK**. (Substitute the correct CD-ROM drive letter if it is not the D drive.)
2. Click the appropriate icon to open the *User's Guide* in the desired language.

Note: All applicable warranty and regulatory information regarding your monitor is contained in the User's Guide on your CD.



Troubleshooting Tips

Monitor Has No Power

If the monitor's power indicator is off and no image appears on the display, perform the following checks:

- Ensure that the power cable is fully inserted in the monitor's power port and the electrical outlet.
- Test the electrical outlet by plugging in a working electrical device such as a lamp.
- Ensure that the power button has been depressed, and wait for the power indicator to light.
- Try another power cable on the monitor. Use the computer's power cable and turn on the monitor with the signal cable disconnected. If the monitor is working correctly, a self test pattern appears.

No Image is Displayed on the Monitor

If the monitor power indicator is on but no image appears on the display, perform the following checks:

- Ensure that the video connector is seated properly. Tighten the connector screws securely with your fingers.
- Ensure that computer is on.
- Increase brightness and contrast controls.
- Turn off the monitor and unplug the signal cable. Check the cable connector for bent or broken pins.
- With signal cable still disconnected, turn on the monitor. If the monitor is working correctly, a self test-pattern appears.
- Perform monitor reset or recall.

IMPORTANT!

Before contacting Dell for technical assistance, refer to the Troubleshooting section in the User's Guide on your monitor CD. This section contains detailed information for resolving most monitor problems.

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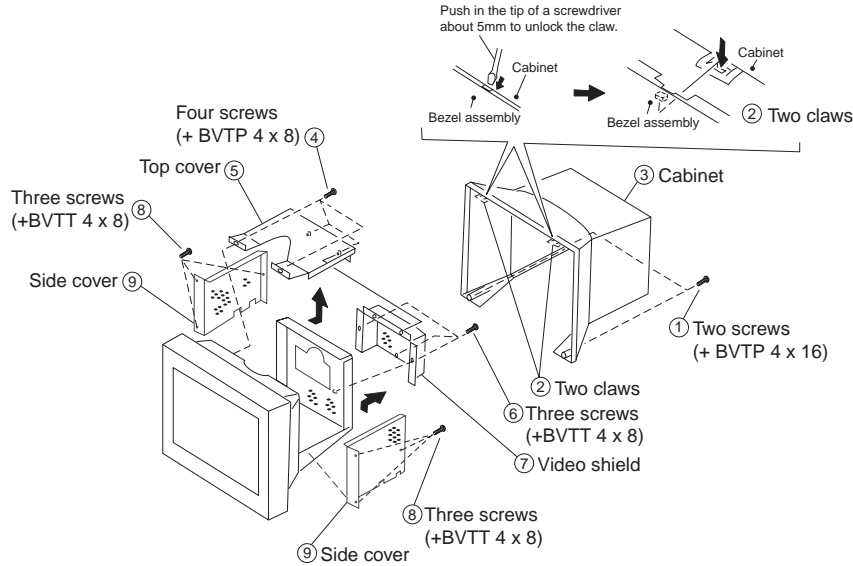
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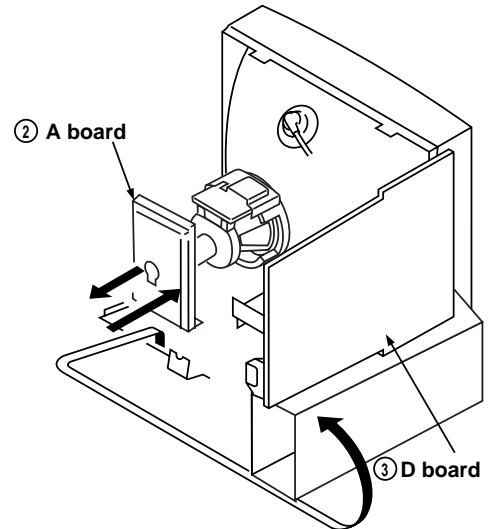
July 1999 P/N 0476T, 1476T, 2476T, 4476T, 5476T and 8376T

SECTION 2 DISASSEMBLY

2-1. CABINET/SHIELD REMOVAL



2-2. SERVICE POSITION

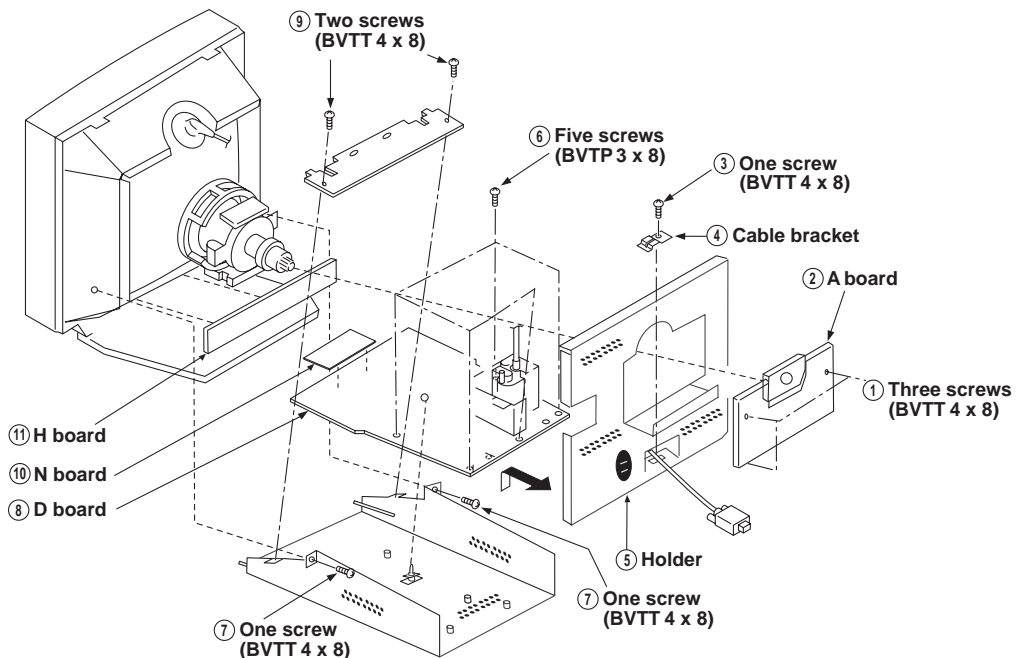


To remove the rear cover of the unit, press in and unsnap the claw on the right side of the unit, then press in and unsnap the right claw at the top of the unit. Repeat this with the claw on the left side and top left of the unit and remove.

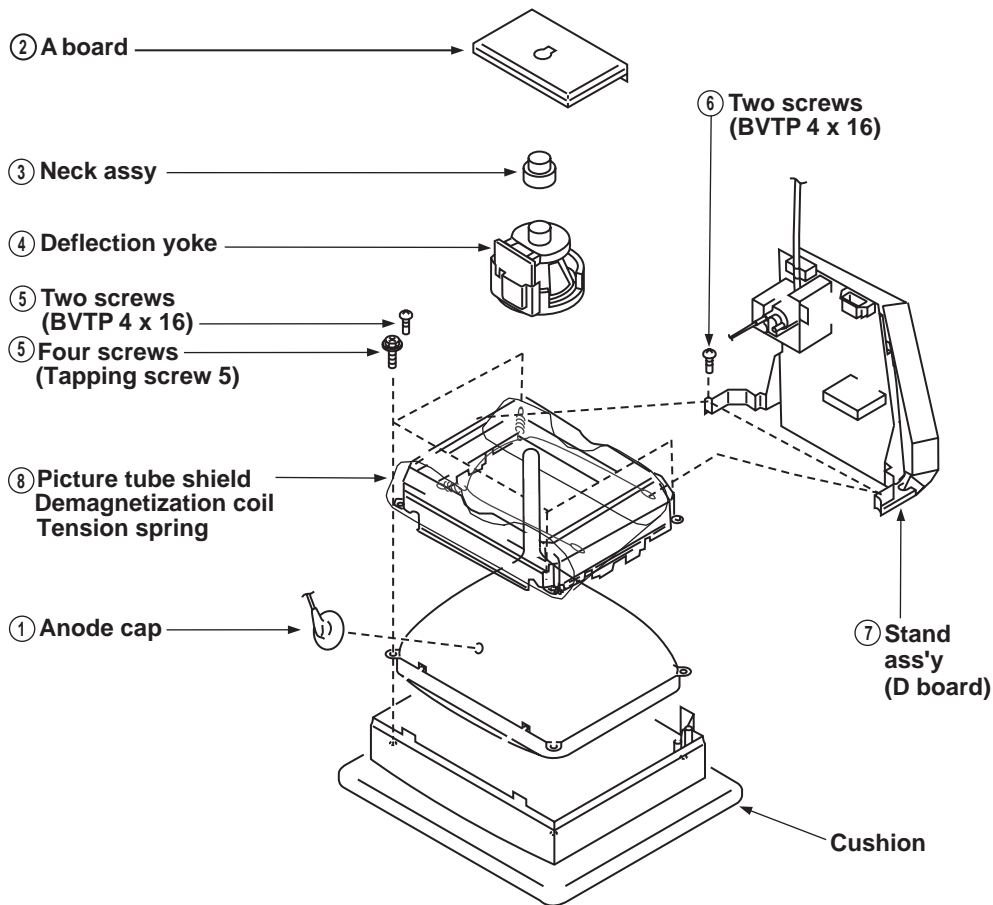
1 When the D-board is placed in service position, the Safety Earth Wire (black wire) is disconnected.

2 After service is completed and the D-board reinstalled, the Safety Earth Wire must be reattached to the chassis. This must be confirmed before any subsequent procedures are attempted.

2-3. D, A, H and N BOARD REMOVAL



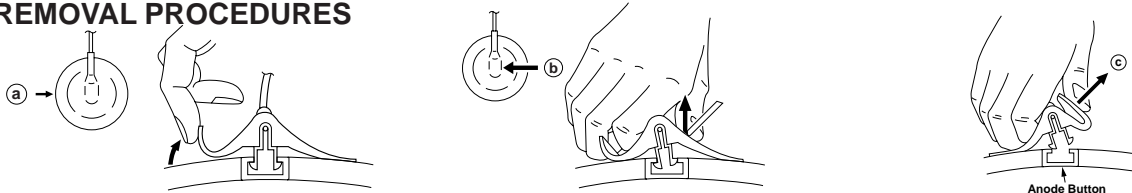
2-4. PICTURE TUBE REMOVAL



REMOVAL OF THE ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

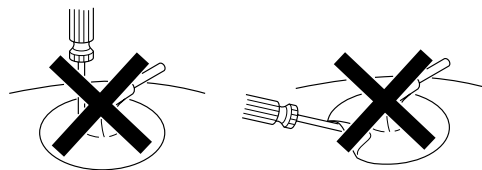
REMOVAL PROCEDURES



1. Turn up one side of the rubber cap in the direction indicated by arrow (a).
2. Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).
3. When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow (c).

HOW TO HANDLE AN ANODE-CAP

1. Do not use sharp objects which may cause damage to the surface of the anode-cap.
2. Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 3 SAFETY RELATED ADJUSTMENT

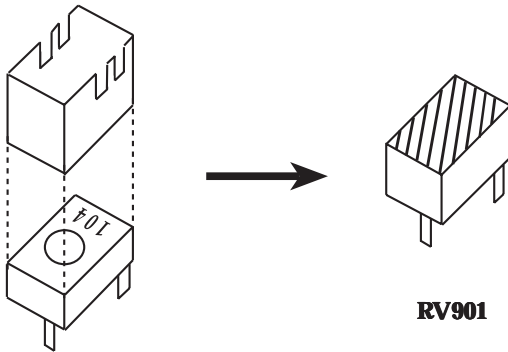
When replacing parts shown in the table below, the following operational checks must be performed as a safety precaution against X-ray emissions from the unit.

	Part Replaced (<input checked="" type="checkbox"/>)
HV ADJ	RV901
	Part Replaced (<input checked="" type="checkbox"/>)
HV Protector Circuit	T901 (FBT), R917, R918, R923, R920, R191, R1004, C920, D911, D912
Beam Current Protector Circuit	R933, R932, R921, R1006, D915, D917, IC901, T901 (FBT)
HV Regulator Circuit	T901 (FBT), IC901, R924, R925, RV901

※ Allow the unit to warm up for one minute prior to checking the following conditions:

HV Regulator Check

- 1) Input white cross hatch signal. (fH = 106.3 kHz)
- 2) CONT and BRT Control normal condition.
- 3) Input voltage: 120 ± 2 VAC
- 4) Confirm that the voltage is within the voltage range shown below.
Standard voltage: $27.0KV \pm 0.2KV$
- 5) When replacing components identified by , make sure to recheck the High Voltage.
- 6) Verify the High Voltage as shown above ($27.0KV \pm 0.2KV$) is within specification. If not, RV904 on "D" board.
- 7) After adjusting the High Voltage within specification, put the RV cover on RV901 as shown below and apply sufficient amount of RTV around RV901.



HV Protector Check

- 1) Confirm the voltage more than 15.0 VDC between D912 cathode and GND on "D" Board.
- 2) Using an external DC power supply, apply the voltage shown below between cathode of D915 on "D" Board and GND.
Confirm that the HV protector circuit (Hold down) works and CRT screen disappears when applying the voltage protector as shown below.

Standard DC Voltage: $21.1 +0.00 / - 0.05$ VDC

Check Condition

- Input voltage : 120 ± 2 VAC
- Input signal : (fH = 31.4 kHz), Cross Hatch
- CONT and BRT Control: Normal Condition

Beam Current Protector Check (Software logic)

- 1) Using an external current source, apply 1.68mA from pin ① of T901 (FBT) to GND on "D" Board.
Confirm that the software logic beam current protector works and that the CRT screen disappears.

Check Condition

- Input voltage : 120 ± 2 VAC
- Input signal : (fH = 31.4 kHz), Cross Hatch
- CONT and BRT Control: Normal Condition

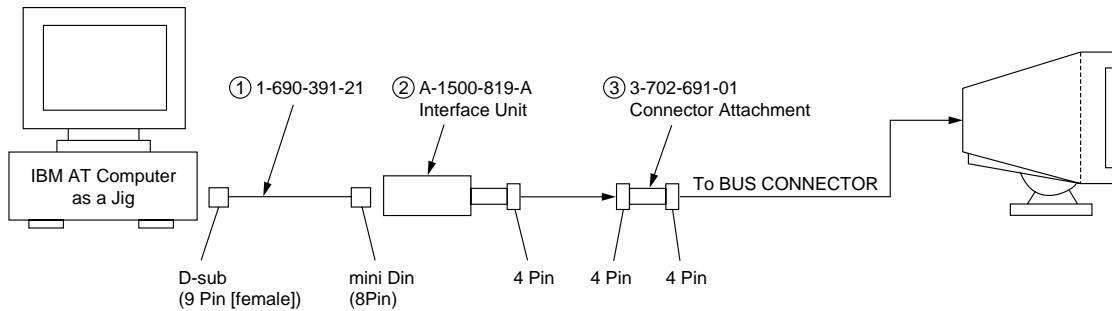
B± Maximum Check

- 1) Input white cross hatch (fH = 106.3 kHz) signal.
- 2) Beam control: Normal condition
- 3) Input voltage: 100 - 120 VAC
Note: Use NF power supply or make sure that distortion factor is 3% or less.
- 4) Confirm that the voltage is within the voltage range shown below.

Standard voltage: $195.0 -205.0$ VDC

SECTION 4 ADJUSTMENTS

Connect the communication cable of the connector located on the D board on the monitor. Run the service software and then follow these instructions.



*The parts above (①-③) are necessary for DAS adjustment.

※ Allow a 30 minute warm-up period prior to making the following adjustments:

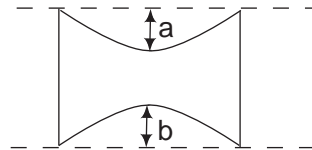
Landing Rough Adjustment

1. Enter the full white signal.
2. Adjust the contrast to the maximum.
3. Input full green signal.
(Note: Turn off the outputs from R ch and B ch of SG)
4. Moving the DY backward, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Moving the DY forward, adjust so that an entire screen becomes pure green.
6. Adjust DY Tilt, use TLV of DY for this adjustment. Fix the Register "TILT" to 0.
7. Lightly tighten the DY screw.

Landing Fine Adjustment

1. Place the set in the Helmholtz coil.
2. Set TLH plate to the zero position.
3. Adjust Purity Magnet on the Neck Assembly to zero position and secure it with white pin.
4. Set "VPIN SAW TOP" and "VPIN SAW BTM" to zero position.
5. Display a plain green pattern.
6. Degauss CRT and shield with hand-degausser.
7. Perform auto-degauss.
8. Attach a wobbling coil to the specified position of CRT.
9. Attach a landing adjuster sensor on the CRT.
10. Using a landing checker, adjust the DY position, purity, tilt of DY.
11. Tighten the DY screw.
Clamping torque: 22 ± 2 kg.cm (2.2 ± 0.2 N.m)
12. Perform auto degauss.
13. Adjust top and bottom pin pitching DY by up and down with two wedges so that (a) is equal to (b) (see the figure at right). Also, leave the yaw of DY to the physical center position with another two wedges.

Fasten wedges so that DY does not move.



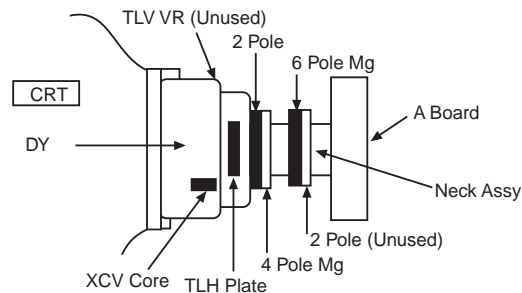
14. If landing does not meet specifications, correct with a disc magnet.
15. Perform auto-degauss.
16. Remove sensor and wobbling coil.
17. Confirm that there is no DY tilt. Affix purity magnet on DY using white paint.

Convergence Rough Adjustment

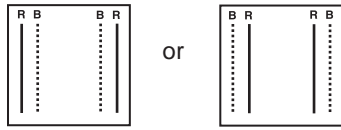
1. Enter the white crosshatch signal.
2. Roughly adjust the H. STAT and V. STAT with a four-pole magnet.
3. Roughly adjust HMC and VMC with a six-pole magnet.

Convergence Fine Adjustment

1. Display crosshatch pattern with R and B.
2. Adjust H. STAT and V. STAT with 4-pole magnet.
(Do not adjust H. STAT and V. STAT with resistor.)

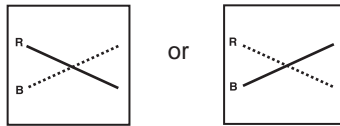


3. Display white crosshatch pattern.
4. Adjust HMC and VMC with 6-pole magnet.
5. Display crosshatch pattern with R and B.
6. Adjust H.STAT and V.STAT with 4-pole magnet.
7. Fine adjust H. STAT and V. STAT with use register 'HSTAT' and 'VSTAT' in the range of 0 ± 10 .
8. Adjust H.TILT with TLH plate.



Move of THL Plate

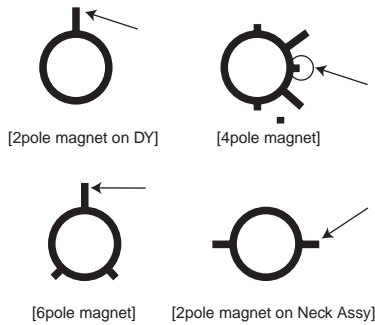
9. Adjust XCV with XCV core.



Move of XCV Volume

10. Repeat steps 2-8 to optimize condition of whole screen.
11. Affix 4-pole magnet, 6-pole magnet and TLH plate and XCV core with white paint.

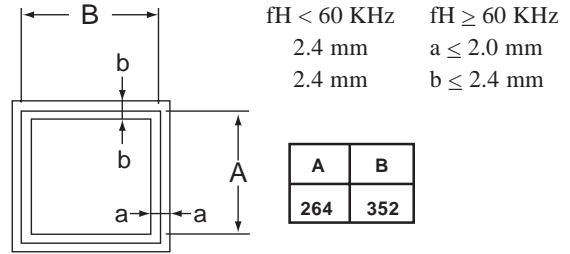
Zero positions of Ring Magnets are indicated by arrows



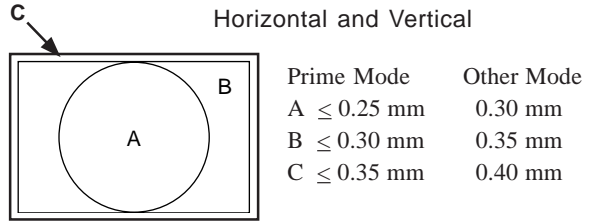
White Balance Adjustment Specification

1. 9300K
 $x=0.283 \pm 0.015$
 $y=0.298 \pm 0.015$
 (All White)
2. 5000K
 $x=0.346 \pm 0.015$
 $y=0.359 \pm 0.015$
 (All White)

Vertical and Horizontal Position and Size Specification

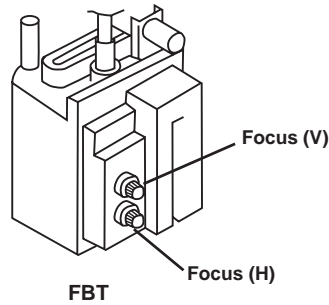


Convergence Specification



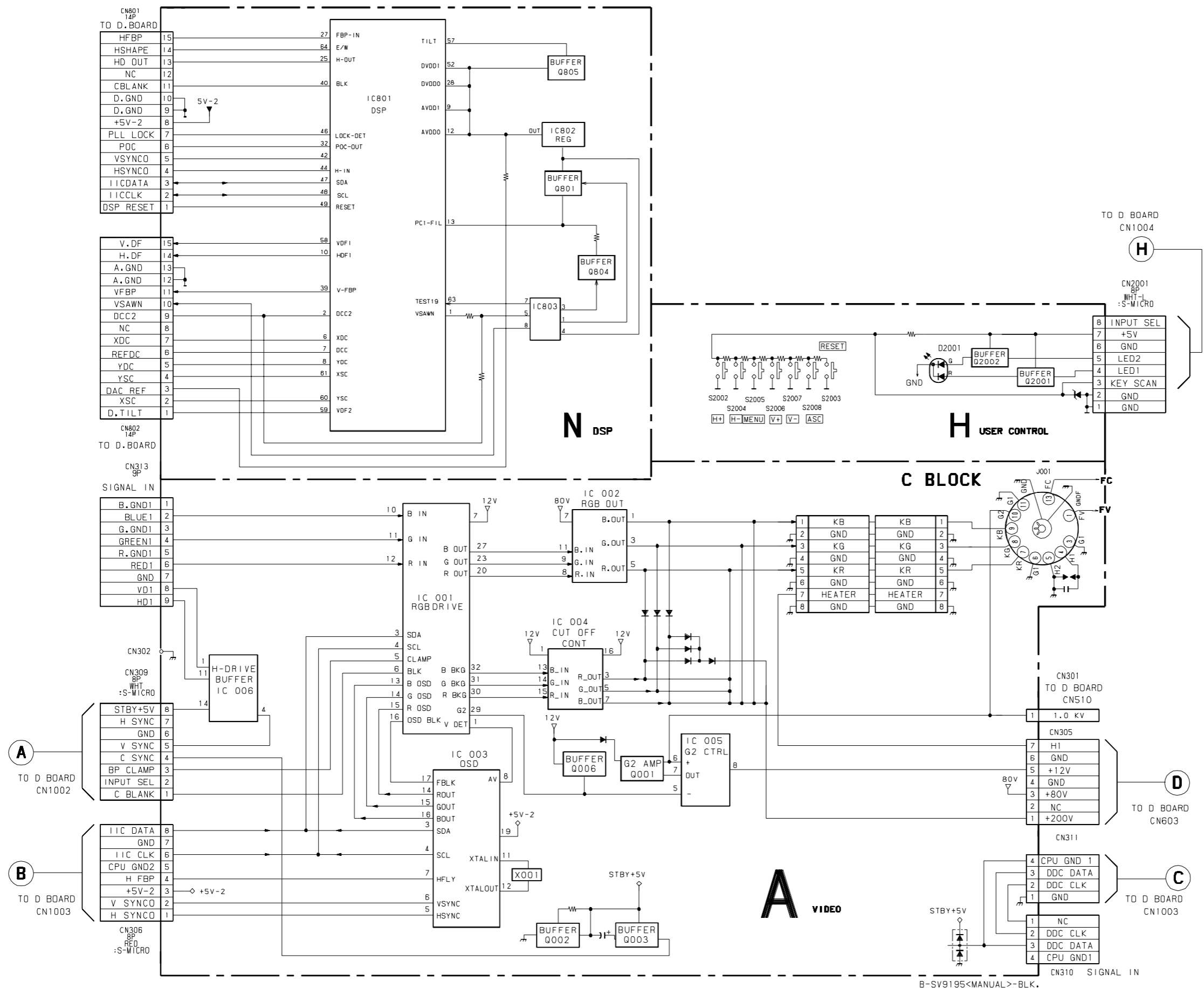
Focus adjustment

Adjust focus (V) and focus (H) for optimum focus.



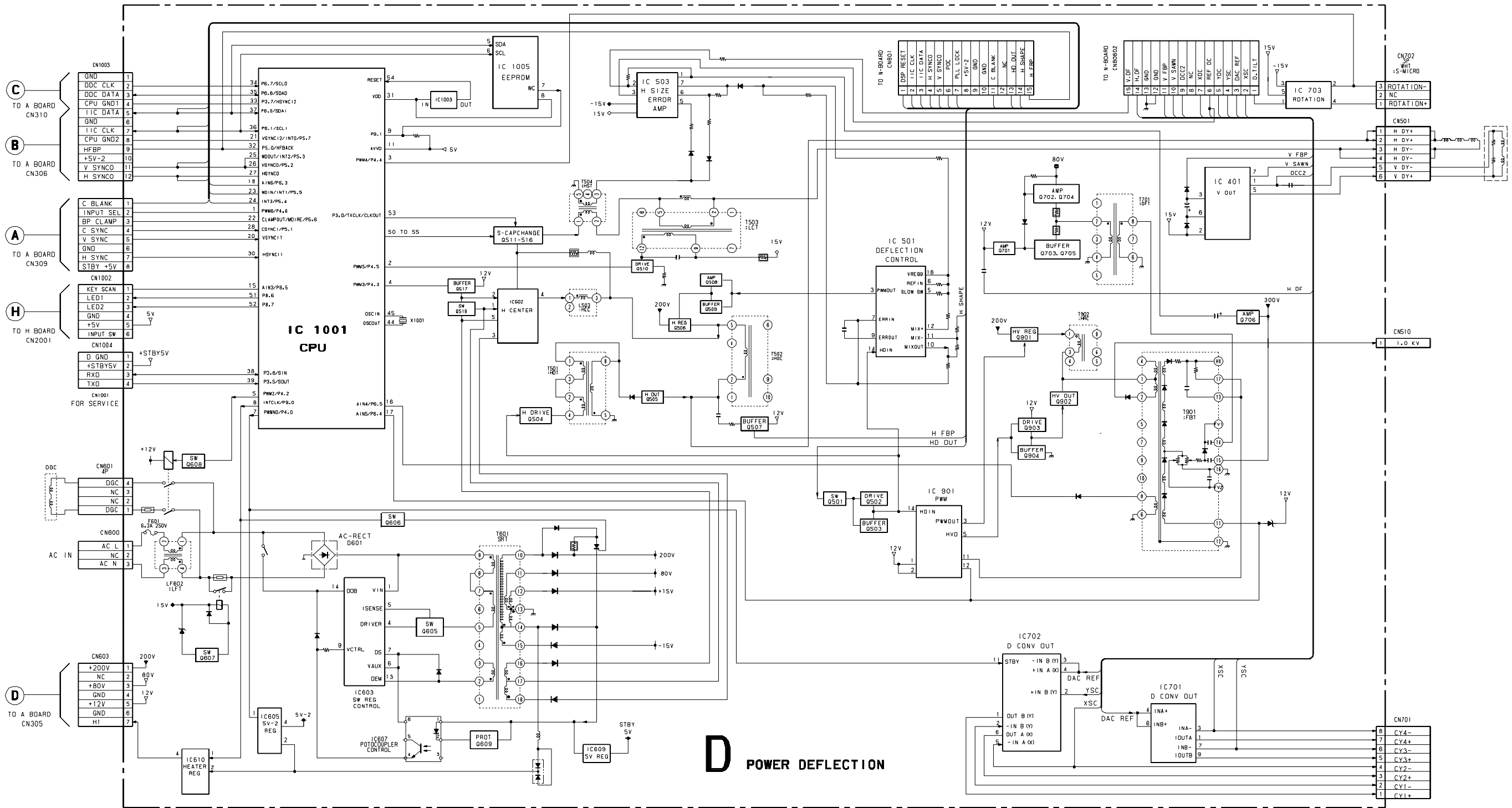
5.1-1 BLOCK DIAGRAM (1/2)

SECTION 5 DIAGRAMS



B-SV9195<MANUAL>-BLK.

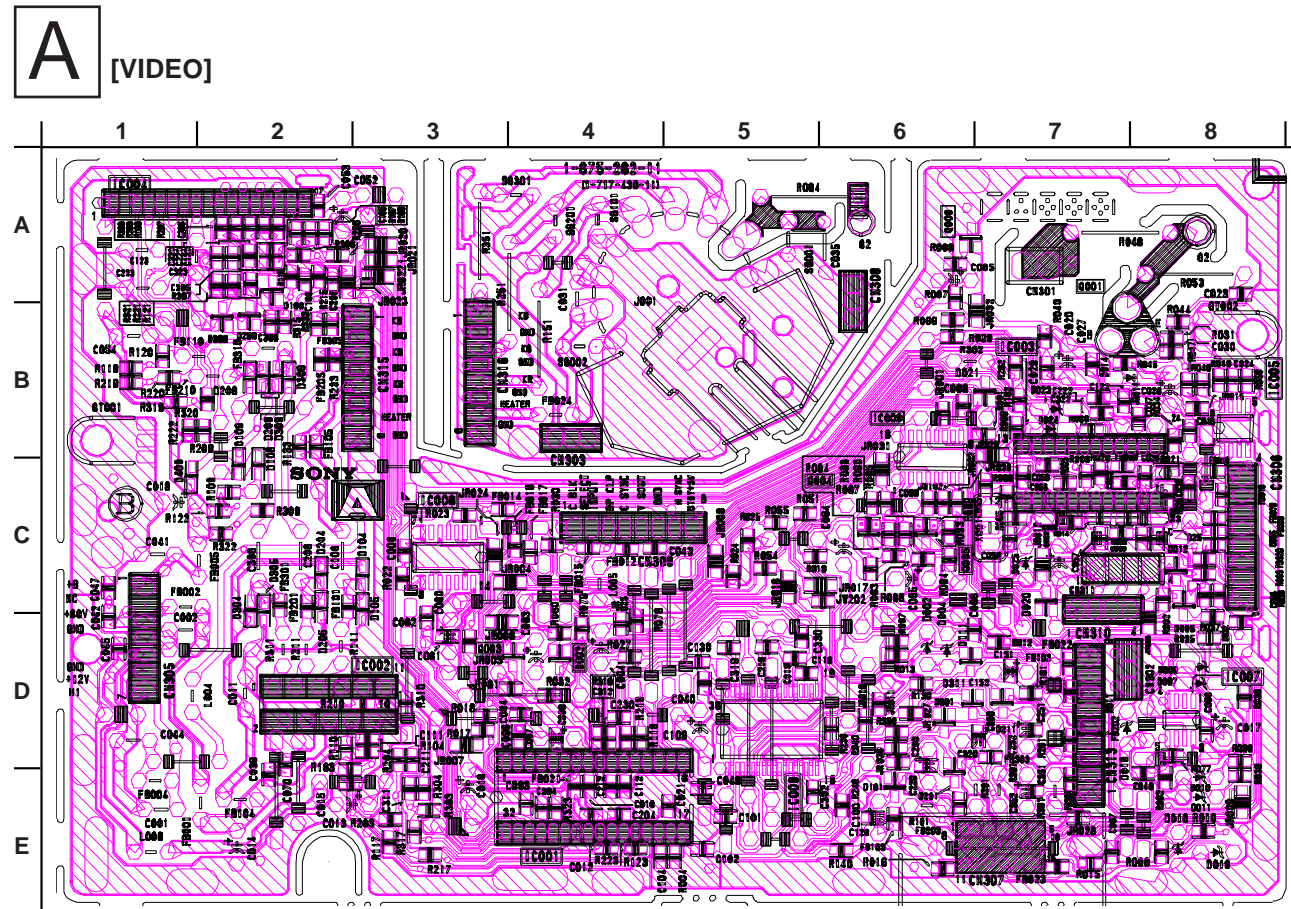
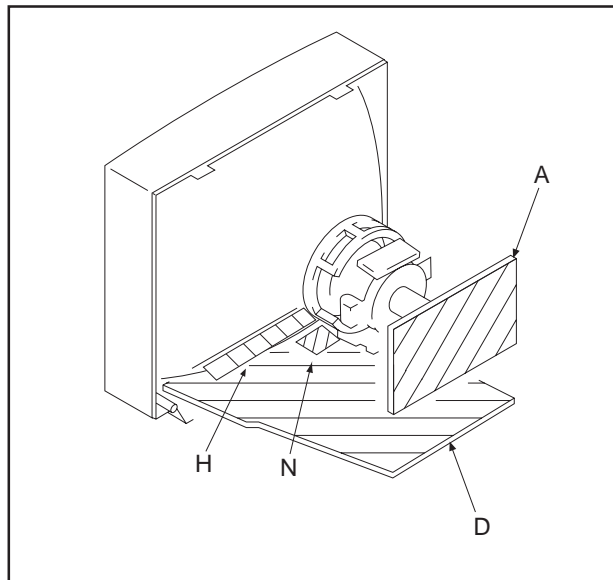
5.1-2 BLOCK DIAGRAM (2/2)



B-SV9195<MANUAL>-BLK.

← BLOCK DIAGRAM

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP: 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- \triangle : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground
- $\text{---}\text{||}\text{---}$: earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments by using RV901 () as indicated. (See page 9)

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- When replacing parts shown in the table below, be sure to perform the safety related adjustment.

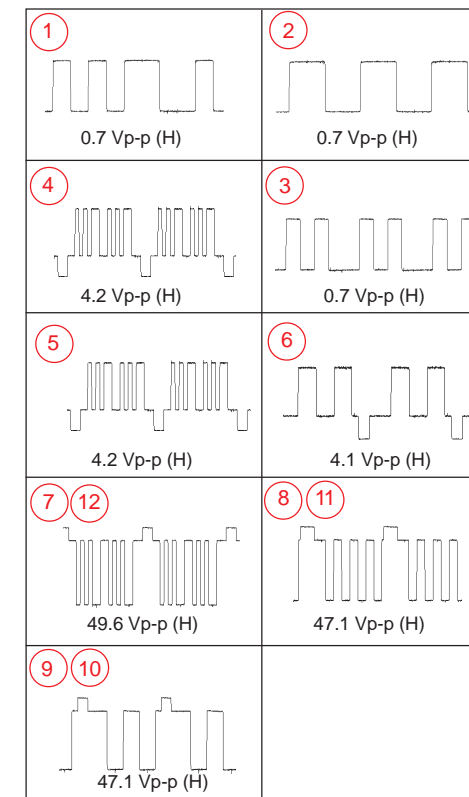
	Part Replaced ()
HV ADJ	RV901
	Part Replaced ()
HV Protector Circuit	T901 (FBT), R917, R918, R923, R920, R191, R1004, C920, D911, D912
Beam Current Protector Circuit	R933, R932, R921, R1006, D915, D917, IC901, T901 (FBT)
HV Regulator Circuit	T901 (FBT), IC901, R924, R925, RV901

- All voltages are in volts.
- Readings are taken with a 10 MW digital multimeter
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Cannot be measured.
- Circled numbers are waveform references.
- : B +bus.
- : B - bus.

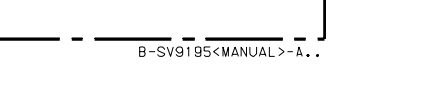
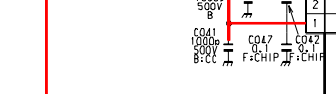
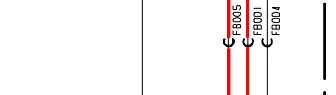
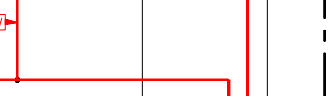
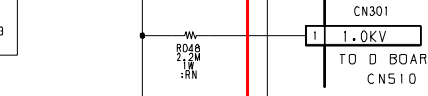
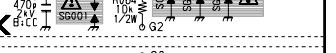
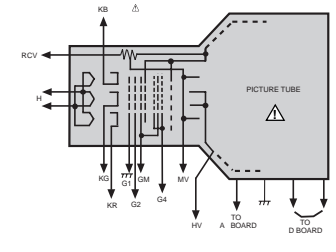
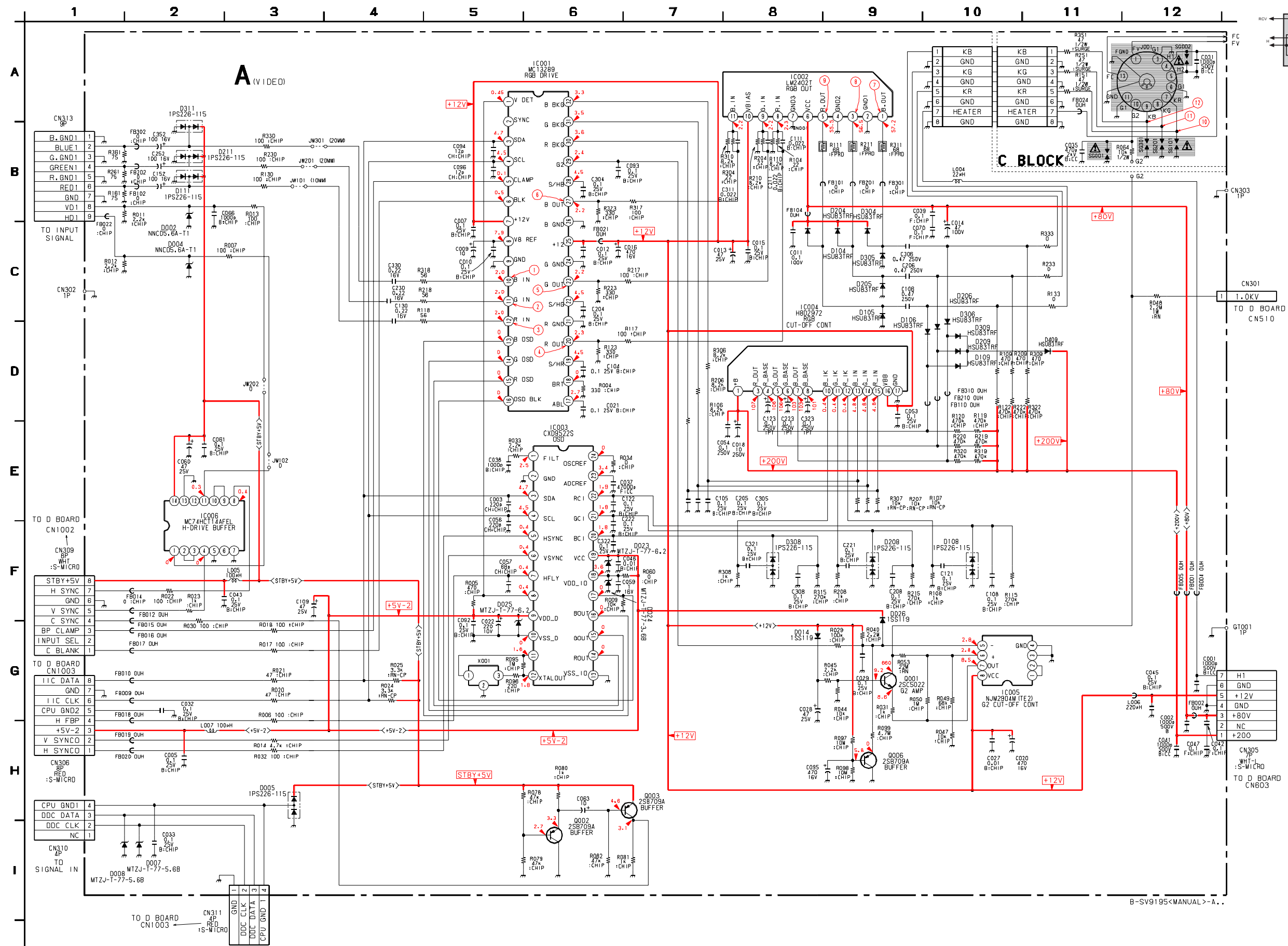
A BOARD LOCATION LIST

DIODE		IC	
D005	C - 8	IC001	E - 4
D007	D - 8	IC002	D - 3
D008	D - 8	IC003	B - 7
D014	B - 7	IC004	A - 1
D023	B - 7	IC005	B - 8
D024	B - 7	IC006	C - 3
D025	C - 7	TRANSISTOR	
D104	C - 3	Q001	A - 7
D105	C - 3	Q002	D - 4
D106	B - 2	Q003	D - 3
D108	A - 2	Q006	A - 6
D109	B - 2		
D111	C - 6		
D204	C - 2		
D205	C - 2		
D206	B - 2		
D208	B - 2		
D209	B - 2		
D211	D - 7		
D304	C - 2		
D305	C - 2		
D306	B - 2		
D308	B - 2		
D309	B - 2		
D311	D - 6		
D409	B - 2		

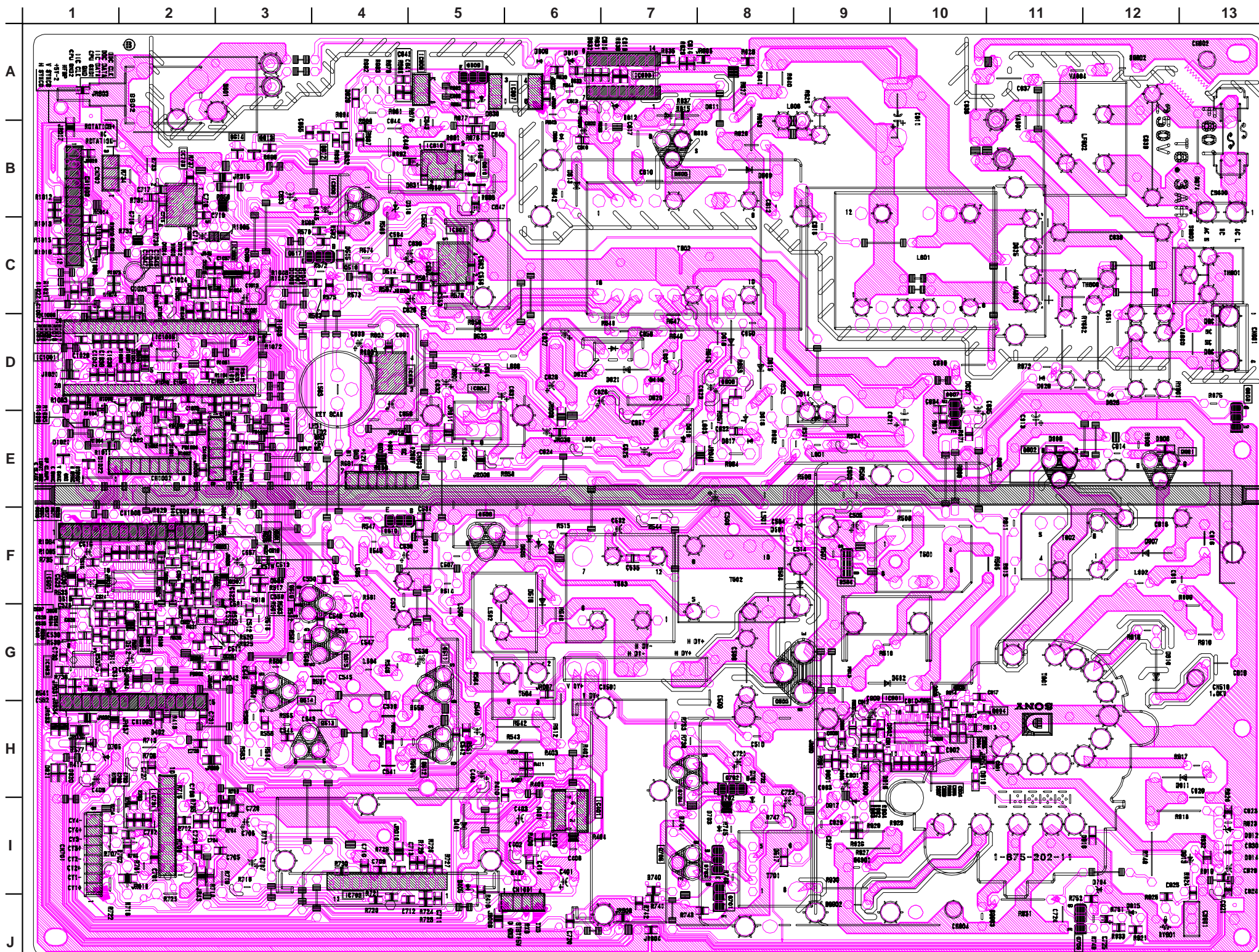
A BOARD WAVEFORMS



A BOARD SCHEMATIC DIAGRAM

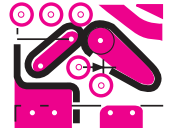


D [POWER DEFLECTION]

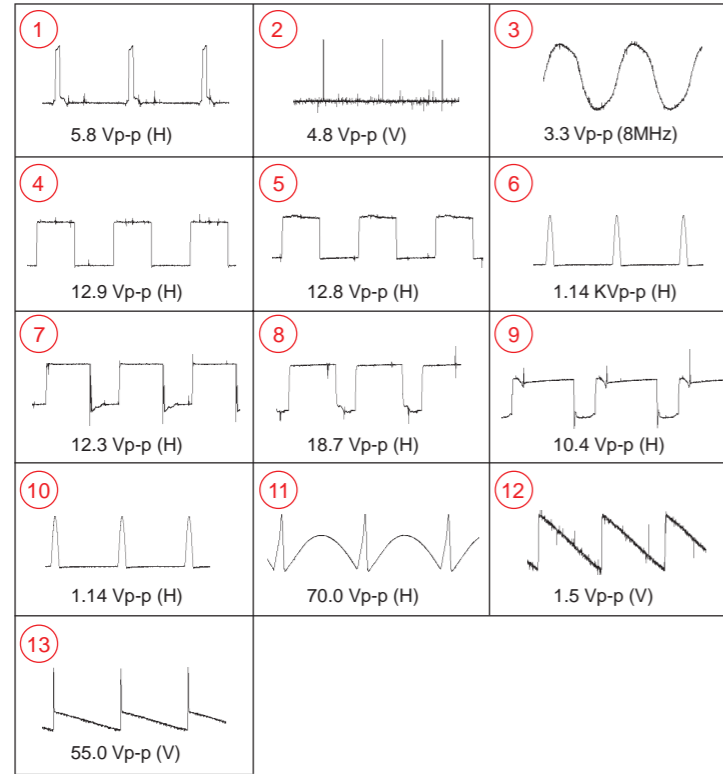


D BOARD LOCATION LIST

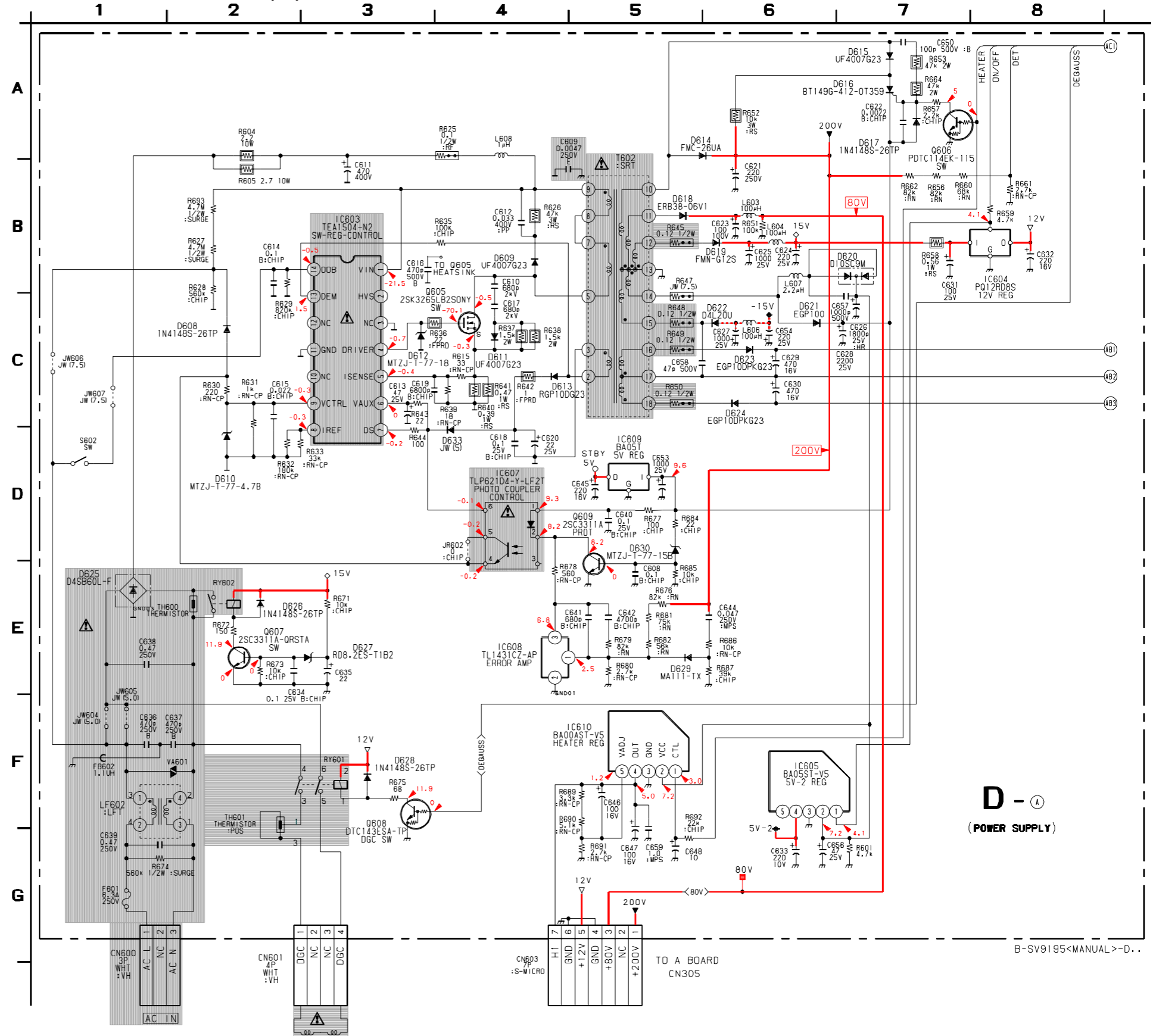
DIODE		TRANSISTOR		IC	
D401	I - 5	D701	H - 8	IC609	B - 4
D405	I - 5	D702	H - 8	IC610	B - 5
D501	F - 8	D703	I - 8	IC701	I - 2
D502	G - 10	D901	H - 9	IC702	J - 4
D503	F - 6	D903	H - 10	IC703	B - 2
D504	F - 8	D904	H - 10	IC901	G - 10
D505	F - 6	D906	E - 12	IC1001	D - 1
D506	F - 3	D907	F - 12	IC1003	C - 3
D507	G - 1	D908	H - 10	IC1005	D - 2
D508	G - 1	D909	E - 11		
D509	F - 2	D910	G - 12	Q501	F - 3
D510	F - 1	D911	H - 13	Q502	F - 2
D511	G - 1	D912	I - 13	Q503	F - 2
D512	G - 1	D913	I - 13	Q504	F - 9
D514	C - 4	D914	I - 13	Q505	H - 8
D515	C - 4	D915	J - 12	Q506	F - 5
D516	F - 6	D917	I - 9	Q507	F - 3
D517	I - 8	D1001	E - 2	Q508	G - 3
D518	B - 4	D1003	D - 2	Q509	G - 2
D519	C - 4	D1004	D - 2	Q510	F - 4
D608	A - 6	D1005	D - 2	Q511	G - 5
D609	B - 8	D1006	D - 1	Q512	H - 5
D610	A - 6	D1007	C - 3	Q513	H - 4
D611	A - 8	D1008	C - 3	Q514	H - 3
D612	A - 7	D1009	E - 2	Q515	G - 4
D613	B - 6	D1010	C - 2	Q516	F - 3
D614	D - 9	D1011	C - 2	Q517	C - 3
D615	D - 8	D1012	C - 2	Q519	C - 4
D616	E - 8	D1013	C - 2	Q605	B - 7
D617	E - 8	D1018	C - 1	Q606	D - 8
D618	D - 8	D1021	E - 1	Q607	D - 10
D619	E - 7	D1022	E - 1	Q608	D - 13
D620	D - 7	D1024	C - 3	Q609	B - 4
D621	D - 7	D1025	E - 2	Q610	B - 5
D622	D - 6	IC		Q701	I - 8
D623	D - 4	IC401	I - 6	Q702	H - 8
D624	C - 5	IC501	F - 1	Q703	I - 8
D625	C - 11	IC502	C - 5	Q704	I - 7
D626	D - 11	IC503	G - 1	Q705	I - 7
D627	D - 10	IC603	A - 7	Q706	J - 11
D628	D - 12	IC604	D - 5	Q901	E - 13
D629	A - 3	IC605	D - 4	Q902	E - 11
D630	A - 5	IC607	A - 6	Q903	G - 10
D631	A - 5	IC608	A - 5	Q904	H - 11

 **NOTE:**
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

D BOARD WAVEFORMS

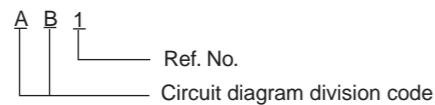


D BOARD SCHEMATIC DIAGRAM (1/3)



Divided circuit diagram

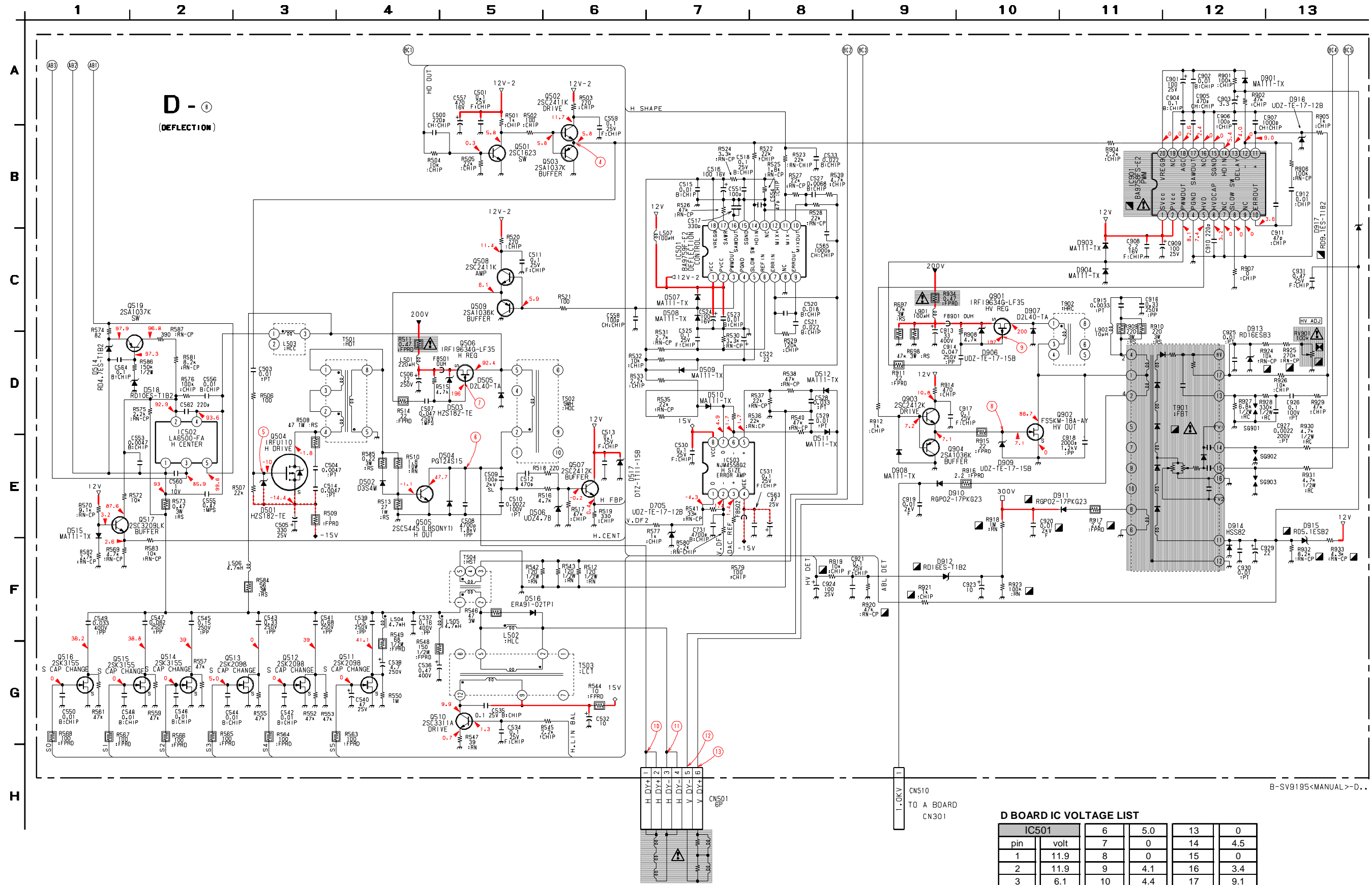
D board circuit diagram is divided into three sheets, each having the code D-A to D-C. For example, the destination (AB1) on the code D-A sheet is connected to (AB1) and (BC1) on the D-B and D-C sheet.



