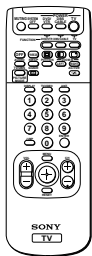


SERVICE MANUAL

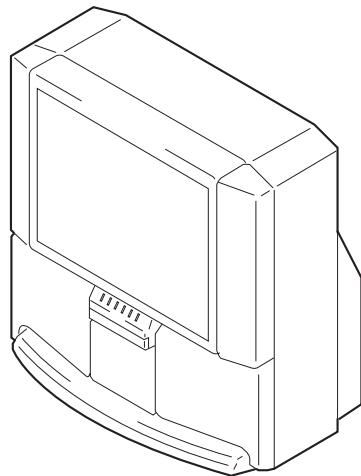
RA-4 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KP-53XBR200</i>	<i>RM-Y902</i>	<i>US</i>	<i>SCC-N90A-A</i>
<i>KP-53XBR200</i>	<i>RM-Y902</i>	<i>Canadian</i>	<i>SCC-N90A-A</i>
<i>KP-61XBR200</i>	<i>RM-Y902</i>	<i>US</i>	<i>SCC-N90B-A</i>
<i>KP-61XBR200</i>	<i>RM-Y902</i>	<i>Canadian</i>	<i>SCC-N90B-A</i>

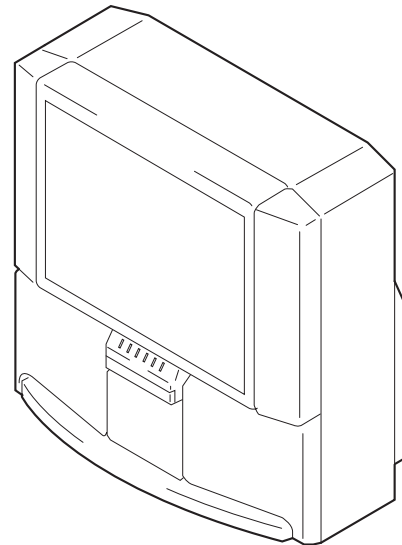
MODEL COMMANDER DEST. CHASSIS NO.



RM-Y902



KP-53XBR200



KP-61XBR200



* Please file according to model size.

53 61

Color Rear Video Projector
SONY®

SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system	Speaker	Front (Tweeter): 50 mm (2") x 2 Front (Woofer): 130 mm (5") x 2 (KP-53XBR200) 160 mm (6 3/8") x 2 (KP-61XBR200) Center: 100 mm (4") x 2 Rear: 70 mm (2 3/4") x 4
Picture tube	7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system	Speaker output	Front: 20 W x 2 Center: 20 W x 1 Rear: 10 W x 2
Projection lenses	High performance, large diameter hybrid lens F1.1	Power requirement	120 V AC, 60 Hz
Television system	American TV standard	Power consumption	In use (Max.): 300 W In standby: 1 W
Channel coverage	VHF: 2–13/UHF: 14–69/ CATV: 1–125	Dimensions (W/H/D)	1,322 x 1,439 x 621 mm (52 1/8 x 56 3/4 x 24 1/2 inches) (KP-53XBR200) 1,573 x 1,533 x 702 mm (62 x 60 3/8 x 27 3/4 inches) (KP-61XBR200)
Antenna	75 ohm external terminal for VHF/UHF	Mass	127 kg (281 lbs) (KP-53XBR200) 168 kg (371 lbs) (KP-61XBR200)
Screen size (measured diagonally)	53 inches (KP-53XBR200) 61 inches (KP-61XBR200)	Supplied accessories	Remote control RM-Y902 (1) Batteries (2) size AA (R6) Rear speakers (2) Speaker cords (2)
Inputs/outputs	VIDEO 1/3/4 IN VIDEO 2 INPUT S VIDEO IN (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms VIDEO 5 IN S VIDEO IN (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 47 kilohms Y: 1 Vp-p, 75 ohms, sync negative CB: 0.7 Vp-p, 75 ohms CR: 0.7 Vp-p, 75 ohms SELECT OUT VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 470 mVrms (100% modulation), Impedance: 47 kilohms AUDIO (VAR) OUT (phono jacks): 950 mVrms (100% modulation) AUDIO (FIX) OUT (phono jacks): 500 mVrms (100% modulation) S-LINK minijacks CONTROL S IN/OUT minijacks	Optional accessories	Connecting cables RK-74A, RKG-69HG, VMC-10HG, VMC-720M, VMC-810S/820S, YC-15V/30V U/V mixer EAC-66
		Side rack	SU-53XBR200 (for KP-53XBR200) SU-61XBR200 (for KP-61XBR200)
			Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

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, through 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 condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna’s replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

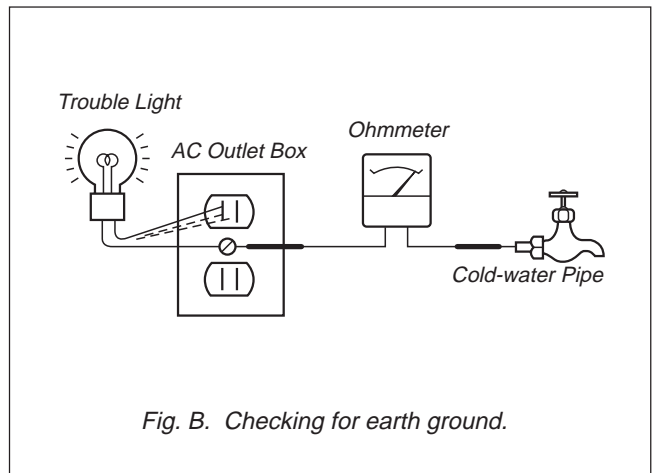
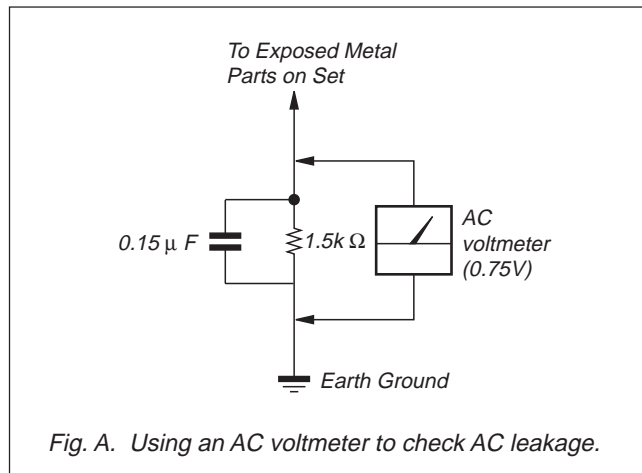
LEAKAGE TEST

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 0.5mA (500 microampers) . 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 instruments.
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 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the Standby/Sleep lamp automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the Standby/Sleep lamp.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

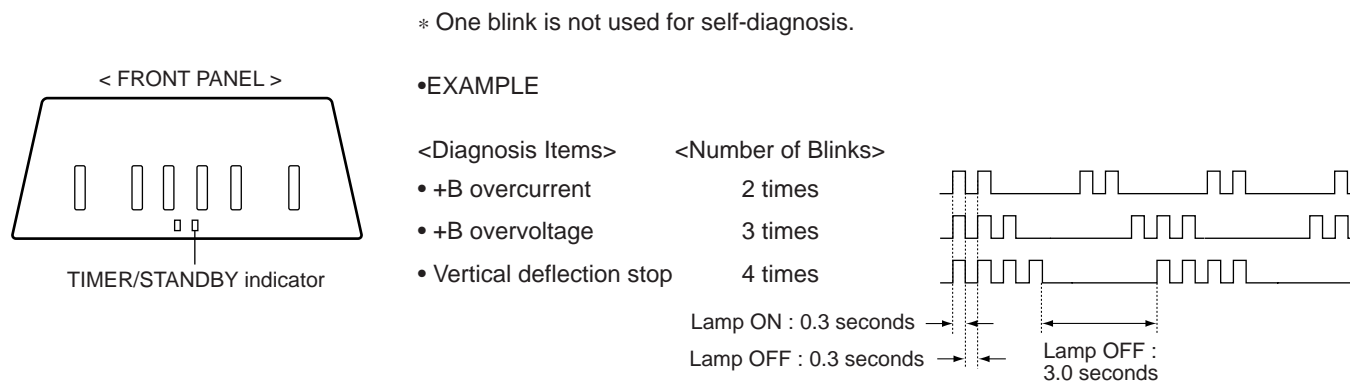
2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the Standby/Sleep lamp only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “0” means that no malfunctions occurred.

Diagnosis item	Standby/ sleep lamp, Number of blinks	Self-diagnosis screen display, Diagnosis item Results
• Power not ON	Not lit	
+B OCP detection	LED blinks 2 times	2 : +B OCP XX
+B OVP detection	LED blinks 3 times	3 : +B OVP XX
V horizontal detection	LED blinks 4 times	4 : V STOP XX
AKB detection	LED blinks 5 times	5 : AKB XX
H vertical detection	LED blinks 6 times	6 : H STOP XX
HV abnormality detection	LED blinks 7 times	7 : HV XX
Audio abnormality detection	LED blinks 8 times	8 : AUDIO XX

* : XX the range of values for number of operations is 00-99. For 99 or higher there is no count up and the number remains at 99.

3. Blinking count display of Standby/Sleep lamp



Release of Standby/Sleep lamp blinking.

- The Standby/Sleep lamp blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

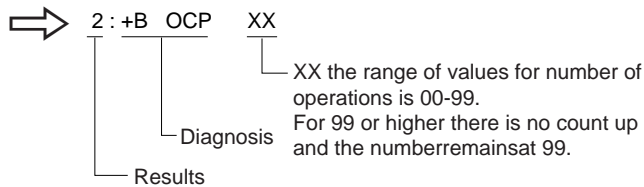
- Quickly press the remote command button in the following order from the standby state.

Display → Channel **5** → Volume **-** → Power ON

↑
Be aware that this differs from the method of entering the service mode (volume **+**).

Self-diagnosis screen display

SELF CHECK		
2 : +B	OCP	XX
3 : +B	OVP	XX
4 : V	STOP	XX
5 : AKB		XX
6 : H	STOP	XX
7 : HV		XX
8 : AUDIO		XX
9 : WDT		XX



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “0”.
- If the results display is not returned to “0” it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- When returning the results display to “0” (clear), press the remote command buttons in the following order when the diagnosis screen is displayed.
- Be aware that, when carrying this out in the speed mode, all the other electrical adjustment data will be rewritten.

Channel **8** → ENTER

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

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(CAUTION)

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.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO 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 TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DE ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÂSSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

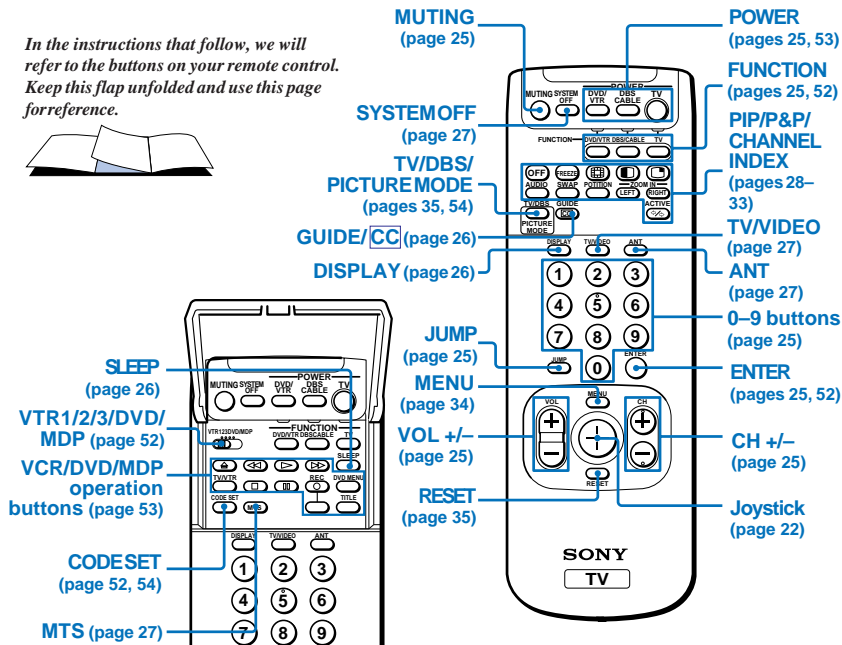
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 3-864-093-11)

Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.



Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

Transparent Press to select the component you want to control; e.g. VTR (VCR)/MDP/DVD Player, DBS (Direct Broadcast Satellite)/CABLE, or projection TV.
Green Buttons relevant to power operations, like turning the projection TV, DBS/CABLE, or VTR (VCR)/MDP/DVD Player on or off.

Label color

Green SYSTEM OFF button
White TV/VTR (VCR)/MDP/DVD Player/DBS (Direct Broadcast Satellite)/CABLE/S-Link operation buttons.
Yellow PIP, P&P, and CHANNEL INDEX operation buttons.
Blue DBS operation buttons.
Pink DVD Player operation buttons.

For a detailed explanation of most buttons, see "Watching the TV" on page 25.

Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV.

This section will guide you through your initial set up. It will show you how to connect your new components and how to connect to your antenna or cable.

2 Basic Set Up.

This section will teach you the basic skills needed to operate your new projection TV. It will show you how to operate special functions of the remote control.

3 Using Your New Projection TV.

This section will show you how to begin using your new projection TV. It will show you how to use the AUTO SET UP feature, and how to use your remote control's features.

4 Adjusting Your Set Up (menus).

This section will teach you how to access on-screen menus and adjust your projection TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

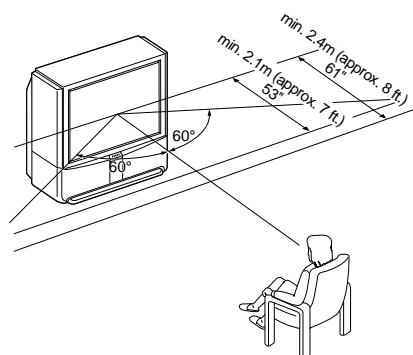
Installing and Connecting the Projection TV

Carrying your projection TV

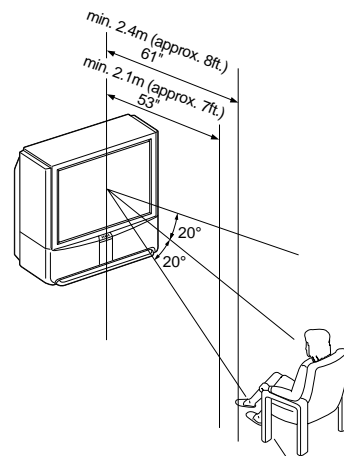
Carrying the projection TV requires three or more people. The projection TV has been equipped with casters for easy movement. Please move your projection TV using the casters.

Installing the Projection TV

Recommended viewing area (Horizontal)



Recommended viewing area (Vertical)

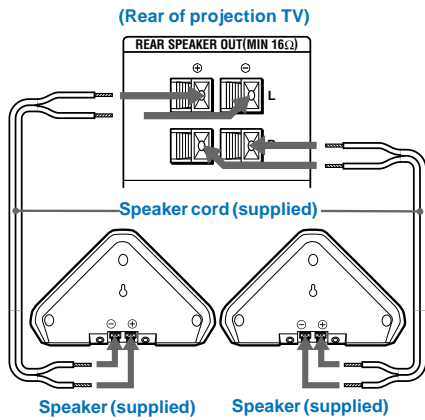


Mounting the Supplied Rear Speakers

For enhanced surround effect, connect the supplied rear speakers to your projection TV.

Connecting the rear speakers

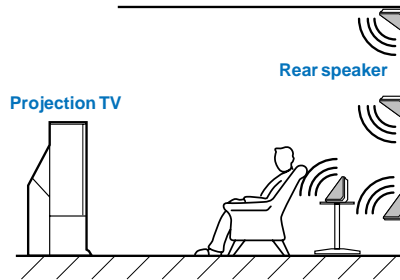
Using the supplied speaker cord, connect REAR SPEAKER OUT L on your projection TV to the speaker terminal on one rear speaker, and connect REAR SPEAKER OUT R to the terminal on the other one.



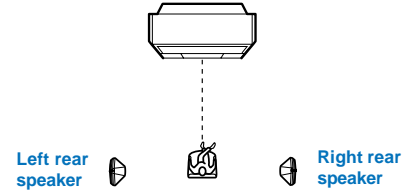
Installation

For optimum surround effect, mount the rear speakers in the following places (as shown in the illustration):

- on a wall, a little higher or lower than the listener's ears.
- on a table, a little lower than the listener's ears.
- on a corner of wall and ceiling.



(Rear of projection TV)



Note:

- Match the colors of the speaker cords and the terminals. If the colors are reversed, sound will be distorted.

3

Installing and Connecting the Projection TV (continued)

Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna connector

Plug Type

→ Press into connection

Screw-on Type

→ Screw into connection

S Video cable

High quality video connector for enhanced picture quality

→ Align guides and press into connection

Audio/Video cable

→ Press into connection

Video - Yellow

Audio (Left) - White

Audio (Right) - Red

(Some DVD Players are equipped with the following three video connectors.)

Y - Green

C_B (C_b, B-Y or P_B) - Blue

C_R (C_r, R-Y or P_R) - Red

S-Link/CONTROL S cable

Sony connector for S-Link and CONTROL S connections. These features are exclusive to Sony products and allow greater control of all Sony equipment.

→ Press into connection

Note:

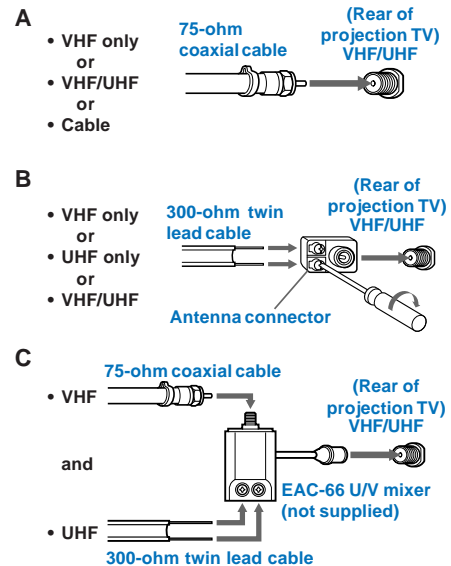
- For S-Link and CONTROL S connections, you can use the combined S-Link/CONTROL S cable provided with some Sony video equipment, or you can purchase a separate S-Link/CONTROL S cable (RK-G69HG).

Making Connections

For the best picture quality, a cable TV system or outdoor antenna is recommended.

Connecting directly to cable or an antenna

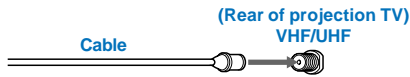
The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).



4

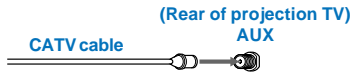
Cable or antenna

Most simple connection. Connection is made directly from the cable or antenna to the projection TV.



Cable and antenna

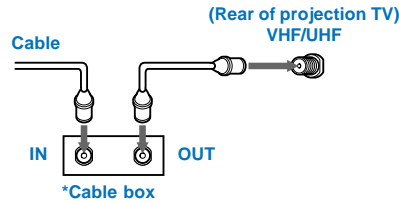
You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.



Select Cable or ANT mode by pressing ANT on the remote control.

Connecting a cable box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.

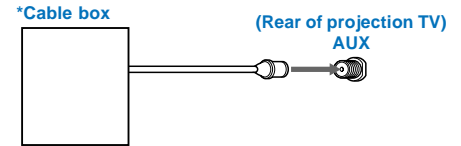


Note:

- If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature. (see "CHANNEL FIX" on page 45)

Cable box and cable

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.).



For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

Notes:

- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or DBS Receiver" on page 54)
- During PIP, P&P, CHANNEL INDEX or FAVORITE CHANNEL viewing, the AUX input can only be viewed in the main picture.
- If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input you should consider using CHANNEL FIX. (see "CHANNEL FIX" on page 45)

Installing and Connecting the Projection TV (continued)

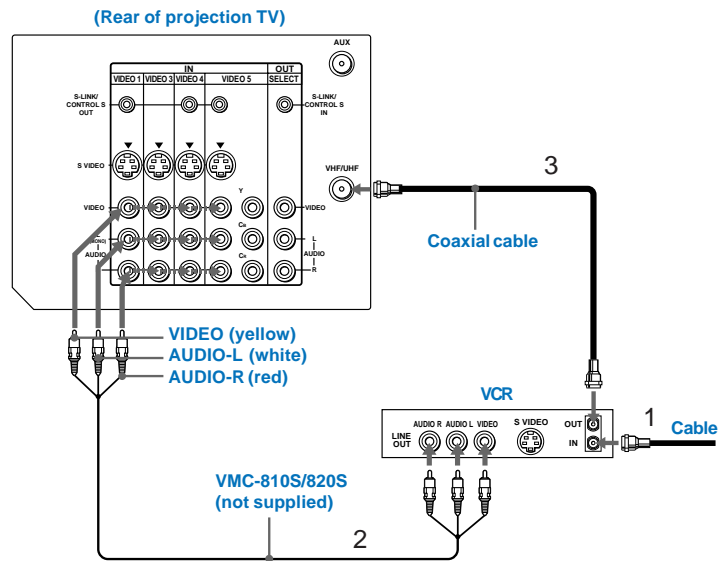
Disconnect all power sources before making any connections.

Connecting an antenna/cable TV system with a VCR

- Attach the coaxial connector from your cable or antenna to IN on your VCR.
- Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).
- Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your projection TV.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on your projection TV.



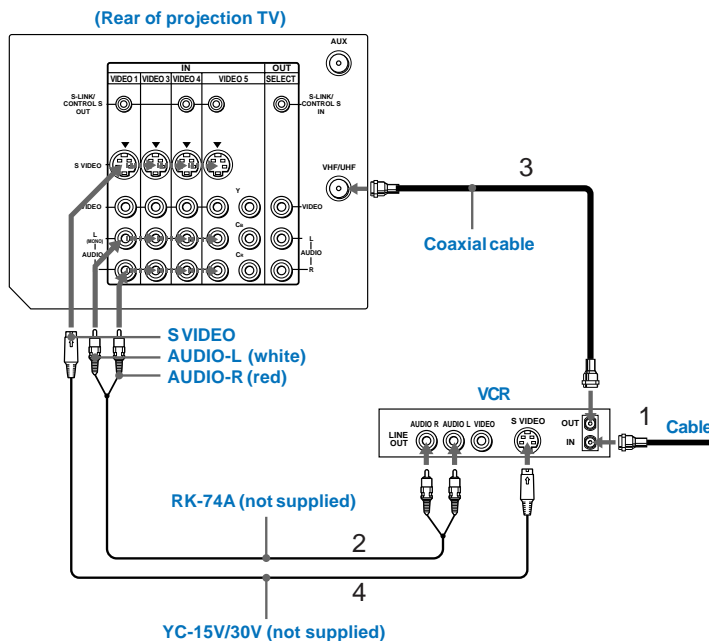
Disconnect all power sources before making any connections.

Connecting to an S Video equipped VCR

- 1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
- 2 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your projection TV.
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your projection TV.

Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on your projection TV.



Installing and Connecting the Projection TV (continued)

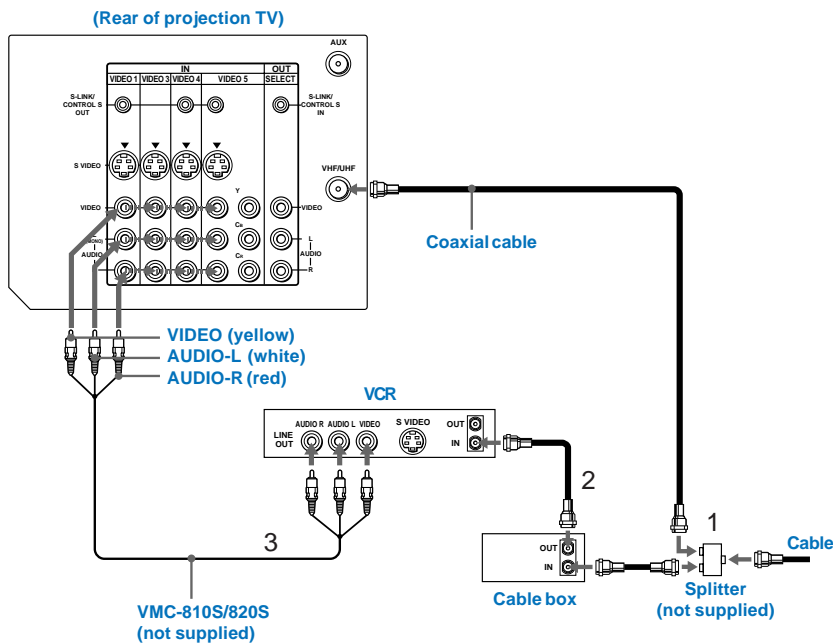
Disconnect all power sources before making any connections.

Connecting a VCR and projection TV with a cable box

- 1 Connect the single (input) jack of the Splitter to your incoming cable connection, and connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF/UHF on your projection TV.
- 2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
- 3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

Note:

- To view scrambled channels through your cable box, select the video input which your cable box is connected to by pressing TV/VIDEO.



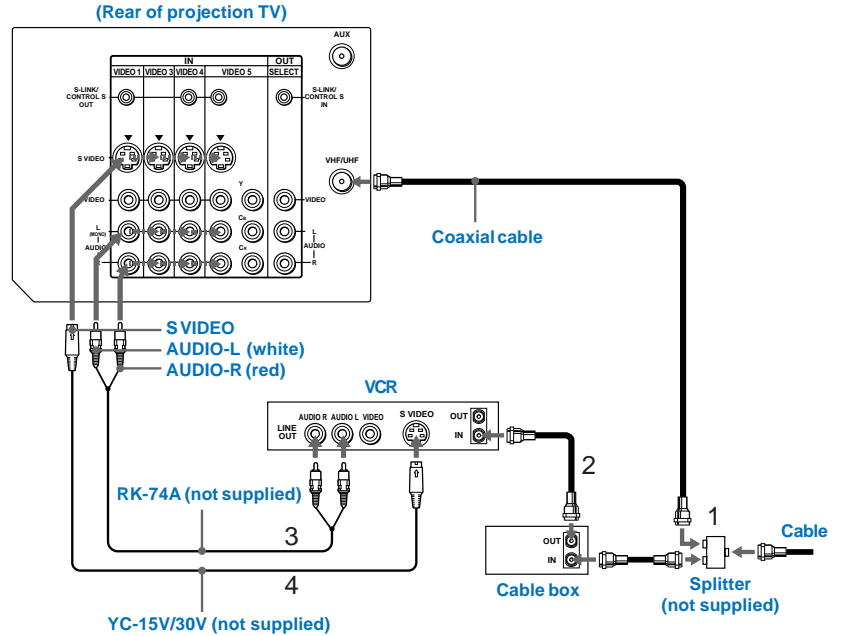
Disconnect all power sources before making any connections.

Connecting to an S Video equipped VCR with a cable box

- 1-2 Perform as described on page 8.
- 3 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your projection TV.

Note:

- To view scrambled channels through your cable box, select the video input which your cable box is connected to by pressing TV/VIDEO.



Installing and Connecting the Projection TV (continued)

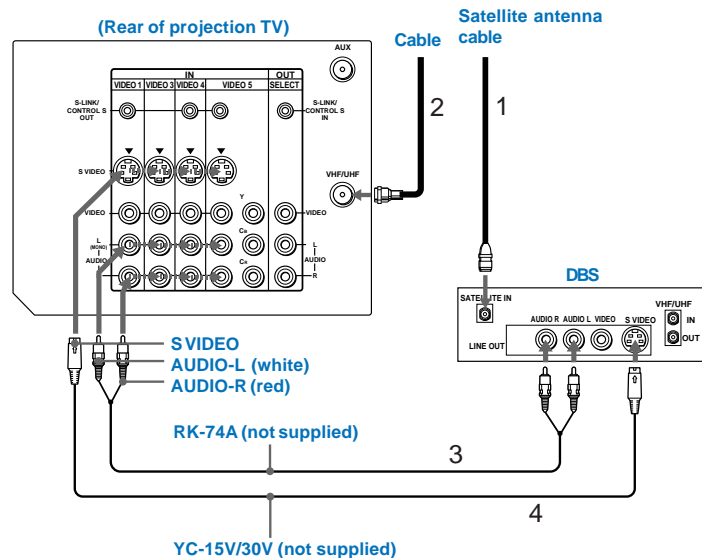
Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF on your projection TV.
- 3 Using AUDIO connectors, connect AUDIO OUT on your DBS receiver to AUDIO IN on your projection TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Using an S VIDEO connector, connect S VIDEO on your DBS receiver to S VIDEO on your projection TV.

Note:

- To view input from the DBS, select the video input which your DBS receiver is connected to by pressing TV/VIDEO on the remote control.



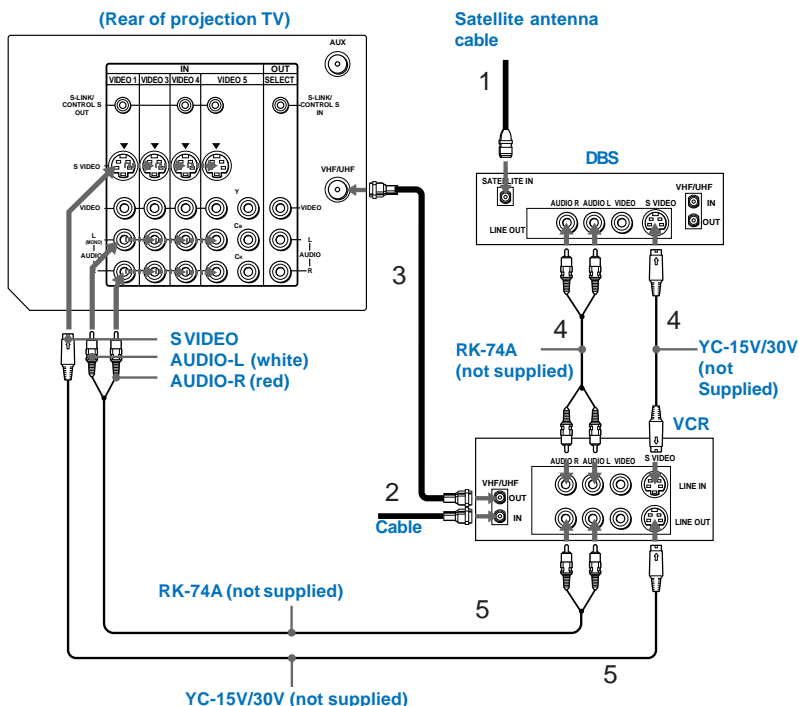
Disconnect all power sources before making any connections.

Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF IN on your VCR.
- 3 Using a coaxial connector, connect VHF/UHF on your VCR to VHF/UHF on your projection TV.
- 4 Using AUDIO and S VIDEO connectors, connect AUDIO OUT and S VIDEO on your DBS receiver to AUDIO IN and S VIDEO on your VCR.
- 5 Using AUDIO and S VIDEO connectors, connect AUDIO OUT and S VIDEO on your VCR to AUDIO IN and S VIDEO on your projection TV.

Notes:

- To view input from the DBS or VCR, select the video input which your DBS receiver or VCR is connected to by pressing TV/VIDEO on the remote control.
- If your VCR is not equipped with S VIDEO, connect VIDEO OUT on your VCR to VIDEO IN on your projection TV using AUDIO/VIDEO connectors.



Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

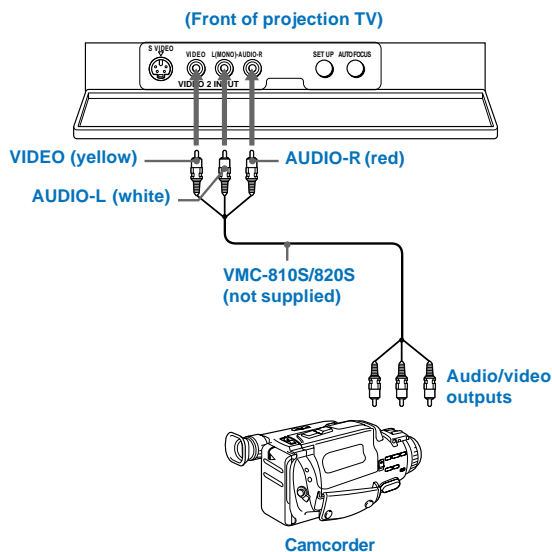
Connecting a camcorder

Use this connection to view a picture directly from your camcorder.

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on the front panel of your projection TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

Notes:

- If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on your projection TV.
- If you have an S Video equipped camcorder, you can use an S Video connection.



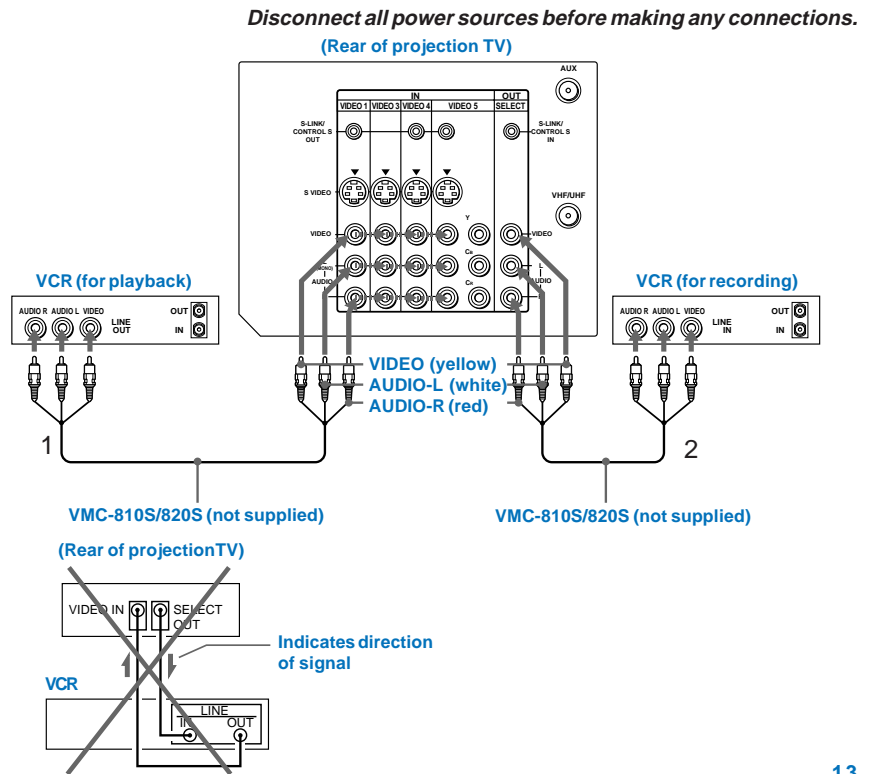
Connecting two VCRs for tape editing

SELECT OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

- 1 Connect the VCR intended for playback using the connection instructions on pages 6 and 7 of this manual.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to SELECT OUT AUDIO and VIDEO on your projection TV.

Notes:

- Do not change the input signal while editing through SELECT OUT.
- When connecting a single VCR to the projection TV: if VCR LINE OUT is connected to projection TV's VIDEO IN, *do not* connect the projection TV's SELECT OUT jacks to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.
- You can select the output signal from SELECT OUT from the SET UP menu. (see "SELECT OUT" on page 48)



Installing and Connecting the Projection TV (continued)

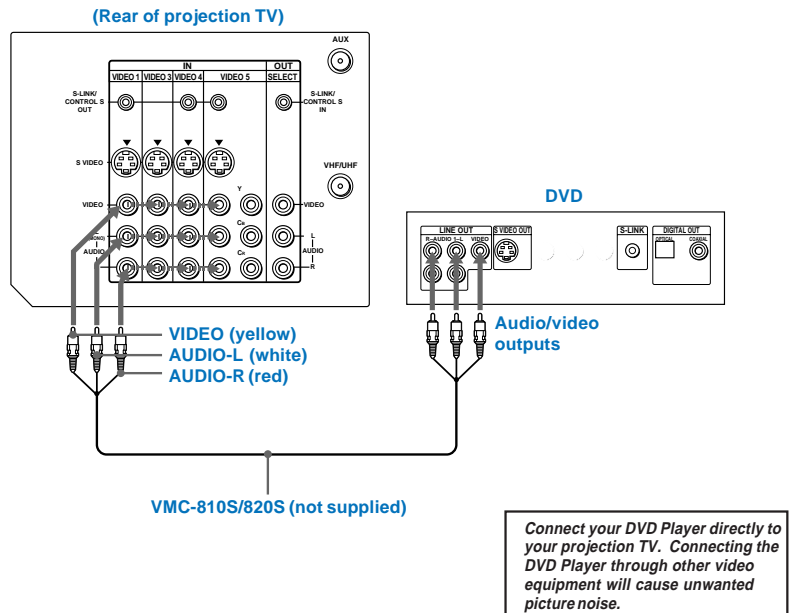
Disconnect all power sources before making any connections.

Connecting a DVD Player without component video output connectors

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your projection TV to LINE OUT on your DVD Player.

Note:

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the ADVANCED VIDEO menu. (see "NR" on page 37)



Disconnect all power sources before making any connections.

Connecting a DVD Player with component video output connectors

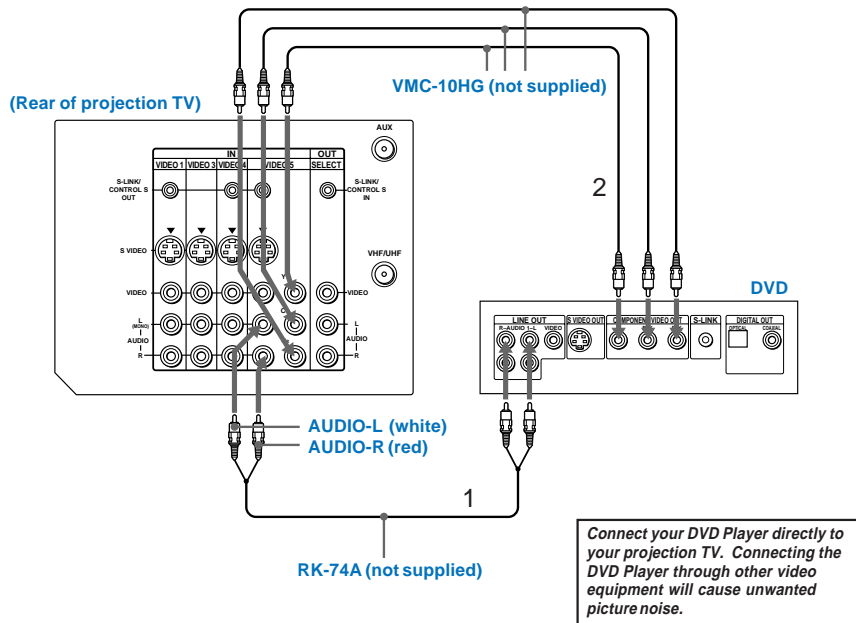
- 1 Using AUDIO connectors, connect AUDIO R and L of the LINE OUT on your DVD Player to AUDIO R and L on the VIDEO 5 IN panel at the rear of your projection TV.
- 2 Using three yellow VIDEO connectors, connect Y, C_B, and C_R on the COMPONENT VIDEO OUT on your DVD Player to Y, C_B, and C_R on the VIDEO 5 IN panel at the rear of your projection TV.

Notes:

- Some DVD Player terminals may be labeled differently. If so, connect as follows:

Connect	To
Y (green)	Y
C _B (blue)	C _B , B-Y or P _B
C _R (red)	C _R , R-Y or P _R

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust NR in the ADVANCED VIDEO menu. (see "NR" on page 37)



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Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

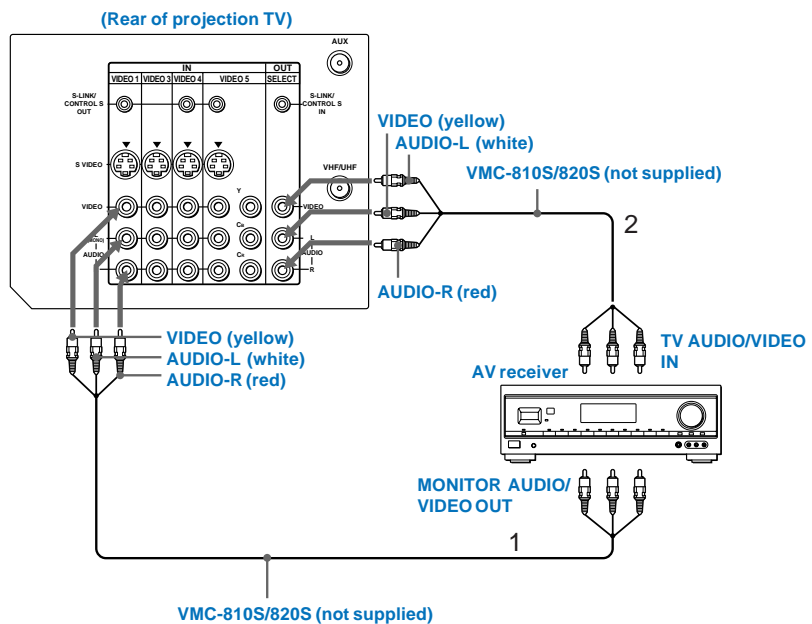
Connecting an AV receiver

For greater control of all audio and video equipment, connect your AV receiver.

- 1 Using AUDIO/VIDEO connectors, connect VIDEO 1 IN on your projection TV to Monitor AUDIO and VIDEO OUT on your AV receiver.
- 2 Using AUDIO/VIDEO connectors, connect SELECT OUT on your projection TV to TV AUDIO and VIDEO IN on your AV receiver.
- 3 Use the SET UP menu to set SELECT OUT to TV OUT. (see "SELECT OUT" on page 48)

Note:

- You may want to use CHANNEL FIX to fix your TV's input to the AV receiver (VIDEO 1). (see "CHANNEL FIX" on page 45)



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Disconnect all power sources before making any connections.

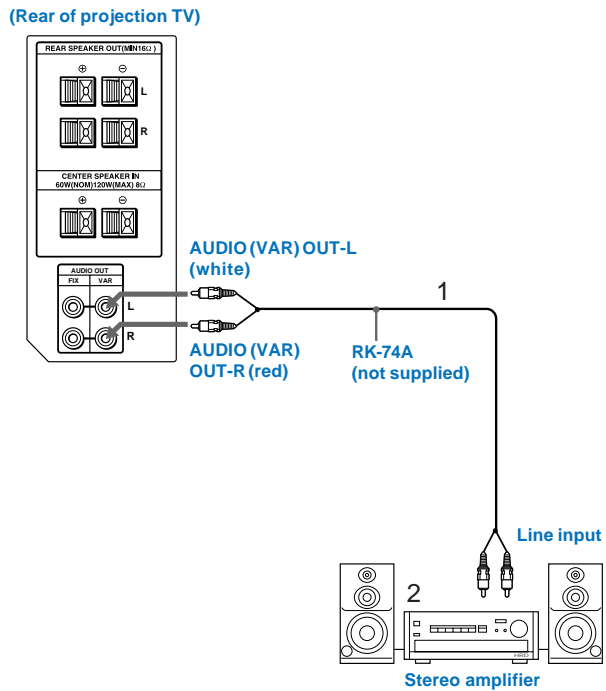
Connecting an audio system

For more dynamic sound, connect your audio system to your projection TV.

- 1 Using AUDIO connectors, connect AUDIO (VAR) OUT on your projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on your stereo (White-AUDIO Left, Red-AUDIO Right).
- 2 Set your stereo to the chosen Line input and use the AUDIO menu to switch projection TV's speakers off. (see "SPEAKER" on page 38)

Note:

- You can adjust VOLUME, BASS, TREBLE and BALANCE through the projection TV on AUDIO (VAR) OUT only.



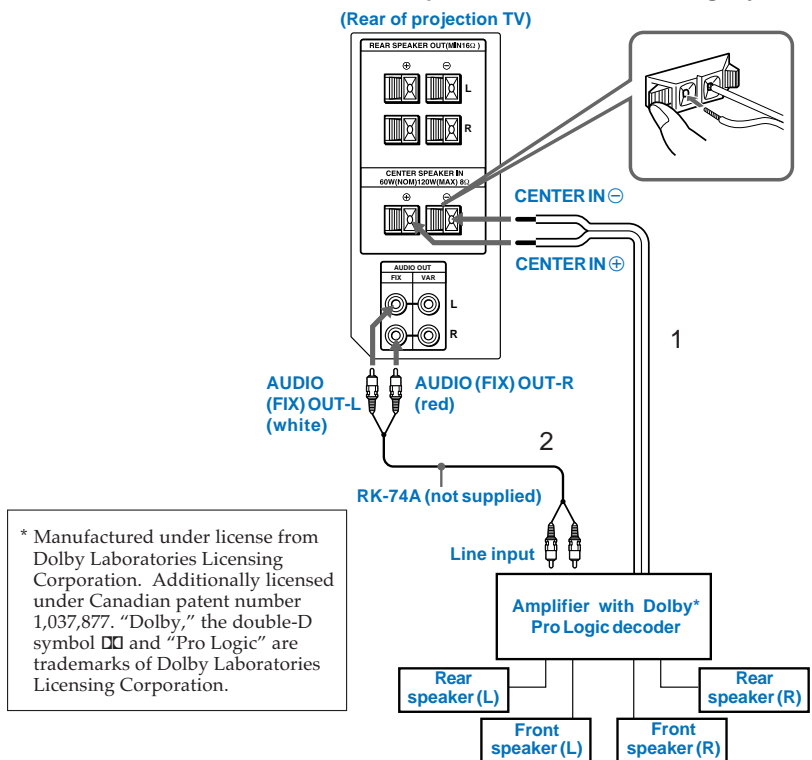
Installing and Connecting the Projection TV (continued)

Connecting an amplifier with Dolby Pro Logic decoder

If you use an amplifier with Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

- 1 Using the speaker cords (supplied with the amplifier), connect the speaker terminals on your amplifier to CENTER SPEAKER IN +/- on your projection TV.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO (FIX) OUT on your projection TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on your amplifier (White-AUDIO Left, red-AUDIO Right).
- 3 Set your amplifier to the chosen Line input and use the AUDIO menu to set "SPEAKER" to "CENTER IN" on your projection TV. (see "SPEAKER" on page 38)

Disconnect all power sources before making any connections.



Disconnect all power sources before making any connections.