D - A
(POWER SUPPLY)

B-SV9195<MANUAL>-D..

D BOARD SCHEMATIC DIAGRAM (2/3)

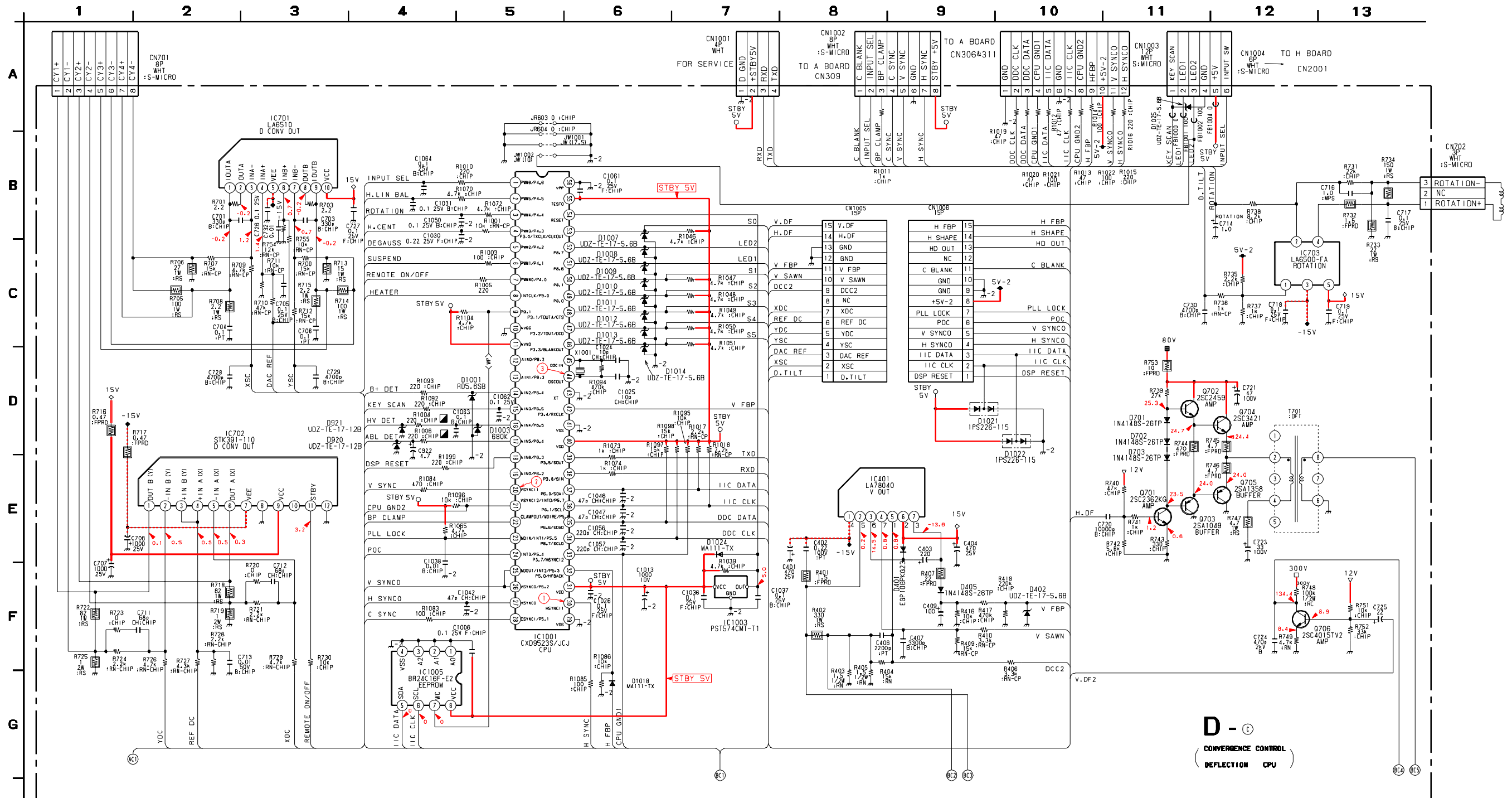


D BOARD IC VOLTAGE LIST

IC501	pin	volt	6	5.0	13	0
	1	11.9	8	0	14	4.5
	2	11.9	9	4.1	15	0
	3	6.1	10	4.4	16	3.4
	4	0	11	3.2	17	9.1
	5	8.0	12	3.2	18	9.1

All Voltages are in V

D BOARD SCHEMATIC DIAGRAM (3/3)



D - ()
 CONVERGENCE CONTROL
 DEFLECTION CPU

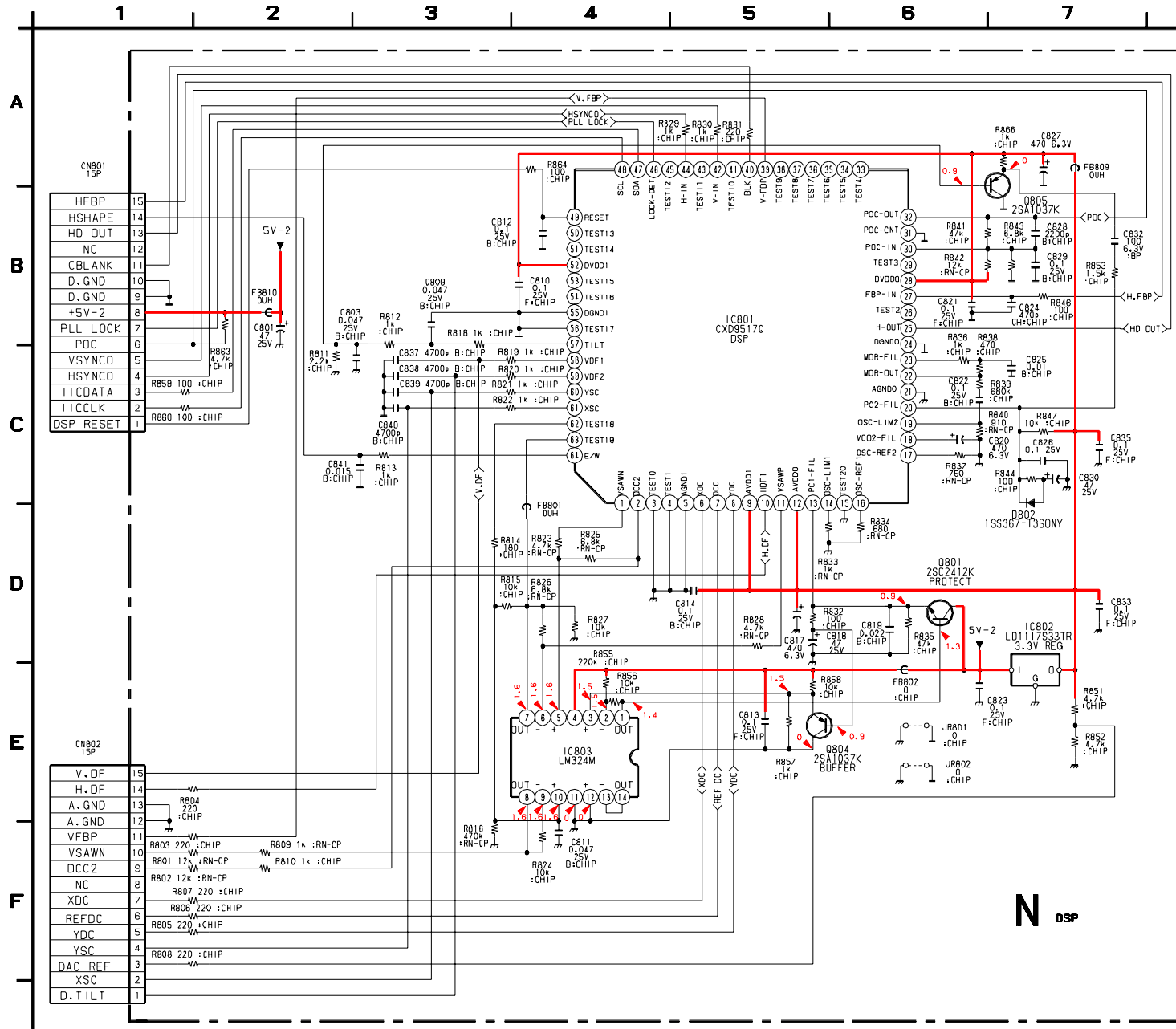
B-SV9195<MANUAL>-D..

D BOARD IC VOLTAGE LIST

IC1001	7	5.0	15	4.9	23	5.0	30	0.4	37	4.7	44	2.4	51	0
pin	volt													
1	0	8	5.0	16	4.0	24	4.7	31	5.0	38	0.7	45	52	5.0
2	1.6	9	5.0	17	3.4	25	0	32	0.44	39	5.0	46	53	0
3	2.5	10	0	18	5.0	26	0	33	0	40	5.0	47	54	5.0
4	3.3	11	5.0	19	0	27	0.37	34	4.8	41	0	48	55	5.0
5	0	12	0	20	0.3	28	3.1	35	5.0	42	3.5	49	56	0
6	0	13	0	21	5.0	29	0	36	4.5	43	0	50		
		14	0	22	0.1									

All Voltages are in V

N BOARD SCHEMATIC DIAGRAM



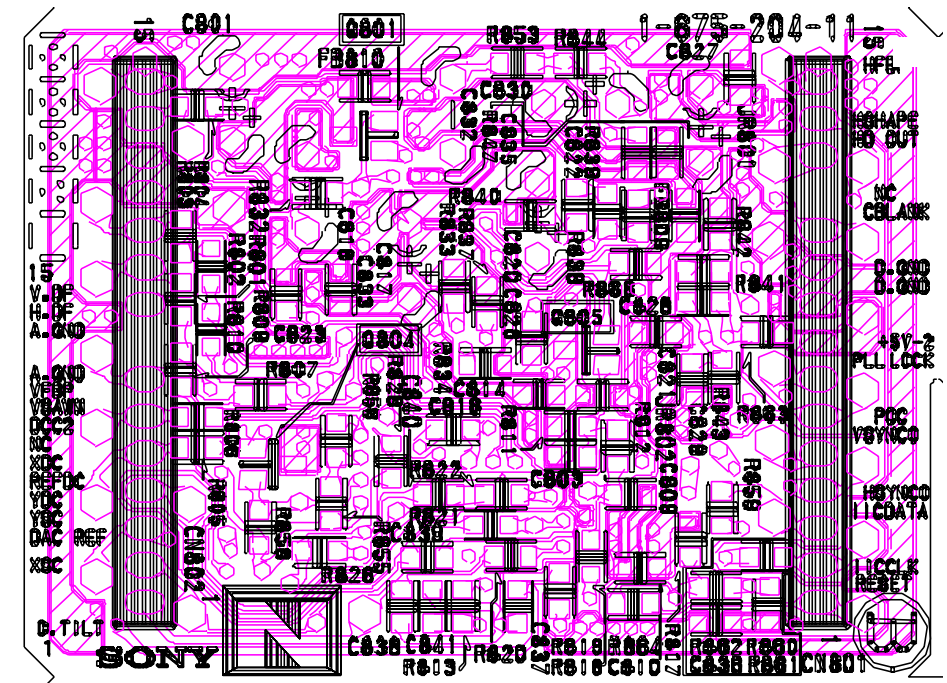
N BOARD IC VOLTAGE LIST

IC801		10	1.6	21	GND	32	NC	43	NC	54	NC
pin	volt	11	1.6	22	0	33	NC	44	0.4	55	0
1	1.6	12	3.3	23	0	34	NC	45	NC	56	0
2	1.6	13	0.9	24	GND	35	NC	46	5.0	57	1.6
3	0	14	0.9	25	1.6	36	NC	47	4.6	58	1.9
4	0	15	GND	26	NC	37	NC	48	4.4	59	1.6
5	1.6	16	0.9	27	0.3	38	NC	49	5.0	60	1.6
6	1.6	17	1.0	28	3.3	39	5.0	50	NC	61	1.6
7	1.6	18	1.0	29	NC	40	0.4	51	NC	62	1.6
8	1.6	19	1.0	30	1.5	41	NC	52	3.3	63	1.6
9	3.3	20	1.0	31	GND	42	0	53	NC	64	1.8

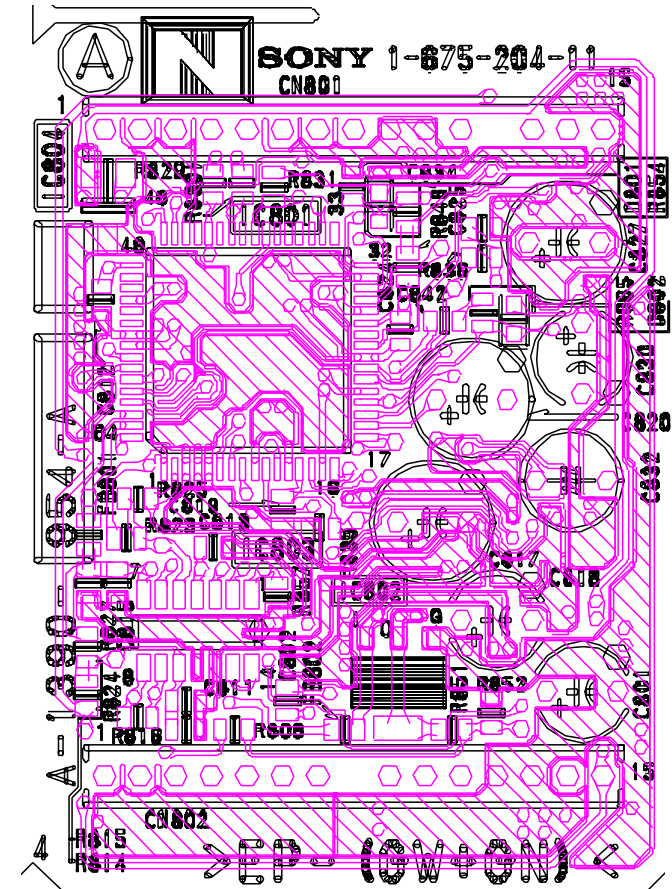
All Voltages are in V

N [DSP]

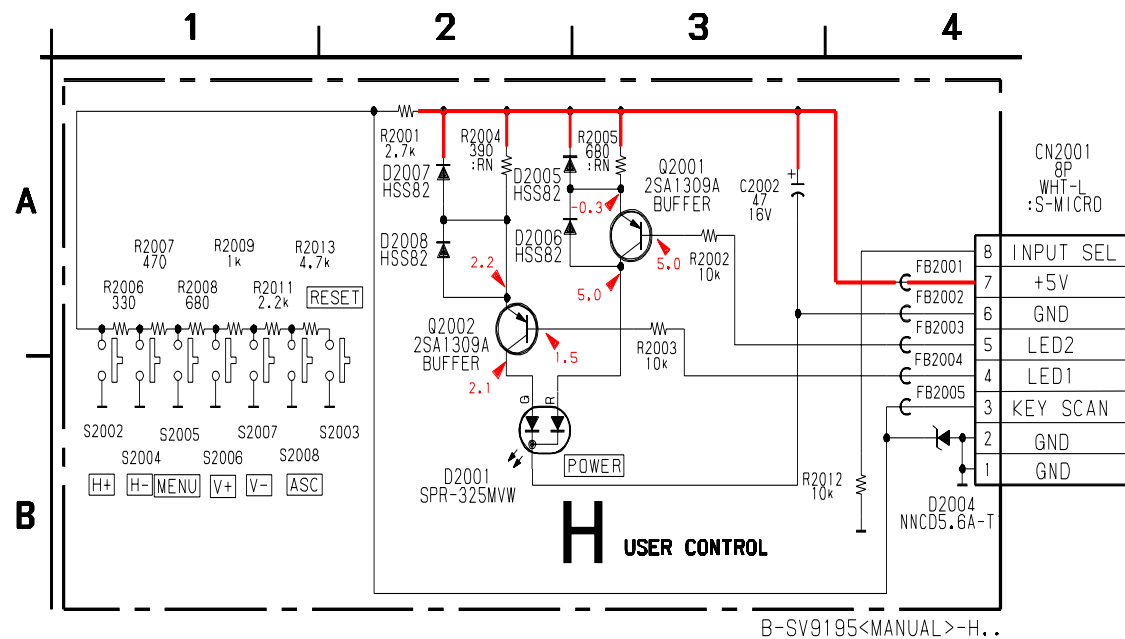
<CONDUCTOR SIDE>



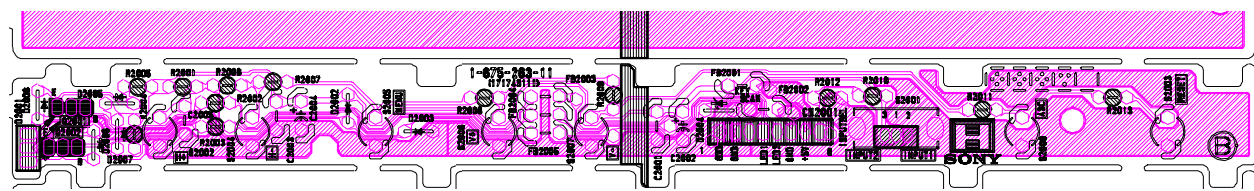
<COMPONENT SIDE>



H BOARD SCHEMATIC DIAGRAM



H [USER CONTROL]

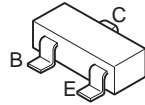


← **N** BOARD
H BOARD →

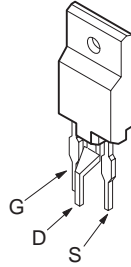
5-4. SEMICONDUCTORS

<p>BA05T</p>	<p>STK391-110</p> <p>MARKING SIDE VIEW</p>	<p>LA6500-FA LA6510</p>	<p>TLP621D4-Y</p>
<p>PST574CMT-T1</p>	<p>FMQ-G5FMS FMC-26UA YG911S2R</p> <p>CATHODE ANODE</p>	<p>D2L40-TA D4SB60L</p>	<p>2SC3421-Y 2SC1358-Y</p> <p>E C B</p>
<p>1SS119-25 MTZJ-39B MTZJ-6.2B RD15ESB3 RD18ESB2 RD3.0ESB2 RD3.6ESB2 RD4.7ESB2 RD10ESB2 RD16ESB3 RD5.1ESB2 RD5.6ESB2 RD8.2ESB2</p> <p>CATHODE ANODE</p>	<p>HZS9.1NB2 1SS367-T3 EGP10D HSS82 RGP02-17EL- UF4007G23 1N4148S ERC81-004 ERA91-02 RH-1A ERB38-06V1</p> <p>CATHODE ANODE</p>	<p>1PS226-115</p>	<p>RDS.65B DTZ-TT11-15B DTZ4-7C MA111</p> <p>ANODE CATHODE</p>
<p>2SC2362K-G 2SC3941A-Q(TA)</p> <p>E C B</p>	<p>DTC143ESA</p> <p>B C E</p>	<p>2SC3209LK</p> <p>E C B</p>	<p>2SA1049-GR 2SC2784-E 2SC2785-HFE</p> <p>LETTER SIDE E C B</p>

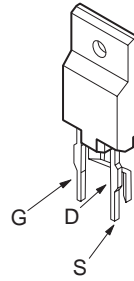
PDTC114EK
 2SA1036K-Q
 2SA1037K-T
 2SC2411K-CQ
 2SA1162-G
 2SC1623-L5L6



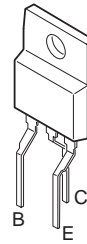
IRF19634G
 2SK2098-01MR-F119
 2SK3155-01



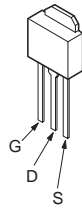
FS5KM-16A



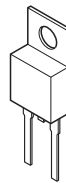
2SC5445



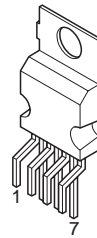
IRFU110A



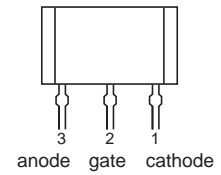
FMN-G12S



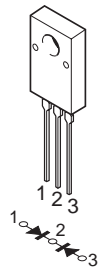
LA78040



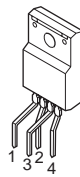
BT149G-412



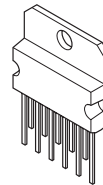
D10SC9M



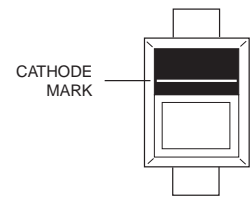
PQ12RD08S



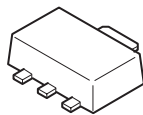
LM2402T



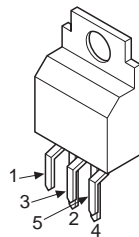
1SS376TE-17



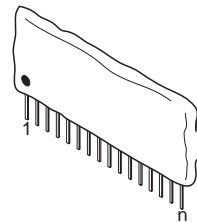
LD1117S33TR



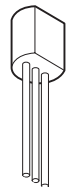
BA05ST-V5
 BA00AST-V5



H8D2972



TL1431CZ



SECTION 6 EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

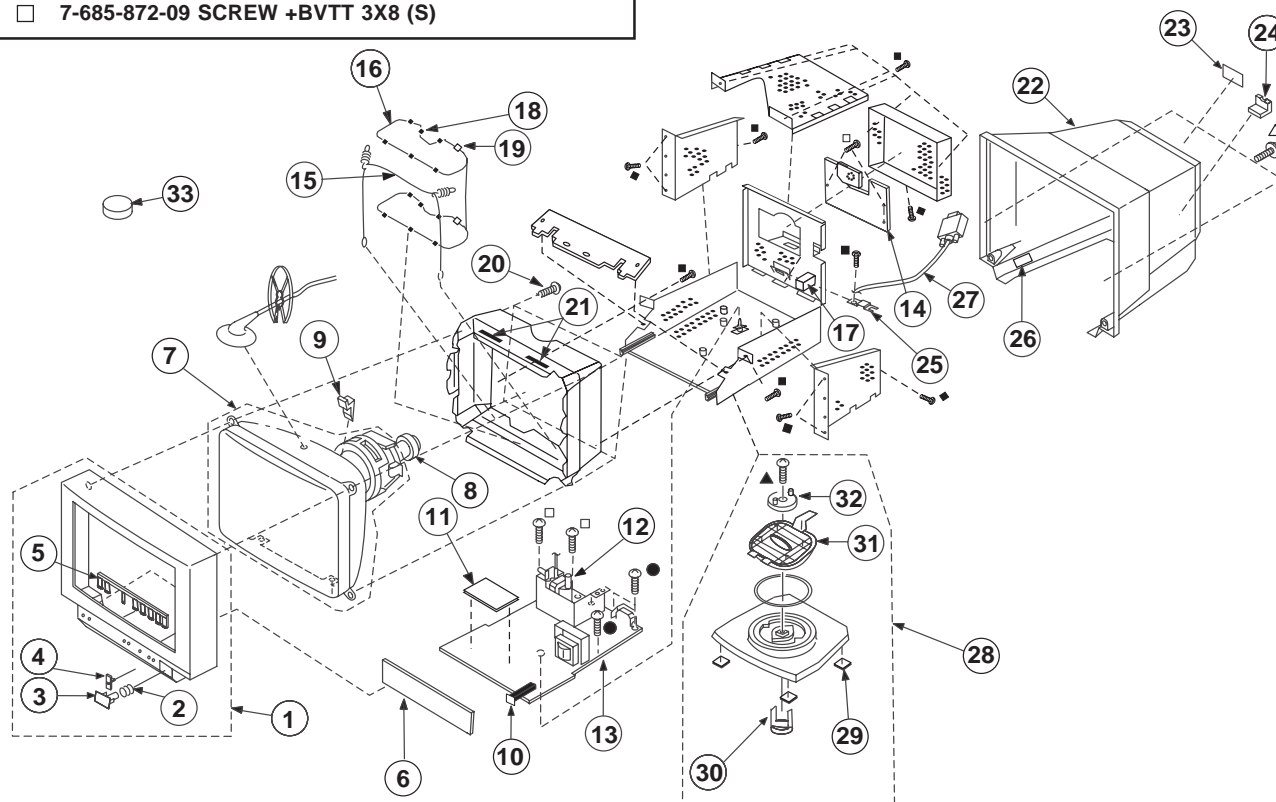
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un triangle et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1-1. CHASSIS (U/C MODEL ONLY)

- \blacktriangle 7-685-882-09 SCREW +BVTT 4X10 (S)
- \blacksquare 7-685-881-09 SCREW +BVTT 4X8 (S)
- \bullet 7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3
- \triangle 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
- \square 7-685-872-09 SCREW +BVTT 3X8 (S)



REF.NO.	PARTNO.	DESCRIPTION	REMARK
1 *	X-4037-107-1	BEZEL ASSY	2-5
2	3-653-339-21	SPRING, COMPRESSION	
3	4-072-464-01	BUTTON, POWER	
4	4-072-465-01	GUIDE, LIGHT	
5	4-072-463-01	BUTTON, MULTI	
6 *	A-1372-693-A	H MOUNTED BOARD	
7 \triangle	8-736-407-61	ITC ASSEMBLY (19TKC-R1)	
8 \triangle	1-452-912-61	NECK ASSEMBLY (NA-2914)	
9	4-040-897-01	SPACER, DY	
10	4-072-440-01	CAP, POWER BUTTON	
11 *	A-1390-957-A	N MOUNTED BOARD	
12 \triangle	1-453-317-11	FBT ASSY, NX-4700//X4E4	
13 *	A-1346-862-B	D COMPLETE BOARD	
14 *	A-1299-002-A	A COMPLETE BOARD	
15 *	4-061-573-01	SPRING, TENSION	
16 \triangle	1-419-285-11	COIL, DEGAUSSING	

REF.NO.	PARTNO.	DESCRIPTION	REMARK
17	1-251-382-31	AC INLET, 3P	
18	4-395-824-01	HOLDER, DEGAUSSING COIL	
19	4-041-021-11	HOLDER, DEGAUSE COIL	
20	4-365-808-01	SCREW (5), TAPPING	
21	4-067-370-01	CUSHION, 50X20	
22	4-072-443-01	CABINET	
23 *	4-072-442-01	LABEL, INFORMATION	
24 *	4-072-441-01	COVER, CABLE	
25 *	4-045-131-01	STOPPER, CABLE	
26	4-067-757-11	COVER, CONNECTOR	
27 *	1-790-283-22	CABLE ASSY (15PDSUB CONNECTOR)	
28	X-4036-841-1	BASE ASSY, STAND	29-32
29 *	4-060-533-01	CUSHION	
30	4-071-064-01	STOPPER, B	
31	4-071-065-11	SLIDER	
32	4-045-121-01	STOPPER (A), STAND	
33	1-452-032-00	MAGNET, DISC	

Note:

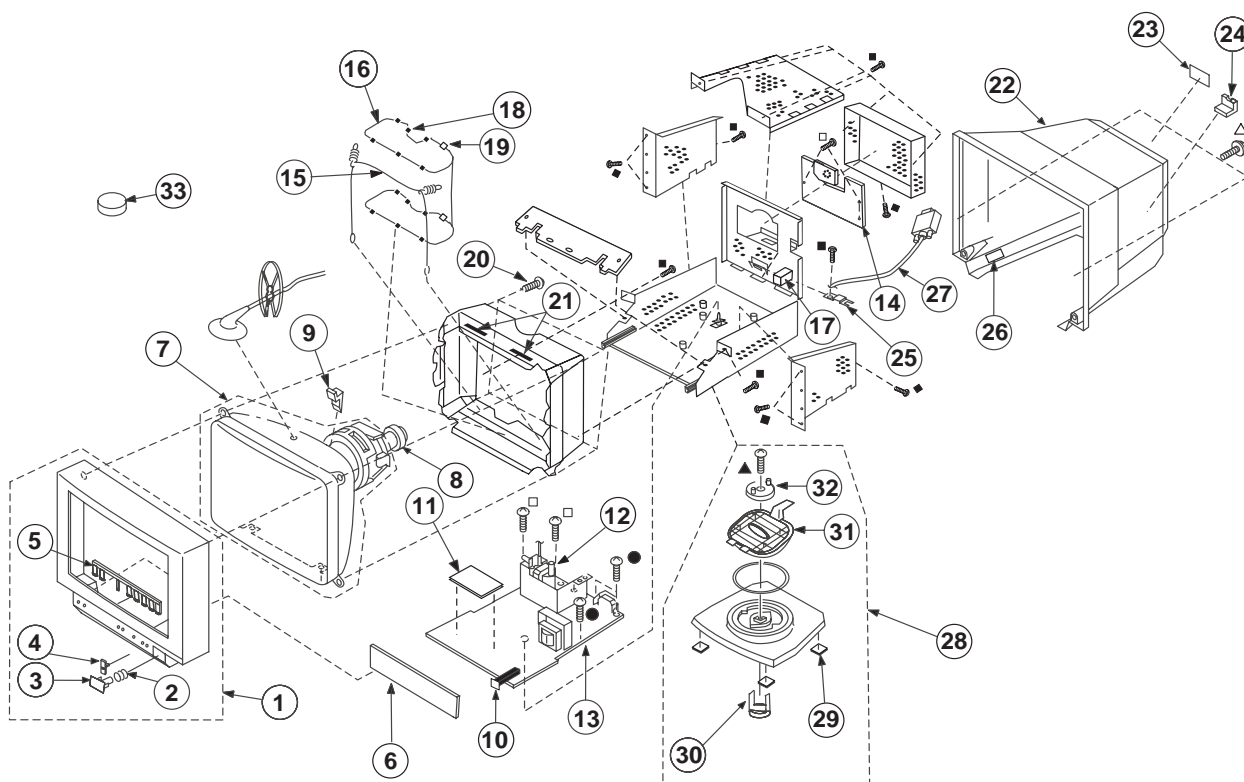
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1-2. CHASSIS (AEP MODEL ONLY)

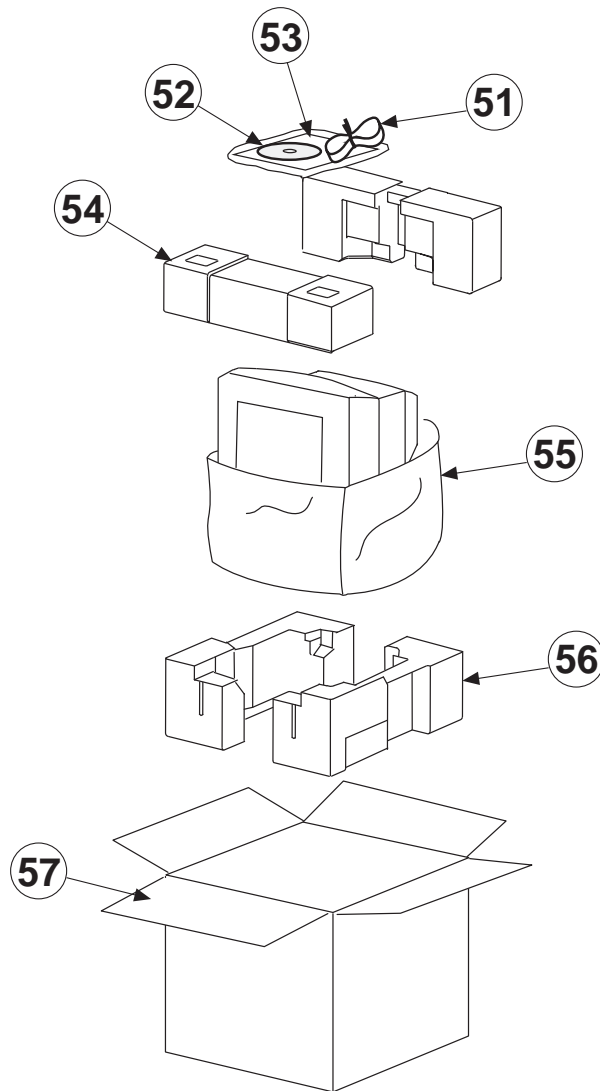
- ▲ 7-685-882-09 SCREW +BVTT 4X10 (S)
- 7-685-881-09 SCREW +BVTT 4X8 (S)
- 4-039-357-01 SCREW (3X8), (+) BV TAPPING
- △ 4-039-358-01 SCREW (4X16), (+) BV TAPPING
- 7-685-872-09 SCREW +BVTT 3X8 (S)



REF.NO.	PARTNO.	DESCRIPTION	REMARK
1 *	X-4037-299-1	BEZEL ASSY	2-5
2	3-653-339-21	SPRING, COMPRESSION	
3	4-071-964-01	BUTTON, POWER	
4	4-073-345-01	GUIDE, LIGHT	
5	4-073-344-01	BUTTON, MULTI	
6 *	A-1372-741-A	H MOUNTED BOARD	
7 \triangle	8-736-407-61	ITC ASSEMBLY (19TKC-R1)	
8 \triangle	1-452-912-61	NECK ASSEMBLY (NA-2914)	
9	4-040-897-01	SPACER, DY	
10	4-073-342-01	CAP, POWER	
11 *	A-1390-997-A	N BOARD, MOUNTED	
12 \triangle	1-453-317-11	FBT ASSY, NX-4700//X4E4	
13 *	A-1346-892-B	D BOARD, COMPLETE	
14 *	A-1299-082-A	A BOARD, COMPLETE	
15 *	4-047-316-01	SPRING, EXTENSION	
16 \triangle	1-419-285-11	COIL, DEGAUSSING	
17	1-251-382-31	INLET, AC 3P	

REF.NO.	PARTNO.	DESCRIPTION	REMARK
18	4-395-824-01	HOLDER, DEGAUSSING COIL	
19	4-041-021-02	HOLDER, DEGAUSE COIL	
20	4-203-648-01	SCREW (5), SELF TAPPING	
21	4-067-370-01	CUSHION, 50X20	
22	4-073-340-01	CABINET	
23 *	4-073-261-01	LABEL, INFORMATION	
24 *	4-073-341-01	COVER, CABLE	
25 *	4-045-131-11	STOPPER, CABLE	
26	4-063-246-21	COVER, CONNECTOR	
27 *	1-790-283-22	CABLE ASSY (15PDSUB CONNECTOR)	
28	X-4037-019-1	BASE ASSY, STAND	29-32
29 *	4-060-533-01	CUSHION	
30	4-072-648-01	STOPPER, B	
31	4-071-961-01	SLIDER	
32	4-045-121-01	STOPPER (A), STAND	
33	1-452-032-00	MAGNET, DISC	

6-2. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
51 Δ	1-790-662-11	CORD SET, POWER (U/C only)	
52 *	3-867-832-11	MANUAL, CD-ROM	
53 *	3-867-831-11	MANUAL, QUICK SETUP (U/C only)	
53 *	3-868-160-21	MANUAL, QUICK SETUP (AEP only)	
54 *	4-072-452-01	CUSHION ASSY, UPPER (U/C only)	
54 *	4-073-278-01	CUSHION ASSY, UPPER (AEP only)	
55 *	4-041-927-11	BAG, POLYETHYLENE (U/C only)	
55 *	4-060-490-01	BAG, POLYETHYLENE (AEP only)	
56 *	4-072-455-01	CUSHION ASSY, LOWER (U/C only)	
56 *	4-073-273-01	CUSHION ASSY, LOWER (AEP only)	
57 *	4-073-276-01	CARTON, INDIVIDUAL (AEP only)	
57 *	4-072-458-01	CARTON, INDIVIDUAL (U/C only)	

A

SECTION 7 ELECTRICAL PARTS LIST

Note:

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

The components identified by **☒** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

Note:

Les composants identifiés par un trame et une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked with an asterisk " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
A				C045	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C046	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C047	1-165-319-11	CERAMIC CHIP	0.1μF 50V
				C053	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C054	1-137-528-11	MYLAR	0.1μF 10% 250V
				C056	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
				C057	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
				C059	1-164-346-11	CERAMIC CHIP	1μF 16V
				C060	1-104-664-11	ELECT	47μF 20% 25V
				C061	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C063	1-126-964-11	ELECT	10μF 20% 50V
				C066	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
				C070	1-165-319-11	CERAMIC CHIP	0.1μF 50V
				C092	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C093	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C094	1-163-229-11	CERAMIC CHIP	12pF 5% 50V
				C095	1-126-935-11	ELECT	470μF 20% 16V
				C096	1-163-229-11	CERAMIC CHIP	12pF 5% 50V
				C104	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C105	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C106	1-117-450-11	MYLAR	0.47μF 10% 250V
				C108	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C109	1-104-664-11	ELECT	47μF 20% 25V
				C111	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V
				C121	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C122	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C123	1-137-528-11	MYLAR	0.1μF 10% 250V
				C130	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V
				C152	1-126-933-11	ELECT	100μF 20% 16V
				C204	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C205	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C206	1-117-450-11	MYLAR	0.47μF 10% 250V
				C208	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C211	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V
				C221	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C222	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C223	1-137-528-11	MYLAR	0.1μF 10% 250V
				C230	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V
				C252	1-126-933-11	ELECT	100μF 20% 16V
* A-1299-002-A	A BOARD, COMPLETE (FOR U/C ONLY)						
* A-1299-082-A	A BOARD, COMPLETE (FOR AEP ONLY)						
4-382-854-01	SCREW (M3X8), P, SW (+)						
CAPACITOR							
C001	1-162-318-11	CERAMIC	0.001μF 10% 500V				
C002	1-162-318-11	CERAMIC	0.001μF 10% 500V				
C003	1-163-259-91	CERAMIC CHIP	220pF 5% 50V				
C005	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C007	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C009	1-126-964-11	ELECT	10μF 20% 50V				
C010	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C011	1-106-220-00	MYLAR	0.1μF 10% 100V				
C012	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C013	1-107-888-11	ELECT	47μF 20% 25V				
C014	1-107-932-11	ELECT	47μF 20% 100V				
C015	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C016	1-126-935-11	ELECT	470μF 20% 16V				
C018	1-107-652-11	ELECT	10μF 20% 250V				
C020	1-126-935-11	ELECT	470μF 20% 16V				
C021	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C022	1-126-934-11	ELECT	220μF 20% 10V				
C027	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C028	1-104-664-11	ELECT	47μF 20% 25V				
C029	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C031	1-162-318-11	CERAMIC	0.001μF 10% 500V				
C032	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C033	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C035	1-162-134-11	CERAMIC	470pF 10% 2KV				
C037	1-101-006-00	CERAMIC	0.047μF 50V				
C038	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V				
C039	1-165-319-11	CERAMIC CHIP	0.1μF 50V				
C041	1-162-318-11	CERAMIC	0.001μF 10% 500V				
C042	1-165-319-11	CERAMIC CHIP	0.1μF 50V				
C043	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CHIP CONDUCTOR				R007	1-216-025-91	RES, CHIP	100 5% 1/10W
JR002	1-216-295-91	SHORT	0	R009	1-216-073-00	RES, CHIP	10K 5% 1/10W
JR004	1-216-296-91	SHORT	0	R011	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
JR005	1-216-295-91	SHORT	0	R012	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
JR006	1-216-296-91	SHORT	0	R013	1-216-025-91	RES, CHIP	100 5% 1/10W
JR007	1-216-296-91	SHORT	0	R014	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
JR008	1-216-296-91	SHORT	0	R017	1-216-025-91	RES, CHIP	100 5% 1/10W
JR010	1-216-295-91	SHORT	0	R018	1-216-025-91	RES, CHIP	100 5% 1/10W
JR011	1-216-295-91	SHORT	0	R020	1-216-017-91	RES, CHIP	47 5% 1/10W
JR012	1-216-296-91	SHORT	0	R021	1-216-017-91	RES, CHIP	47 5% 1/10W
JR013	1-216-295-91	SHORT	0	R022	1-216-025-91	RES, CHIP	100 5% 1/10W
JR014	1-216-295-91	SHORT	0	R023	1-216-049-91	RES, CHIP	1K 5% 1/10W
JR015	1-216-295-91	SHORT	0	R024	1-216-061-00	RES, CHIP	3.3K 5% 1/10W
JR016	1-216-296-91	SHORT	0	R025	1-216-061-00	RES, CHIP	3.3K 5% 1/10W
JR017	1-216-296-91	SHORT	0	R029	1-216-097-91	RES, CHIP	100K 5% 1/10W
JR020	1-216-296-91	SHORT	0	R030	1-216-025-91	RES, CHIP	100 5% 1/10W
JR021	1-216-296-91	SHORT	0	R031	1-216-049-91	RES, CHIP	1K 5% 1/10W
JR022	1-216-296-91	SHORT	0	R032	1-216-025-91	RES, CHIP	100 5% 1/10W
JR023	1-216-296-91	SHORT	0	R033	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
JR024	1-216-296-91	SHORT	0	R034	1-216-295-91	SHORT	0
JR025	1-216-295-91	SHORT	0	R040	1-216-129-00	RES, CHIP	2.2M 5% 1/10W
JR026	1-216-295-91	SHORT	0	R044	1-216-073-00	RES, CHIP	10K 5% 1/10W
JR027	1-216-295-91	SHORT	0	R045	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
JR028	1-216-295-91	SHORT	0	R047	1-216-073-00	RES, CHIP	10K 5% 1/10W
JR029	1-216-296-91	SHORT	0	R048	1-219-398-51	METAL	2.2M 5% 1W
JR030	1-216-295-91	SHORT	0	R049	1-216-093-91	RES, CHIP	68K 5% 1/10W
JR031	1-216-296-91	SHORT	0	R050	1-216-121-91	RES, CHIP	1M 5% 1/10W
JR032	1-216-296-91	SHORT	0	R053	1-219-621-91	METAL	22M 10% 1/4W
JR033	1-216-296-91	SHORT	0	R060	1-414-231-22	INDUCTOR CHIP	0μH
COIL				R064	1-219-749-91	CARBON	10K 5% 1/2W
L004	1-412-529-11	INDUCTOR	22μH	R078	1-216-089-91	RES, CHIP	47K 5% 1/10W
L005	1-412-537-31	INDUCTOR	100μH	R079	1-216-089-91	RES, CHIP	47K 5% 1/10W
L006	1-412-541-41	INDUCTOR	220μH	R080	1-216-049-91	RES, CHIP	1K 5% 1/10W
L007	1-408-615-31	INDUCTOR	100μH	R081	1-216-049-91	RES, CHIP	1K 5% 1/10W
TRANSISTOR				R082	1-216-089-91	RES, CHIP	47K 5% 1/10W
Q001	8-729-032-61	TRANSISTOR 2SC5022-02		R095	1-216-121-91	RES, CHIP	1M 5% 1/10W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R096	1-216-033-00	RES, CHIP	220 5% 1/10W
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R097	1-218-179-11	RES, CHIP	10M 5% 1/10W
Q006	8-729-216-22	TRANSISTOR 2SA1162-G		R098	1-218-179-11	RES, CHIP	10M 5% 1/10W
RESISTOR				R099	1-208-291-11	RES, CHIP	4.7M 5% 1/10W
R004	1-216-037-00	RES, CHIP	330 5% 1/10W	R104	1-216-009-91	RES, CHIP	22 5% 1/10W
R005	1-216-041-00	RES, CHIP	470 5% 1/10W	R106	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R006	1-216-025-91	RES, CHIP	100 5% 1/10W	R107	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
				R108	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R109	1-216-041-00	RES, CHIP	470 5% 1/10W
				R110	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
				R111	1-249-403-11	CARBON	68 5% 1/4W F
				R115	1-216-107-00	RES, CHIP	270K 5% 1/10W
				R117	1-216-025-91	RES, CHIP	100 5% 1/10W
				R118	1-216-019-00	RES, CHIP	56 5% 1/10W



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R119	1-216-113-00	RES, CHIP	470K 5% 1/10W
R120	1-216-113-00	RES, CHIP	470K 5% 1/10W
R122	1-216-113-00	RES, CHIP	470K 5% 1/10W
R123	1-216-037-00	RES, CHIP	330 5% 1/10W
R130	1-216-025-91	RES, CHIP	100 5% 1/10W
R133	1-216-295-91	SHORT	0
R151	1-219-742-11	CARBON	47 5% 1/2W
R161	1-215-394-00	METAL	75 1% 1/4W
R204	1-216-009-91	RES, CHIP	22 5% 1/10W
R206	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R207	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R208	1-216-049-91	RES, CHIP	1K 5% 1/10W
R209	1-216-041-00	RES, CHIP	470 5% 1/10W
R210	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R211	1-249-403-11	CARBON	68 5% 1/4W F
R215	1-216-107-00	RES, CHIP	270K 5% 1/10W
R217	1-216-025-91	RES, CHIP	100 5% 1/10W
R218	1-216-019-00	RES, CHIP	56 5% 1/10W
R219	1-216-113-00	RES, CHIP	470K 5% 1/10W
R220	1-216-113-00	RES, CHIP	470K 5% 1/10W
R222	1-216-113-00	RES, CHIP	470K 5% 1/10W
R223	1-216-037-00	RES, CHIP	330 5% 1/10W
R230	1-216-025-91	RES, CHIP	100 5% 1/10W
R233	1-216-295-91	SHORT	0
R251	1-219-742-11	CARBON	47 5% 1/2W
R261	1-215-394-00	METAL	75 1% 1/4W
R304	1-216-009-91	RES, CHIP	22 5% 1/10W
R306	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R307	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R308	1-216-049-91	RES, CHIP	1K 5% 1/10W
R309	1-216-041-00	RES, CHIP	470 5% 1/10W
R310	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R311	1-249-403-11	CARBON	68 5% 1/4W F
R315	1-216-107-00	RES, CHIP	270K 5% 1/10W
R317	1-216-025-91	RES, CHIP	100 5% 1/10W
R318	1-216-019-00	RES, CHIP	56 5% 1/10W
R319	1-216-113-00	RES, CHIP	470K 5% 1/10W
R320	1-216-113-00	RES, CHIP	470K 5% 1/10W
R322	1-216-113-00	RES, CHIP	470K 5% 1/10W
R323	1-216-037-00	RES, CHIP	330 5% 1/10W
R330	1-216-025-91	RES, CHIP	100 5% 1/10W
R333	1-216-295-91	SHORT	0
R351	1-219-742-11	CARBON	47 5% 1/2W
R361	1-215-394-00	METAL	75 1% 1/4W

SPARK GAP

SG001 \triangle	1-519-422-11	GAP, SPARK
SG002 \triangle	1-519-421-11	GAP, DISCHARGE
SG101 \triangle	1-519-421-11	GAP, DISCHARGE
SG201 \triangle	1-519-421-11	GAP, DISCHARGE
SG301 \triangle	1-519-421-11	GAP, DISCHARGE

REF.NO.	PART NO.	DESCRIPTION	REMARK
CRYSTAL			
X001	1-781-472-21	VIBRATOR, CERAMIC	
D			
*	A-1346-862-B D BOARD, COMPLETE (FOR U/C ONLY)		
*	A-1346-892-B D BOARD, COMPLETE (FOR AEP ONLY)		
	1-533-223-11	CLIP, FUSE	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	4-382-854-21	SCREW (M3X14), P, SW (+)	
CAPACITOR			
C401	1-128-730-91	ELECT	470 μ F 20% 25V
C402	1-106-228-00	MYLAR	0.22 μ F 10% 100V
C403	1-128-749-91	ELECT	220 μ F 20% 50V
C404	1-128-730-91	ELECT	470 μ F 20% 25V
C406	1-137-366-11	MYLAR	0.0022 μ F 5% 50V
C407	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V
C409	1-126-968-11	ELECT	100 μ F 20% 50V
C500	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C501	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C503	1-137-370-11	MYLAR	0.01 μ F 5% 50V
C504	1-137-368-11	MYLAR	0.0047 μ F 5% 50V
C505	1-128-729-91	ELECT	330 μ F 20% 25V
C506	1-127-810-51	CAP, ELECT	22 μ F 20% 250V
C507	1-136-187-11	MYLAR	0.047 μ F 10% 250V
C508	1-117-959-11	FILM	4700pF 3% 1.8KV
C509	1-107-444-11	CERAMIC	100pF 5% 2KV
C510	1-136-684-51	MYLAR	0.0022 μ F 10% 100V
C511	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C512	1-102-114-00	CERAMIC	470pF 10% 50V
C513	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C514	1-137-368-11	MYLAR	0.0047 μ F 5% 50V
C515	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C516	1-126-382-11	ELECT	100 μ F 20% 16V
C517	1-163-263-11	CERAMIC CHIP	330pF 5% 50V
C518	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C520	1-163-024-00	CERAMIC CHIP	0.018 μ F 10% 50V
C521	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C522	1-126-965-11	ELECT	22 μ F 20% 50V
C523	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C524	1-126-382-11	ELECT	100 μ F 20% 16V
C525	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C527	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V
C528	1-130-489-00	MYLAR	0.033 μ F 5% 50V
C529	1-137-370-11	MYLAR	0.01 μ F 5% 50V
C530	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C531	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C625	1-115-789-11	ELECT	0.001F 20% 25V
C532	1-107-906-11	ELECT	10 μ F 20% 50V	C626	1-115-791-11	ELECT	0.0018F 20% 25V
C533	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V	C627	1-115-789-11	ELECT	0.001F 20% 25V
C534	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C628	1-107-890-91	ELECT	2200 μ F 20% 25V
C535	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C629	1-126-935-11	ELECT	470 μ F 20% 16V
C536	1-107-665-11	ELECT	0.47 μ F 20% 400V	C630	1-126-935-11	ELECT	470 μ F 20% 16V
C537	1-107-770-11	FILM	0.16 μ F 3% 400V	C631	1-128-526-11	ELECT	100 μ F 20% 25V
C538	1-107-651-11	ELECT	4.7 μ F 20% 250V	C632	1-104-653-11	ELECT	220 μ F 20% 16V
C539	1-117-673-11	FILM	1.5 μ F 5% 250V	C633	1-126-934-11	ELECT	220 μ F 20% 10V
C540	1-107-888-11	ELECT	47 μ F 20% 25V	C634	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C541	1-109-844-11	FILM	0.68 μ F 5% 250V	C635	1-126-965-11	ELECT	22 μ F 20% 50V
C542	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C636 \triangle	1-113-900-11	CERAMIC	470pF 10% 250V
C543	1-117-665-11	FILM	0.33 μ F 5% 250V	C637 \triangle	1-113-900-11	CERAMIC	470pF 10% 250V
C544	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C638 \triangle	1-104-708-11	MYLAR	0.47 μ F 20% 250V
C545	1-117-661-21	FILM	0.15 μ F 5% 250V	C639 \triangle	1-104-708-11	MYLAR	0.47 μ F 20% 250V
C546	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C640	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C547	1-119-860-11	FILM	0.082 μ F 5% 250V	C641	1-163-007-11	CERAMIC CHIP	680pF 10% 50V
C548	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C642	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V
C549	1-117-953-91	FILM	0.033 μ F 5% 400V	C644	1-136-187-11	MYLAR	0.047 μ F 10% 250V
C550	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C645	1-126-934-11	ELECT	220 μ F 20% 16V
C551	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C646	1-107-882-91	ELECT	100 μ F 20% 16V
C553	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C647	1-107-882-91	ELECT	100 μ F 20% 16V
C554	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C648	1-107-906-11	ELECT	10 μ F 20% 50V
C555	1-137-194-81	MYLAR	0.47 μ F 5% 50V	C650	1-162-117-00	CERAMIC	100pF 10% 500V
C556	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C653	1-126-942-61	ELECT	1000 μ F 20% 25V
C557	1-126-935-11	ELECT	470 μ F 20% 16V	C654	1-104-666-11	ELECT	220 μ F 20% 25V
C558	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C656	1-104-664-11	ELECT	47 μ F 20% 25V
C559	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C657	1-162-318-11	CERAMIC	0.001 μ F 10% 500V
C560	1-109-982-11	CERAMIC CHIP	1 μ F 10% 10V	C658	1-162-815-11	CERAMIC	47pF 5% 500V
C562	1-163-001-11	CERAMIC CHIP	220pF 10% 50V	C659	1-136-177-00	MYLAR	1 μ F 5% 50V
C563	1-113-340-11	ELECT	47 μ F 20% 25V	C701	1-163-003-11	CERAMIC CHIP	330pF 10% 50V
C564	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C703	1-163-003-11	CERAMIC CHIP	330pF 10% 50V
C565	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C704	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C608	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C705	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C609 \triangle	1-117-703-11	CERAMIC	0.0047 μ F 20% 250V	C706	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C610	1-117-769-91	CERAMIC	680pF 10% 2KV	C707	1-126-942-61	ELECT	1000 μ F 20% 25V
C611	1-113-608-11	ELECT(BLOCK)	470 μ F 20% 400V	C708	1-126-942-61	ELECT	1000 μ F 20% 25V
C612	1-117-953-91	FILM	0.033 μ F 5% 400V	C711	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
C613	1-104-664-11	ELECT	47 μ F 20% 25V	C712	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
C614	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C713	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C615	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V	C714	1-126-960-11	ELECT	1 μ F 20% 50V
C616	1-102-228-00	CERAMIC	470pF 10% 500V	C716	1-136-177-00	MYLAR	1 μ F 5% 50V
C617	1-117-769-91	CERAMIC	680pF 10% 2KV	C717	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C618	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C718	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C619	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V	C719	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C620	1-128-551-11	ELECT	22 μ F 20% 25V	C720	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C621	1-131-723-21	ELECT(BLOCK)	220 μ F 20% 250V	C721	1-128-562-11	ELECT	47 μ F 20% 100V
C622	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V	C723	1-128-561-91	ELECT	33 μ F 20% 100V
C623	1-107-933-11	ELECT	100 μ F 20% 100V	C724	1-162-134-11	CERAMIC	470pF 10% 2KV
C624	1-104-666-11	ELECT	220 μ F 20% 25V	C725	1-126-965-11	ELECT	22 μ F 20% 50V