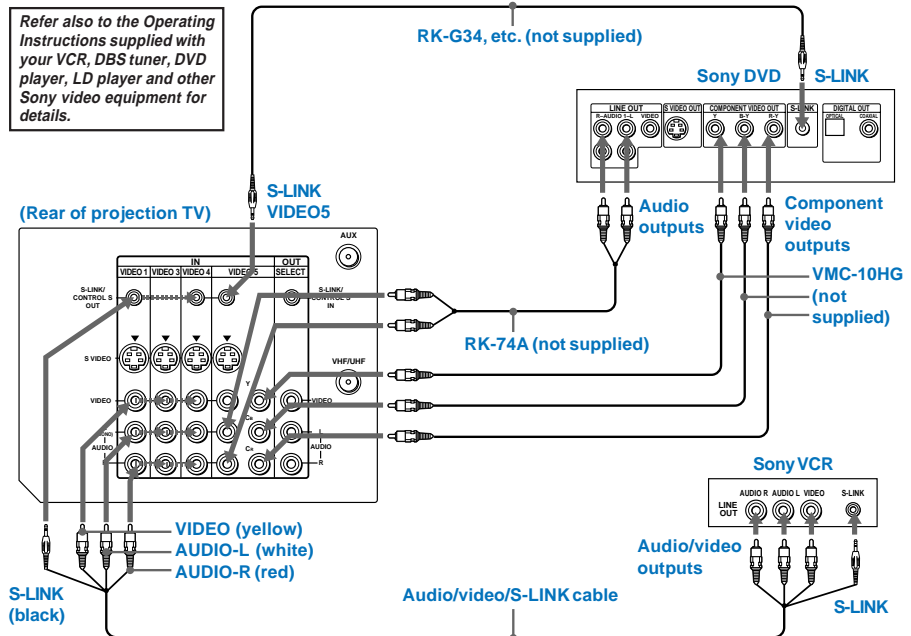
Using the S-Link/CONTROL S function

S-Link is a Sony innovation designed to make your Sony components work together. It allows you to automatically switch the projection TV's input mode to video when you press the play button on your Sony S-Link VCR. It also allows you to turn the VCR and projection TV off at the same time with the SYSTEM OFF button on the remote control.

Using the S-Link function without a Sony AV receiver

- 1 Connect your VCR. (see "Connecting an antenna/cable TV system with a VCR" or "Connecting to an S Video equipped VCR" on pages 6 and 7)
- 2 Using an S-LINK connector, connect the S-LINK jacks on your VCR (DVD) and projection TV. Ensure that both ends are seated firmly and that the projection TV's S-LINK jack is in the same row as the AUDIO/VIDEO connectors.

Refer also to the Operating Instructions supplied with your VCR, DBS tuner, DVD player, LD player and other Sony video equipment for details.



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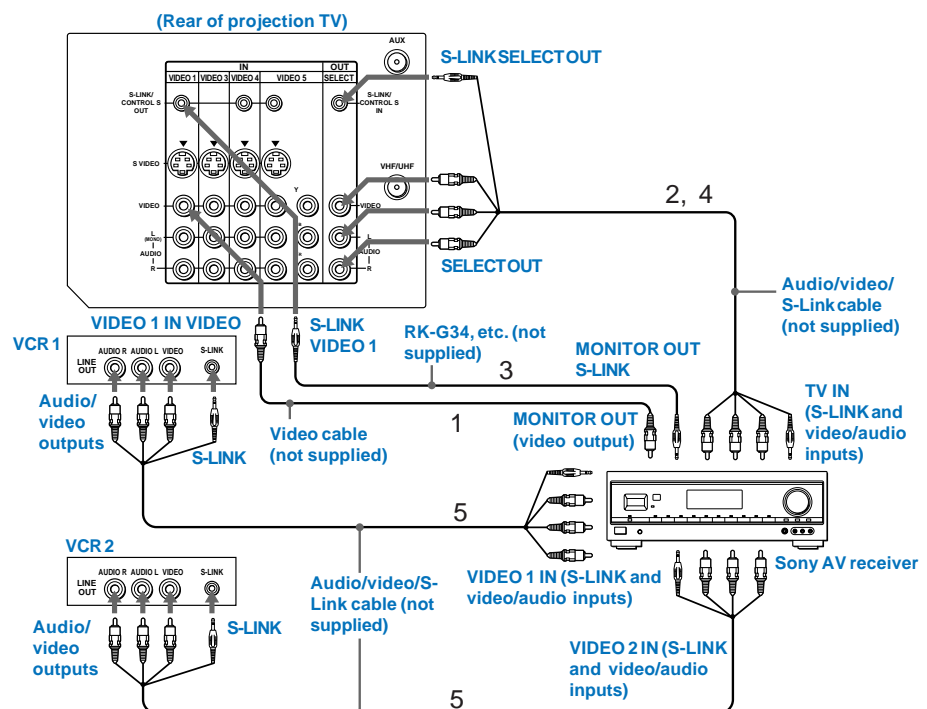
Installing and Connecting the Projection TV (continued)

Disconnect all power sources before making any connections.

Using the S-Link function with a Sony AV receiver

- 1 Using VIDEO connector, connect VIDEO 1 IN on your projection TV to MONITOR VIDEO OUT on your Sony AV receiver.
- 2 Using AUDIO/VIDEO connectors, connect SELECT OUT on your projection TV to TV AUDIO and VIDEO IN on your receiver.
- 3 Using an S-LINK connector, connect S-LINK on VIDEO 1 IN on your projection TV and S-LINK on MONITOR OUT on your AV receiver.
- 4 Using an S-LINK connector, connect projection TV's S-LINK on SELECT OUT to S-LINK on TV IN on your AV receiver.
- 5 Using AUDIO/VIDEO and S-LINK connectors, connect your Sony video equipment to your AV receiver.

Refer also to the Operating Instructions supplied with your VCR, DBS tuner, DVD player, LD player and other Sony video equipment for details.



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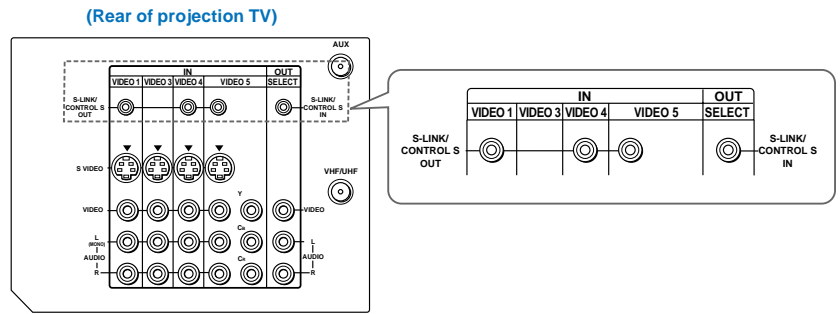
Disconnect all power sources before making any connections.

Using the CONTROL S feature

CONTROL S allows you to control your projection TV and other Sony equipment with one remote control.

To control other Sony equipment with your projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.

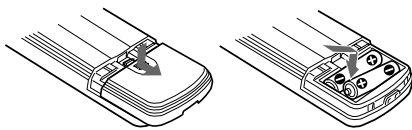
To control your projection TV with other Sony equipment's remote control, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.



Basic Set Up

Inserting Batteries

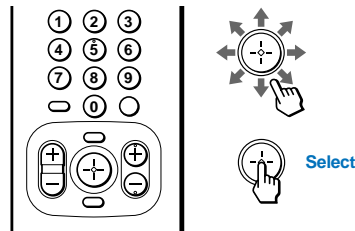
Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the remote control's battery compartment.



Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 52)

Using the Remote Control Joystick



The supplied remote control has a joystick which moves the on-screen selector in eight directions. In most cases, moving the joystick up, down, left or right will cause the selector to *move* in the selected direction.

In some cases, the selector may move in eight directions according to your moving direction. Pressing down on the center of the joystick (⊕) will *activate* the selected item.

You may also move the joystick right to activate the selected item. (There are some exceptions to this option.)

Adjusting Sliders

When menu items present a slider (■ or ←), move the joystick up, down, left or right to adjust the setting.

On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

When the instructions are presented, use them to supplement the instructions in this manual.

Using Your New Projection TV

Setting Up the Projection TV Automatically

The AUTO SET UP feature will allow you to set the on-screen language and set all receivable channels. The AUTO SET UP screen will appear every time you turn on the projection TV until you perform AUTO PROGRAM.

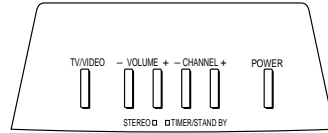
The AUTO SET UP feature does not apply for installations that use a cable box for all channel selection.

You can also set up the projection TV manually. (see "Using the CHANNEL SET UP menu" on page 43)

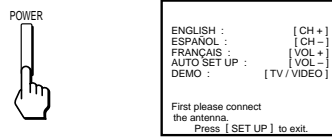
Notes:

- Before you perform AUTO SET UP again, make sure that the input from ANT (not AUX) is selected by pressing ANT until "AUX" does not appear next to the channel number.
- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- When you perform AUTO PROGRAM, your CHANNEL FIX, ON/OFF TIMER, and CHANNEL BLOCK settings will be erased.
- When you perform AUTO PROGRAM, all the settings in the VIDEO, ADVANCED VIDEO and AUDIO menus are reset to the factory settings.

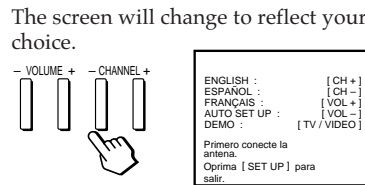
Using the buttons on the front panel of the projection TV:



- 1 Press POWER to turn on the projection TV. Then press SET UP button inside the drop-down panel on the projection TV. The AUTO SET UP screen appears.

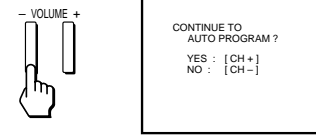


- 2 Press CHANNEL + to select English, CHANNEL - to select Spanish or VOLUME + to select French.

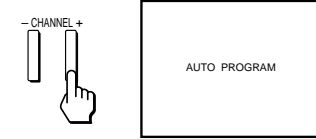


For a DEMO of functions and menus, press TV/VIDEO.

- 3 Press VOLUME - to continue.



- 4 Press CHANNEL + to preset channels automatically.



"AUTO PROGRAM" appears and the projection TV starts scanning and presetting channels automatically. While scanning, the received channel will be displayed on the sub screen. When all the receivable channels are stored, the lowest numbered channel is displayed. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

(continued)

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Using Your New Projection TV (continued)

To perform AUTO SET UP again

- Press SET UP inside the drop-down panel on the projection TV.
- Press CHANNEL +, CHANNEL - or VOLUME + to select a language.
- Press VOLUME - to restore factory settings ("CONTINUE TO AUTO PROGRAM?" will appear on the screen. Press CHANNEL+ to execute or CHANNEL- to exit).
- Press SET UP to exit.

Adjusting the Convergence Automatically (AUTO FOCUS)

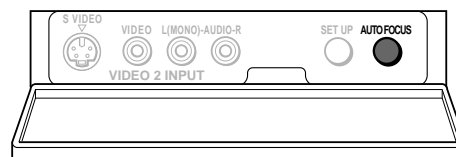
The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence. The AUTO FOCUS feature allows you to adjust the convergence automatically.

Using the AUTO FOCUS button inside the drop-down panel on the projection TV:

Tip

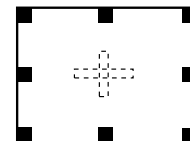
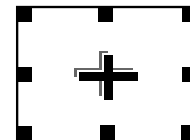
- It is recommended to perform AUTO FOCUS about 30 minutes after the projection TV is turned on.



Press AUTO FOCUS.



The cross pattern appears and auto convergence works. It is completed when the cross pattern becomes white.



Note:

- You will not be able to perform any other functions until AUTO FOCUS has completed its cycle.

Watching the TV

Many TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using the White Labeled Buttons for Projection TV Operations.	
TV (FUNCTION)	Activates the remote control for use with the projection TV.
TV POWER	Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
0 - 9 and ENTER	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0), the channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/-	Press to scan through the channels (+ up or - down).
VOL +/-	Press to adjust the volume (+ up or - down).
JUMP	Press to alternate or <i>jump</i> back and forth between two channels. The projection TV will jump between the current channel and the last channel selected using the 0-9 buttons.
MUTING	Press to mute the sound. "MUTING" will appear on the screen and will dim three seconds later. Press again or press VOL + to restore sound.

(continued)

PICTURE MODE

Press PICTURE MODE repeatedly to choose one of five different video modes that best suits the program you are watching directly. You can also adjust the picture items for each mode to suit your taste. When adjusting them, first select each MODE individually.

VIVID: Select for enhanced picture contrast and sharpness.

STANDARD: Select to display a standard picture.

MOVIE: Select to display a finely detailed picture.

GAME: Select to display graphics such as a video game.

PRO: Select to reproduce the original scene

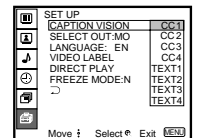
For details, see "MODE" on page 35.

Using Your New Projection TV (continued)

Using the White Labeled Buttons for Projection TV Operations.	
FREEZE <i>(yellow labeled button)</i>	Press to <i>freeze</i> the picture. Press again or press OFF to cancel. If you select TWIN as a FREEZE MODE in the SET UP menu, you can freeze the desired scene and display it on the left while viewing the normal picture on the right. (see "FREEZE MODE" on page 51) Note: If the frozen picture mode lasts for an hour, frozen mode will be canceled and the normal picture is resumed.
SLEEP	Press repeatedly until the projection TV displays the approximate time in minutes (30, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until "SLEEP OFF" appears.
DISPLAY	Press to display the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected). The SAP indication disappears and the other indications dim after three seconds. To turn the display off, press DISPLAY again.
CC	Press repeatedly to step through available displays: XDS XDS (Extended Data Service) shows a network name, program name, program type, program length, program description, call letters and time of the show if the broadcaster offers this service. Caption Vision Caption Vision will be displayed on the screen if the broadcaster offers this service. (see right) No display "OFF" appears and the display is canceled.

CAPTION VISION

(Closed Caption)



Some programs are broadcast with Caption Vision. To display Caption Vision, select **CC**1, **CC**2, **CC**3, **CC**4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. (see "CAPTION VISION" on page 48) Then press the **CC** button until Caption Vision is displayed.

CC1, **CC**2, **CC**3 or **CC**4 shows you a caption, that is, a printed version of the dialogue or sound effects of a program. (The mode should be set to **CC**1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is, information presented, using half of the screen. It is not usually related to the program.

Notes:

- Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of intended text.
- XDS, Caption Vision, and the status display cannot be used at the same time.

Using the White Labeled Buttons for Projection TV Operations.	
TV/VIDEO	Press repeatedly to step through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 and VIDEO 5 If you select SKIP as a VIDEO LABEL in the SET UP menu, your projection TV will skip the video input you selected. (see "VIDEO LABEL" on page 49)
ANT <i>(AUX input)</i>	Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable box and cable" or "Cable and antenna" on page 3)
MTS	Press to cycle through the Multi-channel TV Sound (MTS) options. (see "MTS" on page 38)
SYSTEM OFF <i>(green labeled button)</i>	Press to turn off the projection TV and all other equipment connected with S-Link. (see "Using the S-Link/CONTROL S function" on page 19)



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using Your New Projection TV (continued)

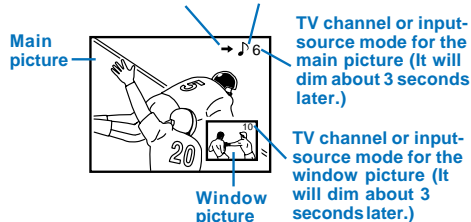
Watching Two Programs at One Time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture.

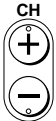
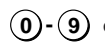








In this feature you can move the location of a window picture as you like.

The symbol "➔" or "➜" indicates which picture's TV channel or input source can be changed.

The symbol "≥" indicates which picture's sound is being received.



Using the Yellow Labeled Buttons for PIP Operations.	
	Press to display a window picture. Each time you press, the picture size will change (1/4 → 1/9 → 1/16). Press OFF to remove the window picture.
POSITION 	Press to move the location of the window picture (counterclockwise) around the main picture.
ACTIVE 	Press to allow you to alternate, between the main picture and the window picture, the picture for which you can change the TV channel or video source using the white labeled buttons below. The symbol "➔" (or "➜") will appear, to indicate which picture's channel or input mode can be changed.
 <i>(white labeled button)</i>	To move the location of the window picture as you like, move and hold the joystick in any direction and release it when the picture is in the desired location.
TV/VIDEO <i>(white labeled button)</i>	Press repeatedly to step through the available video inputs for the picture on which the symbol "➔" (or "➜") is displayed. (see "TV/VIDEO" on page 27)

Using the Yellow Labeled Buttons for PIP Operations.	
 or  or  and ENTER <i>(white labeled button)</i>	Press to select the TV channel of the picture on which the symbol "➔" (or "➤") is displayed. (for details, see "Watching the TV" on page 25)
 <i>(white labeled button)</i>	Press to change between the VHF/UHF input and the AUX input of the picture on which the symbol "➔" (or "➤") is displayed.
	Press to alternate sound between the main picture and the window picture. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.
	Great for copying down phone numbers, addresses, recipes, etc. Press to freeze the main and window pictures. The symbols "➔" and "♪," and the channel number disappear. Press again to resume PIP viewing. Press  to cancel and resume normal TV viewing.
	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be exchanged.
	Press to access CHANNEL INDEX for direct channel selection. (see "Using CHANNEL INDEX" on page 32)
	Press to cancel PIP function and return to normal viewing.



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Note:

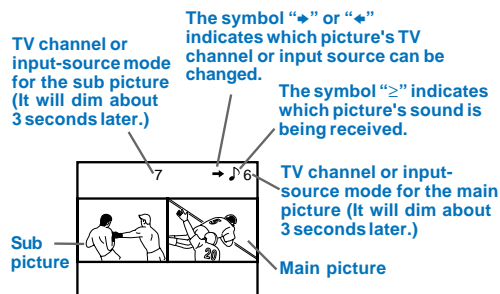
- If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 43)







Using Your New Projection TV (continued)

Watching Two Programs at One Time — P&P (Twin View™)

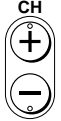








The Picture-and-Picture (P&P) feature allows you to view two channels simultaneously, both in a reduced size screen. The main picture will appear on the right.

In this feature you can change the size of both pictures as you like.



Using the Yellow Labeled Buttons for P&P Operations.	
	Press to display right (main) and left pictures. Press  to remove the window picture.
 or 	Press and hold either RIGHT or LEFT to zoom in on the selected picture. Release at the desired size. The other picture will be zoomed out simultaneously. Moving and holding the joystick right or left will activate the same function.
	Press to allow you to alternate, between the right and left pictures, the picture for which you can change the TV channel or video source using the white labeled buttons below. The symbol "➔" (or "➤") will appear, to indicate which picture's channel or input mode can be changed.
 <i>(white labeled button)</i>	Press repeatedly to step through the available video inputs for the picture on which the symbol "➔" (or "➤") is displayed. (see "TV/VIDEO" on page 27)

Using the Yellow Labeled Buttons for P&P Operations.

 or  or  and ENTER <i>(white labeled button)</i>	Press to select the TV channel for the picture on which the symbol "▶" (or "◀") is displayed. (for details, see "Watching the TV" on page 25)
 <i>(white labeled button)</i>	Press to change between the VHF/UHF input and the AUX input of the picture on which the symbol "▶" (or "◀") is displayed.
	Press to alternate sound between the right and left pictures. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.
	Great for copying down phone numbers, addresses, recipes, etc. Press to freeze both the right and left pictures. Press again to resume P&P viewing or press  to cancel and resume normal TV viewing.
	Press to switch the audio and video of the right and left pictures. Each time you press SWAP, the picture and sound of the two will be exchanged.
	Press to cancel P&P function and return to normal viewing.



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Note:

- If one of the pictures received through P&P is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "CHANNEL SKIP" on page 43)

Using Your New Projection TV (continued)

Using CHANNEL INDEX

You can use the CHANNEL INDEX feature to display multiple channels for direct selection.


Channels used for CHANNEL INDEX will come directly from the TV's list of receivable channels (those set during AUTO PROGRAM or through the CHANNEL SET UP menu).

- 1 Press .

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, surrounding the center picture. These small pictures move and pause alternately, in intervals of one second. (The channel number and channel caption (if set) on the second and later appearances will dim.)



A cyan frame will appear to indicate current channel selection.

- 2 Move the joystick in any of eight directions to move the cyan frame to the picture that you wish to view, and press .



The selected channel will zoom in and move to the center, and the sound of that channel will be heard.

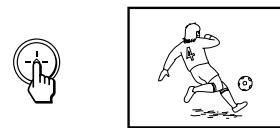


- 3 If you wish to view another channel, repeat step 2.

To view the normal picture of the selected channel, proceed to step 4.






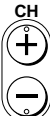


- 4 Press .

The center picture will be enlarged into the whole screen for normal viewing.



Notes:

- You cannot move the cyan frame until all of the surrounding pictures appear.
- The projection TV will continually update each of the surrounding pictures while the CHANNEL INDEX screen is displayed.
- Sound will only be heard from the center picture while the CHANNEL INDEX screen is displayed.
- If one of the pictures received through CHANNEL INDEX is snowy, the entire screen may become unstable. In this case, erase the snowy channel using CHANNEL SKIP. (see "CHANNEL SKIP" on page 43)
- If you leave the CHANNEL INDEX screen displayed for an hour without any operation, CHANNEL INDEX will be canceled and normal picture appears.

Using the Yellow Labeled Buttons for CHANNEL INDEX Operations.	
	Press to display the next twelve receivable channels.
	Press to cancel the current operation and return to normal TV viewing.
FREEZE 	Press to freeze the center picture. Press again to cancel the frozen picture and resume normal center picture viewing.
Using the White Labeled Buttons for Center Picture Operations.	
TV/VIDEO 	Press to cycle the center picture through the video inputs. The surrounding channels will not change.
ANT 	Press to replace the center picture with a channel through between the VHF/UHF input and the AUX input.
 or  or  and ENTER	Press to select the channel for the center picture. (for details, see "Watching the TV" on page 25)



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

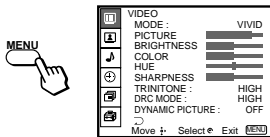
Adjusting Your SET UP (menus)

Learning Menu Selection

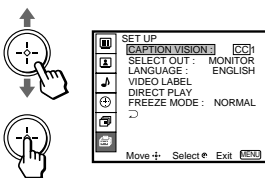
Use the MENU button to access a menu and use the joystick to alter settings. Use the following example to learn how to modify settings.

- 1 Press the MENU button.

The main menu appears.



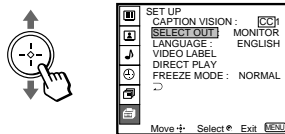
- 2 Move the joystick up or down to highlight the desired menu and press \oplus (press down on the center of the joystick) to activate it.



You may also move the joystick right to activate your selection.

34

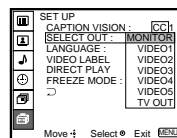
- 3 Move the joystick up or down to highlight the desired option.



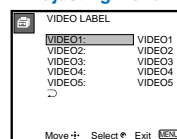
- 4 Press \oplus (press down on the center of the joystick).

Options of your selection (Pop-up menu or Adjusting menu) will be displayed.

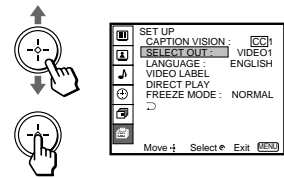
Pop-up menu



Adjusting menu



- 5 Move the joystick up or down to make your selection and press \oplus to activate it. The previous screen will reappear.



Some adjustment menus may require further operations. For details, see each menu option.

When you have finished your changes to the selected menu, choose \curvearrowright at the bottom of the menu and press \oplus to return to the previous screen.

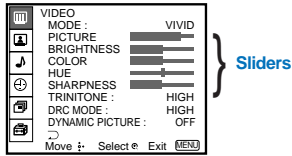
You may also move the joystick left to return to the previous screen except for the slider adjustment menus.

Once you have completed all menu corrections, press MENU to exit the menu screens.

Note:

- Pressing MENU will allow you to exit from the menus at any time.

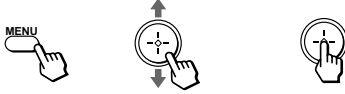
Using the VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

To select the VIDEO menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the VIDEO menu is selected. To restore each MODE to the factory setting, press RESET after selecting the mode to be reset.

Tip

Press **PICTURE MODE** on the remote control for direct selection of a **MODE** setting.

MODE <i>Customized picture viewing</i>	<p>You can choose one of five different video modes that best suits the program you are watching. You can also adjust the picture items for each mode to suit your taste. When adjusting them, first select each MODE individually.</p> <p>VIVID: Select for enhanced picture contrast and sharpness. STANDARD: Select to display a standard picture. MOVIE: Select to display a finely detailed picture. GAME: Select to display graphics such as a video game. PRO: Select to reproduce the original scene.</p>
PICTURE <i>Picture Adjustment</i>	<p>Adjust slider right (up) to increase picture contrast. Adjust slider left (down) to decrease picture contrast.</p>
BRIGHTNESS <i>Picture Adjustment</i>	<p>Adjust slider right (up) to brighten the picture. Adjust slider left (down) to darken the picture.</p>
COLOR <i>Picture Adjustment</i>	<p>Adjust slider right (up) to increase color intensity. Adjust slider left (down) to decrease color intensity.</p>
HUE <i>Picture Adjustment</i>	<p>Adjust slider right (up) to increase the green tones. Adjust slider left (down) to increase the red tones.</p>
SHARPNESS <i>Picture Adjustment</i>	<p>Adjust slider right (up) to sharpen the picture. Adjust slider left (down) to soften the picture.</p>
TRINITONE <i>White Intensity Adjustment</i>	<p>HIGH: Select to give the white colors a blueish tint. MEDIUM: Select to give the white colors a neutral tint. NTSC STD: Select to give the white colors a reddish tint.</p>

(continued)

Adjusting Your SET UP (menus) (continued)

DRC MODE <i>Digital Reality Creation</i>	<p>The DRC feature doubles both the vertical and horizontal information of the conventional NTSC signal, allowing you to obtain a fine-detailed real picture with four times higher-density than the conventional NTSC picture. You can choose HIGH or LOW level. For graphics such as a video game, choose GAME.</p>
DYNAMIC PICTURE <i>Black Intensity Adjustment</i>	<p>Select ON to emphasize the black level and so produce a bolder dynamic picture. Select OFF to cancel the feature.</p>

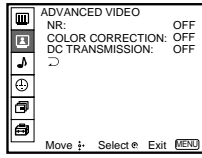
Tip

Since the fine-detailed DRC activated pictures contain information four times larger than conventional pictures, picture noise may appear. In this case, set **NR** to **ON** in the **ADVANCED VIDEO** menu.

Note:

- Some shooting games in which you point a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual applied with the video game software.

Using ADVANCED VIDEO Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

To select the ADVANCED VIDEO menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the ADVANCED VIDEO menu is selected.

Note:

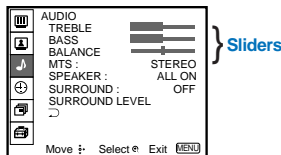
- The items in the ADVANCED VIDEO menu can be set separately from the MODE settings of the VIDEO menu.

NR <i>Noise Reduction</i>	Select ON to reduce picture noise. Select OFF to cancel the feature.
COLOR CORRECTION <i>Color Ratio Adjustment</i>	Select ON to emphasize reds and blues. Select OFF to enhance skin tones (greens).
DC TRANSMISSION <i>Black Level Adjustment</i>	Select ON to automatically improve contrast ratio. Select OFF to reproduce the black level with no compensation.

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Adjusting Your SET UP (menus) (continued)

Using the AUDIO Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

To select the AUDIO menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the AUDIO menu is selected.

TREBLE <i>Sound Adjustment</i>	Adjust slider right (up) to increase high pitched sounds. Adjust slider left (down) to decrease high pitched sounds.
BASS <i>Sound Adjustment</i>	Adjust slider right (up) to increase low pitched sounds. Adjust slider left (down) to decrease low pitched sounds.
BALANCE <i>Sound Adjustment</i>	Adjust slider right (up) to emphasize right speaker volume. Adjust slider left (down) to emphasize left speaker volume.
MTS <i>Enjoy stereo, bilingual and mono programs.</i>	STEREO: Select for stereo reception when viewing a program broadcast in stereo. SAP: Select to listen to a bilingual broadcast. (non-SAP programs will be muted when this feature is selected) MONO: Select for mono reception. (use to reduce noise during stereo broadcasts) Quick MTS access: Press MTS on your remote control to cycle through the MTS options as follows: (STEREO → SAP → MONO → STEREO)
SPEAKER <i>Custom selection of audio output source.</i>	ALL ON: Select to listen to the sound from the projection TV speakers alone. L/R OFF: Select to turn off the projection TV left and right speakers and listen to the left and right channel sounds through a separate audio system's speakers. ALL OFF: Select to turn off the projection TV speakers and listen to the projection TV's sound only through an external audio system's speakers. CENTER IN: Select to use the projection TV center speaker as center speaker when you connect an amplifier with Dolby Pro Logic decoder. (see “Connecting an amplifier with Dolby Pro Logic decoder” on page 18)

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<p>SURROUND <i>Customize surround sound effects based on the program's audio type</i></p>	<p>SURROUND can only be set when SPEAKER is set to ALL ON or L/R OFF.</p> <p>PRO LOGIC: Produces superb theater-like surround effects. Most effective for programs encoded in Dolby surround.</p> <p>3 STEREO: Produces a dynamic three dimensional sound without using the rear speakers. The sound of the rear channel is output from the front speakers.</p> <p>SIMULATED: Adds a surround-like effect to mono programs.</p> <p>LIVE: Produces surround effects with the atmosphere of a concert hall.</p> <p>GAME: Produces maximum audio impact. Most effective for video games.</p> <p>OFF: Normal stereo or mono reception.</p>
<p>SURROUND LEVEL <i>Speaker volume adjustment for surround modes</i></p>	<p>After selecting any surround mode, adjust the volume of each speaker so that the sound will be even and natural. (see "Adjusting the speaker volume for customized surround mode" on page 40)</p>

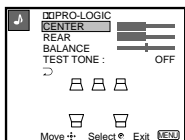
Adjusting Your SET UP (menus) (continued)

Adjusting the Speaker Volume for Customized Surround Mode

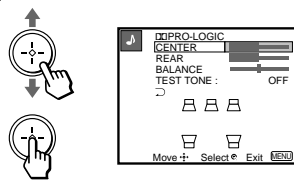
After you set SURROUND to any mode, adjust the volume of the front, center and rear speakers to the same level so that the projection TV's sound will be even and natural. For PRO LOGIC and 3 STEREO, adjust the speaker volume using the test tone feature.

Adjusting the speaker volume

- 1 Select SURROUND LEVEL from the AUDIO menu. (see pages 38 and 39)



- 2 Move the joystick up or down to select the speaker for volume adjustment and press (+).



CENTER: Select to adjust the level of center speaker. (not available for SIMULATED)

REAR: Select to adjust the level of rear speakers. (not available for 3 STEREO)

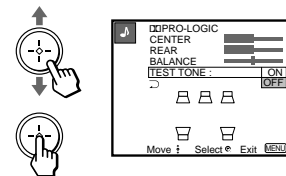
BALANCE: Select to adjust the balance between right and left speakers.

- 3 Move the joystick up, down, left or right to adjust the volume level and press (+).
- 4 Use the joystick to select other speakers and to adjust the volume levels.

Adjusting the speaker volume using the test tone

The TEST TONE feature makes it easier to adjust the volume level. You can use this feature for PRO LOGIC and 3 STEREO modes only.

- 1 With the SURROUND LEVEL window open, move the joystick up or down to select TEST TONE and press (+).



- 2 Move the joystick up or down to select ON.

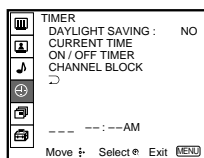
A test tone will be output from each speaker in sequence:

Front left → Center → Front right → Rear

To turn off the test tone, select OFF.

- 3 Follow steps 2 through 4 in "Adjusting the speaker volume."

⊕ Using the TIMER Menu

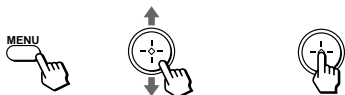


After setting the clock you can use the timer to turn the projection TV on and off.

For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

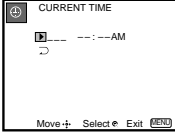
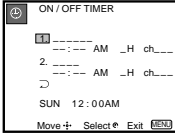
To select the TIMER ⊕ menu:

Display → Highlight ⊕ → Select



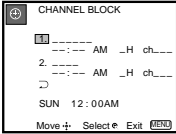
Tip 💡

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

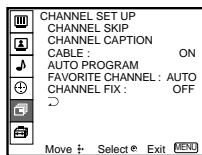
<p>DAYLIGHT SAVING <i>Automatically adjusts the time.</i></p>	<p>Spring: Select YES to compensate for Daylight Saving Time. The current time automatically moves ahead one hour. Fall: Select NO at the end of Daylight Saving Time. The current time moves back one hour.</p>
<p>CURRENT TIME SET <i>Necessary for the TIMER.</i></p>	<p>1 Press ⊕, then move the joystick up or down until the current day (MON-SUN) is displayed, and press ⊕. 2 Move the joystick up or down until the current hour (01-12) and AM/PM is displayed, and press ⊕. 3 Move the joystick up or down until the current minute (00-59) is displayed, and press ⊕. The Clock has now started. Press MENU to exit.</p> 
<p>ON/OFF TIMER <i>Wake up or scheduled viewing.</i></p>	<p>1 Select the desired timer (1 or 2). 2 Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press ⊕. 3 Move the joystick up or down until the time (hours and minutes) that you want the projection TV to remain on is displayed, and then press ⊕. 4 Move the joystick up or down to set the time duration (maximum of 6 hours) and press ⊕. 5 Move the joystick up or down to select the desired channel and press ⊕. The timer is now set. The TIMER indicator on your projection TV will be lit. Press MENU to exit. To cancel your timer setting, select timer 1 or 2 and press RESET while in the ON/OFF TIMER window. Performing AUTO PROGRAM will erase all TIMER settings.</p> 

(continued)

Adjusting Your SET UP (menus) (continued)

<p>CHANNEL BLOCK <i>Prevent access to certain channels.</i></p>	<p>You will be able to block two channels for a period of up to 24 hours.</p> <ol style="list-style-type: none"> 1 Select the desired timer (1 or 2). 2 Move the joystick up or down until the desired day (MON-SUN) or range of days (EVERY SUN-SAT or EVERY MON-FRI) is displayed, and press ⊕. 3 Move the joystick up or down until the time (hours and minutes) that you want the projection TV to turn off is displayed, and then press ⊕. 4 Move the joystick up or down to set the time duration (maximum of 24 hours) and press ⊕. 5 Move the joystick up or down to select the desired channel and press ⊕. Press MENU to exit. If you select the blocked channel during the period you set, only the symbol “🔒” is displayed in the center of the screen and the sound is muted. <p>To erase your CHANNEL BLOCK settings, select timer 1 or 2, then press RESET while in the CHANNEL BLOCK window. Performing AUTO PROGRAM will erase your CHANNEL BLOCK settings.</p> 
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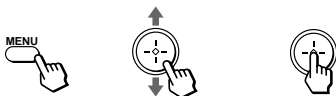
Using the CHANNEL SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

To select the CHANNEL SET UP menu:

Display → Highlight → Select



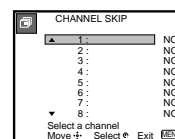
CHANNEL SKIP

Skip unnecessary channels

After AUTO SET UP, you can erase unnecessary channels from the channel preset memory. You can also recover those channels again.

With the CHANNEL SKIP window open:

- 1 Move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL SKIP menu in the center sub screen. You can also use CH +/- or 0-9 and ENTER buttons.
- 2 Press \oplus .
- 3 Move the joystick up or down to select YES, and press \oplus .
The selected channel will be erased.
If you want to re-enter the skipped channel, follow the steps above and select NO.



(continued)

Adjusting Your SET UP (menus) (continued)

<p>CHANNEL CAPTION <i>Easy recognition of the channel you are watching</i></p>	<p>You can add a caption for up to 32 channels of both VHF/UHF and AUX inputs. You can make your own caption. With the CHANNEL CAPTION window open:</p> <ol style="list-style-type: none"> 1 Press \oplus and then move the joystick up or down to select the desired channel. You can view the channel that is selected with the CHANNEL CAPTION menu in the center sub screen. 2 Press \oplus. 3 Move the joystick up or down to display the first letter or number of the caption and press \oplus to select it. Repeat until up to four digits are selected. 4 Press \oplus. <i>To erase a caption, press RESET.</i> 	
<p>CABLE <i>Cable system setting</i></p>	<p>Select ON if your projection TV is connected to a cable system. Select OFF if your projection TV is connected to an antenna. AUTO SET UP will set CABLE to OFF automatically if a cable channel is not available.</p>	
<p>AUTO PROGRAM <i>Automatic channel presetting</i></p>	<p>Select YES to signal the projection TV to automatically program all receivable channels. When all the receivable channels are stored, the lowest numbered channel is displayed. Select NO to cancel AUTO PROGRAM.</p>	

<p>FAVORITE CHANNEL User's favorite channels</p>	<p>The FAVORITE CHANNEL feature enables easy access to the eight channels that you preset (or the last channel that you were watching) . (for details on how to set up this feature, see "Setting and Selecting FAVORITE CHANNEL" on page 46)</p>
<p>CHANNEL FIX Locks selection of your projection TV's input (To be used in conjunction with external equipment such as a cable box, AV receiver, etc.)</p>	<p>2-6: When the cable box is connected to the VHF/UHF input, you can fix the TV's input by selecting channels 2-6. Press DBS/CABLE (FUNCTION) and then CH +/- to change the cable box channels.</p> <p>AUX 2-6: When a cable box is connected to AUX and a cable or antenna is connected to VHF/UHF.</p> <p>VIDEO 1: When you have connected external video equipment (e.g. AV receiver) and you want the projection TV's input fixed to it.</p> <p>OFF: When you want to switch CHANNEL FIX off.</p> <p>If the projection TV is in the AUX mode when you turn CHANNEL FIX off, press ANT to return to UHF input mode.</p> <p><i>TIMER and CHANNEL BLOCK settings are erased when CHANNEL FIX is set. (If ANT2-6 or AUX2-6 is selected, timer settings for those channels remain)</i></p>

Adjusting Your SET UP (menus) (continued)

Setting and Selecting FAVORITE CHANNEL

The FAVORITE CHANNEL feature of your new projection TV enables easy access to the eight channels that you preset (or the last channel that you were watching).

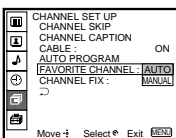
Your FAVORITE CHANNEL options can be set automatically or manually.

The factory setting for FAVORITE CHANNEL is AUTO.

When FAVORITE CHANNEL is set to AUTO, the last eight channels selected with the 0-9 buttons will be set as FAVORITE CHANNEL options. If you prefer to your own selection as FAVORITE CHANNEL options, set to MANUAL.

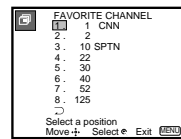
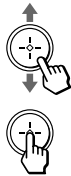
Setting FAVORITE CHANNEL manually

- 1 Select FAVORITE CHANNEL from the CHANNEL SET UP menu. (see page 45)

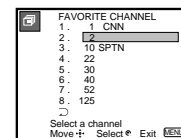


- 2 Move the joystick up or down to select MANUAL and press +.

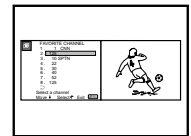
The FAVORITE CHANNEL menu will appear. If you set CHANNEL CAPTION, captions (e.g. CNN, HBO) for the channels will be displayed. (see "CHANNEL CAPTION" on page 44)



- 3 Move the joystick up or down to select a position (1-8), and press +.



- 4 Move the joystick up or down to select a channel. You have now selected a favorite channel for the position you selected.



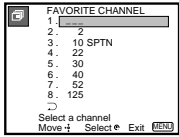
- 5 Press + and use the joystick to select other FAVORITE CHANNEL positions and program other favorite channels. (Follow steps 3 and 4.)
- 6 Press MENU when you have finished. Your favorite channels are now ready to use.

Resetting FAVORITE CHANNEL choices

You have the option of returning to the FAVORITE CHANNEL screen to adjust any of your favorite channel choices.

Simply proceed as described in “Setting FAVORITE CHANNEL manually” (skip step 2 if MANUAL is already selected).

When you reach step 3, select the position you want to change and press \oplus . Press RESET to clear the channel for that position.



Move the joystick up or down to select a new channel. Press MENU when you are done.

Note:

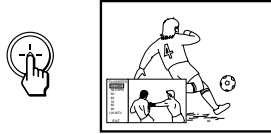
- The FAVORITE CHANNEL feature is not available for the AUX input.

Using FAVORITE CHANNEL

You can use the FAVORITE CHANNEL feature to display a favorite channel menu with a window picture for direct selection.

1 Press \oplus once.

The favorite channel menu and a window picture will be superimposed over the current channel. The window picture displays the channel selected from the menu.



2 Move the joystick up or down to select a channel that you wish to view from the menu.

The picture of the selected channel will be displayed in the window picture.



3 Press \oplus to select the channel.

The selected channel will be displayed for normal viewing.

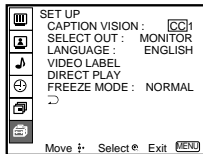


To cancel the favorite channel menu before selecting a channel, move the joystick up or down to select EXIT at the bottom of the menu and press \oplus .

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Adjusting Your SET UP (menus) (continued)

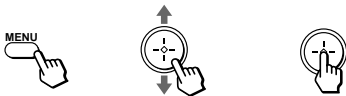
Using the SET UP Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 34.

To select the SET UP menu:

Display \rightarrow Highlight  \rightarrow Select



Notes:

- When you set SELECT OUT to TV OUT, you cannot swap the main/right and window/left pictures.
- The SELECT OUT signal is only available when the projection TV is on.

CAPTION VISION

Television closed
caption display

Some programs are broadcast with Caption Vision.

To display Caption Vision, select the desired option and press \square .

CAPTION VISION options: \square 1, \square 2, \square 3, \square 4, TEXT1, TEXT2, TEXT3 or TEXT4. (for details, see “CAPTION VISION” on page 26)

SELECT OUT

Output signal
selection from
SELECT OUT

You can select the desired output signal from the SELECT OUT jacks at the rear of the projection TV.

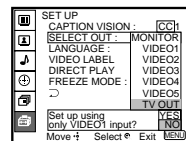
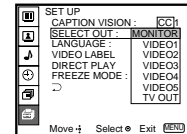
MONITOR: Select to edit tapes while monitoring.

SELECT OUT outputs the picture displayed on the projection TV screen.

VIDEO1–VIDEO5: Select to edit tapes while viewing an input image different from that being recorded.

SELECT OUT outputs the signal input to the projection TV regardless of the displayed picture on the screen.

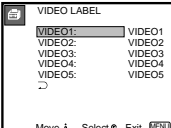
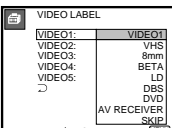
TV OUT: Select if you connect an AV receiver to VIDEO 1 IN. SELECT OUT outputs the signal that the TV is tuned to, regardless of the displayed picture. (see “Connecting an AV receiver” on page 16 for connection) If you select TV OUT, a pop-up menu appears.



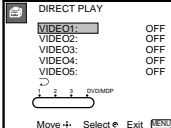
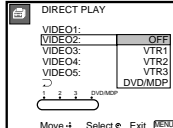
Select **YES** only if you connect an AV receiver, with no other equipment, to your projection TV. You can always select the signal from the receiver by pressing TV/VIDEO once.

Select **NO** if you connect multiple components to your projection TV. You can select an input (VIDEO1 – VIDEO5) with the TV/VIDEO button.

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<p>LANGUAGE <i>User's preferred language</i></p>	<p>Select from available languages (English, Spanish or French) to display all menus in your language of choice.</p>
<p>VIDEO LABEL <i>Easy recognition of connected equipment (e.g. DBS, VHS, etc.).</i></p>	<p>This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).</p> <p>With the VIDEO LABEL window open:</p> <ol style="list-style-type: none"> 1 Move the joystick up or down to select the input mode you want to label and press +.  <ol style="list-style-type: none"> 2 Move the joystick up or down to select the label and press +. <p>VIDEO LABEL Options: VIDEO 1: VIDEO 1, VHS, 8mm, BETA, LD, DBS, DVD, AV RECEIVER, SKIP VIDEO 2-5: VIDEO 2-5, VHS, 8mm, BETA, LD, DBS, DVD, SKIP <i>If you select SKIP, your projection TV will skip this connection when you scan through video sources using the TV/VIDEO button.</i></p> 





Adjusting Your SET UP (menus) (continued)

<p>DIRECT PLAY <i>Easy operation of a connected VCR</i></p>	<p>This feature allows you to switch the input mode from TV to Sony's VCR (MDP or DVD) and start playing by only pressing the ▶ (playback) button on the remote control. You have to set the VTR 1/2/3/DVD/MDP switch on the remote control (e.g., you connect your VCR to the VIDEO 3 IN jacks and set the VTR 1/2/3/DVD/MDP switch to VTR 1). With the DIRECT PLAY window open:</p> <ol style="list-style-type: none"> 1 Move the joystick up or down to select the input to which your video equipment is connected, and press +.  <ol style="list-style-type: none"> 2 Move the joystick up or down to select the position of the VTR 1/2/3/DVD/MDP switch, and press +. 
--	---

FREEZE MODE
Freeze picture mode

Ideal for copying down phone numbers, addresses, recipes, etc.





NORMAL: Select to freeze the whole picture on the screen by pressing FREEZE.

Recipe
flour --- 2 
sugar --- 1/2 
salt --- 1/2 
butter --- 1 

The current picture freezes.


TWIN: Select to freeze the desired scene and display it on the left of the screen while viewing the normal motion picture of the current channel on the right by pressing FREEZE.
This mode is not available for PIP, P&P or CH INDEX screens.

Frozen picture

Recipe
flour --- 2 
sugar --- 1/2 
salt --- 1/2 
butter --- 1 

6

Normal motion picture



Press again or press **OFF** to display the normal picture.

Operating Video Equipment

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

- Set the VTR 1/2/3/DVD/MDP switch to the position through which you would like to access the video equipment.

The following Sony equipment is preset to each position of the switch:

VTR1 (303)	Beta, ED Beta VCRs
VTR2 (302)	8 mm VCR
VTR3 (301)	VHS VCR
DVD/MDP (751)	DVD Player

- Press CODE SET, DVD/VTR (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



If the remote control doesn't work

- See the note on page 54.

VCR manufacturer code numbers

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Admiral (M. Ward)	327
Audio Dynamic	314, 337
Bell & Howell (M. Ward)	330, 343
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Go Video	340, 339, 322
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304

Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 329, 312, 313, 310
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
Sylvania	308, 309, 338, 310
Symphonic	338
SV2000	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Teknica	342, 338
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
XR-1000	315
Yamaha	330, 314, 336, 337
Zenith	331

Operating Video Equipment (continued)

MDP manufacturer code numbers

Manufacturer	Code
Sony	701
Panasonic	704
Pioneer	702

DVD Player manufacturer code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754










Tips

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.




To operate video equipment



- 1 Set the VTR1/2/3/DVD/MDP switch to the position through which you would like to access the video equipment.
- 2 Use the VCR/DVD/MDP buttons indicated in the following tables.

Operating a VCR using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To select a channel	Press the 0 – 9 buttons.
To change channels	Press CH +/-.
To record	Press  (REC) while pressing  (lower).
To play	Press  .
To stop	Press  .
To fast forward	Press  .
To rewind the tape	Press  .
To pause	Press  . Press again to resume normal playback.
To search the picture forward or backward	Press  or  during playback. Release to resume normal playback.
To change input mode	Press TV/VTR.






Operating an MDP using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press  .
To stop	Press  .
To pause	Press  . Press again to resume normal playback.

To search the picture forward or backward Press  or  during playback. Release to resume normal playback.

To search a chapter forward or backward Press CH +/-.

Operating a DVD Player using the remote control

To turn On/Off	Press DVD/VTR (POWER). [Green Button]
To play	Press  .
To stop	Press  .
To pause	Press  . Press again to resume normal playback.
To step through different tracks of an audio disc	Press  to step forward or  to step backward.
To step through different chapters of a video disc	Press CH+ to step forward or CH- to step backward.
To display the Title menu	Press TITLE.
To display the DVD menu	Press DVD MENU.
To select tracks directly	Press 0-9 buttons.
To display the menu (Set up)	Press MENU.

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Operating a Cable Box or DBS Receiver

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or DBS receiver.

Press CODE SET, DBS/CABLE (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony DBS receiver:



Manufacturer code numbers (cable box)

Manufacturer	Code
Gemini	233
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 222, 206, 207, 208, 218
Macom	230, 231, 232
Magnavox	234
Oak	227, 228, 229
Panasonic	219, 220, 221
Philips	236, 237, 238, 239, 240, 241
Pioneer	214, 215
Samsung	235
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802
RCA/PROSCAN	802

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

- Try repeating the set up procedures using the other codes listed for your equipment.

Tips

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

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If, after reading the following instructions, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

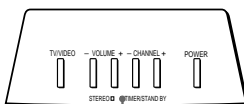
Customers in the continental United States contact the Direct Response Center at:
1-800-222-SONY (7669)

Customers in Canada contact the Customer Relations Center at:
(416) 499-SONY (7669)

The picture turns off and the TIMER/STAND BY indicator on the front panel flashes (self-diagnosis function)

- The projection TV is equipped with a self-diagnosis function. If there is a problem with your projection TV, the TIMER/STAND BY indicator on the front panel will flash repeatedly. Counting the number of flashes helps you inform qualified Sony personnel of the projection TV's condition.

Front of the projection TV



TIMER/STAND BY indicator

- Count how many times the TIMER/STAND BY indicator flashes in total. It flashes twice at 3 seconds' intervals. If, for example, the indicator flashes twice, stops flashing for 3 seconds, and flashes twice again, that counts as twice.
- Press POWER on the projection TV to turn it off, then inform qualified Sony personnel or the above Direct Response Center of the number of flashes.

No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on both the projection TV and the remote control.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2, 3, 4 or 5.
- Try another channel. *It could be station trouble.*
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Remote control does not operate

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your projection TV.
- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Locate the projection TV at least 3-4 feet away from fluorescent lights.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S function" on page 19)
- Check the polarity of the batteries.

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Troubleshooting (continued)

Dark, poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (see "PICTURE" on page 35)
- Adjust BRIGHTNESS in the VIDEO menu. (see "BRIGHTNESS" on page 35)
- Check antenna/cable connections.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)
- Adjust the convergence again using the AUTO FOCUS button. (see "Adjusting the convergence automatically (AUTO FOCUS) on page 24")

Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (see "MUTING" on page 25)
- Check the MTS setting in the AUDIO menu. (see "MTS" on page 38)
- Make sure SPEAKER is set to ALL ON or L/R OFF in the AUDIO menu. (see "SPEAKER" on page 38)
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see "AUTO PROGRAM" on page 44)

No color

- Adjust the COLOR in the VIDEO menu. (see "COLOR" on page 35)
- Black and white programs cannot be seen in color.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (see "To perform AUTO SET UP again" on page 24)

Only snow and noise appear on the screen

- Check the CABLE setting in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (see "ANT" on page 27)

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs or hair-dryers.

Noisy picture (when DRC is set to HIGH in the VIDEO menu)

- Soften the sharpness using SHARPNESS in the VIDEO menu.

TV is fixed to one channel

- Try turning CHANNEL FIX off. (see "CHANNEL FIX" on page 45)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (see "AUTO PROGRAM" on page 44)

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

Cannot receive any channels when using cable TV

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see "AUTO PROGRAM" on page 44)

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

Projection TV malfunctions when using the S-Link function

- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Check the S-Link connection. (see "Using the S-Link/CONTROL S function" on page 19)

INDEX does not display all available channels

- Make sure CABLE is ON in the CHANNEL SET UP menu. (see "CABLE" on page 44)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (see "AUTO PROGRAM" on page 44)

FAVORITE CHANNEL does not display your choices

- Verify that FAVORITE CHANNEL is set to MANUAL in the CHANNEL SET UP menu. (see "Setting FAVORITE CHANNEL manually" on page 46)

Some video sources do not appear when you press TV/VIDEO

- Ensure that VIDEO LABEL is not set to SKIP. (see "VIDEO LABEL" on page 49)

Recording through SELECT OUT does not function properly when recording in PIP or P&P mode

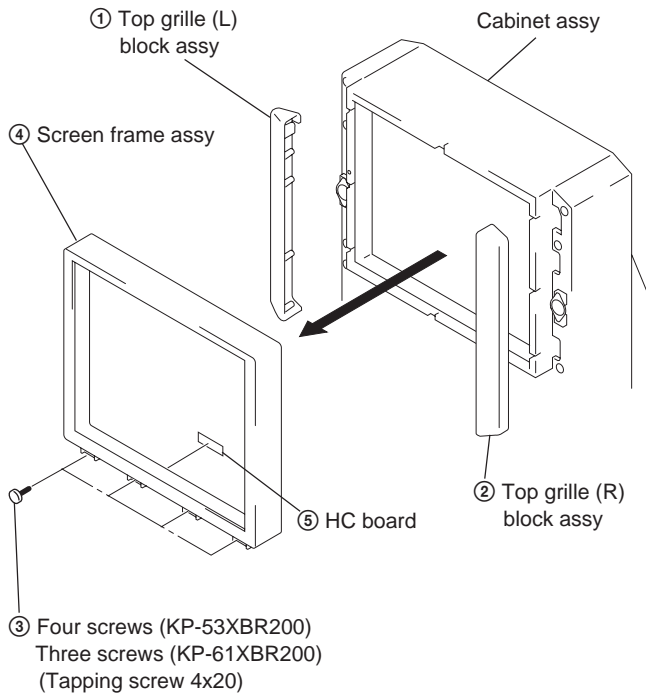
- SELECT OUT will not record both images in PIP or P&P. Only the main picture will be recorded.
- If you are recording the main picture and you switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.

Cannot play shooting game

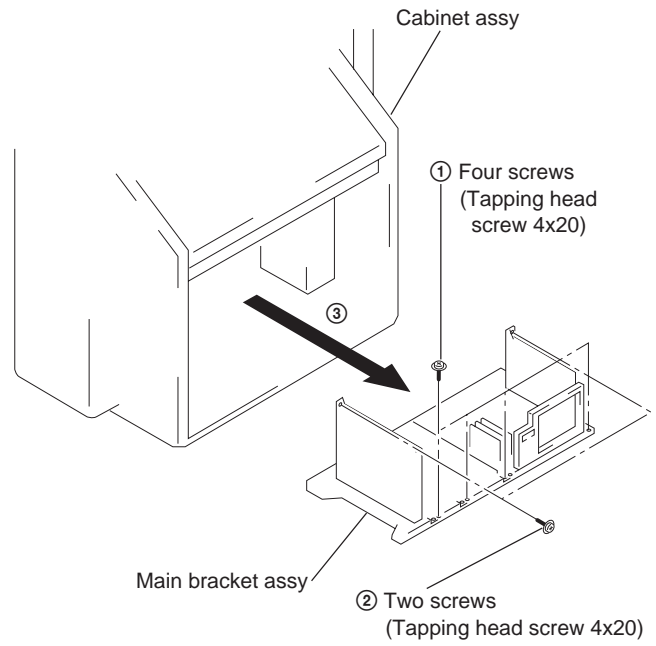
- Some shooting games in which you point a light beam at the TV screen with an electronic gun or rifle cannot be used with this projection TV. For details, see the instruction manual applied with the video game software.

SECTION 2 DISASSEMBLY

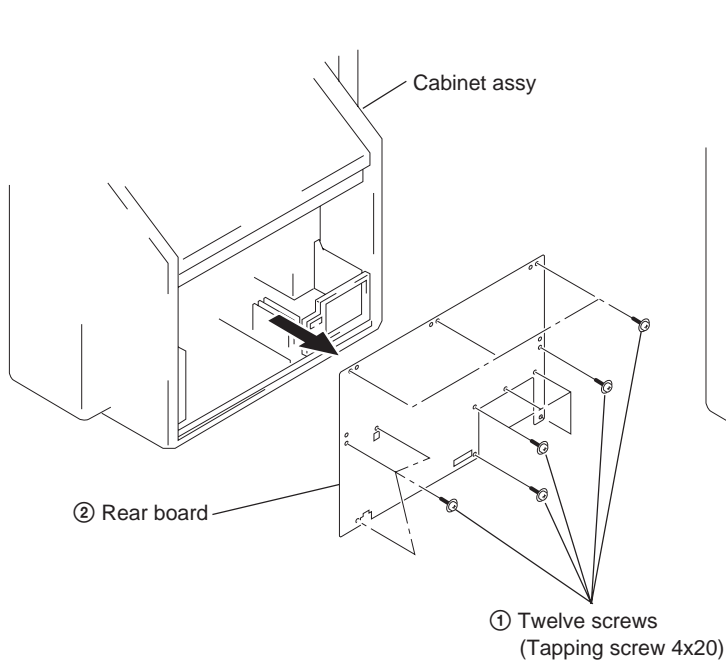
2-1. SCREEN FRAME ASSY AND HC BOARD REMOVAL



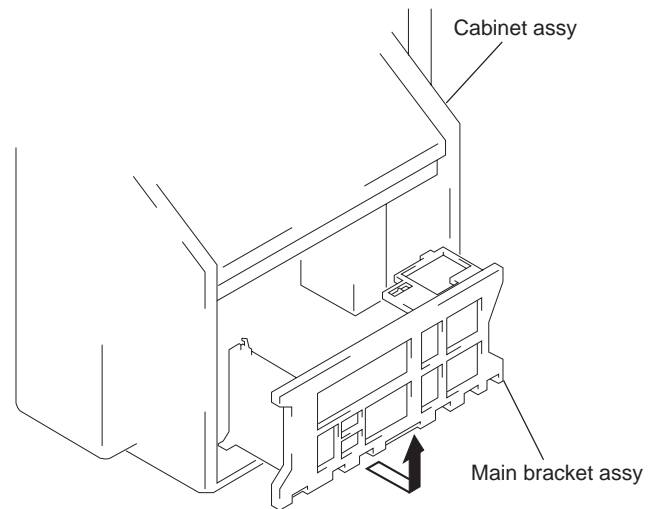
2-3. MAIN BRACKET REMOVAL



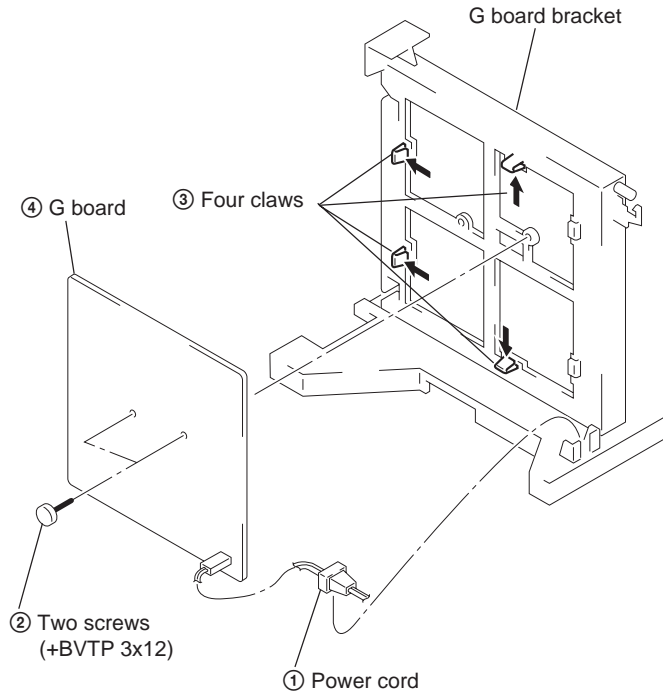
2-2. REAR BOARD REMOVAL



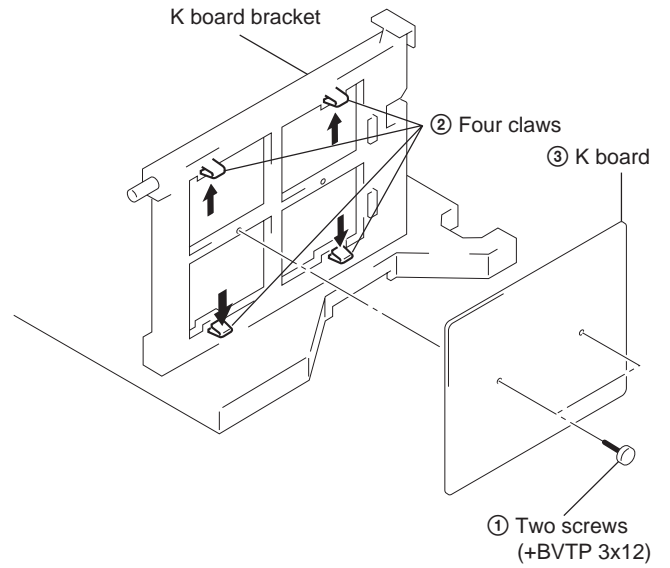
2-4. SERVICE POSITION



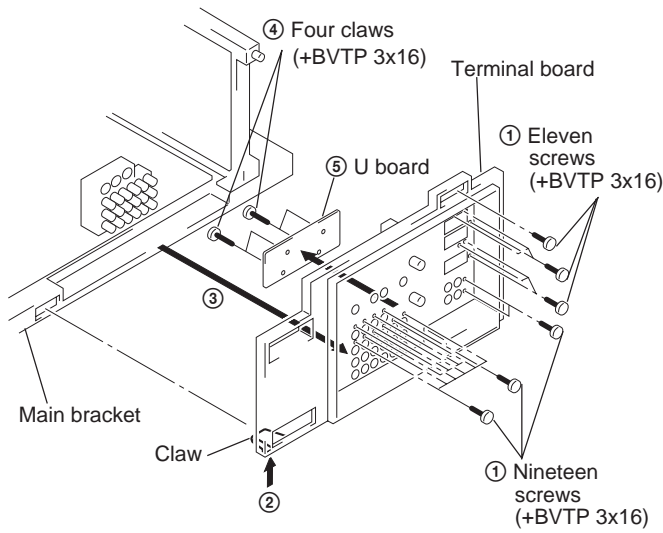
2-5. G BOARD REMOVAL



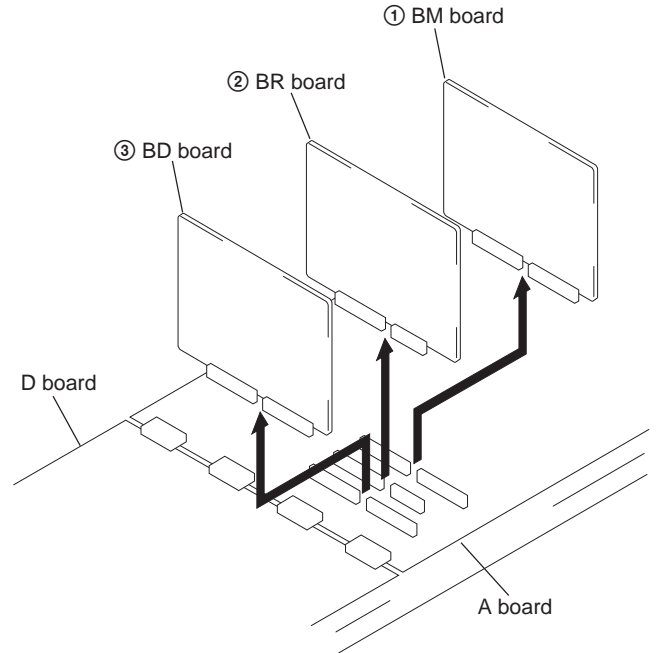
2-7. K BOARD REMOVAL



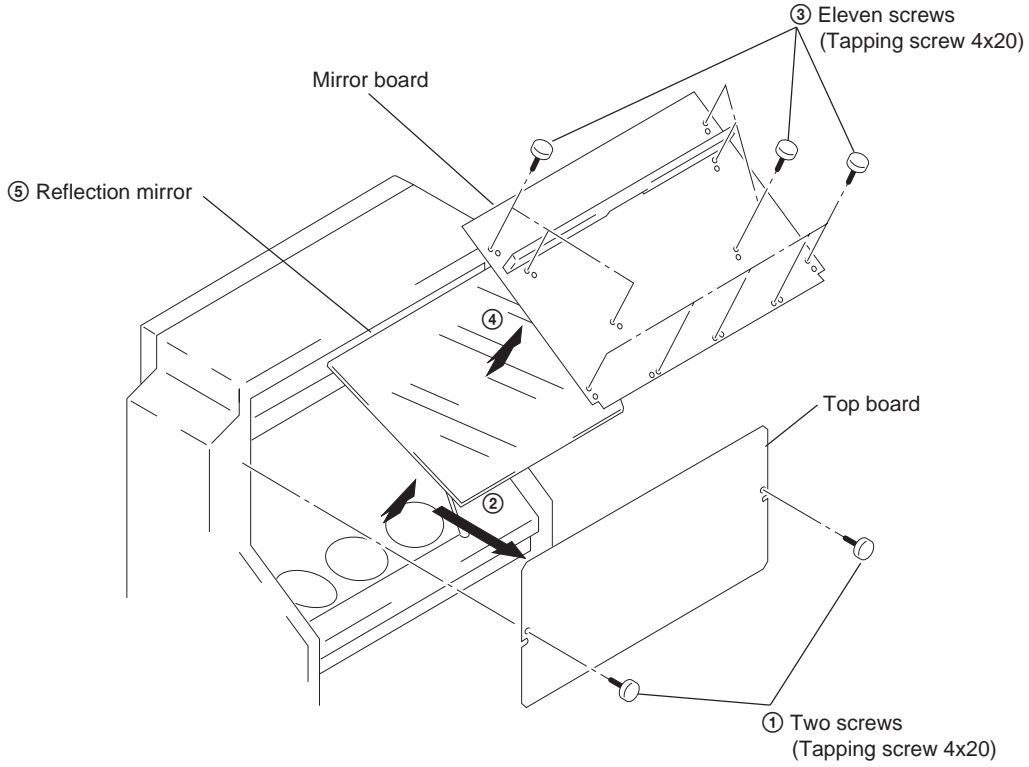
2-6. TERMINAL BOARD AND U BOARD REMOVAL



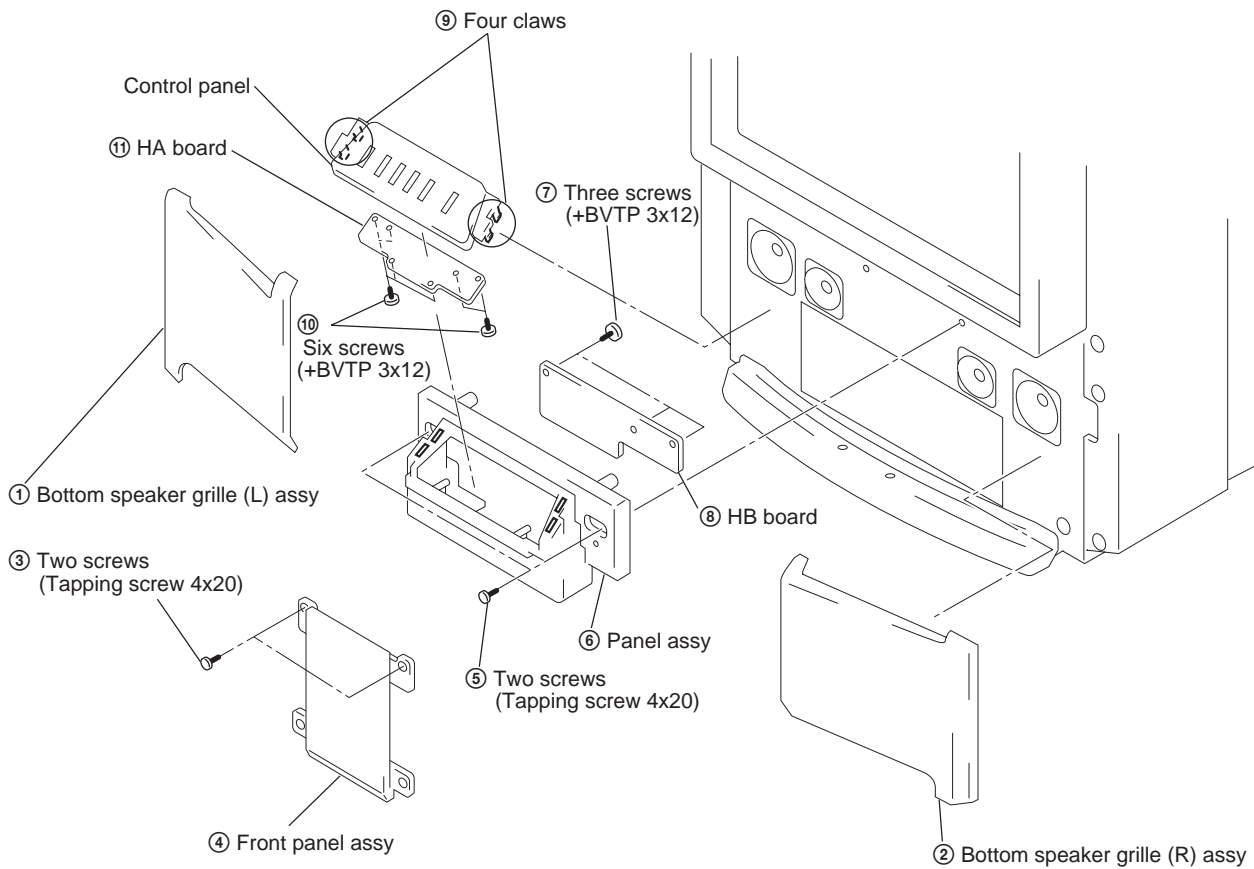
2-8. BM, BR AND BD BOARDS REMOVAL



2-9. REFLECTION MIRROR REMOVAL

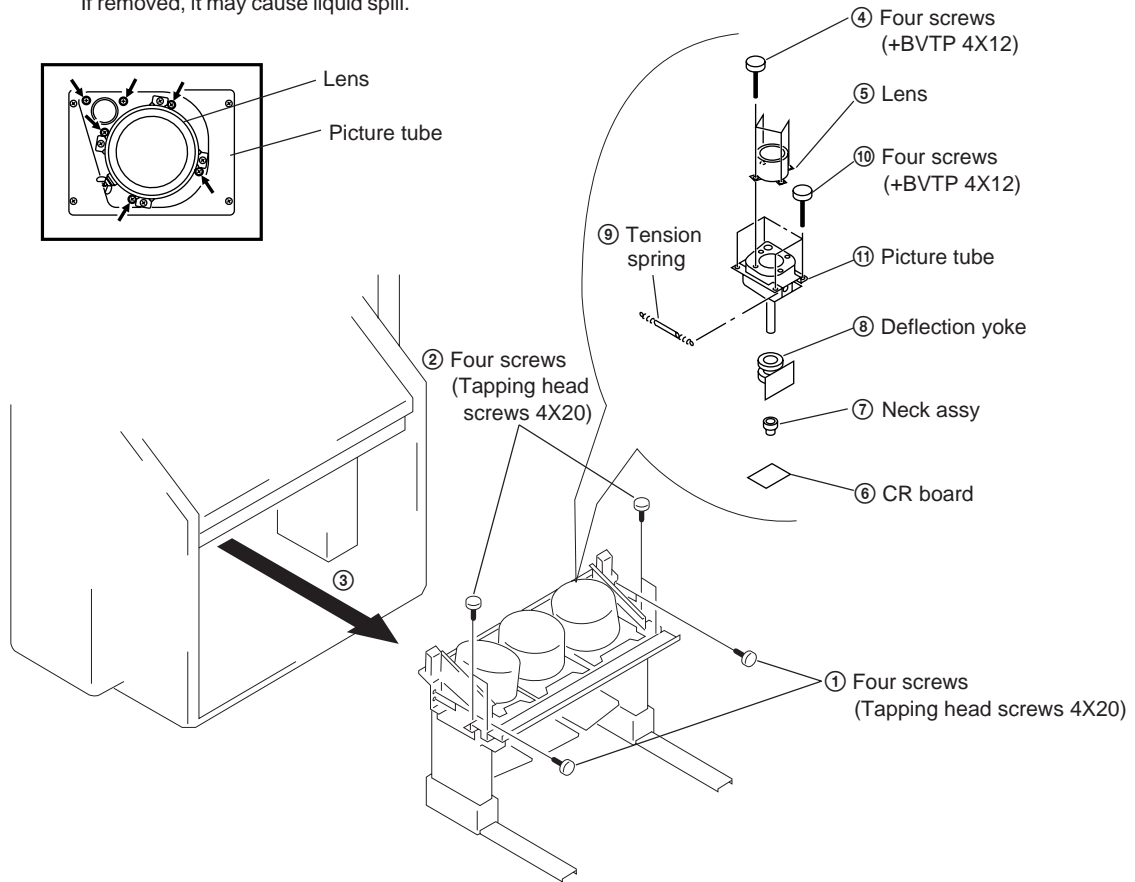


2-10. HA AND HB BOARDS REMOVAL



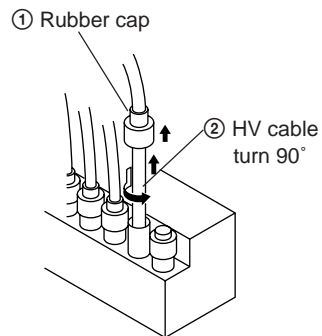
2-11. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited.
If removed, it may cause liquid spill.

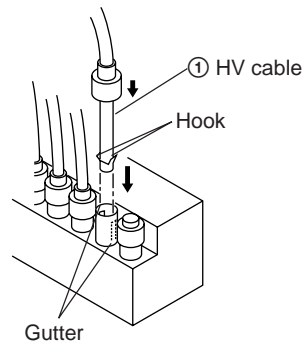


2-12. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Remover



(2) Installation



SECTION 3 SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

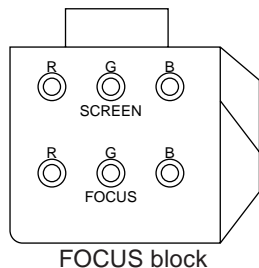
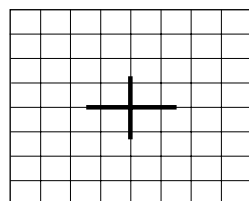


Fig. 3-1

3-2. FOCUS LENS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Use VDSP on the service mode menu to shown only the green color.
4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Use RH from the service mode menu to set to green and red.
7. Output the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.
8. Use BH from the service mode menu to set to red and blue.
9. Output the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.
10. Tighten the lens screw.



Test signal

Fig. 3-2

3-3. SCREEN (G2) ADJUSTMENT

1. Select VIDEO mode without signals.
2. Connect an oscilloscope to the TP701(KR), TP731(KG) and TP761(KB) of CR board, CG board and CB board.
3. Adjust R, G and B screen voltage to $175 \pm 2V$ with screen VR on the Focus block.

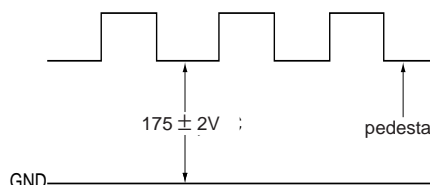


Fig. 3-3

3-4. FOCUS VR ADJUSTMENT

1. Set in service mode.
2. Use VDSP on the service mode menu to shown only the green color.
3. Press the Commander Menu button (convergence) and output the test signal (crosshach).
4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.
5. Use RH from the service mode menu to set to green and red.
6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.
7. Use BH from the service mode menu to set to red and blue.
8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap.

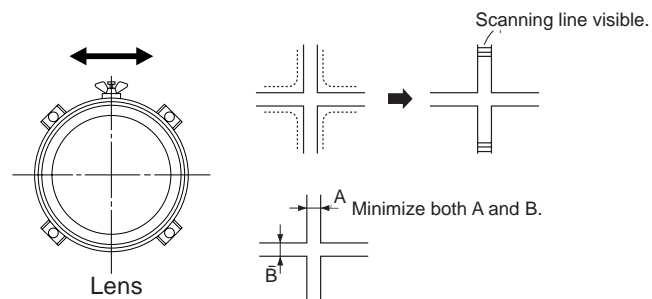


Fig. 3-4

Fig. 3-5

3-5. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Set in service mode.
3. Use VP on the service mode menu to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green.

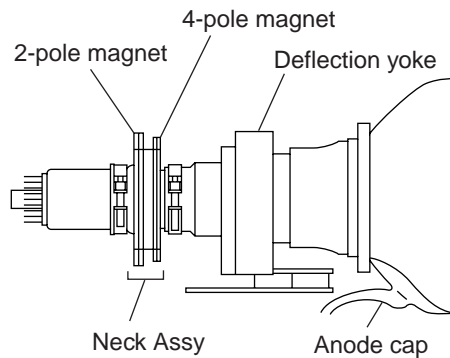


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red and blue.

Use the center dot

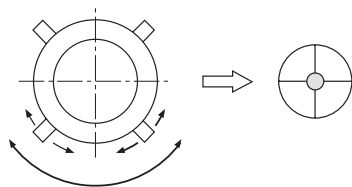


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
6. Perform the same alignment for red and blue.

Use the center dot

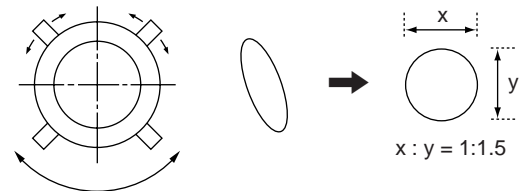


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (Blue)

1. Receive the crosshatch signal
2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right.
3. Blue only defocus Adjustment.

[Focus adjustment point]

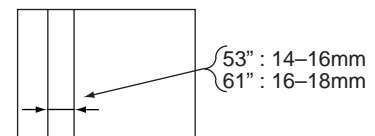


Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y902), all circuit adjustments can be made.

NOTE : Test Equipment Required.



1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

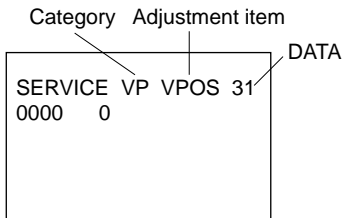
1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER**
 (**+** → **5** →  → )

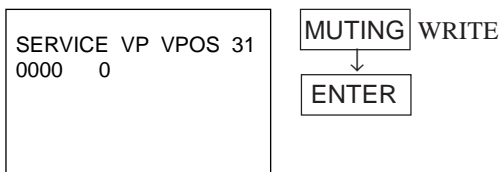
on the Remote Commander.
 (Press each button within a second.)

SERVICE MODE ADJUSTMENT



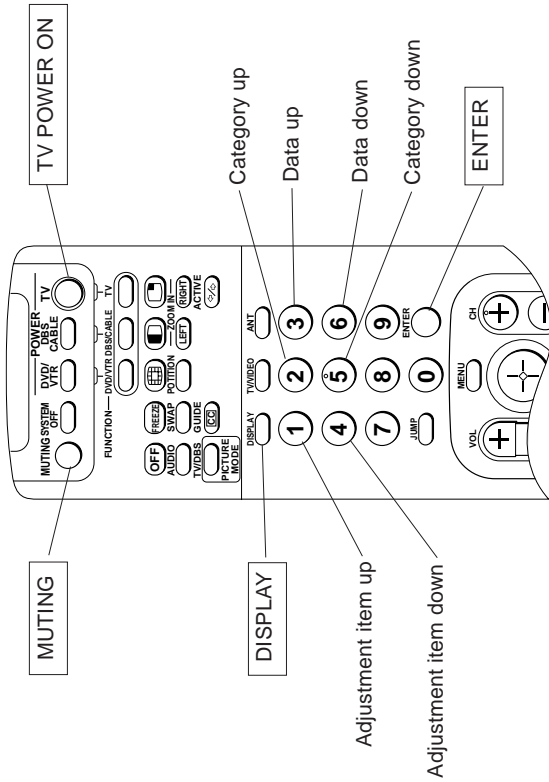
3. The CRT displays the item being adjusted.
4. Press **1** or **4** on the Remote Commander to select the item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. Press **2** or **5** on the Remote Commander to select the category.
7. If you want to recover the latest values press **0** then **ENTER** to read the memory.
8. Press **MUTING** then **ENTER** to write into memory.

SERVICE MODE ADJUSTMENT



9. Press **8** then **ENTER** on the Remote Commander to initialize or turn set off and on to exit.

3. ADJUST BUTTONS AND INDICATOR



RM-Y902

4. SERVICE MODE LIST

VDSP

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
VPOS	00	VPOS	31	0-63	V SHIFT	CXD2018Q
	01	VANG	7	0-15	V ANGLE	
	02	VBOW	7	0-15	V BOW	
	03	VLIN	7	0-15	V LIN	
	04	VSIZ	31	0-63	V SIZE	
	05	VSCO	7	0-15	S CORRECTION	
	06	HPOS	31	0-63	H SHIFT	
	07	HSIZ	31	0-63	H SIZE	
	08	HKEY	7	0-15	TILT	
	09	PAMP	31	0-63	PIN AMP	
	10	UPIN	7	0-15	UPPER CORNER PIN	
11	LPIN	7	0-15	LOWER CORNER PIN		

MCP1

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP1	00	RDRV	31	0-63	R DRIVE	CXA2101AQ
	01	GDRV	31	0-63	G DRIVE	
	02	BDRV	31	0-63	B DRIVE	
	03	RCUT	31	0-63	R CUTOFF	
	04	GCUT	31	0-63	G CUTOFF	
	05	BCUT	31	0-63	B CUTOFF	
	06	SCON	9	0-15	SUB CONTRAST	
	07	SBRT	25	0-63	SUB BRIGHT	
	08	SHUE	7	0-15	SUB HUE	
	09	SCOL	12	0-15	SUB COLOR	
	10	PON	1	"0,1"	PICON	
	11	RON	1	"0,1"	R ON	
	12	GON	1	"0,1"	G ON	
	13	BON	1	"0,1"	B ON	
	14	PABL	15	0-15	PEAK ABL LEVEL	
	15	LTEL	2	0-3	LTI LEVEL	
	16	CTIL	1	"0,1"	CTI LEVEL	
	17	LIMIT	2	0-3	INPUT LEVEL LIMIT	
	18	CB01	7	0-15	CB OFFSET 1	
	19	CR01	7	0-15	CR OFFSET 1	
	20	CB02	7	0-15	CB OFFSET 2	
	21	CR02	7	0-15	CR OFFSET 2	
	22	DCTR	2	0-3	DC TRAN	
23	DPIC	2	0-3	D PIC		

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	06	UDPI	1	"0,1"	USER DYNAMIC PICTURE(VIVID)	
			1	"0,1"	USER DYNAMIC PICTURE(STANDARD)	
			0	"0,1"	USER DYNAMIC PICTURE(MOVIE)	
			0	"0,1"	USER DYNAMIC PICTURE(GAME)	
			1	"0,1"	USER DYNAMIC PICTURE(PRO)	
	07	UVML	3	0-3	USER VM LEVEL(VIVID)	
			2	0-3	USER VM LEVEL(STANDARD)	
			1	0-3	USER VM LEVEL(MOVIE)	
			1	0-3	USER VM LEVEL(GAME)	
			3	0-3	USER VM LEVEL(PRO)	
	08	UGAM	3	0-15	USER GAMMA(VIVID)	
			3	0-15	USER GAMMA(STANDARD)	
			3	0-15	USER GAMMA(MOVIE)	
			3	0-15	USER GAMMA(GAME)	
			3	0-15	USER GAMMA(PRO)	
	09	USCN	0	0-7	USER SUB CONTRAST OFFSET(VIVID)	
			0	0-7	USER SUB CONTRAST OFFSET(STANDARD)	
			0	0-7	USER SUB CONTRAST OFFSET(MOVIE)	
			0	0-7	USER SUB CONTRAST OFFSET(GAME)	
			0	0-7	USER SUB CONTRAST OFFSET(PRO)	

MCD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCD 1 (DRC-TV)	00	SCON	7	0-15	SUB CONTRAST(DRC-TV)	CXA2019AQ
	01	SHUE	7	0-15	SUB HUE(DRC-TV)	
MCD 2 (P&P-TV)	02	SCOL	7	0-15	SUB COLOR(DRC-TV)	
	00	SCON	7	0-15	SUB CONTRAST(P&P-TV)	
MCD 3 (DRC-VIDEO)	01	SHUE	7	0-15	SUB HUE(P&P-TV)	
	02	SCOL	7	0-15	SUB COLOR(P&P-TV)	
MCD 4 (P&P-VIDEO)	00	SCON	7	0-15	SUB CONTRAST(DRC-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(DRC-VIDEO)	
MCD 5	02	SCOL	7	0-15	SUB COLOR(DRC-VIDEO)	
	00	SHUE	7	0-15	SUB CONTRAST(P&P-VIDEO)	
	01	SHUE	7	0-15	SUB HUE(P&P-VIDEO)	
	02	SCOL	7	0-15	SUB COLOR(P&P-VIDEO)	
	00	MVDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
08	DPIC	1	"0,1"	D PIC		
09	DCTR	0	0-7	DC TRAN		

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCP 2 (TV)	00	SSHP	3	0-3	SUB SHARPNESS(TV)	
	01	SHPF	3	0-3	SHARPNESS FO(TV)	
	02	VMDL	3	0-3	VM DELAY(TV)	
	03	SYS	1	"0,1"	SYSTEM(TV)	
MCP 3 (VIDEO)	04	PREO	2	0-3	PRE/OVER RATIO(TV)	
	00	SSHP	3	0-3	SUB SHARPNESS(VIDEO)	
	01	SHPF	3	0-3	SHARPNESS FO(VIDEO)	
	02	VMDL	3	0-3	VM DELAY(VIDEO)	
MCP 4	03	SYS	1	0-3	SYSTEM(VIDEO)	
	04	PREO	2	0-3	PRE/OVER RATIO(VIDEO)	
	00	UPIC	63	0-63	USER PICTURE(VIVID)	
	44		44	0-63	USER PICTURE(STANDARD)	
	40		40	0-63	USER PICTURE(MOVIE)	
	38		38	0-63	USER PICTURE(GAME)	
	38		38	0-63	USER PICTURE(PRO)	
	28		28	0-63	USER BRIGHTNESS(VIVID)	
	31		31	0-63	USER BRIGHTNESS(STANDARD)	
	31		31	0-63	USER BRIGHTNESS(MOVIE)	
	27		27	0-63	USER BRIGHTNESS(GAME)	
	31		31	0-63	USER BRIGHTNESS(PRO)	
	34		34	0-63	USER COLOR(VIVID)	
	31		31	0-63	USER COLOR(STANDARD)	
	31		31	0-63	USER COLOR(MOVIE)	
	31		31	0-63	USER COLOR(GAME)	
	31		31	0-63	USER COLOR(PRO)	
	50		50	0-63	USER SHARPNESS(VIVID)	
	50		50	0-63	USER SHARPNESS(STANDARD)	
	33		33	0-63	USER SHARPNESS(MOVIE)	
	36		36	0-63	USER SHARPNESS(GAME)	
	36		36	0-63	USER SHARPNESS(PRO)	
	2		2	0-3	USER TRINITONE(VIVID)	
	1		1	0-3	USER TRINITONE(STANDARD)	
	0		0	0-3	USER TRINITONE(MOVIE)	
	2		2	0-3	USER TRINITONE(GAME)	
	1		1	0-3	USER TRINITONE(PRO)	
	2		2	0-3	USER DRC MODE(VIVID)	
	2		2	0-3	USER DRC MODE(STANDARD)	
	1		1	0-3	USER DRC MODE(MOVIE)	
	0		0	0-3	USER DRC MODE(GAME)	
	2		2	0-3	USER DRC MODE(PRO)	

VDSP

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 4 (VIDEO)	00	WSC	3	0-3	WSC(VIDEO)	
	01	VTRH	1	0-3	VTRH(VIDEO)	
	02	VTRR	1	0-3	VTRR(VIDEO)	
	03	LDSR	1	0-3	LDSR(VIDEO)	
	04	YPFT	3	0-3	YPFT(VIDEO:NR OFF)	
	05	YPPG	12	0-15	YPPG(VIDEO:NR OFF)	
	06	YPFC	0	"0,1"	YPFT CORING(VIDEO:NR OFF)	
3DCM 5	00	MSS	0	0-3	MSS	
	01	YNKI	2	0-3	YNRK & YNRIV	
	02	YNRL	1	0-3	YNRLIM	
	03	CNKI	2	0-3	CNRK & CNRINV	
	04	CNRL	1	0-3	CNRLIM	
	05	YPFT	3	0-3	YPFT(NR ON)	
	06	YPPG	12	0-15	YPPG(NR ON)	
	07	YHCO	1	0-3	YHCOR(NR ON)	
	08	VIPS	2	0-3	VIPS	
	09	VEGS	1	0-3	VEGS	
	10	CC3N	0	"0,1"	CC3N	
	11	HDP	4	0-7	HDP	
	12	CDL	3	0-7	CDL	
	13	HSSL	12	0-15	HSSL	
	14	VSSL	3	0-15	VSSL	
	15	HPLF	1	"0,1"	HPLLFS	
	16	BPLF	1	"0,1"	BPLLFS	
	17	FSCF	0	"0,1"	FSCFG	
	18	EXAD	1	"0,1"	ADIN	
19	WSLT	255	0-255	WSL THRESHHOLD		

OSD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OSD	00	FREQ	95	0-255	OSD FREQ	MB9091 & OSD U-COM
	01	HPOS	30	0-255	H POSITION	
	02	VPOS	30	0-255	V POSITION	

MCCD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MCCD	00	CRIL	2	0-15	CRI COUNT LOW	MAIN U-COM
	01	CFLD	5	0-15	CAPTION FIXED-FIELD COUNT	
	02	CCDI	3	0-7	CCD INT	
	03	CRIP	4	0-7	CRI & PARITY	
	04	CRIT	1	0-3	CRI TIME CONSTANT(MASK=1,OTT=2)	
05	CSB1	3	0-3	SYNC SLICE BIAS 1		

SCD

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
SCD 1 (TV)	00	SCON	7	0-15	SUB CONTRAST(TV)	CXA2019AQ
	01	SHUE	7	0-15	SUB HUE(TV)	
	02	SCOL	7	0-15	SUB COLOR(TV)	
SCD 2 (VIDEO)	00	SCON	7	0-15	SUB CONTRAST(VIDEO)	
	01	SHUE	7	0-15	SUB HUE(VIDEO)	
SCD 3	02	SCOL	7	0-15	SUB COLOR(VIDEO)	
	00	MYDR	3	0-31	YDRIVE	
	01	Y2DR	31	0-31	Y2 DRIVE	
	02	U2DR	15	0-31	U2 DRIVE	
	03	V2DR	15	0-31	V2 DRIVE	
	04	MUPE	7	0-15	U PED	
	05	MVPE	7	0-15	V PED	
	06	U2PE	7	0-15	U2 PED	
	07	V2PE	7	0-15	V2 PED	
08	DPIC	1	"0,1"	D PIC		
09	DCTR	0	0-7	DC TRAN		

3DCM

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
3DCM 1 (YCS)	00	NRMD	0	0-3	NRMD(YCS MODE)	UPD64081
	01	DYCOR	2	"0,1"	DYCOR(YCS MODE)	
	02	DYGA	11	0-15	DYGAIN(YCS MODE)	
	03	DCCO	1	"0,1"	DCCOR(YCS MODE)	
	04	DCGA	12	0-15	DCGAIN(YCS MODE)	
	05	SELD	1	"0,1"	SELD(YCS MODE)	
3DCM 2 (YCNR)	06	D2GA	4	0-7	D2GAIN(YCNR MODE)	
	00	NRMD	3	0-3	NRMD(YCNR MODE)	
	01	DYCOR	2	"0,1"	DYCOR(YCNR MODE)	
	02	DYGA	11	0-15	DYGAIN(YCNR MODE)	
	03	DCCO	1	"0,1"	DCCOR(YCNR MODE)	
	04	DCGA	12	0-15	DCGAIN(YCNR MODE)	
3DCM 3 (TV)	05	SELD	1	"0,1"	SELD(YCNR MODE)	
	06	D2GA	4	0-7	D2GAIN(YCS MODE)	
	00	WSC	3	0-3	WSC(TV)	
	01	VTRH	1	0-3	VTRH(TV)	
	02	VTRR	1	0-3	VTRR(TV)	
	03	LDSR	3	0-3	LDSR(TV)	
	04	YPFT	3	0-3	YPFT(TV:NR OFF)	
	05	YPPG	12	0-15	YPPG(TV:NR OFF)	
	06	YPFC	0	"0,1"	YPFT CORING(TV:NR OFF)	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	14	ADSW	1	"0,1"	A/BCH ADC INT/EXT(EXT=1)	
	15	OSDH	25	0-63	OSD H POSITION	
	16	OSDV	7	0-63	OSD V POSITION	
	17	WCOL	2	0-3	WKCA/WKCB(A/BCH WINDOW COLOR)	

OP

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OP	00	AGCA	152	0-255	AGC ATT LEVEL	MAIN U-COM
	01	16:9	0	"0,1"	16:9 ON/OFF(ON=1)	
	02	VCHP	0	"0,1"	"V CHIP ON=1, OFF=0"	
	03	SHAD	1	"0,1"	"SHADING ON=1, OFF=0"	

PJED

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
PJED	00	FDIS	0	0,1	FINE ADJUST DISPLAY ON(ON=1, OFF=0)	CM0006AF & PJED U-COM
	01	OSDH	32	0-255	PJED OSD H POSITION	
	02	OSDV	55	0-255	PJED OSD V POSITION	
	03	FVST	82	0-255	FINE V START LINE	
	04	V1ST	0	0-255	V1 START	
	05	V1CU	31	0-255	V1 COUNT UP	
	06	COHP	0	0-255	COARSE H PHASE	
	07	FIHP	180	0-255	FINE H PHASE	
	08	TPHP	80	0-255	TEST PATTERN H PHASE	
	09	DFHP	219	0-255	DF H PHASE	
	10	DFHG	44	-128-+127	DF H GAIN	
	11	DFVG	35	-128-+127	DF V GAIN	
	12	PWM1	0	0-255	PWM1	
	13	PWM2	34	0-255	PWM2	
	14	HBLD	184	0-255	HBLKOUT H DELAY	
	15	HBLW	23	0-63	HBLKOUT PULSE WIDTH	
	16	COGV	0	-127-+127	GV CENTER OFFSET OF AUTO REGI	
	17	CORV	0	-127-+127	RV CENTER OFFSET OF AUTO REGI	
	18	COBV	0	-127-+127	BV CENTER OFFSET OF AUTO REGI	
	19	COGH	0	-127-+127	GH CENTER OFFSET OF AUTO REGI	
	20	CORH	0	-127-+127	RH CENTER OFFSET OF AUTO REGI	
	21	COBH	0	-127-+127	BH CENTER OFFSET OF AUTO REGI	
	22	SORV	0	-127-+127	RV SKEW OFFSET OF AUTO REGI	
	23	SOBV	0	-127-+127	BV SKEW OFFSET OF AUTO REGI	
	24	SOGH	0	-127-+127	GH SKEW OFFSET OF AUTO REGI	
	25	SORH	0	-127-+127	RH SKEW OFFSET OF AUTO REGI	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	06	CSB2	4	0-7	SYNC SLICE BIAS 2	
	07	CREP	142	0-255	CRI SIGNAL END POSITION	
	08	CSDS	8	0-31	DATA START DELAY	
	09	CCDS	9	0-31	CAPTION DATA THRESHOLD	
	10	CHMK	42	0-63	P8 HMASK	
	11	CHSY	136	0-255	P8 HSYNC	
	12	CCDH	27	0-63	CCD H POSITION	

APLR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
APLR	00	SVOL	0	0-15	SUB VOLUME	TDA7321
	01	ATTL	0	0-15	ATT LCH	
	02	ATTR	0	0-15	ATT RCH	
	03	SBAS	7	0-15	SUB BASS	
	04	STRE	7	0-15	SUB TREBLE	

APCS

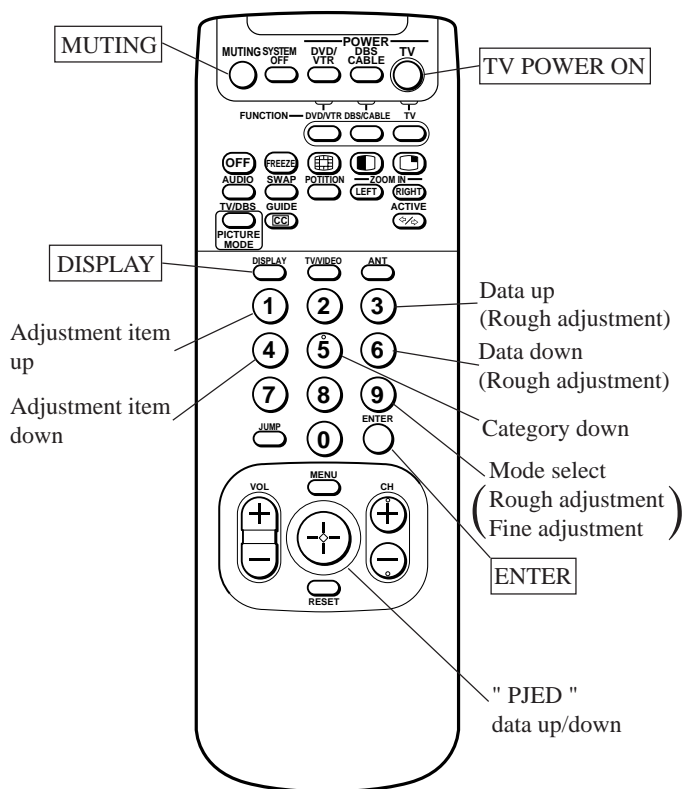
Category	Item number	Adjustment item	Standard data	Data range	Note	Device
APCS	00	SVOL	0	0-15	SUB VOLUME	TDA7321
	01	ATTC	0	0-15	ATT CCH	
	02	ATTS	0	0-15	ATT SCH	
	03	SBAS	7	0-15	SUB BASS	
	04	STRE	7	0-15	SUB TREBLE	

MID

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
MID	00	DLYC	3	0-7	DELAY(Y OUTPUT DELAY)	CXD2079Q & MID U-COM
	01	YSDY	1	0-7	YSDY(Y S DELAY)	
	02	VJTC	0	0-3	VJITTC(V JITTER MODE)	
	03	HPHA	42	0-255	HPHASA(ACH H PHASE)	
	04	VPHA	11	0-255	VPHASA(ACH V PHASE)	
	05	DLYA	4	0-7	DELA(A/ACH Y DELAY)	
	06	HPOA	89	0-255	HPOSIA(ACH H POSITION;NOT USE)	
	07	VPOA	63	0-255	VPOSIA(ACH V POSITION;NOT USE)	
	08	HPHB	42	0-255	HPHASB(BCH H PHASE)	
	09	VPHB	11	0-255	VPHASB(BCH V PHASE)	
	10	DLYB	4	0-7	DELA(B/ACH Y DELAY)	
	11	HPOB	4	0-15	HPOSIB(BCH H POSITION;PIP ONLY)	
	12	VPOB	6	0-15	VPOSIB(BCH V POSITION;PIP ONLY)	
	13	BPDY	0	0-15	BPDELAY(BP DELAY)	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	26	SOBH	0	-127+127	BH SKEW OFFSET OF AUTO REGI	
	27	CENT	0	-512+511	COARSE RH CENTER ADJUST	
			0	-512+511	COARSE GH CENTER ADJUST	
			0	-512+511	COARSE BH CENTER ADJUST	
			0	-512+511	COARSE RV CENTER ADJUST	
			0	-512+511	COARSE GV CENTER ADJUST	
	28	SKEW	0	-512+511	COARSE BV CENTER ADJUST	
			0	-512+511	COARSE RH SKEW ADJUST	
			0	-512+511	COARSE BH SKEW ADJUST	
			0	-512+511	COARSE GH SKEW ADJUST	
			0	-512+511	COARSE RV SKEW ADJUST	
	29	SIZE	0	-512+511	COARSE BV SKEW ADJUST	
			0	-512+511	COARSE RH SIZE ADJUST	
			0	-512+511	COARSE GH SIZE ADJUST	
			0	-512+511	COARSE BH SIZE ADJUST	
			0	-512+511	COARSE RV SIZE ADJUST	
			0	-512+511	COARSE GV SIZE ADJUST	
	30	LIN	0	-512+511	COARSE BV SIZE ADJUST	
			0	-512+511	COARSE RH LIN ADJUST	
			0	-512+511	COARSE BH LIN ADJUST	
	31	KEY	0	-512+511	COARSE RV KEY ADJUST	
			0	-512+511	COARSE BV KEY ADJUST	
	32	PIN	0	-512+511	COARSE RV PIN ADJUST	
			0	-512+511	COARSE GV PIN ADJUST	
			0	-512+511	COARSE BV PIN ADJUST	

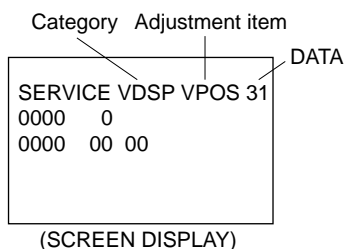
3-10. REGISTRATION ADJUSTMENT
• ADJUST BUTTONS AND INDICATOR



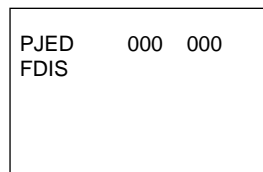
[Setup for Adjustment]

- Current flow in circuit should be stable before attempting adjustment. (So wait about 5 minutes after turning on the TV power switch.
- Use caution since this adjustment affects the [Green (Red, Blue,) Registration] when performed as a rough adjustment.