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C726	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1056	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C727	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1057	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C728	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C1061	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C729	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C1062	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C730	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C1063	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C731	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C1064	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C732	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	CONNECTOR			
C901	1-104-665-11	ELECT	100 μ F 20% 25V	CN501 *	1-580-798-11	CONNECTOR PIN (DY) 6P	
C902	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	CN600 Δ	1-691-960-11	PIN, CONNECTOR (PWB) 3P	
C903	1-107-904-11	ELECT	3.3 μ F 20% 50V	CN601 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C904	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	CN603 *	1-564-510-11	PLUG, CONNECTOR 7P	
C905	1-163-133-00	CERAMIC CHIP	470pF 5% 50V	CN701 *	1-564-511-11	PLUG, CONNECTOR 8P	
C906	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	CN702 *	1-564-506-11	PLUG, CONNECTOR 3P	
C907	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	CN901	1-695-915-11	TAB (CONTACT)	
C908	1-164-505-11	CERAMIC CHIP	2.2 μ F 16V	CN1001*	1-508-879-11	BASE POST	
C909	1-104-665-11	ELECT	100 μ F 20% 25V	CN1002*	1-564-511-11	PLUG, CONNECTOR 8P	
C910	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	CN1003*	1-564-515-11	PLUG, CONNECTOR 12P	
C911	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	CN1004*	1-564-509-11	PLUG, CONNECTOR 6P	
C912	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	DIODE			
C913	1-119-748-11	ELECT	33 μ F 20% 400V	D401	8-719-979-58	DIODE EGP10D	
C914	1-136-187-11	MYLAR	0.047 μ F 10% 250V	D402	8-719-158-15	DIODE RD5.6SB	
C915	1-137-367-11	MYLAR	0.0033 μ F 5% 50V	D405	8-719-061-42	DIODE 1N4148S-26TP	
C916	1-117-665-11	FILM	0.33 μ F 5% 250V	D501	8-719-110-47	DIODE RD18ESB	
C917	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	D502	8-719-981-00	DIODE ERC81-004	
C918	1-117-626-11	FILM	2000pF 3% 1.2KV	D503	8-719-110-47	DIODE RD18ESB	
C919	1-115-349-51	CERAMIC	0.01 μ F 2KV	D504	8-719-061-21	DIODE FMQ-G5FMS	
C920	1-115-349-51	CERAMIC	0.01 μ F 2KV	D505	8-719-052-86	DIODE D2L40-TA	
C921	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	D506	8-719-976-96	DIODE DTZ4.7C	
C922	1-126-963-11	ELECT	4.7 μ F 20% 50V	D507	8-719-073-01	DIODE MA111-(K8).S0	
C923	1-126-964-11	ELECT	10 μ F 20% 50V	D508	8-719-073-01	DIODE MA111-(K8).S0	
C924	1-104-665-11	ELECT	100 μ F 20% 25V	D509	8-719-073-01	DIODE MA111-(K8).S0	
C925	1-137-370-11	MYLAR	0.01 μ F 5% 50V	D510	8-719-073-01	DIODE MA111-(K8).S0	
C926	1-106-220-00	MYLAR	0.1 μ F 10% 100V	D511	8-719-073-01	DIODE MA111-(K8).S0	
C927	1-106-351-00	MYLAR	0.0022 μ F 20% 200V	D512	8-719-073-01	DIODE MA111-(K8).S0	
C929	1-126-965-11	ELECT	22 μ F 20% 50V	D514	8-719-109-81	DIODE RD4.7ESB2	
C930	1-137-370-11	MYLAR	0.01 μ F 5% 50V	D515	8-719-073-01	DIODE MA111-(K8).S0	
C931	1-164-005-11	CERAMIC CHIP	0.47 μ F 25V	D516	8-719-951-30	DIODE ERA91-02	
C1006	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	D517	8-719-978-65	DIODE DTZ-TT11-15B	
C1013	1-126-926-11	ELECT	1000 μ F 20% 10V	D518	8-719-110-17	DIODE RD10ESB2	
C1024	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	D608	8-719-061-42	DIODE 1N4148S-26TP	
C1025	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	D609	8-719-053-19	DIODE UF4007G23	
C1026	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	D610	8-719-921-40	DIODE MTZJ-4.7C	
C1030	1-164-222-11	CERAMIC CHIP	0.22 μ F 25V	D611	8-719-053-19	DIODE UF4007G23	
C1031	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	D612	8-719-110-49	DIODE RD18ESB2	
C1036	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	D613	8-719-300-76	DIODE RH-1A	
C1037	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	D614	8-719-067-68	DIODE FMC-26UA	
C1038	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V				
C1042	1-163-243-11	CERAMIC CHIP	47pF 5% 50V				
C1046	1-163-243-11	CERAMIC CHIP	47pF 5% 50V				
C1047	1-163-243-11	CERAMIC CHIP	47pF 5% 50V				
C1050	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D615	8-719-053-19	DIODE UF4007G23		D1024	8-719-073-01	DIODE MA111-(K8).S0	
D616	8-719-076-20	DIODE BT149G-412-OT359		D1025	8-719-158-15	DIODE RD5.6SB	
D617	8-719-061-42	DIODE 1N4148S-26TP		FUSE			
D618	8-719-069-63	DIODE ERB38-06V1		F601 \triangle 1-576-233-11 FUSE (H.B.C.)			
D619	8-719-058-38	DIODE FMN-G12S		FERRITE BEAD			
D620	8-719-510-41	DIODE D10SC9M		FB501	1-412-911-11	FERRITE	0 μ H
D621	8-719-979-58	DIODE EGP10D		FB502	1-543-960-22	FERRITE	0 μ H
D622	8-719-074-79	DIODE YG911S2R		FB602 \triangle	1-410-397-21	FERRITE	1.1 μ H
D623	8-719-979-58	DIODE EGP10D		FB901	1-412-911-11	FERRITE	0 μ H
D624	8-719-979-58	DIODE EGP10D		FB1000	1-216-295-91	SHORT	0
D625 \triangle	8-719-510-53	DIODE D4SB60L		FB1001	1-216-025-91	RES, CHIP	100 5% 1/10W
D626	8-719-061-42	DIODE 1N4148S-26TP		FB1002	1-216-025-91	RES, CHIP	100 5% 1/10W
D627	8-719-110-08	DIODE RD8.2ESB2		FB1004	1-216-295-91	SHORT	0
D628	8-719-061-42	DIODE 1N4148S-26TP		IC			
D629	8-719-073-01	DIODE MA111-(K8).S0		IC401	8-759-593-28	IC LA78040	
D630	8-719-110-41	DIODE RD15ESB2		IC501	8-759-585-82	IC BA9759F-E2	
D701	8-719-061-42	DIODE 1N4148S-26TP		IC502	8-759-803-42	IC LA6500-FA	
D702	8-719-061-42	DIODE 1N4148S-26TP		IC503	8-759-100-96	IC UPC4558G2	
D703	8-719-061-42	DIODE 1N4148S-26TP		IC603 \triangle	8-759-594-75	IC TEA1504/N2	
D705	8-719-158-49	DIODE RD12SB2		IC604	8-759-637-83	IC PQ12RD8S	
D901	8-719-073-01	DIODE MA111-(K8).S0		IC605	8-759-496-15	IC BA05ST-V5	
D903	8-719-073-01	DIODE MA111-(K8).S0		IC607 \triangle	8-749-016-35	IC TLP621D4-Y-LF2T	
D904	8-719-073-01	DIODE MA111-(K8).S0		IC608	8-759-586-17	IC TL1431CZ-AP	
D906	8-719-978-65	DIODE DTZ-TT11-15B		IC609	8-759-450-47	IC BA05T	
D907	8-719-052-86	DIODE D2L40-TA		IC610	8-759-592-79	IC BA00AST-V5	
D908	8-719-073-01	DIODE MA111-(K8).S0		IC701	8-759-822-38	IC LA6510	
D909	8-719-978-65	DIODE DTZ-TT11-15B		IC702	8-749-015-00	IC STK391-110	
D910	8-719-028-72	DIODE RGP02-17EL-6433		IC703	8-759-803-42	IC LA6500-FA	
D911	8-719-028-72	DIODE RGP02-17EL-6433		IC901 \triangle	8-759-585-81	IC BA9758FS-E2	
D912	8-719-110-46	DIODE RD16ESB3		IC1001	8-759-639-51	IC CXD9523S/JCJ	
D913	8-719-110-46	DIODE RD16ESB3		IC1003	8-759-420-77	IC PST574CMT-T1	
D914	8-719-970-83	DIODE HSS82		IC1005	8-759-641-86	IC BR24C16F-E2	
D915	8-719-109-85	DIODE RD5.1ESB2		CHIP CONDUCTOR			
D916	8-719-158-49	DIODE RD12SB2		JR43	1-216-296-91	SHORT	0
D917	8-719-929-15	DIODE HZS9.1NB2		JR45	1-216-295-91	SHORT	0
D920	8-719-158-15	DIODE RD5.6SB		JR002	1-216-296-91	SHORT	0
D921	8-719-158-15	DIODE RD5.6SB		JR004	1-216-296-91	SHORT	0
D1001	8-719-158-15	DIODE RD5.6SB		JR005	1-216-295-91	SHORT	0
D1003	1-218-772-11	METAL CHIP	680K 0.50% 1/10W	JR006	1-216-296-91	SHORT	0
D1007	8-719-158-15	DIODE RD5.6SB		JR007	1-216-295-91	SHORT	0
D1008	8-719-158-15	DIODE RD5.6SB		JR008	1-216-296-91	SHORT	0
D1009	8-719-158-15	DIODE RD5.6SB		JR009	1-216-296-91	SHORT	0
D1010	8-719-158-15	DIODE RD5.6SB		JR010	1-216-296-91	SHORT	0
D1011	8-719-158-15	DIODE RD5.6SB					
D1012	8-719-158-15	DIODE RD5.6SB					
D1013	8-719-158-15	DIODE RD5.6SB					
D1014	8-719-158-15	DIODE RD5.6SB					
D1018	8-719-073-01	DIODE MA111-(K8).S0					
D1021	8-719-062-51	DIODE 1PS226-115					
D1022	8-719-062-51	DIODE 1PS226-115					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R406	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R545	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R407	1-249-397-11	CARBON	22 5% 1/4W F	R546	1-215-909-11	METAL OXIDE	47 5% 3W F
R409	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R547	1-215-387-00	METAL	39 1% 1/4W
R410	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R548	1-260-318-71	CARBON	150 5% 1/2W
R416	1-216-073-00	RES, CHIP	10K 5% 1/10W	R549	1-260-314-11	CARBON	68 5% 1/2W
R417	1-216-113-00	RES, CHIP	470K 5% 1/10W	R550	1-247-903-00	CARBON	1M 5% 1/4W
R418	1-216-105-91	RES, CHIP	220K 5% 1/10W	R552	1-249-437-11	CARBON	47K 5% 1/4W
R501	1-216-049-91	RES, CHIP	1K 5% 1/10W	R553	1-249-437-11	CARBON	47K 5% 1/4W
R502	1-216-025-91	RES, CHIP	100 5% 1/10W	R555	1-249-437-11	CARBON	47K 5% 1/4W
R503	1-216-033-00	RES, CHIP	220 5% 1/10W	R557	1-249-437-11	CARBON	47K 5% 1/4W
R504	1-216-073-00	RES, CHIP	10K 5% 1/10W	R559	1-249-437-11	CARBON	47K 5% 1/4W
R505	1-216-081-00	RES, CHIP	22K 5% 1/10W	R561	1-249-437-11	CARBON	47K 5% 1/4W
R506	1-247-807-31	CARBON	100 5% 1/4W	R563	1-249-405-11	CARBON	100 5% 1/4W F
R507	1-247-863-91	CARBON	22K 5% 1/4W	R564	1-249-405-11	CARBON	100 5% 1/4W F
R508	1-215-861-00	METAL OXIDE	47 5% 1W F	R565	1-249-405-11	CARBON	100 5% 1/4W F
R509	1-249-381-11	CARBON	1 5% 1/4W F	R566	1-249-405-11	CARBON	100 5% 1/4W F
R510	1-219-677-11	METAL	1.8 5% 10W	R567	1-249-405-11	CARBON	100 5% 1/4W F
R511 Δ	1-249-377-11	CARBON	0.47 5% 1/4W F	R568	1-249-405-11	CARBON	100 5% 1/4W F
R512	1-214-842-11	METAL	120 1% 1/2W	R569	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R513	1-216-423-11	METAL OXIDE	27 5% 1W F	R570	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W
R514	1-249-397-11	CARBON	22 5% 1/4W F	R572	1-249-429-11	CARBON	10K 5% 1/4W
R515	1-249-425-11	CARBON	4.7K 5% 1/4W	R573	1-216-385-11	METAL OXIDE	0.47 5% 3W F
R516	1-249-425-11	CARBON	4.7K 5% 1/4W	R574	1-249-404-00	CARBON	82 5% 1/4W
R517	1-216-089-91	RES, CHIP	47K 5% 1/10W	R575	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R518	1-216-033-00	RES, CHIP	220 5% 1/10W	R576	1-216-097-91	RES, CHIP	100K 5% 1/10W
R519	1-216-037-00	RES, CHIP	330 5% 1/10W	R577	1-216-049-91	RES, CHIP	1K 5% 1/10W
R520	1-216-033-00	RES, CHIP	220 5% 1/10W	R579	1-216-025-91	RES, CHIP	100 5% 1/10W
R521	1-247-807-31	CARBON	100 5% 1/4W	R580	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R522	1-216-081-00	RES, CHIP	22K 5% 1/10W	R581	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R523	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R582	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R524	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R583	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R525	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W	R584	1-216-473-11	METAL OXIDE	56 5% 3W F
R526	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R585	1-216-381-11	METAL OXIDE	0.22 5% 3W F
R527	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R586	1-260-125-11	CARBON	150K 5% 1/2W
R528	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R587	1-216-641-11	METAL CHIP	390 0.50% 1/10W
R529	1-216-099-00	RES, CHIP	120K 5% 1/10W	R601	1-249-425-11	CARBON	4.7K 5% 1/4W
R530	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R604	1-205-997-11	CEMENTED	2.2 5% 10W
R531	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R605	1-240-265-11	RES, CEMENT	2.7 5% 10W
R532	1-216-073-00	RES, CHIP	10K 5% 1/10W	R615	1-216-615-91	METAL CHIP	33 0.50% 1/10W
R533	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R625	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R535	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R626	1-215-927-00	METAL OXIDE	47K 5% 3W F
R536	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R627	1-219-513-11	CARBON	4.7M 5% 1/2W
R537	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R628	1-216-115-00	RES, CHIP	560K 5% 1/10W
R538	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R629	1-216-119-00	RES, CHIP	820K 5% 1/10W
R539	1-216-065-91	RES, CHIP	4.7K 5% 1/10W	R630	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R540	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R631	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R541	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R632	1-218-758-11	METAL CHIP	180K 0.50% 1/10W
R542	1-214-842-11	METAL	120 1% 1/2W	R633	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R543	1-214-842-11	METAL	120 1% 1/2W	R635	1-216-097-91	RES, CHIP	100K 5% 1/10W
R544	1-249-393-11	CARBON	10 5% 1/4W F	R636	1-249-397-11	CARBON	22 5% 1/4W F



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R637	1-215-893-11	METAL OXIDE	1.5K 5% 2W F	R705	1-215-863-11	METAL OXIDE	100 5% 1W F
R638	1-215-893-11	METAL OXIDE	1.5K 5% 2W F	R706	1-216-423-11	METAL OXIDE	27 5% 1W F
R639	1-216-609-11	METAL CHIP	18 0.50% 1/10W	R707	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R640	1-216-344-00	METAL OXIDE	0.39 5% 1W F	R708	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R641	1-216-345-11	METAL OXIDE	0.47 5% 1W F	R709	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R642	1-249-381-11	CARBON	1 5% 1/4W F	R710	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R643	1-247-791-91	CARBON	22 5% 1/4W	R711	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R644	1-247-807-31	CARBON	100 5% 1/4W	R712	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R645 Δ	1-211-874-71	RES, FUSE	0.12 10% 1/2W	R713	1-215-858-00	METAL OXIDE	15 5% 1W F
R648 Δ	1-211-874-71	RES, FUSE	0.12 10% 1/2W	R714	1-215-863-11	METAL OXIDE	100 5% 1W F
R649 Δ	1-211-874-71	RES, FUSE	0.12 10% 1/2W	R715	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R650 Δ	1-211-874-71	RES, FUSE	0.12 10% 1/2W	R716	1-249-377-11	CARBON	0.47 5% 1/4W F
R651	1-249-441-11	CARBON	100K 5% 1/4W	R717	1-249-377-11	CARBON	0.47 5% 1/4W F
R652	1-215-923-00	METAL OXIDE	10K 5% 3W F	R718	1-216-426-11	METAL OXIDE	82 5% 1W F
R653	1-215-902-11	METAL OXIDE	47K 5% 2W F	R719	1-216-369-00	METAL OXIDE	1 5% 2W F
R656	1-215-467-00	METAL	82K 1% 1/4W	R720	1-216-295-91	SHORT	0
R657	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R721	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R658	1-216-346-00	METAL OXIDE	0.56 5% 1W F	R722	1-216-426-11	METAL OXIDE	82 5% 1W F
R659	1-249-425-11	CARBON	4.7K 5% 1/4W	R723	1-216-295-91	SHORT	0
R660	1-215-465-00	METAL	68K 1% 1/4W	R724	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R661	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R725	1-216-369-00	METAL OXIDE	1 5% 2W F
R662	1-215-467-00	METAL	82K 1% 1/4W	R726	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R664	1-215-902-11	METAL OXIDE	47K 5% 2W F	R727	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R671	1-216-073-00	RES, CHIP	10K 5% 1/10W	R728	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R672	1-249-407-11	CARBON	150 5% 1/4W	R729	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R673	1-216-073-00	RES, CHIP	10K 5% 1/10W	R730	1-216-073-00	RES, CHIP	10K 5% 1/10W
R674 Δ	1-220-827-91	RES, SURGE	560K 5% 1/2W	R731	1-216-081-00	RES, CHIP	22K 5% 1/10W
R675	1-249-403-11	CARBON	68 5% 1/4W	R732	1-249-383-11	CARBON	1.5 5% 1/4W F
R676	1-215-467-00	METAL	82K 1% 1/4W	R733	1-215-859-00	METAL OXIDE	22 5% 1W F
R677	1-216-025-91	RES, CHIP	100 5% 1/10W	R734	1-215-864-00	METAL OXIDE	150 5% 1W F
R678	1-216-645-11	METAL CHIP	560 0.50% 1/10W	R735	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R679	1-215-467-00	METAL	82K 1% 1/4W	R736	1-216-049-91	RES, CHIP	1K 5% 1/10W
R680	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R737	1-216-049-91	RES, CHIP	1K 5% 1/10W
R681	1-215-466-00	METAL	75K 1% 1/4W	R738	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R682	1-215-463-00	METAL	56K 1% 1/4W	R739	1-249-434-11	CARBON	27K 5% 1/4W
R684	1-216-009-91	RES, CHIP	22 5% 1/10W	R740	1-216-089-91	RES, CHIP	47K 5% 1/10W
R685	1-216-073-00	RES, CHIP	10K 5% 1/10W	R741	1-216-049-91	RES, CHIP	1K 5% 1/10W
R686	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R742	1-216-067-00	RES, CHIP	5.6K 5% 1/10W
R687	1-216-689-11	RES, CHIP	39K 5% 1/10W	R743	1-216-037-00	RES, CHIP	330 5% 1/10W
R689	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R744	1-249-413-11	CARBON	470 5% 1/4W F
R690	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W	R745	1-249-389-11	CARBON	4.7 5% 1/4W F
R691	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R746	1-249-389-11	CARBON	4.7 5% 1/4W F
R692	1-216-081-00	RES, CHIP	22K 5% 1/10W	R747	1-216-357-00	METAL OXIDE	4.7 5% 1W F
R693	1-219-513-11	CARBON	4.7M 5% 1/2W	R748	1-219-752-11	CARBON	100K 5% 1/2W
R697	1-215-927-00	METAL OXIDE	47K 5% 3W F	R749	1-215-437-00	METAL	4.7K 1% 1/4W
R698	1-215-927-00	METAL OXIDE	47K 5% 3W F	R751	1-216-073-00	RES, CHIP	10K 5% 1/10W
R700	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R752	1-216-085-00	RES, CHIP	33K 5% 1/10W
R701	1-249-385-11	CARBON	2.2 5% 1/4W	R753	1-249-393-11	CARBON	10 5% 1/4W F
R703	1-249-385-11	CARBON	2.2 5% 1/4W	R754	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
				R755	1-216-675-91	METAL CHIP	10K 0.50% 1/10W

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The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R901	1-216-097-91	RES, CHIP	100K 5% 1/10W	R1046	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R902	1-216-089-91	RES, CHIP	47K 5% 1/10W	R1047	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R904	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R1048	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R905	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1049	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R906	1-216-699-91	METAL CHIP	100K 0.50% 1/10W	R1050	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R907	1-216-295-91	SHORT	0	R1051	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R908	1-249-425-11	CARBON	4.7K 5% 1/4W	R1065	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R909	1-215-913-11	METAL OXIDE	220 5% 3W F	R1070	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R910	1-215-913-11	METAL OXIDE	220 5% 3W F	R1072	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R911	1-249-397-11	CARBON	22 5% 1/4W F	R1073 \triangle	1-216-049-91	RES, CHIP	1K 5% 1/10W
R912	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1074	1-216-049-91	RES, CHIP	1K 5% 1/10W
R914	1-216-041-00	RES, CHIP	470 5% 1/10W	R1083	1-216-025-91	RES, CHIP	100 5% 1/10W
R915	1-249-397-11	CARBON	22 5% 1/4W F	R1084	1-216-041-00	RES, CHIP	470 5% 1/10W
R916	1-249-385-11	CARBON	2.2 5% 1/4W F	R1085	1-216-025-91	RES, CHIP	100 5% 1/10W
R917	1-249-385-11	CARBON	2.2 5% 1/4W F	R1086	1-216-073-00	RES, CHIP	10K 5% 1/10W
R918	1-214-964-00	METAL	1M 1% 1/4W	R1092	1-216-033-00	RES, CHIP	220 5% 1/10W
R919	1-216-073-00	RES, CHIP	10K 5% 1/10W	R1093	1-216-033-00	RES, CHIP	220 5% 1/10W
R920	1-216-691-11	METAL CHIP	47K 0.50% 1/10W	R1094	1-216-113-00	RES, CHIP	470K 5% 1/10W
R921	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1095	1-216-073-00	RES, CHIP	10K 5% 1/10W
R923	1-215-469-00	METAL	100K 1% 1/4W	R1096	1-216-073-00	RES, CHIP	10K 5% 1/10W
R924	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R1097	1-216-077-91	RES, CHIP	15K 5% 1/10W
R925	1-218-762-11	METAL CHIP	270K 0.50% 1/10W	R1098	1-216-077-91	RES, CHIP	15K 5% 1/10W
R926	1-216-073-00	RES, CHIP	10K 5% 1/10W	R1099	1-216-033-00	RES, CHIP	220 5% 1/10W
R927	1-220-823-91	CARBON	6.8K 5% 1/2W	R1104	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R928	1-220-825-11	CARBON	330K 5% 1/2W				
R929	1-216-089-91	RES, CHIP	47K 5% 1/10W	VARIABLE RESISTOR			
R930	1-219-748-11	CARBON	4.7K 5% 1/2W	\boxtimes RV901 \triangle	1-241-767-21	RES, ADJ, CEMENT 100K	
R931	1-219-748-11	CARBON	4.7K 5% 1/2W		3-710-578-01	COVER, VOLUME, 6 MOLD (for RV901)	
R932	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W				
R933	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W				
R934 \triangle	1-249-377-11	CARBON	0.47 5% 1/4W F	RELAY			
R1001	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	RY601 \triangle	1-755-067-21	RELAY, AC POWER	
R1003	1-216-025-91	RES, CHIP	100 5% 1/10W	RY602 \triangle	1-755-318-11	RELAY, POWER	
R1004	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1005	1-247-815-91	CARBON	220 5% 1/4W	SWITCH			
R1006	1-216-033-00	RES, CHIP	220 5% 1/10W	S602	1-771-757-11	SWITCH, PUSH (1 KEY)	
R1010	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1011	1-216-049-91	RES, CHIP	1K 5% 1/10W	SPARK GAP			
R1012	1-216-017-91	RES, CHIP	47 5% 1/10W	SG901	1-517-499-21	GAP, SPARK	
R1013	1-216-017-91	RES, CHIP	47 5% 1/10W	SG902	1-519-422-11	GAP, SPARK	
R1014	1-216-025-91	RES, CHIP	100 5% 1/10W	SG903	1-519-422-11	GAP, SPARK	
R1015	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1016	1-216-033-00	RES, CHIP	220 5% 1/10W	TRANSFORMER			
R1017	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	T501	1-433-628-11	TRANSFORMER, FERRITE (HDT)	
R1018	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	T502	1-411-594-41	INDUCTOR 5mH	
R1019	1-216-017-91	RES, CHIP	47 5% 1/10W	T503	1-435-140-11	TRANSFORMER, FERRITE (LCT)	
R1020	1-216-017-91	RES, CHIP	47 5% 1/10W				
R1021	1-216-025-91	RES, CHIP	100 5% 1/10W				
R1022	1-216-025-91	RES, CHIP	100 5% 1/10W				
R1039	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
T504	1-431-413-21	TRANSFORMER, FERRITE (HST)		TRANSISTOR			
T602 \triangle	1-435-141-11	TRANSFORMER, CONVERTER (SRT)		Q2001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
T701	1-435-129-11	TRANSFORMER, FERRITE (DFT)		Q2002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
T901 \triangle	1-453-317-11	FBT ASSY NX-4700//X 4E4		RESISTOR			
T902	1-411-567-31	INDUCTOR 500 μ H		R2001	1-249-422-11	CARBON 2.7K 5% 1/4W	
THERMISTOR				R2002	1-249-429-11	CARBON 10K 5% 1/4W	
TH600 \triangle	1-809-260-11	THERMISTOR, POWER		R2003	1-249-429-11	CARBON 10K 5% 1/4W	
TH601 \triangle	1-803-540-11	THERMISTOR		R2004	1-215-411-00	METAL 390 1% 1/4W	
VARISTOR				R2005	1-215-417-00	METAL 680 1% 1/4W	
VA601 \triangle	1-801-073-31	VARISTOR TNR14V471K660		R2006	1-249-411-11	CARBON 330 5% 1/4W	
CRYSTAL				R2007	1-249-413-11	CARBON 470 5% 1/4W	
X1001	1-567-890-11	VIBRATOR, CRYSTAL		R2008	1-249-415-11	CARBON 680 5% 1/4W	
H				R2009	1-249-417-11	CARBON 1K 5% 1/4W	
* A-1372-693-A H BOARD, COMPLETE (FOR U/C ONLY)				R2010	1-249-421-11	CARBON 2.2K 5% 1/4W	
* A-1372-741-A H BOARD, COMPLETE (FOR AEP ONLY)				R2012	1-249-429-11	CARBON 10K 5% 1/4W	
CAPACITOR				R2013	1-249-425-11	CARBON 4.7K 5% 1/4W	
C2002	1-126-786-11	ELECT 47 μ F 20% 16V		SWITCH			
CONNECTOR				S2002	1-762-196-21	SWITCH, TACTILE	
CN2001*	1-564-523-11	PLUG, CONNECTOR 8P		S2003	1-762-196-21	SWITCH, TACTILE	
DIODE				S2004	1-762-196-21	SWITCH, TACTILE	
D2001	8-719-064-11	DIODE SPR-325MVW		S2005	1-762-196-21	SWITCH, TACTILE	
D2004	8-719-070-11	DIODE NNCD5.6A-T1		S2006	1-762-196-21	SWITCH, TACTILE	
D2005	8-719-970-83	DIODE HSS82		S2007	1-762-196-21	SWITCH, TACTILE	
D2006	8-719-970-83	DIODE HSS82		S2008	1-762-196-21	SWITCH, TACTILE	
D2007	8-719-970-83	DIODE HSS82		N			
D2008	8-719-970-83	DIODE HSS82		* A-1390-957-A N BOARD, COMPLETE (FOR U/C ONLY)			
FERRITE BEAD				* A-1390-997-A N BOARD, COMPLETE (FOR AEP ONLY)			
FB2001	1-412-911-11	FERRITE 0 μ H		CAPACITOR			
FB2002	1-412-911-11	FERRITE 0 μ H		C801	1-113-340-11	ELECT 47 μ F 20% 25V	
FB2003	1-412-911-11	FERRITE 0 μ H		C803	1-163-809-11	CERAMIC CHIP 0.047 μ F 10% 25V	
FB2004	1-412-911-11	FERRITE 0 μ H		C809	1-163-809-11	CERAMIC CHIP 0.047 μ F 10% 25V	
FB2005	1-412-911-11	FERRITE 0 μ H		C810	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
				C811	1-163-809-11	CERAMIC CHIP 0.047 μ F 10% 25V	
				C812	1-164-004-11	CERAMIC CHIP 0.1 μ F 10% 25V	
				C813	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
				C814	1-164-004-11	CERAMIC CHIP 0.1 μ F 10% 25V	
				C817	1-119-941-91	ELECT 470 μ F 20% 6.3V	
				C818	1-113-340-11	ELECT 47 μ F 20% 25V	
				C819	1-163-037-11	CERAMIC CHIP 0.022 μ F 10% 50V	
				C820	1-119-941-91	ELECT 470 μ F 20% 6.3V	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C821	1-163-038-91	CERAMIC CHIP	0.1µF 25V	Q805	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR	
C822	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V				
C823	1-163-038-91	CERAMIC CHIP	0.1µF 25V				
C824	1-163-133-00	CERAMIC CHIP	470pF 5% 50V				
C825	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V				
C826	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V				
C827	1-119-941-91	ELECT	470µF 20% 6.3V				
C828	1-164-161-11	CERAMIC CHIP	0.0022µF 10% 50V				
C829	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V				
C830	1-113-340-11	ELECT	47µF 20% 25V				
C832	1-131-722-91	ELECT	100µF 20% 6.3V				
C833	1-163-038-91	CERAMIC CHIP	0.1µF 25V				
C835	1-163-038-91	CERAMIC CHIP	0.1µF 25V				
C837	1-163-017-00	CERAMIC CHIP	0.0047µF 10% 50V				
C838	1-163-017-00	CERAMIC CHIP	0.0047µF 10% 50V				
C839	1-163-017-00	CERAMIC CHIP	0.0047µF 10% 50V				
C840	1-163-017-00	CERAMIC CHIP	0.0047µF 10% 50V				
C841	1-163-023-00	CERAMIC CHIP	0.015µF 10% 50V				
		CONNECTOR					
CN801	1-793-585-11	PIN, CONNECTOR (PC BOARD)	15P				
CN802	1-793-586-11	PIN, CONNECTOR (PC BOARD)	15P				
		DIODE					
D802	8-719-049-09	DIODE 1SS367-T3SONY					
		FERRITE BEAD					
FB801	1-543-960-22	FERRITE	0µH				
FB802	1-216-295-91	SHORT	0				
FB809	1-543-963-22	FERRITE	0µH				
FB810	1-543-963-22	FERRITE	0µH				
		IC					
IC801	8-759-589-56	IC CXD9517Q					
IC802	8-759-569-45	IC LD1117S33TR					
IC803	8-759-502-82	IC LM324M					
		CHIP CONDUCTOR					
JR801	1-216-295-91	SHORT	0				
JR802	1-216-295-91	SHORT	0				
		TRANSISTOR					
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q804	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR					
		RESISTOR					
R801	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R802	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R803	1-216-033-00	RES, CHIP	220 5% 1/10W				
R804	1-216-033-00	RES, CHIP	220 5% 1/10W				
R805	1-216-033-00	RES, CHIP	220 5% 1/10W				
R806	1-216-033-00	RES, CHIP	220 5% 1/10W				
R807	1-216-033-00	RES, CHIP	220 5% 1/10W				
R808	1-216-033-00	RES, CHIP	220 5% 1/10W				
R809	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R810	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R811	1-216-057-00	RES, CHIP	2.2K 5% 1/10W				
R812	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R813	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R814	1-216-031-00	RES, CHIP	180 5% 1/10W				
R815	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R816	1-218-768-11	METAL CHIP	470K 0.50% 1/10W				
R818	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R819	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R820	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R821	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R822	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R823	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R824	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R825	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R826	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R827	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R828	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R829	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R830	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R831	1-216-033-00	RES, CHIP	220 5% 1/10W				
R832	1-216-025-91	RES, CHIP	100 5% 1/10W				
R833	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R834	1-216-647-11	METAL CHIP	680 0.50% 1/10W				
R835	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R836	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R837	1-216-648-11	METAL CHIP	750 0.50% 1/10W				
R838	1-216-041-00	RES, CHIP	470 5% 1/10W				
R839	1-216-117-00	RES, CHIP	680K 5% 1/10W				
R840	1-216-650-11	METAL CHIP	910 0.50% 1/10W				
R841	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R842	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R843	1-216-069-00	RES, CHIP	6.8K 5% 1/10W				
R844	1-216-025-91	RES, CHIP	100 5% 1/10W				
R846	1-216-025-91	RES, CHIP	100 5% 1/10W				
R847	1-216-675-91	METAL CHIP	10K 0.50% 1/10W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R851	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R852	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R853	1-216-053-00	RES, CHIP	1.5K 5% 1/10W				
R855	1-216-105-91	RES, CHIP	220K 5% 1/10W				
R856	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R857	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R858	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R859	1-216-025-91	RES, CHIP	100 5% 1/10W				
R860	1-216-025-91	RES, CHIP	100 5% 1/10W				
R863	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R864	1-216-025-91	RES, CHIP	100 5% 1/10W				
R866	1-216-049-91	RES, CHIP	1K 5% 1/10W				

USERS GUIDE CD-ROM



P991

US Model

Canadian Model

Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-1

(For product mfg. in Pencoed only)

Subject: New D Block Diagram. New A Board Schematic, Printed Circuit Board. New D Board Schematic, Printed Circuit Board. New N Board Schematic, Printed Circuit Board. New Exploded View. New Electrical Parts List.

File this supplement with the service manual.

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☞ : Modified Portion

<u>Item</u>	<u>Page No.</u>
☞ D Block Diagram	3
☞ A Board Schematic	5
☞ D Board Schematic	9
☞ N Board Schematic	17
☞ Exploded View	19
☞ Electrical Parts List	21

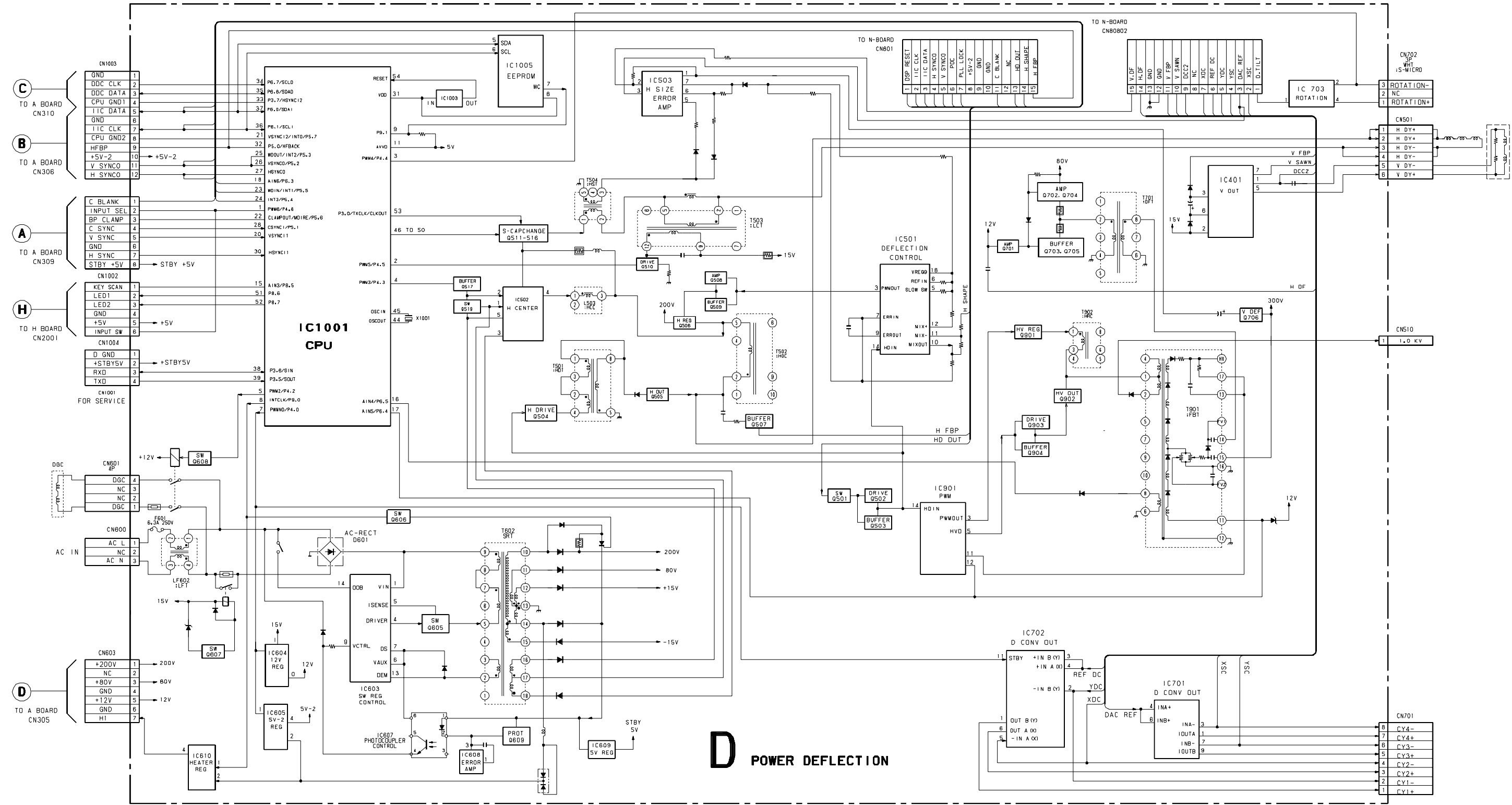
Design and specifications are subject to change without notice.

COLOR MONITOR

DELL[®]

SECTION 5 DIAGRAMS

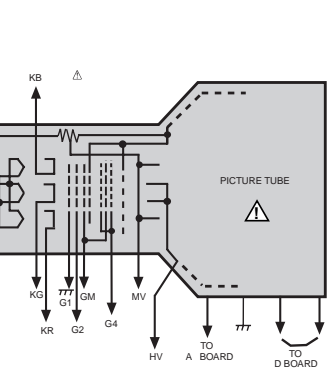
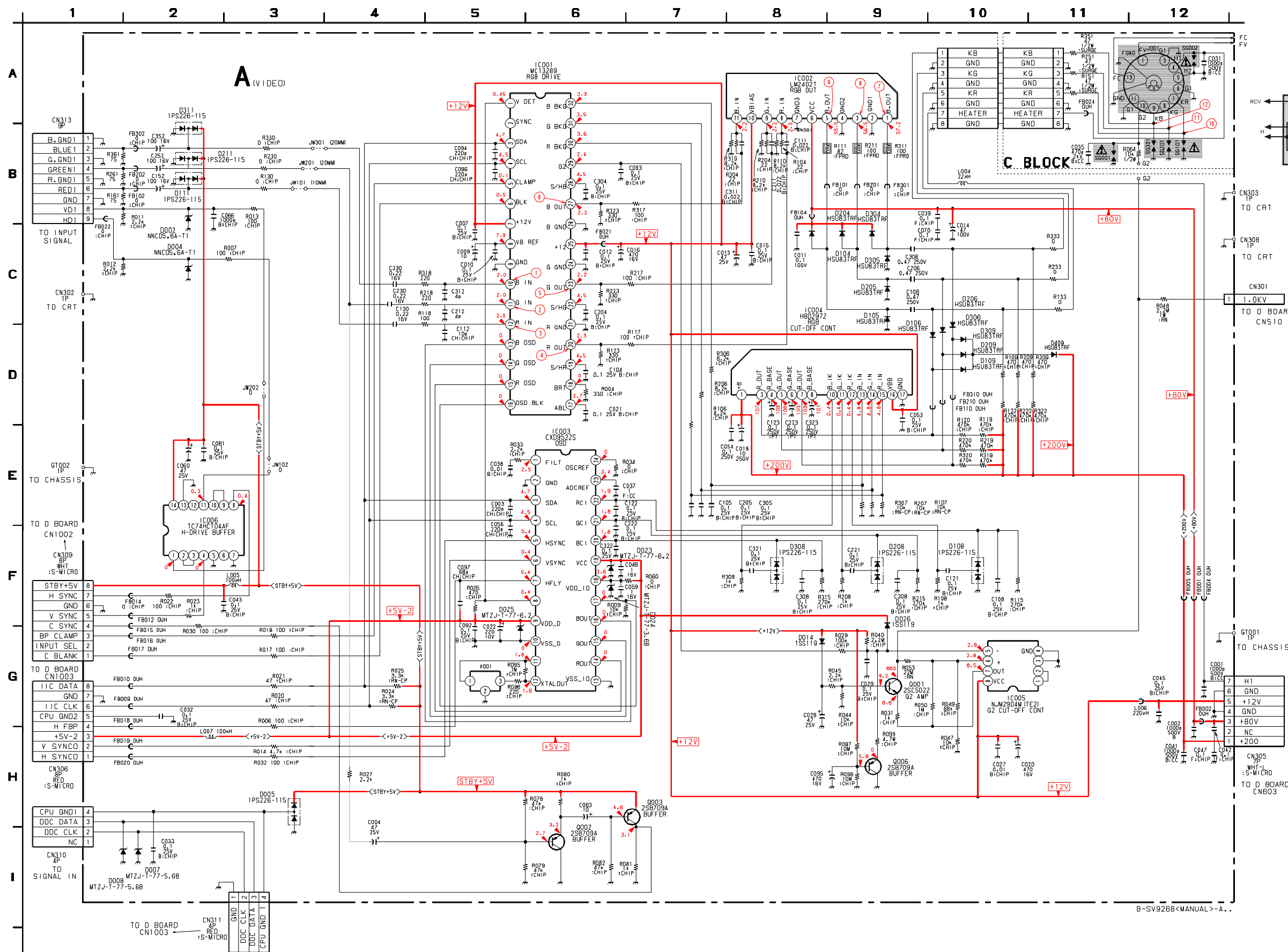
5.1 BLOCK DIAGRAM



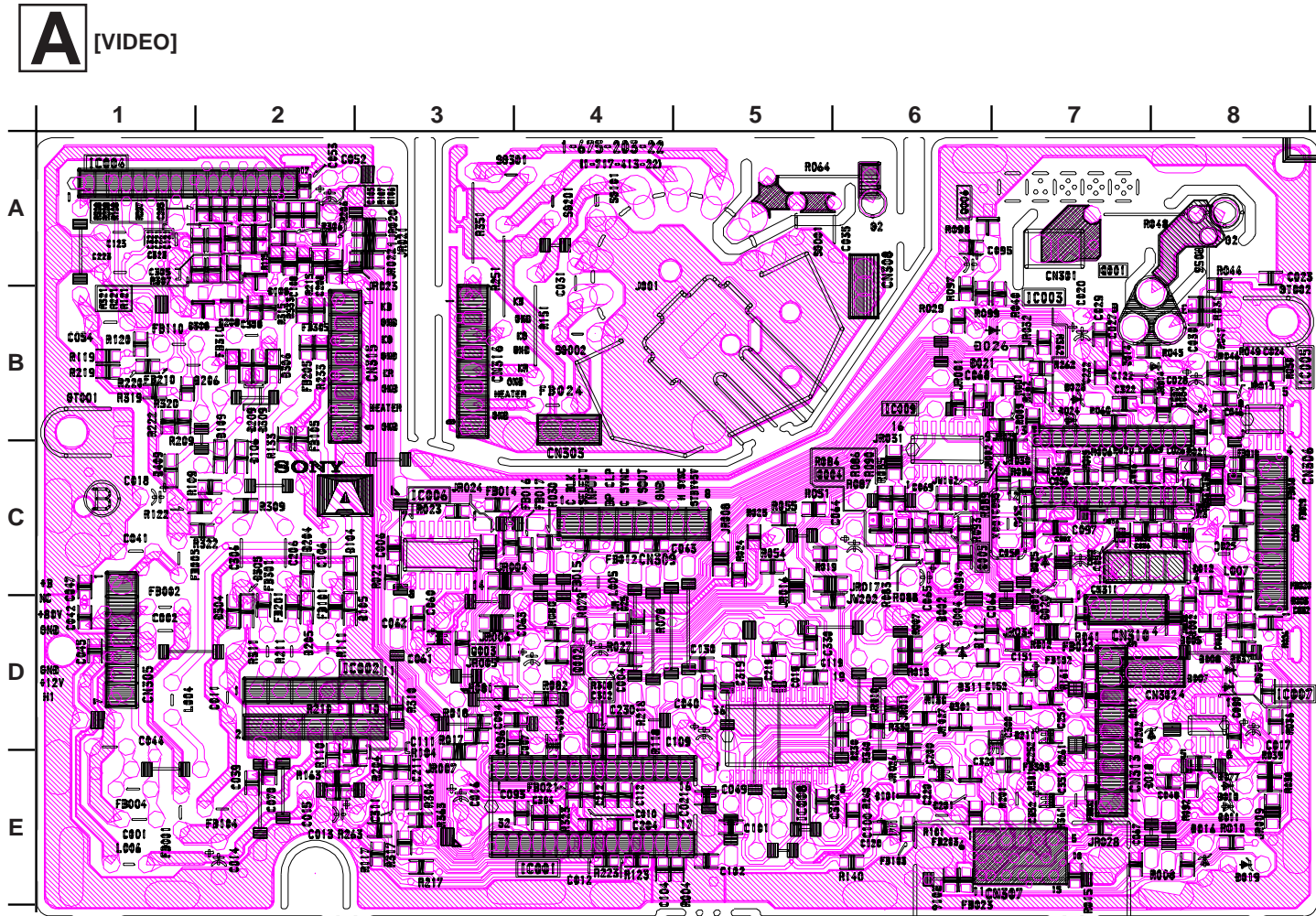
D POWER DEFLECTION

B-SV9268<MANUAL>-BLK.

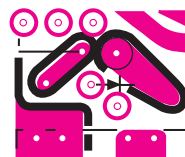
A Board Schematic Diagram



← BLOCK DIAGRAM
A BOARD →



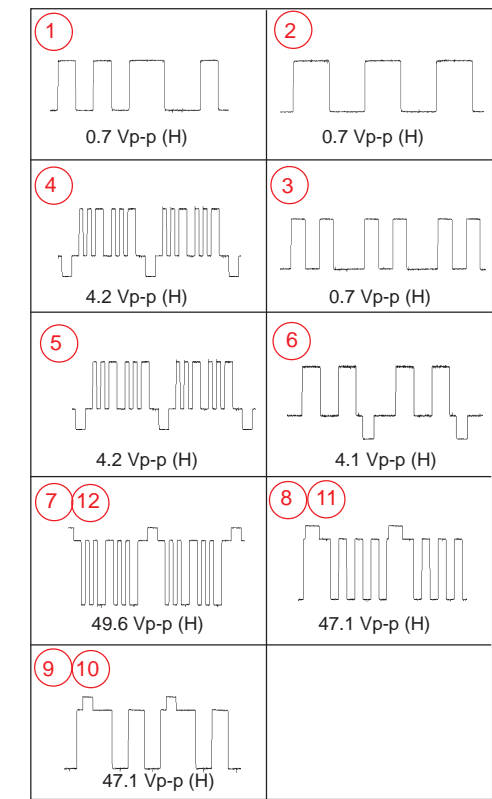
A [VIDEO]

NOTE:

 Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

A BOARD LOCATION LIST

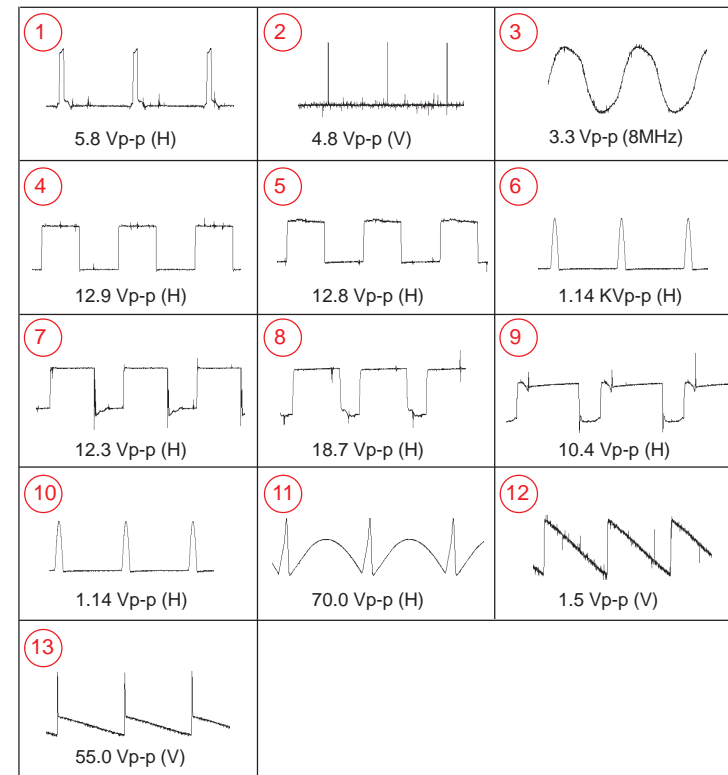
DIODE		D209	B - 2
D002	C - 6	D211	D - 7
D004	C - 6	D304	C - 2
D005	C - 8	D305	C - 2
D007	D - 8	D306	B - 2
D008	D - 8	D308	B - 2
D014	B - 7	D309	B - 2
D023	B - 7	D311	D - 6
D024	B - 7	D409	B - 2
D025	C - 7	IC	
D026	B - 7	IC001	E - 4
D104	C - 3	IC002	D - 3
D105	C - 3	IC003	B - 7
D106	B - 2	IC004	A - 1
D108	A - 2	IC005	B - 8
D109	B - 2	IC006	C - 3
D111	C - 6	TRANSISTOR	
D204	C - 2	Q001	A - 7
D205	C - 2	Q002	D - 4
D206	B - 2	Q003	D - 3
D208	B - 2	Q006	A-6

A BOARD WAVEFORMS

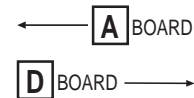
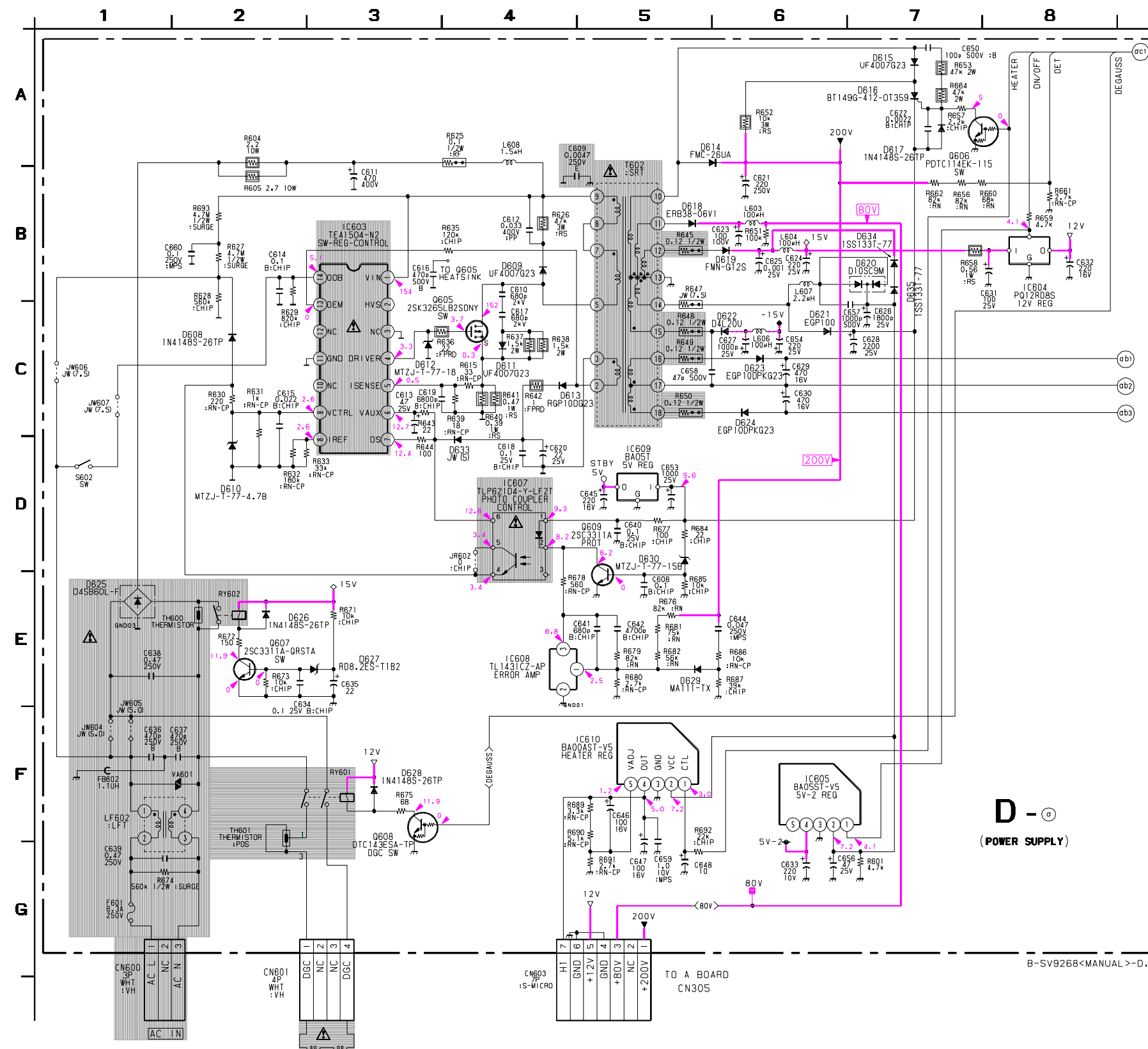
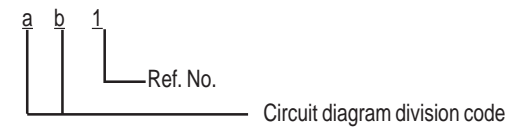


D Board Schematic Diagram (1/3)

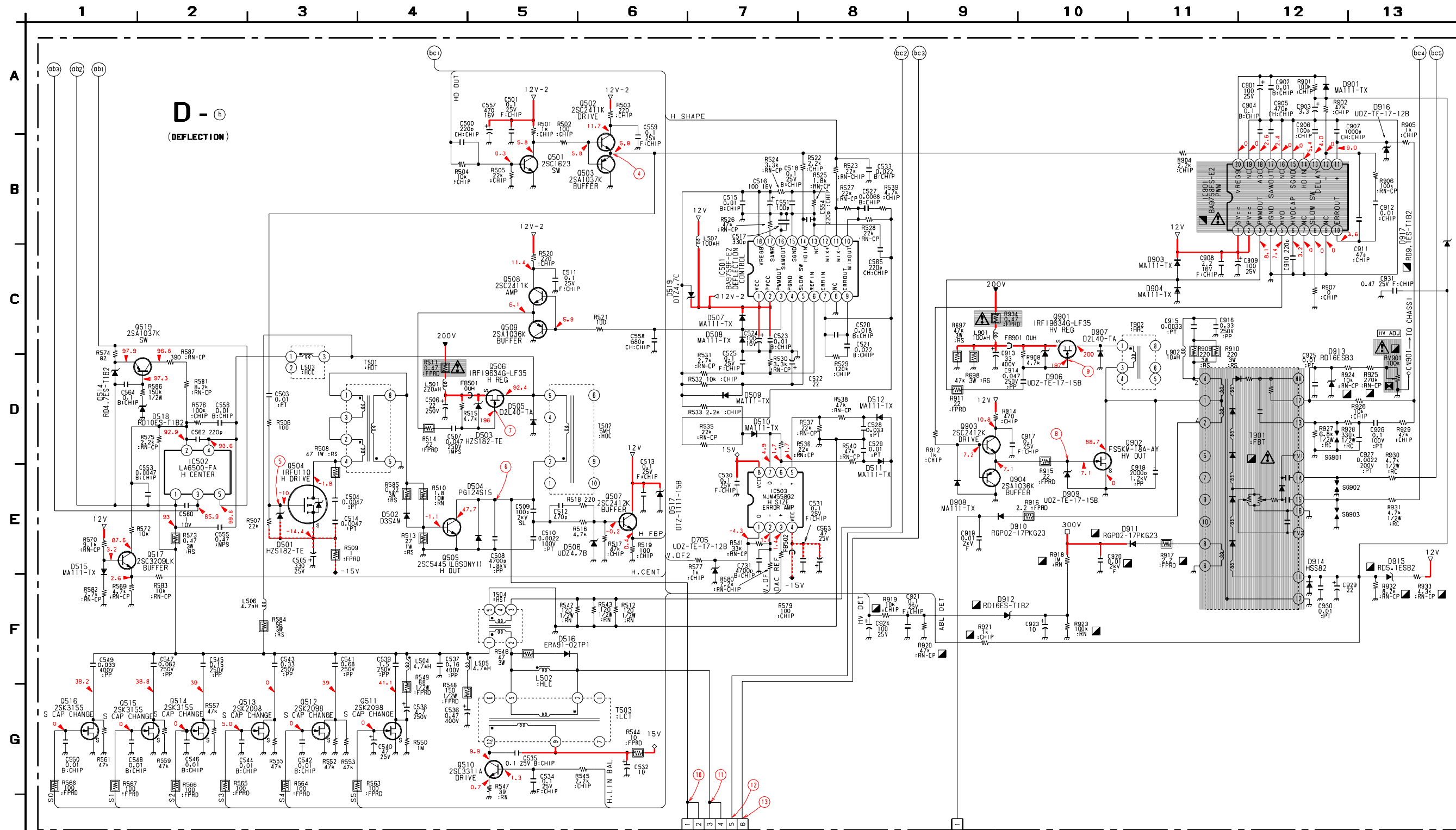
D BOARD WAVEFORMS



Divided circuit diagram
 D board circuit diagram is divided into three sheets, each having the code D - Ⓐ to D - Ⓒ. For example, the destination ab1 on the code D - Ⓐ sheet is connected to ab1 and bc1 on the D - Ⓑ and D - Ⓒ sheet.