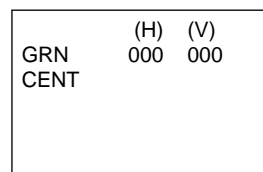
1. Generate a crosshatch signal and display it on the TV screen.
2. Place a cap over the red and blue picture tube guns and set to green (color).
3. Place in test mode.
 - 3-1. Turning on while in standby.
(with TV power switch off)
Press the remote control keys in the following order :
[DISPLAY] → [5] → [VOL+] → [TV POWER]
 - 3-2. Turning on (with TV power switch is ON)
Open the top cover of the remote control.
Press the remote control keys in the following order :
[EJECT] → [REWIND] → [PLAY]



4. Shift to Sub-adjustment mode with key [5] on the remote control.



5. Select "OSDH" "OSDV" with the [1] and [4] keys on the remote control. Use the joystick key to move "OSDH" horizontally and "OSDV" vertically, set the OSD in an easy to see position.
6. Select "GRN CEN" with the [1] and [4] keys on the remote control and check that the adjustment data is now "000" both vertically and horizontally.



* You can now display the crosshatch pattern on the screen by using the [6] key on the remote control.

7. Shift to Main Test mode with the [2] key on the remote control.
8. Select "VPOS" "HPOS" with the [1] and [4] keys on the remote control. Align the centers of "VPOS" and "HPOS" with the [3] and [6] keys.
9. Shift to Subtest mode with the [5] key on the remote control.

SUB DEFLECTION ADJUSTMENT ITEM

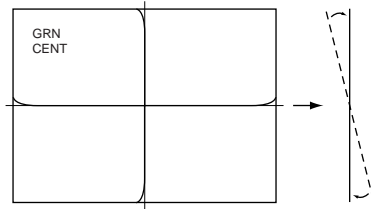
Adjustment O : Yes - : No

Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	-	O	O	O	O
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	-	-	O	-	O	-
KEY	KEY	-	-	-	O	-	O
PIN	PIN	-	O	-	O	-	O

[GREEN REGISTRATION ADJUSTMENT]

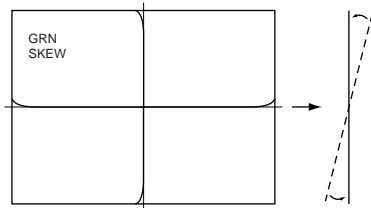
<GREEN CENTER ADJUSTMENT>

1. Select "GRN CENT" with the [1] and [4] keys on the remote control.
2. Use the joystick key on the remote control and adjust the vertical and horizontal section not possible in Main mode. (See item 5 of "Setup for adjustment".)



<GREEN SKEW>

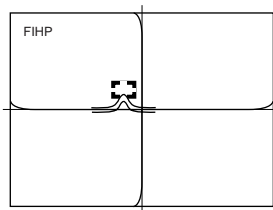
1. Select "GRN SKEW" with the [1] and [4] keys on the remote control.
2. Adjust with the joystick keys on the remote control so that there is no slope on the vertical and horizontal center line.



<H-PHASE ADJUSTMENT(COHP, FIHP, TPHP)>

1. Select "COHP" with the [1] and [4] keys on the remote control and check that the data is "0".
2. Select "FIHP" with the [1] and [4] keys on the remote control.
3. Shift to Fine Adjustment mode with the [9] key on the remote control.
4. Move the joystick key to increase the peak vertically in the + direction to form the peak as shown below.

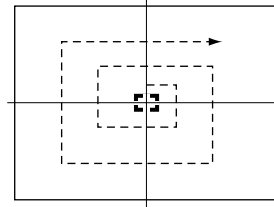
* The speed at which changes in the peak occurs



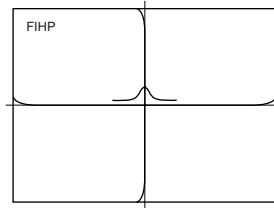
is slow so increasing the data for the peak will make it easier to see.

• Marker Movement

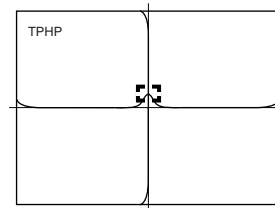
(A vortex shape as shown below appears when the [1] key on the remote control is held down and when the vortex reaches the upper right it again returns to the center of the screen. Reverse this movement with the [4] key on the remote control.)



5. Shift to Rough Adjustment mode with the [9] key on the remote control.
6. Change the FIHP value with the joystick key so that the tip of the peak is in the center of the screen as shown below.

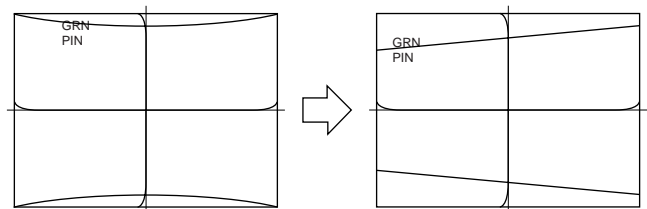


7. Select "TPHP" with the [1] and [4] keys on the remote control. The marker will now appear so use the [1] and [4] keys on the remote control to adjust to position the center of the marker in the screen center.
8. Shift to Fine Adjustment mode with the [9] key on the remote control and return the peak section data.



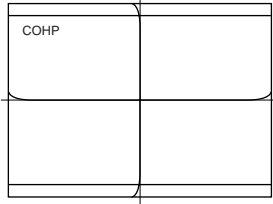
<GREEN PINCUSHION>

1. Shift to Rough Adjustment mode with the [9] key on the remote control.
2. Select "GRN PIN" with the [1] and [4] keys on the remote control.
3. Adjust with the joystick keys on the remote control so that the upper and lower horizontal lines changes from a crooked to nearly a straight shape. (A slope on the line is okay.)



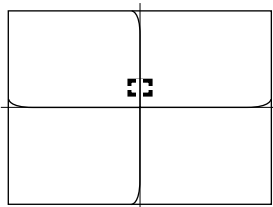
<COHP ADJUSTMENT>

1. Select "COHP" with the **[1]** and **[4]** keys on the remote control.
2. Adjust with the joystick keys on the remote control so that the slope of upper and lower horizontal lines is minimized (see below).



<Final Adjustment>

1. Shift to Fine Adjustment mode with the **[9]** key on the remote control.
2. Use the joystick keys and straighten the vertical and horizontal lines passing through the center spot of the screen. At this time also adjust the linearity especially in the horizontal direction of the middle section.



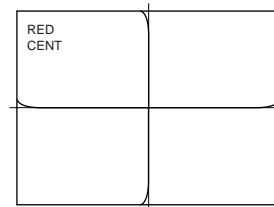
(Effective Adjustment Method)

- This method allows moving to the target position by using the joystick key on the remote control. Shift as needed by pressing once at a time on the joystick key and use the adjust toggle to change the joystick key mode. Check if the mode has changed by viewing the marker color. (Note that this cannot be checked with only 1 color on the screen.)
 - The marker color changes from white to green (red) each time the joystick is pressed. Set to white (color) when shifting the marker.
3. Adjust the screen marker from the center to above the vortex with the **[1]** key on the remote control. At this point be careful not to change the vertical and horizontal lines that were aligned in the previous adjustment. (Use the joystick key mentioned above for the point you want to align.)

[RED REGISTRATION ADJUSTMENT]

<CENTER ADJUSTMENT>

1. Shift to Rough Adjustment mode with the **[9]** key on the remote control.
2. Select "GRN CENT" with the **[1]** key on the remote control.
3. Switch to RED by specifying that color with the key on the remote control and align with the joystick to match with the center point of the screen aligned previously in green.



<SKEW ADJUSTMENT>

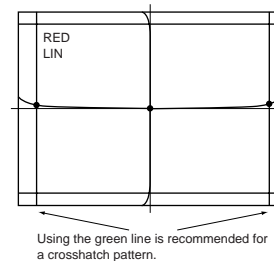
1. Select "RED SKEW" with the **[1]** key on the remote control while set in Rough Adjustment mode. Adjust the slope of the vertical and horizontal lines with the **[3]** and **[6]** keys.

<LINEARITY ADJUSTMENT>

1. In rough adjustment mode, select "RED SIZE" and "RED LINE" with the **[1]** and **[4]** keys on the remote control and adjusting while alternately tracking each.

• H-LIN

Establish points at both ends of the screen as shown below. Adjust these 2 points and the center point with the **[3]** and **[6]** keys so that they match with green point. (In this case, adjust by using the horizontal line in the center.)



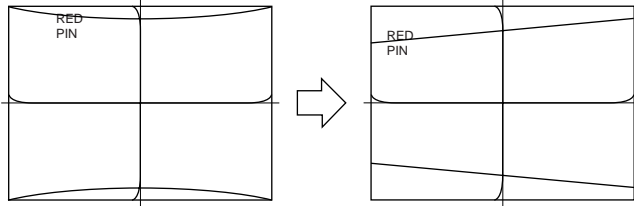
* Usually, the middle section deviates when both ends are aligned but when the peripheries of both ends are aligned, an extra margin of movement is obtained making for an effective adjustment.

• V-LIN

Select "RED SIZE" and adjust using the joystick keys.
* V-LIN is adjusted only with "SIZE".

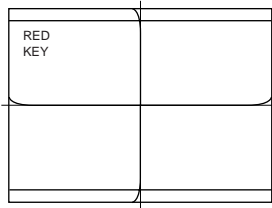
<PINCUSHION ADJUSTMENT>

1. Select "RED" with the [1] and [4] keys on the remote control while in rough adjustment mode.
2. Use the joystick and adjust so that the upper and lower horizontal lines change from a crooked or bent shape to straight lines. Somewhat of a slope is allowed at this time as shown below.



<KEY ADJUSTMENT>

1. Select "RED" with the [1] and [4] keys on the remote control and adjust any slope or inclination remaining from the previous step with the joystick so it becomes horizontal.



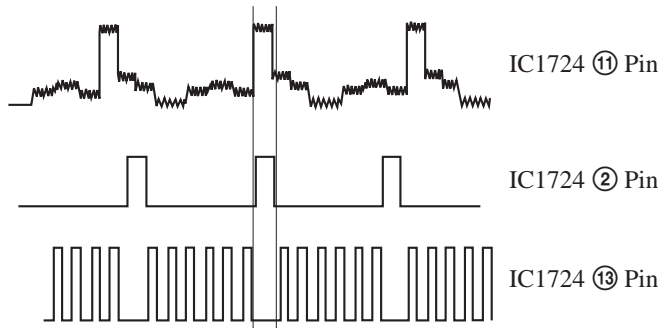
<Final Adjustment>

Shift to Fine adjustment mode with the [9] key on the remote control and just as when aligning with Green, first adjust the horizontal and vertical lines passing through the center point and then align with green after setting in vortex mode.

[BLUE REGISTRATION ADJUSTMENT]

<BLUE ADJUSTMENT>

1. The offset (or compensation) pulse for the H (horizontal retrace period) was removed in order to reduce distortion in the corners of the screen. So adjust for this as described next before adjusting Blue the same as was just done for Red.



Select "HBLW" with the [1] and [4] keys on the remote control and adjust so that the pulse width of pin ② of IC1724 misses about one pulse of pin ⑬ of IC1724 as shown above. Next, while monitoring the waveform on pin ⑪ of IC1724, change the value of "HBLW" from 0 to 255 and find the portion where the waveform peak on pin ⑪ of IC1724 is at a maximum.

Then adjust the "HBLD" value so that the waveform on pin ⑬ of IC1724 is removed at that (maximum) portion.

- A fixed value is normally provided for this adjustment so aligning with this fixed value will allow making the above adjustment.
HBLW : 23
HBLD : 184

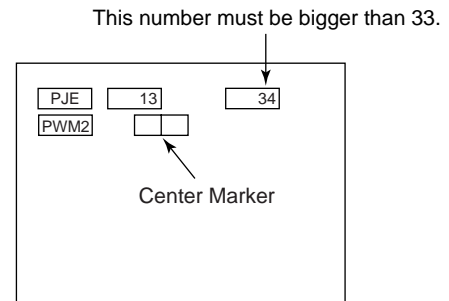
2. From hereon, make the Blue adjustment just as was previously done for Red.

<Final Check>

1. After each of the Green, Red and Blue adjustments are complete, check that all the colors are displayed on the screen.
2. If the colors are off, set Fine Adjustment mode with the [9] key on the remote control and adjust the point that is deviating.
3. Store the new adjustment (offset) value on the remote control by pressing [MUTING] and [ENTER].
4. Press the AUTO FOCUS button on the front panel. (The Offset value is now automatically stored.)
5. Now cancel the test mode and return to the normal screen. Press the AUTO FOCUS button and check that no error message appears. If an error message appears, once again select test mode and recheck.

3-11. AUTO REGISTRATION OFF SET ADJUSTMENT

1. Receive the monoscope signal.
2. Enter " PJE SERVICE MODE " .
3. Confirm " OSDH " is " 32 " . If necessary, adjust " OSDH " to obtain " 32 " .
4. Adjust " PWM2 " to obtain that Center Marker is on the center line of " MONOSCOPE " .
5. Receive the crosshatch signal.
6. Confirm that registration level is within spec. Press " AUTO FOCUS " button.
7. After finishing, quit service mode and confirm registration level is back to original condition.



3-12. AUTO REGISTRATION ERROR CODE LIST (PJED3.07)

[ERROR CODE LIST]

ERROR CODE	DISCRIPTION	NOTE
00	No Error	
10	Sensor Output Level Low	* Check wiring, beam position, sensor.
20	Sensor Output Level High	* Check OP-amp circuit.
30	Adjustment Loop Counter Overflow	0 : " CENT V " 1 : " CENT H " 2 : " SKEW V " 3 : " SKEW H "
40	Regi Data Overflow	Same as Loop Counter Overflow
50	Regi Data Overflow	Same as Loop Counter Overflow
60	Offset Overflow	Same as Loop Counter Overflow * Check beam position. If need, adjust " PWM2 " for H error, " V CENT (main) for V error. * " PWM2 " is usually 34 or 36.
70	Offset Overdraw	Same as Counter Overflow * Check beam position. If need, adjust " PWM2 " for H error, " V CENT (main) for V error.
80	Green " V SKEW " too tilt	* Adjust Green beam right or left sensopr, or Green DY tilt.

* 60, 70 or 80 appears only in Service Mode.

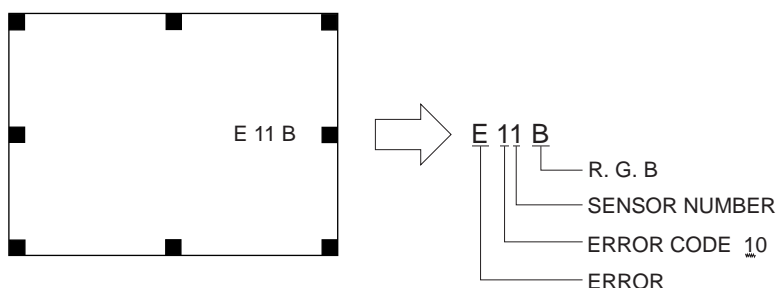
* In case of multiple error, last error is displayed.

(EXAMPLE)

11B : Left sensor Blue level low. (Left sensor circuit may be faulty.)

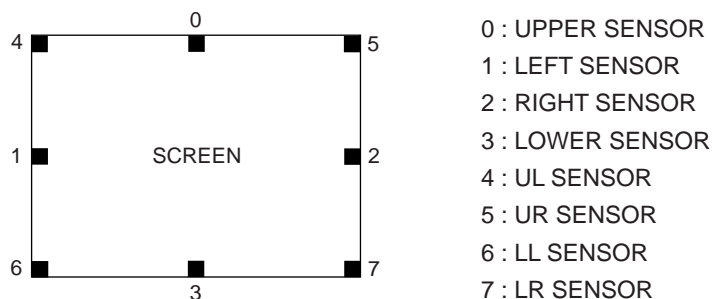
61R : " RED CENT H " offset overflow. (" PWM2 " may be required adjusting.)

• ERROR CODE SCREEN DISPLAY



* Error code will be displayed on center of screen for 3 seconds.

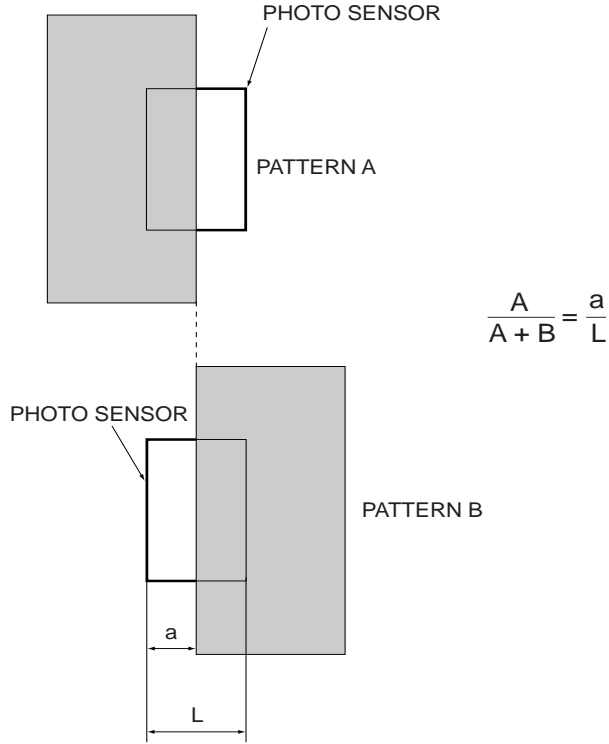
[SENSOR POSITION]



3-13. AUTO REGISTRATION SYSTEM MOVEMENT

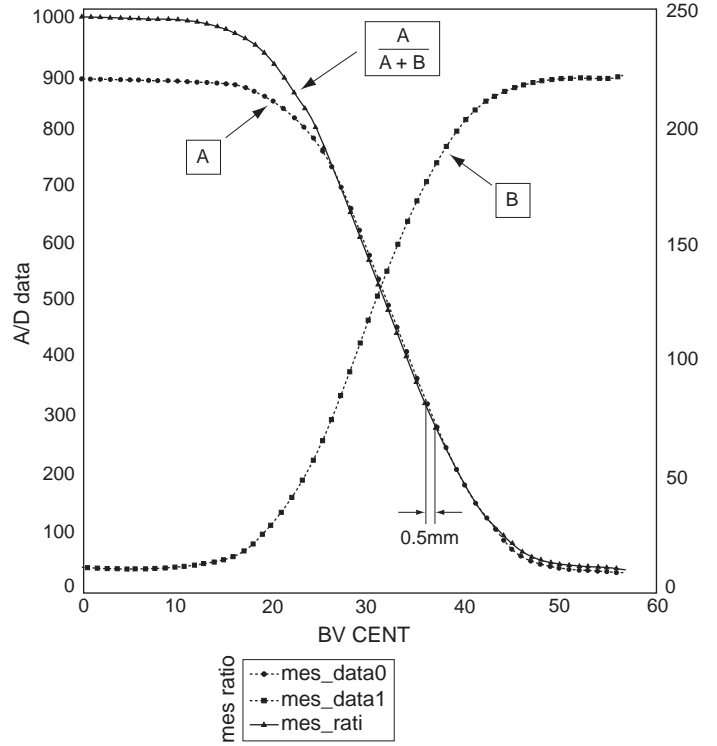
[OVER VIEW]

1. MEASUREMENT PRINCIPAL

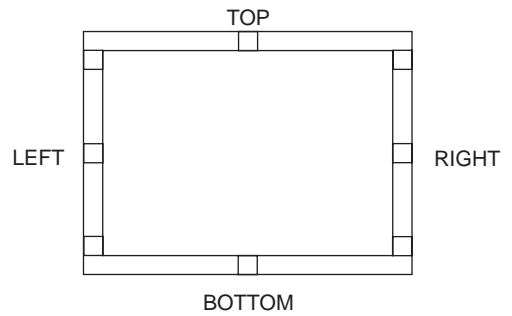


$$\text{Resolution} = \frac{10\text{mm}}{256 \text{ (8bit)}} = 40 \mu$$

2. PARAMETER CALCULATION



3. FORMULAS



H CENT = TOP + BOTTOM

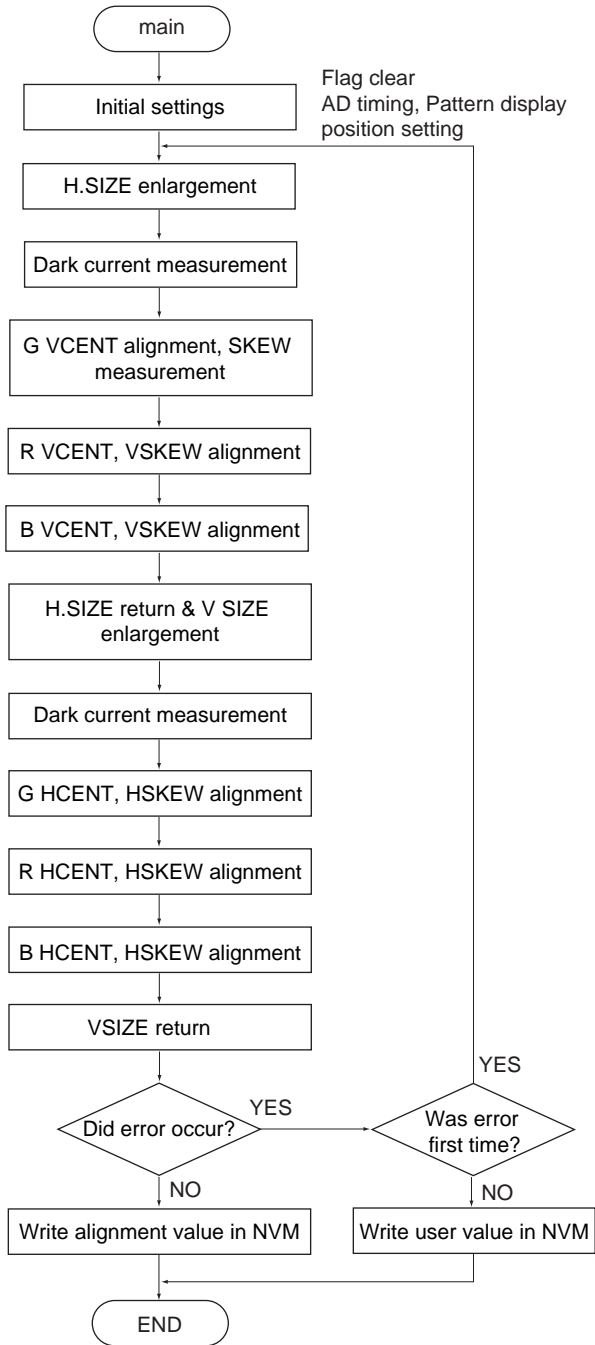
H SKEW = TOP - BOTTOM

V CENT = RIGHT + LEFT

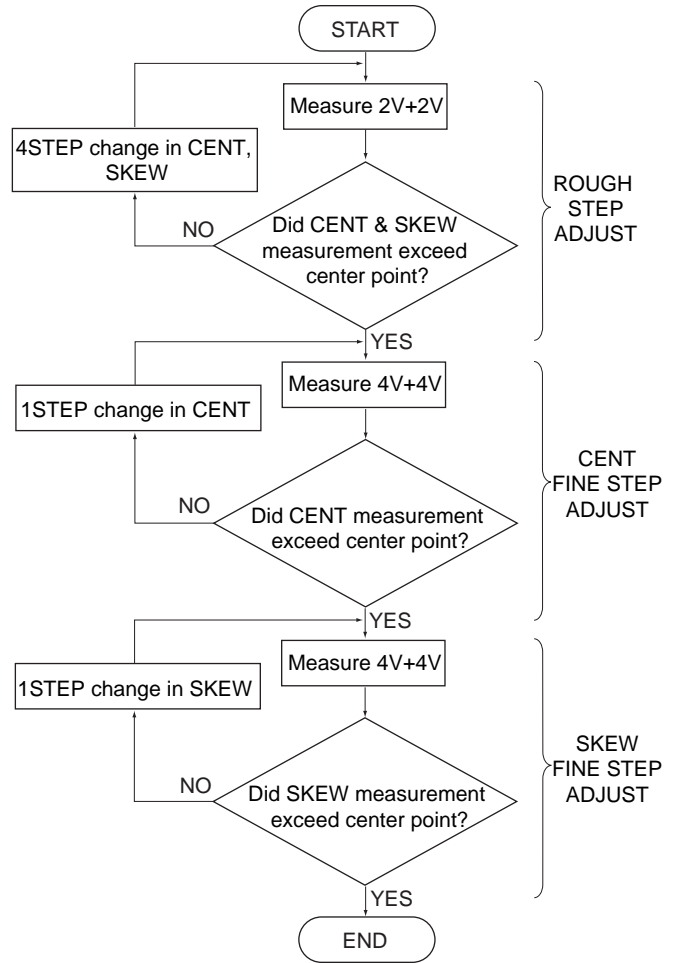
V SKEW = RIGHT - LEFT

$$\left[\begin{array}{l} \text{H LIN} = \text{RIGHT} + \text{LEFT} - (\text{TOP} + \text{BOTTOM}) \\ \text{H SIZE} = \text{RIGHT} - \text{LEFT} \end{array} \right]$$

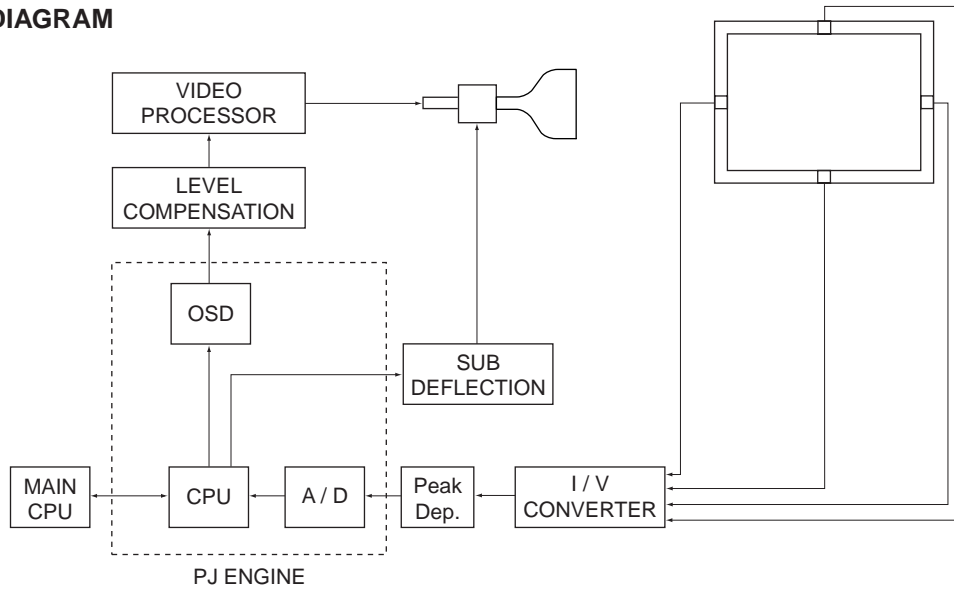
4. MAIN FLOWCHART (PJED)



5. CENT, SKEW ADJUSTMENT

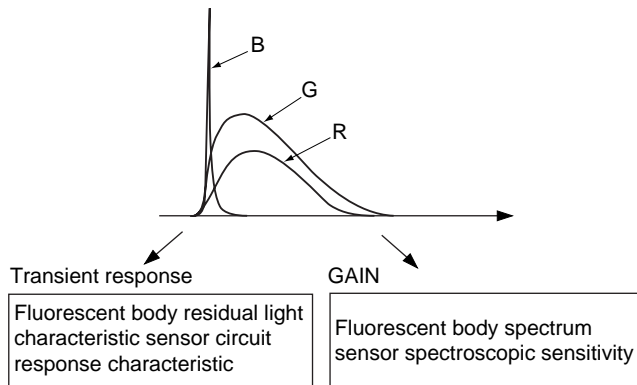


6. BLOCK DIAGRAM



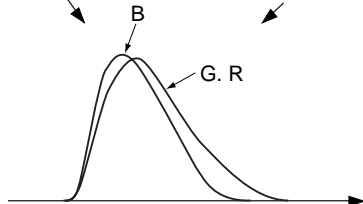
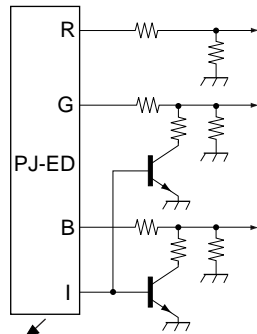
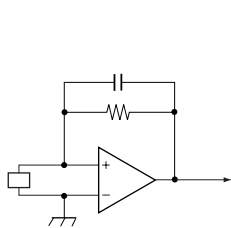
[OFFSET PROCESSING]

1. SENSITIVITY OFFSET FOR COLOR (HARDWARE)



Transient characteristic offset

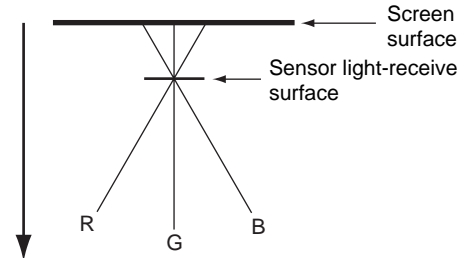
Color sensitivity offset



2. SOFTWARE OFFSET

1) Offset (compensation)

- Error due to sensor and screen surface distance



Adjust while in a properly aligned state
Store the difference using the alignment value as the "offset" value

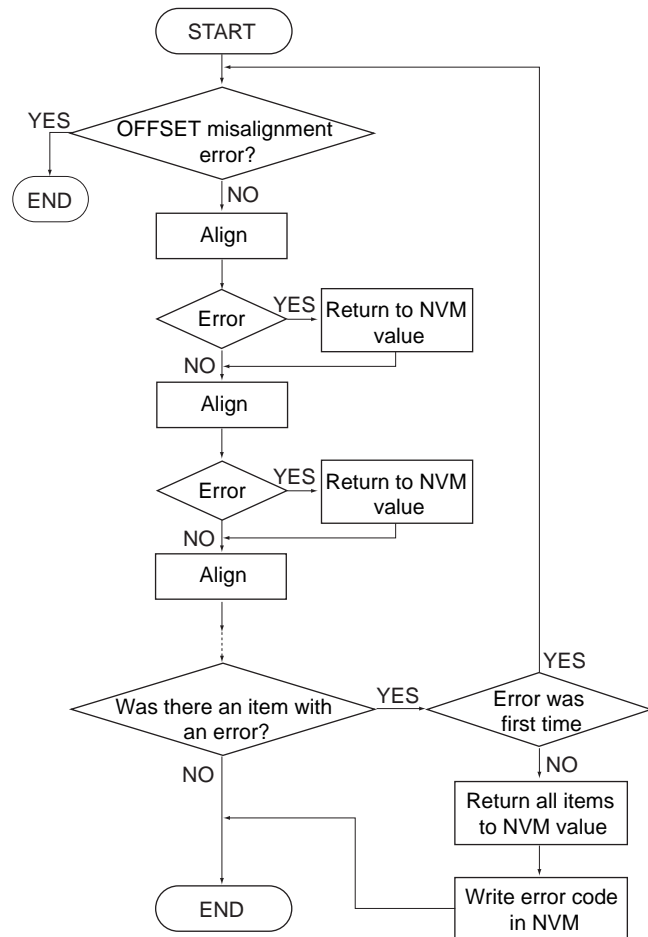
2) Dark current offset (external light)

- External light (in particular in lower sensor)
- Sensor dark current
- Circuit offset voltage, bias current

Measure the sensor output during blank periods, and calculate the difference versus the pattern measurement value.

[PROBLEM PROCESSING]

1. ERROR PROCESSING

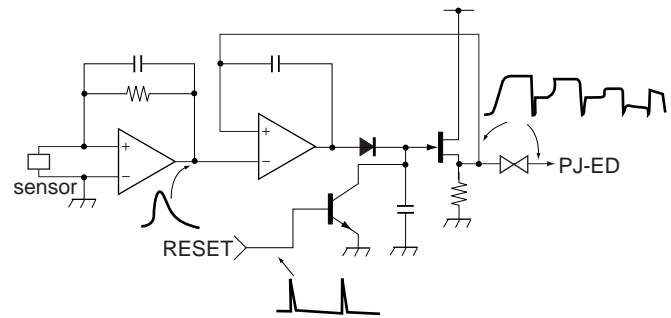


< Stopping Operation >

Press any key during alignment to stop processing and return data to the NVM value.

[TROUBLESHOOTING]

< Circuit >



< Error cause >

Sensor level LOW error

- Circuit defect
- Light not striking sensor
- External light too strong
- Black in portions

Loop count transient error

- REGI circuit defect
- Same as Sensor level LOW error

Alignment value overflow, overdraw

- Initial value is too large (small)
- Offset value is too large (small)

SECTION 4

SAFETY RELATED ADJUSTMENTS

[D BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with \blacksquare on the schematic diagram always check HV regulation, and if necessary re-adjust.

- \blacksquare : R8194, R8202
- \blacksquare : C8064, C8066, C8070, C8074, C8076, C8082, D8042, IC8002, IC8007, IC8008, Q8022, R8093, R8095, R8096, R8105, R8108, R8112, R8113, R8114, R8115, R8126, R8128, R8136, R8138, R8139, R8154, R8157, R8168, R8173, R8174, R8177, R8178, R8195, R8196, R8201, T8002 (LOT), T8003 (FBT), HV BLOCK

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Connect a 33k Ω variable resistor, set to maximum value, across CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of $31.0 \pm 0.5\text{kV}$ dc when the raster disappears.

HV HOLD-DOWN ADJUSTMENT

1. REPART STEPS ① ~ ⑤ as above.
2. Just at the point hold-down circuit begins to operate switch off the set.
3. Remove the VR connected across CN8008, and measure it's resistance.
4. Solder a resistor value, nearest to the measured value, across CN8008.
5. Reconfirm operation check.

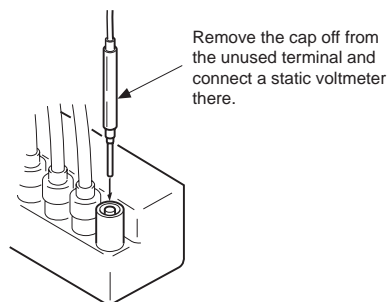


Fig. 4-1

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with \blacksquare on the schematic diagram always check hold-down voltage and if necessary re-adjust.

- \blacksquare : R8196, R8201
- \blacksquare : D8026, D8032, D8035, D8050, IC8006, IC8009, IC8010, Q8021, Q8031, R8092, R8094, R8097, R8109, R8110, R8117, R8118, R8121, R8123, R8125, R8129, R8135, R8140, R8155, R8190, R8191, R8192, R8193, R8194, R8198, R8202, T8002 (LOT), T8003 (FBT), HV BLOCK, D BOARD

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive dot signal pattern.
4. Check that the HV static voltmeter is reading $34.0 \pm 0.5\text{V}$ dc.

HV Regulation ADJUSTMENT

1. Repeat step ① as above.
2. Connect 33k Ω variable resistor, set to maximum value, to CN8008.
3. Power on the set.
4. Receive dot signal pattern.
5. Gradually lower the value of the variable resistor until the static voltmeter is reading $34.0 \pm 0.5\text{ kVdc}$.
6. Switch off the swt.
7. Remove the VR connected across CN8008, and measure its value.
8. Solder a resistor value, nearest to the measured value, across CN8008.
9. Reconfirm operation check.

4-3. +B OVP CONFIRMATION

1. Connect a voltmeter to TP. OVP and ground.
2. Supply 120VAC to variable autotransformer.
3. Power on the Set.
4. Supply 150VDC to TP. OVP.
5. Check the OVP operate.

SECTION 5 CIRCUIT ADJUSTMENTS

[MCD MODE]

5-1. TV INPUT SUB CONTRAST ADJUSTMENT (MCD1-SCON)

1. Receive the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD1-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

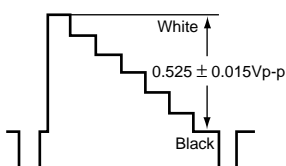


Fig. 5-1

5-3. P & P SUB CONTRAST ADJUSTMENT (MCD2-SCON)

1. Receive the signal.
TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. Set to P & P mode, set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “ MCD2-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

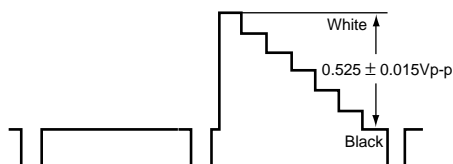


Fig. 5-3

5-2. VIDEO INPUT SUB CONTRAST ADJUSTMENT (MCD3-SCON)

1. VIDEO 1 input the color-bar signal.
2. Set to service mode.
3. Connect an oscilloscope between pin ② of CN511 (A board) and ground.
4. Select “ MCD3-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

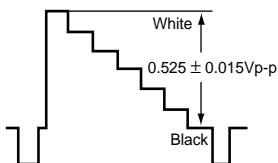


Fig. 5-2

5-4. P & P SUB CONTRAST ADJUSTMENT (MCD4-SCON)

1. Receive the signal.
TV terminal (sub) : no signal
VIDEO terminal (main) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “ MCD4-SCON ”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

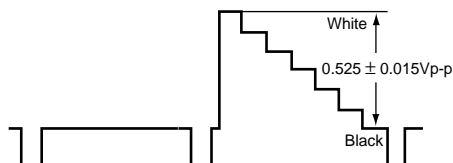


Fig. 5-4

5-5. SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD1-SHUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 1-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

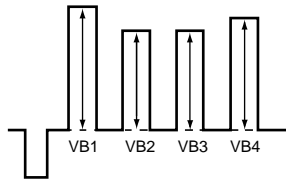


Fig. 5-5

5-6. VIDEO INPUT SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD3-SHUE, SCOL)

1. VIDEO input the color-bar signal.
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 3-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

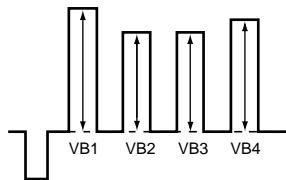


Fig. 5-6

5-7. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD2-SHUE, SCOL)

1. Receive the signal.
TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 2-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

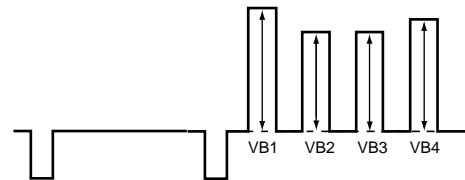


Fig. 5-7

5-8. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (MCD4-SHUE, SCOL)

1. Receive the signal.
TV terminal (main) : no signal
VIDEO terminal (sub) : color-bar signal
2. PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
SERVICE DATA MCP1-SBRT : 25
MCP1-SHUE : 7
MCP1-SCOL : 7
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “ MCD 4-SHUE, SCOL ”, and adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

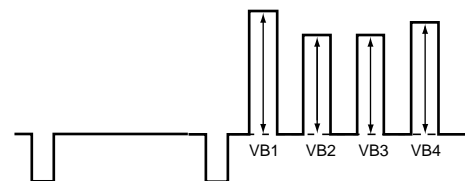


Fig. 5-8

[SCD MODE]

5-9. P & P SUB CONTRAST ADJUSTMENT (SCD1-SCON)

1. Receive the signal.
 TV terminal (sub) : color-bar signal
 VIDEO terminal (main) : no signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “SCD1-SCON”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

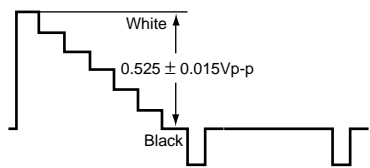


Fig. 5-9

5-10. P & P SUB CONTRAST ADJUSTMENT (SCD2-SCON)

1. Receive the signal.
 TV terminal (main) : no signal
 VIDEO terminal (sub) : color-bar signal
2. Set to P & P mode, and set to service mode.
3. Connect an oscilloscope between pin ⑳ of CN513 (A board) and ground.
4. Select “SCD2-SCON”, and adjust so that the wave from level is $0.525 \pm 0.015V_{p-p}$.
5. Write the data into memory.

MUTING → **ENTER**

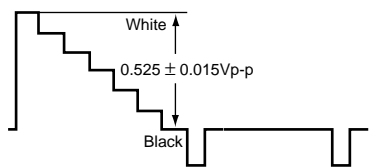


Fig. 5-10

5-11. SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD1-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD1-SHUE, SCOL”, and adjust them to have $VB1 = VB4$ and $VB2 = VB3$ in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

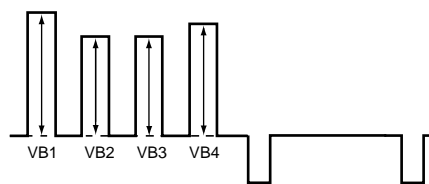


Fig. 5-11

5-12. SUB-HUE AND SUB-COLOR ADJUSTMENT (SCD2-HUE, SCOL)

1. Receive the color-bar signal.
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
 SERVICE DATA MCP1-SBRT : 25
 MCP1-SHUE : 7
 MCP1-SCOL : 7
3. Set to service mode.
4. Connect an oscilloscope between pin ⑤ of CN503 (A board) connector and ground.
5. Select “SCD2-HUE, SCOL”, and adjust them to have $VB1 = VB4$ and $VB2 = VB3$ in the waveform levels.
6. Write the data into memory.

MUTING → **ENTER**

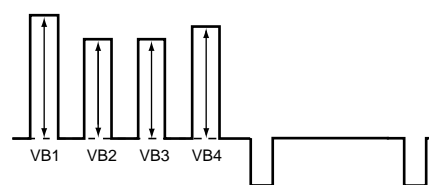


Fig. 5-12

[MCD MODE]

5-13. SUB CONTRAST ADJUSTMENT (MCD1-SCON)

1. Receive the color-bar signal.
2. PICTURE : maximum
COLOR : minimum
BRIGHTNESS : center
TRINITONE : medium
3. Set to service mode.
4. Connect an oscilloscope between pin ③ of CN503 (A board) and ground.
5. Select “ MCD1-SCON ”, and adjust so that the wave from level is $1.85 \pm 0.03V_{p-p}$.
6. Write the data into memory.

MUTING → ENTER

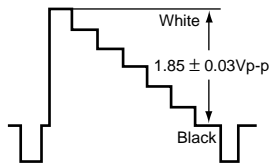


Fig. 5-13

5-14. DISPLAY POSITION ADJUSTMENT (OSD-HPOS)

1. Receive the monoscope signal.
2. Set to Service mode.
3. Select “ OSD-HPOS ”, and adjust so that the left edge of MENU is as shown to the spec.
4. Write the data into memory.

MUTING → ENTER

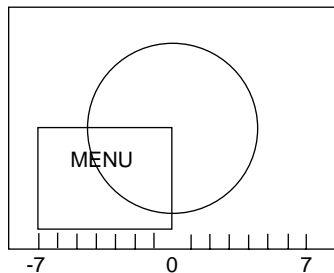


Fig. 5-14

5-15. CAPTION VISION POSITION ADJUSTMENT (MCCD-CCDH)

1. Receive signal with CAPTION VISION data.
2. Set to Service mode.
3. Display TEXT BOX.
4. Select “ MCCD-CCDH ”, and adjust data so that $A=B$.
5. Write the data into memory.

MUTING → ENTER

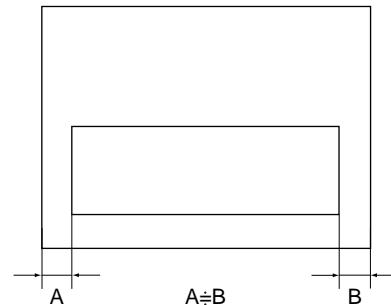
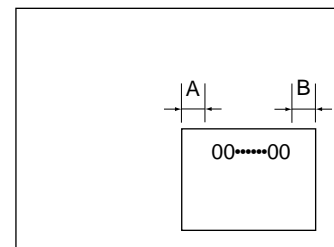


Fig. 5-15

5-16. MID DISPLAY POSITION ADJUSTMENT (MID-HPOS)

1. Display 1/9 size PIP.
2. Set to Service mode.
3. Select “ MID-HPOS ”, and adjust data so that $A=B$.
4. Write the data into memory.

MUTING → ENTER



A=B

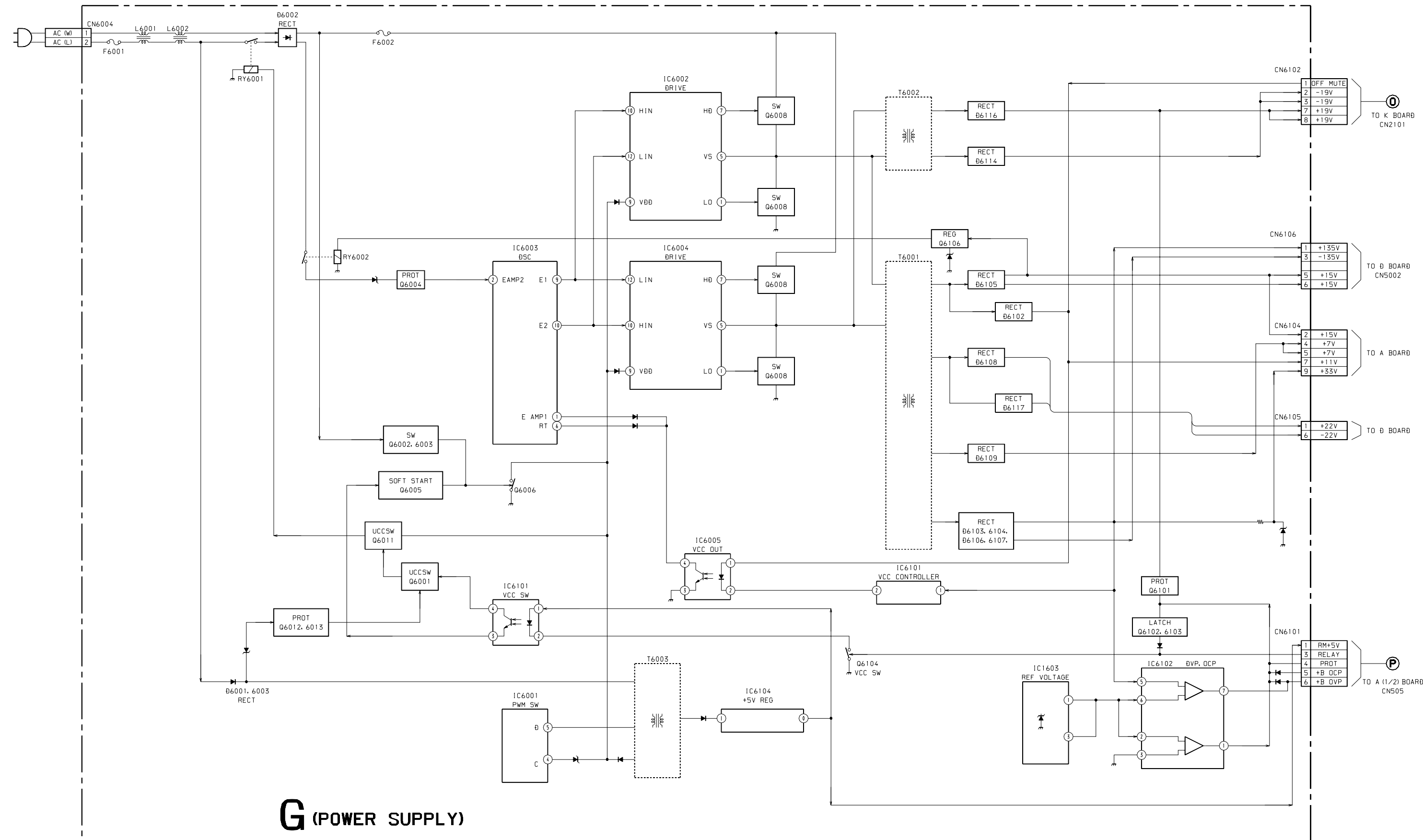
Fig. 5-16

MEMO

A series of horizontal dashed lines for writing a memo.

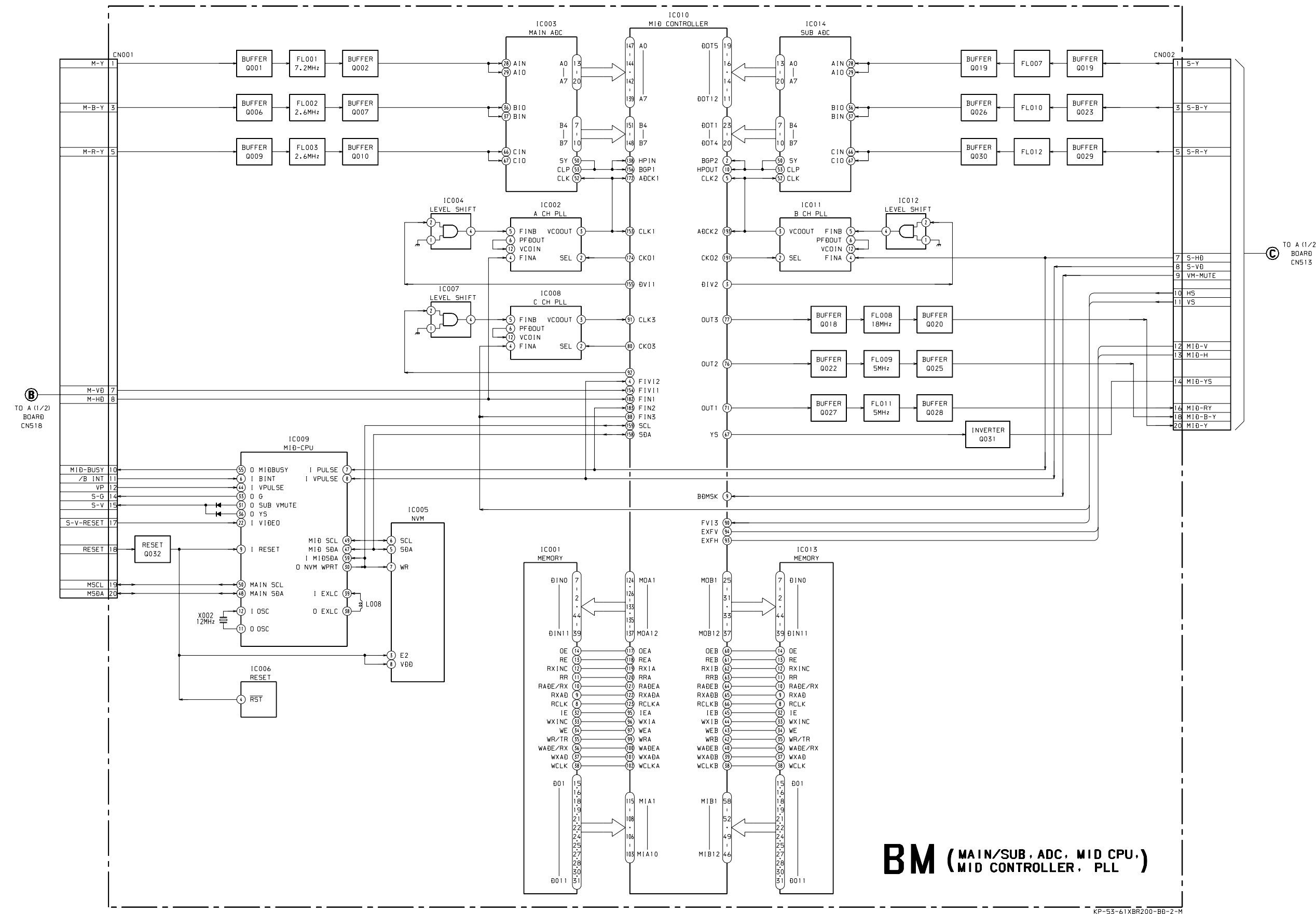
**SECTION 6
DIAGRAMS**

6-1. BLOCK DIAGRAM (1)



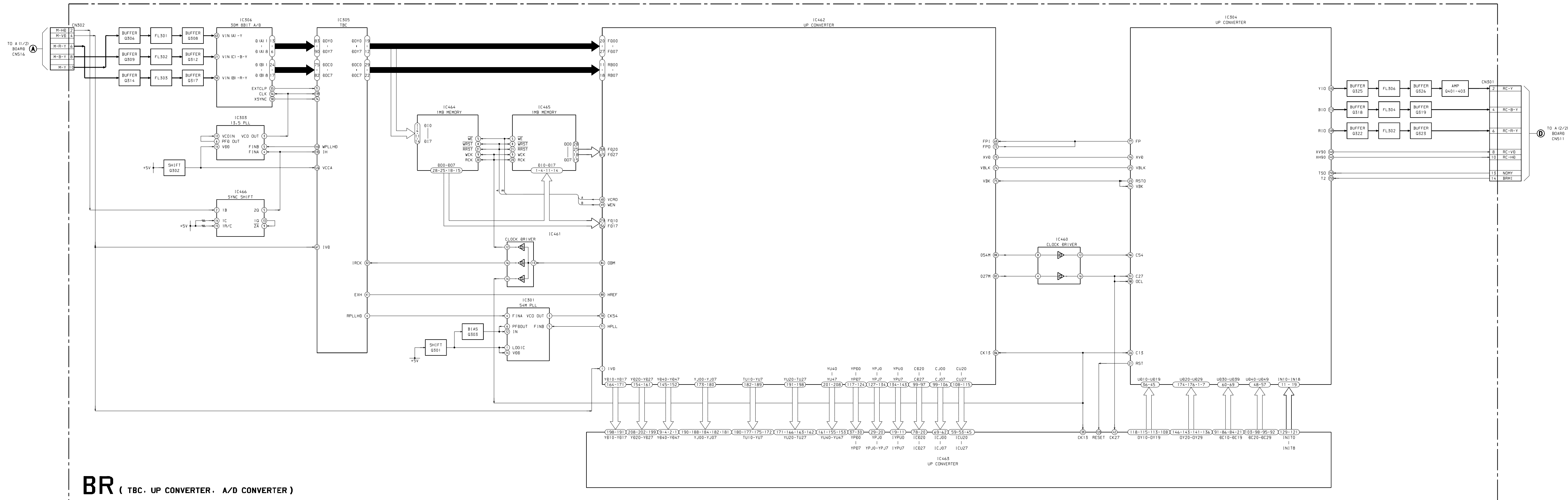
G (POWER SUPPLY)

BLOCK DIAGRAM (2)



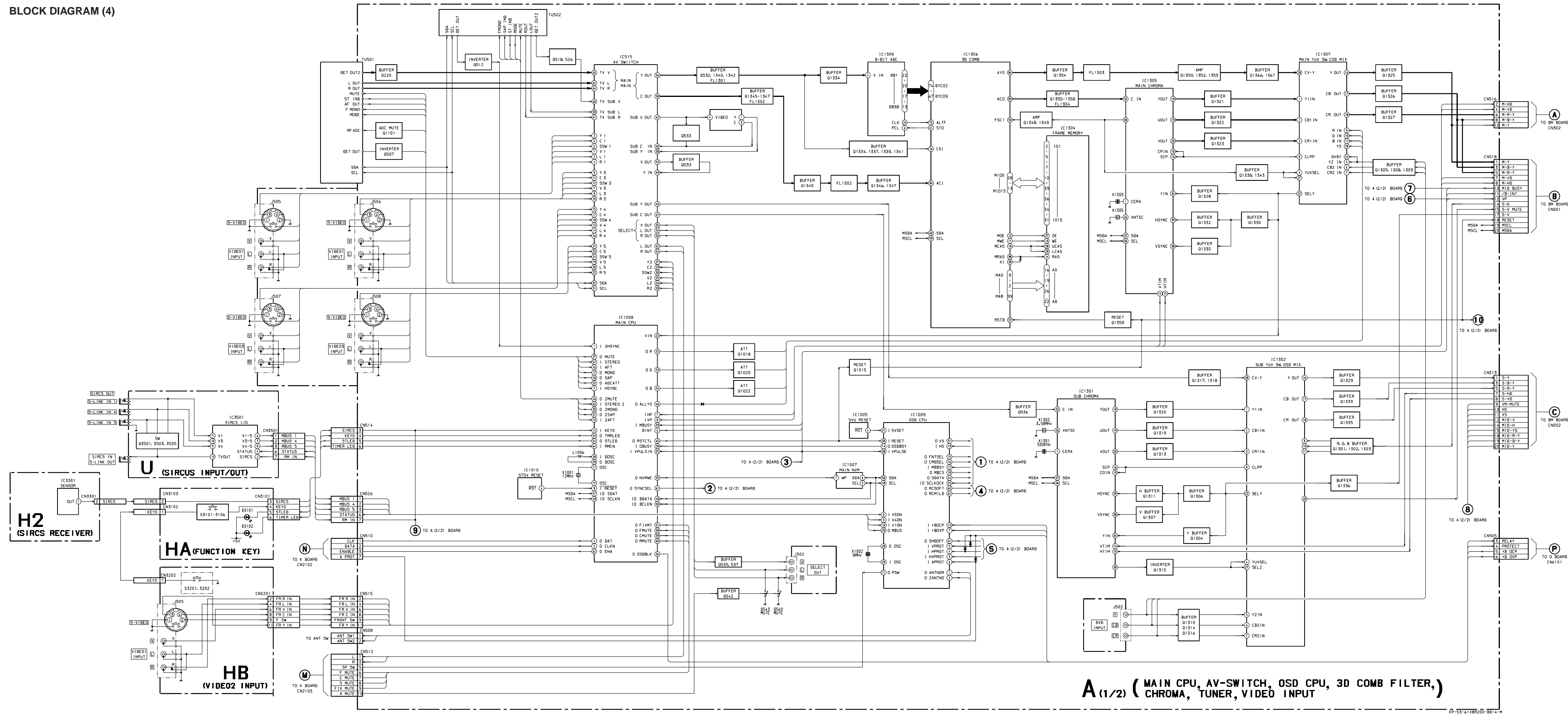
BM (MAIN/SUB, ADC, MID CPU, MID CONTROLLER, PLL)

BLOCK DIAGRAM (3)



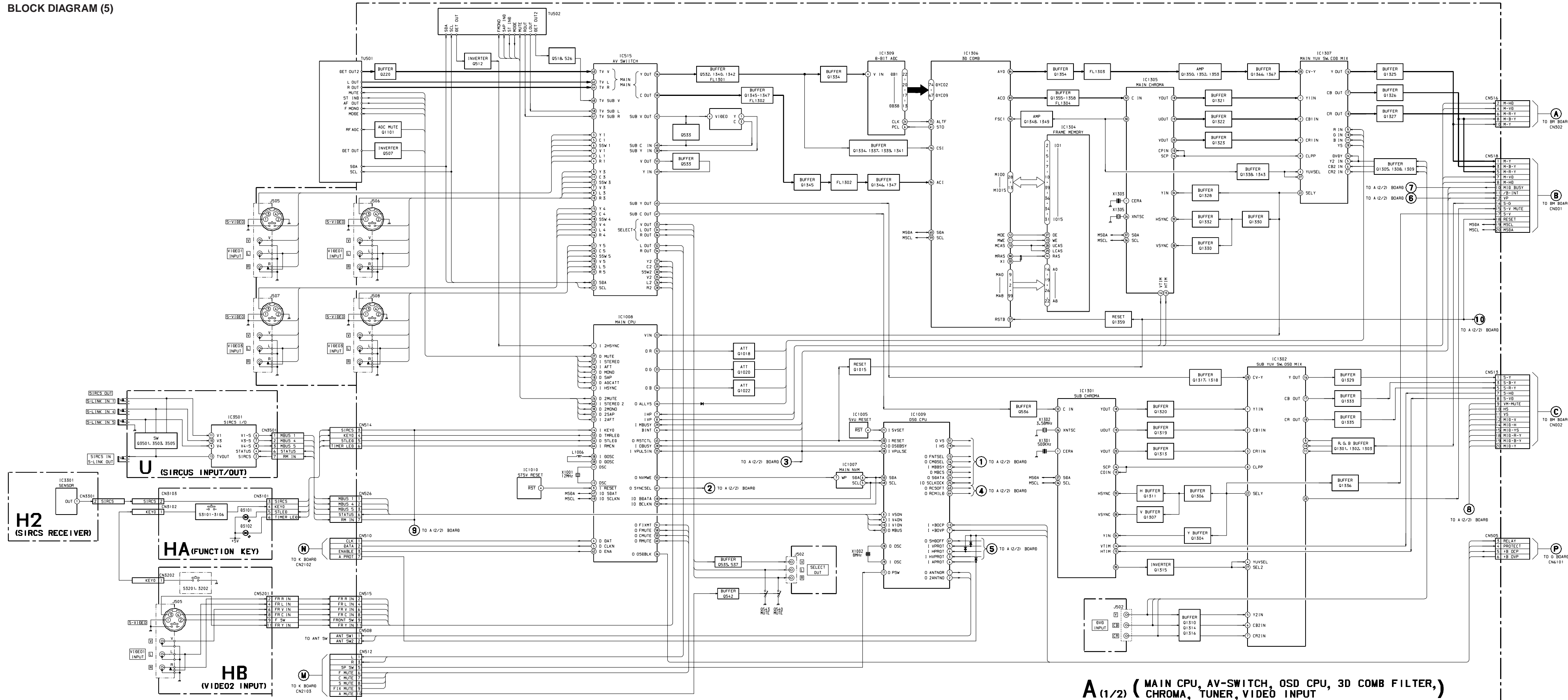
BR (TBC, UP CONVERTER, A/D CONVERTER)

BLOCK DIAGRAM (4)



A (1/2) (MAIN CPU, AV-SWITCH, OSD CPU, 3D COMB FILTER, CHROMA, TUNER, VIDEO INPUT)

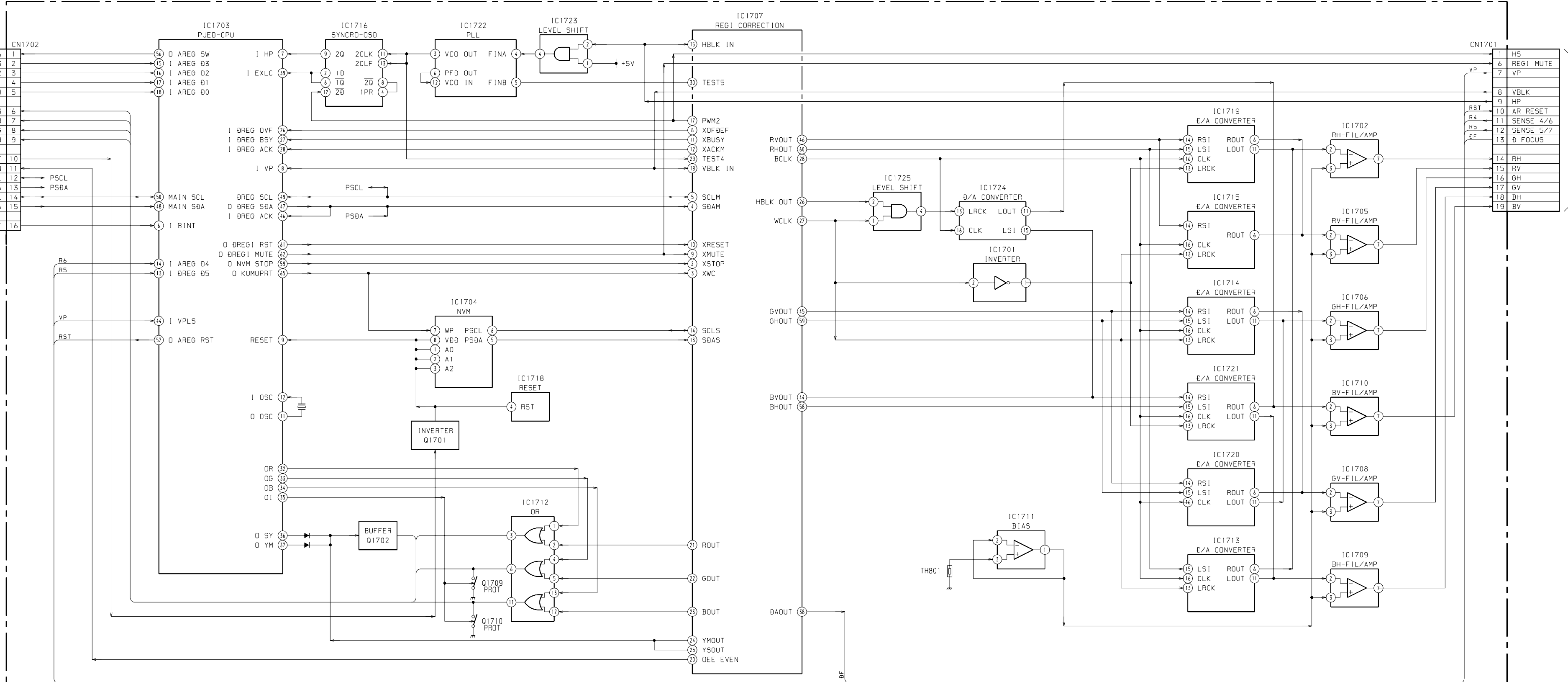
BLOCK DIAGRAM (5)



A (1/2) (MAIN CPU, AV-SWITCH, OSD CPU, 3D COMB FILTER, CHROMA, TUNER, VIDEO INPUT

BLOCK DIAGRAM (6)

E
TO A (2/2) BOARD
CN522

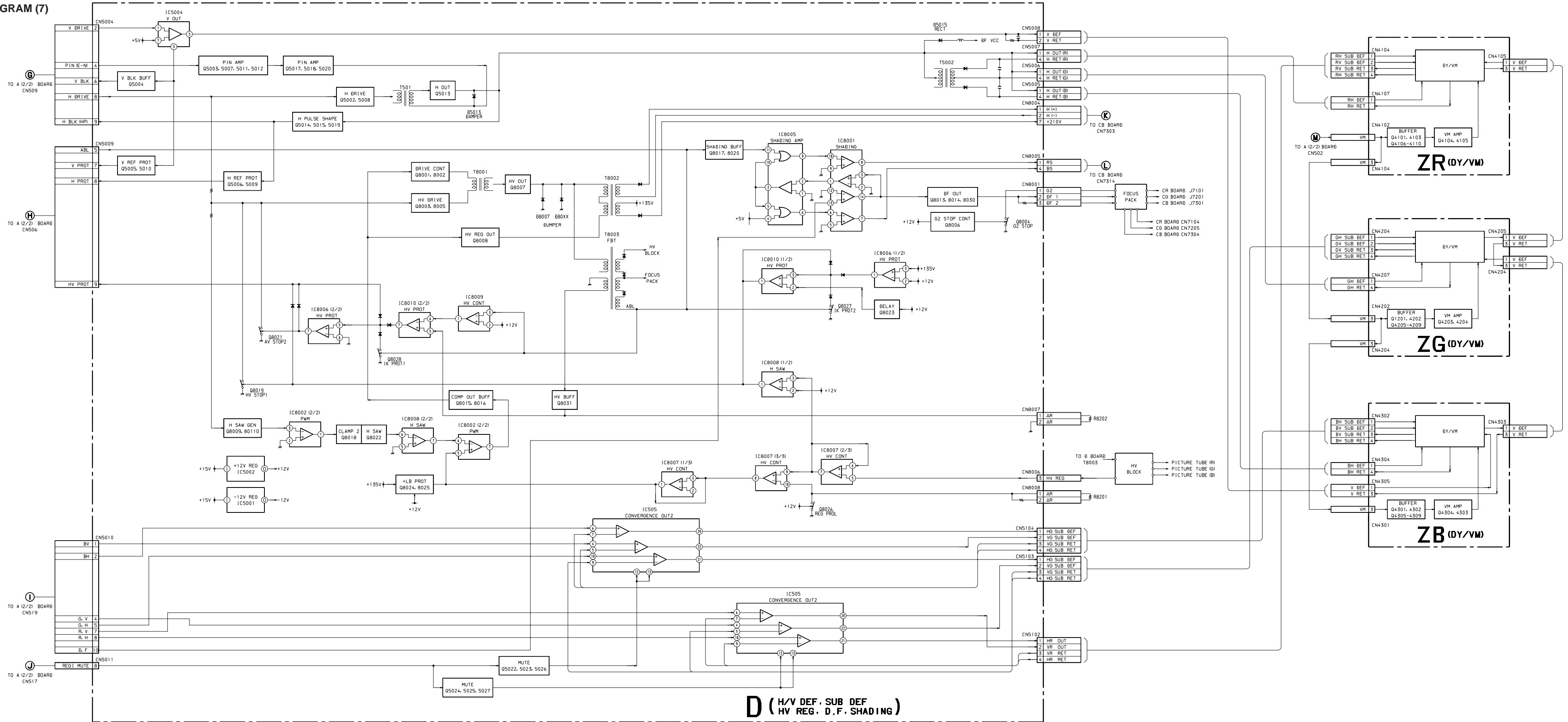


F
TO A (2/2) BOARD
CN523

BD (PJED-CPU, REGI CORRECTION, D/A CONVERTER)

KP-53-61XBR200-B0-6-M

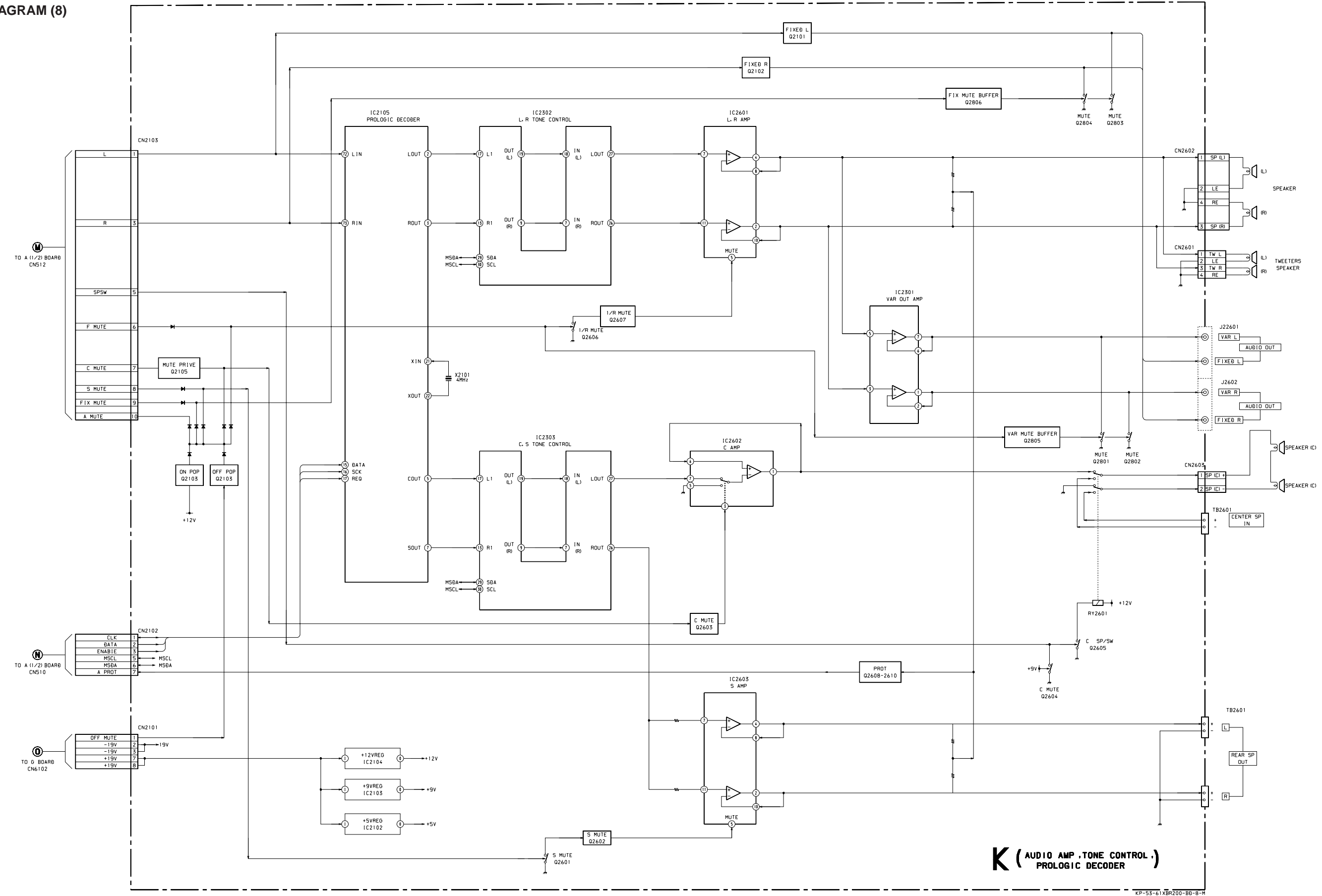
BLOCK DIAGRAM (7)

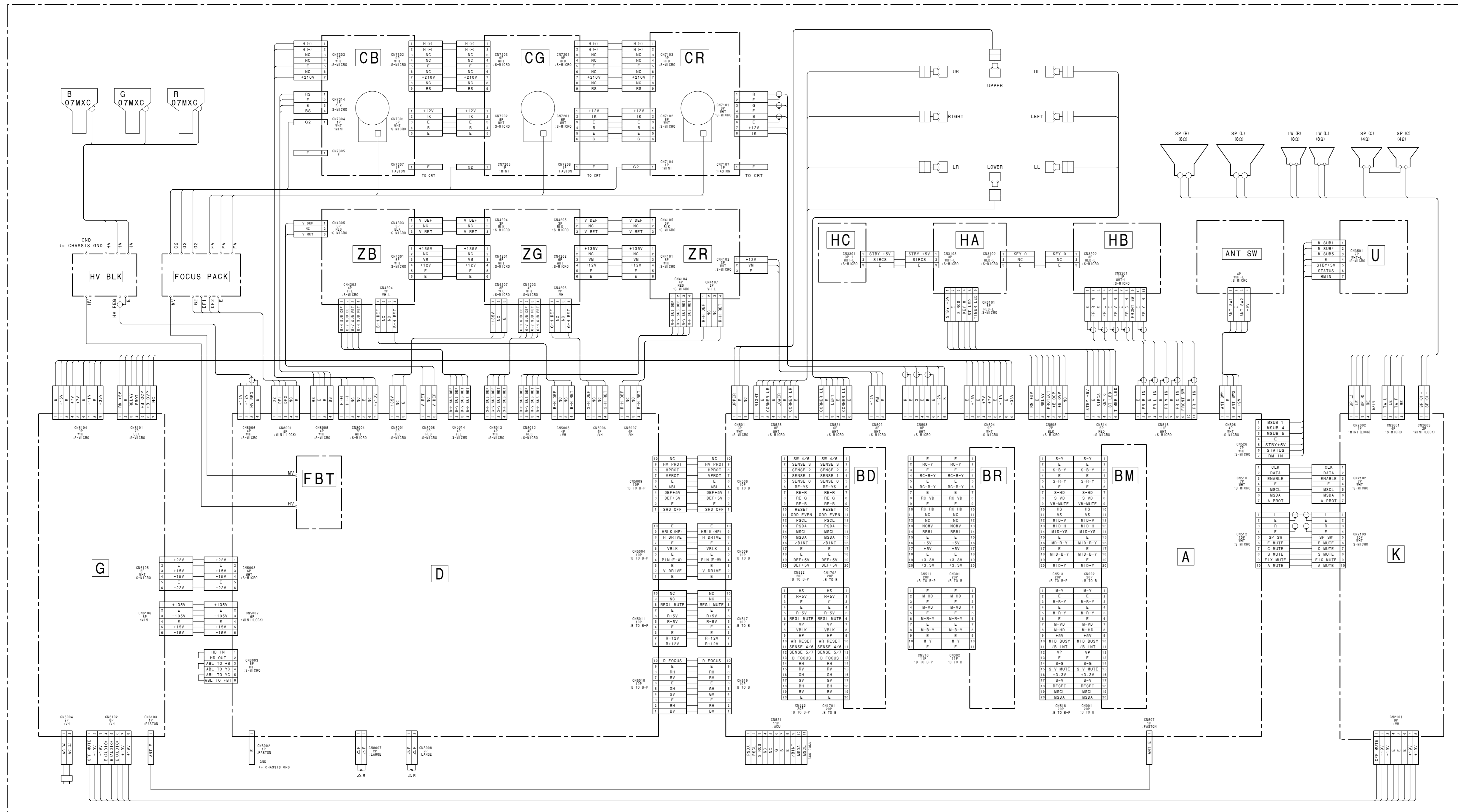


D (H/V DEF. SUB DEF HV REG. D.F. SHADING)

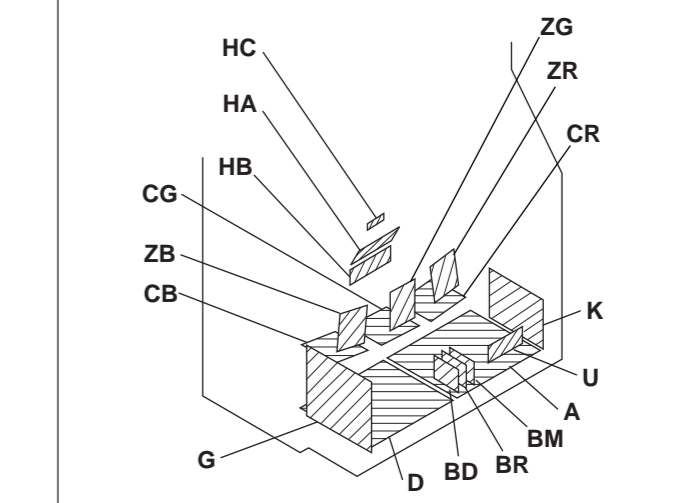
KP-55-61XR200-BB-7-M

BLOCK DIAGRAM (8)





6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- Note:
- Capacitors without voltage indication are all 50V.
 - All resistors are in ohms.
 - k=1000Ω, M=1000kΩ
 - Indication of resistance, which does not have one for rating electrical power, is as follows:
 - Pitch: 5mm
 - Rating electrical power: 1/4W
 - ⚡: nonflammable resistor.
 - ⚡: fusible resistor.
 - △: internal component.
 - : panel designation and adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - ⊕: earth-chassis.
- The components identified by **K** 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 **K**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **K** and repeat the adjustment until the specified value is achieved.
- (Refer to R8194, R8196, R8201 and R8202 adjustment on Page 58.)
- When replacing the part in below table, be sure to perform the related adjustment.

Terminal name of semiconductors in silk screen printed circuit (※)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Cathode	
⑨ Diode		Common Anode Cathode	
⑩ Diode		Common Anode Cathode	
⑪ Diode		Common Anode Cathode	
⑫ Diode		Common Anode Cathode	
⑬ Transistor (FET)		Drain Gate Source	
⑭ Transistor (FET)		Drain Gate Source	

⊖ Discrete semiconductor

(Chip semiconductors that are not actually used are included.)

- Reference information
- RM METAL FILM
 - RC SOLID
 - FRD NONFLAMMABLE CARBON
 - FUSE NONFLAMMABLE FUSIBLE
 - RW NONFLAMMABLE WIREWOUND
 - RS NONFLAMMABLE METAL OXIDE
 - RB NONFLAMMABLE CEMENT
 - ⊗ ADJUSTMENT RESISTOR
 - LF-L MICRO INDUCTOR
 - TA TANTALUM
 - PS STYROL
 - PP POLYPROPYLENE
 - PT MYLAR
 - MPS METALIZED POLYESTER
 - MPP METALIZED POLYPROPYLENE
 - ALB BIPOLAR
 - ALT HIGH TEMPERATURE
 - ALR HIGH RIPPLE

Note: The symbol **K** display is on the component side.

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

The symbol **K** indicate fast operating fuse. Replace only with fuse of same rating as marked.

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.

Le symbole **K** indique une fusible à action rapide. Doit être remplacé par une fusible de même valeur, comme maque.

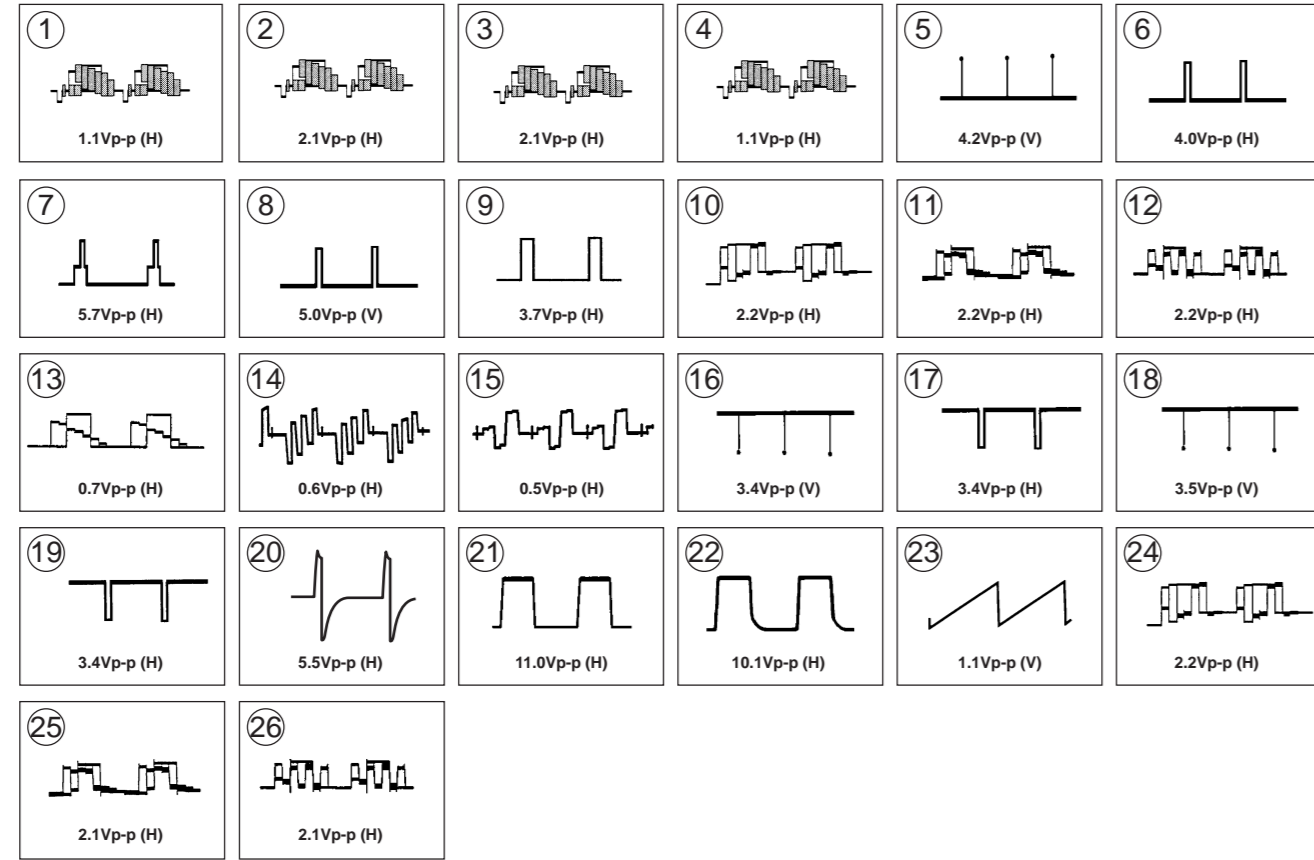
Part replaced (⚡) Adjustment (K)

Part	Adjustment
C8064, C8066, C8070, C8074, C8076, C8082, D8042, IC8002, IC8007, IC8008, Q8022, R8053, R8095, R8096, R8105, R8108, R8112, R8113, R8114, R8115, R8126, R8128, R8136, R8138, R8139, R8154, R8157, R8168, R8173, R8174, R8177, R8178, R8195, R8196, R8201, T8002 (LOT), T8003 (FBT), HV BLOCK	HV Regulator (R8194, R8202)
D8026, D8032, D8035, D8050, IC8006, IC8009, IC8010, Q8021, Q8031, R8092, R8094, R8097, R8109, R8110, R8117, R8118, R8121, R8123, R8125, R8129, R8135, R8140, R8155, R8198, R8191, R8192, R8193, R8194, R8198, R8202, T8002 (LOT), T8003 (FBT) HV BLOCK, D BOARD	HV HOLD-DOWN (R8196, R8201)

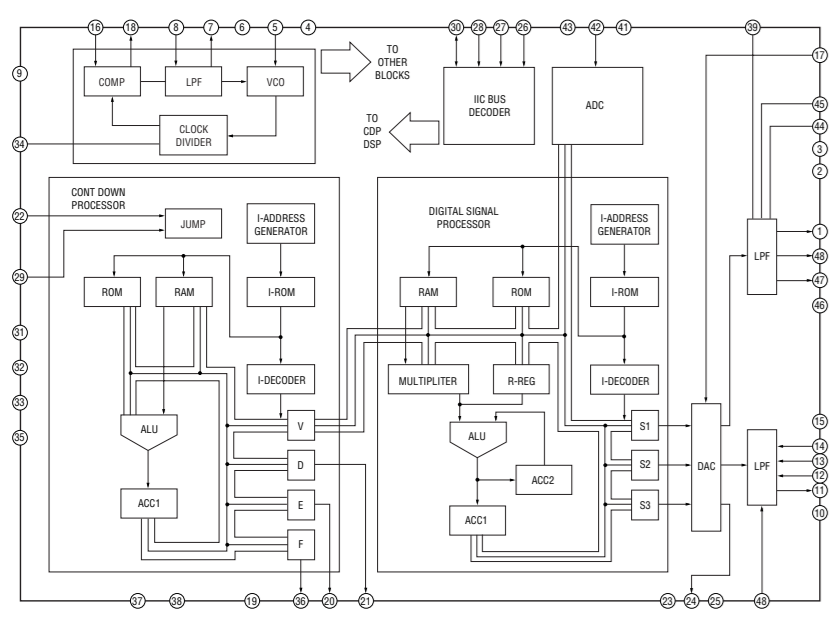
As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- ⊖: Measurement impossibility.
- ⊙: Circled numbers are waveform references.
- : B+ bus.
- - - : B- bus.
- : signal path (RF)