D Board Schematic Diagram (2/3)

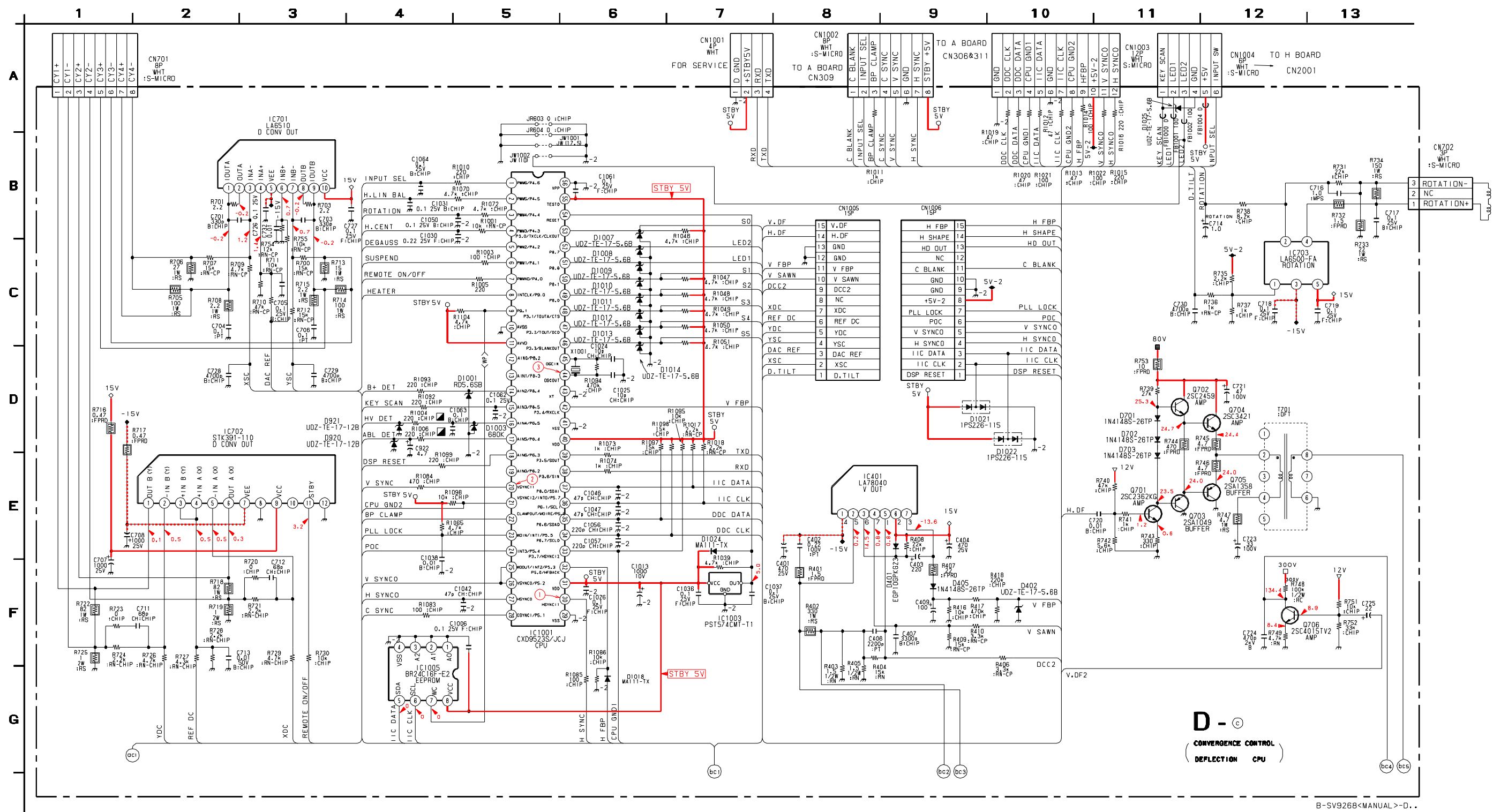


D BOARD IC VOLTAGE LIST

IC501	6	5.0	13	0
pin	7	0	14	4.5
1	8	0	15	0
2	9	4.1	16	3.4
3	10	4.4	17	9.1
4	11	3.2	18	9.1
5	12	3.2		

All Voltages are in V

D Board Schematic Diagram (3/3)



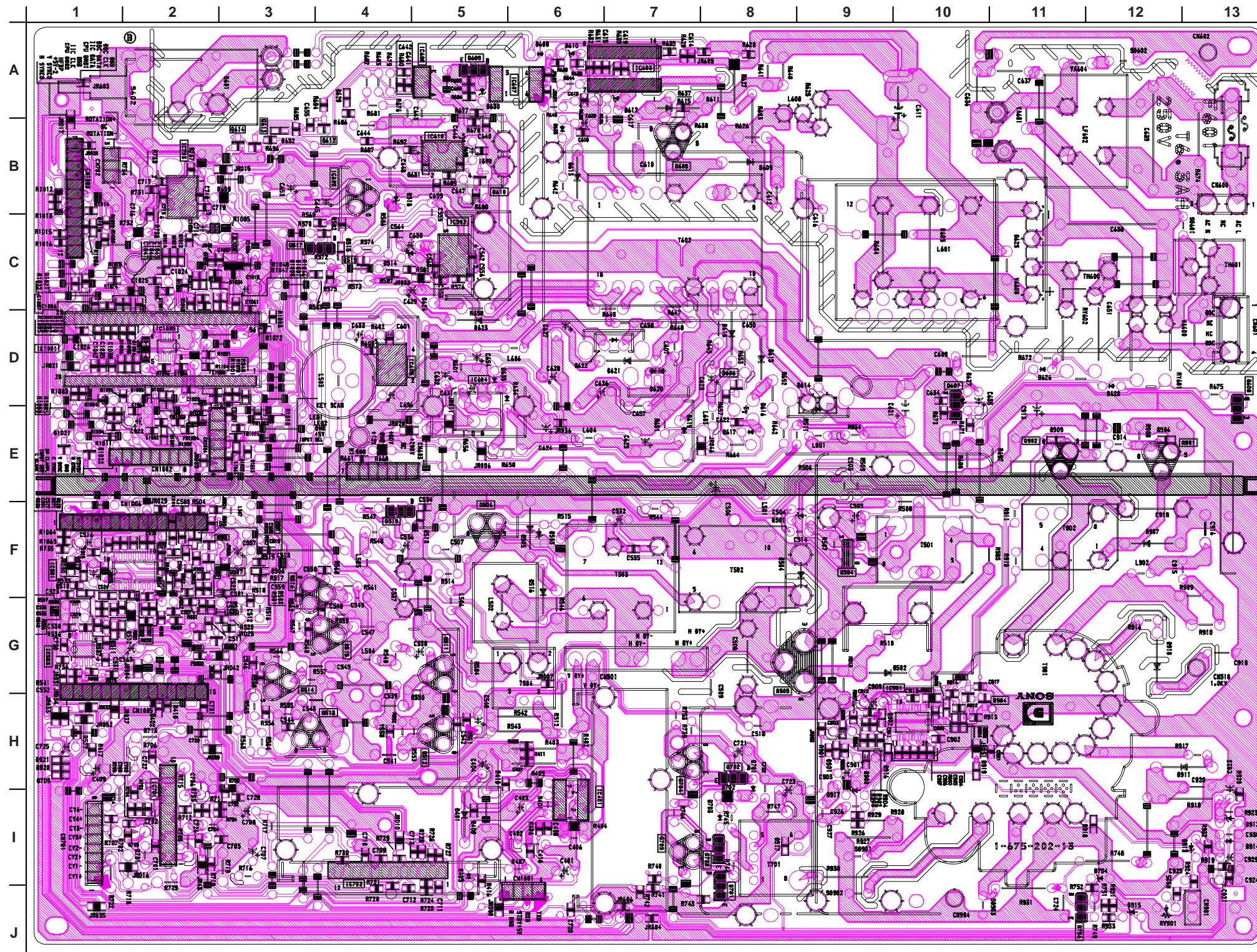
D BOARD IC VOLTAGE LIST

IC1001		7	5.0	15	4.9	23	5.0	30	0.4	37	4.7	44	5.1	0	
pin	volt	8	5.0	16	4.0	24	4.7	31	5.0	38	0.7	45	2.4	52	5.0
1	0	9	5.0	17	3.4	25	0	32	0.44	39	5.0	46	0	53	0
2	1.6	10	0	18	5.0	26	0	33	0	40	5.0	47	0	54	5.0
3	2.5	11	5.0	19	0	27	0.37	34	4.8	41	0	48	5.0	55	5.0
4	3.3	12	0	20	0.3	28	3.1	35	5.0	42	3.5	49	0	56	0
5	0	13	0	21	5.0	29	0	36	4.5	43	0	50	0		
6	0	14	0	22	0.1										

All Voltages are in V

← D BOARD →

D [POWER DEFLECTION]

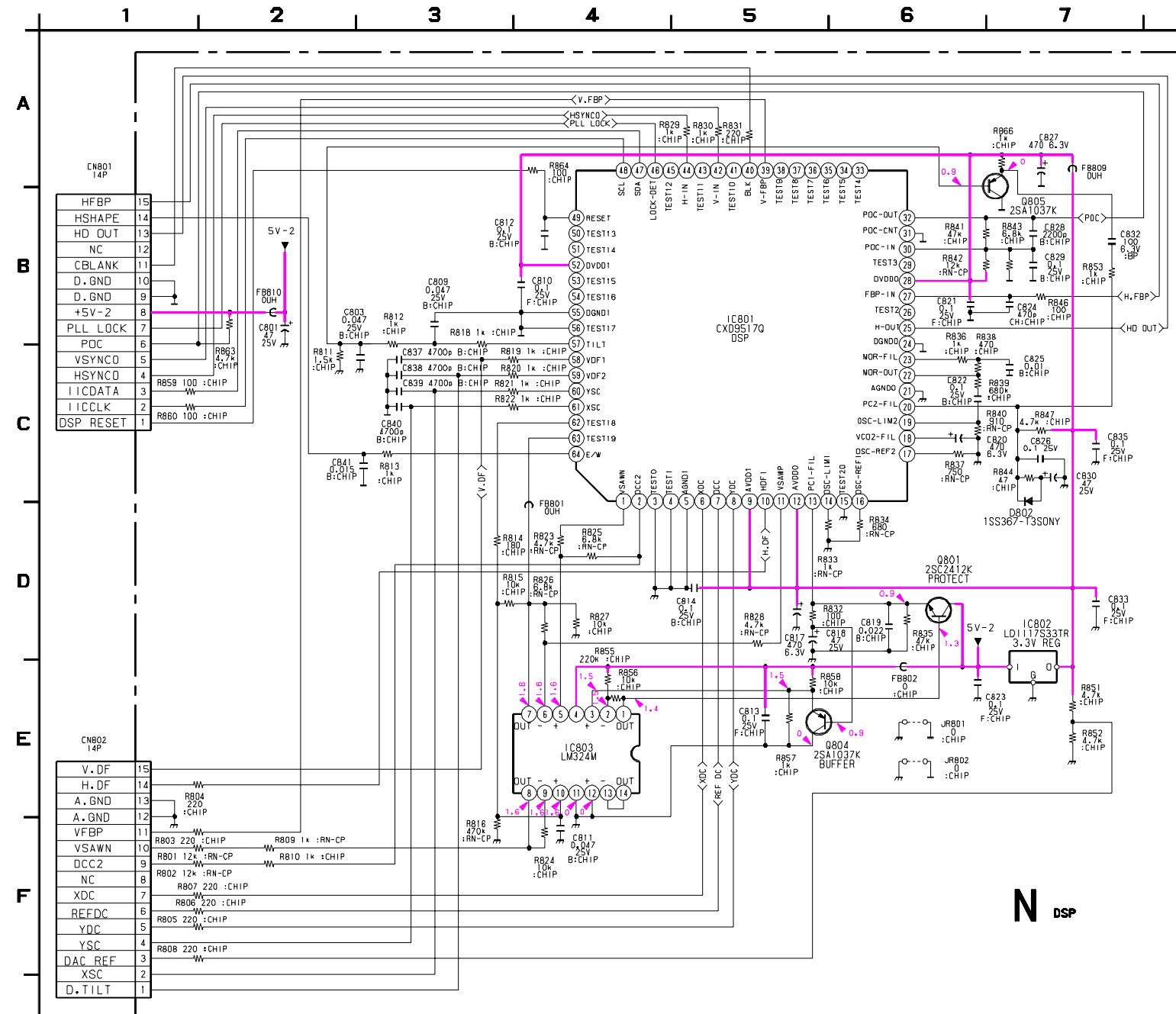


D BOARD LOCATION LIST

DIODE		D635	D-5	IC608	A-5
D401	I-5	D701	H-8	IC609	B-4
D405	I-5	D702	H-8	IC610	B-5
D501	F-8	D703	I-8	IC701	I-2
D502	G-10	D901	H-9	IC702	J-4
D503	F-6	D903	H-10	IC703	B-2
D504	F-8	D904	H-10	IC901	G-10
D505	F-6	D906	E-12	IC1001	D-1
D506	F-3	D907	F-12	IC1003	C-3
D507	G-1	D908	H-10	IC1005	D-2
D508	G-1	D909	E-11	TRANSISTOR	
D509	F-2	D910	G-12	Q501	F-3
D510	F-1	D911	H-13	Q502	F-2
D511	G-1	D912	I-13	Q503	F-2
D512	G-1	D913	I-13	Q504	F-9
D514	C-4	D914	I-13	Q505	H-8
D515	C-4	D915	J-12	Q506	F-5
D516	F-6	D916	I-12	Q507	F-3
D517	I-8	D917	I-9	Q508	G-3
D518	B-4	D920	H-1	Q509	G-2
D519	C-4	D921	H-1	Q510	F-4
D608	A-6	D1001	E-2	Q511	G-5
D609	B-8	D1003	D-2	Q512	H-5
D610	A-6	D1007	C-3	Q513	H-4
D611	A-8	D1008	C-3	Q514	H-3
D612	A-7	D1009	E-2	Q515	G-4
D613	B-6	D1010	C-2	Q516	F-3
D614	D-9	D1011	C-2	Q517	C-3
D615	D-8	D1012	C-2	Q519	C-4
D616	E-8	D1013	C-2	Q605	B-7
D617	E-8	D1014	C-2	Q606	D-8
D618	D-8	D1018	C-1	Q607	D-10
D619	E-7	D1021	E-1	Q608	D-13
D620	D-7	D1022	E-1	Q609	B-4
D621	D-7	D1024	C-3	Q701	I-8
D622	D-6	D1025	E-2	Q702	H-8
D623	D-4	IC		Q703	I-8
D624	C-5	IC401	I-6	Q704	I-7
D625	C-11	IC501	F-1	Q705	I-7
D626	D-11	IC502	C-5	Q706	J-11
D627	D-10	IC503	G-1	Q901	E-13
D628	D-12	IC603	A-7	Q902	E-11
D629	A-3	IC604	D-5	Q903	G-10
D630	A-5	IC605	D-4	Q904	H-11
D634	D-5	IC607	A-6		

NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

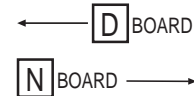
N Board Schematic Diagram



N BOARD IC VOLTAGE LIST

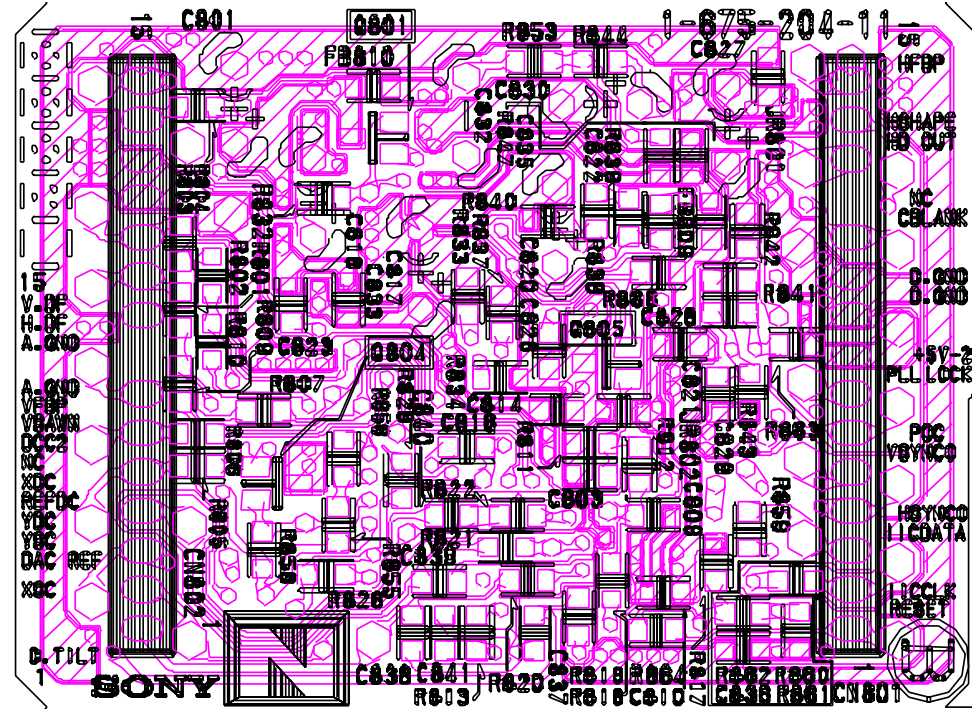
IC801		10	1.6	21	GND	32	NC	43	NC	54	NC
pin	volt	11	1.6	22	0	33	NC	44	0.4	55	0
1	1.6	12	3.3	23	0	34	NC	45	NC	56	0
2	1.6	13	0.9	24	GND	35	NC	46	5.0	57	1.6
3	0	14	0.9	25	1.6	36	NC	47	4.6	58	1.9
4	0	15	GND	26	NC	37	NC	48	4.4	59	1.6
5	1.6	16	0.9	27	0.3	38	NC	49	5.0	60	1.6
6	1.6	17	1.0	28	3.3	39	3.5	50	NC	61	1.6
7	1.6	18	1.0	29	NC	40	0.4	51	NC	62	1.6
8	1.6	19	1.0	30	1.5	41	NC	52	3.3	63	1.6
9	3.3	20	1.0	31	GND	42	0	53	NC	64	1.8

All Voltages are in V

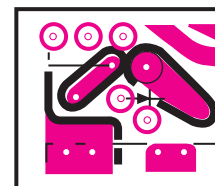
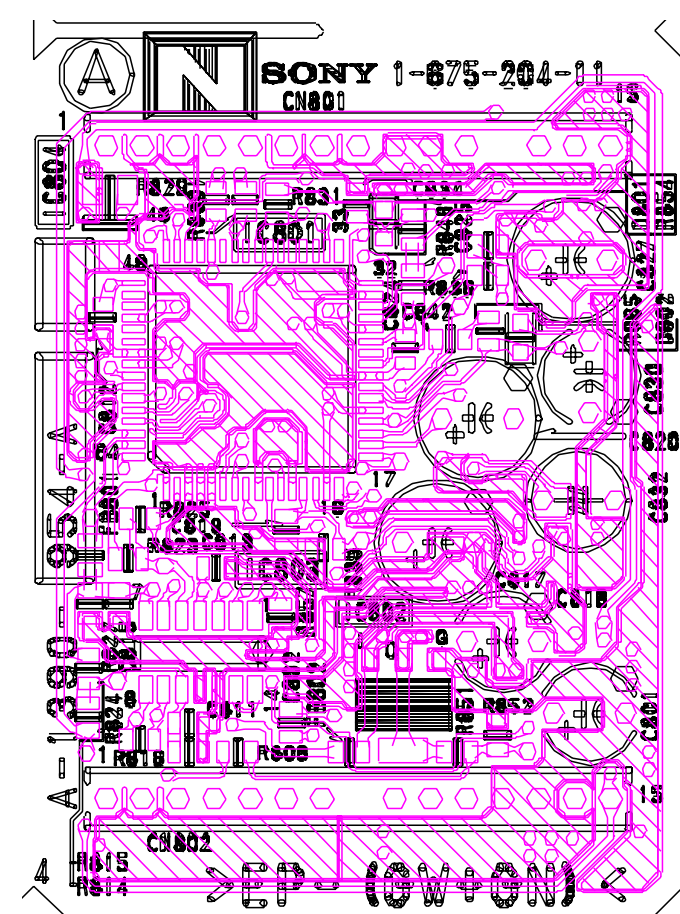


N [DSP]

<CONDUCTOR SIDE>



<COMPONENT SIDE>



NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

SECTION 6 EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

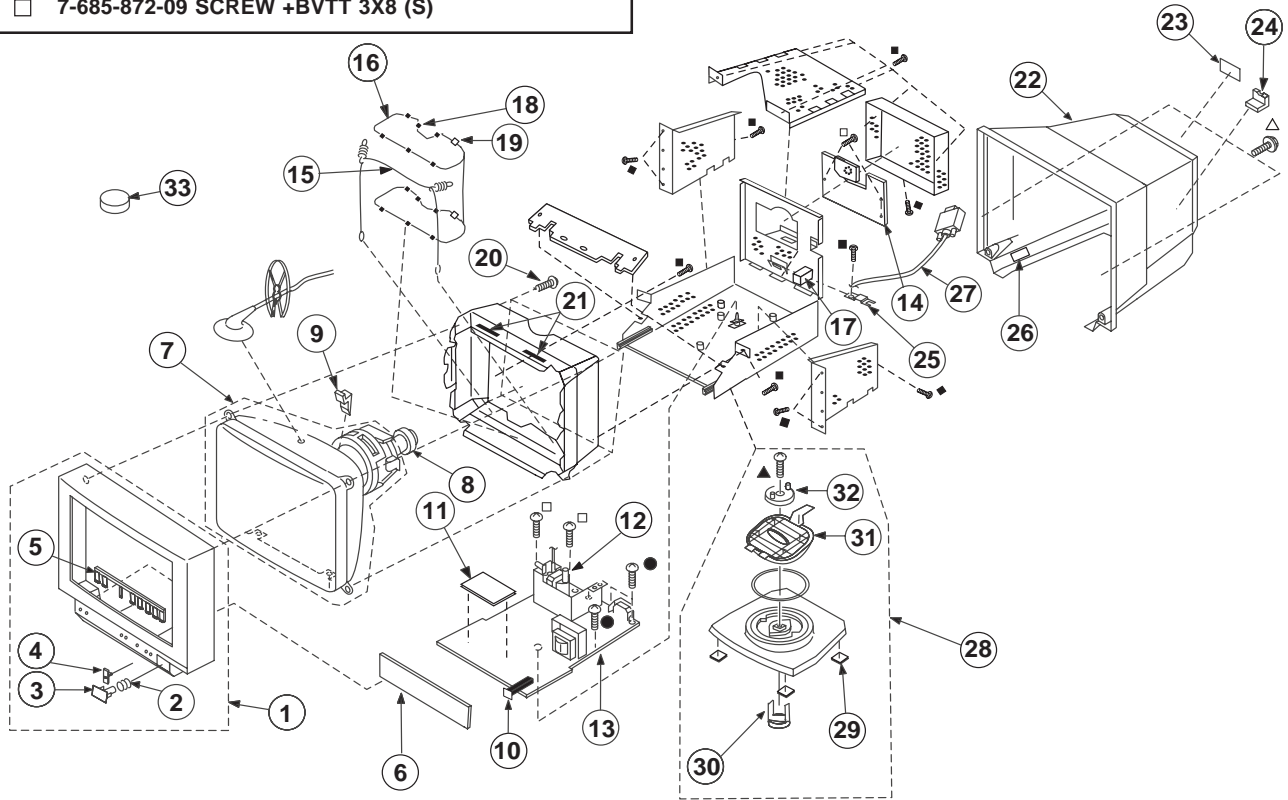
The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un triangle et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

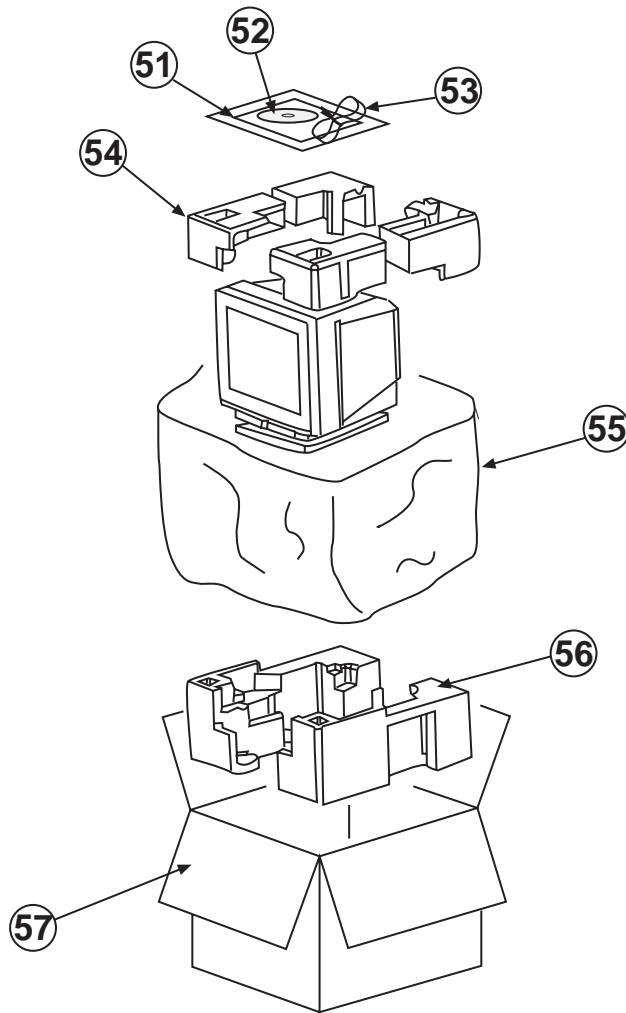
- ▲ 7-685-882-09 SCREW +BVTT 4X10 (S)
- 7-685-881-09 SCREW +BVTT 4X8 (S)
- 4-039-357-01 SCREW +BVTP 3X8
- △ 4-039-358-01 SCREW +BVTP 4X16
- 7-685-872-09 SCREW +BVTT 3X8 (S)



REF.NO.	PART.NO.	DESCRIPTION	REMARK
1 *	X-4037-299-1	BEZEL ASSY	2-5
2	3-653-339-21	SPRING, COMPRESSION	
3	4-071-964-01	BUTTON, POWER	
4	4-073-345-01	GUIDE, LIGHT	
5	4-073-344-01	BUTTON, MULTI	
6 *	A-1372-741-A	H BOARD, COMPLETE	
7 ▲	8-736-407-61	ITC ASSEMBLY (19TKC-R1)	
8 ▲	1-452-912-61	NECK ASSEMBLY (NA-2914)	
9	4-040-897-01	SPACER, DY	
10	4-073-342-01	CAP, POWER	
11 *	A-1390-997-A	N BOARD, COMPLETE	
12 ▲	1-453-317-11	FBT ASSY, NX-4700//X4E4	
13 *	A-1346-921-B	D BOARD, COMPLETE	
14 *	A-1299-082-C	A BOARD, COMPLETE	
15 *	4-047-316-01	SPRING, TENSION	
16 ▲	1-419-285-11	COIL, DEGAUSSING	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
17	1-251-382-31	AC INLET, 3P	
18	4-071-175-01	HOLDER, DEGAUSSING COIL	
19	4-041-021-02	HOLDER, DEGAUSE COIL	
20	4-384-096-01	SCREW (5), TAPPING	
21	4-067-370-01	CUSHION, 50X20	
22	4-073-340-01	CABINET	
23 *	4-073-261-01	LABEL, INFORMATION	
24 *	4-073-341-01	COVER, CABLE	
25 *	4-045-131-11	STOPPER, CABLE	
26	4-063-246-21	COVER, CONNECTOR	
27 *	1-790-283-22	CABLE ASSY (15PDSUB CONNECTOR)	
28	X-4037-590-1	BASE ASSY, STAND	29-32
29 *	4-060-533-01	CUSHION	
30	4-072-648-01	STOPPER, B	
31	4-071-961-01	SLIDER	
32	4-045-121-01	STOPPER (A), STAND	
33	1-452-032-00	MAGNET, DISC	

6-2. PACKING MATERIALS



REF.NO.	PARTNO.	DESCRIPTION	REMARK
51 Δ	1-790-662-11	CORD SET, POWER	
52 *	1-772-504-11	MANUAL, CD-ROM	
53 *	3-867-831-21	MANUAL, QUICK SETUP	
54 *	4-073-278-01	CUSHION ASSY, UPPER	
55 *	4-060-490-01	BAG, POLYETHYLENE	
56 *	4-073-273-01	CUSHION ASSY, LOWER	
57 *	4-073-276-01	CARTON, INDIVIDUAL	

SECTION 7 ELECTRICAL PARTS LIST



Note:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked with an asterisk " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<div style="border: 1px solid black; display: inline-block; padding: 5px; font-size: 2em; font-weight: bold;">A</div>							
* A-1299-082-C A BOARD, COMPLETE							
" 4-382-854-01 SCREW (M3X8), P, SW (+)							
<u>CAPACITOR</u>							
C001	1-162-318-11	CERAMIC	0.001 μ F 10% 500V	C042	1-165-319-11	CERAMIC CHIP	0.1 μ F 50V
C002	1-162-318-11	CERAMIC	0.001 μ F 10% 500V	C043	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C003	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C045	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C004	1-104-664-11	ELECT	47 μ F 20% 25V	C046	1-164-346-11	CERAMIC CHIP	1 μ F 16V
C007	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C047	1-165-319-11	CERAMIC CHIP	0.1 μ F 50V
C009	1-126-964-11	ELECT	10 μ F 20% 50V	C053	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C010	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C054	1-104-341-11	MYLAR	0.1 μ F 10% 250V
C011	1-106-220-00	MYLAR	0.1 μ F 10% 100V	C056	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C012	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C059	1-164-346-11	CERAMIC CHIP	1 μ F 16V
C013	1-107-888-11	ELECT	47 μ F 20% 25V	C060	1-104-664-11	ELECT	47 μ F 20% 25V
C014	1-107-932-11	ELECT	47 μ F 20% 100V	C061	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C015	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C063	1-126-964-11	ELECT	10 μ F 20% 50V
C016	1-126-935-11	ELECT	470 μ F 20% 16V	C066	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V
C018	1-107-652-11	ELECT	10 μ F 20% 250V	C070	1-165-319-11	CERAMIC CHIP	0.1 μ F 50V
C020	1-126-935-11	ELECT	470 μ F 20% 16V	C092	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C021	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C093	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C022	1-126-934-11	ELECT	220 μ F 20% 10V	C094	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C027	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C095	1-126-935-11	ELECT	470 μ F 20% 16V
C028	1-104-664-11	ELECT	47 μ F 20% 25V	C096	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C029	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C097	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
C031	1-162-318-11	CERAMIC	0.001 μ F 10% 500V	C104	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C032	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C105	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C033	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C106	1-117-450-11	MYLAR	0.47 μ F 10% 250V
C035	1-162-134-11	CERAMIC	470pF 10% 2KV	C108	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C037	1-136-177-00	MYLAR	1 μ F 5% 50V	C111	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C038	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C112	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V
C039	1-165-319-11	CERAMIC CHIP	0.1 μ F 50V	C121	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C041	1-162-318-11	CERAMIC	0.001 μ F 10% 500V	C122	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C123	1-104-341-11	MYLAR	0.1 μ F 10% 250V
				C130	1-164-489-11	CERAMIC CHIP	0.22 μ F 10% 16V
				C152	1-126-933-11	ELECT	100 μ F 20% 16V
				C204	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C205	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C206	1-117-450-11	MYLAR	0.47 μ F 10% 250V
				C208	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C211	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
				C212	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C221	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	D206	8-719-052-12	DIODE 1SS376TE-17	
C222	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	D208	8-719-062-51	DIODE 1PS226-115	
C223	1-104-341-11	MYLAR	0.1µF 10% 250V	D209	8-719-052-12	DIODE 1SS376TE-17	
C230	1-164-489-11	CERAMIC CHIP	0.22µF 10% 16V	D211	8-719-062-51	DIODE 1PS226-115	
C252	1-126-933-11	ELECT	100µF 20% 16V	D304	8-719-052-12	DIODE 1SS376TE-17	
C304	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	D305	8-719-052-12	DIODE 1SS376TE-17	
C305	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	D306	8-719-052-12	DIODE 1SS376TE-17	
C306	1-117-450-11	MYLAR	0.47µF 10% 250V	D308	8-719-062-51	DIODE 1PS226-115	
C308	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	D309	8-719-052-12	DIODE 1SS376TE-17	
C311	1-163-037-11	CERAMIC CHIP	0.022µF 10% 50V	D311	8-719-062-51	DIODE 1PS226-115	
C312	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D409	8-719-052-12	DIODE 1SS376TE-17	
C321	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V				
C322	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	<u>FERRITE BEAD</u>			
C323	1-104-341-11	MYLAR	0.1µF 10% 250V	FB001	1-412-911-11	FERRITE	0µH
C330	1-164-489-11	CERAMIC CHIP	0.22µF 10% 16V	FB002	1-412-911-11	FERRITE	0µH
C352	1-126-933-11	ELECT	100µF 20% 16V	FB004	1-412-911-11	FERRITE	0µH
<u>CONNECTOR</u>				FB005	1-412-911-11	FERRITE	0µH
CN301	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P		FB009	1-414-231-22	INDUCTOR CHIP	0µH
CN302	1-695-915-11	TAB (CONTACT)		FB010	1-414-231-22	INDUCTOR CHIP	0µH
CN303	1-695-915-11	TAB (CONTACT)		FB012	1-414-231-22	INDUCTOR CHIP	0µH
CN305 *	1-564-522-11	PLUG, CONNECTOR 7P		FB014	1-216-295-91	SHORT	0
CN306 *	1-564-511-11	PLUG, CONNECTOR 8P		FB015	1-414-231-22	INDUCTOR CHIP	0µH
CN308	1-695-915-11	TAB (CONTACT)		FB016	1-414-231-22	INDUCTOR CHIP	0µH
CN309 *	1-564-511-11	PLUG, CONNECTOR 8P		FB017	1-414-231-22	INDUCTOR CHIP	0µH
CN310 *	1-779-944-21	PIN, CONNECTOR (PC BOARD) 4P		FB018	1-414-231-22	INDUCTOR CHIP	0µH
CN311 *	1-564-507-11	PLUG, CONNECTOR 4P		FB019	1-414-231-22	INDUCTOR CHIP	0µH
<u>DIODE</u>				FB020	1-414-231-22	INDUCTOR CHIP	0µH
D002	8-719-109-89	DIODE RD5.6ESB2		FB021	1-414-231-22	INDUCTOR CHIP	0µH
D004	8-719-109-89	DIODE RD5.6ESB2		FB022	1-216-295-91	SHORT	0
D005	8-719-062-51	DIODE 1PS226-115		FB024	1-412-911-11	FERRITE	0µH
D007	8-719-109-89	DIODE RD5.6ESB2		FB101	1-216-295-91	SHORT	0
D008	8-719-109-89	DIODE RD5.6ESB2		FB102	1-216-295-91	SHORT	0
D014	8-719-911-19	DIODE 1SS119-25		FB104	1-412-911-11	FERRITE	0µH
D023	8-719-921-54	DIODE MTZJ-6.2B		FB110	1-412-911-11	FERRITE	0µH
D024	8-719-921-54	DIODE MTZJ-6.2B		FB201	1-216-295-91	SHORT	0
D025	8-719-921-54	DIODE MTZJ-6.2B		FB202	1-216-295-91	SHORT	0
D026	8-719-911-19	DIODE 1SS119-25		FB210	1-412-911-11	FERRITE	0µH
D104	8-719-052-12	DIODE 1SS376TE-17		FB301	1-216-295-91	SHORT	0
D105	8-719-052-12	DIODE 1SS376TE-17		FB302	1-216-295-91	SHORT	0
D106	8-719-052-12	DIODE 1SS376TE-17		FB310	1-412-911-11	FERRITE	0µH
D108	8-719-062-51	DIODE 1PS226-115		<u>TERMINAL</u>			
D109	8-719-052-12	DIODE 1SS376TE-17		GT001 *	1-537-738-21	TERMINAL, EARTH	
D111	8-719-062-51	DIODE 1PS226-115		GT002 *	1-537-738-21	TERMINAL, EARTH	
D204	8-719-052-12	DIODE 1SS376TE-17					
D205	8-719-052-12	DIODE 1SS376TE-17					

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une 1 pièce portant le numéro spécifié.

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC				TRANSISTOR			
IC001	8-759-599-70	IC MC13289		L005	1-412-537-31	INDUCTOR 100 μ H	
IC002	8-759-591-40	IC LM2402T		L006	1-412-541-41	INDUCTOR 220 μ H	
IC003	8-759-639-50	IC CXD9522S		L007	1-408-615-31	INDUCTOR 100 μ H	
IC004	8-749-015-92	IC H8D2972		RESISTOR			
IC005	8-759-701-01	IC NJM2904M		Q001	8-729-032-61	TRANSISTOR 2SC5022-02	
IC006	8-759-233-66	IC TC74HCT04AF		Q002	8-729-216-22	TRANSISTOR 2SA1162-G	
JACK				Q003	8-729-216-22	TRANSISTOR 2SA1162-G	
J001 \triangle	1-451-499-11	SOCKET, CRT		Q006	8-729-216-22	TRANSISTOR 2SA1162-G	
CHIP CONDUCTOR				RESISTOR			
JR002	1-216-295-91	SHORT	0	R004	1-216-037-00	RES, CHIP 330 5% 1/10W	
JR004	1-216-296-91	SHORT	0	R005	1-216-041-00	RES, CHIP 470 5% 1/10W	
JR005	1-216-295-91	SHORT	0	R006	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR006	1-216-296-91	SHORT	0	R007	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR007	1-216-296-91	SHORT	0	R009	1-216-073-00	RES, CHIP 10K 5% 1/10W	
JR008	1-216-296-91	SHORT	0	R011	1-216-057-00	RES, CHIP 2.2K 5% 1/10W	
JR010	1-216-295-91	SHORT	0	R012	1-216-057-00	RES, CHIP 2.2K 5% 1/10W	
JR011	1-216-295-91	SHORT	0	R013	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR012	1-216-296-91	SHORT	0	R014	1-216-065-91	RES, CHIP 4.7K 5% 1/10W	
JR013	1-216-295-91	SHORT	0	R017	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR014	1-216-295-91	SHORT	0	R018	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR015	1-216-295-91	SHORT	0	R020	1-216-017-91	RES, CHIP 47 5% 1/10W	
JR016	1-216-296-91	SHORT	0	R021	1-216-017-91	RES, CHIP 47 5% 1/10W	
JR017	1-216-296-91	SHORT	0	R022	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR020	1-216-296-91	SHORT	0	R023	1-216-049-91	RES, CHIP 1K 5% 1/10W	
JR021	1-216-296-91	SHORT	0	R024	1-216-061-00	RES, CHIP 3.3K 5% 1/10W	
JR022	1-216-296-91	SHORT	0	R025	1-216-061-00	RES, CHIP 3.3K 5% 1/10W	
JR023	1-216-296-91	SHORT	0	R027	1-216-057-00	RES, CHIP 2.2K 5% 1/10W	
JR024	1-216-296-91	SHORT	0	R029	1-216-097-91	RES, CHIP 100K 5% 1/10W	
JR025	1-216-295-91	SHORT	0	R030	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR026	1-216-295-91	SHORT	0	R031	1-216-049-91	RES, CHIP 1K 5% 1/10W	
JR027	1-216-295-91	SHORT	0	R032	1-216-025-91	RES, CHIP 100 5% 1/10W	
JR028	1-216-295-91	SHORT	0	R033	1-216-057-00	RES, CHIP 2.2K 5% 1/10W	
JR029	1-216-296-91	SHORT	0	R034	1-216-295-91	SHORT 0	
JR030	1-216-295-91	SHORT	0	R040	1-216-129-00	RES, CHIP 2.2M 5% 1/10W	
JR031	1-216-296-91	SHORT	0	R044	1-216-073-00	RES, CHIP 10K 5% 1/10W	
JR032	1-216-295-91	SHORT	0	R045	1-216-057-00	RES, CHIP 2.2K 5% 1/10W	
JR033	1-216-296-91	SHORT	0	R047	1-216-073-00	RES, CHIP 10K 5% 1/10W	
JR034	1-216-296-91	SHORT	0	R048	1-219-398-51	METAL 2.2M 5% 1W	
COIL				R049	1-216-093-91	RES, CHIP 68K 5% 1/10W	
L004	1-412-529-11	INDUCTOR 22 μ H		R050	1-216-121-91	RES, CHIP 1M 5% 1/10W	
				R053	1-219-621-91	METAL 22M 10% 1/4W	
				R060	1-414-231-22	INDUCTOR CHIP 0 μ H	
				R064	1-219-749-91	CARBON 10K 5% 1/2W	
				R078	1-216-089-91	RES, CHIP 47K 5% 1/10W	



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REF.NO.	PART NO.	DESCRIPTION	REMARK
R079	1-216-089-91	RES, CHIP	47K 5% 1/10W
R080	1-216-049-91	RES, CHIP	1K 5% 1/10W
R081	1-216-049-91	RES, CHIP	1K 5% 1/10W
R082	1-216-089-91	RES, CHIP	47K 5% 1/10W
R095	1-216-121-91	RES, CHIP	1M 5% 1/10W
R096	1-216-033-00	RES, CHIP	220 5% 1/10W
R097	1-218-179-11	RES, CHIP	10M 5% 1/10W
R098	1-218-179-11	RES, CHIP	10M 5% 1/10W
R099	1-208-291-11	RES, CHIP	4.7M 5% 1/10W
R104	1-216-009-91	RES, CHIP	22 5% 1/10W
R106	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R107	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R108	1-216-049-91	RES, CHIP	1K 5% 1/10W
R109	1-216-041-00	RES, CHIP	470 5% 1/10W
R110	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R111	1-249-404-00	CARBON	82 5% 1/4W F
R115	1-216-107-00	RES, CHIP	270K 5% 1/10W
R117	1-216-025-91	RES, CHIP	100 5% 1/10W
R118	1-216-025-91	RES, CHIP	100 5% 1/10W
R119	1-216-113-00	RES, CHIP	470K 5% 1/10W
R120	1-216-113-00	RES, CHIP	470K 5% 1/10W
R122	1-216-113-00	RES, CHIP	470K 5% 1/10W
R123	1-216-037-00	RES, CHIP	330 5% 1/10W
R130	1-216-295-91	SHORT	0
R133	1-216-295-91	SHORT	0
R151	1-219-742-11	CARBON	47 5% 1/2W
R161	1-215-394-00	METAL	75 1% 1/4W
R204	1-216-009-91	RES, CHIP	22 5% 1/10W
R206	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R207	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R208	1-216-049-91	RES, CHIP	1K 5% 1/10W
R209	1-216-041-00	RES, CHIP	470 5% 1/10W
R210	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R211	1-249-405-11	CARBON	100 5% 1/4W F
R215	1-216-107-00	RES, CHIP	270K 5% 1/10W
R217	1-216-025-91	RES, CHIP	100 5% 1/10W
R218	1-216-033-00	RES, CHIP	220 5% 1/10W
R219	1-216-113-00	RES, CHIP	470K 5% 1/10W
R220	1-216-113-00	RES, CHIP	470K 5% 1/10W
R222	1-216-113-00	RES, CHIP	470K 5% 1/10W
R223	1-216-037-00	RES, CHIP	330 5% 1/10W
R230	1-216-295-91	SHORT	0
R233	1-216-295-91	SHORT	0
R251	1-219-742-11	CARBON	47 5% 1/2W
R261	1-215-394-00	METAL	75 1% 1/4W
R304	1-216-009-91	RES, CHIP	22 5% 1/10W
R306	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R307	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R308	1-216-049-91	RES, CHIP	1K 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R309	1-216-041-00	RES, CHIP	470 5% 1/10W
R310	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
R311	1-249-405-11	CARBON	100 5% 1/4W F
R315	1-216-107-00	RES, CHIP	270K 5% 1/10W
R317	1-216-025-91	RES, CHIP	100 5% 1/10W
R318	1-216-033-00	RES, CHIP	220 5% 1/10W
R319	1-216-113-00	RES, CHIP	470K 5% 1/10W
R320	1-216-113-00	RES, CHIP	470K 5% 1/10W
R322	1-216-113-00	RES, CHIP	470K 5% 1/10W
R323	1-216-037-00	RES, CHIP	330 5% 1/10W
R330	1-216-295-91	SHORT	0
R333	1-216-295-91	SHORT	0
R351	1-219-742-11	CARBON	47 5% 1/2W
R361	1-215-394-00	METAL	75 1% 1/4W

SPARK GAP

SG001△	1-519-422-11	GAP, SPARK
SG002△	1-519-421-11	GAP, DISCHARGE
SG101△	1-519-421-11	GAP, DISCHARGE
SG201△	1-519-421-11	GAP, DISCHARGE
SG301△	1-519-421-11	GAP, DISCHARGE

CRYSTAL

X001	1-781-472-21	VIBRATOR, CERAMIC
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*** A-1346-921-B D BOARD, COMPLETE**

1-533-223-11	CLIP, FUSE
4-382-854-01	SCREW (M3X8), P, SW (+)
4-382-854-11	SCREW (M3X10), P, SW (+)
4-382-854-21	SCREW (M3X14), P, SW (+)
7-685-881-09	SCREW +BVTT 4X8 (S)

CAPACITOR

C401	1-128-730-91	ELECT	470µF	20%	25V
C402	1-106-228-00	MYLAR	0.22µF	10%	100V
C403	1-128-749-91	ELECT	220µF	20%	50V
C404	1-128-730-91	ELECT	470µF	20%	25V
C406	1-137-366-11	MYLAR	0.0022µF	5%	50V
C407	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C409	1-126-968-11	ELECT	100µF	20%	50V
C500	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C501	1-163-038-91	CERAMIC CHIP	0.1µF		25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C503	1-137-370-11	MYLAR	0.01 μ F 5% 50V	C555	1-137-194-81	MYLAR	0.47 μ F 5% 50V
C504	1-137-368-11	MYLAR	0.0047 μ F 5% 50V	C556	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C505	1-128-729-91	ELECT	330 μ F 20% 25V	C557	1-126-935-11	ELECT	470 μ F 20% 16V
C506	1-127-810-51	ELECT MELF	22 μ F 20% 250V	C558	1-163-007-11	CERAMIC CHIP	680pF 10% 50V
C507	1-136-187-11	MYLAR	0.047 μ F 10% 250V	C559	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C508	1-117-959-11	FILM	4700pF 3% 1.8KV	C560	1-109-982-11	CERAMIC CHIP	1 μ F 10% 10V
C509	1-107-444-11	CERAMIC	100pF 5% 2KV	C562	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
C510	1-136-684-51	MYLAR	0.0022 μ F 10% 100V	C563	1-113-340-11	ELECT	47 μ F 20% 25V
C511	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C564	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C512	1-102-114-00	CERAMIC	470pF 10% 50V	C565	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C513	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C608	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C514	1-137-368-11	MYLAR	0.0047 μ F 5% 50V	C609 \triangle	1-117-703-11	CERAMIC	0.0047 μ F 20% 250V
C515	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C610	1-117-769-91	CERAMIC	680pF 10% 2KV
C516	1-126-382-11	ELECT	100 μ F 20% 16V	C611	1-113-608-11	ELECT(BLOCK)	470 μ F 20% 400V
C517	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C612	1-117-953-91	FILM	0.033 μ F 5% 400V
C518	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C613	1-104-664-11	ELECT	47 μ F 20% 25V
C520	1-163-024-00	CERAMIC CHIP	0.018 μ F 10% 50V	C614	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C521	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V	C615	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C522	1-126-965-11	ELECT	22 μ F 20% 50V	C616	1-102-228-00	CERAMIC	470pF 10% 500V
C523	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C617	1-117-769-91	CERAMIC	680pF 10% 2KV
C524	1-126-382-11	ELECT	100 μ F 20% 16V	C618	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C525	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C619	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V
C527	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V	C620	1-128-551-11	ELECT	22 μ F 20% 25V
C528	1-130-489-00	MYLAR	0.033 μ F 5% 50V	C621	1-131-723-21	ELECT(BLOCK)	220 μ F 20% 250V
C529	1-137-370-11	MYLAR	0.01 μ F 5% 50V	C622	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C530	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C623	1-107-933-11	ELECT	100 μ F 20% 100V
C531	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C624	1-104-666-11	ELECT	220 μ F 20% 25V
C532	1-107-906-11	ELECT	10 μ F 20% 50V	C625	1-115-789-11	ELECT	0.001F 20% 25V
C533	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V	C626	1-115-791-11	ELECT	0.0018F 20% 25V
C534	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C627	1-115-789-11	ELECT	0.001F 20% 25V
C535	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C628	1-107-890-11	ELECT	2200 μ F 20% 25V
C536	1-107-665-11	ELECT	0.47 μ F 20% 400V	C629	1-126-935-11	ELECT	470 μ F 20% 16V
C537	1-107-770-11	FILM	0.16 μ F 3% 400V	C630	1-126-935-11	ELECT	470 μ F 20% 16V
C538	1-107-651-11	ELECT	4.7 μ F 20% 250V	C631	1-128-526-11	ELECT	100 μ F 20% 25V
C539	1-117-673-11	FILM	1.5 μ F 5% 250V	C632	1-104-653-11	ELECT	220 μ F 20% 16V
C540	1-107-888-11	ELECT	47 μ F 20% 25V	C633	1-126-934-11	ELECT	220 μ F 20% 10V
C541	1-109-844-11	FILM	0.68 μ F 5% 250V	C634	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C542	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C635	1-126-965-11	ELECT	22 μ F 20% 50V
C543	1-117-665-11	FILM	0.33 μ F 5% 250V	C636 \triangle	1-113-900-11	CERAMIC	470pF 10% 250V
C544	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C637 \triangle	1-113-900-11	CERAMIC	470pF 10% 250V
C545	1-117-661-21	FILM	0.15 μ F 5% 250V	C638 \triangle	1-104-708-11	MYLAR	0.47 μ F 20% 250V
C546	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C639 \triangle	1-104-708-11	MYLAR	0.47 μ F 20% 250V
C547	1-119-860-11	FILM	0.082 μ F 5% 250V	C640	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C548	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C641	1-163-007-11	CERAMIC CHIP	680pF 10% 50V
C549	1-117-953-91	FILM	0.033 μ F 5% 400V	C642	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V
C550	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C644	1-136-187-11	MYLAR	0.047 μ F 10% 250V
C551	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C645	1-126-934-11	ELECT	220 μ F 20% 16V
C553	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C646	1-107-882-91	ELECT	100 μ F 20% 16V
C554	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C647	1-107-882-91	ELECT	100 μ F 20% 16V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1003*	1-564-515-11	PLUG, CONNECTOR 12P		D634	8-719-991-33	DIODE 1SS133T-77	
CN1004*	1-564-509-11	PLUG, CONNECTOR 6P		D635	8-719-991-33	DIODE 1SS133T-77	
DIODE				D701	8-719-991-33	DIODE 1SS133T-77	
D401	8-719-979-58	DIODE EGP10D		D702	8-719-991-33	DIODE 1SS133T-77	
D402	8-719-158-15	DIODE RD5.6SB		D703	8-719-991-33	DIODE 1SS133T-77	
D405	8-719-991-33	DIODE 1SS133T-77		D705	8-719-158-49	DIODE RD12SB2	
D501	8-719-110-47	DIODE RD18ESB		D901	8-719-073-01	DIODE MA111-(K8).S0	
D502	8-719-981-00	DIODE ERC81-004		D903	8-719-073-01	DIODE MA111-(K8).S0	
D503	8-719-110-47	DIODE RD18ESB		D904	8-719-073-01	DIODE MA111-(K8).S0	
D504	8-719-061-21	DIODE FMQ-G5FMS		D906	8-719-978-65	DIODE DTZ-TT11-15B	
D505	8-719-052-86	DIODE D2L40-TA		D907	8-719-052-86	DIODE D2L40-TA	
D506	8-719-976-96	DIODE DTZ4.7C		D908	8-719-073-01	DIODE MA111-(K8).S0	
D507	8-719-073-01	DIODE MA111-(K8).S0		D909	8-719-978-65	DIODE DTZ-TT11-15B	
D508	8-719-073-01	DIODE MA111-(K8).S0		D910	8-719-028-72	DIODE RGP02-17EL-6433	
D509	8-719-073-01	DIODE MA111-(K8).S0		D911	8-719-028-72	DIODE RGP02-17EL-6433	
D510	8-719-073-01	DIODE MA111-(K8).S0		D912	8-719-110-46	DIODE RD16ESB3	
D511	8-719-073-01	DIODE MA111-(K8).S0		D913	8-719-110-46	DIODE RD16ESB3	
D512	8-719-073-01	DIODE MA111-(K8).S0		D914	8-719-970-83	DIODE HSS82	
D514	8-719-109-81	DIODE RD4.7ESB2		D915	8-719-109-85	DIODE RD5.1ESB2	
D515	8-719-073-01	DIODE MA111-(K8).S0		D916	8-719-158-49	DIODE RD12SB2	
D516	8-719-951-30	DIODE ERA91-02		D917	8-719-929-15	DIODE HZS9.1NB2	
D517	8-719-978-65	DIODE DTZ-TT11-15B		D920	8-719-158-15	DIODE RD5.6SB	
D518	8-719-110-17	DIODE RD10ESB2		D921	8-719-158-15	DIODE RD5.6SB	
D519	8-719-976-96	DIODE DTZ4.7C		D1001	8-719-158-15	DIODE RD5.6SB	
D608	8-719-991-33	DIODE 1SS133T-77		D1003	1-218-772-11	METAL CHIP 680K 0.50% 1/10W	
D609	8-719-053-19	DIODE UF4007G23		D1007	8-719-158-15	DIODE RD5.6SB	
D610	8-719-921-40	DIODE MTZJ-4.7C		D1008	8-719-158-15	DIODE RD5.6SB	
D611	8-719-053-19	DIODE UF4007G23		D1009	8-719-158-15	DIODE RD5.6SB	
D612	8-719-110-49	DIODE RD18ESB2		D1010	8-719-158-15	DIODE RD5.6SB	
D613	8-719-300-76	DIODE RH-1A		D1011	8-719-158-15	DIODE RD5.6SB	
D614	8-719-067-68	DIODE FMC-26UA		D1012	8-719-158-15	DIODE RD5.6SB	
D615	8-719-053-19	DIODE UF4007G23		D1013	8-719-158-15	DIODE RD5.6SB	
D616	8-719-076-20	DIODE BT149G-412-OT359		D1014	8-719-158-15	DIODE RD5.6SB	
D617	8-719-991-33	DIODE 1SS133T-77		D1018	8-719-073-01	DIODE MA111-(K8).S0	
D618	8-719-069-63	DIODE ERB38-06V1		D1021	8-719-062-51	DIODE 1PS226-115	
D619	8-719-058-38	DIODE FMN-G12S		D1022	8-719-062-51	DIODE 1PS226-115	
D620	8-719-510-41	DIODE D10SC9M		D1024	8-719-073-01	DIODE MA111-(K8).S0	
D621	8-719-979-58	DIODE EGP10D		D1025	8-719-158-15	DIODE RD5.6SB	
D622	8-719-074-79	DIODE YG911S2R		FUSE			
D623	8-719-979-58	DIODE EGP10D		F601 \triangle	1-576-233-11	FUSE (H.B.C.)	
D624	8-719-979-58	DIODE EGP10D		FERRITE BEAD			
D625 \triangle	8-719-510-53	DIODE D4SB60L		FB501	1-412-911-11	FERRITE	0 μ H
D626	8-719-991-33	DIODE 1SS133T-77		FB502	1-543-960-22	FERRITE	0 μ H
D627	8-719-110-08	DIODE RD8.2ESB2		FB602 \triangle	1-410-397-21	FERRITE	1.1 μ H
D628	8-719-991-33	DIODE 1SS133T-77		FB901	1-412-911-11	FERRITE	0 μ H
D629	8-719-073-01	DIODE MA111-(K8).S0					
D630	8-719-110-41	DIODE RD15ESB2					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
FB1000	1-216-295-91	SHORT	0	JR027	1-216-295-91	SHORT	0
FB1001	1-216-025-91	RES, CHIP	100 5% 1/10W	JR028	1-216-295-91	SHORT	0
FB1002	1-216-025-91	RES, CHIP	100 5% 1/10W	JR029	1-216-295-91	SHORT	0
FB1004	1-216-295-91	SHORT	0	JR030	1-216-296-91	SHORT	0
				JR031	1-216-295-91	SHORT	0
IC				JR032	1-216-296-91	SHORT	0
IC401	8-759-593-28	IC LA78040		JR033	1-216-296-91	SHORT	0
IC501	8-759-585-82	IC BA9759F-E2		JR034	1-216-296-91	SHORT	0
IC502	8-759-803-42	IC LA6500-FA		JR035	1-216-296-91	SHORT	0
IC503	8-759-100-96	IC UPC4558G2		JR036	1-216-295-91	SHORT	0
IC603 \triangle	8-759-594-75	IC TEA1504/N2		JR037	1-216-296-91	SHORT	0
IC604	8-759-637-83	IC PQ12RD8S		JR038	1-216-296-91	SHORT	0
IC605	8-759-496-15	IC BA05ST-V5		JR039	1-216-296-91	SHORT	0
IC607 \triangle	8-749-016-35	IC TLP621D4-Y-LF2T		JR040	1-216-295-91	SHORT	0
IC608	8-759-586-17	IC TL1431CZ-AP		JR042	1-216-296-91	SHORT	0
IC609	8-759-450-47	IC BA05T		JR046	1-216-296-91	SHORT	0
IC610	8-759-592-79	IC BA00AST-V5		JR050	1-216-295-91	SHORT	0
IC701	8-759-822-38	IC LA6510		JR051	1-216-296-91	SHORT	0
IC702	8-749-015-00	IC STK391-110		JR052	1-216-296-91	SHORT	0
IC703	8-759-803-42	IC LA6500-FA		JR602	1-216-295-91	SHORT	0
IC901 \triangle	8-759-585-81	IC BA9758FS-E2		JR603	1-216-295-91	SHORT	0
IC1001	8-759-639-51	IC CXD9523S/JCJ		JR604	1-216-295-91	SHORT	0
IC1003	8-759-420-77	IC PST574CMT-T1		JR606	1-216-295-91	SHORT	0
IC1005	8-759-641-86	IC BR24C16F-E2					
CHIP CONDUCTOR				COIL			
JR43	1-216-296-91	SHORT	0	L501	1-412-541-21	INDUCTOR 220 μ H	
JR45	1-216-295-91	SHORT	0	L502	1-419-299-11	COIL, HORIZONTAL LINEARITY	
JR002	1-216-296-91	SHORT	0	L503	1-419-298-11	COIL, HORIZONTAL CENTER	
JR004	1-216-296-91	SHORT	0	L504	1-406-675-11	INDUCTOR 4.7mH	
JR005	1-216-295-91	SHORT	0	L505	1-406-675-11	INDUCTOR 4.7mH	
JR006	1-216-296-91	SHORT	0	L506	1-406-675-11	INDUCTOR 4.7mH	
JR007	1-216-295-91	SHORT	0	L507	1-412-537-31	INDUCTOR 100 μ H	
JR008	1-216-296-91	SHORT	0	L603	1-412-537-31	INDUCTOR 100 μ H	
JR010	1-216-296-91	SHORT	0	L604	1-406-665-11	INDUCTOR 100 μ H	
JR011	1-216-296-91	SHORT	0	L606	1-406-665-11	INDUCTOR 100 μ H	
JR015	1-216-296-91	SHORT	0	L607	1-414-158-11	INDUCTOR 2.2 μ H	
JR016	1-216-296-91	SHORT	0	L608	1-414-488-21	INDUCTOR 1.5 μ H	
JR017	1-216-296-91	SHORT	0	L901	1-412-537-31	INDUCTOR 100 μ H	
JR019	1-216-296-91	SHORT	0	L902	1-406-659-11	INDUCTOR 10 μ H	
JR020	1-216-296-91	SHORT	0				
JR021	1-216-296-91	SHORT	0	FILTER			
JR022	1-216-295-91	SHORT	0	LF602 \triangle	1-429-180-11	TRANSFORMER, LINE FILTER	
JR023	1-216-296-91	SHORT	0				
JR024	1-216-295-91	SHORT	0	TRANSISTOR			
JR025	1-216-295-91	SHORT	0	Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR026	1-216-296-91	SHORT	0				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q502	8-729-901-87	TRANSISTOR 2SC2411K-CQ		R502	1-216-025-91	RES, CHIP	100 5% 1/10W
Q503	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR		R503	1-216-033-00	RES, CHIP	220 5% 1/10W
Q504	8-729-042-34	TRANSISTOR IRFU110A		R504	1-216-073-00	RES, CHIP	10K 5% 1/10W
Q505	8-729-050-12	TRANSISTOR 2SC5445(LBSONY1)		R505	1-216-081-00	RES, CHIP	22K 5% 1/10W
Q506	8-729-043-63	TRANSISTOR IRFI9634G-LF35		R506	1-247-807-31	CARBON	100 5% 1/4W
Q507	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R507	1-247-863-91	CARBON	22K 5% 1/4W
Q508	8-729-901-87	TRANSISTOR 2SC2411K-CQ		R508	1-215-861-00	METAL OXIDE	47 5% 1W F
Q509	8-729-901-97	TRANSISTOR 2SA1036K-Q		R509	1-249-381-11	CARBON	1 5% 1/4W F
Q510	8-729-119-78	TRANSISTOR 2SC2785-HFE		R510	1-219-677-11	METAL	1.8 5% 10W
Q511	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R511 \triangle	1-249-377-11	CARBON	0.47 5% 1/4W F
Q512	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R512	1-214-842-11	METAL	120 1% 1/2W
Q513	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R513	1-216-423-11	METAL OXIDE	27 5% 1W F
Q514	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R514	1-249-397-11	CARBON	22 5% 1/4W F
Q515	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R515	1-249-425-11	CARBON	4.7K 5% 1/4W
Q516	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R516	1-249-425-11	CARBON	4.7K 5% 1/4W
Q517	8-729-140-50	TRANSISTOR 2SC3209LK		R517	1-216-089-91	RES, CHIP	47K 5% 1/10W
Q519	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R518	1-216-033-00	RES, CHIP	220 5% 1/10W
Q605	8-729-050-14	TRANSISTOR 2SK3265(LB2SONY)		R519	1-216-025-91	RES, CHIP	100 5% 1/10W
Q606	8-729-043-27	TRANSISTOR PDTC114EK-115		R520	1-216-033-00	RES, CHIP	220 5% 1/10W
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE		R521	1-247-807-31	CARBON	100 5% 1/4W
Q608	8-729-029-92	TRANSISTOR DTC143ESA		R522	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
Q609	8-729-119-78	TRANSISTOR 2SC2785-HFE		R523	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
Q701	8-729-800-32	TRANSISTOR 2SC2362K-G		R524	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
Q702	8-729-178-43	TRANSISTOR 2SC2784-E		R525	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
Q703	8-729-204-91	TRANSISTOR 2SA1049-GR		R526	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
Q704	8-729-207-82	TRANSISTOR 2SC3421-Y		R527	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
Q705	8-729-207-89	TRANSISTOR 2SA1358-Y		R528	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
Q706	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)		R529	1-216-099-00	RES, CHIP	120K 5% 1/10W
Q901	8-729-043-63	TRANSISTOR IRFI9634G-LF35		R530	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
Q902	8-729-041-45	TRANSISTOR FS5KM-16A		R531	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
Q903	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R532	1-216-073-00	RES, CHIP	10K 5% 1/10W
Q904	8-729-901-97	TRANSISTOR 2SA1036K-Q		R533	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
RESISTOR				R535	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R401	1-249-383-11	CARBON	1.5 5% 1/4W F	R536	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R402	1-215-866-11	METAL OXIDE	330 5% 1W F	R537	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R403	1-214-796-00	METAL	1.5 1% 1/2W	R538	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R404	1-215-449-00	METAL	15K 1% 1/4W	R539	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R405	1-214-796-00	METAL	1.5 1% 1/2W	R540	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R406	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R541	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R407	1-249-397-11	CARBON	22 5% 1/4W F	R542	1-214-842-11	METAL	120 1% 1/2W
R408	1-216-081-00	RES, CHIP	22K 5% 1/10W	R543	1-214-842-11	METAL	120 1% 1/2W
R409	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R544	1-249-393-11	CARBON	10 5% 1/4W F
R410	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R545	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R416	1-216-073-00	RES, CHIP	10K 5% 1/10W	R546	1-215-909-11	METAL OXIDE	47 5% 3W F
R417	1-216-113-00	RES, CHIP	470K 5% 1/10W	R547	1-215-387-00	METAL	39 1% 1/4W
R418	1-216-105-91	RES, CHIP	220K 5% 1/10W	R548	1-260-318-71	CARBON	150 5% 1/2W
R501	1-216-049-91	RES, CHIP	1K 5% 1/10W	R549	1-260-314-11	CARBON	68 5% 1/2W
				R550	1-247-903-00	CARBON	1M 5% 1/4W
				R552	1-249-437-11	CARBON	47K 5% 1/4W