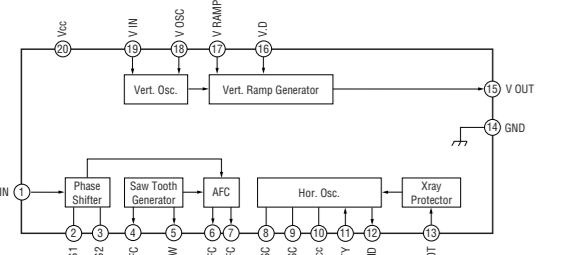
• A (1/4) BOARD WAVEFORMS



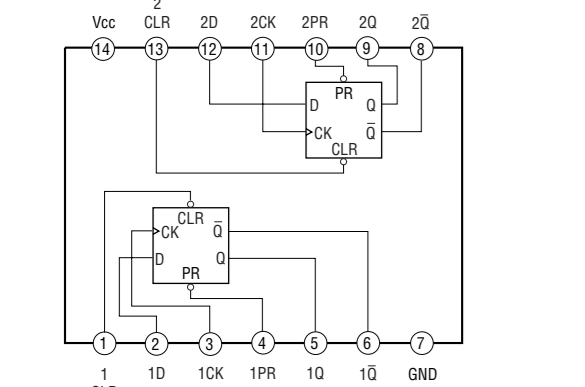
A (1/4) BOARD : IC512 CXD2018Q



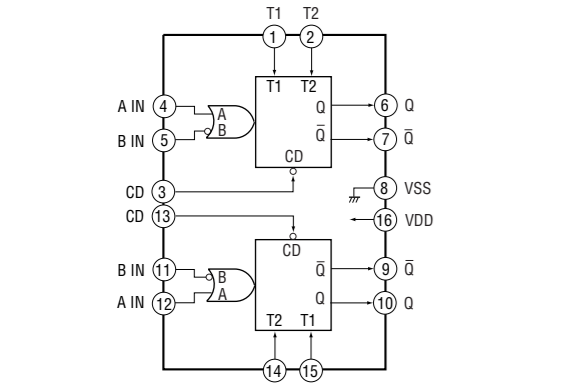
A (1/4) BOARD : IC507 LA7856



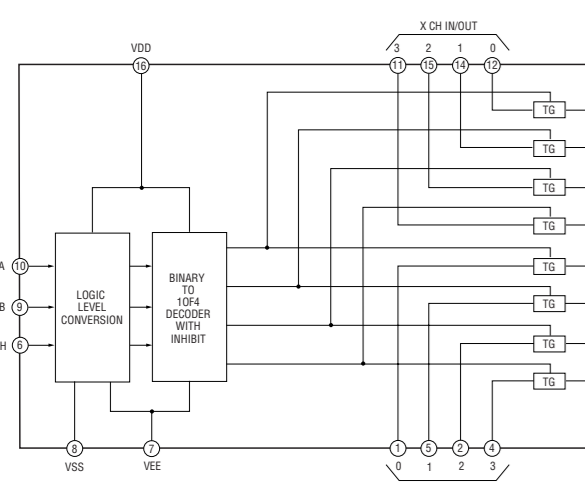
A (1/4) BOARD : IC508 MC74HC74FEL



A (1/4) BOARD : IC517 TC74HC4538AF-TP2

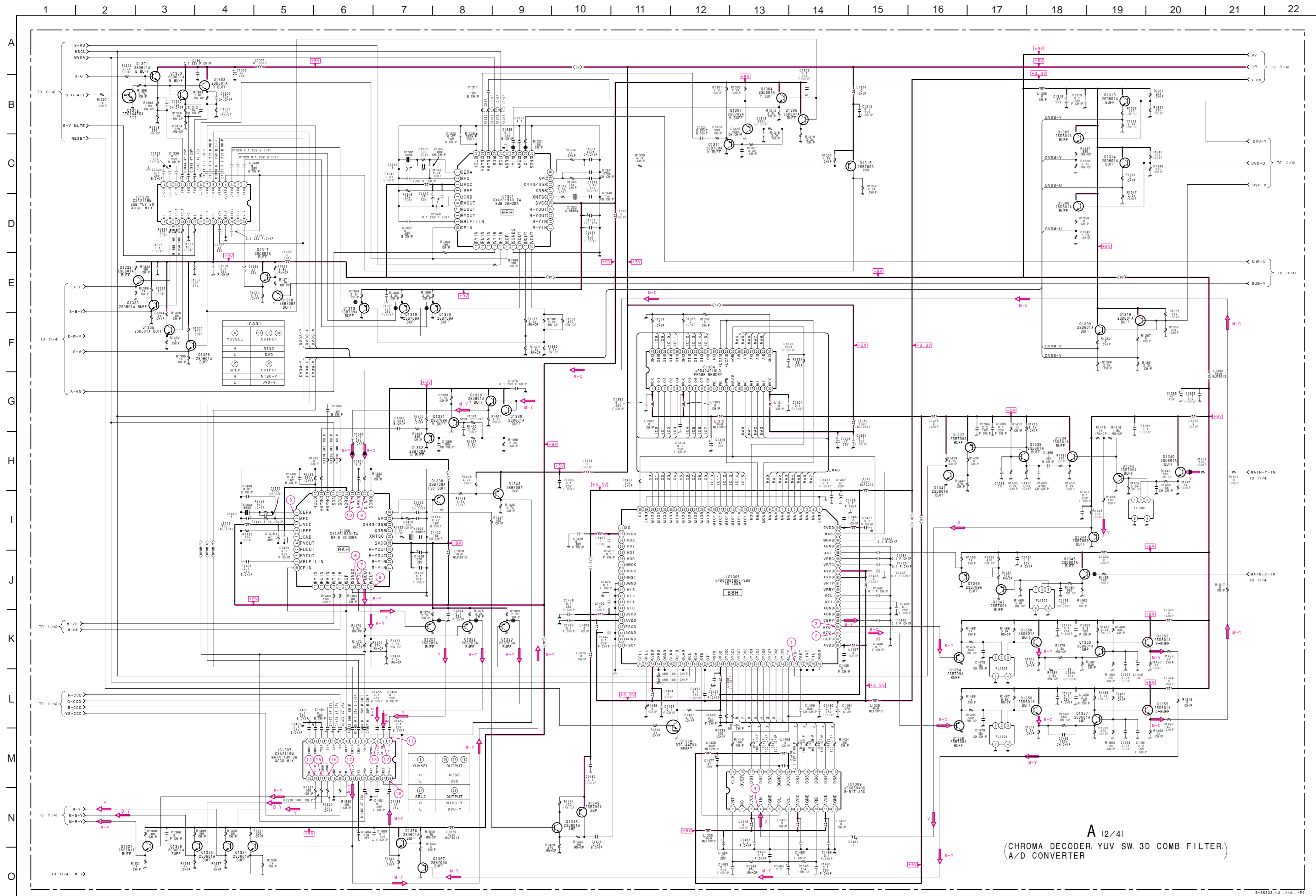


A (1/4) BOARD : IC509 MC74HC4052EL



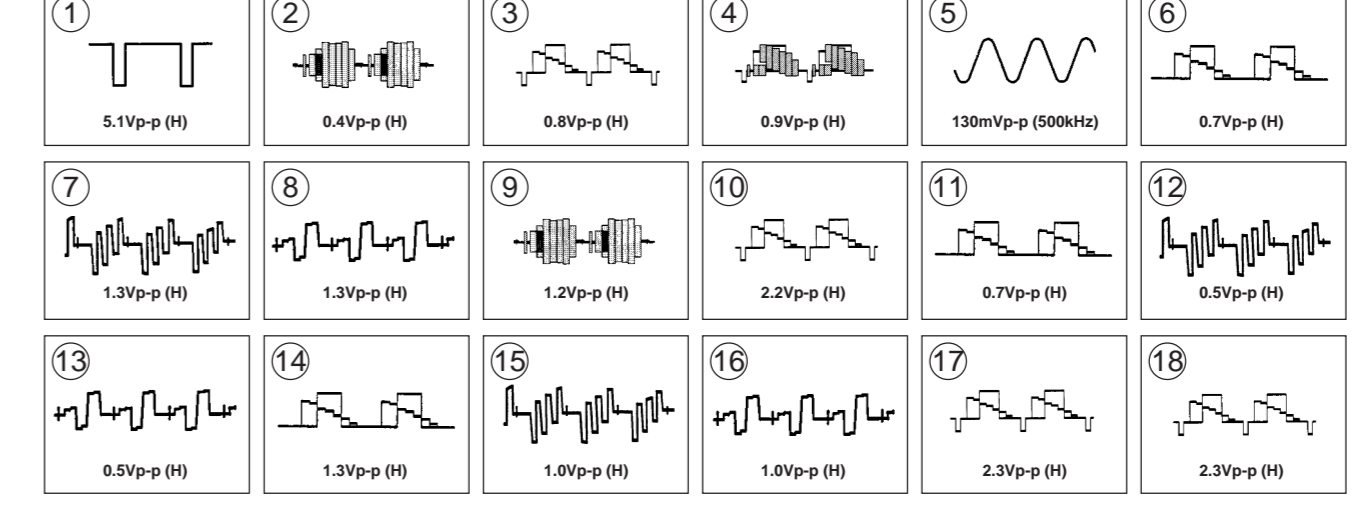
A (1/4) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC501	1	14.6	IC501	3	3.4	IC501	53	4.8	IC501	31	5.0
	2	3.3		4	GND		32	5.0		32	GND
	3	3.3		5	GND		54	4.1		33	5.0
	4	GND		6	5.5		55	3.7		35	3.9
	5	GND		7	5.5		56	3.5		36	4.0
	6	5.0		8	GND		57	3.5		38	GND
	7	GND		9	0.1		58	4.4		41	5.0
	8	GND		10	GND		59	5.1		43	GND
	9	0.1		11	GND		60	0		44	1.5
	10	GND		12	3.1		61	3.5		45	1.5
	11	11.9		13	3.1		62	4.9		46	GND
	12	3.1		14	GND		63	4.9		47	1.7
	13	GND		15	11.9		64	4.9		48	1.8
	14	GND		16	5.5		65	3.3		49	4.0
	15	11.9		17	3.1		66	3.1		50	4.0
	16	GND		18	3.1		67	4.9		51	4.0
	17	GND		19	9.1		68	4.9		52	4.0
	18	GND		20	GND		69	5.1		53	3.9
	19	GND		21	11.9		70	GND		54	4.0
	20	GND		22	5.5		71	2.6		55	4.0
	21	GND		23	3.1		72	9.0		56	4.0
	22	GND		24	3.1		73	2.5		57	GND
	23	GND		25	0		74	2.5		58	4.0
	24	GND		26	5.5		75	2.5		59	4.0
	25	GND		27	4.8		76	2.5		60	4.0
	26	GND		28	0.5		77	2.5		61	4.0
	27	GND		29	0.5		78	2.5		62	4.0
	28	GND		30	9.1		79	2.4		63	4.0
	29	GND		31	0.8		80	4.0		64	4.0
	30	GND		32	0.5		81	4.0		65	4.0
	31	GND		33	0.6		82	4.0		66	4.0
	32	GND		34	0.6		83	4.0		67	4.0
	33	GND		35	0.6		84	4.0		68	4.0
	34	GND		36	0.6		85	4.0		69	4.0
	35	GND		37	0.6		86	4.0		70	4.0
	36	GND		38	0.6		87	4.0		71	4.0
	37	GND		39	0.6		88	4.0		72	4.0
	38	GND		40	0.6		89	4.0		73	4.0
	39	GND		41	0.6		90	4.0		74	4.0
	40	GND		42	0.6		91	4.0		75	4.0
	41	GND		43	0.6		92	4.0		76	4.0
	42	GND		44	0.6		93	4.0		77	4.0
	43	GND		45	0.6		94	4.0		78	4.0
	44	GND		46	0.6		95	4.0		79	4.0
	45	GND		47	0.6		96	4.0		80	4.0
	46	GND		48	0.6		97	4.0		81	4.0
	47	GND		49	0.6		98	4.0		82	4.0
	48	GND		50	0.6		99	4.0		83	4.0
	49	GND		51	0.6		100	4.0		84	4.0
	50	GND		52	0.6		101	4.0		85	4.0
	51	GND		53	0.6		102	4.0		86	4.0
	52	GND		54	0.6		103	4.0		87	4.0
	53	GND		55	0.6		104	4.0		88	4.0
	54	GND		56	0.6		105	4.0		89	4.0
	55	GND		57	0.6		106	4.0		90	4.0
	56	GND		58	0.6		107	4.0		91	4.0
	57	GND		59	0.6		108	4.0		92	4.0
	58	GND		60	0.6		109	4.0		93	4.0
	59	GND		61	0.6		110	4.0		94	4.0
	60	GND		62	0.6		111	4.0		95	4.0
	61	GND		63	0.6		112	4.0		96	4.0
	62	GND		64	0.6		113	4.0		97	4.0
	63	GND		65	0.6		114	4.0		98	4.0
	64	GND		66	0.6		115	4.0		99	4.0
	65	GND		67	0.6		116	4.0		100	4.0
	66	GND		68	0.6		117	4.0		101	4.0
	67	GND		69	0.6		118	4.0		102	4.0
	68	GND		70	0.6		119	4.0		103	4.0
	69	GND		71	0.6		120	4.0		104	4.0
	70	GND		72	0.6		121	4.0		105	4.0
	71	GND		73	0.6		122	4.0		106	4.0
	72	GND		74	0.6		123	4.0		107	4.0
	73	GND		75	0.6		124	4.0		108	4.0
	74	GND		76	0.6		125	4.0		109	4.0
	75	GND		77	0.6		126	4.0		110	4.0
	76	GND		78	0.6		127	4.0		111	4.0
	77	GND		79	0.6		128	4.0		112	4.0
	78	GND		80	0.6		129	4.0		113	4.0
	79	GND		81	0.6		130	4.0		114	4.0
	80	GND		82	0.6		131	4.0		115	4.0
	81	GND		83	0.6		132	4.0		116	4.0
	82	GND		84	0.6		133	4.0		117	4.0
	83	GND		85	0.6		134	4.0		118	4.0
	84	GND		86	0.6		135	4.0		119	4.0
	85	GND		87	0.6		136	4.0		120	4.0
	86	GND		88	0.6		137	4.0		121	4.0
	87	GND		89	0.6		138	4.0		122	4.0
	88	GND		90	0.6		139	4.0		123	4.0
	89	GND		91	0.6		140	4.0		124	4.0
	90	GND		92	0.6		141	4.0		125	4.0
	91	GND		93	0.6		142	4.0		126	4.0
	92	GND		94	0.6		143	4.0		127	4.0
	93	GND		95	0.6		144	4.0		128	4.0
	94	GND		96	0.6		145	4.0		129	4.0
	95	GND		97	0.6		146	4.0		130	4.0
	96	GND		98	0.6		147	4.0		131	4.0
	97	GND		99	0.6		148	4.0		132	4.0
	98	GND		100	0.6		149	4.0		133	4.0
	99	GND		101	0.6		150	4.0		134	4.0
	100	GND		102	0.6		151	4.0		135	4.0
	101	GND		103	0.6		152	4.0		136	4.0
	102	GND		104	0.6		153	4.0		137	4.0
	103	GND		105	0.6		154	4.0		138	4.0
	104	GND		106	0.6		155	4.0		139	4.0
	105	GND		107	0.6		156	4.0		140	4.0
	106	GND		108	0.6		157	4.0		141	4.0
	107	GND		109	0.6		158	4.0		142	4.0
	108	GND		110	0.6		159	4.0		143	4.0
	109	GND		111	0.6		160	4.0		144	4.0
	110	GND		112	0.6		161	4.0		145	4.0
	111	GND		113	0.6		162	4.0		146	4.0
	112	GND		114	0.6		163	4.0		147	4.0
	113	GND		115	0.6		164	4.0		148	4.0
	114	GND		116	0.6		165	4.0		149	4.0
	115	GND		117	0.6		166	4.0		150	4.0
	116	GND		118	0.6		167	4.0		151	4.0
	117	GND		119	0.6		168	4.0		152	4.0
	118	GND		120	0.6		169	4.0		153	4.0
	119	GND		121	0.6		170	4.0		154	4.0
	120	GND		122	0.6		171	4.0		155	4.0
	121	GND		123	0.6		172				



A (2/4)
 (CHROMA DECODER, YUV SW, 3D COMB FILTER,
 A/D CONVERTER)

• A (2/4) BOARD WAVEFORMS



A (2/4) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
IC1301	1	2.4	IC1304	1	5.0	IC1306	1	GND	IC1309	1	4.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	2	4.2		3	3.3		4	0		5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																																																																
	3	3.3		4	0		5	GND		6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303		1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0		IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																																																										
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	6	0.1		7	0		8	0		9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303					1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0					IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																																								
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	8	0		9	0.1		10	0.7		11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303							1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0							IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																												
	9	0.1		10	0.7		11	0.3		12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303								1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0								IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																						
	10	0.7		11	0.3		12	0.3		13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303									1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0									IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2	4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																																
	11	0.3		12	0.3		13	0.7		14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303										1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0										IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																																										
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	13	0.7		14	0.7		15	0.7		16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303												1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0												IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307	1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																														
	14	0.7		15	0.7		16	0.7		17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303													1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0													IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23		0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																								
	15	0.7		16	0.7		17	GND		18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303														1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0														IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3	4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9		22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																																		
	16	0.7		17	GND		18	3.2		19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303															1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0															IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2	4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																												
	17	GND		18	3.2		19	2.9		20	0	21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																						
	18	3.2		19	2.9		20	0		21	2.9	22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																	IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																																
	19	2.9		20	0		21	2.9		22	0	23	0	24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9		0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																		1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																		IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0			24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																										
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	21	2.9		22	0		23	0		24	0	IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																				1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																				IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0	5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9			22	0			23	0			24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14			0.7	15	0.7			16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4	0		5	GND	6		0.1		7	0	8		0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0														
	22	0		23	0		24	0		IC1302	1		2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7		11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																					1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																					IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7		15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3	4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0			21	2.9			22	0			23	0			24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3			13	0.7	14			0.7	15	0.7			16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2	4.2		3	3.3	4		0		5	GND	6		0.1		7	0	8		0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0								
	23	0		24	0		IC1302	1			2.4		2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7		11		0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																						1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																						IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14		0.7		15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2	3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9			20	0			21	2.9			22	0			23	0			24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11			0.3	12	0.3			13	0.7	14			0.7	15	0.7			16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0	IC1307		1	2.4	2		4.2		3	3.3	4		0		5	GND	6		0.1		7	0	8		0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0		
	24	0		IC1302	1			2.4			2		4.2		3		3.3		4		0		5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7		11		0.3		12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303																							1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																							IC1304	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7		14		0.7		15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0	IC1305	1	2.4	2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2			19	2.9			20	0			21	2.9			22	0			23	0			24	0	IC1306		1	2.4	2		4.2	3	3.3		4	0	5		GND	6	0.1		7	0	8		0	9	0.1			10	0.7	11			0.3	12	0.3			13	0.7	14			0.7	15	0.7			16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0		IC1307		1	2.4	2		4.2		3	3.3	4		0		5	GND	6		0.1		7	0	8		0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0	IC1308	1	2.4	2		4.2	3	3.3	4	0		5	GND	6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0
IC1302	1	2.4	2		4.2	3		3.3	4		0		5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4	2	4.2																								3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4	2																								4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0		IC1305		1		2.4		2	4.2	3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9			20	0			21	2.9			22	0			23	0			24	0			IC1306	1			2.4	2	4.2		3	3.3	4		0	5	GND		6	0.1	7		0	8	0		9	0.1	10			0.7	11	0.3			12	0.3	13			0.7	14	0.7			15	0.7	16			0.7	17	GND			18	3.2	19			2.9	20	0			21	2.9	22			0	23	0			24	0	IC1307				1	2.4	2		4.2		3	3.3	4		0		5	GND	6		0.1		7	0	8		0		9	0.1	10		0.7		11	0.3	12		0.3		13	0.7	14		0.7		15	0.7	16		0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0		IC1308	1	2.4		2	4.2	3	3.3	4		0	5	GND	6	0.1		7	0	8	0	9		0.1	10	0.7	11	0.3		12	0.3	13	0.7	14		0.7	15	0.7	16	0.7		17	GND	18	3.2	19		2.9	20	0	21	2.9		22	0	23	0	24		0	IC1309	1	2.4	2	4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9
	2	4.2	3		3.3	4		0	5		GND		6		0.1		7		0		8		0		9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2	3	3.3																							4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2	3	3.3																							4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND		18		3.2		19		2.9		20		0		21		2.9		22		0		23		0		24		0		IC1305		1		2.4		2				4.2		3		3.3	4	0	5	GND	6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0	23			0	24			0	IC1306			1	2.4			2	4.2				3			3.3	4	0		5	GND	6		0.1	7	0		8	0	9		0.1	10	0.7		11	0.3	12		0.3	13	0.7	14			0.7	15	0.7			16	0.7	17			GND	18	3.2			19	2.9	20			0	21	2.9			22	0	23			0	24	0			IC1307	1	2.4			2	4.2		3			3.3	4	0		5		GND	6	0.1		7		0	8	0		9		0.1	10	0.7		11		0.3	12	0.3		13		0.7	14	0.7		15		0.7	16	0.7		17		GND	18	3.2		19		2.9	20	0		21		2.9	22	0		23		0	24	0		IC1308		1	2.4	2		4.2			3	3.3		4	0	5	GND	6		0.1	7	0	8	0		9	0.1	10	0.7	11		0.3	12	0.3	13	0.7		14	0.7	15	0.7	16		0.7	17	GND	18	3.2		19	2.9	20	0	21		2.9	22	0	23	0		24	0	IC1309	1	2.4		2		4.2	3	3.3	4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23
	3	3.3	4		0	5		GND	6		0.1		7		0		8		0		9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15		0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3	4	0																						5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3	4	0	5																						GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20		0		21		2.9		22		0		23		0		24		0		IC1305		1		2.4		2				4.2		3		3.3				4		0		5	GND	6	0.1	7	0	8	0	9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306		1	2.4	2			4.2				3	3.3			4	0				5			GND	6	0.1		7	0	8		0	9	0.1		10	0.7	11		0.3	12	0.3		13	0.7	14		0.7	15	0.7	16		0.7	17	GND	18			3.2	19	2.9			20	0	21			2.9	22	0			23	0	24			0	IC1307	1			2.4	2	4.2				3	3.3			4	0		5			GND	6	0.1	7	0		8	0	9		0.1		10	0.7	11		0.3		12	0.3	13		0.7		14	0.7	15		0.7		16	0.7	17		GND		18	3.2	19		2.9		20	0	21		2.9		22	0	23		0		24	0	IC1308		1		2.4	2	4.2				3	3.3	4		0			5	GND		6	0.1	7	0	8		0	9	0.1	10	0.7		11	0.3	12	0.3	13		0.7	14	0.7	15	0.7		16	0.7	17	GND	18		3.2	19	2.9	20	0		21	2.9	22	0	23		0	24	0	IC1309	1		2.4	2		4.2	3		3.3		4	0	5	GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0
	4	0	5		GND	6		0.1	7		0		8		0		9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15		0.7		16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0	5	GND																					6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0	5	GND	6	0.1																					7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0		23		0		24		0		IC1305		1		2.4		2				4.2		3		3.3				4		0		5				GND		6		0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0		IC1306	1		2.4	2			4.2	3	3.3		4	0				5	GND			6	0.1				7			0	8	0		9	0.1	10		0.7	11	0.3		12	0.3	13		0.7	14	0.7		15	0.7	16		0.7	17	GND	18		3.2	19	2.9	20		0	21	2.9	22			0	23	0			24	0	IC1307			1	2.4	2			4.2		3			3.3	4	0				5	GND			6	0.1		7			0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7		14		0.7	15	0.7		16		0.7	17	GND		18		3.2	19	2.9		20		0	21	2.9		22		0	23	0		24		0	IC1308	1		2.4		2	4.2			3		3.3	4	0				5	GND	6		0.1			7	0		8	0	9	0.1	10		0.7	11	0.3	12	0.3		13	0.7	14	0.7	15		0.7	16	0.7	17	GND		18	3.2	19	2.9	20		0	21	2.9	22	0		23	0	24	0	IC1309		1	2.4	2		4.2		3	3.3		4	0		5		GND	6	0.1	7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0			
	5	GND	6		0.1	7		0	8		0		9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15		0.7		16		0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND	6	0.1																				7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND	6	0.1	7	0	8																				0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305		1		2.4		2				4.2		3		3.3				4		0		5				GND		6		0.1				7		0		8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0		IC1306	1		2.4	2			4.2		3	3.3			4	0	5		GND	6			0.1	7	0			8	0				9			0.1	10	0.7		11	0.3	12		0.3	13	0.7		14	0.7	15		0.7	16	0.7		17	GND	18		3.2	19	2.9	20		0	21	2.9	22		0	23	0	24		0	IC1307	1	2.4			2	4.2				3	3.3	4			0		5			GND	6	0.1				7	0			8	0		9			0.1	10	0.7	11	0.3		12	0.3	13	0.7	14		0.7	15	0.7	16	0.7		17	GND	18		3.2		19	2.9	20		0		21	2.9	22		0		23	0	24		0		IC1308	1	2.4		2		4.2		3		3.3		4	0			5		GND	6	0.1				7	0	8		0			9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14	0.7		15	0.7	16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0		IC1309	1	2.4	2			4.2	3	3.3		4		0	5		GND	6		0.1		7	0	8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0						
	6	0.1	7		0	8		0	9		0.1		10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15		0.7		16		0.7		17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1	7	0																			8	0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1	7	0	8	0	9	0.1																			10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3		3.3				4		0		5				GND		6		0.1				7		0		8				0		9		0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0		IC1306	1		2.4	2			4.2		3	3.3			4		0	5			GND	6	0.1		7	0			8	0	9		0.1	10	0.7				11			0.3	12	0.3		13	0.7	14		0.7	15	0.7		16	0.7	17		GND	18	3.2		19	2.9	20		0	21	2.9	22		0	23	0	24		0	IC1307	1	2.4		2		4.2	3		3.3	4	0				5	GND	6			0.1		7			0	8	0				9	0.1			10	0.7		11			0.3	12	0.3	13	0.7		14	0.7	15	0.7	16		0.7	17	GND	18	3.2		19	2.9	20	0	21		2.9	22	0		23		0	24	0		IC1308		1	2.4	2		4.2			3	3.3		4		0		5		GND		6	0.1			7		0	8	0				9	0.1	10		0.7			11	0.3		12	0.3	13	0.7	14		0.7	15	0.7	16	0.7		17	GND	18	3.2	19		2.9	20	0	21	2.9		22	0	23	0	24		0	IC1309	1	2.4	2			4.2	3	3.3			4	0	5		GND		6	0.1		7	0		8		0	9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0									
	7	0	8		0	9		0.1	10		0.7		11		0.3		12		0.3		13		0.7		14		0.7		15		0.7		16		0.7		17		GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0	8	0																		9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0	8	0	9	0.1	10	0.7	11																		0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3	4	0		5				GND		6		0.1				7		0		8				0		9		0.1				10		0.7		11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9		22	0		23	0		24	0		IC1306	1		2.4	2			4.2		3	3.3			4		0	5			GND		6	0.1			7	0	8		0	9			0.1	10	0.7		11	0.3	12		0.3		13			0.7	14	0.7		15	0.7	16		0.7	17	GND		18	3.2	19		2.9	20	0		21	2.9	22		0	23	0	24		0	IC1307	1	2.4		2		4.2	3		3.3		4	0		5	GND	6			0.1	7	0	8			0		9			0.1	10	0.7				11	0.3			12	0.3		13			0.7	14	0.7	15	0.7		16	0.7	17	GND	18		3.2	19	2.9	20	0		21	2.9	22	0	23		0	24	0	IC1308	1		2.4	2	4.2				3	3.3	4		0			5	GND		6		0.1		7		0		8	0			9		0.1	10	0.7				11	0.3	12		0.3			13	0.7		14	0.7	15	0.7	16		0.7	17	GND	18	3.2		19	2.9	20	0	21		2.9	22	0	23	0		24	0	IC1309	1	2.4		2		4.2	3	3.3			4	0	5			GND	6	0.1		7		0	8		0	9		0.1		10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0												
	8	0	9		0.1	10		0.7	11		0.3		12		0.3		13		0.7		14		0.7		15		0.7		16		0.7		17		GND		18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0	9	0.1																	10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0	9	0.1	10	0.7	11	0.3	12	0.3																	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0	5	GND	6	0.1				7		0		8				0		9		0.1				10		0.7		11				0.3		12		0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0		IC1306	1		2.4	2			4.2		3	3.3			4		0	5			GND		6	0.1			7		0	8			0	9	0.1		10	0.7			11	0.3	12		0.3	13	0.7		14		0.7		15	0.7	16	0.7		17	GND	18		3.2	19	2.9		20	0	21		2.9	22	0		23	0	24		0	IC1307	1	2.4		2		4.2	3		3.3		4	0		5		GND	6		0.1	7	0			8	0	9	0.1		10	0.7		11			0.3	12	0.3				13	0.7			14	0.7		15			0.7	16	0.7	17	GND		18	3.2	19	2.9	20		0	21	2.9	22	0		23	0	24	0	IC1308		1	2.4	2		4.2		3	3.3	4	0			5	GND	6		0.1			7	0		8		0		9		0.1		10	0.7			11		0.3	12	0.3				13	0.7	14		0.7			15	0.7		16	0.7	17	GND	18		3.2	19	2.9	20	0		21	2.9	22	0	23		0	24	0	IC1309	1		2.4	2		4.2	3		3.3		4	0	5			GND	6	0.1			7	0	8		0		9	0.1		10	0.7		11		0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0															
	9	0.1	10		0.7	11		0.3	12		0.3		13		0.7		14		0.7		15		0.7		16		0.7		17		GND		18		3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1	10	0.7																11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1	10	0.7	11	0.3	12	0.3	13	0.7	14																0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND	6	0.1	7	0	8			0		9		0.1				10		0.7		11				0.3		12		0.3				13		0.7		14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4	2		4.2		3	3.3			4		0	5			GND		6	0.1			7		0	8			0		9	0.1			10	0.7	11		0.3	12			0.3	13	0.7		14	0.7	15		0.7		16		0.7	17	GND	18	3.2	19	2.9	20		0	21	2.9		22	0	23		0	24	0		IC1307	1	2.4		2		4.2	3		3.3		4	0		5		GND	6		0.1		7	0		8	0	9			0.1	10	0.7	11		0.3	12		0.3		13	0.7	14	0.7				15	0.7			16	0.7		17			GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0		IC1308	1	2.4	2			4.2	3	3.3		4		0	5	GND	6			0.1	7	0	8	0			9	0.1		10		0.7		11		0.3		12	0.3			13		0.7	14	0.7				15	0.7	16		0.7			17	GND		18	3.2	19	2.9	20		0	21	2.9	22	0		23	0	24	0	IC1309		1	2.4	2		4.2		3	3.3		4	0		5		GND	6	0.1			7	0	8			0	9	0.1		10		0.7	11		0.3	12		0.3		13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																		
	10	0.7	11		0.3	12		0.3	13		0.7		14		0.7		15		0.7		16		0.7		17		GND		18		3.2		19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7	11	0.3															12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7	11	0.3	12	0.3	13	0.7	14	0.7	15	0.7															16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1	7	0	8	0	9		0.1	10		0.7		11				0.3		12		0.3				13		0.7		14				0.7		15		0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4		2	4.2	3		3.3	4	0	5			GND		6	0.1			7		0	8			0		9	0.1			10		0.7	11			0.3	12	0.3		13	0.7			14	0.7	15		0.7	16	0.7		17		GND		18	3.2	19	2.9	20	0	21	2.9	22	0	23	0		24	0	IC1307		1	2.4	2			4.2	3		3.3		4	0		5		GND	6		0.1		7	0		8		0	9		0.1	10	0.7			11	0.3	12	0.3		13	0.7		14		0.7	15	0.7	16		0.7		17	GND			18	3.2		19			2.9	20	0	21	2.9		22	0	23	0	24		0	IC1308	1	2.4	2			4.2	3	3.3			4	0	5		GND		6	0.1	7	0			8	0	9	0.1	10			0.7	11	0.3	12		0.3		13		0.7		14	0.7			15		0.7	16	0.7				17	GND	18		3.2			19	2.9		20	0	21	2.9	22		0	23	0	24	0		IC1309	1	2.4	2			4.2	3	3.3		4		0	5		GND	6		0.1		7	0	8			0	9	0.1			10	0.7	11		0.3		12	0.3		13	0.7		14		0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																					
	11	0.3	12		0.3	13		0.7	14		0.7		15		0.7		16		0.7		17		GND		18		3.2		19		2.9	20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3	12	0.3														13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3	12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17														GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0	8	0	9	0.1	10		0.7	11	0.3	12		0.3				13		0.7		14				0.7		15		0.7				16		0.7		17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4		2	4.2		3	3.3	4		0	5	GND	6	0.1		7		0	8			0		9	0.1			10		0.7	11			0.3		12	0.3			13	0.7	14		0.7	15			0.7	16	0.7		17	GND	18		3.2		19		2.9	20	0	21	2.9	22	0	23	0	24	0	IC1307	1	2.4	2			4.2	3	3.3			4	0		5		GND	6		0.1		7	0		8		0	9		0.1		10	0.7		11	0.3	12			0.3	13	0.7	14		0.7	15		0.7		16	0.7	17	GND		18		3.2	19		2.9	20	0		21			2.9	22	0	23	0		24	0	IC1308	1	2.4		2		4.2	3	3.3			4	0	5			GND	6	0.1		7		0	8	0	9			0.1	10	0.7	11	0.3			12	0.3	13	0.7		14		0.7	15	0.7		16	0.7			17		GND	18	3.2				19	2.9	20		0			21	2.9		22	0	23	0	24		0	IC1309	1	2.4	2			4.2	3	3.3			4	0	5		GND		6	0.1		7	0		8		0	9	0.1			10	0.7	11			0.3	12	0.3		13		0.7	14		0.7	15		0.7		16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																								
	12	0.3	13		0.7	14		0.7	15		0.7		16		0.7		17		GND		18		3.2		19		2.9		20	0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3	13	0.7													14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3	13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2													19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0	9	0.1	10	0.7	11		0.3	12	0.3	13	0.7	14				0.7		15		0.7				16		0.7		17				GND		18		3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4		2	4.2		3	3.3		4	0	5		GND	6	0.1	7	0		8	0	9	0.1			10		0.7	11			0.3		12	0.3			13		0.7	14			0.7	15	0.7		16	0.7			17	GND	18		3.2	19	2.9		20		0		21	2.9	22	0	23	0	24	0	IC1307	1	2.4		2	4.2	3		3.3	4	0	5			GND	6		0.1		7	0		8		0	9		0.1		10	0.7		11		0.3	12		0.3	13	0.7			14	0.7	15	0.7		16	0.7		17		GND	18	3.2	19		2.9		20	0		21	2.9	22		0		23	0	24	0	IC1308	1		2.4	2		4.2	3		3.3		4	0	5			GND	6	0.1			7	0	8		0		9	0.1	10	0.7			11	0.3	12	0.3	13			0.7	14	0.7	15		0.7		16	0.7	17		GND	18		3.2	19		2.9	20	0				21	2.9	22		0			23	0		24	0	IC1309	1	2.4		2		4.2	3	3.3			4	0	5			GND	6	0.1		7		0	8		0	9		0.1		10	0.7	11			0.3	12	0.3			13	0.7	14		0.7		15	0.7		16	0.7		17		GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0																											
	13	0.7	14		0.7	15		0.7	16		0.7		17		GND		18		3.2		19		2.9		20		0	21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7	14	0.7												15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7	14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20												0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1	10	0.7	11	0.3	12		0.3	13	0.7	14	0.7	15	0.7			16		0.7		17				GND		18		3.2				19		2.9		20	0	21	2.9	22	0	23	0	24	0	IC1306	1	2.4		2	4.2		3	3.3		4	0		5	GND	6		0.1	7	0	8	0		9	0.1	10	0.7	11		0.3		12	0.3			13		0.7	14			0.7		15	0.7			16	0.7	17		GND	18			3.2	19	2.9		20	0	21		2.9		22		0	23	0	24	0	IC1307	1	2.4		2	4.2		3	3.3	4		0	5	GND	6	0.1		7	0		8		0	9		0.1		10	0.7		11		0.3	12		0.3		13	0.7		14	0.7	15			0.7	16	0.7	17		GND	18		3.2		19	2.9	20	0		21		2.9	22		0	23	0		24		0	IC1308	1	2.4		2	4.2	3	3.3		4	0		5		GND	6	0.1			7	0	8			0	9	0.1		10		0.7	11	0.3	12			0.3	13	0.7	14	0.7			15	0.7	16	0.7		17		GND	18	3.2		19	2.9		20	0		21	2.9	22	0			23	0	24		0			IC1309	1		2.4	2		4.2	3		3.3		4	0	5			GND	6	0.1			7	0	8		0		9	0.1		10	0.7		11		0.3	12	0.3			13	0.7	14			0.7	15	0.7		16		0.7	17		GND	18		3.2		19	2.9	20	0	21	2.9	22	0	23	0	24	0																														
	14	0.7	15		0.7	16		0.7	17		GND		18		3.2		19		2.9		20		0		21	2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7	15	0.7											16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7	15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9											22	0	23	0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7	11	0.3	12	0.3	13		0.7	14	0.7	15	0.7	16	0.7		17	GND		18		3.2				19		2.9		20				0		21		2.9	22	0	23	0	24	0	IC1306	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3	12		0.3	13	0.7	14			0.7		15	0.7			16		0.7	17			GND	18	3.2		19	2.9			20	0	21		2.9	22	0		23		0		24	0	IC1307	1	2.4		2	4.2		3	3.3		4	0	5		GND	6	0.1	7	0		8	0	9	0.1		10	0.7		11		0.3	12		0.3		13	0.7		14		0.7	15		0.7	16	0.7			17	GND	18	3.2		19	2.9		20		0	21	2.9	22		0		23	0		24	0	IC1308		1		2.4		2	4.2		3	3.3	4	0		5	GND	6	0.1		7	0	8			0	9	0.1			10	0.7	11		0.3		12	0.3	13	0.7			14	0.7	15	0.7	16			0.7	17	GND	18		3.2		19	2.9	20		0	21		2.9	22		0	23	0	24			0	IC1309	1	2.4	2				4.2		3	3.3		4	0		5		GND	6	0.1			7	0	8			0	9	0.1		10		0.7	11		0.3	12		0.3		13	0.7	14			0.7	15	0.7			16	0.7	17		GND		18	3.2		19	2.9		20		0	21	2.9	22	0	23	0	24	0																																	
	15	0.7	16		0.7	17		GND	18		3.2		19		2.9		20		0		21		2.9	22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7	16	0.7										17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7	16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23										0	24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3	12	0.3	13	0.7	14		0.7	15	0.7	16	0.7	17	GND		18	3.2	19	2.9		20				0		21		2.9				22		0		23	0	24	0	IC1306	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0	8		0	9	0.1	10	0.7		11	0.3	12	0.3	13		0.7	14	0.7	15	0.7		16		0.7	17			GND		18	3.2			19	2.9	20		0	21			2.9	22	0		23	0	24		0		IC1307		1	2.4		2	4.2		3	3.3		4	0		5	GND	6		0.1	7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7		14		0.7	15		0.7		16	0.7		17	GND	18			3.2	19	2.9	20		0	21		2.9		22	0	23	0		24		0	IC1308		1	2.4			2		4.2		3	3.3		4	0	5	GND		6	0.1	7	0		8	0	9	0.1		10	0.7	11			0.3	12	0.3		13		0.7	14	0.7	15			0.7	16	0.7	17	GND			18	3.2	19	2.9		20		0	21	2.9		22	0		23	0		24	0	IC1309	1			2.4		2	4.2	3				3.3	4	0	5		GND	6		0.1		7	0	8			0	9	0.1			10	0.7	11		0.3		12	0.3		13	0.7		14		0.7	15	0.7			16	0.7	17			GND	18	3.2		19		2.9	20		0	21		2.9		22	0	23	0	24	0																																				
	16	0.7	17		GND	18		3.2	19		2.9		20		0		21		2.9		22	0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7	17	GND									18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7	17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0									IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3	13	0.7	14	0.7	15		0.7	16	0.7	17	GND	18	3.2		19	2.9	20	0	21	2.9				22		0		23				0		24		0	IC1306	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0	9		0.1	10	0.7	11	0.3		12	0.3	13	0.7	14		0.7	15	0.7	16	0.7		17	GND	18	3.2			19		2.9	20			0	21	2.9		22	0			23	0	24		0	IC1307	1		2.4				2	4.2		3	3.3		4	0		5	GND		6	0.1	7		0	8	0	9	0.1		10	0.7	11	0.3		12	0.3	13	0.7		14	0.7	15	0.7		16	0.7		17		GND	18		3.2	19	2.9			20	0	21	2.9		22	0		23		0	24	0	IC1308		1		2.4			2	4.2			3		3.3		4	0		5	GND	6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12		0.3	13	0.7	14		0.7		15	0.7	16	0.7			17	GND	18	3.2	19			2.9	20	0	21		2.9		22	0	23		0	24		0	IC1309		1	2.4		2			4.2		3	3.3	4				0	5	GND	6		0.1	7	0	8		0	9	0.1			10	0.7	11			0.3	12	0.3		13		0.7	14		0.7	15		0.7		16	0.7	17			GND	18	3.2			19	2.9	20		0		21	2.9		22	0		23		0	24	0																																							
	17	GND	18		3.2	19		2.9	20		0		21		2.9		22		0	23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND	18	3.2								19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND	18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1	2.4									2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7	14	0.7	15	0.7	16		0.7	17	GND	18	3.2	19	2.9		20	0	21	2.9	22	0	23			0		24		0				IC1306		1		2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1	10		0.7	11	0.3	12	0.3		13	0.7	14	0.7	15		0.7	16	0.7	17	GND		18	3.2	19	2.9	20		0		21	2.9			22	0	23		0	24			0	IC1307	1		2.4		2		4.2				3	3.3		4	0		5	GND		6	0.1		7	0	8		0	9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9		20	0	21			2.9	22	0	23		0	24		0		IC1308	1	2.4			2		4.2			3	3.3			4		0		5	GND		6	0.1	7	0		8	0	9	0.1		10	0.7	11	0.3		12	0.3	13		0.7	14	0.7	15		0.7	16	0.7	17	GND	18			3.2	19	2.9	20	0			21	2.9	22	0		23		0	24	0		IC1309	1		2.4			2	4.2		3			3.3		4	0	5				GND	6	0.1	7		0	8	0	9		0.1	10	0.7	11		0.3	12	0.3			13	0.7	14		0.7		15	0.7		16	0.7		17		GND	18	3.2			19	2.9	20			0	21	2.9		22		0	23		0	24		0																																											
	18	3.2	19		2.9	20		0	21		2.9		22		0		23	0	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2	19	2.9							20	0	21	2.9	22	0	23	0	24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2	19	2.9	20	0	21	2.9	22	0	23	0	24	0	IC1305	1		2.4	2	4.2								3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7	15	0.7	16	0.7	17		GND	18	3.2	19	2.9	20	0		21	2.9	22	0	23	0	24		0	IC1306		1		2.4						2		4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7	11		0.3	12	0.3	13	0.7		14	0.7	15	0.7	16		0.7	17	GND	18	3.2		19	2.9	20	0	21		2.9	22	0	23			0	24	0		IC1307	1			2.4		2		4.2		3		3.3				4	0		5	GND		6	0.1		7	0		8	0	9		0.1	10	0.7	11	0.3		12	0.3	13	0.7		14	0.7	15	0.7		16	0.7	17	GND		18	3.2	19	2.9		20	0	21	2.9	22	0			23	0	24	0		IC1308	1		2.4			2	4.2			3		3.3			4	0			5		GND		6	0.1		7	0	8	0		9	0.1	10	0.7		11	0.3	12	0.3		13	0.7	14		0.7	15	0.7	16		0.7	17	GND	18	3.2	19		2.9	20	0	21	2.9	22			0	23	0	24		0		IC1309	1	2.4			2		4.2			3	3.3		4			0		5	GND	6				0.1	7	0	8		0	9	0.1	10		0.7	11	0.3	12		0.3	13	0.7		14	0.7	15	0.7		16		0.7	17		GND	18		3.2		19	2.9	20			0	21	2.9			22	0	23		0		24	0																																																
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	22	0	23		0	24		0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0	23	0			24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0	23	0	24	0	IC1305	1		2.4		2		4.2		3		3.3	4	0	5	GND	6	0.1				7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2	19	2.9	20	0	21		2.9	22	0	23	0	24	0		IC1306	1		2.4		2			4.2		3	3.3	4	0	5		GND			6		0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7	15		0.7	16	0.7	17	GND		18	3.2	19	2.9	20		0	21	2.9	22	0		23	0	24	0	IC1307		1		2.4			2		4.2	3	3.3		4		0	5		GND	6	0.1		7		0				8	0		9	0.1		10	0.7		11	0.3		12	0.3	13		0.7	14	0.7	15	0.7		16	0.7	17	GND		18	3.2	19	2.9		20	0	21	2.9		22	0	23	0		24	0	IC1308	1		2.4			2		4.2	3	3.3		4		0	5		GND	6		0.1	7		0			8	0			9		0.1		10	0.7		11	0.3	12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18		3.2	19	2.9	20		0	21	2.9	22	0	23		0	24	0	IC1309	1		2.4			2		4.2	3	3.3			4	0	5		GND		6		0.1	7	0		8			0		9	0.1	10				0.7	11	0.3	12		0.3	13	0.7	14		0.7	15	0.7	16		0.7	17	GND		18	3.2	19	2.9		20	0	21	2.9		22	0	23	0		24	0																																																																
	23	0	24		0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0	24	0		IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0	24	0	IC1305	1		2.4		2		4.2		3		3.3		4	0	5	GND	6	0.1	7	0			8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9	20	0	21	2.9	22		0	23	0	24	0	IC1306	1			2.4		2		4.2			3		3.3	4	0	5	GND		6		0.1	7		0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7	16		0.7	17	GND	18	3.2		19	2.9	20	0	21		2.9	22	0	23	0		24	0	IC1307	1			2.4		2			4.2		3	3.3	4		0		5	GND		6	0.1	7		0	8	0				9	0.1		10	0.7		11	0.3		12	0.3		13	0.7	14		0.7	15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0		IC1308	1		2.4		2			4.2		3	3.3	4		0		5	GND		6	0.1		7	0		8		0	9	0.1			10		0.7		11	0.3		12	0.3	13	0.7		14	0.7	15	0.7		16	0.7	17	GND		18	3.2	19		2.9	20	0	21		2.9	22	0	23	0	24		0	IC1309	1		2.4		2			4.2		3	3.3	4			0	5	GND		6		0.1		7	0	8		0		9	0.1		10	0.7	11				0.3	12	0.3	13		0.7	14	0.7	15		0.7	16	0.7	17		GND	18	3.2		19	2.9	20	0		21	2.9	22	0		23	0	24	0																																																																			
	24	0	IC1303	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1305	1		2.4		2		4.2		3		3.3		4		0	5	GND	6	0.1	7	0	8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0	21	2.9	22	0	23		0	24	0	IC1306	1		2.4			2		4.2		3			3.3		4	0	5	GND	6		0.1		7	0	8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7	17		GND	18	3.2	19	2.9		20	0	21	2.9	22		0	23	0	24	0		IC1307	1		2.4			2		4.2			3		3.3	4	0		5		GND	6		0.1	7	0		8	0	9			0.1	10	0.7		11	0.3		12	0.3		13	0.7		14	0.7	15		0.7	16	0.7	17	GND		18	3.2	19	2.9		20	0	21	2.9		22	0	23	0		24	0	IC1308	1			2.4		2		4.2			3		3.3	4	0		5		GND	6		0.1	7		0	8		0		9	0.1	10			0.7	11	0.3		12	0.3		13	0.7	14	0.7		15	0.7	16	0.7		17	GND	18	3.2		19	2.9	20		0	21	2.9	22		0	23	0	24	0	IC1309		1		2.4		2		4.2			3		3.3	4	0			5	GND	6		0.1		7		0	8	0		9		0.1	10		0.7	11	0.3	12			0.3	13	0.7	14		0.7	15	0.7	16		0.7	17	GND	18		3.2	19	2.9		20	0	21	2.9		22	0	23	0		24	0																																																																					
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IC1304	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1305	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1306	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22		0		23	0	24	0	IC1307	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19		2.9	20		0		21		2.9	22		0	23	0	24	0	IC1308	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17		GND	18		3.2		19	2.9		20		0	21		2.9		22	0	23	0	24	0	IC1309	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16		0.7	17		GND		18	3.2		19		2.9	20		0		21	2.9		22	0	23	0	24	0																																																																																																																																										
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	7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1308	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1309	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																				
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	9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1308	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1309	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																										
	10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1308	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1309	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																													
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	4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0	IC1309	1	2.4		2	4.2		3	3.3		4	0		5	GND		6	0.1		7	0		8	0		9	0.1		10	0.7		11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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	11	0.3		12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	12	0.3		13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	13	0.7		14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	14	0.7		15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	15	0.7		16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	16	0.7		17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	17	GND		18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	18	3.2		19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	19	2.9		20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	20	0		21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	21	2.9		22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	22	0		23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	23	0		24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	24	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

• All voltages are in V.
 • Pin numbers which are not described are not used.