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R553	1-249-437-11	CARBON	47K 5% 1/4W	R643	1-247-791-91	CARBON	22 5% 1/4W
R555	1-249-437-11	CARBON	47K 5% 1/4W	R644	1-247-807-31	CARBON	100 5% 1/4W
R557	1-249-437-11	CARBON	47K 5% 1/4W	R645 \triangle	1-211-874-71	RES, FUSE	0.12 10% 1/2W
R559	1-249-437-11	CARBON	47K 5% 1/4W	R648 \triangle	1-211-874-71	RES, FUSE	0.12 10% 1/2W
R561	1-249-437-11	CARBON	47K 5% 1/4W	R649 \triangle	1-211-874-71	RES, FUSE	0.12 10% 1/2W
R563	1-249-405-11	CARBON	100 5% 1/4W F	R650 \triangle	1-211-874-71	RES, FUSE	0.12 10% 1/2W
R564	1-249-405-11	CARBON	100 5% 1/4W F	R651	1-249-441-11	CARBON	100K 5% 1/4W
R565	1-249-405-11	CARBON	100 5% 1/4W F	R652	1-215-923-00	METAL OXIDE	10K 5% 3W F
R566	1-249-405-11	CARBON	100 5% 1/4W F	R653	1-215-902-11	METAL OXIDE	47K 5% 2W F
R567	1-249-405-11	CARBON	100 5% 1/4W F	R656	1-215-467-00	METAL	82K 1% 1/4W
R568	1-249-405-11	CARBON	100 5% 1/4W F	R657	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R569	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R658	1-216-346-00	METAL OXIDE	0.56 5% 1W F
R570	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W	R659	1-249-425-11	CARBON	4.7K 5% 1/4W
R572	1-249-429-11	CARBON	10K 5% 1/4W	R660	1-215-465-00	METAL	68K 1% 1/4W
R573	1-216-385-11	METAL OXIDE	0.47 5% 3W F	R661	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R574	1-249-404-00	CARBON	82 5% 1/4W	R662	1-215-467-00	METAL	82K 1% 1/4W
R575	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R664	1-215-902-11	METAL OXIDE	47K 5% 2W F
R576	1-216-097-91	RES, CHIP	100K 5% 1/10W	R671	1-216-073-00	RES, CHIP	10K 5% 1/10W
R577	1-216-049-91	RES, CHIP	1K 5% 1/10W	R672	1-249-407-11	CARBON	150 5% 1/4W
R579	1-216-025-91	RES, CHIP	100 5% 1/10W	R673	1-216-073-00	RES, CHIP	10K 5% 1/10W
R580	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R674 \triangle	1-220-827-91	REGISTER	560K 5% 1/2W
R581	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	R675	1-249-403-11	CARBON	68 5% 1/4W
R582	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R676	1-215-467-00	METAL	82K 1% 1/4W
R583	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R677	1-216-025-91	RES, CHIP	100 5% 1/10W
R584	1-216-473-11	METAL OXIDE	56 5% 3W F	R678	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R585	1-216-381-11	METAL OXIDE	0.22 5% 3W F	R679	1-215-467-00	METAL	82K 1% 1/4W
R586	1-260-125-11	CARBON	150K 5% 1/2W	R680	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R587	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R681	1-215-466-00	METAL	75K 1% 1/4W
R601	1-249-425-11	CARBON	4.7K 5% 1/4W	R682	1-215-463-00	METAL	56K 1% 1/4W
R604	1-205-997-11	CEMENTED	2.2 5% 10W	R684	1-216-009-91	RES, CHIP	22 5% 1/10W
R605	1-240-265-11	CMT,MELF	2.7 5% 10W	R685	1-216-073-00	RES, CHIP	10K 5% 1/10W
R615	1-216-615-91	METAL CHIP	33 0.50% 1/10W	R686	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R625	1-202-933-61	FUSIBLE	0.1 10% 1/2W	R687	1-216-689-11	RES, CHIP	39K 5% 1/10W
R626	1-215-927-00	METAL OXIDE	47K 5% 3W F	R689	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
R627	1-219-513-11	CARBON	4.7M 5% 1/2W	R690	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W
R628	1-216-115-00	RES, CHIP	560K 5% 1/10W	R691	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R629	1-216-119-00	RES, CHIP	820K 5% 1/10W	R692	1-216-081-00	RES, CHIP	22K 5% 1/10W
R630	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R693	1-219-513-11	CARBON	4.7M 5% 1/2W
R631	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R697	1-215-927-00	METAL OXIDE	47K 5% 3W F
R632	1-218-758-11	METAL CHIP	180K 0.50% 1/10W	R698	1-215-927-00	METAL OXIDE	47K 5% 3W F
R633	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R700	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R635	1-218-754-11	METAL CHIP	120K 0.50% 1/10W	R701	1-249-385-11	CARBON	2.2 5% 1/4W
R636	1-249-397-11	CARBON	22 5% 1/4W F	R703	1-249-385-11	CARBON	2.2 5% 1/4W
R637	1-215-893-11	METAL OXIDE	1.5K 5% 2W F	R705	1-215-863-11	METAL OXIDE	100 5% 1W F
R638	1-215-893-11	METAL OXIDE	1.5K 5% 2W F	R706	1-216-423-11	METAL OXIDE	27 5% 1W F
R639	1-216-609-11	METAL CHIP	18 0.50% 1/10W	R707	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R640	1-216-344-00	METAL OXIDE	0.39 5% 1W F	R708	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R641	1-216-345-11	METAL OXIDE	0.47 5% 1W F	R709	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R642	1-249-381-11	CARBON	1 5% 1/4W F	R710	1-216-691-11	METAL CHIP	47K 0.50% 1/10W

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R711	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R907	1-216-295-91	SHORT	0
R712	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R908	1-249-425-11	CARBON	4.7K 5% 1/4W
R713	1-215-858-00	METAL OXIDE	15 5% 1W F	R909	1-215-913-11	METAL OXIDE	220 5% 3W F
R714	1-215-863-11	METAL OXIDE	100 5% 1W F	R910	1-215-913-11	METAL OXIDE	220 5% 3W F
R715	1-216-353-00	METAL OXIDE	2.2 5% 1W F	R911	1-249-397-11	CARBON	22 5% 1/4W F
R716	1-249-377-11	CARBON	0.47 5% 1/4W F	R912	1-216-049-91	RES, CHIP	1K 5% 1/10W
R717	1-249-377-11	CARBON	0.47 5% 1/4W F	R914	1-216-041-00	RES, CHIP	470 5% 1/10W
R718	1-216-426-11	METAL OXIDE	82 5% 1W F	R915	1-249-397-11	CARBON	22 5% 1/4W F
R719	1-216-369-00	METAL OXIDE	1 5% 2W F	R916	1-249-385-11	CARBON	2.2 5% 1/4W F
R720	1-216-295-91	SHORT	0	R917	1-249-385-11	CARBON	2.2 5% 1/4W F
R721	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R918	1-214-964-00	METAL	1M 1% 1/4W
R722	1-216-426-11	METAL OXIDE	82 5% 1W F	R919	1-216-073-00	RES, CHIP	10K 5% 1/10W
R723	1-216-295-91	SHORT	0	R920	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R724	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R921	1-216-049-91	RES, CHIP	1K 5% 1/10W
R725	1-216-369-00	METAL OXIDE	1 5% 2W F	R923	1-215-469-00	METAL	100K 1% 1/4W
R726	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R924	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R727	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W	R925	1-218-762-11	METAL CHIP	270K 0.50% 1/10W
R728	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R926	1-216-073-00	RES, CHIP	10K 5% 1/10W
R729	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R927	1-220-823-91	CARBON	6.8K 5% 1/2W
R730	1-216-073-00	RES, CHIP	10K 5% 1/10W	R928	1-220-825-11	CARBON	330K 5% 1/2W
R731	1-216-081-00	RES, CHIP	22K 5% 1/10W	R929	1-216-089-91	RES, CHIP	47K 5% 1/10W
R732	1-249-383-11	CARBON	1.5 5% 1/4W F	R930	1-219-748-11	CARBON	4.7K 5% 1/2W
R733	1-215-859-00	METAL OXIDE	22 5% 1W F	R931	1-219-748-11	CARBON	4.7K 5% 1/2W
R734	1-215-864-00	METAL OXIDE	150 5% 1W F	R932	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R735	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R933	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R736	1-216-049-91	RES, CHIP	1K 5% 1/10W	R934 \triangle	1-249-377-11	CARBON	0.47 5% 1/4W F
R737	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1001	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R738	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	R1003	1-216-025-91	RES, CHIP	100 5% 1/10W
R739	1-249-434-11	CARBON	27K 5% 1/4W	R1004	1-216-033-00	RES, CHIP	220 5% 1/10W
R740	1-216-089-91	RES, CHIP	47K 5% 1/10W	R1005	1-247-815-91	CARBON	220 5% 1/4W
R741	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1006	1-216-033-00	RES, CHIP	220 5% 1/10W
R742	1-216-067-00	RES, CHIP	5.6K 5% 1/10W	R1010	1-216-033-00	RES, CHIP	220 5% 1/10W
R743	1-216-037-00	RES, CHIP	330 5% 1/10W	R1011	1-216-049-91	RES, CHIP	1K 5% 1/10W
R744	1-249-413-11	CARBON	470 5% 1/4W F	R1012	1-216-017-91	RES, CHIP	47 5% 1/10W
R745	1-249-389-11	CARBON	4.7 5% 1/4W F	R1013	1-216-017-91	RES, CHIP	47 5% 1/10W
R746	1-249-389-11	CARBON	4.7 5% 1/4W F	R1014	1-216-025-91	RES, CHIP	100 5% 1/10W
R747	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1015	1-216-033-00	RES, CHIP	220 5% 1/10W
R748	1-219-752-11	CARBON	100K 5% 1/2W	R1016	1-216-033-00	RES, CHIP	220 5% 1/10W
R749	1-215-437-00	METAL	4.7K 1% 1/4W	R1017	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R751	1-216-073-00	RES, CHIP	10K 5% 1/10W	R1018	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R752	1-216-085-00	RES, CHIP	33K 5% 1/10W	R1019	1-216-017-91	RES, CHIP	47 5% 1/10W
R753	1-249-393-11	CARBON	10 5% 1/4W F	R1020	1-216-017-91	RES, CHIP	47 5% 1/10W
R754	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1021	1-216-025-91	RES, CHIP	100 5% 1/10W
R755	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R1022	1-216-025-91	RES, CHIP	100 5% 1/10W
R901	1-216-097-91	RES, CHIP	100K 5% 1/10W	R1039	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R902	1-216-089-91	RES, CHIP	47K 5% 1/10W	R1046	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R904	1-216-057-00	RES, CHIP	2.2K 5% 1/10W	R1047	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R905	1-216-049-91	RES, CHIP	1K 5% 1/10W	R1048	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R906	1-216-699-91	METAL CHIP	100K 0.50% 1/10W	R1049	1-216-065-91	RES, CHIP	4.7K 5% 1/10W



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1050	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R1051	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R1065	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R1070	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R1072	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R1073 Δ	1-216-049-91	RES, CHIP	1K 5% 1/10W
R1074	1-216-049-91	RES, CHIP	1K 5% 1/10W
R1083	1-216-025-91	RES, CHIP	100 5% 1/10W
R1084	1-216-041-00	RES, CHIP	470 5% 1/10W
R1085	1-216-025-91	RES, CHIP	100 5% 1/10W
R1086	1-216-073-00	RES, CHIP	10K 5% 1/10W
R1092	1-216-033-00	RES, CHIP	220 5% 1/10W
R1093	1-216-033-00	RES, CHIP	220 5% 1/10W
R1094	1-216-113-00	RES, CHIP	470K 5% 1/10W
R1095	1-216-073-00	RES, CHIP	10K 5% 1/10W
R1096	1-216-073-00	RES, CHIP	10K 5% 1/10W
R1097	1-216-077-91	RES, CHIP	15K 5% 1/10W
R1098	1-216-077-91	RES, CHIP	15K 5% 1/10W
R1099	1-216-033-00	RES, CHIP	220 5% 1/10W
R1104	1-216-065-91	RES, CHIP	4.7K 5% 1/10W

VARIABLE RESISTOR

\boxtimes RV901 Δ 1-241-767-21 RES, ADJ, CERMET 100K
3-710-578-01 COVER, VOLUME, 6 MOLD (for RV901)

RELAY

RY601 Δ 1-755-067-21 RELAY, AC POWER
RY602 Δ 1-755-318-11 RELAY, POWER

SWITCH

S602 1-771-757-11 SWITCH, PUSH (1 KEY)

SPARK GAP

SG901 1-517-499-21 GAP, SPARK
SG902 1-519-422-11 GAP, SPARK
SG903 1-519-422-11 GAP, SPARK

TRANSFORMER

T501 1-433-628-11 TRANSFORMER, FERRITE (HDT)
T502 1-411-594-41 INDUCTOR 5mH
T503 1-435-140-11 TRANSFORMER, FERRITE (LCT)
T504 1-431-413-21 TRANSFORMER, FERRITE (HST)
T602 Δ 1-435-141-11 TRANSFORMER, CONVERTER (SRT)

REF.NO.	PART NO.	DESCRIPTION	REMARK
T701	1-435-129-11	TRANSFORMER, FERRITE (DFT)	
T901 Δ	1-453-317-11	FBT ASSY NX-4700//X4E4	
T902	1-411-567-31	INDUCTOR 500 μ H	

THERMISTOR

TH600 Δ 1-809-260-11 THERMISTOR, POWER
TH601 Δ 1-803-540-11 THERMISTOR

VARISTOR

VA601 Δ 1-801-073-31 VARISTOR TNR14V471K660

CRYSTAL

X1001 1-567-890-11 VIBRATOR, CRYSTAL

H

* A-1372-741-A H BOARD, COMPLETE

CAPACITOR

C2002 1-126-786-11 ELECT 47 μ F 20% 16V

CONNECTOR

CN2001*1-564-523-11 PLUG, CONNECTOR 8P

DIODE

D2001 8-719-064-11 DIODE SPR-325MVW
D2004 8-719-109-89 DIODE RD5.6ESB2
D2005 8-719-970-83 DIODE HSS82
D2006 8-719-970-83 DIODE HSS82
D2007 8-719-970-83 DIODE HSS82

D2008 8-719-970-83 DIODE HSS82

FERRITE BEAD

FB2001 1-412-911-11 FERRITE 0 μ H
FB2002 1-412-911-11 FERRITE 0 μ H
FB2003 1-412-911-11 FERRITE 0 μ H
FB2004 1-412-911-11 FERRITE 0 μ H
FB2005 1-412-911-11 FERRITE 0 μ H



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>TRANSISTOR</u>							
Q2001	8-729-119-76	TRANSISTOR 2SA1175-HFE		C823	1-163-038-91	CERAMIC CHIP 0.1μF	25V
Q2002	8-729-119-76	TRANSISTOR 2SA1175-HFE		C824	1-163-133-00	CERAMIC CHIP 470pF	5% 50V
				C825	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
<u>RESISTOR</u>							
R2001	1-249-422-11	CARBON	2.7K 5% 1/4W	C826	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2002	1-249-429-11	CARBON	10K 5% 1/4W	C827	1-119-941-91	ELECT 470μF	20% 6.3V
R2003	1-249-429-11	CARBON	10K 5% 1/4W	C828	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
R2004	1-215-411-00	METAL	390 1% 1/4W	C829	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R2005	1-215-417-00	METAL	680 1% 1/4W	C830	1-113-340-11	ELECT 47μF	20% 25V
R2006	1-249-411-11	CARBON	330 5% 1/4W	C832	1-131-722-91	ELECT 100μF	20% 6.3V
R2007	1-249-413-11	CARBON	470 5% 1/4W	C833	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R2008	1-249-415-11	CARBON	680 5% 1/4W	C835	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R2009	1-249-417-11	CARBON	1K 5% 1/4W	C837	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R2011	1-249-421-11	CARBON	2.2K 5% 1/4W	C838	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R2012	1-249-429-11	CARBON	10K 5% 1/4W	C839	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
R2013	1-249-425-11	CARBON	4.7K 5% 1/4W	C840	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
				C841	1-163-023-00	CERAMIC CHIP 0.015μF	10% 50V
<u>SWITCH</u>				<u>CONNECTOR</u>			
S2002	1-762-196-21	SWITCH, TACTILE		CN801	1-793-585-11	PIN, CONNECTOR (PC BOARD) 14P	
S2003	1-762-196-21	SWITCH, TACTILE		CN802	1-793-586-11	PIN, CONNECTOR (PC BOARD) 14P	
S2004	1-762-196-21	SWITCH, TACTILE		<u>DIODE</u>			
S2005	1-762-196-21	SWITCH, TACTILE		D802	8-719-049-09	DIODE 1SS367-T3SONY	
S2006	1-762-196-21	SWITCH, TACTILE		<u>FERRITE BEAD</u>			
S2007	1-762-196-21	SWITCH, TACTILE		FB801	1-543-960-22	FERRITE 0μH	
S2008	1-762-196-21	SWITCH, TACTILE		FB802	1-216-295-91	SHORT 0	
				FB809	1-543-963-22	FERRITE 0μH	
				FB810	1-543-963-22	FERRITE 0μH	
				<u>IC</u>			
<u>CAPACITOR</u>				IC801	8-759-589-56	IC CXD9517Q	
C801	1-113-340-11	ELECT	47μF 20% 25V	IC802	8-759-569-45	IC LD1117S33TR	
C803	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	IC803	8-759-502-82	IC LM324M	
C809	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	<u>CHIP CONDUCTOR</u>			
C810	1-163-038-91	CERAMIC CHIP	0.1μF 25V	JR801	1-216-295-91	SHORT 0	
C811	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	JR802	1-216-295-91	SHORT 0	
C812	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C813	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C814	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				
C817	1-119-941-91	ELECT	470μF 20% 6.3V				
C818	1-113-340-11	ELECT	47μF 20% 25V				
C819	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V				
C820	1-119-941-91	ELECT	470μF 20% 6.3V				
C821	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C822	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V				



* A-1390-997-A N BOARD, COMPLETE

N

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>TRANSISTOR</u>				R842	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R843	1-216-069-00	RES, CHIP	6.8K 5% 1/10W
Q804	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR		R844	1-216-017-91	RES, CHIP	47 5% 1/10W
Q805	8-729-026-50	TRANSISTOR 2SA1037AK-T146-QR		R846	1-216-025-91	RES, CHIP	100 5% 1/10W
<u>RESISTOR</u>				R847	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R801	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R851	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R802	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R852	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R803	1-216-033-00	RES, CHIP	220 5% 1/10W	R853	1-216-049-91	RES, CHIP	1K 5% 1/10W
R804	1-216-033-00	RES, CHIP	220 5% 1/10W	R855	1-216-105-91	RES, CHIP	220K 5% 1/10W
R805	1-216-033-00	RES, CHIP	220 5% 1/10W	R856	1-216-073-00	RES, CHIP	10K 5% 1/10W
R806	1-216-033-00	RES, CHIP	220 5% 1/10W	R857	1-216-049-91	RES, CHIP	1K 5% 1/10W
R807	1-216-033-00	RES, CHIP	220 5% 1/10W	R858	1-216-073-00	RES, CHIP	10K 5% 1/10W
R808	1-216-033-00	RES, CHIP	220 5% 1/10W	R859	1-216-025-91	RES, CHIP	100 5% 1/10W
R809	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R860	1-216-025-91	RES, CHIP	100 5% 1/10W
R810	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R863	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R811	1-216-053-00	RES, CHIP	1.5K 5% 1/10W	R864	1-216-025-91	RES, CHIP	100 5% 1/10W
R812	1-216-049-91	RES, CHIP	1K 5% 1/10W	R866	1-216-049-91	RES, CHIP	1K 5% 1/10W
R813	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R814	1-216-031-00	RES, CHIP	180 5% 1/10W				
R815	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R816	1-218-768-11	METAL CHIP	470K 0.50% 1/10W				
R818	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R819	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R820	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R821	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R822	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R823	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R824	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R825	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R826	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R827	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R828	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R829	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R830	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R831	1-216-033-00	RES, CHIP	220 5% 1/10W				
R832	1-216-025-91	RES, CHIP	100 5% 1/10W				
R833	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R834	1-216-647-11	METAL CHIP	680 0.50% 1/10W				
R835	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R836	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R837	1-216-648-11	METAL CHIP	750 0.50% 1/10W				
R838	1-216-041-00	RES, CHIP	470 5% 1/10W				
R839	1-216-117-00	RES, CHIP	680K 5% 1/10W				
R840	1-216-650-11	METAL CHIP	910 0.50% 1/10W				
R841	1-216-089-91	RES, CHIP	47K 5% 1/10W				

SERVICE MANUAL



US Model
Canadian Model
AEP Model
N.Hemisphere Model
S.Hemisphere Model
Equator Model
Japan Model
Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-2

File this supplement with the service manual.

SUBJECT : ADD ON NH, SH, EQ, J MODEL

PAGE	REF.NO.	PART NO	DESCRIPTION	REMARK
		P991 (NH, SH, EQ, J)		
36	1	X-4037-524-1	BEZEL ASSY	2-5
	7	△ 8-736-408-61 (SH, EQ only)	ITC ASSEMBLY (19TKC-RS1)	
	12	△ X-4560-174-1	FBT ASSY, NX-4700//X4E4	
38	22	* 4-072-443-31	CABINET	
	23	* 4-073-97001	LABEL, INFORMATION	
	28	X-4037-614-1	BASE ASSY, STAND	29-32
	54	* 4-074-496-01	CUSHION ASSY, UPPER	
	56	* 4-074-497-01	CUSHION ASSY, LOWER	
	57	* 4-074-495-01	CARTON, INDIVIDUAL	

SERVICE MANUAL



US Model
Canadian Model
AEP Model
N.Hemisphere Model
S.Hemisphere Model
Equator Model
Japan Model
Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-2

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	23	* 4-073-97001	LABEL, INFORMATION	
	28	X-4037-614-1	BASE ASSY, STAND	29-32
	54	* 4-074-496-01	CUSHION ASSY, UPPER	
	56	* 4-074-497-01	CUSHION ASSY, LOWER	
	57	* 4-074-495-01	CARTON, INDIVIDUAL	

SERVICE MANUAL



US Model
Canadian Model
AEP Model
N.Hemisphere Model
S.Hemisphere Model
Equator Model
Japan Model
Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-2

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SUBJECT : ADD ON NH, SH, EQ, J MODEL

PAGE	REF.NO.	PART NO	DESCRIPTION	REMARK
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36	1	X-4037-524-1	BEZEL ASSY	2-5
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	23	* 4-073-97001	LABEL, INFORMATION	
	28	X-4037-614-1	BASE ASSY, STAND	29-32
	54	* 4-074-496-01	CUSHION ASSY, UPPER	
	56	* 4-074-497-01	CUSHION ASSY, LOWER	
	57	* 4-074-495-01	CARTON, INDIVIDUAL	

SERVICE MANUAL

Self Diagnosis
Supported model

P991

P991

US Model

Canadian Model

AEP Model

Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-3

(For US/Canadian Bridge Model and AEP Model Only)

Subject: New D Block Diagram. New A Board Schematic, Printed Circuit Board. New D Board Schematic, Printed Circuit Board. New N Board Schematic, Printed Circuit Board. New Exploded View. New Electrical Parts List.

File this supplement with the service manual.

TABLE OF CONTENTS

☞ : Modified Portion

<u>Item</u>	<u>Page No.</u>
☞ D Block Diagram	3
☞ A Board Schematic	5
☞ D Board Schematic	9
☞ N Board Schematic	17
☞ Exploded View	19
☞ Electrical Parts List	21

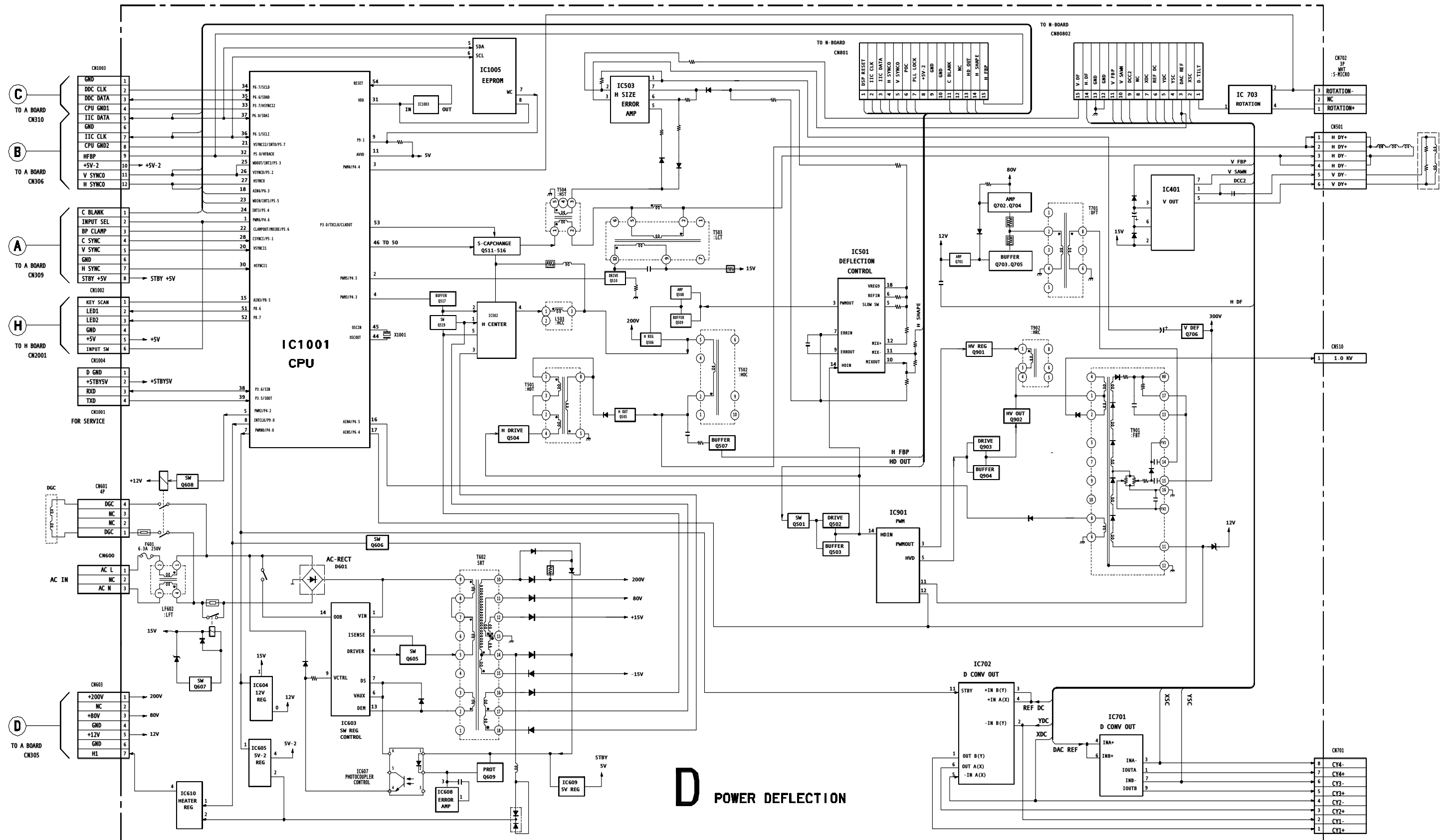
Design and specifications are subject to change without notice.

COLOR MONITOR

DELL®

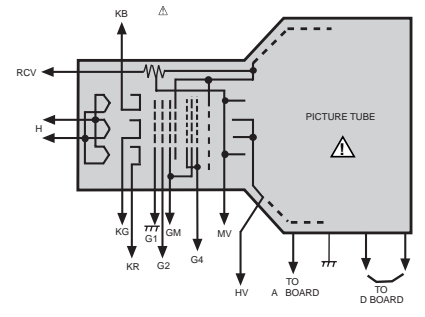
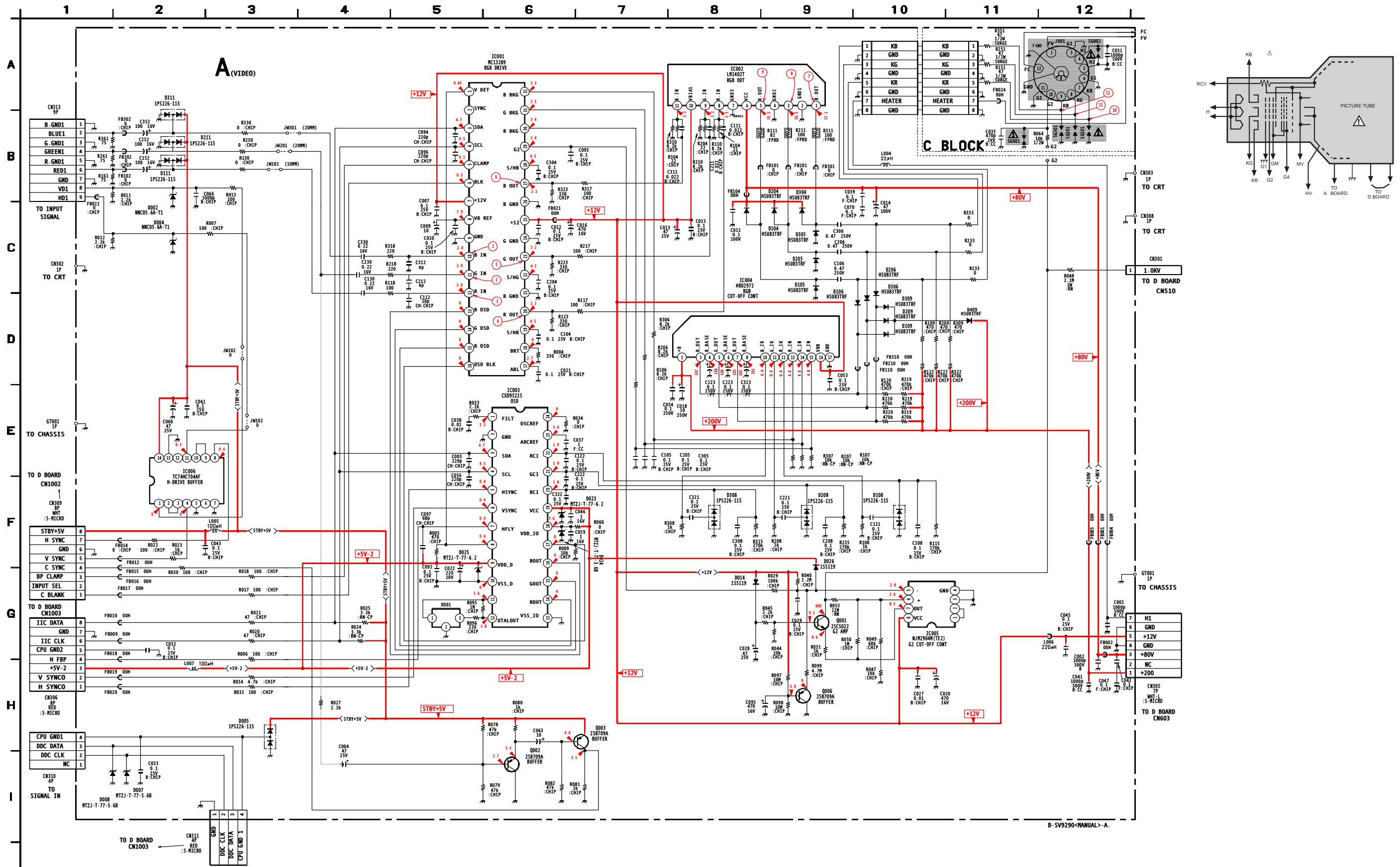
SECTION 5 DIAGRAMS

5.1 BLOCK DIAGRAM

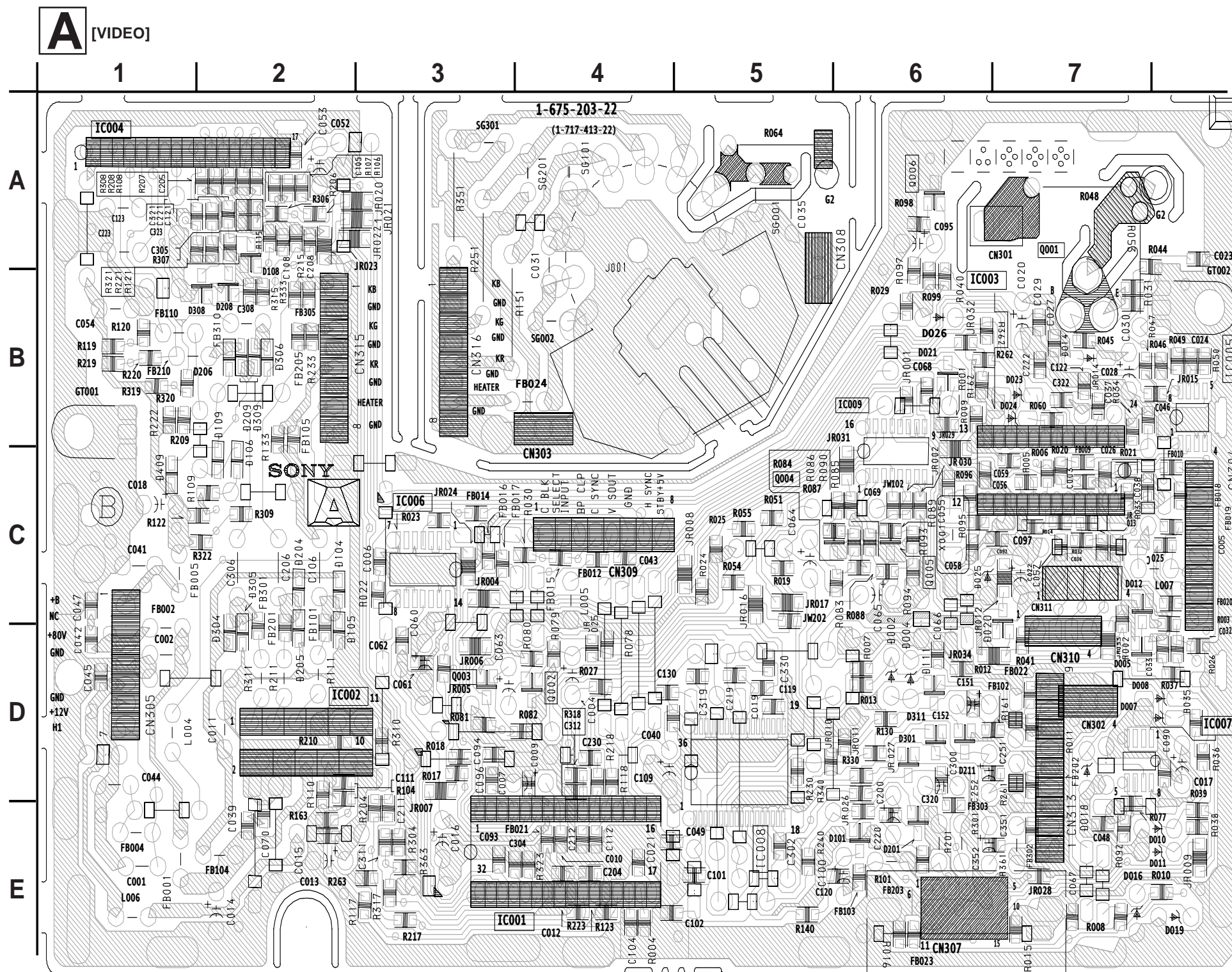


B-5V9290<MANUAL>-BLK.

A Board Schematic Diagram



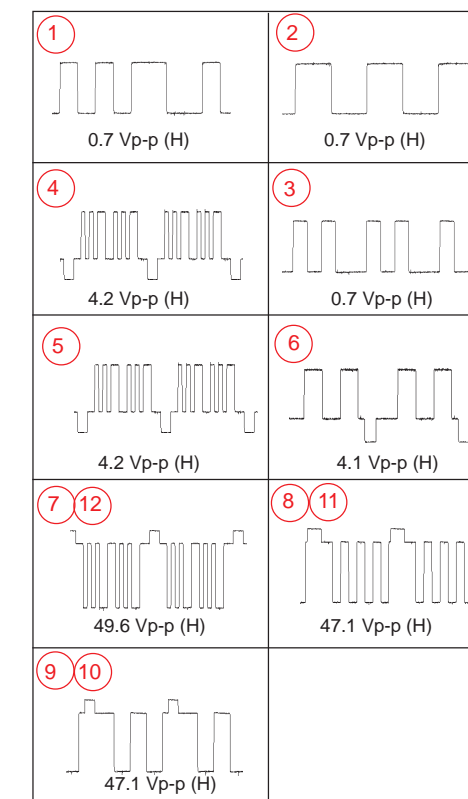
← BLOCK DIAGRAM
A BOARD →



A BOARD LOCATION LIST

DIODE		IC	
D002	D - 6	D209	B - 2
D004	D - 6	D211	D - 6
D005	C - 8	D304	D - 2
D007	D - 7	D305	C - 2
D008	D - 7	D306	B - 2
D014	B - 7	D308	B - 2
D023	B - 7	D309	B - 2
D024	B - 7	D311	D - 6
D025	C - 6	D409	C - 1
D026	B - 6	IC	
D104	C - 2	IC001	E - 3
D105	C - 2	IC002	D - 2
D106	C - 2	IC003	B - 6
D108	B - 2	IC004	A - 1
D109	B - 2	IC005	B - 8
D111	D - 6	IC006	C - 3
D204	C - 2	TRANSISTOR	
D205	C - 2	Q001	A - 7
D206	B - 1	Q002	D - 4
D208	B - 2	Q003	D - 3
		Q006	A - 6

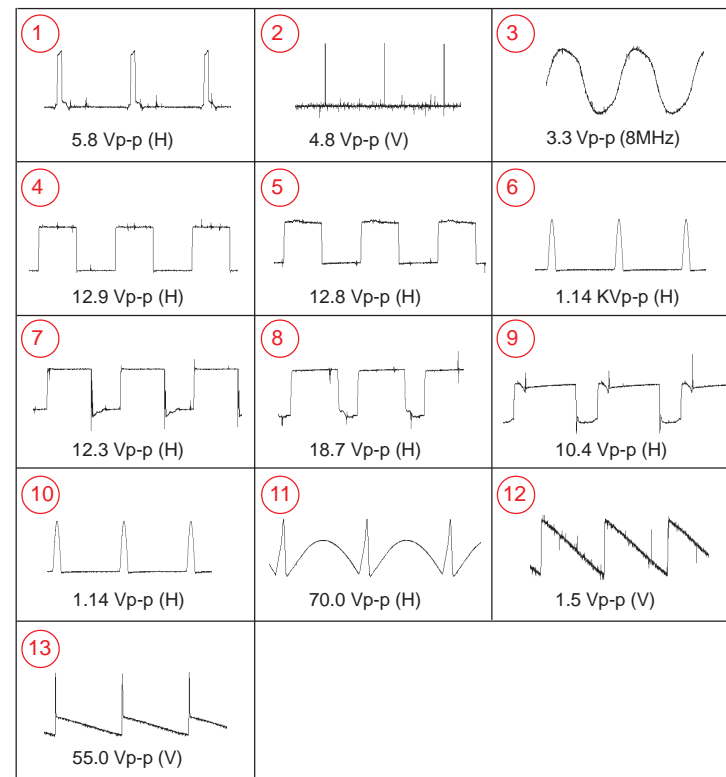
A BOARD WAVEFORMS



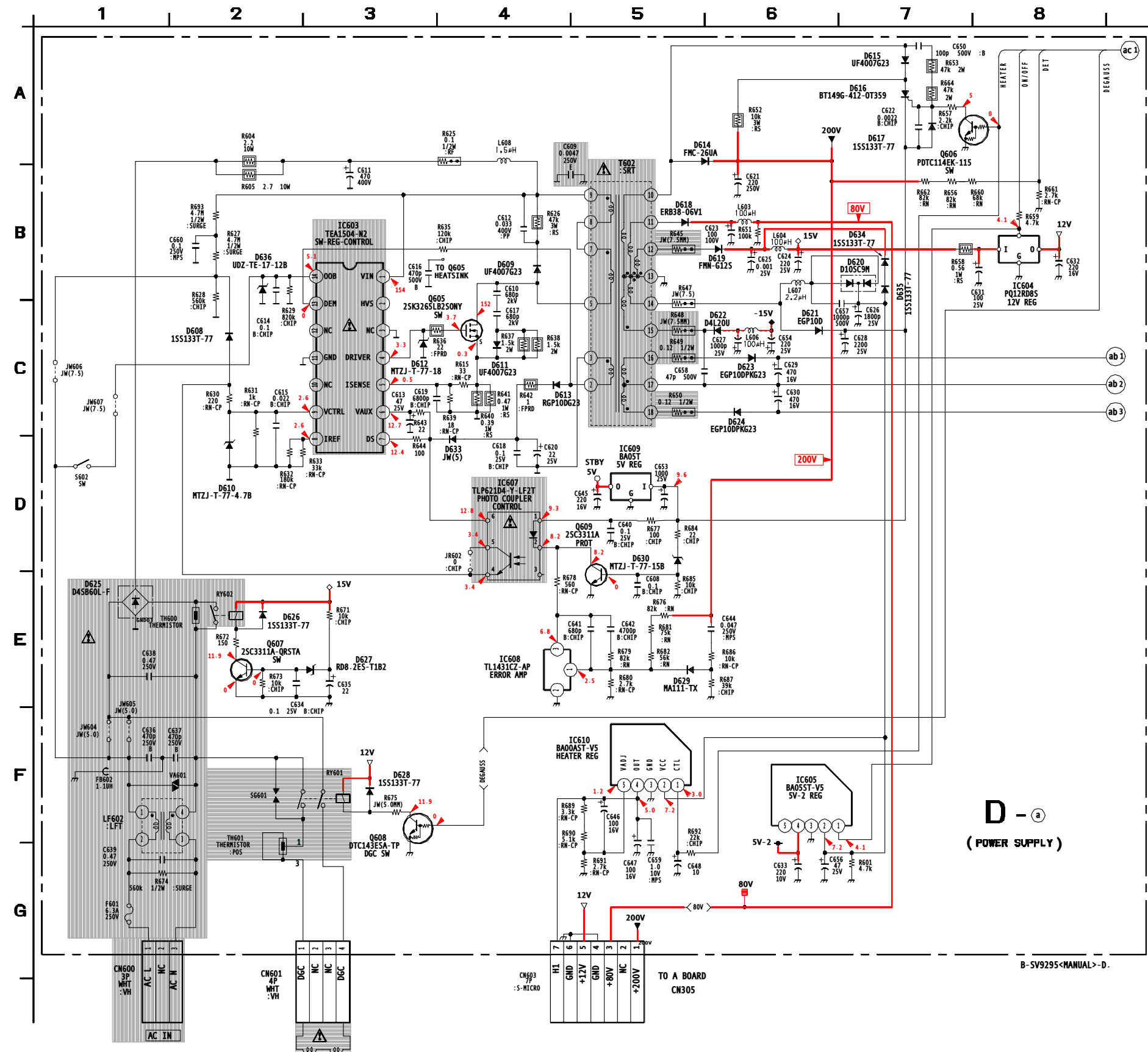
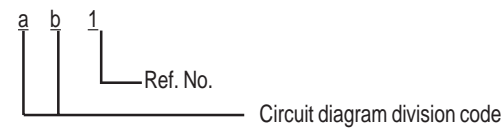
NOTE:
 Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

D Board Schematic Diagram (1/3)

D BOARD WAVEFORMS

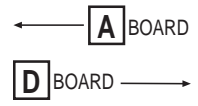


Divided circuit diagram
 D board circuit diagram is divided into three sheets, each having the code D - (a) to D - (c). For example, the destination (ab1) on the code D - (a) sheet is connected to (ab1) and (bc1) on the D - (b) and D - (c) sheet.

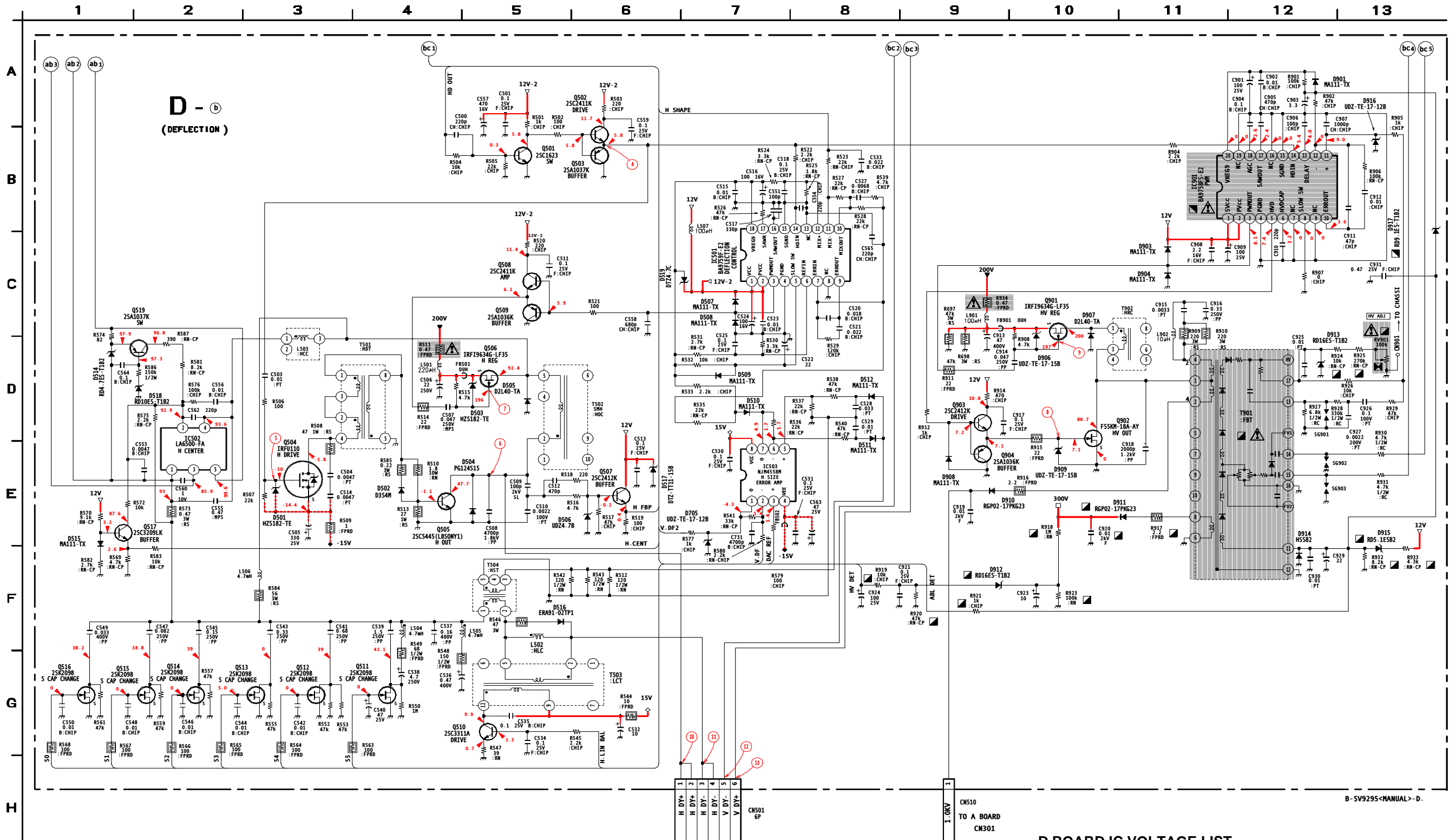


D - (a)
 (POWER SUPPLY)

B-SV9295<MANUAL>-D.



D Board Schematic Diagram (2/3)

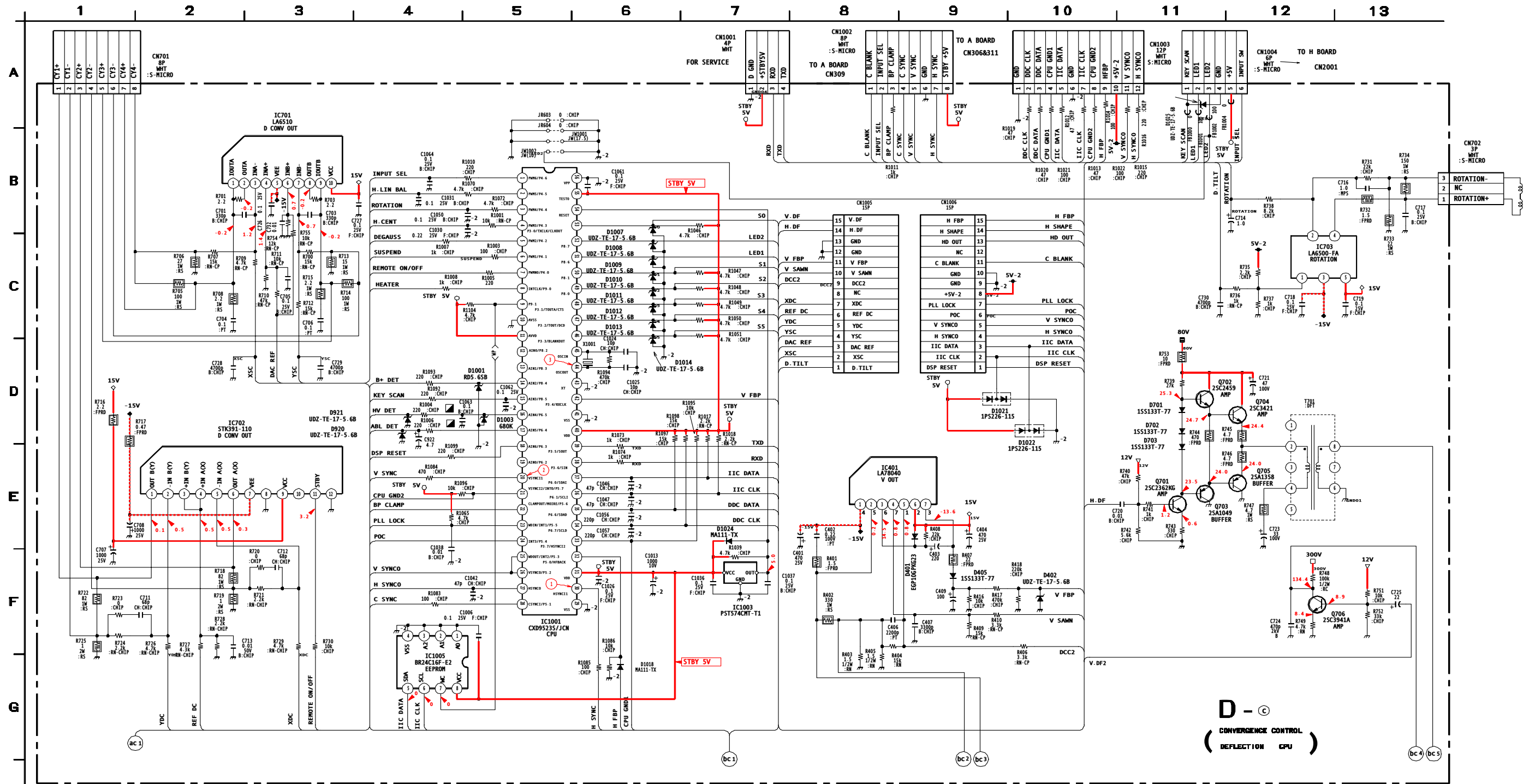


D BOARD IC VOLTAGE LIST

IC501		6	5.0	13	0
pin	volt	7	0	14	4.5
1	11.9	8	0	15	0
2	11.9	9	4.1	16	3.4
3	6.1	10	4.4	17	9.1
4	0	11	3.2	18	9.1
5	8.0	12	3.2		

All Voltages are in V

D Board Schematic Diagram (3/3)



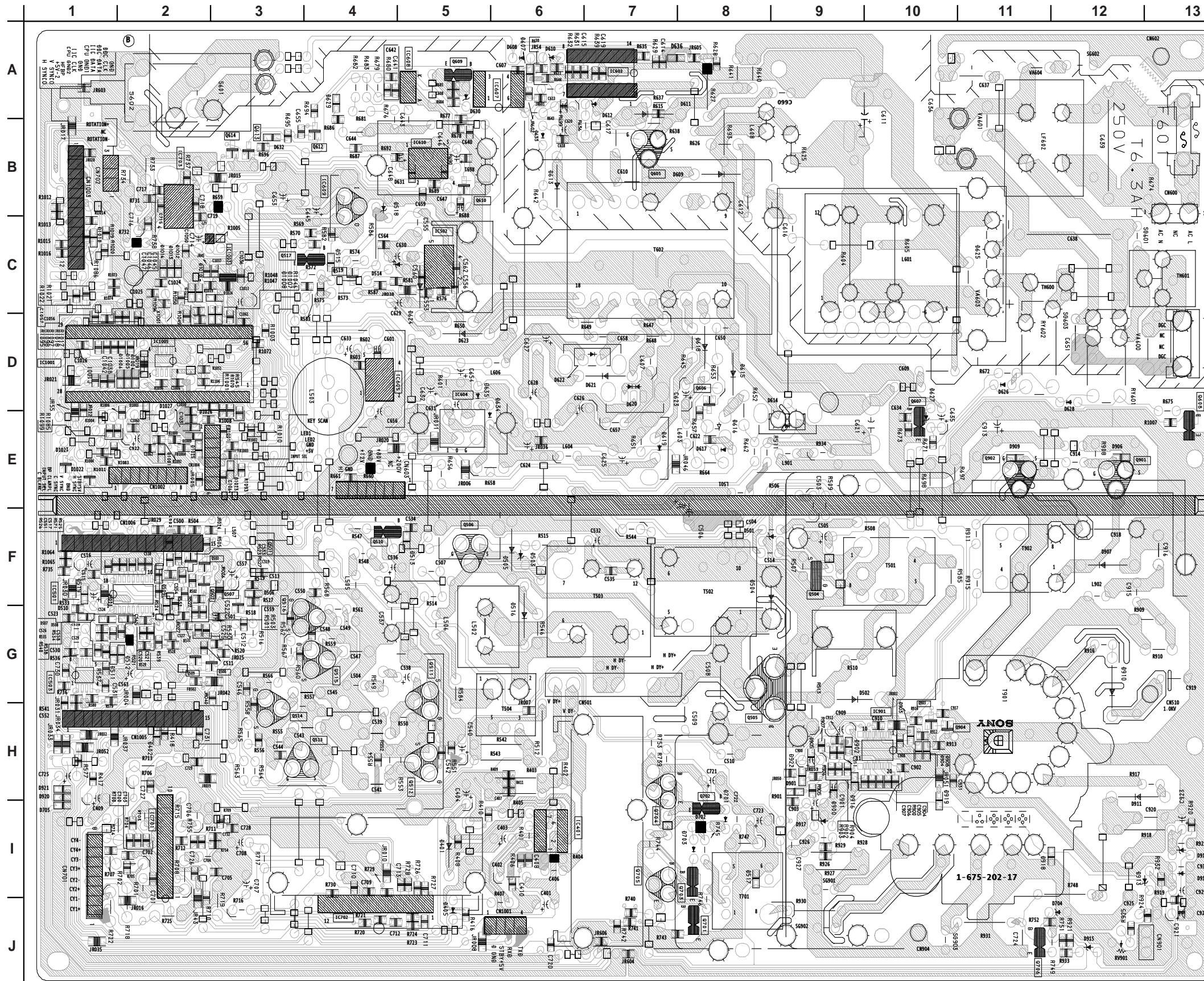
D BOARD IC VOLTAGE LIST

IC1001		7	5.0	15	4.9	23	5.0	30	0.4	37	4.7	44	2.4	51	0
pin	volt	8	5.0	16	4.0	24	4.7	31	5.0	38	0.7	45	2.4	52	5.0
1	0	9	5.0	17	3.4	25	0	32	0.44	39	5.0	46	0	53	0
2	1.6	10	0	18	5.0	26	0	33	0	40	5.0	47	0	54	5.0
3	2.5	11	5.0	19	0	27	0.37	34	4.8	41	0	48	5.0	55	5.0
4	3.3	12	0	20	0.3	28	3.1	35	5.0	42	3.5	49	0	56	0
5	0	13	0	21	5.0	29	0	36	4.5	43	0	50	0		
6	0	14	0	22	0.1										

All Voltages are in V

D BOARD

D [POWER DEFLECTION]

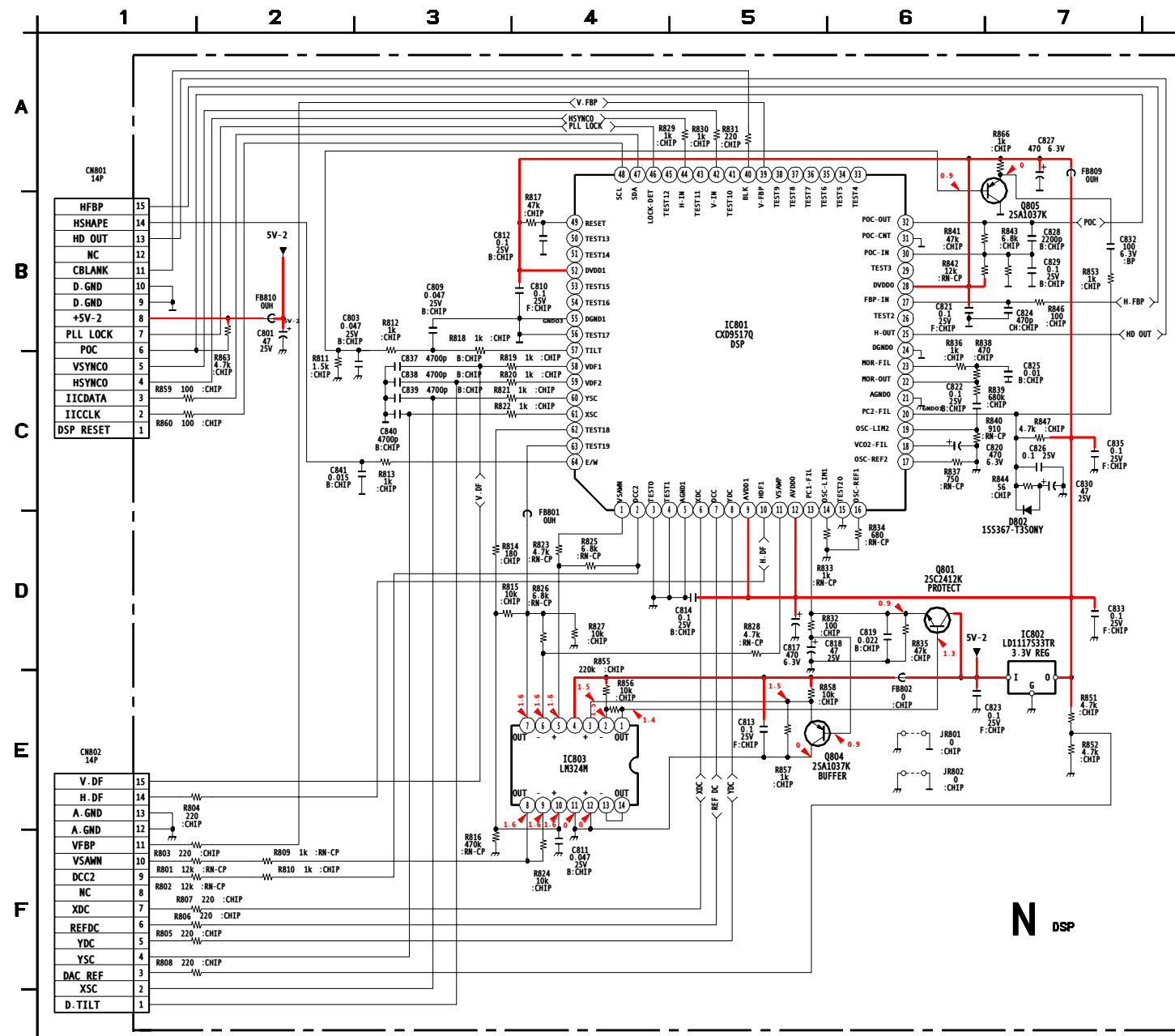


D BOARD LOCATION LIST

DIODE		IC	
D401	I - 5	D635	D - 5
D402	H - 2	D636	A - 7
D405	I - 5	D701	H - 8
D501	F - 8	D702	H - 8
D502	G - 10	D703	I - 8
D503	F - 6	D705	I - 1
D504	F - 8	D901	H - 9
D505	F - 6	D903	H - 10
D506	F - 3	D904	H - 10
D507	G - 1	D906	E - 12
D508	G - 1	D907	F - 12
D509	F - 2	D908	H - 10
D510	F - 1	D909	E - 11
D511	G - 1	D910	G - 12
D512	G - 1	D911	H - 13
D514	C - 4	D912	I - 13
D515	C - 4	D913	I - 13
D516	F - 6	D914	I - 13
D517	I - 8	D915	J - 12
D518	B - 4	D916	I - 12
D519	C - 4	D917	I - 9
D608	A - 6	D920	H - 1
D609	B - 8	D921	H - 1
D610	A - 6	D1001	E - 2
D611	A - 8	D1003	D - 2
D612	A - 7	D1007	C - 3
D613	B - 6	D1008	C - 3
D614	D - 9	D1009	E - 2
D615	D - 8	D1010	C - 2
D616	E - 8	D1011	C - 2
D617	E - 8	D1012	C - 2
D618	D - 8	D1013	C - 2
D619	E - 7	D1014	C - 2
D620	D - 7	D1018	C - 1
D621	D - 7	D1021	E - 1
D622	D - 6	D1022	E - 1
D623	D - 4	D1024	C - 3
D624	C - 5	D1025	E - 2
D625	C - 11	IC401	I - 6
D626	D - 11	IC501	F - 1
D627	D - 10	IC502	C - 5
D628	D - 12	IC503	G - 1
D629	A - 3	IC603	A - 7
D630	A - 5	IC604	D - 5
D634	D - 5	IC605	D - 4
IC607	A - 6	IC608	A - 5
IC609	B - 4	IC610	B - 5
IC701	I - 2	IC702	J - 4
IC703	B - 2	IC901	G - 10
IC1001	D - 1	IC1003	C - 3
IC1005	D - 2	TRANSISTOR	
Q501	F - 3	Q502	F - 2
Q503	F - 2	Q504	F - 9
Q505	H - 8	Q506	F - 5
Q507	F - 3	Q508	G - 3
Q509	G - 2	Q510	F - 4
Q511	G - 5	Q512	H - 5
Q513	H - 4	Q514	H - 3
Q515	G - 4	Q516	F - 3
Q517	C - 3	Q519	C - 4
Q605	B - 7	Q606	D - 8
Q607	D - 10	Q608	D - 13
Q609	B - 4	Q701	I - 8
Q702	H - 8	Q703	I - 8
Q704	I - 7	Q705	I - 7
Q706	J - 11	Q901	E - 13
Q902	E - 11	Q903	G - 10
Q904	H - 11		

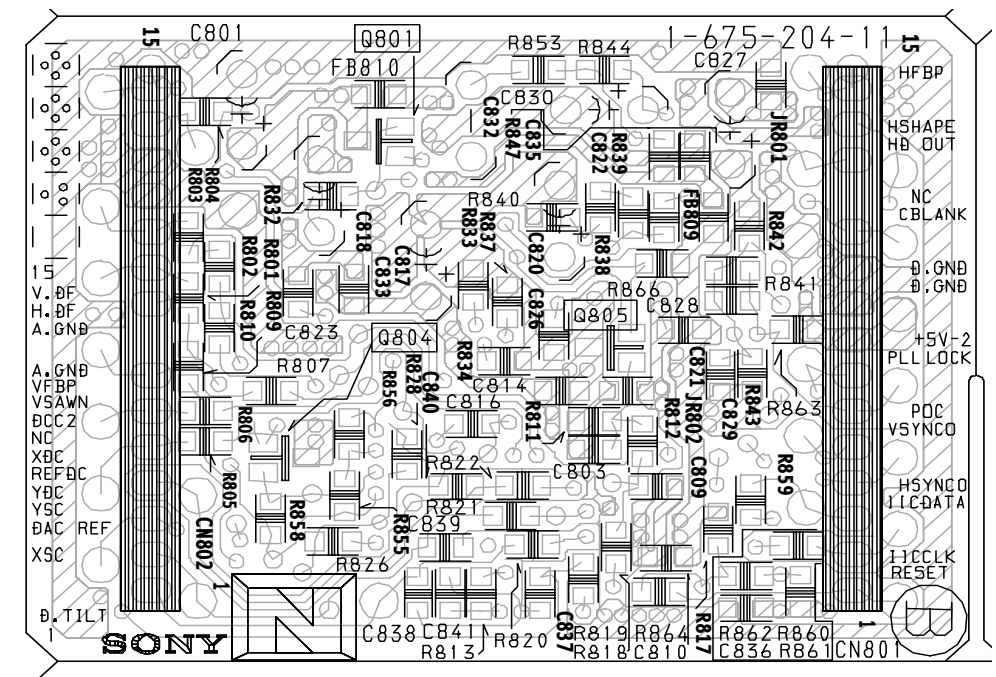
NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

N Board Schematic Diagram

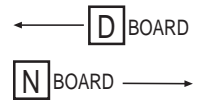
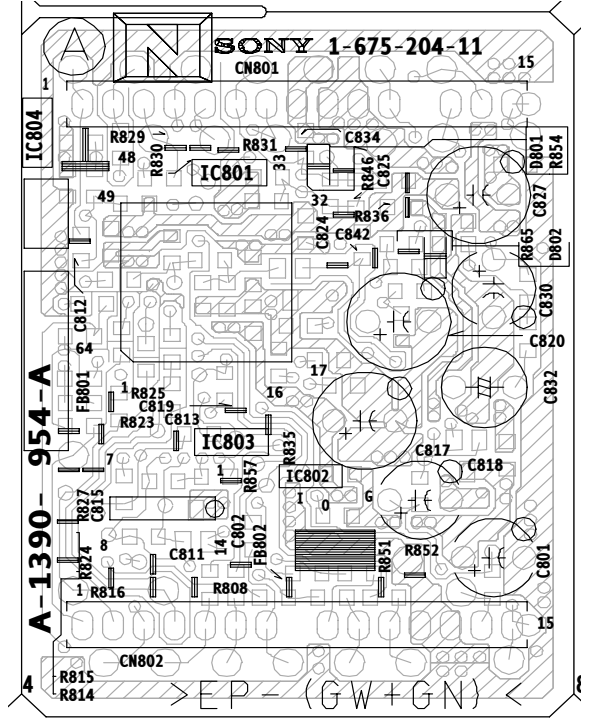


NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

N [DSP]
<CONDUCTOR SIDE>



<COMPONENT SIDE>



SECTION 6 EXPLODED VIEWS

P991

- Items with no part number and no description are not stocked because they are seldom required for routine service.

- The component parts of an assembly are indicated by the reference numbers in the remarks column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

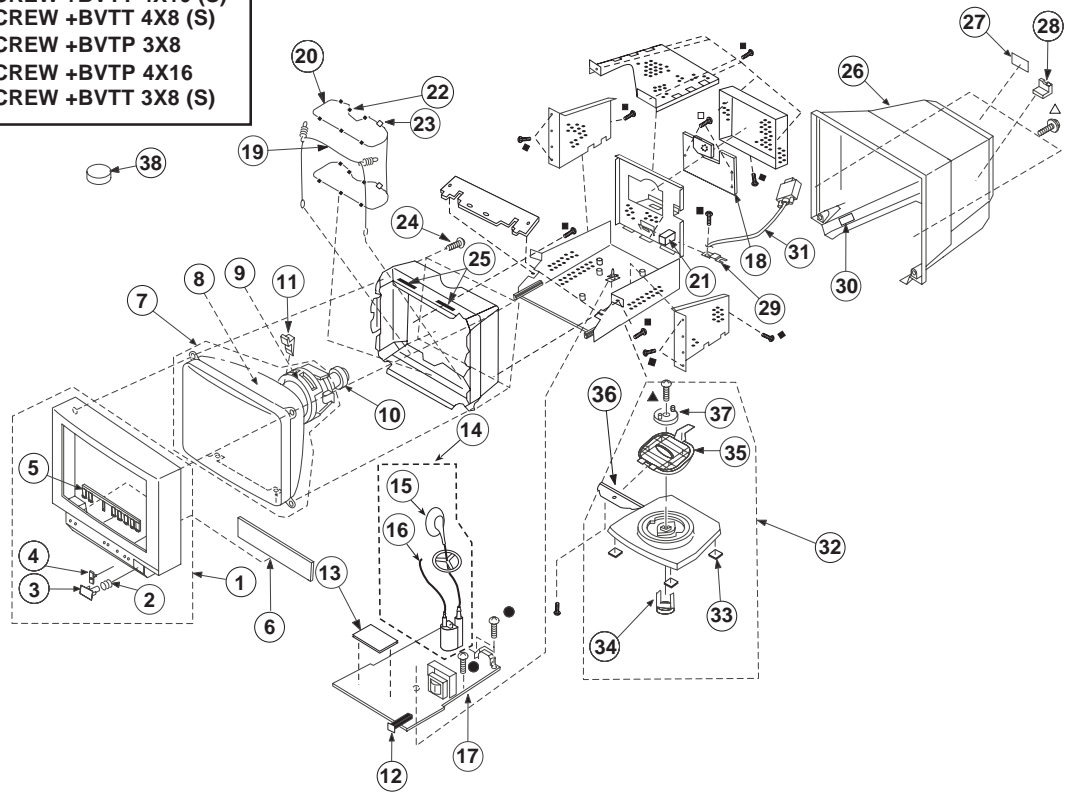
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

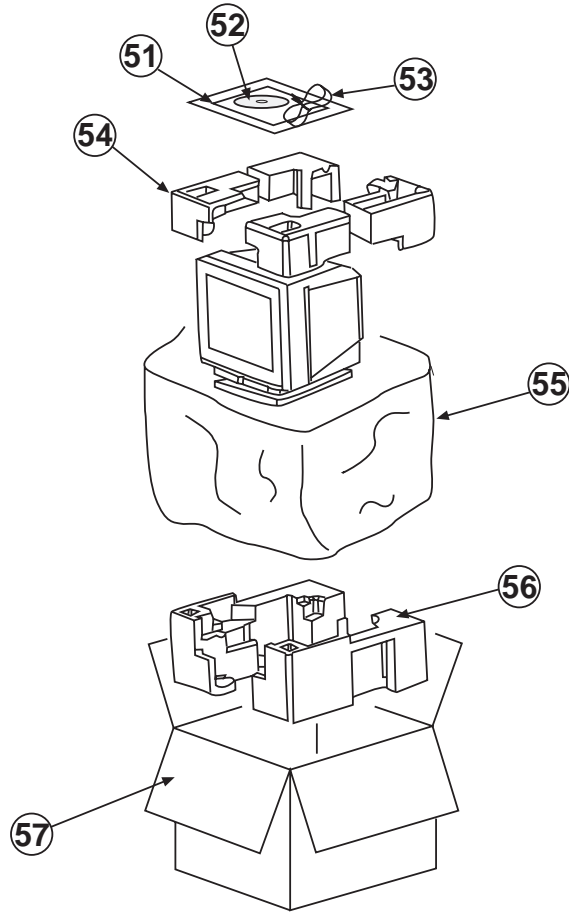
6-1. CHASSIS

- \blacktriangle 7-685-882-09 SCREW +BVTT 4X10 (S)
- \blacksquare 7-685-881-09 SCREW +BVTT 4X8 (S)
- \bullet 7-685-646-79 SCREW +BVTP 3X8
- \triangle 7-685-663-71 SCREW +BVTP 4X16
- \square 7-685-872-09 SCREW +BVTT 3X8 (S)



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1 *	X-4038-054-1	BEZEL ASSY (U/C only)	2-5	20 \triangle	1-419-285-11	COIL, DEGAUSSING	
1 *	X-4037-524-4	BEZEL ASSY (AEP only)	2-5	21	1-251-382-31	AC INLET, 3P	
2	3-653-339-01	SPRING, COMPRESSION		22	4-071-175-01	HOLDER, DEGAUSSING COIL	
3	4-072-464-21	BUTTON, POWER (U/C only)		23	4-041-021-02	HOLDER, DEGAUSE COIL	
3	4-072-464-31	BUTTON, POWER (AEP only)		24	4-365-808-01	SCREW (5), TAPPING	
4	4-072-465-01	GUIDE, LIGHT		25 *	4-067-370-01	CUSHION, 50X20	
5	4-072-463-21	BUTTON, MULTI (U/C only)		26 *	4-072-443-31	CABINET (AEP only)	
5	4-072-463-02	BUTTON, MULTI (AEP only)		26 *	4-072-443-61	CABINET (U/C only)	
6 *	A-1372-693-A	H BOARD, COMPLETE		27 *	4-072-442-21	LABEL, INFORMATION (U/C only)	
7 \triangle	8-736-407-61	ITC ASSEMBLY (19TKC-R1)		27 *	4-072-442-03	LABEL, INFORMATION (AEP only)	
8	8-736-410-05	CRT (19TKC) (M46LRR50X)		28 *	4-072-441-31	COVER, CABLE (U/C only)	
9	8-451-284-11	DY Y19TKK-V		28 *	4-072-441-03	COVER, CABLE (AEP only)	
10 \triangle	1-452-912-61	NECK ASSEMBLY (NA-2914)		29 *	4-045-131-01	STOPPER, CABLE	
11	4-040-897-01	SPACER, DY		30 *	4-067-757-71	COVER, CONNECTOR (U/C only)	
12	4-075-586-02	CAP, POWER		30 *	4-067-757-12	COVER, CONNECTOR (AEP only)	
13 *	A-1390-957-A	N BOARD, COMPLETE		31 *	1-790-283-22	CABLE ASSY (15PDSUB CONNECTOR) (AEP only)	
14 \triangle	1-453-317-11	FBT ASSY, NX-4700/X4E4	15-16	32	X-4038-056-1	BASE ASSY, STAND (U/C only)	33-37
15	1-251-642-42	CAP ASSY, HIGH-VOLTAGE		32	X-4037-581-3	BASE ASSY, STAND (AEP only)	33-37
16	1-900-238-31	CONNECTOR ASSY		33 *	4-060-533-01	CUSHION	
17 *	A-1346-862-E	D BOARD, COMPLETE (U/C only)		34	4-071-464-01	STOPPER, B	
17 *	A-1346-918-D	D BOARD, COMPLETE (AEP only)		35	4-071-065-61	SLIDER (U/C only)	
	The high voltage leads associated with the FBT on this board are not included and must be ordered separately.			35	4-071-065-12	SLIDER (AEP only)	
18 *	A-1299-002-C	A BOARD, COMPLETE		36	4-073-997-01	SUPPORT, SLIDER	
19 *	4-061-573-01	SPRING, TENSION		37	4-045-121-01	STOPPER (A), STAND	
				38	1-452-032-00	MAGNET, DISC	

6-2. PACKING MATERIALS



<u>REF.NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
51 *	3-867-831-12	MANUAL, QUICK SETUP (U/C only)	
51 *	3-867-831-21	MANUAL, QUICK SETUP (AEP only)	
52 *	3-867-832-12	MANUAL, CD-ROM	
53 Δ	1-790-662-11	CORD SET, POWER	
54 *	4-072-452-01	CUSHION ASSY, UPPER	
55 *	4-041-927-11	BAG, POLYETHYLENE	
56 *	4-072-455-01	CUSHION ASSY, LOWER	
57 *	4-072-458-02	CARTON, INDIVIDUAL	

SECTION 7 ELECTRICAL PARTS LIST



Note:

The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked with an asterisk "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px; font-size: 2em; font-weight: bold; text-align: center;">A</div> <div> <p>* A-1299-002-C A BOARD, COMPLETE</p> <p>4-382-854-01 SCREW (M3X8), P, SW (+)</p> <p style="text-align: center;">CAPACITOR</p> </div> </div>				C045	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C046	1-164-346-11	CERAMIC CHIP	1µF 16V
C001	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C047	1-165-319-11	CERAMIC CHIP	0.1µF 50V	C053	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C002	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C054	1-136-189-00	MYLAR	0.1µF 10% 250V	C056	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C003	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C059	1-164-346-11	CERAMIC CHIP	1µF 16V	C060	1-104-664-11	ELECT	47µF 20% 25V
C004	1-104-664-11	ELECT	47µF 20% 25V	C061	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C063	1-126-964-11	ELECT	10µF 20% 50V
C007	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C066	1-163-009-11	CERAMIC CHIP	0.001µF 10% 50V	C070	1-165-319-11	CERAMIC CHIP	0.1µF 50V
C009	1-126-964-11	ELECT	10µF 20% 50V	C092	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C093	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C010	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C094	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C095	1-126-935-11	ELECT	470µF 20% 16V
C011	1-106-220-00	MYLAR	0.1µF 10% 100V	C096	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C097	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
C012	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C099	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C104	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C013	1-107-888-11	ELECT	47µF 20% 25V	C105	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C106	1-117-450-11	MYLAR	0.47µF 10% 250V
C014	1-107-932-11	ELECT	47µF 20% 100V	C108	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C111	1-163-037-11	CERAMIC CHIP	0.022µF 10% 50V
C015	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C112	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V	C121	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C016	1-126-935-11	ELECT	470µF 20% 16V	C122	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C123	1-136-189-00	MYLAR	0.1µF 10% 250V
C018	1-107-652-11	ELECT	10µF 20% 250V	C130	1-164-489-11	CERAMIC CHIP	0.22µF 10% 16V	C152	1-126-933-11	ELECT	100µF 20% 16V
C020	1-126-935-11	ELECT	470µF 20% 16V	C204	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C205	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C021	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C206	1-117-450-11	MYLAR	0.47µF 10% 250V	C208	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C022	1-126-934-11	ELECT	220µF 20% 10V	C211	1-163-037-11	CERAMIC CHIP	0.022µF 10% 50V	C212	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
C027	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V	C221	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C222	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C028	1-104-664-11	ELECT	47µF 20% 25V	C223	1-136-189-00	MYLAR	0.1µF 10% 250V				
C029	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V								
C031	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V								
C032	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V								
C033	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V								
C035	1-162-134-11	CERAMIC CHIP	470pF 10% 2KV								
C037	1-136-177-00	MYLAR	1µF 5% 50V								
C038	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V								
C039	1-165-319-11	CERAMIC CHIP	0.1µF 50V								
C041	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V								
C042	1-165-319-11	CERAMIC CHIP	0.1µF 50V								
C043	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V								



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une 1 pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC003	8-759-639-50	IC CXD9522S					
IC004	8-749-015-92	IC H8D2972					
IC005	8-759-701-01	IC NJM2904M(TE2)					
IC006	8-759-233-66	IC TC74HCT04AF(EL)					
JACK							
J001 \triangle	1-451-499-11	SOCKET, CRT					
CONDUCTOR							
JR002	1-216-295-91	SHORT	0				
JR004	1-216-296-91	SHORT	0				
JR005	1-216-295-91	SHORT	0				
JR006	1-216-296-91	SHORT	0				
JR007	1-216-296-91	SHORT	0				
JR008	1-216-296-91	SHORT	0				
JR010	1-216-295-91	SHORT	0				
JR011	1-216-295-91	SHORT	0				
JR012	1-216-296-91	SHORT	0				
JR013	1-216-295-91	SHORT	0				
JR014	1-216-295-91	SHORT	0				
JR015	1-216-295-91	SHORT	0				
JR020	1-216-296-91	SHORT	0				
JR021	1-216-296-91	SHORT	0				
JR022	1-216-296-91	SHORT	0				
JR023	1-216-296-91	SHORT	0				
JR024	1-216-296-91	SHORT	0				
JR025	1-216-295-91	SHORT	0				
JR027	1-216-295-91	SHORT	0				
JR028	1-216-295-91	SHORT	0				
JR029	1-216-296-91	SHORT	0				
JR032	1-216-295-91	SHORT	0				
JR033	1-216-296-91	SHORT	0				
JR034	1-216-296-91	SHORT	0				
COIL							
L004	1-412-529-11	INDUCTOR	22 μ H				
L005	1-412-537-31	INDUCTOR	100 μ H				
L006	1-412-541-41	INDUCTOR	220 μ H				
L007	1-408-615-31	INDUCTOR	100 μ H				
TRANSISTOR							
Q001	8-729-032-61	TRANSISTOR 2SC5022-02					
Q002	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q003	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q006	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
				RESISTOR			
				R004	1-216-037-00	RES, CHIP	330 5% 1/10W
				R005	1-216-041-00	RES, CHIP	470 5% 1/10W
				R006	1-216-025-91	RES, CHIP	100 5% 1/10W
				R007	1-216-025-91	RES, CHIP	100 5% 1/10W
				R009	1-216-073-00	RES, CHIP	10K 5% 1/10W
				R011	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
				R012	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
				R013	1-216-025-91	RES, CHIP	100 5% 1/10W
				R014	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
				R017	1-216-025-91	RES, CHIP	100 5% 1/10W
				R018	1-216-025-91	RES, CHIP	100 5% 1/10W
				R020	1-216-017-91	RES, CHIP	47 5% 1/10W
				R021	1-216-017-91	RES, CHIP	47 5% 1/10W
				R022	1-216-025-91	RES, CHIP	100 5% 1/10W
				R023	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R024	1-216-061-00	RES, CHIP	3.3K 5% 1/10W
				R025	1-216-061-00	RES, CHIP	3.3K 5% 1/10W
				R027	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
				R029	1-216-097-91	RES, CHIP	100K 5% 1/10W
				R030	1-216-025-91	RES, CHIP	100 5% 1/10W
				R031	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R032	1-216-025-91	RES, CHIP	100 5% 1/10W
				R033	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
				R034	1-216-295-91	SHORT	0
				R040	1-216-129-00	RES, CHIP	2.2M 5% 1/10W
				R044	1-216-073-00	RES, CHIP	10K 5% 1/10W
				R045	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
				R047	1-216-073-00	RES, CHIP	10K 5% 1/10W
				R048	1-219-398-51	METAL CHIP	2.2M 5% 1W
				R049	1-216-093-91	RES, CHIP	68K 5% 1/10W
				R050	1-216-121-91	RES, CHIP	1M 5% 1/10W
				R053	1-219-621-91	METAL CHIP	22M 10% 1/4W
				R060	1-414-231-22	INDUCTOR	0 μ H
				R064	1-219-749-91	CARBON	10K 5% 1/2W
				R078	1-216-089-91	RES, CHIP	47K 5% 1/10W
				R079	1-216-089-91	RES, CHIP	47K 5% 1/10W
				R080	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R081	1-216-049-91	RES, CHIP	1K 5% 1/10W
				R082	1-216-089-91	RES, CHIP	47K 5% 1/10W
				R095	1-216-121-91	RES, CHIP	1M 5% 1/10W
				R096	1-216-033-00	RES, CHIP	220 5% 1/10W
				R097	1-218-179-11	RES, CHIP	10M 5% 1/10W
				R098	1-218-179-11	RES, CHIP	10M 5% 1/10W
				R099	1-208-291-11	RES, CHIP	4.7M 5% 1/10W
				R104	1-216-009-91	RES, CHIP	22 5% 1/10W
				R106	1-216-071-00	RES, CHIP	8.2K 5% 1/10W
				R107	1-216-675-91	METAL CHIP	10K 0.50% 1/10W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R108	1-216-049-91	RES, CHIP	1K 5% 1/10W	R351	1-247-735-11	SOLID	47 5% 1/2W
R109	1-216-041-00	RES, CHIP	470 5% 1/10W	R361	1-215-394-00	METAL CHIP	75 1% 1/4W
R110	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	SPARK GAP			
R111	1-249-404-00	CARBON	82 5% 1/4W	SG001 \triangle	1-519-422-11	GAP, SPARK	
R115	1-216-107-00	RES, CHIP	270K 5% 1/10W	SG002 \triangle	1-519-421-11	GAP, DISCHARGE	
R117	1-216-025-91	RES, CHIP	100 5% 1/10W	SG101 \triangle	1-519-421-11	GAP, DISCHARGE	
R118	1-216-025-91	RES, CHIP	100 5% 1/10W	SG201 \triangle	1-519-421-11	GAP, DISCHARGE	
R119	1-216-113-00	RES, CHIP	470K 5% 1/10W	SG301 \triangle	1-519-421-11	GAP, DISCHARGE	
R120	1-216-113-00	RES, CHIP	470K 5% 1/10W	CRYSTAL			
R122	1-216-113-00	RES, CHIP	470K 5% 1/10W	X001	1-781-472-21	VIBRATOR, CERAMIC CHIP	
R123	1-216-037-00	RES, CHIP	330 5% 1/10W	D			
R130	1-216-295-91	SHORT	0	* A-1346-862-E D BOARD, COMPLETE (U/C only)			
R133	1-216-295-91	SHORT	0	* A-1346-918-D D BOARD, COMPLETE (AEP only)			
R151	1-247-735-11	SOLID	47 5% 1/2W	The high voltage leads associated with the FBT on this board are not included and must be ordered separately.			
R161	1-215-394-00	METAL CHIP	75 1% 1/4W	Order the following leads when requesting this D Board:			
R204	1-216-009-91	RES, CHIP	22 5% 1/10W	1-251-642-42	HV CAP ASSY		
R206	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	1-900-238-31	CONNECTOR ASSY		
R207	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	1-533-223-11	CLIP, FUSE		
R208	1-216-049-91	RES, CHIP	1K 5% 1/10W	4-382-854-01	SCREW (M3X8), P, SW (+)		
R209	1-216-041-00	RES, CHIP	470 5% 1/10W	4-382-854-11	SCREW (M3X10), P, SW (+)		
R210	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	4-382-854-21	SCREW (M3X14), P, SW (+)		
R211	1-249-405-11	CARBON	100 5% 1/4W	7-685-881-09	SCREW 4X8 (S)		
R215	1-216-107-00	RES, CHIP	270K 5% 1/10W	CAPACITOR			
R217	1-216-025-91	RES, CHIP	100 5% 1/10W	C401	1-128-730-91	ELECT	470 μ F 20% 25V
R218	1-216-033-00	RES, CHIP	220 5% 1/10W	C402	1-137-401-11	MYLAR	0.22 μ F 10% 100V
R219	1-216-113-00	RES, CHIP	470K 5% 1/10W	C403	1-128-749-91	ELECT	220 μ F 20% 50V
R220	1-216-113-00	RES, CHIP	470K 5% 1/10W	C404	1-128-730-91	ELECT	470 μ F 20% 25V
R222	1-216-113-00	RES, CHIP	470K 5% 1/10W	C406	1-137-366-11	MYLAR	0.0022 μ F 5% 50V
R223	1-216-037-00	RES, CHIP	330 5% 1/10W	C407	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V
R230	1-216-295-91	SHORT	0	C409	1-126-968-11	ELECT	100 μ F 20% 50V
R233	1-216-295-91	SHORT	0	C500	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
R251	1-247-735-11	SOLID	47 5% 1/2W	C501	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
R261	1-215-394-00	METAL CHIP	75 1% 1/4W	C503	1-137-150-11	MYLAR	0.01 μ F 5% 50V
R304	1-216-009-91	RES, CHIP	22 5% 1/10W	C504	1-137-368-11	MYLAR	.0047 μ F 5% 50V
R306	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	C505	1-128-729-91	ELECT	330 μ F 20% 25V
R307	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	C506	1-127-810-51	ELECT	22 μ F 20% 250V
R308	1-216-049-91	RES, CHIP	1K 5% 1/10W	C507	1-136-187-11	MYLAR	0.047 μ F 10% 250V
R309	1-216-041-00	RES, CHIP	470 5% 1/10W	C508	1-117-959-11	FILM	4700pF 3% 1.8KV
R310	1-216-071-00	RES, CHIP	8.2K 5% 1/10W	C509	1-107-444-11	CERAMIC CHIP	100pF 5% 2KV
R311	1-249-405-11	CARBON	100 5% 1/4W	C510	1-136-684-51	MYLAR	0.0022 μ F 10% 100V
R315	1-216-107-00	RES, CHIP	270K 5% 1/10W				
R317	1-216-025-91	RES, CHIP	100 5% 1/10W				
R318	1-216-033-00	RES, CHIP	220 5% 1/10W				
R319	1-216-113-00	RES, CHIP	470K 5% 1/10W				
R320	1-216-113-00	RES, CHIP	470K 5% 1/10W				
R322	1-216-113-00	RES, CHIP	470K 5% 1/10W				
R323	1-216-037-00	RES, CHIP	330 5% 1/10W				
R330	1-216-295-91	SHORT	0				
R333	1-216-295-91	SHORT	0				



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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
C511	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C565	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C512	1-102-114-00	CERAMIC CHIP	470pF	10%	50V	C608	1-115-339-11	CERAMIC CHIP	0.1 μ F	10%	50V
C513	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C609 \triangle	1-113-912-11	CERAMIC CHIP	.0047 μ F	20%	250V
C514	1-137-368-11	MYLAR	.0047 μ F	5%	50V	C610	1-117-769-91	CERAMIC CHIP	680pF	10%	2KV
C515	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C611	1-113-608-11	ELECT(BLOCK)	470 μ F	20%	400V
C516	1-126-382-11	ELECT	100 μ F	20%	16V	C612	1-131-985-21	FILM	0.033 μ F	5%	250V
C517	1-163-263-11	CERAMIC CHIP	330pF	5%	50V	C613	1-104-664-11	ELECT	47 μ F	20%	25V
C518	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	C614	1-115-339-11	CERAMIC CHIP	0.1 μ F	10%	50V
C520	1-163-024-00	CERAMIC CHIP	0.018 μ F	10%	50V	C615	1-163-037-11	CERAMIC CHIP	0.022 μ F	10%	50V
C521	1-163-037-11	CERAMIC CHIP	0.022 μ F	10%	50V	C616	1-102-228-00	CERAMIC CHIP	470pF	10%	500V
C522	1-126-965-11	ELECT	22 μ F	20%	50V	C617	1-117-769-91	CERAMIC CHIP	680pF	10%	2KV
C523	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C618	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V
C524	1-126-382-11	ELECT	100 μ F	20%	16V	C619	1-163-019-00	CERAMIC CHIP	0.0068 μ F	10%	50V
C525	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C620	1-128-551-11	ELECT	22 μ F	20%	25V
C527	1-163-019-00	CERAMIC CHIP	0.0068 μ F	10%	50V	C621	1-131-723-21	ELECT(BLOCK)	220 μ F	20%	250V
C528	1-130-489-00	MYLAR	0.033 μ F	5%	50V	C622	1-164-161-11	CERAMIC CHIP	0.0022 μ F	10%	50V
C529	1-137-150-11	MYLAR	0.01 μ F	5%	50V	C623	1-107-933-11	ELECT	100 μ F	20%	100V
C530	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C624	1-104-666-11	ELECT	220 μ F	20%	25V
C531	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C625	1-115-789-11	ELECT	0.001F	20%	25V
C532	1-107-906-11	ELECT	10 μ F	20%	50V	C626	1-115-791-11	ELECT	0.0018F	20%	25V
C533	1-163-037-11	CERAMIC CHIP	0.022 μ F	10%	50V	C627	1-115-789-11	ELECT	0.001F	20%	25V
C534	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C628	1-107-890-11	ELECT	2200 μ F	20%	25V
C535	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	C629	1-126-935-11	ELECT	470 μ F	20%	16V
C536	1-107-665-11	ELECT	0.47 μ F	20%	400V	C630	1-126-935-11	ELECT	470 μ F	20%	16V
C537	1-107-770-11	FILM	0.16 μ F	3%	400V	C631	1-128-526-11	ELECT	100 μ F	20%	25V
C538	1-107-651-11	ELECT	4.7 μ F	20%	250V	C632	1-104-653-11	ELECT	220 μ F	20%	16V
C539	1-117-673-11	FILM	1.5 μ F	5%	250V	C633	1-126-934-11	ELECT	220 μ F	20%	10V
C540	1-107-888-11	ELECT	47 μ F	20%	25V	C634	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V
C541	1-109-844-11	FILM	0.68 μ F	5%	250V	C635	1-126-965-11	ELECT	22 μ F	20%	50V
C542	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C636 \triangle	1-113-900-11	CERAMIC CHIP	470pF	10%	250V
C543	1-117-665-11	FILM	0.33 μ F	5%	250V	C637 \triangle	1-113-900-11	CERAMIC CHIP	470pF	10%	250V
C544	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C638 \triangle	1-104-708-11	MYLAR	0.47 μ F	20%	250V
C545	1-117-661-21	FILM	0.15 μ F	5%	250V	C639 \triangle	1-104-708-11	MYLAR	0.47 μ F	20%	250V
C546	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C640	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V
C547	1-119-860-11	FILM	0.082 μ F	5%	250V	C641	1-163-007-11	CERAMIC CHIP	680pF	10%	50V
C548	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C642	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V
C549	1-117-953-11	FILM	0.033 μ F	5%	400V	C644	1-136-187-11	MYLAR	0.047 μ F	10%	250V
C550	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C645	1-126-934-11	ELECT	220 μ F	20%	16V
C551	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	C646	1-107-882-91	ELECT	100 μ F	20%	16V
C553	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V	C647	1-107-882-91	ELECT	100 μ F	20%	16V
C554	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	C648	1-107-906-11	ELECT	10 μ F	20%	50V
C555	1-137-194-81	MYLAR	0.47 μ F	5%	50V	C650	1-162-117-00	CERAMIC CHIP	100pF	10%	500V
C556	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C653	1-126-942-61	ELECT	1000 μ F	20%	25V
C557	1-126-935-11	ELECT	470 μ F	20%	16V	C654	1-104-666-11	ELECT	220 μ F	20%	25V
C558	1-163-007-11	CERAMIC CHIP	680pF	10%	50V	C656	1-104-664-11	ELECT	47 μ F	20%	25V
C559	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C657	1-162-318-11	CERAMIC CHIP	0.001 μ F	10%	500V
C560	1-109-982-11	CERAMIC CHIP	1 μ F	10%	10V	C658	1-162-815-11	CERAMIC CHIP	47pF	5%	500V
C562	1-163-001-11	CERAMIC CHIP	220pF	10%	50V	C659	1-109-982-11	CERAMIC CHIP	1 μ F	10%	10V
C563	1-113-340-11	ELECT	47 μ F	20%	25V	C660	1-136-189-00	MYLAR	0.1 μ F	10%	250V
C564	1-115-339-11	CERAMIC CHIP	0.1 μ F	10%	50V	C701	1-163-003-11	CERAMIC CHIP	330pF	10%	50V



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IC503	8-759-100-96	IC NJM4558M-TE2					
IC603 \triangle	8-759-594-75	IC TEA1504/N2		JR036	1-216-295-91	SHORT	0
IC604	8-759-637-83	IC PQ12RD8S		JR037	1-216-296-91	SHORT	0
IC605	8-759-496-15	IC BA05ST-V5		JR038	1-216-296-91	SHORT	0
IC607 \triangle	8-749-016-35	IC TLP621D4-Y-LF2T		JR039	1-216-296-91	SHORT	0
IC608	8-759-586-17	IC TL1431CZ-AP		JR040	1-216-295-91	SHORT	0
IC609	8-759-450-47	IC BA05T		JR042	1-216-296-91	SHORT	0
IC610	8-759-592-79	IC BA00AST-V5		JR046	1-216-296-91	SHORT	0
IC701	8-759-822-38	IC LA6510		JR050	1-216-295-91	SHORT	0
IC702	8-749-015-00	IC STK391-110		JR051	1-216-296-91	SHORT	0
IC703	8-759-803-42	IC LA6500-FA		JR052	1-216-296-91	SHORT	0
IC901 \triangle	8-759-585-81	IC BA9758FS-E2		JR602	1-216-295-91	SHORT	0
IC1001	8-759-656-96	IC CXD9523S/JCN		JR603	1-216-295-91	SHORT	0
IC1003	8-759-420-77	IC PST574CMT-T1		JR604	1-216-295-91	SHORT	0
IC1005	8-759-641-86	IC BR24C16F-E2		JR606	1-216-295-91	SHORT	0
CONDUCTOR				COIL			
JR43	1-216-296-91	SHORT	0	L501	1-412-541-21	INDUCTOR	220 μ H
JR45	1-216-295-91	SHORT	0	L502	1-419-299-11	COIL, HORIZONTAL	LINEARITY
JR002	1-216-296-91	SHORT	0	L503	1-419-298-11	COIL, HORIZONTAL	CENTER
JR004	1-216-296-91	SHORT	0	L504	1-406-675-11	INDUCTOR	4.7MH
JR005	1-216-295-91	SHORT	0	L505	1-406-675-11	INDUCTOR	4.7MH
JR006	1-216-296-91	SHORT	0	L506	1-406-675-11	INDUCTOR	4.7MH
JR007	1-216-295-91	SHORT	0	L507	1-412-537-31	INDUCTOR	100 μ H
JR008	1-216-296-91	SHORT	0	L603	1-412-537-31	INDUCTOR	100 μ H
JR010	1-216-296-91	SHORT	0	L604	1-406-665-11	INDUCTOR	100 μ H
JR011	1-216-296-91	SHORT	0	L606	1-406-665-11	INDUCTOR	100 μ H
JR015	1-216-296-91	SHORT	0	L607	1-414-158-11	INDUCTOR	2.2 μ H
JR016	1-216-296-91	SHORT	0	L608	1-414-488-31	INDUCTOR	1.5 μ H
JR017	1-216-296-91	SHORT	0	L901	1-412-537-31	INDUCTOR	100 μ H
JR019	1-216-296-91	SHORT	0	L902	1-406-659-11	INDUCTOR	10 μ H
JR020	1-216-296-91	SHORT	0	FILTER			
JR021	1-216-296-91	SHORT	0	LF602 \triangle	1-429-180-11	TRANSFORMER, LINE	FILTER
JR022	1-216-295-91	SHORT	0	TRANSISTOR			
JR023	1-216-296-91	SHORT	0	Q501	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6
JR024	1-216-295-91	SHORT	0	Q502	8-729-901-87	TRANSISTOR	2SC2411K-T-146-CQ
JR025	1-216-295-91	SHORT	0	Q503	8-729-026-50	TRANSISTOR	2SA1037K-T-146-QR
JR026	1-216-296-91	SHORT	0	Q504	8-729-042-34	TRANSISTOR	IRFU110
JR027	1-216-295-91	SHORT	0	Q505	8-729-050-12	TRANSISTOR	2SC5445(LBSONY1)
JR028	1-216-295-91	SHORT	0	Q506	8-729-043-63	TRANSISTOR	IRFI9634G-LF35
JR029	1-216-295-91	SHORT	0	Q507	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
JR030	1-216-296-91	SHORT	0	Q508	8-729-901-87	TRANSISTOR	2SC2411K-T-146-CQ
JR031	1-216-295-91	SHORT	0	Q509	8-729-901-97	TRANSISTOR	2SA1036K-T-146-Q
JR032	1-216-296-91	SHORT	0	Q510	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
JR033	1-216-296-91	SHORT	0				
JR034	1-216-296-91	SHORT	0				
JR035	1-216-296-91	SHORT	0				



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R565	1-249-405-11	CARBON	100 5% 1/4W	R653	1-215-902-11	METAL CHIP	47K 5% 2W
R566	1-249-405-11	CARBON	100 5% 1/4W	R656	1-215-467-00	METAL CHIP	82K 1% 1/4W
R567	1-249-405-11	CARBON	100 5% 1/4W	R657	1-216-057-00	RES, CHIP	2.2K 5% 1/10W
R568	1-249-405-11	CARBON	100 5% 1/4W	R658	1-216-346-00	METAL CHIP	0.56 5% 1W
R569	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R659	1-249-425-11	CARBON	4.7K 5% 1/4W
R570	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W	R660	1-215-465-00	METAL CHIP	68K 1% 1/4W
R572	1-249-429-11	CARBON	10K 5% 1/4W	R661	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R573	1-216-385-11	METAL CHIP	0.47 5% 3W	R662	1-215-467-00	METAL CHIP	82K 1% 1/4W
R574	1-249-404-00	CARBON	82 5% 1/4W	R664	1-215-902-11	METAL CHIP	47K 5% 2W
R575	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R671	1-216-073-00	RES, CHIP	10K 5% 1/10W
R576	1-216-097-91	RES, CHIP	100K 5% 1/10W	R672	1-249-407-11	CARBON	150 5% 1/4W
R577	1-216-049-91	RES, CHIP	1K 5% 1/10W	R673	1-216-073-00	RES, CHIP	10K 5% 1/10W
R579	1-216-025-91	RES, CHIP	100 5% 1/10W	R674 \triangle	1-220-827-91	RESISTOR	560K 5% 1/2W
R580	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R676	1-215-467-00	METAL CHIP	82K 1% 1/4W
R581	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	R677	1-216-025-91	RES, CHIP	100 5% 1/10W
R582	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R678	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R583	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R679	1-215-467-00	METAL CHIP	82K 1% 1/4W
R584	1-216-473-11	METAL CHIP	56 5% 3W	R680	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R585	1-216-381-11	METAL CHIP	0.22 5% 3W	R681	1-215-466-00	METAL CHIP	75K 1% 1/4W
R586	1-260-125-11	CARBON	150K 5% 1/2W	R682	1-215-463-00	METAL CHIP	56K 1% 1/4W
R587	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R684	1-216-009-91	RES, CHIP	22 5% 1/10W
R601	1-249-425-11	CARBON	4.7K 5% 1/4W	R685	1-216-073-00	RES, CHIP	10K 5% 1/10W
R604	1-205-997-11	CEMENTED	2.2 5% 10W	R686	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R605	1-240-265-11	CMT	2.7 5% 10W	R687	1-216-689-11	RES, CHIP	39K 5% 1/10W
R615	1-216-615-91	METAL CHIP	33 0.50% 1/10W	R689	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
R625	1-220-778-31	FUSIBLE	0.1 10% 1/2W	R690	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W
R626	1-215-927-00	METAL CHIP	47K 5% 3W	R691	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R627	1-219-513-11	CARBON	4.7M 5% 1/2W	R692	1-216-081-00	RES, CHIP	22K 5% 1/10W
R628	1-216-115-00	RES, CHIP	560K 5% 1/10W	R693	1-219-513-11	CARBON	4.7M 5% 1/2W
R629	1-216-119-00	RES, CHIP	820K 5% 1/10W	R697	1-215-927-00	METAL CHIP	47K 5% 3W
R630	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R698	1-215-927-00	METAL CHIP	47K 5% 3W
R631	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R700	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R632	1-218-758-11	METAL CHIP	180K 0.50% 1/10W	R701	1-249-385-11	CARBON	2.2 5% 1/4W
R633	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R703	1-249-385-11	CARBON	2.2 5% 1/4W
R635	1-218-754-11	METAL CHIP	120K 0.50% 1/10W	R705	1-215-863-11	METAL CHIP	100 5% 1W
R636	1-249-397-11	CARBON	22 5% 1/4W	R706	1-216-423-11	METAL CHIP	27 5% 1W
R637	1-215-893-11	METAL CHIP	1.5K 5% 2W	R707	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R638	1-215-893-11	METAL CHIP	1.5K 5% 2W	R708	1-216-353-00	METAL CHIP	2.2 5% 1W
R639	1-216-609-11	METAL CHIP	18 0.50% 1/10W	R709	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R640	1-216-344-00	METAL CHIP	0.39 5% 1W	R710	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R641	1-216-345-11	METAL CHIP	0.47 5% 1W	R711	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R642	1-249-381-11	CARBON	1 5% 1/4W	R712	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R643	1-247-791-91	CARBON	22 5% 1/4W	R713	1-215-858-00	METAL CHIP	15 5% 1W
R644	1-247-807-31	CARBON	100 5% 1/4W	R714	1-215-863-11	METAL CHIP	100 5% 1W
R649 \triangle	1-211-874-71	FUSIBLE	0.12 10% 1/2W	R715	1-216-353-00	METAL CHIP	2.2 5% 1W
R650 \triangle	1-211-874-71	FUSIBLE	0.12 10% 1/2W	R716	1-249-385-11	CARBON	2.2 5% 1/4W
R651	1-249-441-11	CARBON	100K 5% 1/4W	R717	1-249-377-11	CARBON	0.47 5% 1/4W
R652	1-215-923-00	METAL CHIP	10K 5% 3W	R718	1-216-426-11	METAL CHIP	82 5% 1W



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R719	1-216-369-00	METAL CHIP	1	5%	2W	R915	1-249-397-11	CARBON	22	5%	1/4W
R720	1-216-295-91	SHORT	0			R916	1-249-385-11	CARBON	2.2	5%	1/4W
R721	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R917	1-249-385-11	CARBON	2.2	5%	1/4W
R722	1-216-426-11	METAL CHIP	82	5%	1W	R918	1-214-964-00	METAL CHIP	1M	1%	1/4W
R723	1-216-295-91	SHORT	0			R919	1-216-073-00	RES, CHIP	10K	5%	1/10W
R724	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R920	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R725	1-216-369-00	METAL CHIP	1	5%	2W	R921	1-216-049-91	RES, CHIP	1K	5%	1/10W
R726	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R923	1-215-469-00	METAL CHIP	100K	1%	1/4W
R727	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W	R924	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R728	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R925	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R729	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R926	1-216-073-00	RES, CHIP	10K	5%	1/10W
R730	1-216-073-00	RES, CHIP	10K	5%	1/10W	R927	1-220-823-91	CARBON	6.8K	5%	1/2W
R731	1-216-081-00	RES, CHIP	22K	5%	1/10W	R928	1-220-825-11	CARBON	330K	5%	1/2W
R732	1-249-383-11	CARBON	1.5	5%	1/4W	R929	1-216-089-91	RES, CHIP	47K	5%	1/10W
R733	1-215-859-00	METAL CHIP	22	5%	1W	R930	1-219-748-11	CARBON	4.7K	5%	1/2W
R734	1-215-864-00	METAL CHIP	150	5%	1W	R931	1-219-748-11	CARBON	4.7K	5%	1/2W
R735	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R932	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R736	1-216-049-91	RES, CHIP	1K	5%	1/10W	R933	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W
R737	1-216-049-91	RES, CHIP	1K	5%	1/10W	R934 \triangle	1-249-377-11	CARBON	0.47	5%	1/4W
R738	1-216-071-00	RES, CHIP	8.2K	5%	1/10W	R1001	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R739	1-249-434-11	CARBON	27K	5%	1/4W	R1003	1-216-025-91	RES, CHIP	100	5%	1/10W
R740	1-216-089-91	RES, CHIP	47K	5%	1/10W	R1004	1-216-033-00	RES, CHIP	220	5%	1/10W
R741	1-216-049-91	RES, CHIP	1K	5%	1/10W	R1005	1-247-815-91	CARBON	220	5%	1/4W
R742	1-216-067-00	RES, CHIP	5.6K	5%	1/10W	R1006	1-216-033-00	RES, CHIP	220	5%	1/10W
R743	1-216-037-00	RES, CHIP	330	5%	1/10W	R1007	1-216-049-91	RES, CHIP	1K	5%	1/10W
R744	1-249-413-11	CARBON	470	5%	1/4W	R1008	1-216-049-91	RES, CHIP	1K	5%	1/10W
R745	1-249-389-11	CARBON	4.7	5%	1/4W	R1010	1-216-033-00	RES, CHIP	220	5%	1/10W
R746	1-249-389-11	CARBON	4.7	5%	1/4W	R1011	1-216-049-91	RES, CHIP	1K	5%	1/10W
R747	1-216-357-00	METAL CHIP	4.7	5%	1W	R1012	1-216-017-91	RES, CHIP	47	5%	1/10W
R748	1-219-752-11	CARBON	100K	5%	1/2W	R1013	1-216-017-91	RES, CHIP	47	5%	1/10W
R749	1-215-437-00	METAL CHIP	4.7K	1%	1/4W	R1014	1-216-025-91	RES, CHIP	100	5%	1/10W
R751	1-216-073-00	RES, CHIP	10K	5%	1/10W	R1015	1-216-033-00	RES, CHIP	220	5%	1/10W
R752	1-216-085-00	RES, CHIP	33K	5%	1/10W	R1016	1-216-033-00	RES, CHIP	220	5%	1/10W
R753	1-249-393-11	CARBON	10	5%	1/4W	R1017	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R754	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	R1018	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R755	1-216-675-91	METAL CHIP	10K	0.50%	1/10W	R1019	1-216-017-91	RES, CHIP	47	5%	1/10W
R901	1-216-097-91	RES, CHIP	100K	5%	1/10W	R1020	1-216-017-91	RES, CHIP	47	5%	1/10W
R902	1-216-089-91	RES, CHIP	47K	5%	1/10W	R1021	1-216-025-91	RES, CHIP	100	5%	1/10W
R904	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R1022	1-216-025-91	RES, CHIP	100	5%	1/10W
R905	1-216-049-91	RES, CHIP	1K	5%	1/10W	R1039	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R906	1-216-699-91	METAL CHIP	100K	0.50%	1/10W	R1046	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R907	1-216-295-91	SHORT	0			R1047	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R908	1-249-425-11	CARBON	4.7K	5%	1/4W	R1048	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R909	1-215-913-11	METAL CHIP	220	5%	3W	R1049	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R910	1-215-913-11	METAL CHIP	220	5%	3W	R1050	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R911	1-249-397-11	CARBON	22	5%	1/4W	R1051	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R912	1-216-049-91	RES, CHIP	1K	5%	1/10W	R1065	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R914	1-216-041-00	RES, CHIP	470	5%	1/10W	R1070	1-216-065-91	RES, CHIP	4.7K	5%	1/10W



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

The components identified by \square in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1072	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R1073 Δ	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R1074	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R1083	1-216-025-91	RES, CHIP	100 5% 1/10W				
R1084	1-216-041-00	RES, CHIP	470 5% 1/10W				
R1085	1-216-025-91	RES, CHIP	100 5% 1/10W				
R1086	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R1092	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1093	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1094	1-216-113-00	RES, CHIP	470K 5% 1/10W				
R1095	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R1096	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R1097	1-216-077-91	RES, CHIP	15K 5% 1/10W				
R1098	1-216-077-91	RES, CHIP	15K 5% 1/10W				
R1099	1-216-033-00	RES, CHIP	220 5% 1/10W				
R1104	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
<u>VARIABLE RESISTOR</u>							
\square RV901 Δ	1-241-767-21	RES, ADJ, CERMET	100K				
	3-710-578-01	COVER, VOLUME, 6 MOLD	(for RV901)				
<u>RELAY</u>							
RY601 Δ	1-755-067-21	RELAY					
RY602 Δ	1-755-318-11	RELAY, POWER					
<u>SWITCH</u>							
S602	1-771-757-11	SWITCH PUSH	(1 KEY)				
<u>SPARK GAP</u>							
SG601	1-519-422-11	GAP, SPARK					
SG901	1-517-499-21	GAP, SPARK					
SG902	1-519-422-11	GAP, SPARK					
SG903	1-519-422-11	GAP, SPARK					
<u>TRANSFORMER</u>							
T501	1-433-628-11	TRANSFORMER, FERRITE (HDT)					
T502	1-411-594-41	INDUCTOR	5MH				
T503	1-435-140-11	TRANSFORMER, FERRITE (LCT)					
T504	1-431-413-21	TRANSFORMER, FERRITE (HST)					
T602 Δ	1-435-141-11	TRANSFORMER, CONVERTER (SRT)					
T701	1-435-129-11	TRANSFORMER, FERRITE (DFT)					
T901 Δ	1-453-317-11	FBT ASSY NX-4700/X4E4					
T902	1-411-567-31	INDUCTOR	500 μ H				
				<u>THERMISTOR</u>			
				TH600 Δ	1-809-260-11	THERMISTOR, NEC (NTH22D6R0QA)	
				TH601 Δ	1-803-540-11	THERMISTOR	
				<u>VARISTOR</u>			
				VA601 Δ	1-801-268-51	VARISTOR	ERZV14D471
				VA603	1-801-268-51	VARISTOR	ERZV14D471
				<u>CRYSTAL</u>			
				X1001	1-567-890-11	VIBRATOR, CRYSTAL	
				<u>H</u>			
				*	A-1372-693-A	H BOARD, COMPLETE	
				<u>CAPACITOR</u>			
				C2002	1-126-786-11	ELECT	47 μ F 20% 16V
				<u>CONNECTOR</u>			
				CN2001*	1-564-523-11	PLUG, CONNECTOR	8P
				<u>DIODE</u>			
				D2001	8-719-064-11	DIODE SPR-325MVW	
				D2004	8-719-109-89	DIODE NNCD5.6A-T1	
				D2005	8-719-970-83	DIODE HSS82-TJ	
				D2006	8-719-970-83	DIODE HSS82-TJ	
				D2007	8-719-970-83	DIODE HSS82-TJ	
				D2008	8-719-970-83	DIODE HSS82-TJ	
				<u>TRANSISTOR</u>			
				Q2001	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
				Q2002	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
				<u>RESISTOR</u>			
				R2001	1-249-422-11	CARBON	2.7K 5% 1/4W
				R2002	1-249-429-11	CARBON	10K 5% 1/4W
				R2003	1-249-429-11	CARBON	10K 5% 1/4W
				R2004	1-215-411-00	METAL CHIP	390 1% 1/4W
				R2005	1-215-417-00	METAL CHIP	680 1% 1/4W



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R2006	1-249-411-11	CARBON	330	5%	1/4W	C837	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
R2007	1-249-413-11	CARBON	470	5%	1/4W	C838	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
R2008	1-249-415-11	CARBON	680	5%	1/4W	C839	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
R2009	1-249-417-11	CARBON	1K	5%	1/4W	C840	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V
R2011	1-249-421-11	CARBON	2.2K	5%	1/4W	C841	1-163-023-00	CERAMIC CHIP	0.015μF	10%	50V
R2013	1-249-425-11	CARBON	4.7K	5%	1/4W						
SWITCH						CONNECTOR					
S2002	1-762-196-21	SWITCH TACTILE				CN801	1-793-585-11	PIN, CONNECTOR	(PC BOARD)	14P	
S2003	1-762-196-21	SWITCH TACTILE				CN802	1-793-586-11	PIN, CONNECTOR	(PC BOARD)	14P	
S2004	1-762-196-21	SWITCH TACTILE				DIODE					
S2005	1-762-196-21	SWITCH TACTILE				D802	8-719-049-09	DIODE 1SS367-T3SONY			
S2006	1-762-196-21	SWITCH TACTILE				FERRITE BEAD					
S2007	1-762-196-21	SWITCH TACTILE				FB801	1-543-960-22	FERRITE	0μH		
S2008	1-762-196-21	SWITCH TACTILE				FB802	1-216-295-91	SHORT	0		
IC						FB809	1-543-963-22	FERRITE	0μH		
IC						FB810	1-543-963-22	FERRITE	0μH		
IC						CONDUCTOR					
IC						JR801	1-216-295-91	SHORT	0		
IC						JR802	1-216-295-91	SHORT	0		
IC						TRANSISTOR					
IC						Q801	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
IC						Q804	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR			
IC						Q805	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR			
IC						RESISTOR					
IC						R801	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
IC						R802	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
IC						R803	1-216-033-00	RES, CHIP	220	5%	1/10W
IC						R804	1-216-033-00	RES, CHIP	220	5%	1/10W
IC						R805	1-216-033-00	RES, CHIP	220	5%	1/10W
IC						R806	1-216-033-00	RES, CHIP	220	5%	1/10W
IC						R807	1-216-033-00	RES, CHIP	220	5%	1/10W



* A-1390-957-A N BOARD, COMPLETE

CAPACITOR

C801	1-113-340-11	ELECT	47μF	20%	25V
C803	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V
C809	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V
C810	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C811	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V
C812	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C813	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C814	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C817	1-119-941-91	ELECT	470μF	20%	6.3V
C818	1-113-340-11	ELECT	47μF	20%	25V
C819	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V
C820	1-119-941-91	ELECT	470μF	20%	6.3V
C821	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C822	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C823	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C824	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C825	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C826	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C827	1-119-941-91	ELECT	470μF	20%	6.3V
C828	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C829	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C830	1-113-340-11	ELECT	47μF	20%	25V
C832	1-131-722-91	ELECT	100μF	20%	6.3V
C833	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C835	1-163-038-91	CERAMIC CHIP	0.1μF		25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R808	1-216-033-00	RES, CHIP	220 5% 1/10W	R863	1-216-065-91	RES, CHIP	4.7K 5% 1/10W
R809	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R866	1-216-049-91	RES, CHIP	1K 5% 1/10W
R810	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R811	1-216-053-00	RES, CHIP	1.5K 5% 1/10W				
R812	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R813	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R814	1-216-031-00	RES, CHIP	180 5% 1/10W				
R815	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R816	1-218-768-11	METAL CHIP	470K 0.50% 1/10W				
R817	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R818	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R819	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R820	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R821	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R822	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R823	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R824	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R825	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R826	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R827	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R828	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R829	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R830	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R831	1-216-033-00	RES, CHIP	220 5% 1/10W				
R832	1-216-025-91	RES, CHIP	100 5% 1/10W				
R833	1-216-651-11	METAL CHIP	1K 0.50% 1/10W				
R834	1-216-647-11	METAL CHIP	680 0.50% 1/10W				
R835	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R836	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R837	1-216-648-11	METAL CHIP	750 0.50% 1/10W				
R838	1-216-041-00	RES, CHIP	470 5% 1/10W				
R839	1-216-117-00	RES, CHIP	680K 5% 1/10W				
R840	1-216-650-11	METAL CHIP	910 0.50% 1/10W				
R841	1-216-089-91	RES, CHIP	47K 5% 1/10W				
R842	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R843	1-216-069-00	RES, CHIP	6.8K 5% 1/10W				
R844	1-216-019-00	RES, CHIP	56 5% 1/10W				
R846	1-216-025-91	RES, CHIP	100 5% 1/10W				
R847	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R851	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R852	1-216-065-91	RES, CHIP	4.7K 5% 1/10W				
R853	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R855	1-216-105-91	RES, CHIP	220K 5% 1/10W				
R856	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R857	1-216-049-91	RES, CHIP	1K 5% 1/10W				
R858	1-216-073-00	RES, CHIP	10K 5% 1/10W				
R859	1-216-025-91	RES, CHIP	100 5% 1/10W				
R860	1-216-025-91	RES, CHIP	100 5% 1/10W				

SERVICE MANUAL

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P991

US Model

Canadian Model

AEP Model

Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT - 4

(For US/Canadian Bridge Model and AEP Model Only)

Subject: New D Block Diagram. New A Board Schematic, Printed Circuit Board. New D Board Schematic, Printed Circuit Board. New N Board Schematic, Printed Circuit Board. New Exploded View. New Electrical Parts List.