A (2/4) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.	REF.	VOL.
Q1301	B	0	Q1321	B	3.4
	E	0		E	4.0
	C	5.0		C	1.1
Q1302	B	0	Q1341	B	0
	E	0		E	3.2
	C	5.0		C	4.5
Q1303	B	0	Q1361	B	2.5
	E	0		E	1.9
	C	5.0		C	4.9
Q1304	B	4.4	Q1381	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1305	B	4.4	Q1401	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1306	B	4.4	Q1421	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1307	B	4.4	Q1441	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1308	B	4.4	Q1461	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1309	B	4.4	Q1481	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1310	B	4.4	Q1501	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1311	B	4.4	Q1521	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1312	B	4.4	Q1541	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1313	B	4.4	Q1561	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1314	B	4.4	Q1581	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1315	B	4.4	Q1601	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1316	B	4.4	Q1621	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1317	B	4.4	Q1641	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1318	B	4.4	Q1661	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1319	B	4.4	Q1681	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0
Q1320	B	4.4	Q1701	B	4.4
	E	3.8		E	3.8
	C	9.0		C	9.0

All voltages are in V.

A (4/4) BOARD IC VOLTAGE LIST

REF.	Pin No.	VOL.	REF.	Pin No.	VOL.
IC1601	1	0	8	0.2	
	2	0	9	0	
	3	GND	10	GND	
	4	11.9	11	-11.8	
	5	GND	12	GND	
	6	0	13	0	
	7	0	14	0	
	8	0	15	0	
	9	0	2	0.8	
	10	GND	3	0	
	11	-11.8	4	11.9	
	12	GND	5	0	
	13	0	6	1.0	
	14	-0.2	7	-10.5	
	15	0	8	-10.5	
	IC1603	1	1.0	8	-10.5
2		0.9	9	0.8	
3		GND	10	0	
4		GND	11	-11.8	
5		GND	12	0	
6		GND	13	0.8	
7		0	14	-10.5	
IC1604	1	0	9	0.9	
	2	0	10	0.2	
	3	GND	11	-11.8	
	4	GND	12	0	
	5	GND	13	0.8	
	6	0	14	-10.5	
	7	0	15	0	

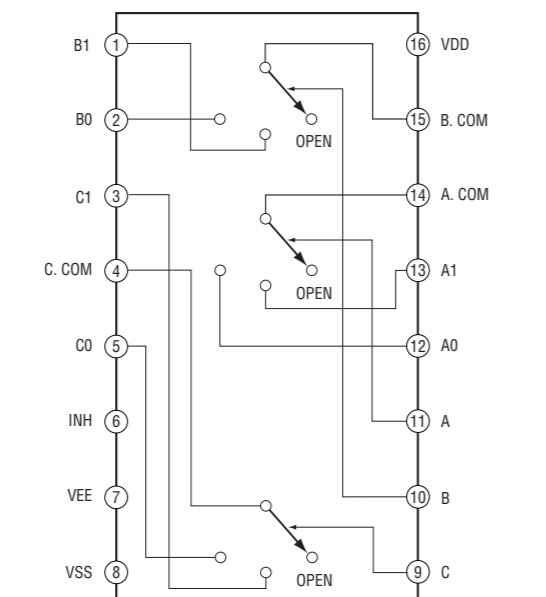
* All voltages are in V.
* Pin numbers which are not described are not used.

A (4/4) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q1601	B 0	Q1610	D 12.0
	C -0.2		S -0.2
	B 0		D 12.0
Q1602	E GND	Q1611	G -0.2
	C -0.2		S 1.0
	B 0		D 0.8
Q1603	E GND	Q1612	G 12.0
	C -0.2		S -0.2
	B 0		D 12.0
Q1604	E GND	Q1613	G -0.2
	C -0.2		S 0.9
	B 0		D 12.0
Q1605	E GND	Q1614	G -0.2
	C -0.2		S 1.0
	B 0		D 12.0
Q1606	E GND	Q1615	G -0.2
	C -0.2		S 0.8
	B 0		D 12.0
Q1607	E GND	Q1616	G -0.2
	C -0.2		S 0.9
	B 0		D 0.8
Q1608	E GND	Q1617	E GND
	C -0.2		C 0
Q1609	S 1.0		

All voltages are in V.

A (4/4) BOARD : IC1603 MC14053BFEL

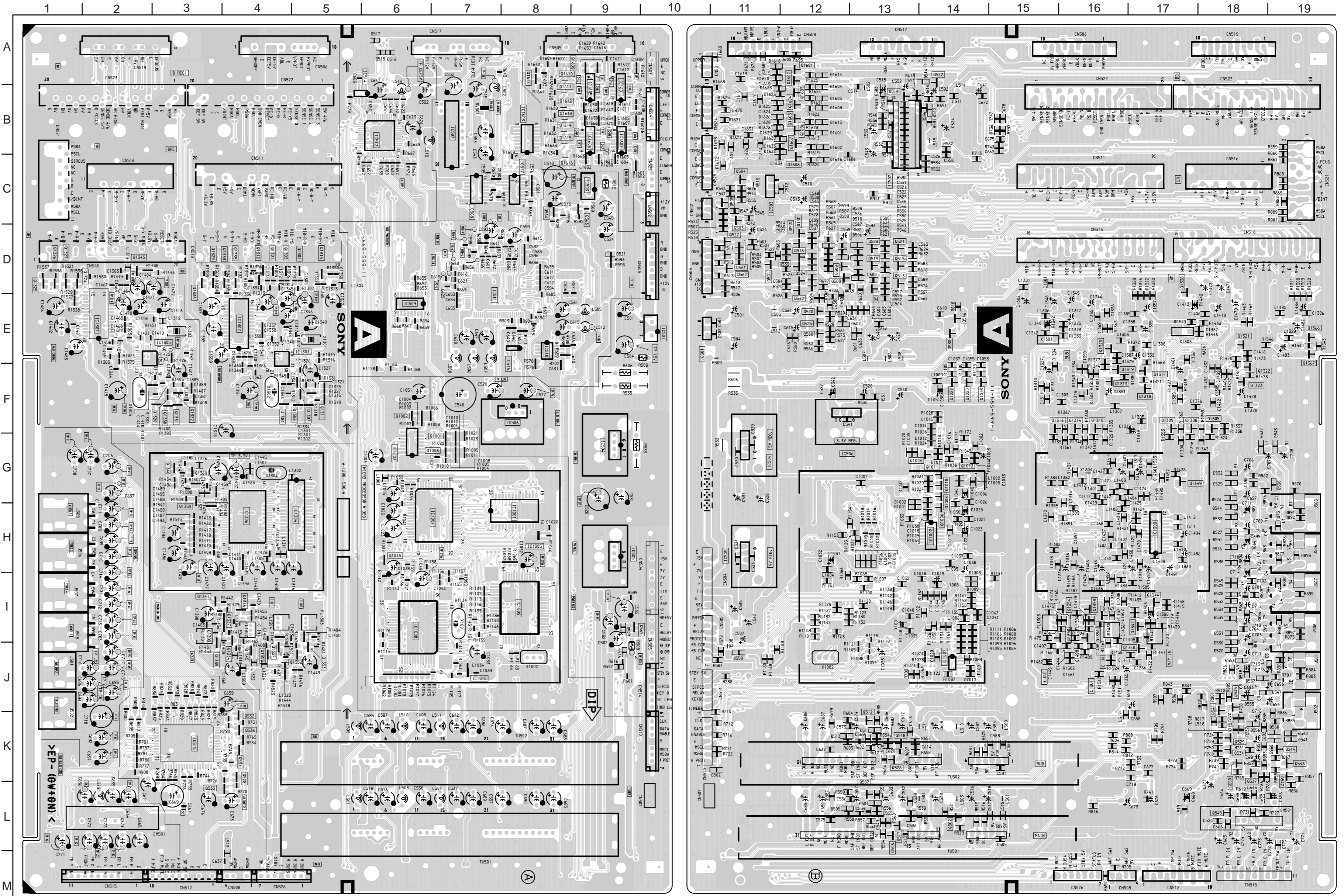
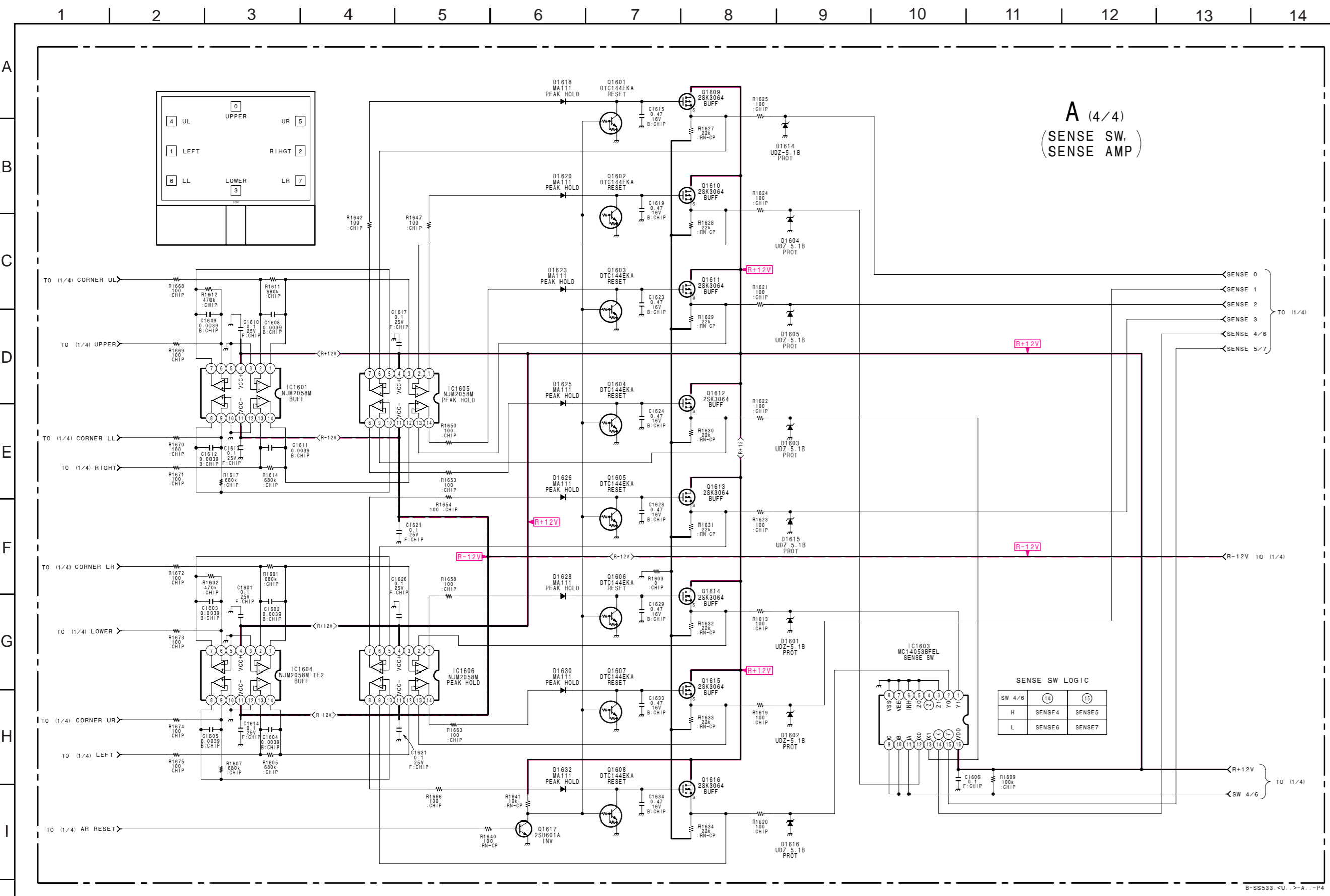


- A (1/4)** AVU SW, VIDEO PROCESSOR, VDSP, LH JUNGLE, TUNER, VIDEO/DVD INPUT
- A (2/4)** CHROMA DECODER, YUV SW, 3D COMB FILTER, A/D CONVERTER
- A (3/4)** MAIN CPU, OSD CPU, LOSD PROCESSOR, NVM
- A (4/4)** SENSE SW, SENSE AMP

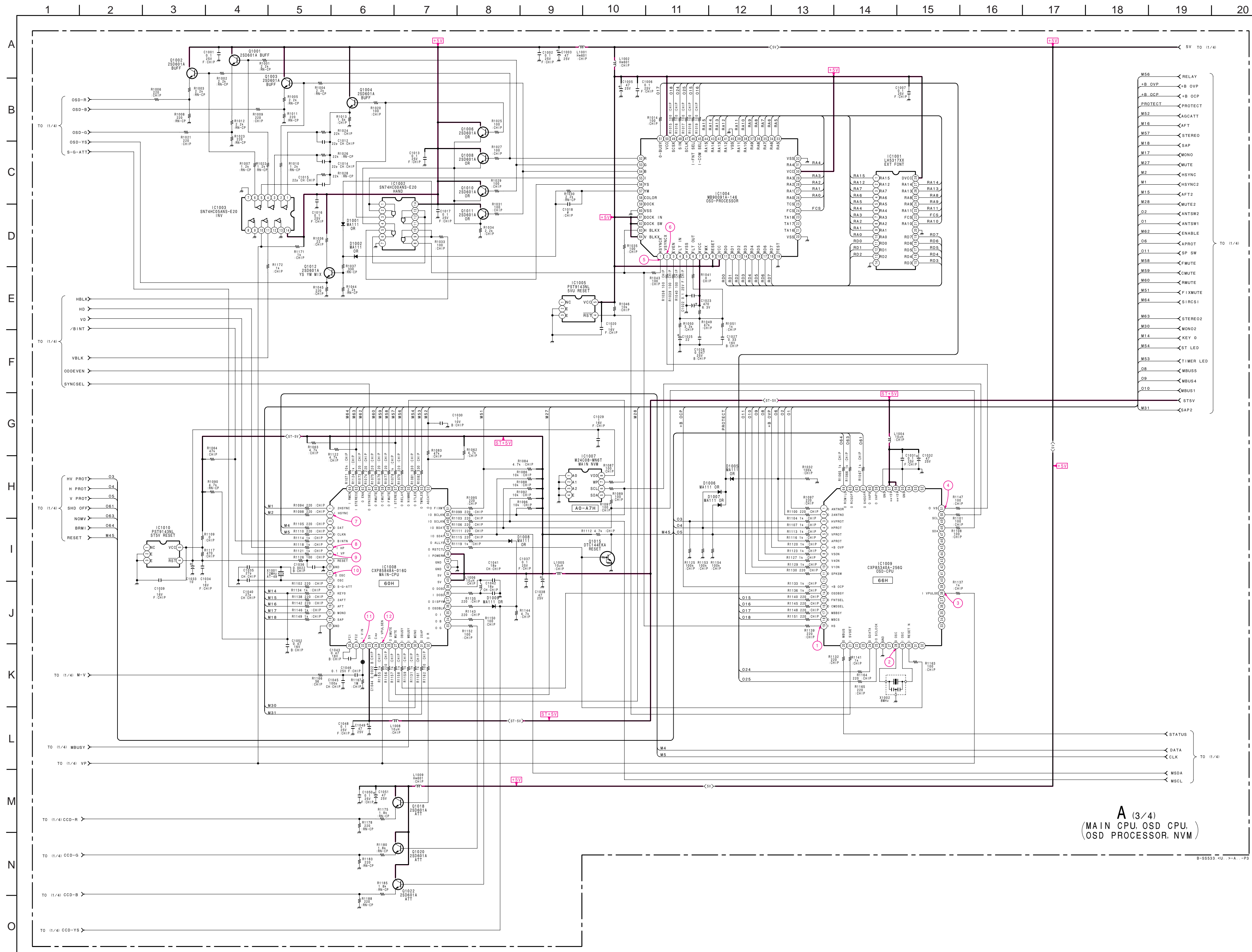
- A Board -

A BOARD

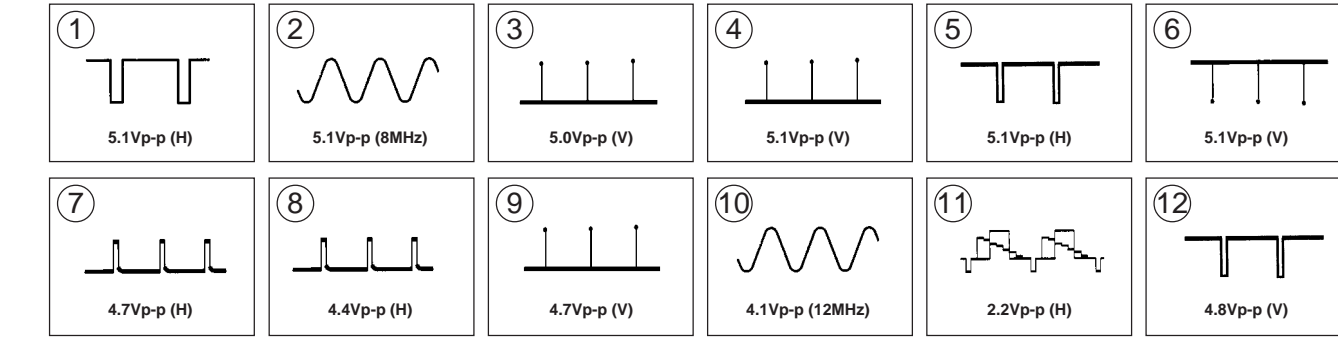
DIODE	*	D521	D-9	D544	G-18	D1602	B-12	Q505	C-11	Q526	K-13	Q560	E-12	Q1304	F-4	Q1325	D-1	Q1346	I-4	Q1607	B-12	IC510	E-8	IC1307	E-2
D501	D-11	D523	I-9	D545	H-18	D1603	B-12	Q506	L-13	Q527	D-11	Q561	D-11	Q1305	F-18	Q1326	D-1	Q1347	I-16	Q1608	B-12	IC511	D-7	IC1309	H-17
D502	K-11	D524	G-18	D546	G-18	D1604	A-12	Q507	F-18	Q528	K-4	Q562	D-11	Q1306	F-9	Q1327	D-4	Q1348	G-3	Q1609	A-8	IC512	B-9	IC1601	B-9
D503	A-13	D525	G-18	D547	G-18	D1605	B-12	Q508	D-12	Q529	E-14	Q563	C-9	Q1307	F-5	Q1328	F-3	Q1349	G-17	Q1610	A-8	IC513	C-8	IC1603	B-8
D504	L-13	D526	H-18	D548	H-18	D1614	A-12	Q509	D-12	Q530	K-4	Q564	C-8	Q1308	F-18	Q1329	D-3	Q1350	I-16	Q1611	B-8	IC514	K-2	IC1604	B-9
D505	L-13	D527	H-18	D549	H-18	D1615	B-12	Q510	D-12	Q531	J-4	Q565	F-7	Q1309	F-17	Q1330	F-3	Q1351	J-5	Q1612	B-8	IC515	E-8	IC1605	B-9
D506	D-13	D528	I-18	D550	L-4	Q511	C-12	Q511	F-16	Q532	L-4	Q566	F-6	Q1310	F-16	Q1331	F-3	Q1352	J-5	Q1613	B-8	IC516	C-8	IC1606	B-9
D507	D-12	D529	I-18	D551	J-18	D1616	A-11	Q512	J-13	Q533	K-18	Q567	F-7	Q1311	F-5	Q1332	F-3	Q1353	I-16	Q1614	B-8	IC1001	H-8		
D508	D-12	D530	I-18	D552	K-18	D1620	A-11	Q513	D-13	Q534	K-4	Q568	G-14	Q1312	D-4	Q1333	D-4	Q1354	I-16	Q1615	B-8	IC1002	H-14		
D509	D-13	D531	I-18	D553	J-18	D1623	A-12	Q514	B-13	Q535	K-18	Q569	G-14	Q1313	F-16	Q1334	I-4	Q1355	I-16	Q1616	C-8	IC1003	G-6		
D510	D-13	D532	H-18	D554	J-18	Q515	D-13	Q515	F-16	Q536	K-18	Q570	G-14	Q1314	F-16	Q1335	D-4	Q1356	I-16	Q1617	A-8	IC1004	H-7		
D511	K-13	D533	H-18	D555	K-19	D1626	A-12	Q516	D-12	Q537	D-12	Q571	G-14	Q1315	D-5	Q1336	D-3	Q1357	I-16	Q1618	C-8	IC1005	H-8		
D512	B-14	D534	I-18	D556	K-18	D1628	A-12	Q517	L-13	Q538	K-18	Q572	G-14	Q1316	F-16	Q1337	I-4	Q1358	G-3	Q1619	A-8	IC1006	H-8		
D513	K-13	D535	J-9	D1001	G-13	D1629	A-12	Q518	K-13	Q539	K-18	Q573	G-14	Q1317	F-17	Q1338	D-17	Q1359	E-19	Q1620	B-12	IC501	E-10	IC1008	L-6
D514	A-14	D536	G-18	Q502	A-12	D1632	A-12	Q519	D-13	Q540	K-19	Q574	G-14	Q1318	F-16	Q1339	I-4	Q1360	E-19	Q1621	B-12	IC502	C-11	IC1009	H-8
D515	A-8	D537	G-18	D1003	H-13	D1006	H-13	Q541	K-19	Q542	K-19	Q575	G-14	Q1319	F-15	Q1340	I-17	Q1361	A-12	Q1622	B-12	IC503	G-8	IC1010	J-7
D516	A-6	D538	I-18	D1004	H-13	D1008	H-13	Q543	K-19	Q544	K-19	Q576	G-14	Q1320	E-16	Q1341	I-3	Q1362	A-12	Q1623	B-12	IC504	H-9	IC1011	E-4
D517	A-6	D540	K-19	D1007	H-13	D1009	H-14	Q545	E-14	Q546	E-14	Q577	G-14	Q1321	F-14	Q1342	E-18	Q1363	B-12	Q1624	B-12	IC505	F-8	IC1012	E-4
D518	J-18	D541	K-19	D1008	H-14	D1010	D-5	Q547	E-14	Q548	E-14	Q578	G-14	Q1322	F-4	Q1343	I-17	Q1364	B-12	Q1625	B-12	IC506	B-7	IC1013	H-5
D519	J-18	D542	J-9	D1009	H-14	Q503	C-11	Q549	E-14	Q550	E-14	Q579	G-14	Q1323	F-18	Q1344	I-17	Q1365	B-12	Q1626	B-12	IC507	C-7	IC1014	H-5
D520	L-18	D543	G-19	D1601	B-12	Q504	C-11	Q551	E-12	Q552	E-12	Q580	G-14	Q1324	D-1	Q1345	J-4	Q1366	B-12	Q1627	B-12	IC508	E-6	IC1015	H-4



NOTE:
 - : Pattern from the side which enables seeing.
 - : Pattern of the rear side.



• A (3/4) BOARD WAVEFORMS



A (3/4) BOARD IC VOLTAGE LIST

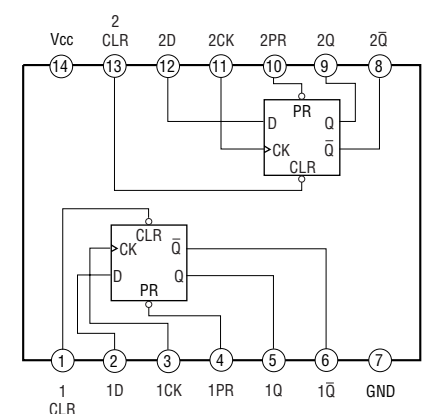
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC1001	1	1.1	IC1007	4	5.0	IC1008	1	0.1	IC1009	1	4.7
IC1001	2	0.9	IC1007	5	5.0	IC1008	2	0.1	IC1009	2	4.7
IC1001	3	1.1	IC1007	6	3.3	IC1008	3	0.1	IC1009	3	0.3
IC1001	4	1.1	IC1007	7	5.0	IC1008	4	4.8	IC1009	4	0
IC1001	5	1.0	IC1007	8	5.0	IC1008	5	4.8	IC1009	5	0
IC1001	6	0	IC1007	9	5.0	IC1008	6	3.7	IC1009	6	0
IC1001	7	1.8	IC1007	10	5.0	IC1008	7	4.9	IC1009	7	0
IC1001	8	1.9	IC1007	11	5.0	IC1008	8	0	IC1009	8	0
IC1001	9	1.9	IC1007	12	5.0	IC1008	9	4.9	IC1009	9	0
IC1001	10	1.8	IC1007	13	5.0	IC1008	10	0	IC1009	10	0
IC1001	11	5.0	IC1007	14	5.0	IC1008	11	2.5	IC1009	11	2.5
IC1001	12	5.0	IC1007	15	5.0	IC1008	12	2.2	IC1009	12	2.2
IC1001	13	5.0	IC1007	16	5.0	IC1008	13	4.9	IC1009	13	4.9
IC1001	14	5.0	IC1007	17	5.0	IC1008	14	4.9	IC1009	14	4.9
IC1001	15	5.0	IC1007	18	5.0	IC1008	15	2.0	IC1009	15	2.0
IC1001	16	5.0	IC1007	19	GND	IC1008	16	2.2	IC1009	16	2.2
IC1001	17	5.0	IC1007	20	GND	IC1008	17	0	IC1009	17	0
IC1001	18	5.0	IC1007	21	1.1	IC1008	18	0	IC1009	18	0
IC1001	19	5.0	IC1007	22	5.0	IC1008	19	GND	IC1009	19	GND
IC1001	20	GND	IC1007	23	1.1	IC1008	20	1.7	IC1009	20	1.7
IC1001	21	1.1	IC1007	24	1.8	IC1008	21	2.7	IC1009	21	2.7
IC1001	22	5.0	IC1007	25	1.1	IC1008	22	2.5	IC1009	22	2.5
IC1001	23	1.1	IC1007	26	0.9	IC1008	23	5.0	IC1009	23	5.0
IC1001	24	1.1	IC1007	27	1.1	IC1008	24	0.1	IC1009	24	0.1
IC1001	25	1.1	IC1007	28	0.9	IC1008	25	4.7	IC1009	25	4.7
IC1001	26	0.9	IC1007	29	1.8	IC1008	26	0	IC1009	26	0
IC1001	27	1.1	IC1007	30	5.0	IC1008	27	0.1	IC1009	27	0.1
IC1001	28	5.0	IC1007	31	0	IC1008	28	0	IC1009	28	GND
IC1001	29	1.1	IC1007	32	GND	IC1008	29	0	IC1009	29	GND
IC1001	30	1.1	IC1007	33	1.1	IC1008	30	2.4	IC1009	30	2.4
IC1001	31	0	IC1007	34	1.1	IC1008	31	0	IC1009	31	0
IC1001	32	GND	IC1007	35	1.1	IC1008	32	0	IC1009	32	4.7
IC1001	33	1.1	IC1007	36	1.1	IC1008	33	0	IC1009	33	4.7
IC1001	34	1.1	IC1007	37	1.1	IC1008	34	0	IC1009	34	4.7
IC1001	35	1.1	IC1007	38	1.1	IC1008	35	0	IC1009	35	4.7
IC1001	36	5.0	IC1007	39	0.6	IC1008	36	0	IC1009	36	4.7
IC1001	37	GND	IC1007	40	0.6	IC1008	37	0	IC1009	37	4.7
IC1001	38	4.3	IC1007	41	0.6	IC1008	38	0	IC1009	38	4.7
IC1001	39	0.6	IC1007	42	1.1	IC1008	39	4.9	IC1009	39	4.9
IC1001	40	0.6	IC1007	43	0.1	IC1008	40	5.0	IC1009	40	5.0
IC1001	41	0	IC1007	44	0.1	IC1008	41	5.0	IC1009	41	5.0
IC1001	42	0	IC1007	45	0.1	IC1008	42	0	IC1009	42	GND
IC1001	43	0	IC1007	46	0	IC1008	43	0	IC1009	43	GND
IC1001	44	0	IC1007	47	0	IC1008	44	0	IC1009	44	0
IC1001	45	0	IC1007	48	4.1	IC1008	45	0	IC1009	45	0
IC1001	46	0	IC1007	49	1.1	IC1008	46	0	IC1009	46	0
IC1001	47	5.0	IC1007	50	4.3	IC1008	47	5.0	IC1009	47	5.0
IC1001	48	4.1	IC1007	51	4.4	IC1008	48	0	IC1009	48	0
IC1001	49	4.1	IC1007	52	0	IC1008	49	3.6	IC1009	49	3.6
IC1001	50	4.7	IC1007	53	0	IC1008	50	3.6	IC1009	50	3.6
IC1001	51	0.4	IC1007	54	0	IC1008	51	0	IC1009	51	0
IC1001	52	0.4	IC1007	55	0	IC1008	52	0	IC1009	52	0
IC1001	53	GND	IC1007	56	0	IC1008	53	0	IC1009	53	0
IC1001	54	GND	IC1007	57	0	IC1008	54	0	IC1009	54	0
IC1001	55	4.7	IC1007	58	0	IC1008	55	0	IC1009	55	0
IC1001	56	0	IC1007	59	4.9	IC1008	56	0	IC1009	56	0
IC1001	57	0	IC1007	60	4.7	IC1008	57	0	IC1009	57	0
IC1001	58	0	IC1007	61	5.0	IC1008	58	0	IC1009	58	0
IC1001	59	0	IC1007	62	5.0	IC1008	59	0	IC1009	59	0
IC1001	60	0	IC1007	63	4.3	IC1008	60	0	IC1009	60	0
IC1001	61	0	IC1007	64	5.0	IC1008	61	0	IC1009	61	0
IC1001	62	5.0	IC1007	65	0	IC1008	62	0	IC1009	62	0
IC1001	63	4.3	IC1007	66	0	IC1008	63	0	IC1009	63	0
IC1001	64	5.0	IC1007	67	0	IC1008	64	0	IC1009	64	0
IC1001	65	0	IC1007	68	0	IC1008	65	0	IC1009	65	0
IC1001	66	0	IC1007	69	0	IC1008	66	0	IC1009	66	0
IC1001	67	0	IC1007	70	0	IC1008	67	0	IC1009	67	0
IC1001	70	0	IC1007	71	0	IC1008	70	0	IC1009	70	0
IC1001	71	0	IC1007	72	0	IC1008	71	0	IC1009	71	0
IC1001	72	0	IC1007	73	0	IC1008	72	0	IC1009	72	0
IC1001	73	0	IC1007	74	0	IC1008	73	0	IC1009	73	0
IC1001	74	0	IC1007	75	0	IC1008	74	0	IC1009	74	0
IC1001	75	0	IC1007	76	0	IC1008	75	0	IC1009	75	0
IC1001	76	0	IC1007	77	0	IC1008	76	0	IC1009	76	0
IC1001	77	0	IC1007	78	0	IC1008	77	0	IC1009	77	0
IC1001	78	0	IC1007	79	0	IC1008	78	0	IC1009	78	0
IC1001	79	0	IC1007	80	0	IC1008	79	0	IC1009	79	0
IC1001	80	0	IC1007	81	0	IC1008	80	0	IC1009	80	0
IC1001	81	0	IC1007	82	0	IC1008	81	0	IC1009	81	0
IC1001	82	0	IC1007	83	0	IC1008	82	0	IC1009	82	0
IC1001	83	0	IC1007	84	0	IC1008	83	0	IC1009	83	0
IC1001	84	0	IC1007	85	0	IC1008	84	0	IC1009	84	0
IC1001	85	0	IC1007	86	0	IC1008	85	0	IC1009	85	0
IC1001	86	0	IC1007	87	0	IC1008	86	0	IC1009	86	0
IC1001	87	0	IC1007	88	0	IC1008	87	0	IC1009	87	0
IC1001	88	0	IC1007	89	0	IC1008	88	0	IC1009	88	0
IC1001	89	0	IC1007	90	0	IC1008	89	0	IC1009	89	0
IC1001	90	0	IC1007	91	0	IC1008	90	0	IC1009	90	0
IC1001	91	0	IC1007	92	0	IC1008	91	0	IC1009	91	0
IC1001	92	0	IC1007	93	0	IC1008	92	0	IC1009	92	0
IC1001	93	0	IC1007	94	0	IC1008	93	0	IC1009	93	0
IC1001	94	0	IC1007	95	0	IC1008	94	0	IC1009	94	0
IC1001	95	0	IC1007	96	0	IC1008	95	0	IC1009	95	0
IC1001	96	0	IC1007	97	0	IC1008	96	0	IC1009	96	0
IC1001	97	0	IC1007	98	0	IC1008	97	0	IC1009	97	0
IC1001	98	0	IC1007	99	0	IC1008	98	0	IC1009	98	0
IC1001	99	0	IC1007	100	0	IC1008	99	0	IC1009	99	0
IC1001	100	0	IC1007	101	0	IC1008	100	0	IC1009	100	0

A (3/4) BOARD TRANSISTOR VOLTAGE LIST

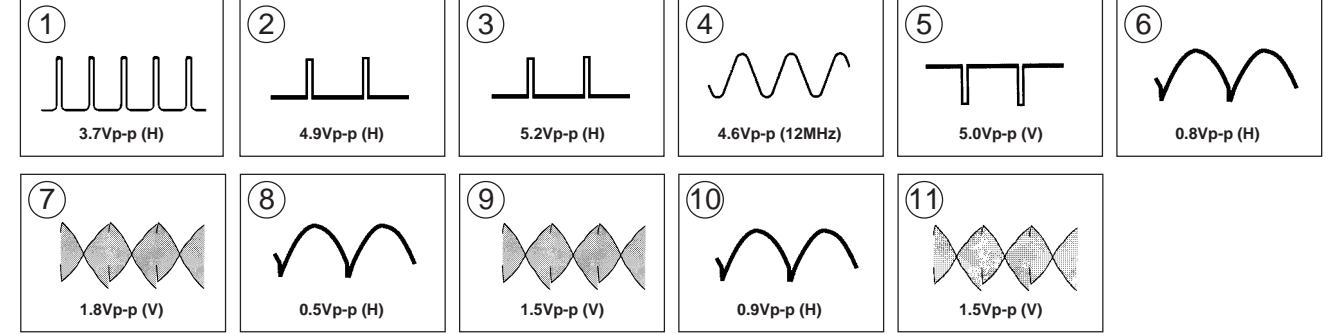
REF.	Pin NO.	VOL.
Q1001	B	0
Q1001	E	0
Q1001	C	5.0
Q1002	B	0
Q1002	E	0
Q1002	C	5.0
Q1003	B	0
Q1003	E	0
Q1003	C	5.0
Q1004	B	5.0
Q1004	E	4.4
Q1004	C	5.0
Q1006	B	5.0
Q1006	E	4.4
Q1006	C	5.0
Q1008	B	0
Q1008	E	4.4
Q1008	C	5.0
Q1010	B	0
Q1010	E	4.4
Q1010	C	5.0
Q1011	B	0
Q1011	E	4.4
Q1011	C	5.0
Q1012	B	0
Q1012	E	0
Q1012	C	5.0
Q1015	B	4.8
Q1015	E	GND
Q1015	C	0
Q1018	B	0
Q1018	E	0
Q1018	C	5.0
Q1020	B	0
Q1020	E	0
Q1020	C	5.0
Q1022	B	0
Q1022	E	0
Q1022	C	5.0

All voltages are in V.

A (3/4) MAIN CPU, OSD CPU, OSD PROCESSOR, NVM



BD BOARD WAVEFORMS



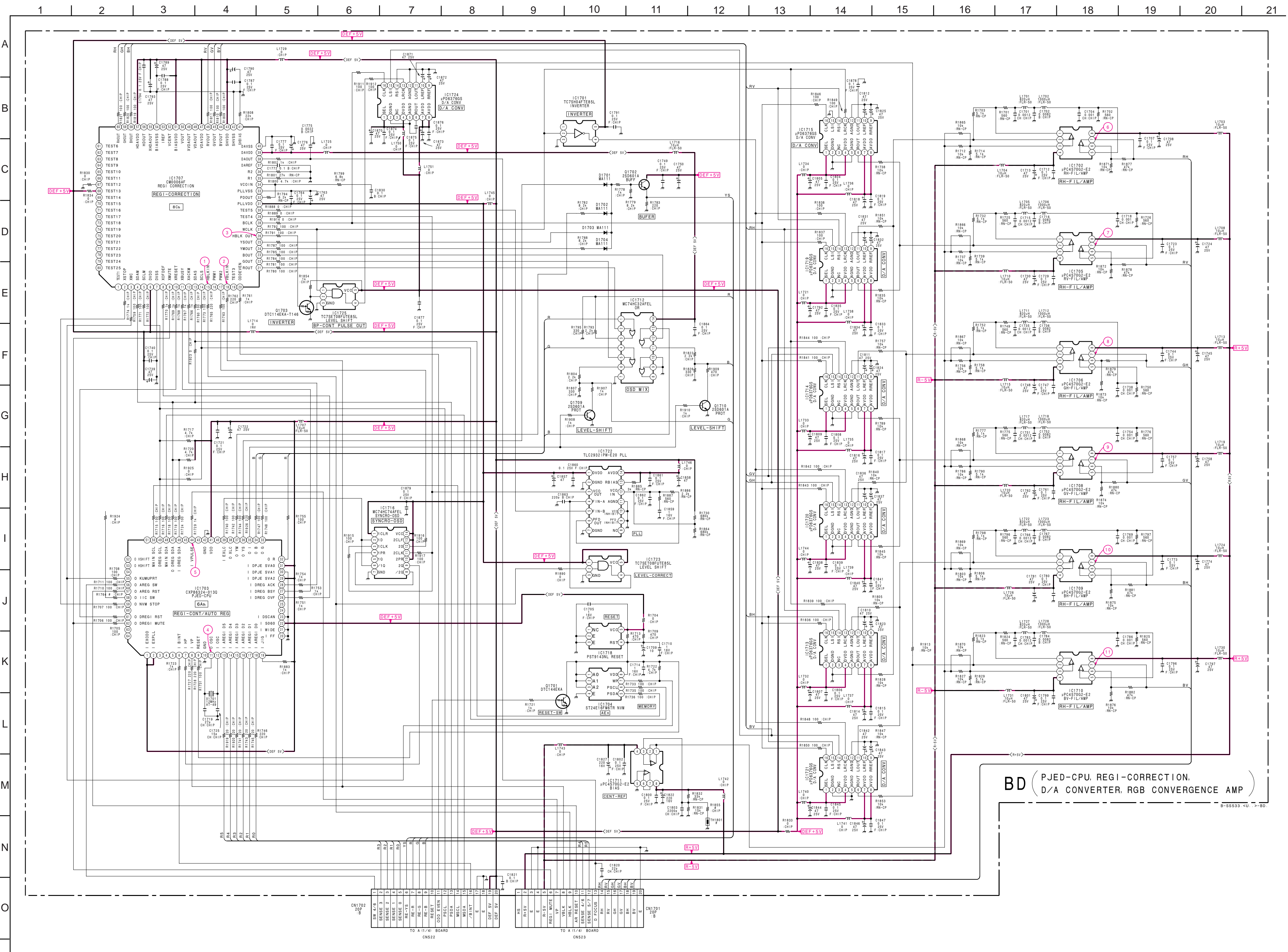
BD BOARD IC VOLTAGE LIST

REF.	PIN NO.	VOL.	REF.	PIN NO.	VOL.	REF.	PIN NO.	VOL.	REF.	PIN NO.	VOL.
IC1701	2	2.5	IC1707	8	5.0		6	0		5	GND
	3	GND		2	4.9		7	0		6	1.5
	4	2.5		3	4.9		8	5.0		7	5.0
	5	B		4	+	IC1712	1	0		8	5.0
	6	0		5	-		2	0		9	2.2
IC1702	2	0.8		6	5.0		3	0		10	2.2
	3	0.7		7	GND		4	0		11	1.6
	4	-5.0		8	0		5	0		12	GND
	5	0		9	4.7		6	0		13	2.5
	6	0		10	5.0		7	GND		14	2.7
	7	-0.2		11	0		8	GND		15	2.4
	8	5.0		12	5.0		9	GND		16	2.4
IC1703	1	5.0		13	+		10	0	IC1720	1	5.0
	2	5.0		14	+		11	0		2	GND
	6	4.9		15	0.6		12	0		3	0
	7	0.7		16	0.7		13	0		4	5.0
	8	0.3		17	0.4	IC1713	1	0		5	1.6
	9	5.0		18	0.4		2	GND		6	1.6
	10	GND		19	2.5		3	GND		7	5.0
	11	2.3		20	0		4	5.0		8	5.0
	12	2.2		21	0		5	GND		9	2.2
	13	0.8		22	0		6	1.6		10	2.2
	14	0.8		23	0		7	1.6		11	1.5
	15	0.9		24	0		8	5.0		12	2.4
	16	1.3		25	0		9	2.2		13	2.5
	17	0.8		26	0.5		10	2.2		14	2.4
	18	0.9		27	2.5		11	1.5		15	2.7
	19	5.0		28	2.4		12	GND		16	2.4
	20	GND		29	2.3		13	2.5		17	5.0
	21	GND		30	0		14	2.4	IC1721	1	5.0
	22	5.0		31	5.0		15	2.7		2	GND
	23	0		32	0.3		16	2.4		3	5.0
	24	0		33	GND		17	2.4		4	5.0
	25	0		34	0.2	IC1714	1	5.0		5	1.5
	26	0		35	1.3		2	GND		6	5.0
	27	5.0		36	1.7		3	5.0		7	5.0
	28	5.0		37	3.3		4	5.0		8	5.0
	29	5.0		38	2.4		5	GND		9	2.1
	30	GND		39	5.0		6	1.6		10	2.2
	31	6.0		40	GND		7	5.0		11	1.5
	32	0		41	0		8	5.0		12	GND
	33	0		42	GND		9	2.2		13	2.5
	34	0		43	5.0		10	2.2		14	2.6
	35	0		44	2.7		11	1.5		15	2.7
	36	0		45	2.6		12	GND		16	2.4
	37	2.8		46	2.6	IC1722	1	5.0		13	2.5
	38	2.2		47	5.0		2	GND		14	2.6
	39	2.2		48	5.0		3	2.3		15	2.3
	40	5.0		49	5.0		4	0.8		16	2.4
	41	5.0		50	5.0		5	2.5		17	5.0
	42	GND		51	5.0		6	2.4		18	2.4
	43	5.0		52	5.0		7	5.0		19	2.4
	44	4.7		53	5.0	IC1715	1	5.0		20	2.4
	45	4.9		54	GND		2	GND		21	5.0
	46	4.9		55	5.0		3	GND		22	5.0
	47	3.1		56	0		4	5.0		23	5.0
	48	3.5		57	0		5	GND		24	5.0
	49	4.9		58	2.7		6	2.4		25	5.0
	50	3.7		59	3.1		7	GND		26	5.0
	51	5.0		60	2.4		8	1.5		27	5.0
	52	0		61	0		9	5.0		28	5.0
	53	0		62	0		10	GND		29	5.0
	54	0		63	0		11	GND		30	5.0
	55	3.7		64	5.0		12	2.4		31	2.4
	56	5.0	IC1708	1	0		13	3.2		32	5.0
	57	1.9		2	0		14	5.0		33	5.0
	58	5.0		3	0.8		15	1.6		34	5.0
	59	5.0		4	-5.0		16	0		35	5.0
	60	3.5		5	0		17	2.5		36	5.0
	61	4.9		6	0		18	2.6		37	5.0
	62	4.7		7	0		19	4.8		38	5.0
	63	0		8	0		20	0.8		39	5.0
	64	0		9	0		21	5.0		40	5.0
	65	0		10	0		22	5.0		41	5.0
	66	0		11	0		23	5.0		42	5.0
	67	0		12	0		24	5.0		43	5.0
	68	0		13	0		25	5.0		44	5.0
	69	0		14	0		26	5.0		45	5.0
	70	0		15	0		27	5.0		46	5.0
	71	0		16	0		28	5.0		47	5.0
	72	0		17	0		29	5.0		48	5.0
	73	0		18	0		30	5.0		49	5.0
	74	0		19	0		31	5.0		50	5.0
	75	0		20	0		32	5.0		51	5.0
	76	0		21	0		33	5.0		52	5.0
	77	0		22	0		34	5.0		53	5.0
	78	0		23	0		35	5.0		54	5.0
	79	0		24	0		36	5.0		55	5.0
	80	0		25	0		37	5.0		56	5.0
	81	0		26	0		38	5.0		57	5.0
	82	0		27	0		39	5.0		58	5.0
	83	0		28	0		40	5.0		59	5.0
	84	0		29	0		41	5.0		60	5.0
	85	0		30	0		42	5.0		61	5.0
	86	0		31	0		43	5.0		62	5.0
	87	0		32	0		44	5.0		63	5.0
	88	0		33	0		45	5.0		64	5.0
	89	0		34	0		46	5.0		65	5.0
	90	0		35	0		47	5.0		66	5.0
	91	0		36	0		48	5.0		67	5.0
	92	0		37	0		49	5.0		68	5.0
	93	0		38	0		50	5.0		69	5.0
	94	0		39	0		51	5.0		70	5.0
	95	0		40	0		52	5.0		71	5.0
	96	0		41	0		53	5.0		72	5.0
	97	0		42	0		54	5.0		73	5.0
	98	0		43	0		55	5.0		74	5.0
	99	0		44	0		56	5.0		75	5.0
	100	0		45	0		57	5.0		76	5.0

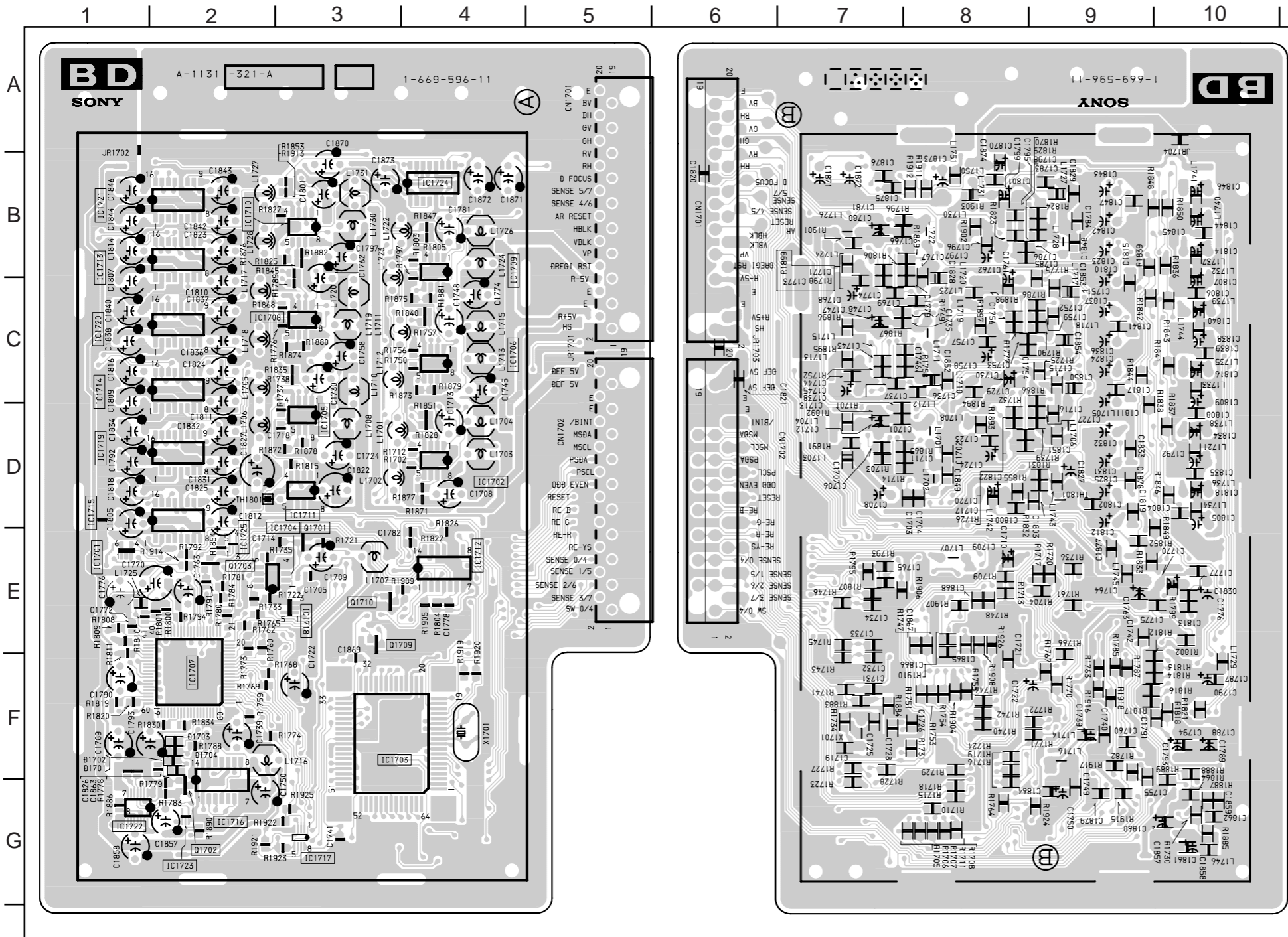
BD BOARD TRANSISTOR VOLTAGE LIST

REF.	PIN NO.	VOL.
Q1701	B	0
	E	GND
	C	5.0
Q1702	B	0
	C	5.0
	B	0.4
Q1703	E	GND
	B	5.0
Q1709	E	GND
	C	0
Q1710	E	GND
	C	0

All voltages are in V.