Was:

9-978-859-82 Printed in the USA 2000.5

Should be:

Supplement-3 9-978-859-83

US/Canadian Bridge Model is Gray / AEP Model is Pearl White

Additional Information:

Pearl White Models - Current Model

Bridge Models - These models are the current models with Gray Plastic

Bridge PFC Models - These models will be Bridge Models with a passive PFC circuit added to the D Board

Pearl White PFC Models - These models are current color with a passive PFC circuit added to the D Board

File with Supplement 9-978-859-82 (Printed in USA 2000.5)

COLOR MONITOR

DELL®

SUPPLEMENT-5

(For AEP Models Only)

Subject: New Block Diagram. New A Board Schematic, Printed Circuit Board. New D Board Schematic, Printed Circuit Board. New N Board Schematic, Printed Circuit Board. New Exploded View. New Electrical Parts List.

File this supplement with the service manual.

TABLE OF CONTENTS

☞ : Modified Portion

<u>Item</u>	<u>Page No.</u>
☞ Block Diagram	2
☞ A Board Schematic	3
☞ D Board Schematic	5
☞ N Board Schematic	9
☞ Exploded View	10
☞ Electrical Parts List	12

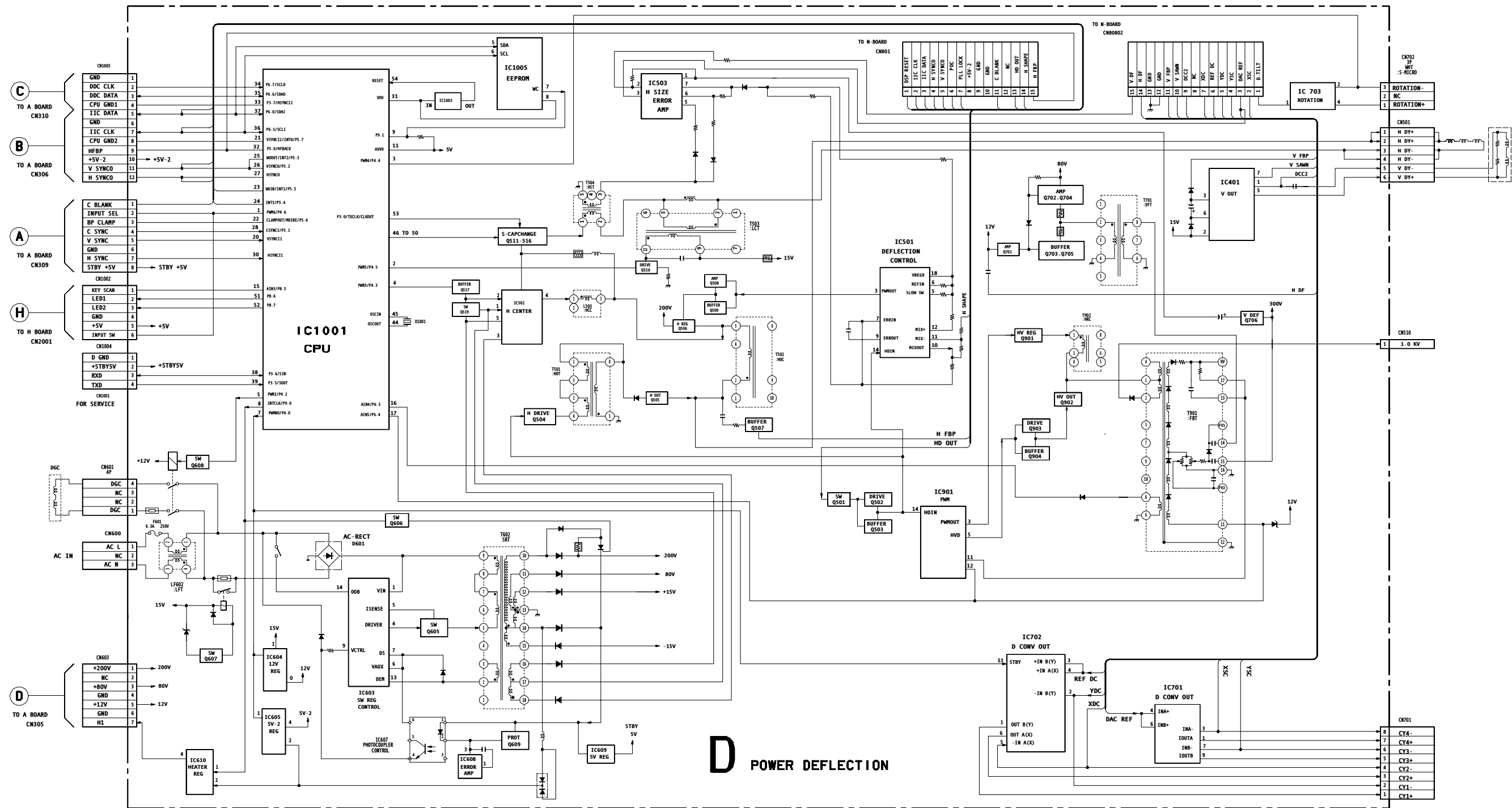
Design and specifications are subject to change without notice.

COLOR MONITOR

DELL®

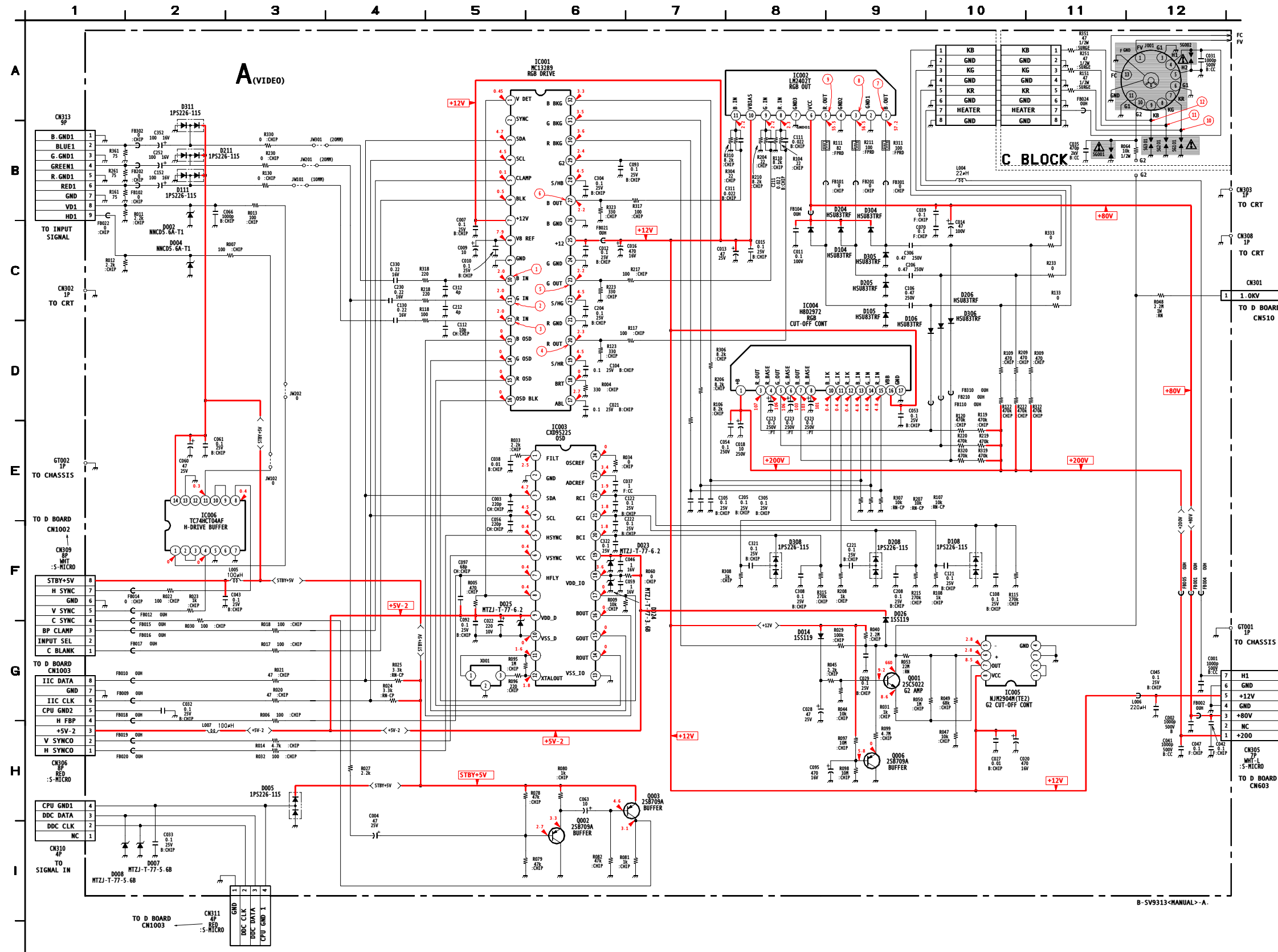
SECTION 5 DIAGRAMS

5.1 BLOCK DIAGRAM

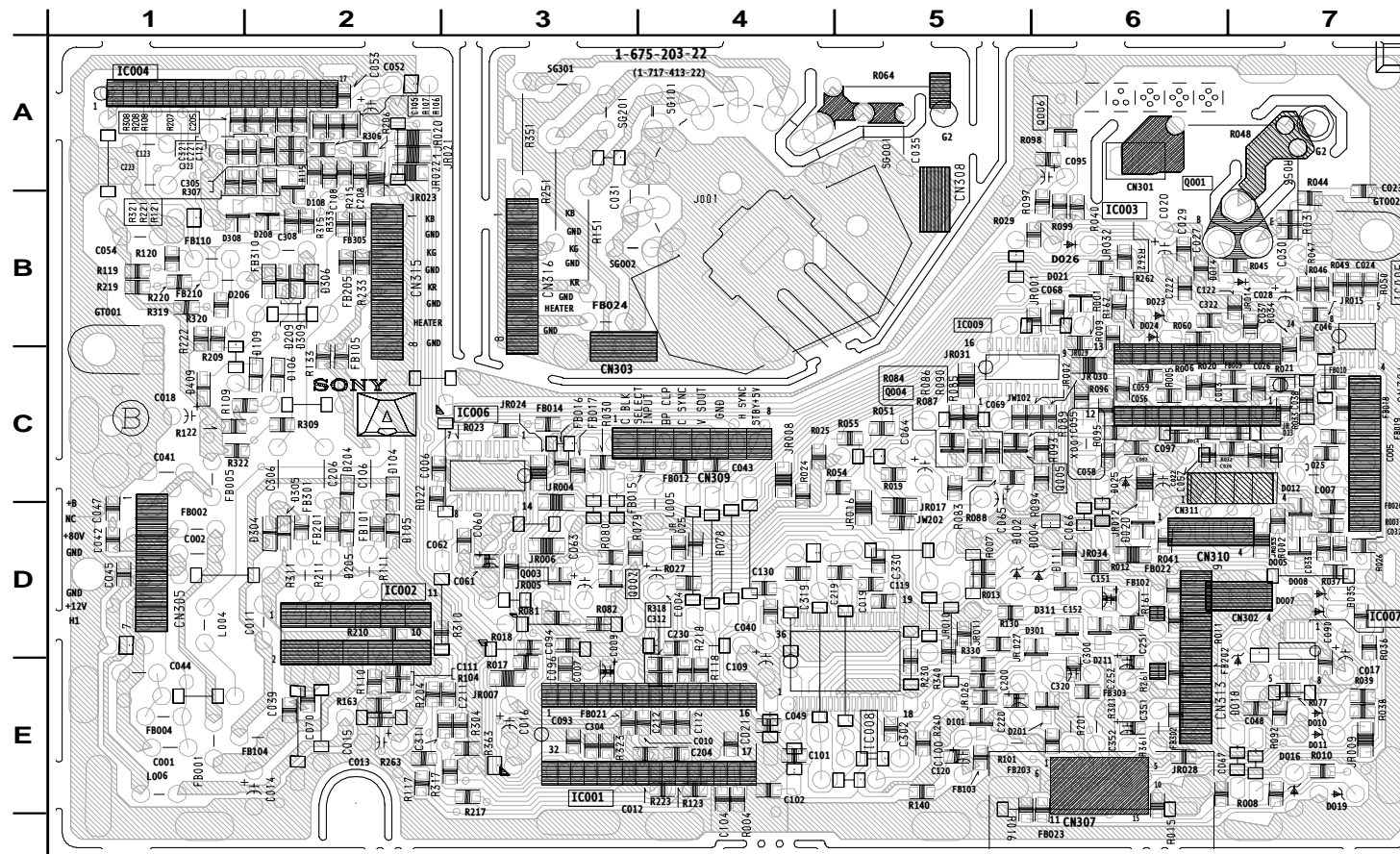


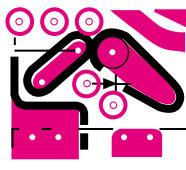
B-SV9313-MANUAL-BLK

A Board Schematic Diagram



B-SV9313<MANUAL>-A.

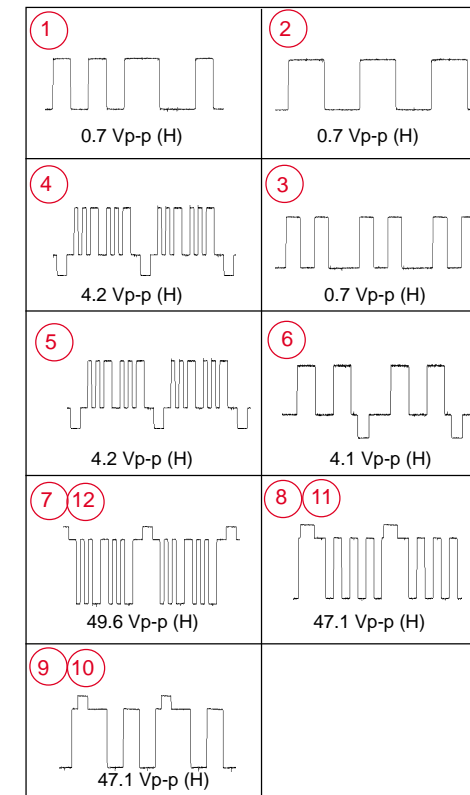


 **NOTE:**
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

A BOARD LOCATION LIST

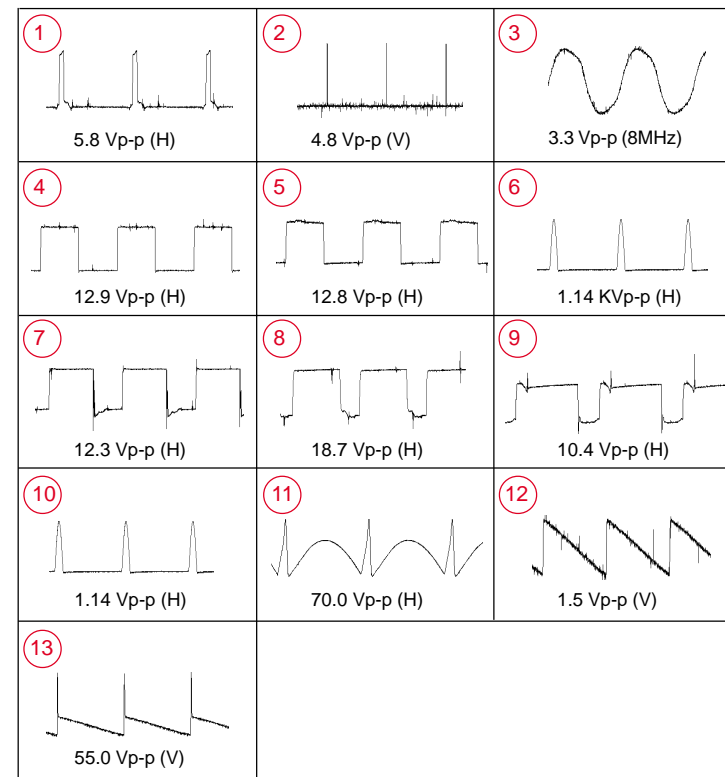
DIODE		IC	
D002	C - 6	D209	B - 2
D004	C - 6	D211	D - 7
D005	C - 8	D304	C - 2
D007	D - 8	D305	C - 2
D008	D - 8	D306	B - 2
D014	B - 7	D308	B - 2
D023	B - 7	D309	B - 2
D024	B - 7	D311	D - 6
D025	C - 7	D409	B - 2
D026	B - 7	IC	
D104	C - 3	IC001	E - 4
D105	C - 3	IC002	D - 3
D106	B - 2	IC003	B - 7
D108	A - 2	IC004	A - 1
D109	B - 2	IC005	B - 8
D111	C - 6	IC006	C - 3
D204	C - 2	TRANSISTOR	
D205	C - 2	Q001	A - 7
D206	B - 2	Q002	D - 4
D208	B - 2	Q003	D - 3
		Q006	A - 6

A BOARD WAVEFORMS



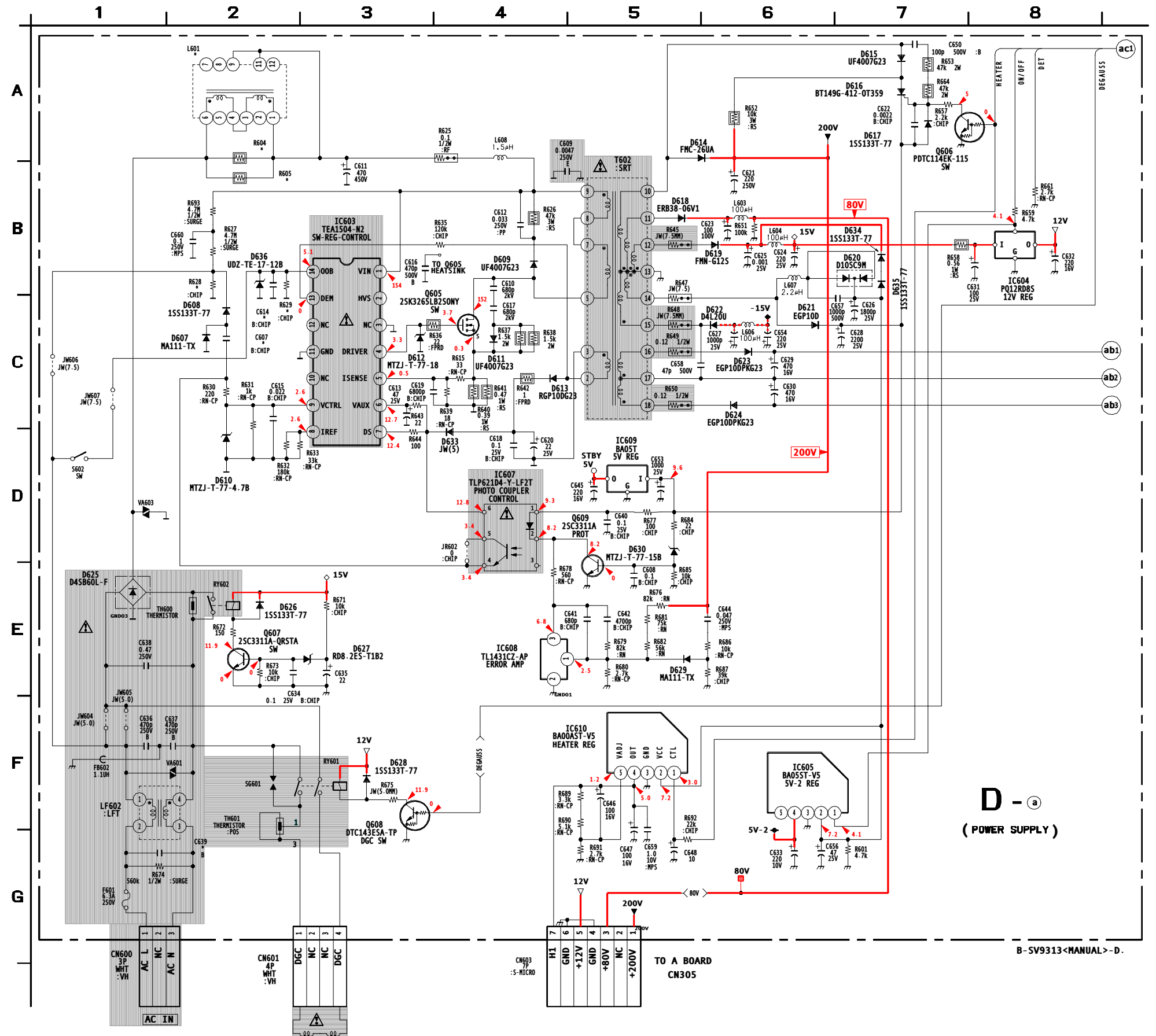
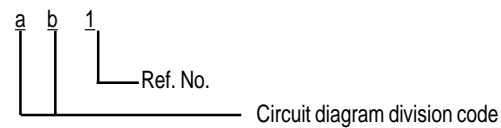
D Board Schematic Diagram (1/3)

D BOARD WAVEFORMS

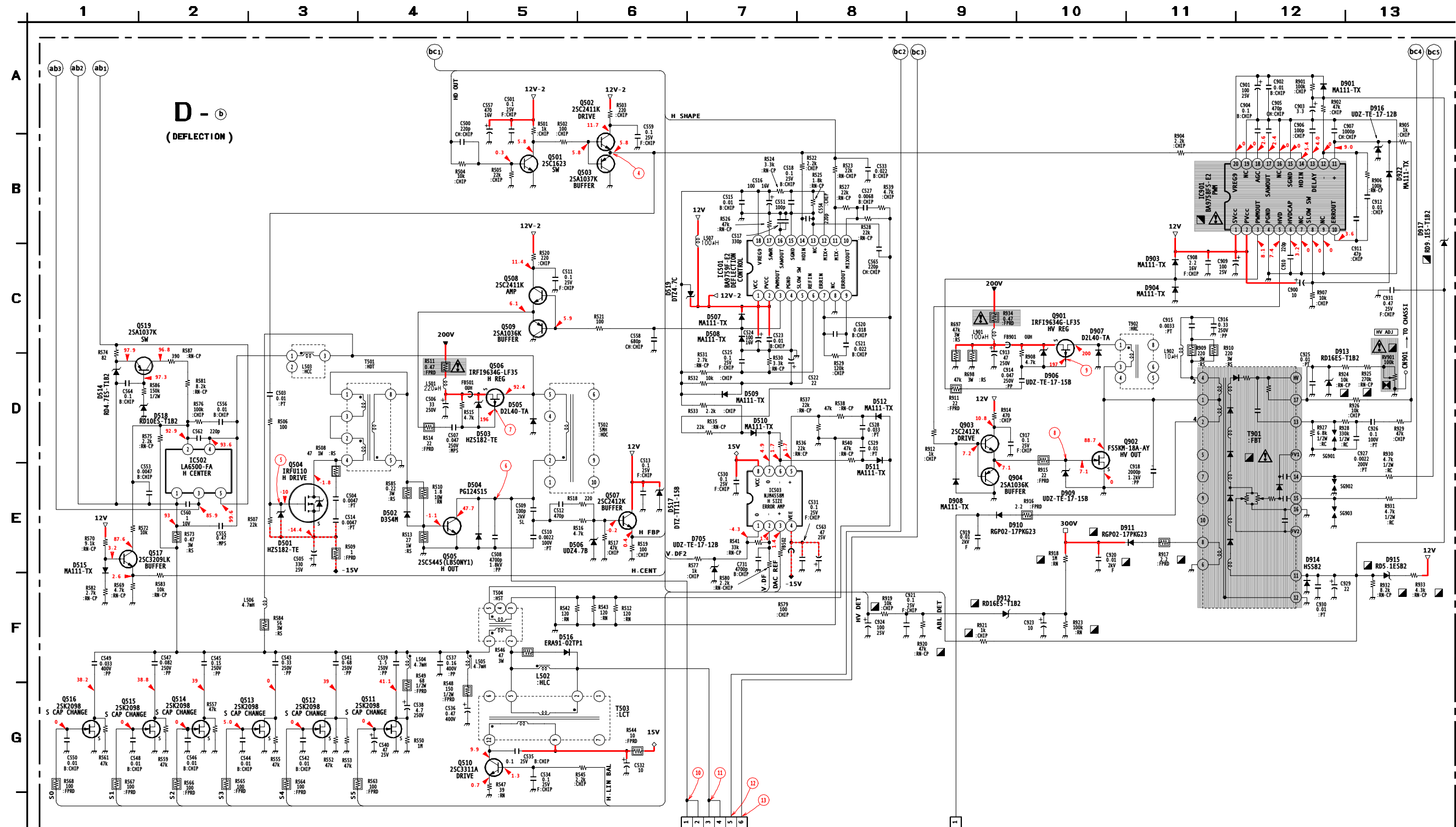


Divided circuit diagram

D board circuit diagram is divided into three sheets, each having the code D - (a) to D - (c). For example, the destination (ab1) on the code D - (a) sheet is connected to (ab1) and (bc1) on the D - (b) and D - (c) sheet.



D Board Schematic Diagram (2/3)

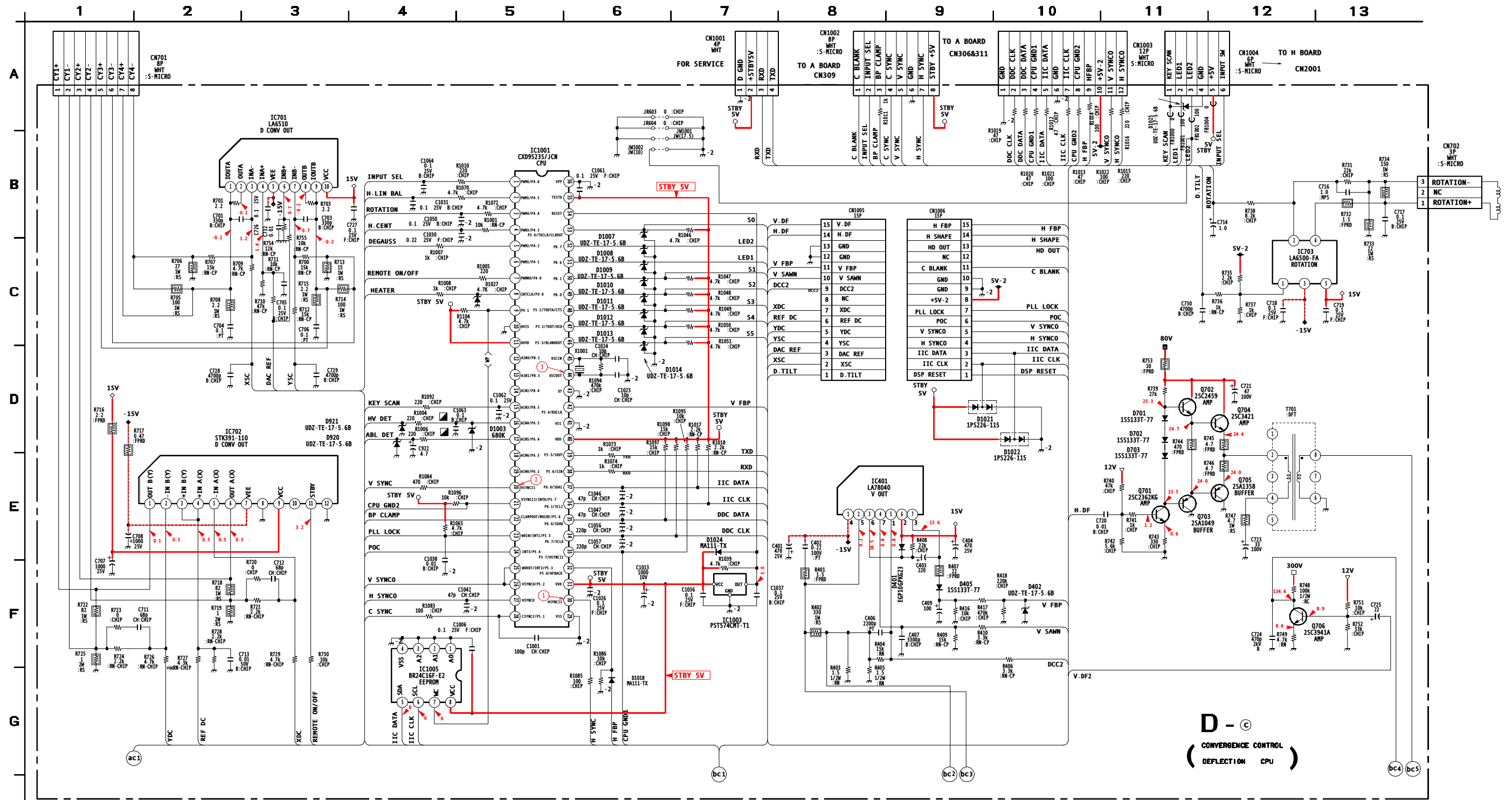


D BOARD IC VOLTAGE LIST

IC501		6	5.0	13	0
pin	volt	7	0	14	4.5
1	11.9	8	0	15	0
2	11.9	9	4.1	16	3.4
3	6.1	10	4.4	17	9.1
4	0	11	3.2	18	9.1
5	8.0	12	3.2		

All Voltages are in V

D Board Schematic Diagram (3/3)

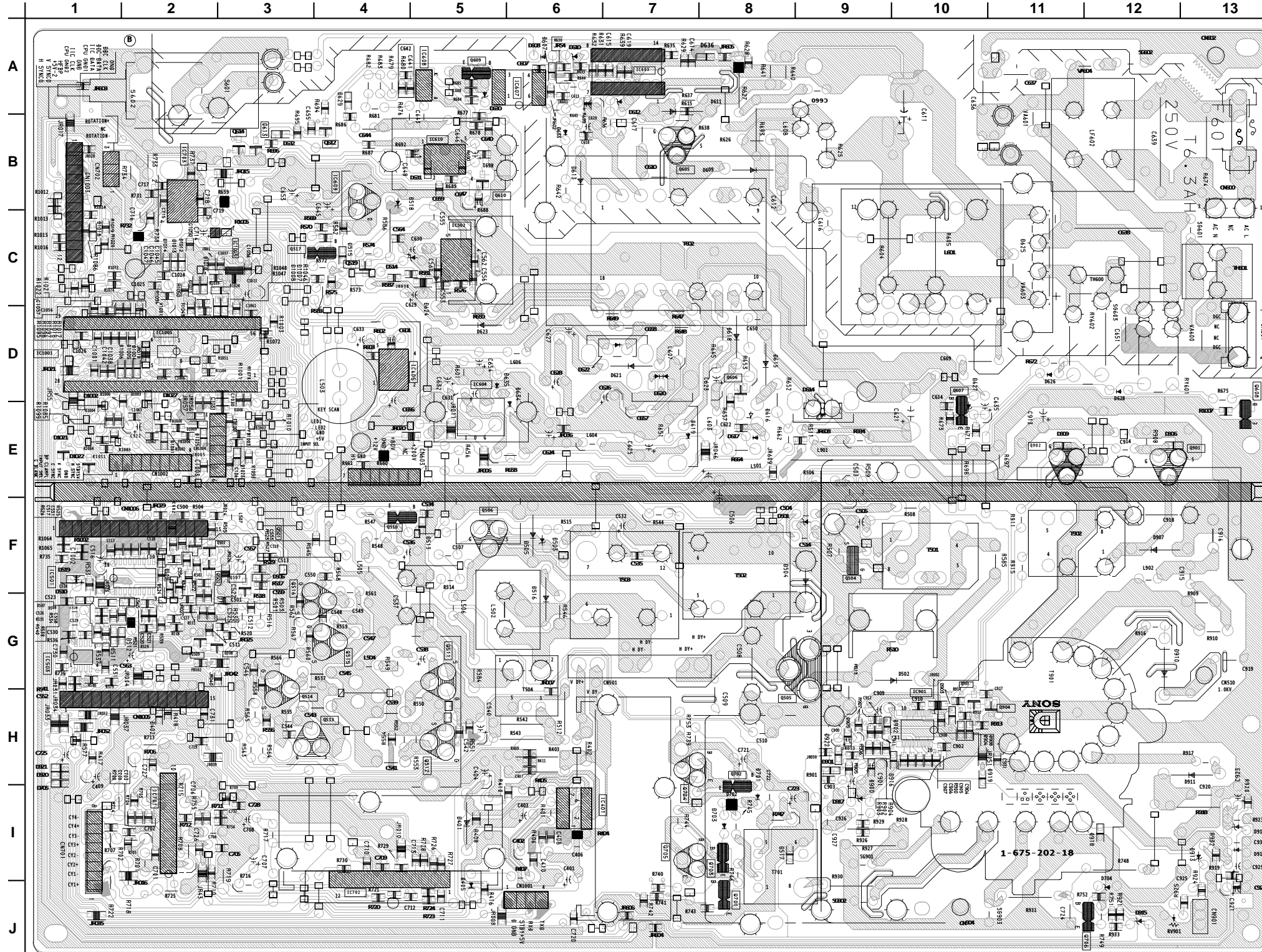


D BOARD IC VOLTAGE LIST

IC1001		7	5.0	15	4.9	23	5.0	30	0.4	37	4.7	44	2.4	51	0
pin	volt	8	5.0	16	4.0	24	4.7	31	5.0	38	0.7	45	2.4	52	5.0
1	0	9	5.0	17	3.4	25	0	32	0.44	39	5.0	46	0	53	0
2	1.6	10	0	18	5.0	26	0	33	0	40	5.0	47	0	54	5.0
3	2.5	11	5.0	19	0	27	0.37	34	4.8	41	0	48	5.0	55	5.0
4	3.3	12	0	20	0.3	28	3.1	35	5.0	42	3.5	49	0	56	0
5	0	13	0	21	5.0	29	0	36	4.5	43	0	50	0		
6	0	14	0	22	0.1										

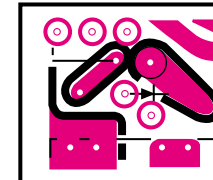
All Voltages are in V

D [POWER DEFLECTION]



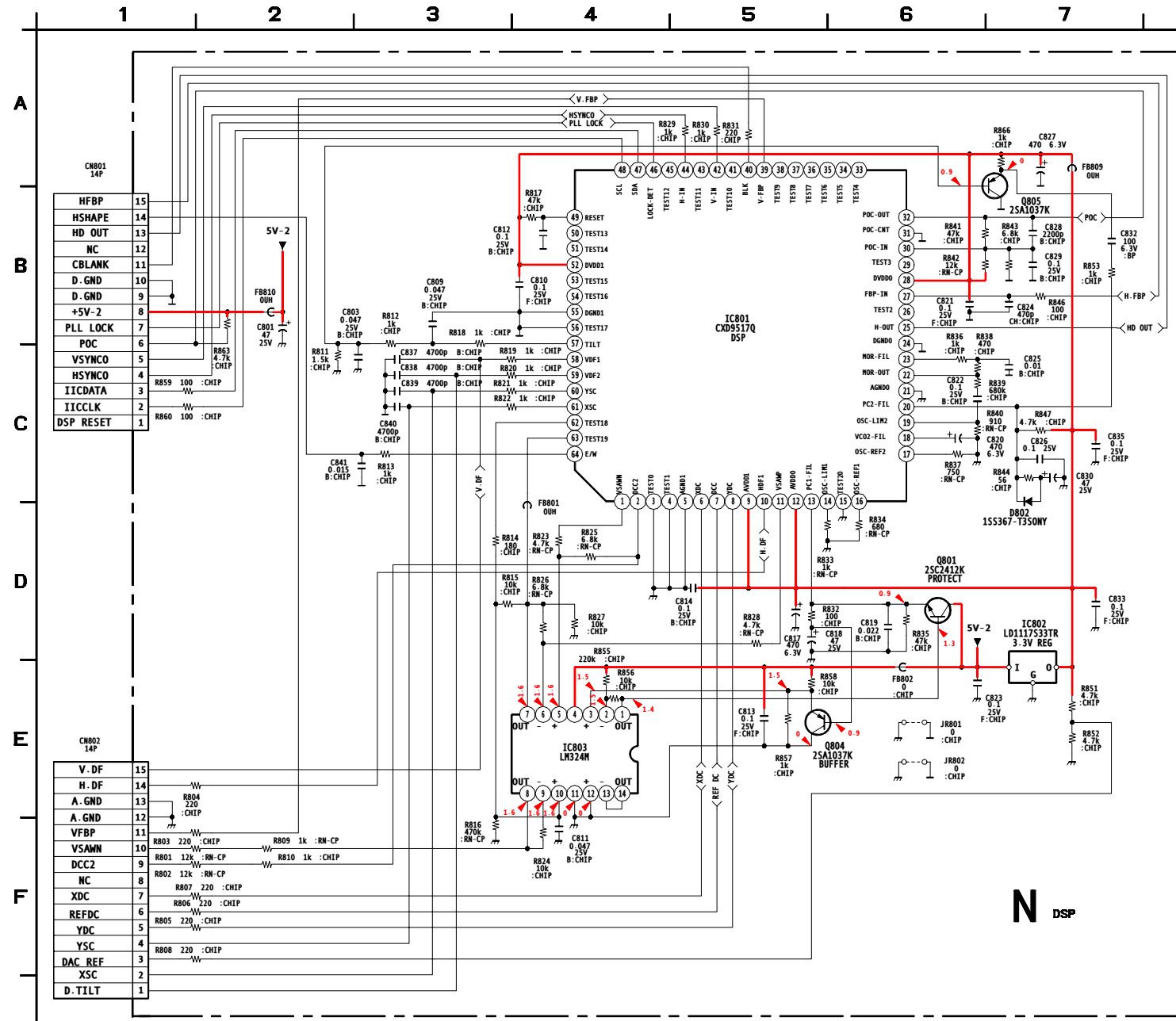
D BOARD LOCATION LIST

DIODE		D635	D - 5	IC608	A - 5
D401	I - 5	D701	H - 8	IC609	B - 4
D405	I - 5	D702	H - 8	IC610	B - 5
D501	F - 8	D703	I - 8	IC701	I - 2
D502	G - 10	D901	H - 9	IC702	J - 4
D503	F - 6	D903	H - 10	IC703	B - 2
D504	F - 8	D904	H - 10	IC901	G - 10
D505	F - 6	D906	E - 12	IC1001	D - 1
D506	F - 3	D907	F - 12	IC1003	C - 3
D507	G - 1	D908	H - 10	IC1005	D - 2
D508	G - 1	D909	E - 11	TRANSISTOR	
D509	F - 2	D910	G - 12	Q501	F - 3
D510	F - 1	D911	H - 13	Q502	F - 2
D511	G - 1	D912	I - 13	Q503	F - 2
D512	G - 1	D913	I - 13	Q504	F - 9
D514	C - 4	D914	I - 13	Q505	H - 8
D515	C - 4	D915	J - 12	Q506	F - 5
D516	F - 6	D916	I - 12	Q507	F - 3
D517	I - 8	D917	I - 9	Q508	G - 3
D518	B - 4	D920	H - 1	Q509	G - 2
D519	C - 4	D921	H - 1	Q510	F - 4
D608	A - 6	D1001	E - 2	Q511	G - 5
D609	B - 8	D1003	D - 2	Q512	H - 5
D610	A - 6	D1007	C - 3	Q513	H - 4
D611	A - 8	D1008	C - 3	Q514	H - 3
D612	A - 7	D1009	E - 2	Q515	G - 4
D613	B - 6	D1010	C - 2	Q516	F - 3
D614	D - 9	D1011	C - 2	Q517	C - 3
D615	D - 8	D1012	C - 2	Q519	C - 4
D616	E - 8	D1013	C - 2	Q605	B - 7
D617	E - 8	D1014	C - 2	Q606	D - 8
D618	D - 8	D1018	C - 1	Q607	D - 10
D619	E - 7	D1021	E - 1	Q608	D - 13
D620	D - 7	D1022	E - 1	Q609	B - 4
D621	D - 7	D1024	C - 3	Q701	I - 8
D622	D - 6	D1025	E - 2	Q702	H - 8
D623	D - 4	IC		Q703	I - 8
D624	C - 5	IC401	I - 6	Q704	I - 7
D625	C - 11	IC501	F - 1	Q705	I - 7
D626	D - 11	IC502	C - 5	Q706	J - 11
D627	D - 10	IC503	G - 1	Q901	E - 13
D628	D - 12	IC603	A - 7	Q902	E - 11
D629	A - 3	IC604	D - 5	Q903	G - 10
D630	A - 5	IC605	D - 4	Q904	H - 11
D634	D - 5	IC607	A - 6		



NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

N Board Schematic Diagram

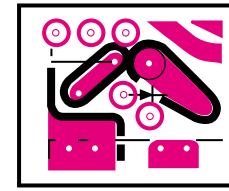


CN801 14P	
15	HFBP
14	HSHAPE
13	HD OUT
12	NC
11	CBLANK
10	D. GND
9	D. GND
8	+5V-2
7	PLL LOCK
6	POC
5	VSYNCO
4	HSYNCO
3	IICDATA
2	IICCLK
1	DSP RESET
CN802 14P	
15	V. DF
14	H. DF
13	A. GND
12	A. GND
11	VFBP
10	VSAWN
9	DCC2
8	NC
7	XDC
6	REFDC
5	YDC
4	YSC
3	DAC. REF
2	XSC
1	D. TILT

N BOARD IC VOLTAGE LIST

IC801		10	1.6	21	GND	32	NC	43	NC	54	NC
pin	volt	11	1.6	22	0	33	NC	44	0.4	55	0
1	1.6	12	3.3	23	0	34	NC	45	NC	56	0
2	1.6	13	0.9	24	GND	35	NC	46	5.0	57	1.6
3	0	14	0.9	25	1.6	36	NC	47	4.6	58	1.9
4	0	15	GND	26	NC	37	NC	48	4.4	59	1.6
5	1.6	16	0.9	27	0.3	38	NC	49	5.0	60	1.6
6	1.6	17	1.0	28	3.3	39	3.5	50	NC	61	1.6
7	1.6	18	1.0	29	NC	40	0.4	51	NC	62	1.6
8	1.6	19	1.0	30	1.5	41	NC	52	3.3	63	1.6
9	3.3	20	1.0	31	GND	42	0	53	NC	64	1.8

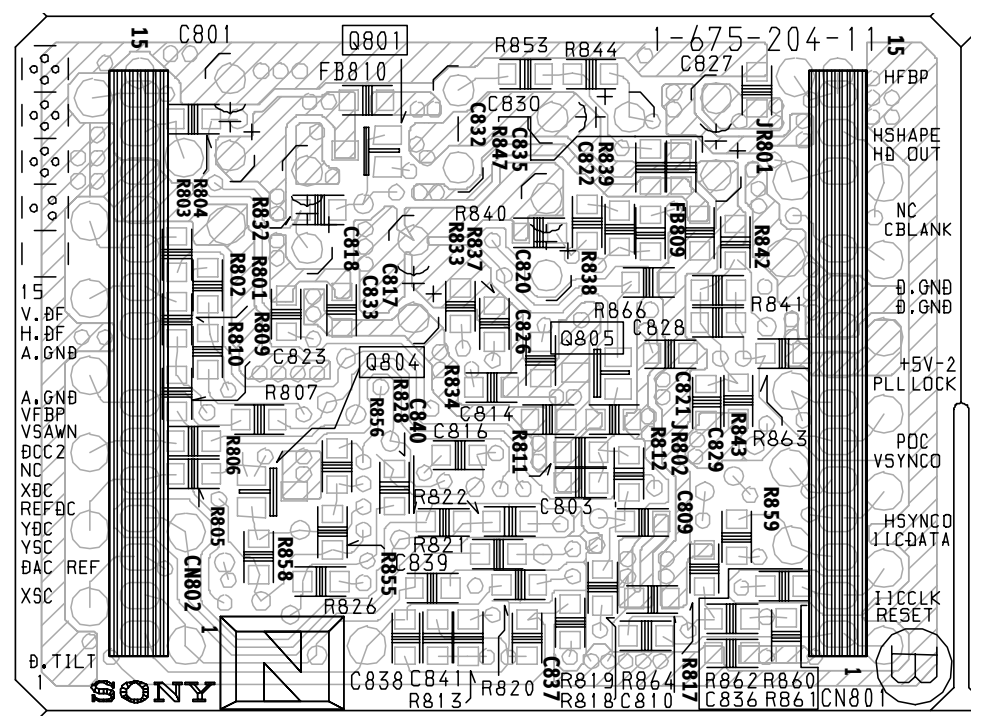
All Voltages are in V



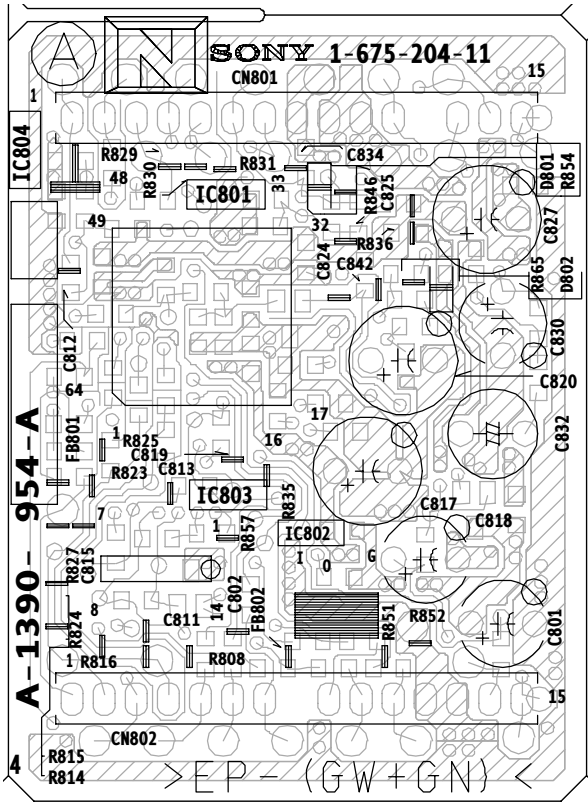
NOTE:
Portions of this circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.



<CONDUCTOR SIDE>



<COMPONENT SIDE>



SECTION 6 EXPLODED VIEWS

P991

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

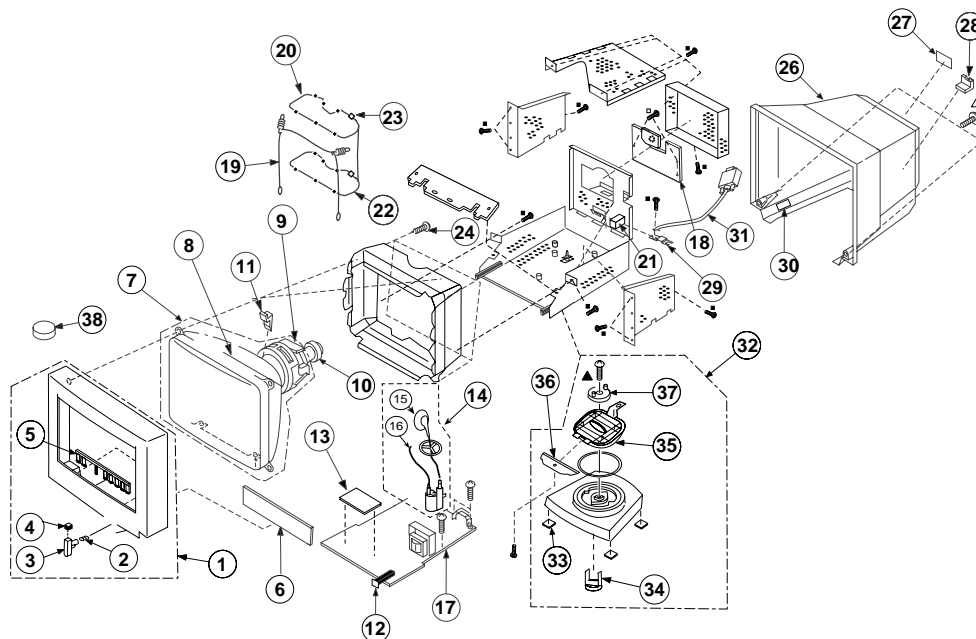
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

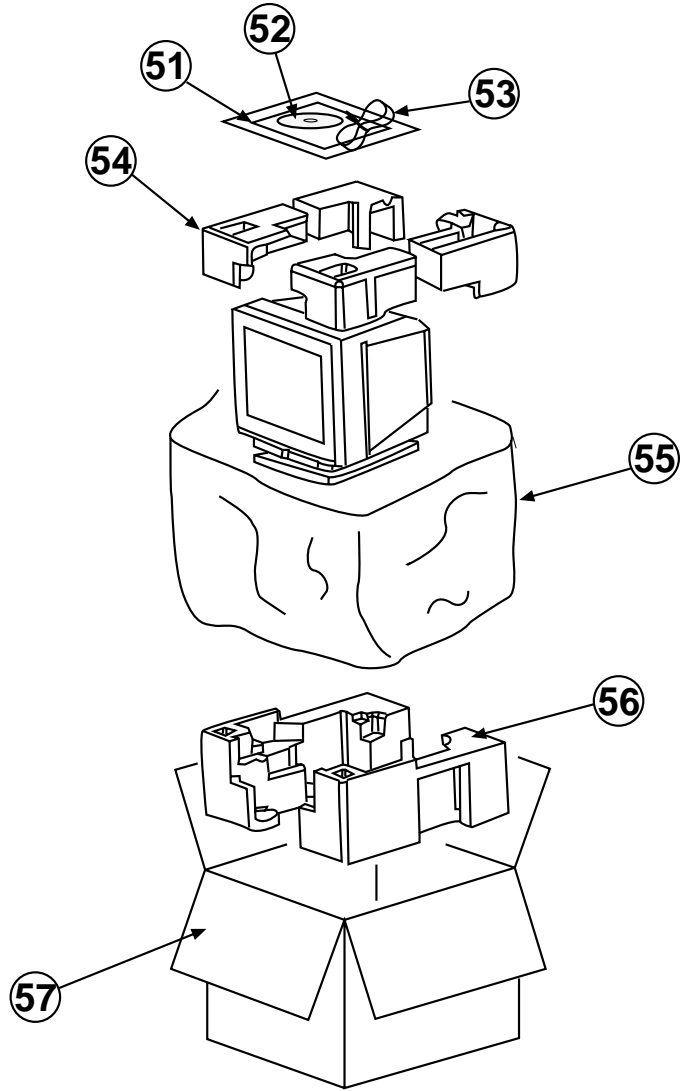
6-1. CHASSIS

- \blacktriangle 7-685-882-09 SCREW +BVTT 4X10 (S)
- \blacksquare 7-685-881-09 SCREW +BVTT 4X8 (S)
- \triangle 4-039-358-01 SCREW +BVTP 4X16
- \square 7-685-872-09 SCREW +BVTT 3X8 (S)



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1 *	X-4038-329-1	BEZEL ASSY (Midnight Gray)	2-5	19 *	4-073-160-01	SPRING, TENSION	
1 *	X-4037-299-3	BEZEL ASSY (Pearl White)	2-5	20 \triangle	1-419-285-11	COIL, DEGAUSSING	
2	3-653-339-21	SPRING, COMPRESSION		21	1-251-382-31	AC INLET, 3P	
3	4-071-964-31	BUTTON, POWER (Midnight Gray)		22	4-071-175-01	HOLDER, DEGAUSSING COIL	
3	4-071-964-11	BUTTON, POWER (Pearl White)		23	4-041-021-02	HOLDER, DEGAUSE COIL	
4	4-073-345-01	GUIDE, LIGHT		24	4-203-648-01	SCREW (5), TAPPING	
5	4-073-344-21	BUTTON, MULTI (Midnight Gray)		26 *	4-073-340-31	CABINET (Midnight Gray)	
5	4-073-344-02	BUTTON, MULTI (Pearl White)		26 *	4-073-340-01	CABINET (Pearl White)	
6 *	A-1372-824-A	H BOARD, COMPLETE		27 *	4-073-261-11	LABEL, INFORMATION (Bridge PFC/Mid. Gray)	
7 \triangle	8-736-407-61	ITC ASSEMBLY (19TKC-R1)		27 *	4-073-261-21	LABEL, INFORMATION (PFC/Pearl White)	
8 \triangle	8-736-410-05	CRT (19TKC) (M46LRR50X)		27	4-073-261-31	LABEL, INFORMATION (Bridge/Mid. Gray)	
9 \triangle	1-451-516-11	DY Y19TKK-K		28 *	4-073-341-31	COVER, CABLE (Midnight Gray)	
10 \triangle	1-452-912-61	NECK ASSEMBLY (NA-2914)		28 *	4-073-341-02	COVER, CABLE (Pearl White)	
11	4-040-897-01	SPACER, DY		29 *	4-045-131-11	STOPPER, CABLE	
12	4-073-342-02	CAP, POWER		30 *	4-063-246-41	COVER, CONNECTOR (Midnight Gray)	
13 *	A-1391-045-A	N BOARD, COMPLETE		30 *	4-063-246-21	COVER, CONNECTOR (Pearl White)	
14 \triangle	1-453-317-11	FBT ASSY, NX-4700//X4E4	15-16	31 *	1-791-754-11	CABLE ASSY (15PDSUB CONNECTOR)	
15 \triangle	1-251-821-42	CAP ASSY, HIGH-VOLTAGE		32	X-4038-330-1	BASE ASSY, STAND (Midnight Gray)	33-37
16 \triangle	1-900-238-31	CONNECTOR ASSY		32	X-4037-590-2	BASE ASSY, STAND (Pearl White)	33-37
17 *	A-1346-998-A	D BOARD, COMPLETE (Bridge model only)		33 *	4-060-533-01	CUSHION	
17 *	A-1346-944-E	D BOARD, COMPLETE (PFC/Bridge PFC models only)		34	4-072-648-01	STOPPER, B	
18 *	A-1299-239-A	A BOARD, COMPLETE		35	4-071-961-61	SLIDER (Midnight Gray)	
		The high voltage leads associated with the FBT on this board are not included and must be ordered separately.		35	4-071-961-31	SLIDER (Pearl White)	
				36	4-073-997-01	SUPPORT, SLIDER	
				37	4-045-121-01	STOPPER (A), STAND	
				38	1-452-032-00	MAGNET, DISC	

6-2. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
51 *	3-867-831-21	MANUAL, QUICK SETUP	
52 *	1-772-492-21	DELL, SET UP CD (Bridge Mid. Gray)	
53 △	1-790-662-11	CORD SET, POWER	
54 *	4-073-278-01	CUSHION ASSY, UPPER	
55 *	4-060-490-01	BAG, POLYETHYLENE	
56 *	4-073-273-02	CUSHION ASSY, LOWER	
57 *	4-073-276-01	CARTON, INDIVIDUAL	

SECTION 7 ELECTRICAL PARTS LIST



Note:

The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked with an asterisk "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
A							
*A-1299-239-A A BOARD, COMPLETE							
	4-382-854-01	SCREW (M3X8), P, SW (+)					
CAPACITOR							
C001	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C045	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C002	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C046	1-164-346-11	CERAMIC CHIP	1µF 16V
C003	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C047	1-165-319-11	CERAMIC CHIP	0.1µF 50V
C004	1-104-664-11	ELECT	47µF 20% 25V	C053	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C007	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C054	1-136-189-00	MYLAR	0.1µF 10% 250V
C009	1-126-964-11	ELECT	10µF 20% 50V	C056	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C010	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C059	1-164-346-11	CERAMIC CHIP	1µF 16V
C011	1-106-220-00	MYLAR	0.1µF 10% 100V	C060	1-104-664-11	ELECT	47µF 20% 25V
C012	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C061	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C013	1-107-888-11	ELECT	47µF 20% 25V	C063	1-126-964-11	ELECT	10µF 20% 50V
C014	1-107-932-11	ELECT	47µF 20% 100V	C066	1-163-009-11	CERAMIC CHIP	0.001µF 10% 50V
C015	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C070	1-165-319-11	CERAMIC CHIP	0.1µF 50V
C016	1-126-935-11	ELECT	470µF 20% 16V	C092	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C018	1-107-652-11	ELECT	10µF 20% 250V	C093	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C020	1-126-935-11	ELECT	470µF 20% 16V	C095	1-126-935-11	ELECT	470µF 20% 16V
C021	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C097	1-163-113-00	CERAMIC CHIP	68pF 5% 50V
C022	1-126-934-11	ELECT	220µF 20% 10V	C104	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C027	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V	C105	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C028	1-104-664-11	ELECT	47µF 20% 25V	C106	1-117-450-11	MYLAR	0.47µF 10% 250V
C029	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C108	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C031	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C111	1-163-037-11	CERAMIC CHIP	0.022µF 10% 50V
C032	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C112	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V
C033	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C121	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C035	1-162-134-11	CERAMIC CHIP	470pF 10% 2KV	C122	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C037	1-136-177-00	FILM	1µF 5% 50V	C123	1-136-189-00	MYLAR	0.1µF 10% 250V
C038	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V	C130	1-164-489-11	CERAMIC CHIP	0.22µF 10% 16V
C039	1-165-319-11	CERAMIC CHIP	0.1µF 50V	C152	1-126-933-11	ELECT	100µF 20% 16V
C041	1-162-318-11	CERAMIC CHIP	0.001µF 10% 500V	C204	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C042	1-165-319-11	CERAMIC CHIP	0.1µF 50V	C205	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C043	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V	C206	1-117-450-11	MYLAR	0.47µF 10% 250V
				C208	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
				C211	1-163-037-11	CERAMIC CHIP	0.022µF 10% 50V
				C212	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
				C221	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
				C222	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
				C223	1-136-189-00	MYLAR	0.1µF 10% 250V
				C230	1-164-489-11	CERAMIC CHIP	0.22µF 10% 16V
				C252	1-126-933-11	ELECT	100µF 20% 16V
				C304	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C305	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V				
C306	1-117-450-11	MYLAR	0.47 μ F 10% 250V				
C308	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V				
C311	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V				
C312	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V				
C321	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V				
C322	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V				
C323	1-136-189-00	MYLAR	0.1 μ F 10% 250V				
C330	1-164-489-11	CERAMIC CHIP	0.22 μ F 10% 16V				
C352	1-126-933-11	ELECT	100 μ F 20% 16V				
<u>CONNECTOR</u>							
CN301	1-764-101-11	PIN, CONNECTOR (PC BOARD)	2P				
CN302	1-695-915-11	TAB (CONTACT)					
CN303	1-695-915-11	TAB (CONTACT)					
CN305*	1-564-522-11	PLUG, CONNECTOR	7P				
CN306*	1-564-511-11	PLUG, CONNECTOR	8P				
CN308	1-695-915-11	TAB (CONTACT)					
CN309*	1-564-511-11	PLUG, CONNECTOR	8P				
CN310*	1-779-944-21	PIN, CONNECTOR (PC BOARD)	4P				
CN311*	1-564-507-11	PLUG, CONNECTOR	4P				
<u>DIODE</u>							
D002	8-719-109-89	DIODE NNCD5.6A-T1					
D004	8-719-109-89	DIODE NNCD5.6A-T1					
D005	8-719-062-51	DIODE 1PS226-115					
D007	8-719-109-89	DIODE MTZJ-T-77-5.6B					
D008	8-719-109-89	DIODE MTZJ-T-77-5.6B					
D014	8-719-911-19	DIODE 1SS119-25TD					
D023	8-719-921-54	DIODE MTZJ-T-77-6.2					
D024	8-719-921-54	DIODE MTZJ-T-77-6.2					
D025	8-719-921-54	DIODE MTZJ-T-77-6.2					
D026	8-719-911-19	DIODE 1SS119-25TD					
D104	8-719-052-12	DIODE 1SS376TE-17					
D105	8-719-052-12	DIODE 1SS376TE-17					
D106	8-719-052-12	DIODE 1SS376TE-17					
D108	8-719-062-51	DIODE 1PS226-115					
D111	8-719-062-51	DIODE 1PS226-115					
D204	8-719-052-12	DIODE 1SS376TE-17					
D205	8-719-052-12	DIODE 1SS376TE-17					
D206	8-719-052-12	DIODE 1SS376TE-17					
D208	8-719-062-51	DIODE 1PS226-115					
D211	8-719-062-51	DIODE 1PS226-115					
D304	8-719-052-12	DIODE 1SS376TE-17					
D305	8-719-052-12	DIODE 1SS376TE-17					
D306	8-719-052-12	DIODE 1SS376TE-17					
D308	8-719-062-51	DIODE 1PS226-115					
D311	8-719-062-51	DIODE 1PS226-115					
						<u>FERRITE BEAD</u>	
				FB001	1-412-911-11	FERRITE	0 μ H
				FB002	1-412-911-11	FERRITE	0 μ H
				FB004	1-412-911-11	FERRITE	0 μ H
				FB005	1-412-911-11	FERRITE	0 μ H
				FB009	1-414-231-22	INDUCTOR	0 μ H
				FB010	1-414-231-22	INDUCTOR	0 μ H
				FB012	1-414-231-22	INDUCTOR	0 μ H
				FB014	1-216-295-11	SHORT	0
				FB015	1-414-231-22	INDUCTOR	0 μ H
				FB016	1-414-231-22	INDUCTOR	0 μ H
				FB017	1-414-231-22	INDUCTOR	0 μ H
				FB018	1-414-231-22	INDUCTOR	0 μ H
				FB019	1-414-231-22	INDUCTOR	0 μ H
				FB020	1-414-231-22	INDUCTOR	0 μ H
				FB021	1-414-231-22	INDUCTOR	0 μ H
				FB022	1-216-295-11	SHORT	0
				FB024	1-412-911-11	FERRITE	0 μ H
				FB101	1-216-295-11	SHORT	0
				FB102	1-216-295-11	SHORT	0
				FB104	1-412-911-11	FERRITE	0 μ H
				FB110	1-412-911-11	FERRITE	0 μ H
				FB201	1-216-295-11	SHORT	0
				FB202	1-216-295-11	SHORT	0
				FB210	1-412-911-11	FERRITE	0 μ H
				FB301	1-216-295-11	SHORT	0
				FB302	1-216-295-11	SHORT	0
				FB310	1-412-911-11	FERRITE	0 μ H
						<u>TERMINAL</u>	
				GT001*	1-537-738-21	TERMINAL, EARTH	
				GT002*	1-537-738-21	TERMINAL, EARTH	
						<u>IC</u>	
				IC001	8-759-599-70	IC MC13289ASP	
				IC002	8-759-591-40	IC LM2402T	
				IC003	8-759-639-50	IC CXD9522S	
				IC004	8-749-015-92	IC H8D2972	
				IC005	8-759-701-01	IC NJM2904M(TE2)	
				IC006	8-759-233-66	IC TC74HCT04F(EL)	
						<u>JACK</u>	
				J001 \triangle	1-451-499-11	SOCKET, CRT	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>CONDUCTOR</u>				R014	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
JR002	1-216-295-11	SHORT	0	R017	1-216-025-11	RES-CHIP	100 5% 1/10W
JR004	1-216-296-91	SHORT	0	R018	1-216-025-11	RES-CHIP	100 5% 1/10W
JR005	1-216-295-11	SHORT	0	R020	1-216-017-91	RES-CHIP	47 5% 1/10W
JR006	1-216-296-91	SHORT	0	R021	1-216-017-91	RES-CHIP	47 5% 1/10W
JR007	1-216-296-91	SHORT	0	R022	1-216-025-11	RES-CHIP	100 5% 1/10W
JR008	1-216-296-91	SHORT	0	R023	1-216-049-11	RES-CHIP	1K 5% 1/10W
JR010	1-216-295-11	SHORT	0	R024	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
JR011	1-216-295-11	SHORT	0	R025	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
JR012	1-216-296-91	SHORT	0	R027	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
JR013	1-216-295-11	SHORT	0	R029	1-216-097-11	RES-CHIP	100K 5% 1/10W
JR014	1-216-295-11	SHORT	0	R030	1-216-025-11	RES-CHIP	100 5% 1/10W
JR015	1-216-295-11	SHORT	0	R031	1-216-049-11	RES-CHIP	1K 5% 1/10W
JR020	1-216-296-91	SHORT	0	R032	1-216-025-11	RES-CHIP	100 5% 1/10W
JR021	1-216-296-91	SHORT	0	R033	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
JR022	1-216-296-91	SHORT	0	R034	1-216-295-11	SHORT	0
JR023	1-216-296-91	SHORT	0	R040	1-216-129-00	RES-CHIP	2.2M 5% 1/10W
JR024	1-216-296-91	SHORT	0	R044	1-216-073-00	RES-CHIP	10K 5% 1/10W
JR025	1-216-295-11	SHORT	0	R045	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
JR027	1-216-295-11	SHORT	0	R047	1-216-073-00	RES-CHIP	10K 5% 1/10W
JR028	1-216-295-11	SHORT	0	R048	1-219-398-51	METAL CHIP	2.2M 5% 1W
JR029	1-216-296-91	SHORT	0	R049	1-216-093-91	RES-CHIP	68K 5% 1/10W
JR032	1-216-295-11	SHORT	0	R050	1-216-121-11	RES-CHIP	1M 5% 1/10W
JR033	1-216-296-91	SHORT	0	R053	1-219-621-91	METAL CHIP	22M 10% 1/4W
JR034	1-216-296-91	SHORT	0	R060	1-414-231-22	INDUCTOR	0μH
<u>COIL</u>				R064	1-219-749-91	CARBON	10K 5% 1/2W
L004	1-412-529-11	INDUCTOR	22μH	R078	1-216-089-11	RES-CHIP	47K 5% 1/10W
L005	1-412-537-31	INDUCTOR	100μH	R079	1-216-089-11	RES-CHIP	47K 5% 1/10W
L006	1-412-541-41	INDUCTOR	220μH	R080	1-216-049-11	RES-CHIP	1K 5% 1/10W
L007	1-408-615-31	INDUCTOR	100μH	R081	1-216-049-11	RES-CHIP	1K 5% 1/10W
<u>TRANSISTOR</u>				R082	1-216-089-11	RES-CHIP	47K 5% 1/10W
Q001	8-729-032-61	TRANSISTOR 2SC5022-02		R095	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q002	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R096	1-216-033-00	RES-CHIP	220 5% 1/10W
Q003	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R097	1-218-179-11	RES-CHIP	10M 5% 1/10W
Q006	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R098	1-218-179-11	RES-CHIP	10M 5% 1/10W
<u>RESISTOR</u>				R099	1-208-291-11	RES-CHIP	4.7M 5% 1/10W
R004	1-216-037-00	RES-CHIP	330 5% 1/10W	R104	1-216-009-91	RES-CHIP	22 5% 1/10W
R005	1-216-041-00	RES-CHIP	470 5% 1/10W	R106	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R006	1-216-025-11	RES-CHIP	100 5% 1/10W	R107	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R007	1-216-025-11	RES-CHIP	100 5% 1/10W	R108	1-216-049-11	RES-CHIP	1K 5% 1/10W
R009	1-216-073-00	RES-CHIP	10K 5% 1/10W	R109	1-216-041-00	RES-CHIP	470 5% 1/10W
R011	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R110	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R012	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R111	1-249-404-00	CARBON	82 5% 1/4W
R013	1-216-025-11	RES-CHIP	100 5% 1/10W	R115	1-216-107-00	RES-CHIP	270K 5% 1/10W
				R117	1-216-025-11	RES-CHIP	100 5% 1/10W
				R118	1-216-025-11	RES-CHIP	100 5% 1/10W
				R119	1-216-113-00	RES-CHIP	470K 5% 1/10W
				R120	1-216-113-00	RES-CHIP	470K 5% 1/10W
				R122	1-216-113-00	RES-CHIP	470K 5% 1/10W
				R123	1-216-037-00	RES-CHIP	330 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R130	1-216-295-11	SHORT	0				
R133	1-216-295-11	SHORT	0				
R151	1-247-735-11	SOLID	47	5%	1/2W		
R161	1-215-394-00	METAL CHIP	75	1%	1/4W		
R204	1-216-009-91	RES-CHIP	22	5%	1/10W		
R206	1-216-071-00	RES-CHIP	8.2K	5%	1/10W		
R207	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R208	1-216-049-11	RES-CHIP	1K	5%	1/10W		
R209	1-216-041-00	RES-CHIP	470	5%	1/10W		
R210	1-216-071-00	RES-CHIP	8.2K	5%	1/10W		
R211	1-249-405-11	CARBON	100	5%	1/4W		
R215	1-216-107-00	RES-CHIP	270K	5%	1/10W		
R217	1-216-025-11	RES-CHIP	100	5%	1/10W		
R218	1-216-033-00	RES-CHIP	220	5%	1/10W		
R219	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R220	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R222	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R223	1-216-037-00	RES-CHIP	330	5%	1/10W		
R230	1-216-295-11	SHORT	0				
R233	1-216-295-11	SHORT	0				
R251	1-247-735-11	SOLID	47	5%	1/2W		
R261	1-215-394-00	METAL CHIP	75	1%	1/4W		
R304	1-216-009-91	RES-CHIP	22	5%	1/10W		
R306	1-216-071-00	RES-CHIP	8.2K	5%	1/10W		
R307	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R308	1-216-049-11	RES-CHIP	1K	5%	1/10W		
R309	1-216-041-00	RES-CHIP	470	5%	1/10W		
R310	1-216-071-00	RES-CHIP	8.2K	5%	1/10W		
R311	1-249-405-11	CARBON	100	5%	1/4W		
R315	1-216-107-00	RES-CHIP	270K	5%	1/10W		
R317	1-216-025-11	RES-CHIP	100	5%	1/10W		
R318	1-216-033-00	RES-CHIP	220	5%	1/10W		
R319	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R320	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R322	1-216-113-00	RES-CHIP	470K	5%	1/10W		
R323	1-216-037-00	RES-CHIP	330	5%	1/10W		
R330	1-216-295-11	SHORT	0				
R333	1-216-295-11	SHORT	0				
R351	1-247-735-11	SOLID	47	5%	1/2W		
R361	1-215-394-00	METAL CHIP	75	1%	1/4W		
SPARK GAP							
SG001 \triangle	1-519-422-11	GAP, SPARK					
SG002 \triangle	1-519-421-11	GAP, DISCHARGE					
SG101 \triangle	1-519-421-11	GAP, DISCHARGE					
SG201 \triangle	1-519-421-11	GAP, DISCHARGE					
SG301 \triangle	1-519-421-11	GAP, DISCHARGE					
						CRYSTAL	
						X001	1-781-472-21 VIBRATOR, CERAMIC CHIP
						D	
						* A-1346-998-A D BOARD, COMPLETE	
						The high voltage leads associated with the FBT on this board are not included and must be ordered separately.	
						Order the following leads when requesting this D Board:	
						1-251-821-42	HV CAP ASSY
						1-900-238-31	CONNECTOR ASSY
						1-533-223-11	CLIP, FUSE
						4-382-854-01	SCREW (M3X8), P, SW (+)
						4-382-854-11	SCREW (M3X10), P, SW (+)
						4-382-854-21	SCREW (M3X14), P, SW (+)
						CAPACITOR	
						C401	1-128-730-91 ELECT 470 μ F 20% 25V
						C402	1-137-401-11 MYLAR 0.22 μ F 10% 100V
						C403	1-128-749-91 ELECT 220 μ F 20% 50V
						C404	1-128-730-91 ELECT 470 μ F 20% 25V
						C406	1-137-366-11 MYLAR 0.0022 μ F 5% 50V
						C407	1-164-182-11 CERAMIC CHIP 0.0033 μ F 10% 50V
						C409	1-126-968-11 ELECT 100 μ F 20% 50V
						C500	1-163-259-91 CERAMIC CHIP 220pF 5% 50V
						C501	1-163-038-11 CERAMIC CHIP 0.1 μ F 25V
						C503	1-137-150-11 MYLAR 0.01 μ F 5% 50V
						C504	1-137-368-11 MYLAR .0047 μ F 5% 50V
						C505	1-128-729-91 ELECT 330 μ F 20% 25V
						C506	1-127-810-51 ELECT 33 μ F 20% 250V
						C507	1-136-187-11 MYLAR 0.047 μ F 10% 250V
						C508	1-117-959-11 FILM 4700pF 3% 1.8KV
						C509	1-107-444-11 CERAMIC CHIP 100pF 5% 2KV
						C510	1-136-684-51 MYLAR 0.0022 μ F 10% 100V
						C511	1-163-038-11 CERAMIC CHIP 0.1 μ F 25V
						C512	1-102-114-00 CERAMIC CHIP 470pF 10% 50V
						C513	1-163-038-11 CERAMIC CHIP 0.1 μ F 25V
						C514	1-137-368-11 MYLAR .0047 μ F 5% 50V
						C515	1-163-021-91 CERAMIC CHIP 0.01 μ F 10% 50V
						C516	1-126-382-11 ELECT 100 μ F 20% 16V
						C517	1-163-263-11 CERAMIC CHIP 330pF 5% 50V
						C518	1-164-004-11 CERAMIC CHIP 0.1 μ F 10% 25V
						C520	1-163-024-00 CERAMIC CHIP 0.018 μ F 10% 50V
						C521	1-163-037-11 CERAMIC CHIP 0.022 μ F 10% 50V
						C522	1-126-965-11 ELECT 22 μ F 20% 50V
						C523	1-163-021-91 CERAMIC CHIP 0.01 μ F 10% 50V
						C524	1-126-382-11 ELECT 100 μ F 20% 16V
						C525	1-163-038-11 CERAMIC CHIP 0.1 μ F 25V



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C527	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V	C615	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C528	1-130-489-00	MYLAR	0.033 μ F 5% 50V	C616	1-102-228-00	CERAMIC CHIP	470pF 10% 500V
C529	1-137-150-11	MYLAR	0.01 μ F 5% 50V	C617	1-117-769-91	CERAMIC CHIP	680pF 10% 2KV
C530	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C618	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C531	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C619	1-163-019-00	CERAMIC CHIP	0.0068 μ F 10% 50V
C532	1-107-906-11	ELECT	10 μ F 20% 50V	C620	1-128-551-11	ELECT	22 μ F 20% 25V
C533	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V	C621	1-131-723-21	ELECT(BLOCK)	220 μ F 20% 250V
C534	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C622	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C535	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C623	1-107-933-11	ELECT	100 μ F 20% 100V
C536	1-107-665-11	ELECT	0.47 μ F 20% 400V	C624	1-104-666-11	ELECT	220 μ F 20% 25V
C537	1-107-770-11	FILM	0.16 μ F 3% 400V	C625	1-115-789-11	ELECT	0.001F 20% 25V
C538	1-107-651-11	ELECT	4.7 μ F 20% 250V	C626	1-115-791-11	ELECT	0.0018F 20% 25V
C539	1-117-673-11	FILM	1.5 μ F 5% 250V	C627	1-115-789-11	ELECT	0.001F 20% 25V
C540	1-107-888-11	ELECT	47 μ F 20% 25V	C628	1-107-890-11	ELECT	2200 μ F 20% 25V
C541	1-109-844-11	FILM	0.68 μ F 5% 250V	C629	1-126-935-11	ELECT	470 μ F 20% 16V
C542	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C630	1-126-935-11	ELECT	470 μ F 20% 16V
C543	1-117-665-11	FILM	0.33 μ F 5% 250V	C631	1-128-526-11	ELECT	100 μ F 20% 25V
C544	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C632	1-104-653-11	ELECT	220 μ F 20% 16V
C545	1-117-661-21	FILM	0.15 μ F 5% 250V	C633	1-126-934-11	ELECT	220 μ F 20% 10V
C546	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C634	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C547	1-119-860-11	FILM	0.082 μ F 5% 250V	C635	1-126-965-11	ELECT	22 μ F 20% 50V
C548	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C636 Δ	1-113-900-11	CERAMIC CHIP	470pF 10% 250V
C549	1-117-953-91	FILM	0.033 μ F 5% 400V	C637 Δ	1-113-900-11	CERAMIC CHIP	470pF 10% 250V
C550	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C638 Δ	1-104-708-11	MYLAR	0.47 μ F 20% 250V
C551	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C639	1-104-708-11	MYLAR	0.47 μ F 20% 250V (Bridge model only)
C553	1-163-017-00	CERAMIC CHIP	.0047 μ F 10% 50V	C640	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C554	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C641	1-163-007-11	CERAMIC CHIP	680pF 10% 50V
C555	1-137-194-81	FILM	0.47 μ F 5% 50V	C642	1-163-017-00	CERAMIC CHIP	.0047 μ F 10% 50V
C556	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C644	1-136-187-11	MYLAR	0.047 μ F 10% 250V
C557	1-126-935-11	ELECT	470 μ F 20% 16V	C645	1-126-934-11	ELECT	220 μ F 20% 16V
C558	1-163-007-11	CERAMIC CHIP	680pF 10% 50V	C646	1-107-882-91	ELECT	100 μ F 20% 16V
C559	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C647	1-107-882-91	ELECT	100 μ F 20% 16V
C560	1-109-982-11	CERAMIC CHIP	1 μ F 10% 10V	C648	1-107-906-11	ELECT	10 μ F 20% 50V
C562	1-163-001-11	CERAMIC CHIP	220pF 10% 50V	C650	1-162-117-00	CERAMIC CHIP	100pF 10% 500V
C563	1-113-340-11	ELECT	47 μ F 20% 25V	C653	1-126-942-61	ELECT	1000 μ F 20% 25V
C564	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C654	1-104-666-11	ELECT	220 μ F 20% 25V
C565	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C656	1-104-664-11	ELECT	47 μ F 20% 25V
C607	1-109-982-11	CERAMIC CHIP	1 μ F 10% 10V (PFC/Bridge PFC models only)	C657	1-162-318-11	CERAMIC CHIP	0.001 μ F 10% 500V
C607	1-216-295-11	CERAMIC CHIP	0 (Bridge model only)	C658	1-162-815-11	CERAMIC CHIP	47pF 5% 500V
C608	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C659	1-109-982-11	CERAMIC CHIP	1 μ F 10% 10V
C609 Δ	1-113-912-11	CERAMIC CHIP	.0047 μ F 20% 250V	C660	1-136-189-00	MYLAR	0.1 μ F 10% 250V
C610	1-117-769-91	CERAMIC CHIP	680pF 10% 2KV	C701	1-163-003-11	CERAMIC CHIP	330pF 10% 50V
C611	1-117-753-11	ELECT(BLOCK)	470 μ F 20% 450V	C703	1-163-003-11	CERAMIC CHIP	330pF 10% 50V
C612	1-131-985-21	FILM	0.033 μ F 5% 250V	C704	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C613	1-104-664-11	ELECT	47 μ F 20% 25V	C705	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C614	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V (PFC/Bridge PFC models only)	C706	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C614	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V (Bridge model only)	C707	1-126-942-61	ELECT	1000 μ F 20% 25V
				C708	1-126-942-61	ELECT	1000 μ F 20% 25V
				C711	1-163-113-00	CERAMIC CHIP	68pF 5% 50V



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC607 \triangle	8-749-016-35	IC TLP621D4-Y-LF2T		JR039	1-216-296-91	SHORT	0
IC608	8-759-586-17	IC TL1431CZ-AP		JR040	1-216-295-11	SHORT	0
IC609	8-759-450-47	IC BA05T		JR042	1-216-296-91	SHORT	0
IC610	8-759-592-79	IC BA00AST-V5		JR046	1-216-296-91	SHORT	0
IC701	8-759-822-38	IC LA6510		JR050	1-216-295-11	SHORT	0
IC702	8-749-015-00	IC STK391-110		JR051	1-216-296-91	SHORT	0
IC703	8-759-803-42	IC LA6500-FA		JR052	1-216-296-91	SHORT	0
IC901 \triangle	8-759-585-81	IC BA9758FS-E2		JR053	1-216-295-11	SHORT	0
IC1001	8-759-656-96	IC CXD9523S/JCN		JR602	1-216-295-11	SHORT	0
IC1003	8-759-420-77	IC PST574CMT-T1		JR603	1-216-295-11	SHORT	0
IC1005	8-759-641-86	IC BR24C16F-E2		JR604	1-216-295-11	SHORT	0
CONDUCTOR				COIL			
JR43	1-216-296-91	SHORT	0	L501	1-412-541-21	INDUCTOR	220 μ H
JR45	1-216-295-11	SHORT	0	L502	1-419-299-11	COIL, HORIZONTAL LINEARITY	
JR54	1-216-295-11	SHORT	0	L503	1-419-298-11	COIL, HORIZONTAL CENTER	
JR55	1-216-296-91	SHORT	0	L504	1-406-675-11	INDUCTOR	4.7MH
JR002	1-216-296-91	SHORT	0	L505	1-406-675-11	INDUCTOR	4.7MH
JR004	1-216-296-91	SHORT	0	L506	1-406-675-11	INDUCTOR	4.7MH
JR005	1-216-295-11	SHORT	0	L507	1-412-537-31	INDUCTOR	100 μ H
JR006	1-216-296-91	SHORT	0	L601	1-419-653-11	INDUCTOR	56MH
JR007	1-216-295-11	SHORT	0	(PFC/Bridge PFC models only)			
JR008	1-216-296-91	SHORT	0	L603	1-412-537-31	INDUCTOR	100 μ H
JR010	1-216-296-91	SHORT	0	L604	1-406-665-11	INDUCTOR	100 μ H
JR011	1-216-296-91	SHORT	0	L606	1-406-665-11	INDUCTOR	100 μ H
JR015	1-216-296-91	SHORT	0	L607	1-414-158-11	INDUCTOR	2.2 μ H
JR016	1-216-296-91	SHORT	0	L608	1-414-488-21	INDUCTOR	1.5 μ H
JR017	1-216-296-91	SHORT	0	L901	1-412-537-31	INDUCTOR	100 μ H
JR019	1-216-296-91	SHORT	0	L902	1-406-659-11	INDUCTOR	10 μ H
JR020	1-216-296-91	SHORT	0	FILTER			
JR021	1-216-296-91	SHORT	0	LF602 \triangle	1-429-180-11	TRANSFORMER, LINE FILTER	
JR022	1-216-295-11	SHORT	0	TRANSISTOR			
JR023	1-216-296-91	SHORT	0	Q501	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6	
JR024	1-216-295-11	SHORT	0	Q502	8-729-901-87	TRANSISTOR 2SC2411K-T-146-CQ	
JR025	1-216-295-11	SHORT	0	Q503	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
JR026	1-216-296-91	SHORT	0	Q504	8-729-042-34	TRANSISTOR IRFU110	
JR027	1-216-295-11	SHORT	0	Q505	8-729-050-12	TRANSISTOR 2SC5445(LBSONY1)	
JR028	1-216-295-11	SHORT	0	Q506	8-729-043-63	TRANSISTOR IRFI9634G-LF35	
JR029	1-216-295-11	SHORT	0	Q507	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
JR030	1-216-296-91	SHORT	0	Q508	8-729-901-87	TRANSISTOR 2SC2411K-T-146-CQ	
JR031	1-216-295-11	SHORT	0	Q509	8-729-901-97	TRANSISTOR 2SA1036K-T-146-Q	
JR032	1-216-296-91	SHORT	0	Q510	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
JR033	1-216-296-91	SHORT	0	Q511	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
JR034	1-216-296-91	SHORT	0	Q512	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
JR035	1-216-296-91	SHORT	0	Q513	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
JR036	1-216-295-11	SHORT	0				
JR037	1-216-296-91	SHORT	0				
JR038	1-216-296-91	SHORT	0				



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q514	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R515	1-249-425-11	CARBON 4.7K	5% 1/4W
Q515	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R516	1-249-425-11	CARBON 4.7K	5% 1/4W
Q516	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119		R517	1-216-089-11	RES-CHIP 47K	5% 1/10W
Q517	8-729-140-50	TRANSISTOR 2SC3209LK-TP		R518	1-216-033-00	RES-CHIP 220	5% 1/10W
Q519	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R519	1-216-025-11	RES-CHIP 100	5% 1/10W
Q605	8-729-050-14	TRANSISTOR 2SK3265(LB2SONY)		R520	1-216-033-00	RES-CHIP 220	5% 1/10W
Q606	8-729-900-53	TRANSISTOR DTC114EKA-T146		R521	1-247-807-31	CARBON 100	5% 1/4W
Q607	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R522	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q608	8-729-029-92	TRANSISTOR DTC143ESA-TP		R523	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
Q609	8-729-119-78	TRANSISTOR 2SC3311A-RTA		R524	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
Q701	8-729-800-32	TRANSISTOR 2SC2362KG-AA		R525	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
Q702	8-729-178-43	TRANSISTOR 2SC2459-GR-TPE4		R526	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
Q703	8-729-204-91	TRANSISTOR 2SA1049TP-GR		R527	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
Q704	8-729-207-82	TRANSISTOR 2SC3421-Y		R528	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
Q705	8-729-207-89	TRANSISTOR 2SA1358-Y		R529	1-216-099-00	RES-CHIP 120K	5% 1/10W
Q706	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)		R530	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
Q901	8-729-043-63	TRANSISTOR IRFI9634G-LF35		R531	1-216-661-11	METAL CHIP 2.7K	0.50% 1/10W
Q902	8-729-041-45	TRANSISTOR FS5KM-18A-AY		R532	1-216-073-00	RES-CHIP 10K	5% 1/10W
Q903	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R533	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q904	8-729-901-97	TRANSISTOR 2SA1036K-T-146-Q		R535	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
RESISTOR				R536	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R401	1-249-383-11	CARBON	1.5 5% 1/4W	R537	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R402	1-215-866-11	METAL OXIDE	330 5% 1W	R538	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R403	1-214-796-00	METAL CHIP	1.5 1% 1/2W	R539	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R404	1-215-449-00	METAL CHIP	15K 1% 1/4W	R540	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R405	1-214-796-00	METAL CHIP	1.5 1% 1/2W	R541	1-216-687-11	METAL CHIP 33K	0.50% 1/10W
R406	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R542	1-215-399-00	METAL CHIP 120	1% 1/4W
R407	1-249-397-11	CARBON	22 5% 1/4W	R543	1-215-399-00	METAL CHIP 120	1% 1/4W
R408	1-216-081-00	RES-CHIP	22K 5% 1/10W	R544	1-249-393-11	CARBON 10	5% 1/4W
R409	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R545	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R410	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R546	1-215-909-11	METAL OXIDE 47	5% 3W
R416	1-216-073-00	RES-CHIP	10K 5% 1/10W	R547	1-215-387-00	METAL CHIP 39	1% 1/4W
R417	1-216-113-00	RES-CHIP	470K 5% 1/10W	R548	1-260-318-71	CARBON 150	5% 1/2W
R418	1-216-105-91	RES-CHIP	220K 5% 1/10W	R549	1-260-314-11	CARBON 68	5% 1/2W
R501	1-216-049-11	RES-CHIP	1K 5% 1/10W	R550	1-247-903-00	CARBON 1M	5% 1/4W
R502	1-216-025-11	RES-CHIP	100 5% 1/10W	R552	1-249-437-11	CARBON 47K	5% 1/4W
R503	1-216-033-00	RES-CHIP	220 5% 1/10W	R553	1-249-437-11	CARBON 47K	5% 1/4W
R504	1-216-073-00	RES-CHIP	10K 5% 1/10W	R555	1-249-437-11	CARBON 47K	5% 1/4W
R505	1-216-081-00	RES-CHIP	22K 5% 1/10W	R557	1-249-437-11	CARBON 47K	5% 1/4W
R506	1-247-807-31	CARBON	100 5% 1/4W	R559	1-249-437-11	CARBON 47K	5% 1/4W
R507	1-249-433-11	CARBON	22K 5% 1/4W	R561	1-249-437-11	CARBON 47K	5% 1/4W
R508	1-215-861-00	METAL OXIDE	47 5% 1W	R563	1-249-405-11	CARBON 100	5% 1/4W
R509	1-249-381-11	CARBON	1 5% 1/4W	R564	1-249-405-11	CARBON 100	5% 1/4W
R510	1-219-677-11	METAL CHIP	1.8 5% 10W	R565	1-249-405-11	CARBON 100	5% 1/4W
R511 \triangle	1-249-377-11	CARBON	0.47 5% 1/4W	R566	1-249-405-11	CARBON 100	5% 1/4W
R512	1-215-399-00	METAL CHIP	120 1% 1/4W	R567	1-249-405-11	CARBON 100	5% 1/4W
R513	1-216-423-11	METAL OXIDE	27 5% 1W	R568	1-249-405-11	CARBON 100	5% 1/4W
R514	1-249-397-11	CARBON	22 5% 1/4W	R569	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
				R570	1-216-674-11	METAL CHIP 9.1K	0.50% 1/10W
				R572	1-249-429-11	CARBON 10K	5% 1/4W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R573	1-216-385-11	METAL OXIDE	0.47 5% 3W	R658	1-216-346-00	METAL OXIDE	0.56 5% 1W
R574	1-249-404-00	CARBON	82 5% 1/4W	R659	1-249-425-11	CARBON	4.7K 5% 1/4W
R575	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R664	1-215-902-11	METAL OXIDE	47K 5% 2W
R576	1-216-097-11	RES-CHIP	100K 5% 1/10W	R671	1-216-073-00	RES-CHIP	10K 5% 1/10W
R577	1-216-049-11	RES-CHIP	1K 5% 1/10W	R672	1-249-407-11	CARBON	150 5% 1/4W
R579	1-216-025-11	RES-CHIP	100 5% 1/10W	R673	1-216-073-00	RES-CHIP	10K 5% 1/10W
R580	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R674 Δ	1-220-827-91	RESISTOR	560K 5% 1/2W
R581	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	R676	1-215-467-00	METAL CHIP	82K 1% 1/4W
R582	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W	R677	1-216-025-11	RES-CHIP	100 5% 1/10W
R583	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R678	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R584	1-216-473-11	METAL OXIDE	56 5% 3W	R679	1-215-467-00	METAL CHIP	82K 1% 1/4W
R585	1-216-381-11	METAL OXIDE	0.22 5% 3W	R680	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R586	1-260-125-11	CARBON	150K 5% 1/2W	R681	1-215-466-00	METAL CHIP	75K 1% 1/4W
R587	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R682	1-215-463-00	METAL CHIP	56K 1% 1/4W
R601	1-249-425-11	CARBON	4.7K 5% 1/4W	R684	1-216-009-91	RES-CHIP	22 5% 1/10W
R604	1-205-997-11	CEMENTED (Bridge model only)	2.2 5% 10W	R685	1-216-073-00	RES-CHIP	10K 5% 1/10W
R605	1-240-265-11	CMT-MELF (Bridge model only)	2.7 5% 10W	R686	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R615	1-216-615-91	METAL CHIP	33 0.50% 1/10W	R687	1-216-689-11	RES-CHIP	39K 5% 1/10W
R625	1-202-933-61	FUSIBLE	0.1 10% 1/2W	R689	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
R626	1-215-927-00	METAL OXIDE	47K 5% 3W	R690	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W
R627	1-219-513-11	CARBON	4.7M 5% 1/2W	R691	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R628	1-218-772-11	METAL CHIP (PFC/Bridge PFC models only)	680K 0.50% 1/10W	R692	1-216-081-00	RES-CHIP	22K 5% 1/10W
R628	1-216-115-00	METAL CHIP (Bridge model only)	560K 5% 1/10W	R693	1-219-513-11	CARBON	4.7M 5% 1/2W
R629	1-218-758-11	METAL CHIP (PFC/Bridge PFC models only)	180K 0.50% 1/10W	R697	1-215-927-00	METAL OXIDE	47K 5% 3W
R629	1-216-119-00	METAL CHIP (Bridge model only)	820K 5% 1/10W	R698	1-215-927-00	METAL OXIDE	47K 5% 3W
R630	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R700	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R631	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R701	1-249-385-11	CARBON	2.2 5% 1/4W
R632	1-218-758-11	METAL CHIP	180K 0.50% 1/10W	R703	1-249-385-11	CARBON	2.2 5% 1/4W
R633	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	R705	1-215-863-11	METAL OXIDE	100 5% 1W
R635	1-218-754-11	METAL CHIP	120K 0.50% 1/10W	R706	1-216-423-11	METAL OXIDE	27 5% 1W
R636	1-249-397-11	CARBON	22 5% 1/4W	R707	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R637	1-215-893-11	METAL OXIDE	1.5K 5% 2W	R708	1-216-353-00	METAL OXIDE	2.2 5% 1W
R638	1-215-893-11	METAL OXIDE	1.5K 5% 2W	R709	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R639	1-216-609-11	METAL CHIP	18 0.50% 1/10W	R710	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R640	1-216-344-00	METAL OXIDE	0.39 5% 1W	R711	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R641	1-216-345-11	METAL OXIDE	0.47 5% 1W	R712	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R642	1-249-381-11	CARBON	1 5% 1/4W	R713	1-215-858-00	METAL OXIDE	15 5% 1W
R643	1-247-791-91	CARBON	22 5% 1/4W	R714	1-215-863-11	METAL OXIDE	100 5% 1W
R644	1-247-807-31	CARBON	100 5% 1/4W	R715	1-216-353-00	METAL OXIDE	2.2 5% 1W
R649 Δ	1-211-874-71	FUSIBLE	0.12 10% 1/2W	R716	1-249-385-11	CARBON	2.2 5% 1/4W
R650 Δ	1-211-874-71	FUSIBLE	0.12 10% 1/2W	R717	1-249-377-11	CARBON	0.47 5% 1/4W
R651	1-249-441-11	CARBON	100K 5% 1/4W	R718	1-216-426-11	METAL OXIDE	82 5% 1W
R652	1-215-923-00	METAL OXIDE	10K 5% 3W	R719	1-216-369-00	METAL OXIDE	1 5% 2W
R653	1-215-902-11	METAL OXIDE	47K 5% 2W	R720	1-216-295-11	SHORT	0
R657	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R721	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
				R722	1-216-426-11	METAL OXIDE	82 5% 1W
				R723	1-216-295-11	SHORT	0
				R724	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
				R725	1-216-369-00	METAL OXIDE	1 5% 2W
				R726	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK		REF.NO.	PART NO.	DESCRIPTION	REMARK	
R727	1-216-666-11	METAL CHIP	4.3K	0.50% 1/10W	R926	1-216-073-00	RES-CHIP	10K	5% 1/10W
R728	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	R927	1-220-823-91	CARBON	6.8K	5% 1/2W
R729	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R928	1-220-825-11	CARBON	330K	5% 1/2W
R730	1-216-073-00	RES-CHIP	10K	5% 1/10W	R929	1-216-089-11	RES-CHIP	47K	5% 1/10W
R731	1-216-081-00	RES-CHIP	22K	5% 1/10W	R930	1-219-748-11	CARBON	4.7K	5% 1/2W
R732	1-249-383-11	CARBON	1.5	5% 1/4W	R931	1-219-748-11	CARBON	4.7K	5% 1/2W
R733	1-215-859-00	METAL OXIDE	22	5% 1W	R932	1-216-673-11	METAL CHIP	8.2K	0.50% 1/10W
R734	1-215-864-00	METAL OXIDE	150	5% 1W	R933	1-216-666-11	METAL CHIP	4.3K	0.50% 1/10W
R735	1-216-057-00	RES-CHIP	2.2K	5% 1/10W	R934 \triangle	1-249-377-11	CARBON	0.47	5% 1/4W
R736	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1001	1-216-675-91	METAL CHIP	10K	0.50% 1/10W
R737	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1003	1-216-025-11	RES-CHIP	100	5% 1/10W
R738	1-216-071-00	RES-CHIP	8.2K	5% 1/10W	R1004	1-216-033-00	RES-CHIP	220	5% 1/10W
R739	1-249-434-11	CARBON	27K	5% 1/4W	R1005	1-249-409-11	CARBON	220	5% 1/4W
R740	1-216-089-11	RES-CHIP	47K	5% 1/10W	R1006	1-216-033-00	RES-CHIP	220	5% 1/10W
R741	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1007	1-216-049-11	RES-CHIP	1K	5% 1/10W
R742	1-216-067-00	RES-CHIP	5.6K	5% 1/10W	R1008	1-216-049-11	RES-CHIP	1K	5% 1/10W
R743	1-216-037-00	RES-CHIP	330	5% 1/10W	R1010	1-216-033-00	RES-CHIP	220	5% 1/10W
R744	1-249-413-11	CARBON	470	5% 1/4W	R1011	1-216-049-11	RES-CHIP	1K	5% 1/10W
R745	1-249-389-11	CARBON	4.7	5% 1/4W	R1012	1-216-017-91	RES-CHIP	47	5% 1/10W
R746	1-249-389-11	CARBON	4.7	5% 1/4W	R1013	1-216-017-91	RES-CHIP	47	5% 1/10W
R747	1-216-357-00	METAL OXIDE	4.7	5% 1W	R1014	1-216-025-11	RES-CHIP	100	5% 1/10W
R748	1-219-752-11	CARBON	100K	5% 1/2W	R1015	1-216-033-00	RES-CHIP	220	5% 1/10W
R749	1-215-437-00	METAL CHIP	4.7K	1% 1/4W	R1016	1-216-033-00	RES-CHIP	220	5% 1/10W
R751	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1017	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R752	1-216-085-00	RES-CHIP	33K	5% 1/10W	R1018	1-216-057-00	RES-CHIP	2.2K	5% 1/10W
R753	1-249-393-11	CARBON	10	5% 1/4W	R1019	1-216-017-91	RES-CHIP	47	5% 1/10W
R754	1-216-677-11	METAL CHIP	12K	0.50% 1/10W	R1020	1-216-017-91	RES-CHIP	47	5% 1/10W
R755	1-216-675-91	METAL CHIP	10K	0.50% 1/10W	R1021	1-216-025-11	RES-CHIP	100	5% 1/10W
R901	1-216-097-11	RES-CHIP	100K	5% 1/10W	R1022	1-216-025-11	RES-CHIP	100	5% 1/10W
R902	1-216-089-11	RES-CHIP	47K	5% 1/10W	R1039	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R904	1-216-057-00	RES-CHIP	2.2K	5% 1/10W	R1046	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R905	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1047	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R906	1-216-699-91	METAL CHIP	100K	0.50% 1/10W	R1048	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R907	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1049	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R908	1-249-425-11	CARBON	4.7K	5% 1/4W	R1050	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R909	1-215-913-11	METAL OXIDE	220	5% 3W	R1051	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R910	1-215-913-11	METAL OXIDE	220	5% 3W	R1065	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R911	1-249-397-11	CARBON	22	5% 1/4W	R1070	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R912	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1072	1-216-065-91	RES-CHIP	4.7K	5% 1/10W
R914	1-216-041-00	RES-CHIP	470	5% 1/10W	R1073 \triangle	1-216-049-11	RES-CHIP	1K	5% 1/10W
R915	1-249-397-11	CARBON	22	5% 1/4W	R1074	1-216-049-11	RES-CHIP	1K	5% 1/10W
R916	1-249-385-11	CARBON	2.2	5% 1/4W	R1083	1-216-025-11	RES-CHIP	100	5% 1/10W
R917	1-249-385-11	CARBON	2.2	5% 1/4W	R1084	1-216-041-00	RES-CHIP	470	5% 1/10W
R918	1-214-964-00	METAL CHIP	1M	1% 1/4W	R1085	1-216-025-11	RES-CHIP	100	5% 1/10W
R919	1-216-073-00	RES-CHIP	10K	5% 1/10W	R1086	1-216-073-00	RES-CHIP	10K	5% 1/10W
R920	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	R1092	1-216-033-00	RES-CHIP	220	5% 1/10W
R921	1-216-049-11	RES-CHIP	1K	5% 1/10W	R1094	1-216-113-00	RES-CHIP	470K	5% 1/10W
R923	1-215-469-00	METAL CHIP	100K	1% 1/4W	R1095	1-216-073-00	RES-CHIP	10K	5% 1/10W
R924	1-216-675-91	METAL CHIP	10K	0.50% 1/10W	R1096	1-216-073-00	RES-CHIP	10K	5% 1/10W
R925	1-218-762-11	METAL CHIP	270K	0.50% 1/10W	R1097	1-216-077-91	RES-CHIP	15K	5% 1/10W



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1098	1-216-077-91	RES-CHIP	15K 5% 1/10W				
R1104	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
<u>VARIABLE RESISTOR</u>							
\boxtimes RV901 \triangle	1-241-767-21	RES, ADJ, CERMET	100K				
	3-710-578-01	COVER, VOLUME, 6 MOLD	(for RV901)				
<u>RELAY</u>							
RY601 \triangle	1-755-067-21	RELAY					
RY602 \triangle	1-755-318-11	RELAY, POWER					
<u>SWITCH</u>							
S602	1-771-757-11	SWITCH PUSH	(1 KEY)				
<u>SPARK GAP</u>							
SG601 \triangle	1-519-422-11	GAP, SPARK					
SG901	1-517-499-21	GAP, SPARK					
SG902	1-519-422-11	GAP, SPARK					
SG903	1-519-422-11	GAP, SPARK					
<u>TRANSFORMER</u>							
T501	1-433-628-11	TRANSFORMER, FERRITE (HDT)					
T502	1-411-594-41	INDUCTOR	5MH				
T503	1-435-140-11	TRANSFORMER, FERRITE (LCT)					
T504	1-431-413-21	TRANSFORMER, FERRITE (HST)					
T602 \triangle	1-435-141-12	TRANSFORMER, CONVERTER	(SRT)				
T701	1-435-129-11	TRANSFORMER, FERRITE (DFT)					
T901 \triangle	1-453-317-11	FBT ASSY NX-4700/X4E4					
T902	1-411-567-31	INDUCTOR	500 μ H				
<u>THERMISTOR</u>							
TH600 \triangle	1-809-260-11	THERMISTOR, NEC (NTH22D6R0QA)					
TH601 \triangle	1-803-540-11	THERMISTOR					
<u>VARISTOR</u>							
VA601 \triangle	1-801-268-51	VARISTOR ERZV14D471					
VA603	1-801-268-51	VARISTOR ERZV14D471					
<u>CRYSTAL</u>							
X1001	1-567-890-11	VIBRATOR, CRYSTAL					
				<u>N</u>			
				* A-1391-045-A N BOARD, MOUNTED			
				<u>CAPACITOR</u>			
	C801	1-113-340-11	ELECT	47 μ F	20%	25V	
	C803	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V	
	C809	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V	
	C810	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C811	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V	
	C812	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	
	C813	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C814	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	
	C817	1-119-941-91	ELECT	470 μ F	20%	6.3V	
	C818	1-113-340-11	ELECT	47 μ F	20%	25V	
	C819	1-163-037-11	CERAMIC CHIP	0.022 μ F	10%	50V	
	C820	1-119-941-91	ELECT	470 μ F	20%	6.3V	
	C821	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C822	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	
	C823	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C824	1-163-133-00	CERAMIC CHIP	470pF	5%	50V	
	C825	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	
	C826	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	
	C827	1-119-941-91	ELECT	470 μ F	20%	6.3V	
	C828	1-164-161-11	CERAMIC CHIP	0.0022 μ F	10%	50V	
	C829	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V	
	C830	1-113-340-11	ELECT	47 μ F	20%	25V	
	C832	1-131-722-91	ELECT	100 μ F	20%	6.3V	
	C833	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C835	1-163-038-11	CERAMIC CHIP	0.1 μ F		25V	
	C837	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V	
	C838	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V	
	C839	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V	
	C840	1-163-017-00	CERAMIC CHIP	.0047 μ F	10%	50V	
	C841	1-163-023-00	CERAMIC CHIP	0.015 μ F	10%	50V	
				<u>CONNECTOR</u>			
	CN801	1-793-585-11	PIN, CONNECTOR (PC BOARD)			14P	
	CN802	1-793-586-11	PIN, CONNECTOR (PC BOARD)			14P	
				<u>DIODE</u>			
	D802	8-719-049-09	DIODE 1SS367-T3SONY				
				<u>FERRITE BEAD</u>			
	FB801	1-543-960-22	FERRITE			0 μ H	
	FB802	1-216-295-11	SHORT			0	
	FB809	1-543-963-22	FERRITE			0 μ H	
	FB810	1-543-963-22	FERRITE			0 μ H	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>IC</u>				R833	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
IC801	8-759-589-56	IC CXD9517Q		R834	1-216-647-11	METAL CHIP	680 0.50% 1/10W
IC802	8-759-569-45	IC LD1117S33TR		R835	1-216-089-11	RES-CHIP	47K 5% 1/10W
IC803	8-759-502-82	IC LM324M-FL63		R836	1-216-049-11	RES-CHIP	1K 5% 1/10W
<u>CONDUCTOR</u>				R837	1-216-648-11	METAL CHIP	750 0.50% 1/10W
JR801	1-216-295-11	SHORT	0	R838	1-216-041-00	RES-CHIP	470 5% 1/10W
JR802	1-216-295-11	SHORT	0	R839	1-216-117-00	RES-CHIP	680K 5% 1/10W
<u>TRANSISTOR</u>				R840	1-216-650-11	METAL CHIP	910 0.50% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR		R841	1-216-089-11	RES-CHIP	47K 5% 1/10W
Q804	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		R842	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
Q805	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR		R843	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
<u>RESISTOR</u>				R844	1-216-019-00	RES-CHIP	56 5% 1/10W
R801	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R846	1-216-025-11	RES-CHIP	100 5% 1/10W
R802	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R847	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R803	1-216-033-00	RES-CHIP	220 5% 1/10W	R851	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R804	1-216-033-00	RES-CHIP	220 5% 1/10W	R852	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R805	1-216-033-00	RES-CHIP	220 5% 1/10W	R853	1-216-049-11	RES-CHIP	1K 5% 1/10W
R806	1-216-033-00	RES-CHIP	220 5% 1/10W	R855	1-216-105-91	RES-CHIP	220K 5% 1/10W
R807	1-216-033-00	RES-CHIP	220 5% 1/10W	R856	1-216-073-00	RES-CHIP	10K 5% 1/10W
R808	1-216-033-00	RES-CHIP	220 5% 1/10W	R857	1-216-049-11	RES-CHIP	1K 5% 1/10W
R809	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R858	1-216-073-00	RES-CHIP	10K 5% 1/10W
R810	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R859	1-216-025-11	RES-CHIP	100 5% 1/10W
R811	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R860	1-216-025-11	RES-CHIP	100 5% 1/10W
R812	1-216-049-11	RES-CHIP	1K 5% 1/10W	R863	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R813	1-216-049-11	RES-CHIP	1K 5% 1/10W	R866	1-216-049-11	RES-CHIP	1K 5% 1/10W
R814	1-216-031-00	RES-CHIP	180 5% 1/10W				
R815	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R816	1-218-768-11	METAL CHIP	470K 0.50% 1/10W				
R817	1-216-089-11	RES-CHIP	47K 5% 1/10W				
R818	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R819	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R820	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R821	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R822	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R823	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R824	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R825	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R826	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R827	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R828	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R829	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R830	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R831	1-216-033-00	RES-CHIP	220 5% 1/10W				
R832	1-216-025-11	RES-CHIP	100 5% 1/10W				

SERVICE MANUAL



US Model
Canadian Model
AEP Model
N.Hemisphere Model
S.Hemisphere Model
Equator Model
Japan Model
Chassis No. SCC-L30B-A

F99 CHASSIS

SUPPLEMENT-6

File this supplement with the service manual.

**SUBJECT: ADDITION OF GRAY COLOR MODEL FOR
NH, SH, EQ, J IN JAPAN-MADE SET**

PAGE	REF.NO.	PART NO		DESCRIPTION	REMARK
		White color model	Gray color model		
36	1	X-4037-524-1	* X-4038-054-1	BEZEL ASSY	2-5
	3	4-072-464-31	4-072-464-21	BUTTON, POWER	
	5	4-072-463-01	4-072-463-21	BUTTON, MULTI	
	22	* 4-072-443-31	* 4-072-443-61	CABINET	
	23	* 4-073-970-01	* 4-079-855-01	LABEL, INFORMATION	
	24	* 4-072-441-01	* 4-072-441-31	COVER, CABLE	
	26	4-062-195-51	4-062-195-61	COVER, CONNECTOR	
	27	* 1-790-283-21	1-791-754-11	CABLE ASSY (15P DSUB CONNECTOR)	
	28	X-4037-614-1	X-4038-503-1	STAND ASSY	29-32
	31	4-071-257-01	4-071-257-31	SLIDER	
38	51	! 1-769-752-31	! 1-769-752-61	CORD SET, POWER	
		1-772-492-21	1-772-492-31	DELL SET, UP CD	

Note: When ordering parts of gray color model, please order them with parts number show above.