- BD Board -



< Component Side >

< Conductor Side >

BD BOARD

DIODE		*
D1701	F-2	Ⓞ
D1702	F-2	Ⓞ
D1703	F-2	Ⓞ
D1704	F-2	Ⓞ
TRANSISTOR		*
Q1701	E-3	Ⓞ
Q1702	G-2	Ⓞ
Q1703	E-2	Ⓞ
Q1709	E-3	Ⓞ
Q1710	E-3	Ⓞ
IC		
IC1701	E-1	
IC1702	D-4	
IC1703	F-3	
IC1704	E-2	
IC1705	D-3	
IC1706	C-4	
IC1707	F-2	
IC1708	C-3	
IC1709	B-4	
IC1710	B-3	
IC1711	D-3	
IC1712	E-4	
IC1713	B-2	
IC1714	C-2	
IC1715	D-2	
IC1716	G-2	
IC1718	E-3	
IC1719	D-2	
IC1720	C-2	
IC1721	B-2	
IC1722	G-1	
IC1723	G-2	
IC1724	B-4	
IC1725	E-2	

NOTE:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

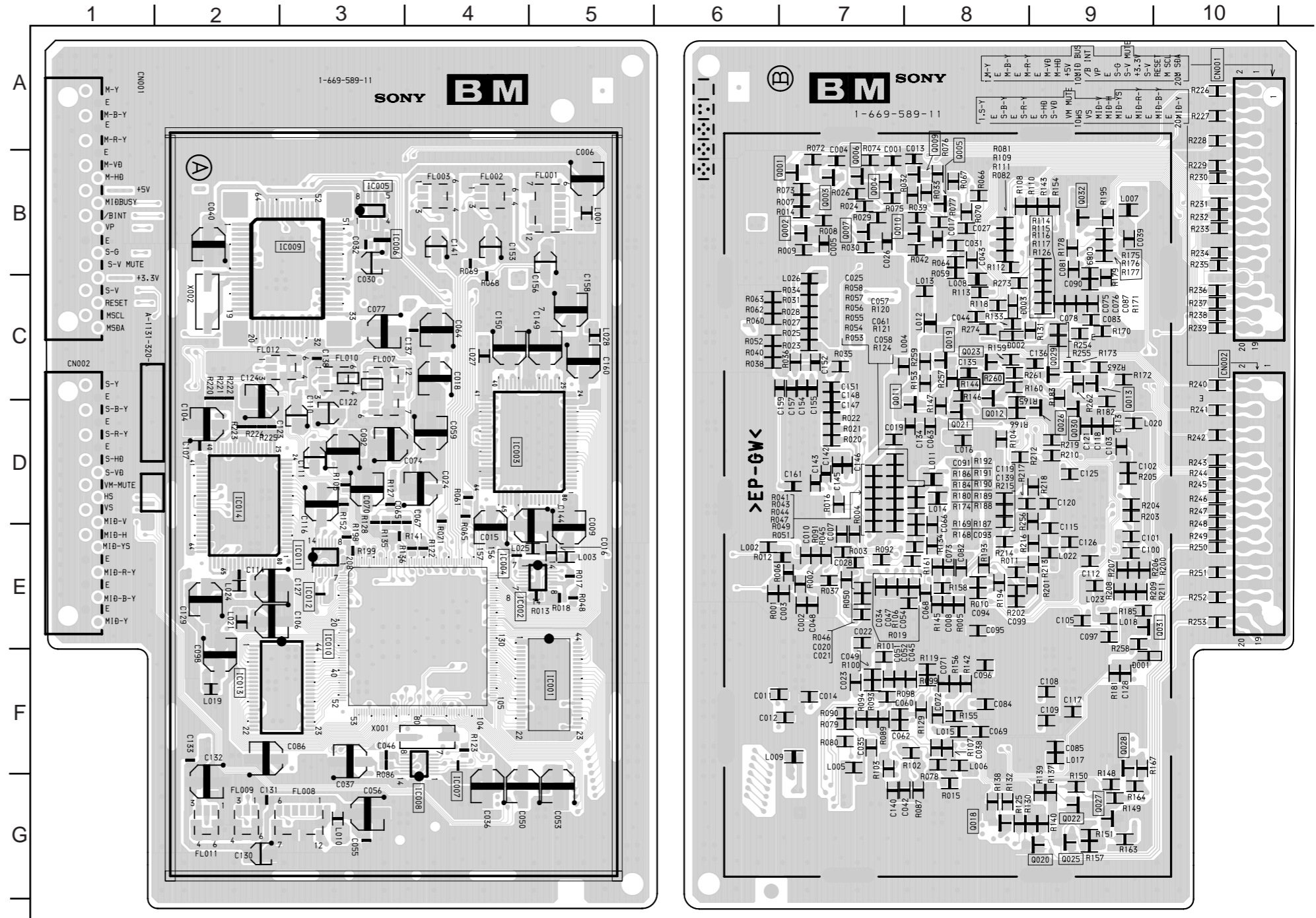
- BM Board -

BM BOARD

DIODE *		
D001	F-9	Ⓣ
D002	C-8	Ⓣ
D003	C-8	Ⓣ
TRANSISTOR *		
Q001	B-7	Ⓣ
Q002	B-7	Ⓣ
Q006	B-7	Ⓣ
Q007	B-7	Ⓣ
Q009	B-8	Ⓣ
Q010	B-8	Ⓣ
Q018	G-8	Ⓣ
Q019	C-8	Ⓣ
Q020	G-9	Ⓣ
Q021	D-8	Ⓣ
Q022	G-9	Ⓣ
Q023	C-8	Ⓣ
Q025	G-9	Ⓣ
Q026	D-9	Ⓣ
Q027	G-9	Ⓣ
Q028	F-9	Ⓣ
Q029	C-9	Ⓣ
Q030	D-9	Ⓣ
Q031	E-9	Ⓣ
Q032	B-9	Ⓣ
IC		
IC001	F-5	
IC002	E-5	
IC003	D-4	
IC004	E-4	
IC005	B-3	
IC006	B-3	
IC007	F-4	
IC008	F-4	
IC009	B-3	
IC010	E-4	
IC011	E-3	
IC012	E-3	
IC013	F-2	
IC014	D-2	

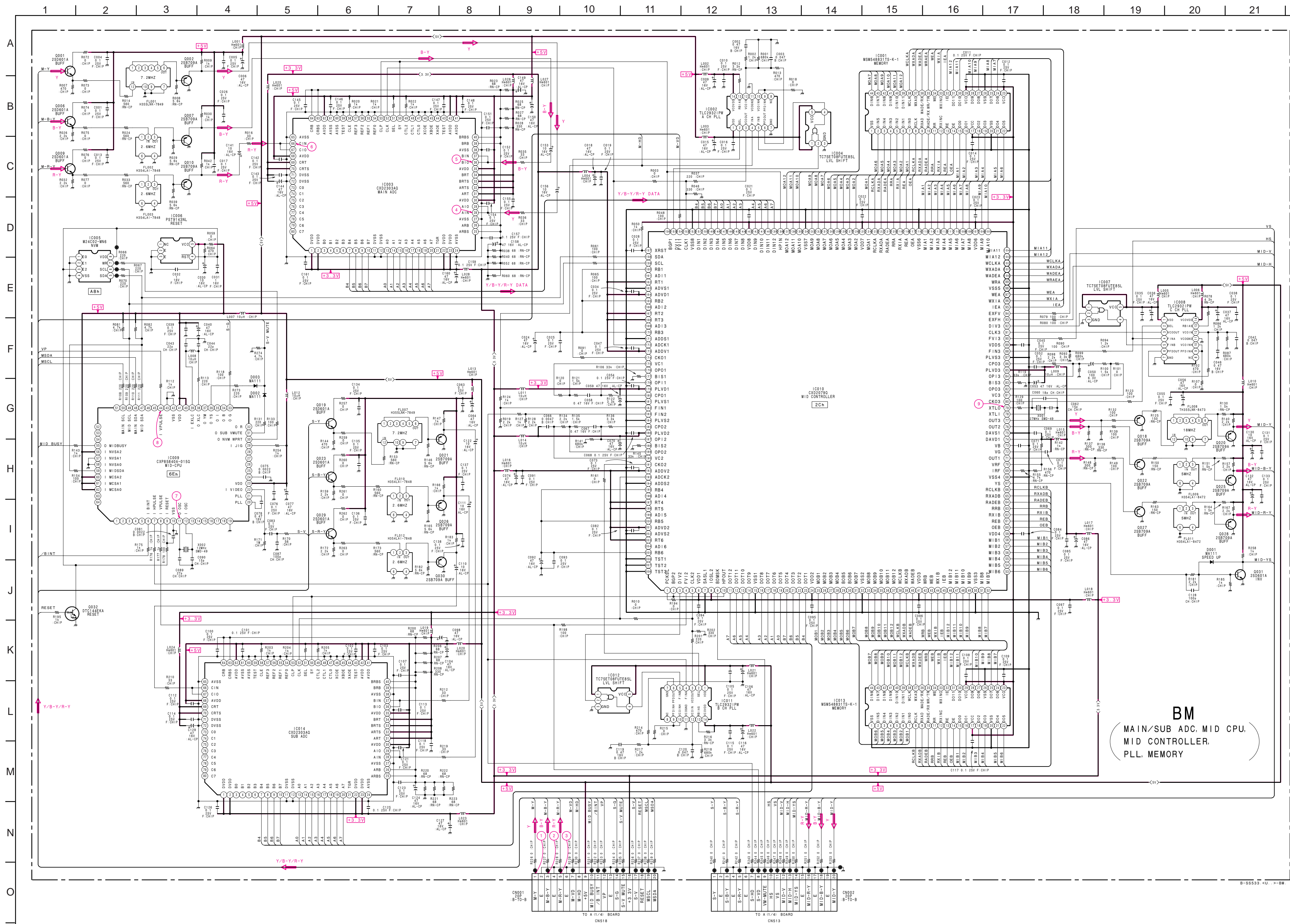
NOTE:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

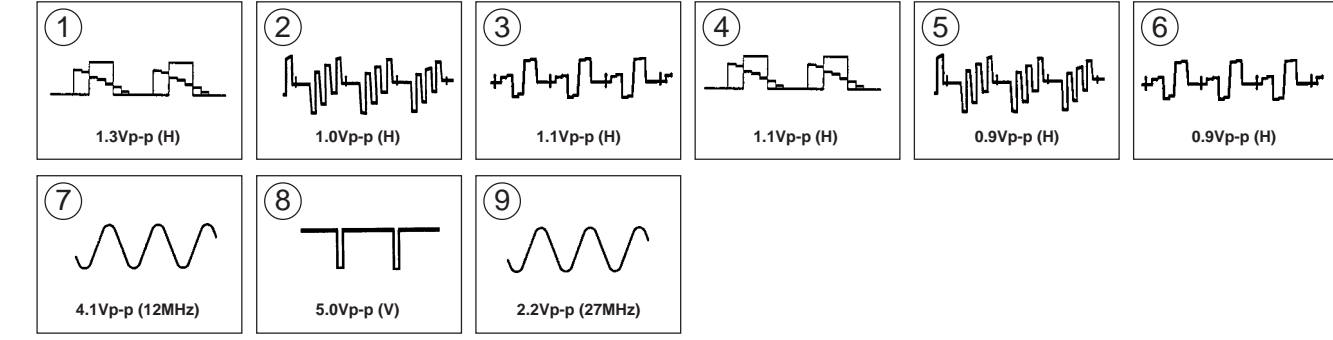


< Component Side >

< Conductor Side >



• BM BOARD WAVEFORMS



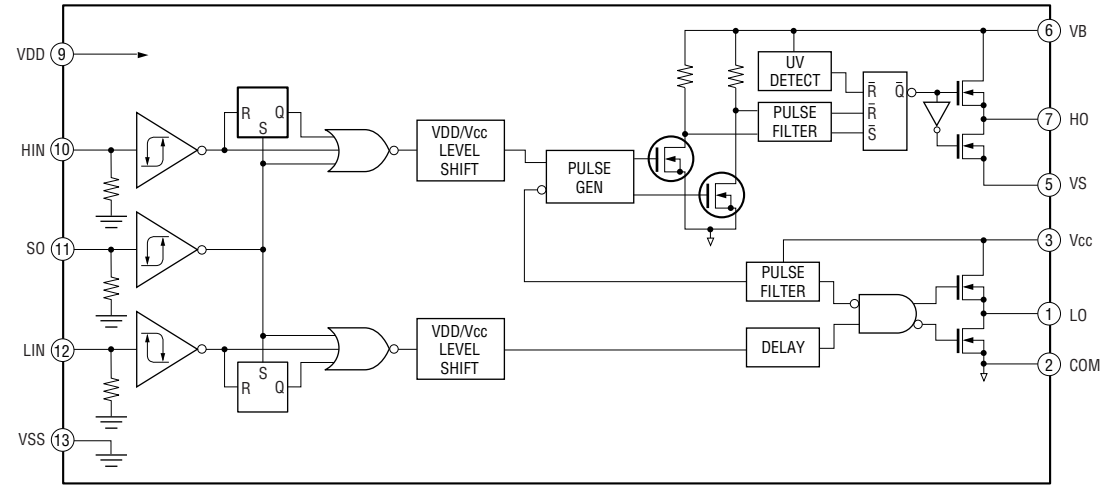
BM BOARD IC VOLTAGE LIST

REF	Pin NO.	VOL	REF	Pin NO.	VOL	REF	Pin NO.	VOL	REF	Pin NO.	VOL	REF	Pin NO.	VOL
IC001	1	GND	IC010	1	GND	IC011	1	GND	IC012	1	GND	IC013	1	GND
IC001	2	0	IC010	2	0	IC011	2	0	IC012	2	0	IC013	2	0
IC001	3	0	IC010	3	0	IC011	3	0	IC012	3	0	IC013	3	0
IC001	4	0	IC010	4	0	IC011	4	0	IC012	4	0	IC013	4	0
IC001	5	0	IC010	5	0	IC011	5	0	IC012	5	0	IC013	5	0
IC001	6	0	IC010	6	0	IC011	6	0	IC012	6	0	IC013	6	0
IC001	7	0	IC010	7	0	IC011	7	0	IC012	7	0	IC013	7	0
IC001	8	1.5	IC010	8	1.5	IC011	8	1.5	IC012	8	1.5	IC013	8	1.5
IC001	9	0	IC010	9	0	IC011	9	0	IC012	9	0	IC013	9	0
IC001	10	0	IC010	10	0	IC011	10	0	IC012	10	0	IC013	10	0
IC001	11	0	IC010	11	0	IC011	11	0	IC012	11	0	IC013	11	0
IC001	12	0	IC010	12	0	IC011	12	0	IC012	12	0	IC013	12	0
IC001	13	0	IC010	13	0	IC011	13	0	IC012	13	0	IC013	13	0
IC001	14	3.3	IC010	14	3.3	IC011	14	3.3	IC012	14	3.3	IC013	14	3.3
IC001	15	0	IC010	15	0	IC011	15	0	IC012	15	0	IC013	15	0
IC001	16	1.7	IC010	16	1.7	IC011	16	1.7	IC012	16	1.7	IC013	16	1.7
IC001	17	3.3	IC010	17	3.3	IC011	17	3.3	IC012	17	3.3	IC013	17	3.3
IC001	18	0	IC010	18	0	IC011	18	0	IC012	18	0	IC013	18	0
IC001	19	1.7	IC010	19	1.7	IC011	19	1.7	IC012	19	1.7	IC013	19	1.7
IC001	20	GND	IC010	20	GND	IC011	20	GND	IC012	20	GND	IC013	20	GND
IC001	21	1.7	IC010	21	1.7	IC011	21	1.7	IC012	21	1.7	IC013	21	1.7
IC001	22	0	IC010	22	0	IC011	22	0	IC012	22	0	IC013	22	0
IC001	23	0	IC010	23	0	IC011	23	0	IC012	23	0	IC013	23	0
IC001	24	1.7	IC010	24	1.7	IC011	24	1.7	IC012	24	1.7	IC013	24	1.7
IC001	25	0	IC010	25	0	IC011	25	0	IC012	25	0	IC013	25	0
IC001	26	GND	IC010	26	GND	IC011	26	GND	IC012	26	GND	IC013	26	GND
IC001	27	0	IC010	27	0	IC011	27	0	IC012	27	0	IC013	27	0
IC001	28	0	IC010	28	0	IC011	28	0	IC012	28	0	IC013	28	0
IC001	29	3.3	IC010	29	3.3	IC011	29	3.3	IC012	29	3.3	IC013	29	3.3
IC001	30	0	IC010	30	0	IC011	30	0	IC012	30	0	IC013	30	0
IC001	31	0	IC010	31	0	IC011	31	0	IC012	31	0	IC013	31	0
IC001	32	3.3	IC010	32	3.3	IC011	32	3.3	IC012	32	3.3	IC013	32	3.3
IC001	33	0	IC010	33	0	IC011	33	0	IC012	33	0	IC013	33	0
IC001	34	0	IC010	34	0	IC011	34	0	IC012	34	0	IC013	34	0
IC001	35	0	IC010	35	0	IC011	35	0	IC012	35	0	IC013	35	0
IC001	36	2.5	IC010	36	2.5	IC011	36	2.5	IC012	36	2.5	IC013	36	2.5
IC001	37	2.5	IC010	37	2.5	IC011	37	2.5	IC012	37	2.5	IC013	37	2.5

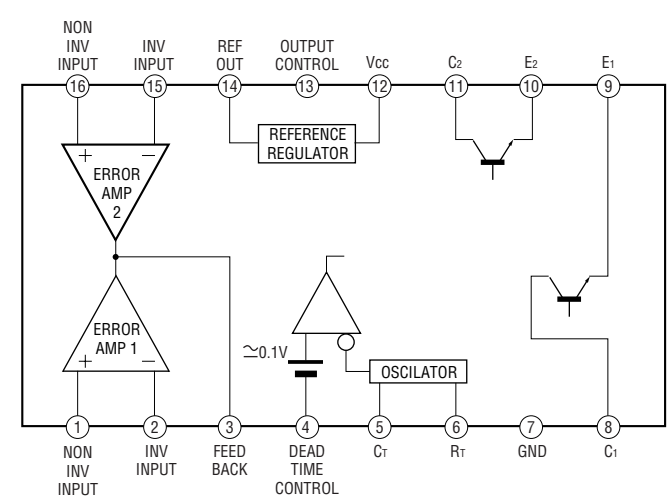
BM BOARD TRANSISTOR VOLTAGE LIST

REF	Pin NO.	VOL	REF	Pin NO.	VOL	REF	Pin NO.	VOL
Q001	B	3.5	Q002	E	2.8	Q006	E	2.6
Q001	E	2.8	Q002	C	5.0	Q006	C	5.0
Q001	C	5.0	Q002	B	3.2	Q006	B	3.2
Q001	B	3.2	Q002	C	GND	Q006	C	GND
Q001	C	GND	Q002	B	3.2	Q006	B	3.2
Q001	B	3.2	Q002	C	GND	Q006	C	GND
Q001	E	2.6	Q002	B	2.3	Q006	B	2.3
Q001	C	5.0	Q002	E	3.0	Q006	E	3.0
Q001	B	2.3	Q002	C	GND	Q006	C	GND
Q001	E	2.6	Q002	B	0.1	Q006	B	0.1
Q001	C	5.0	Q002	E	0.8	Q006	E	0.8
Q001	B	3.2	Q002	C	GND	Q006	C	GND
Q001	E	2.6	Q002	B	0	Q006	B	0
Q001	C	5.0	Q002	E	2.5	Q006	E	2.5
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	1.1	Q006	B	1.1
Q001	C	GND	Q002	E	1.8	Q006	E	1.8
Q001	B	0.1	Q002	C	GND	Q006	C	GND
Q001	E	0.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	3.2	Q002	C	GND	Q006	C	GND
Q001	E	2.6	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C	5.0	Q006	C	5.0
Q001	E	3.0	Q002	B	2.3	Q006	B	2.3
Q001	C	GND	Q002	E	3.0	Q006	E	3.0
Q001	B	1.1	Q002	C	GND	Q006	C	GND
Q001	E	1.8	Q002	B	0.6	Q006	B	0.6
Q001	C	GND	Q002	E	1.2	Q006	E	1.2
Q001	B	0.6	Q002	C	GND	Q006	C	GND
Q001	E	1.2	Q002	B	3.2	Q006	B	3.2
Q001	C	5.0	Q002	E	2.6	Q006	E	2.6
Q001	B	2.3	Q002	C				

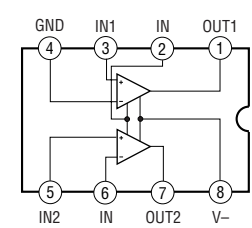
G BOARD : IC6002, 6004 IR2112



G BOARD : IC6003 IR3M02



G BOARD : IC6102 μPC393C



G BOARD IC VOLTAGE LIST

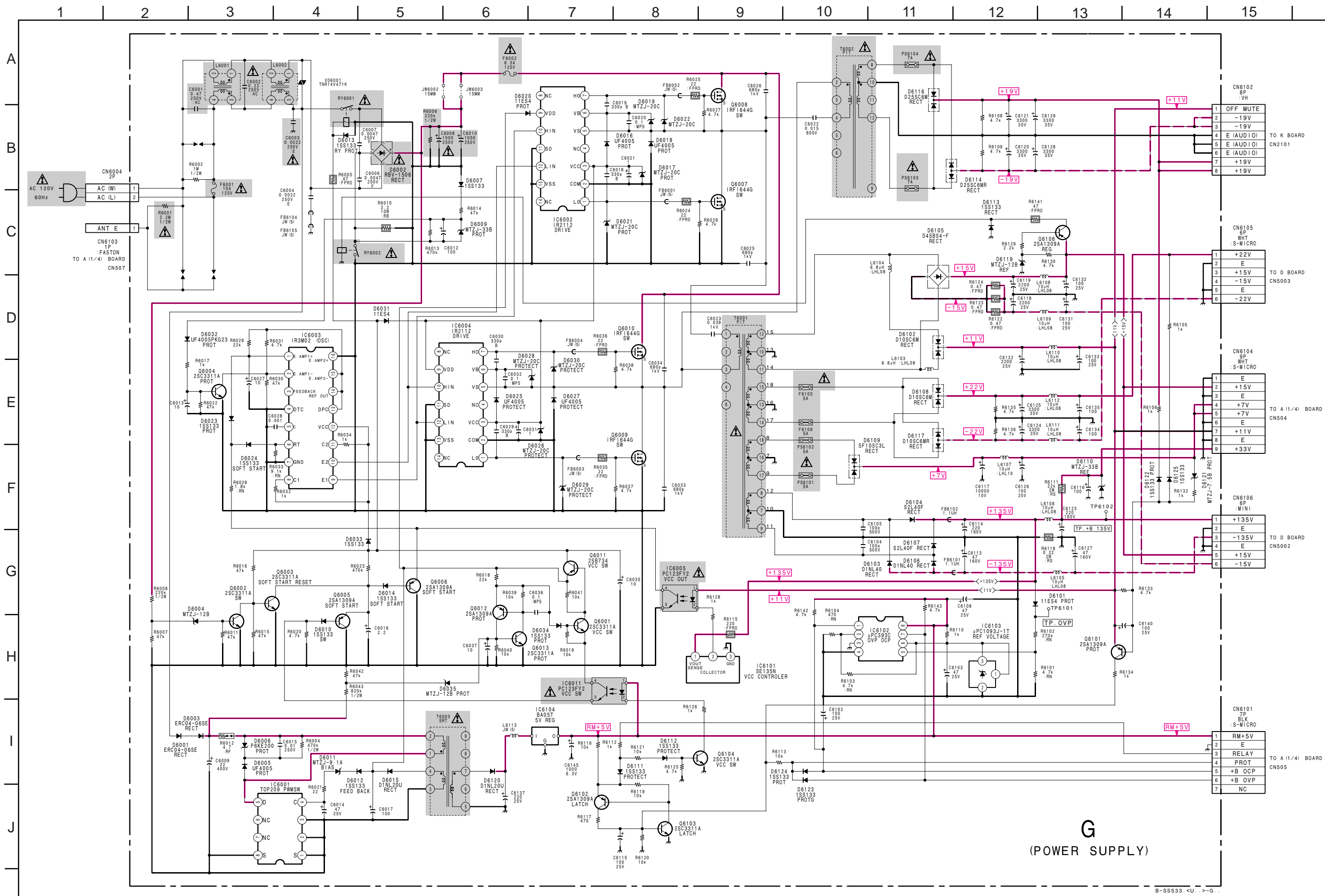
REF.	Pin NO.	VOL.
•IC6001	1	GND
	2	GND
	3	GND
	4	5.8
	5	134.3
•IC6002	2	GND
	3	14.3
	5	70.3
	6	86.9
	7	78.8
	9	14.8
	10	6.1
	11	GND
	12	6.1
	13	GND
•IC6003	1	3.6
	2	4.6
	4	GND
	5	1.6
	6	3.7
	7	GND
	9	6.0
•IC6004	10	6.1
	11	14.2
	12	14.2
	13	5.0
	14	5.0
	15	5.0
	16	GND
	1	6.0
	2	GND
	3	14.3
	5	72.4
	6	86.2
	7	78.1
	9	14.3
	10	6.1
11	GND	
12	6.1	
13	GND	
IC6005	1	12.2
	2	11.1
	3	2.8
	4	GND
IC6011	1	5.0
	2	3.9
	3	12.3
	4	12.1
IC6101	1	134.8
	2	10.6
	3	GND
IC6102	1	0
	2	0.2
	3	GND
IC6103	4	GND
	5	2.2
	6	2.4
	7	0
	8	5.0
	1	2.4
	2	2.4
IC6104	1	7.5
	3	GND
	0	5.0

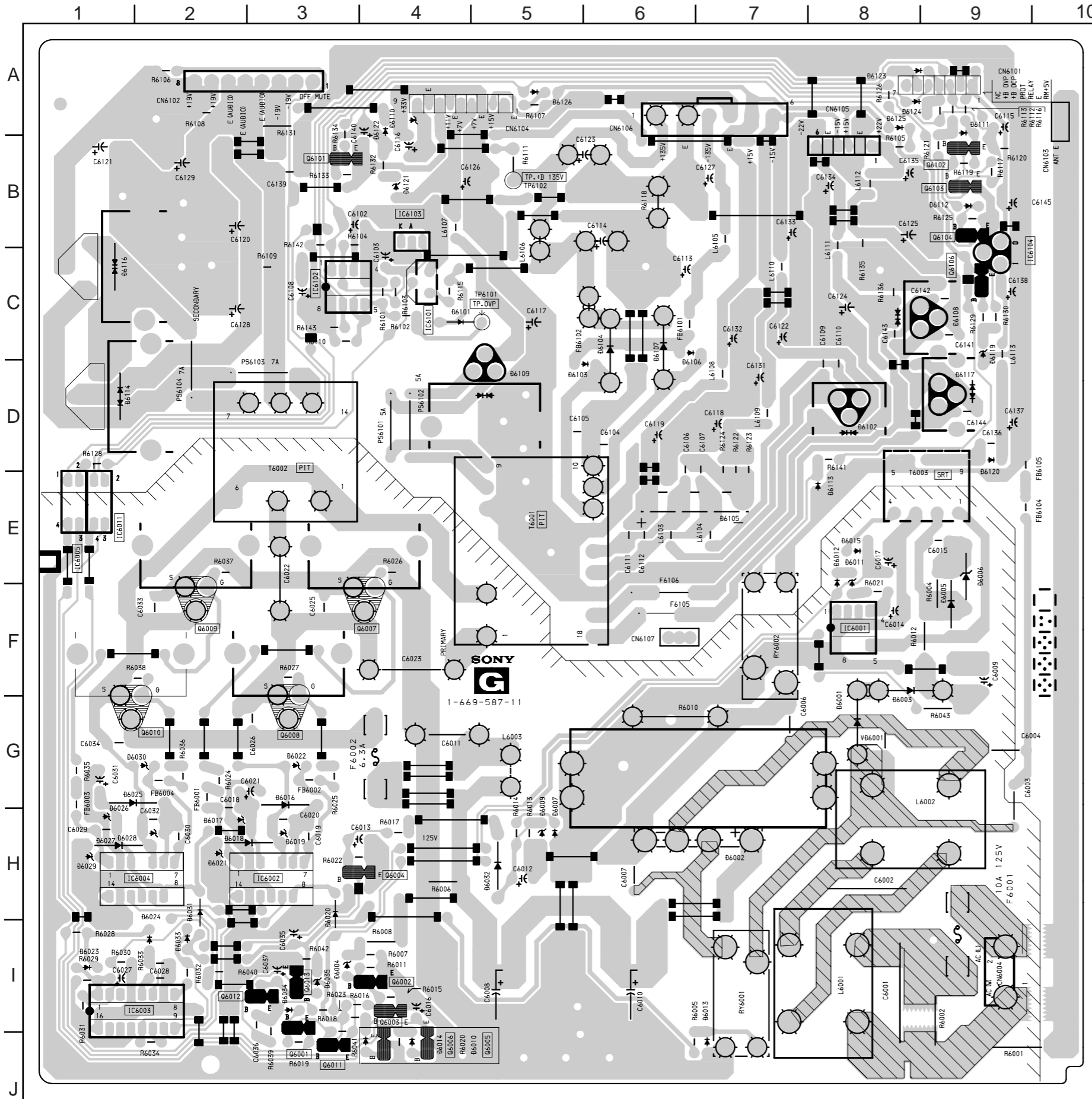
• All voltage are in V.
• The figures in the parentheses are voltage difference from primary side ground.

G BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
•Q6001	B 12.9
	E 12.3
	C 14.3
Q6002	B 0.7
	E 0
	C 0
•Q6003	E GND
	C 12.4
	B 0
•Q6004	E GND
	C 4.6
	B 12.3
•Q6005	E 12.4
	C GND
	D 70.3
•Q6006	E 2.8
	C GND
	D 139.8
•Q6008	G 76.0
	S 70.3
	D 70.8
•Q6009	G 76.0
	D 6.0
	S GND
•Q6010	D 140.6
	G 78.4
	S 70.8
•Q6011	B 14.3
	E 15.0
	C 15.0
•Q6012	B 13.4
	E 12.4
	C 0
•Q6013	E GND
	C 13.4
	B 12.2
Q6101	E 12.2
	C 0
	B 5.0
Q6102	E 5.0
	C 0.1
	B 0
Q6103	E GND
	C 5.0
	B 0.7
Q6104	E GND
	C 14.0
	B 14.0
Q6106	E 14.8
	C 14.5
	B 0

• All voltage are in V.
• The figures in the parentheses are voltage difference from primary side





G BOARD

DIODE		*		
D6001	G-8	-	D6110	A-4
D6002	H-8	-	D6111	A-9
D6003	H-8	-	D6112	B-9
D6004	I-3	-	D6113	E-8
D6005	F-9	-	D6114	D-1
D6006	E-9	-	D6116	C-1
D6007	H-5	-	D6117	D-9
D6009	H-5	-	D6119	C-9
D6010	J-4	-	D6120	D-9
D6011	E-8	-	D6121	B-4
D6012	E-8	-	D6122	A-4
D6013	J-7	-	D6123	A-8
D6014	J-4	-	D6124	A-8
D6015	E-8	-	TRANSISTOR *	
D6016	G-3	-	Q6001	I-3
D6017	H-2	-	Q6002	I-4
D6018	H-2	-	Q6003	I-4
D6019	H-3	-	Q6004	H-3
D6020	H-3	-	Q6005	J-4
D6021	H-2	-	Q6006	J-4
D6022	G-3	-	Q6008	G-3
D6023	I-1	-	Q6009	F-2
D6024	I-2	-	Q6010	G-1
D6025	G-1	-	Q6011	J-3
D6026	H-1	-	Q6012	I-3
D6027	H-1	-	Q6013	I-3
D6028	H-2	-	Q6101	B-3
D6029	H-1	-	Q6102	B-9
D6030	G-2	-	Q6103	B-9
D6031	H-2	-	Q6104	B-9
D6032	H-5	-	Q6106	C-9
D6033	I-2	-	IC	
D6034	I-3	-	IC6001	F-8
D6035	I-3	-	IC6002	H-2
D6101	C-4	-	IC6003	I-2
D6102	D-8	-	IC6004	H-2
D6103	D-5	-	IC6005	E-1
D6104	C-6	-	IC6011	E-1
D6105	E-6	-	IC6101	C-4
D6106	C-6	-	IC6102	C-3
D6107	C-6	-	IC6103	B-4
D6108	C-8	-	IC6104	C-9
D6109	D-5	-		

BR (1/2) [UP CONVERTER, TBC,
3CH 8BIT A/D CONVERTER, PLL]

BR (2/2) [UP CONVERTER, 1MB MEMORY]

- BR Board -

BR BOARD

DIODE		*
D301	F-7	⑨
TRANSISTOR		*
Q301	D-9	①
Q302	F-7	①
Q303	C-9	①
Q306	C-9	①
Q308	C-9	①
Q309	B-9	①
Q312	C-9	①
Q314	B-8	①
Q317	B-8	①
Q318	A-8	①
Q319	B-9	①
Q322	A-8	①
Q323	A-9	①
Q325	A-8	①
Q326	A-9	①
Q401	A-9	①
Q402	B-9	①
Q403	B-9	①
IC		*
IC301	D-2	
IC303	F-3	
IC304	B-4	
IC305	F-2	
IC306	E-2	
IC460	D-5	
IC461	E-5	
IC462	E-4	
IC463	C-4	
IC464	F-4	
IC465	F-4	
IC466	F-4	

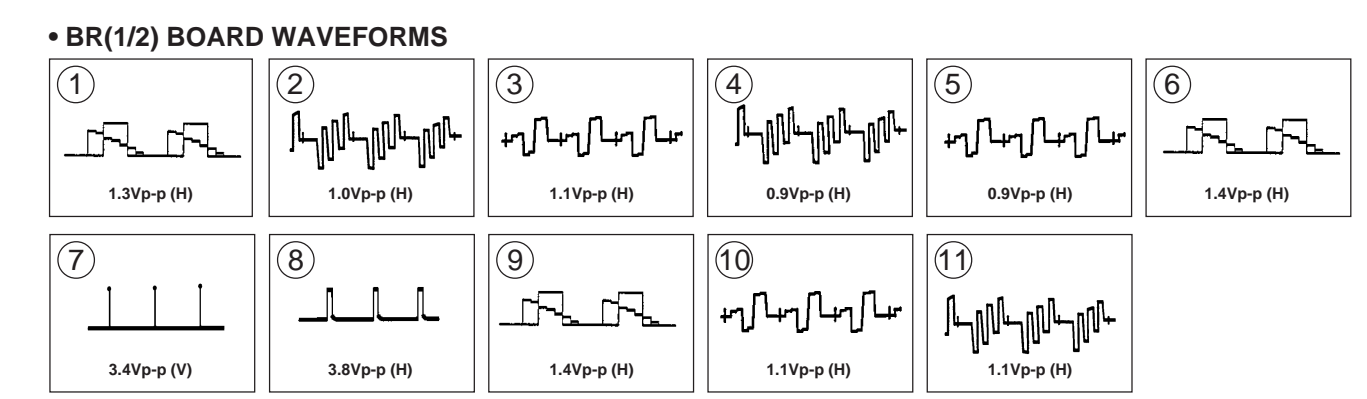
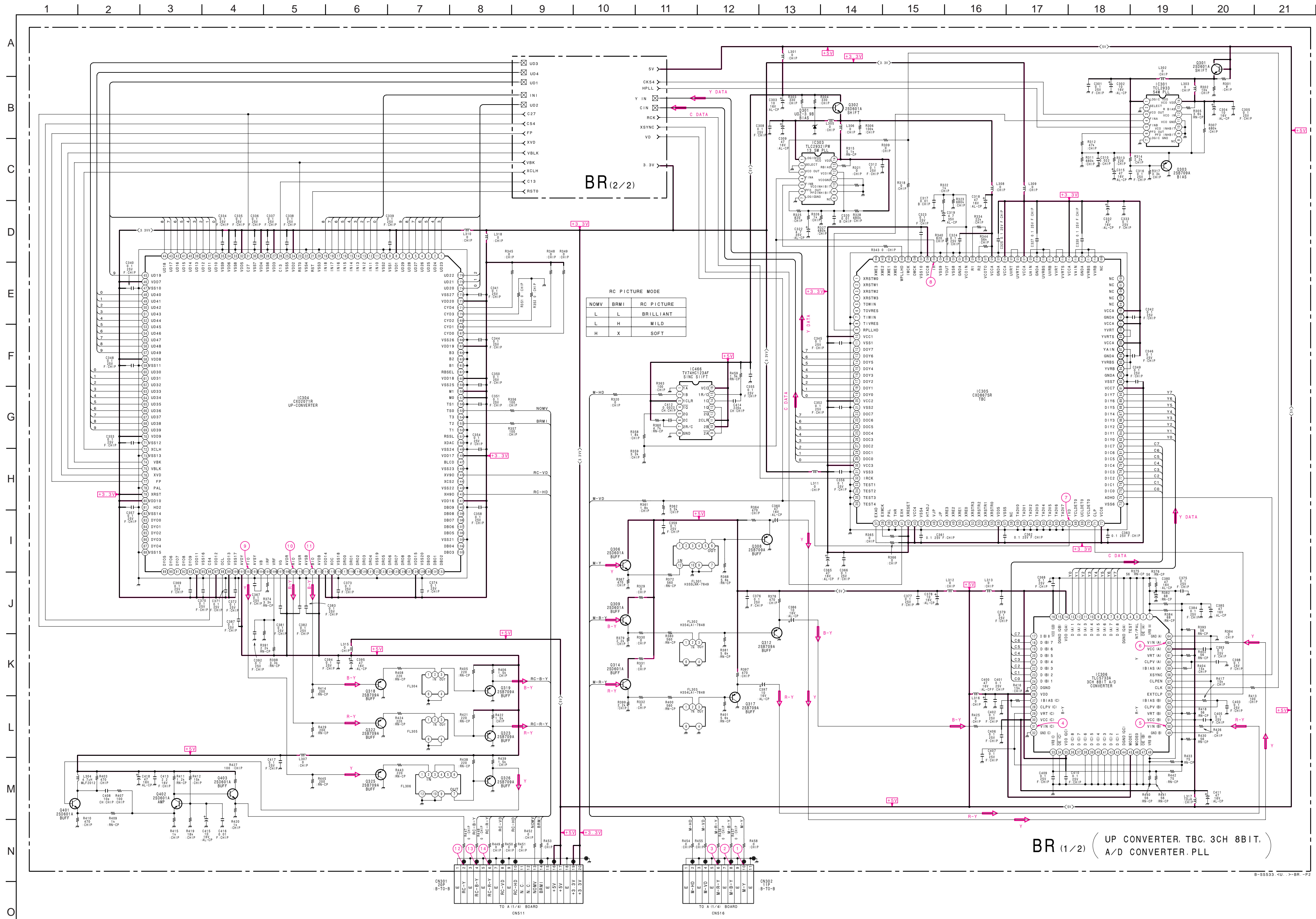


NOTE:

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

< Component Side >

< Conductor Side >



BR (1/2) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC301	1	4.3	IC301	46	3.3	IC305	7	GND	IC306	1	2.7	IC306	1	2.7
IC301	2	GND	IC301	47	GND	IC305	8	GND	IC306	2	GND	IC306	2	GND
IC301	3	1.9	IC301	48	1.0	IC305	9	1.1	IC306	3	3.3	IC306	3	3.3
IC301	4	1.1	IC301	49	1.0	IC305	10	GND	IC306	4	GND	IC306	4	GND
IC301	5	1.7	IC301	50	1.6	IC305	11	GND	IC306	5	GND	IC306	5	GND
IC301	6	2.5	IC301	51	1.5	IC305	12	2.5	IC306	6	1.0	IC306	6	1.0
IC301	7	GND	IC301	52	1.5	IC305	13	2.4	IC306	7	GND	IC306	7	GND
IC301	8	1.9	IC301	53	1.4	IC305	14	3.4	IC306	8	GND	IC306	8	GND
IC301	9	GND	IC301	54	1.4	IC305	15	1.5	IC306	9	GND	IC306	9	GND
IC301	10	GND	IC301	55	1.5	IC305	16	1.5	IC306	10	GND	IC306	10	GND
IC301	11	GND	IC301	56	1.4	IC305	17	1.7	IC306	11	GND	IC306	11	GND
IC301	12	2.5	IC301	57	1.9	IC305	18	1.8	IC306	12	GND	IC306	12	GND
IC301	13	2.4	IC301	58	3.3	IC305	19	1.7	IC306	13	GND	IC306	13	GND
IC301	14	3.4	IC301	59	GND	IC305	20	3.3	IC306	14	GND	IC306	14	GND
IC303	1	3.4	IC303	60	1.2	IC305	21	GND	IC306	15	GND	IC306	15	GND
IC303	2	GND	IC303	61	1.1	IC305	22	2.4	IC306	16	GND	IC306	16	GND
IC303	3	1.6	IC303	62	1.5	IC305	23	1.0	IC306	17	GND	IC306	17	GND
IC303	4	0.6	IC303	63	1.5	IC305	24	1.1	IC306	18	GND	IC306	18	GND
IC303	5	3.3	IC303	64	1.5	IC305	25	1.2	IC306	19	GND	IC306	19	GND
IC303	6	1.4	IC303	65	1.4	IC305	26	1.0	IC306	20	GND	IC306	20	GND
IC303	7	GND	IC303	66	1.4	IC305	27	1.2	IC306	21	GND	IC306	21	GND
IC303	8	GND	IC303	67	1.5	IC305	28	1.1	IC306	22	GND	IC306	22	GND
IC303	9	GND	IC303	68	1.5	IC305	29	1.2	IC306	23	GND	IC306	23	GND
IC303	10	0	IC303	69	1.4	IC305	30	3.3	IC306	24	GND	IC306	24	GND
IC303	11	GND	IC303	70	3.3	IC305	31	0.7	IC306	25	GND	IC306	25	GND
IC303	12	1.4	IC303	71	GND	IC305	32	1.8	IC306	26	GND	IC306	26	GND
IC303	13	2.1	IC303	72	1.7	IC305	33	GND	IC306	27	GND	IC306	27	GND
IC303	14	3.4	IC303	73	GND	IC305	34	GND	IC306	28	GND	IC306	28	GND
IC304	1	1.3	IC304	74	0.1	IC305	35	GND	IC306	29	GND	IC306	29	GND
IC304	2	1.7	IC304	75	0.2	IC305	36	1.8	IC306	30	3.3	IC306	30	3.3
IC304	3	1.7	IC304	76	0.1	IC305	37	3.3	IC306	31	GND	IC306	31	GND
IC304	4	GND	IC304	77	0.8	IC305	38	1.8	IC306	32	GND	IC306	32	GND
IC304	5	0.9	IC304	78	GND	IC305	39	GND	IC306	33	GND	IC306	33	GND
IC304	6	0.5	IC304	79	3.3	IC305	40	GND	IC306	34	GND	IC306	34	GND
IC304	7	0.8	IC304	80	GND	IC305	41	GND	IC306	35	GND	IC306	35	GND
IC304	8	3.3	IC304	81	GND	IC305	42	3.3	IC306	36	1.7	IC306	36	1.7
IC304	9	GND	IC304	82	3.3	IC305	43	3.3	IC306	37	1.8	IC306	37	1.8
IC304	10	GND	IC304	83	3.3	IC305	44	GND	IC306	38	1.6	IC306	38	1.6
IC304	11	3.3	IC304	84	3.3	IC305	45	0.8	IC306	39	1.0	IC306	39	1.0
IC304	12	3.3	IC304	85	GND	IC305	46	1.2	IC306	40	GND	IC306	40	GND
IC304	13	3.4	IC304	86	GND	IC305	47	1.0	IC306	41	1.7	IC306	41	1.7
IC304	14	3.3	IC304	87	1.8	IC305	48	1.0	IC306	42	3.3	IC306	42	3.3
IC304	15	3.3	IC304	88	GND	IC305	49	1.0	IC306	43	3.3	IC306	43	3.3
IC304	16	3.3	IC304	89	3.3	IC305	50	2.9	IC306	44	GND	IC306	44	GND
IC304	17	3.3	IC304	90	3.3	IC305	51	5.0	IC306	45	GND	IC306	45	GND
IC304	18	3.3	IC304	91	GND	IC305	52	3.3	IC306	46	1.0	IC306	46	1.0
IC304	19	3.3	IC304	92	GND	IC305	53	3.3	IC306	47	GND	IC306	47	GND
IC304	20	GND	IC304	93	3.3	IC305	54	2.5	IC306	48	1.7	IC306	48	1.7
IC304	21	GND	IC304	94	3.3	IC305	55	3.3	IC306	49	GND	IC306	49	GND
IC304	22	GND	IC304	95	GND	IC305	56	1.6	IC306	50	GND	IC306	50	GND
IC304	23	0.2	IC304	96	1.8	IC305	57	2.0	IC306	51	5.0	IC306	51	5.0
IC304	24	3.3	IC304	97	3.3	IC305	58	1.2	IC306	52	0.7	IC306	52	0.7
IC304	25	GND	IC304	98	1.8	IC305	59	2.0	IC306	53	2.5	IC306	53	2.5
IC304	26	1.8	IC304	99	3.3	IC305	60	2.0	IC306	54	2.5	IC306	54	2.5
IC304	27	3.3	IC304	100	GND	IC305	61	1.7	IC306	55	3.3	IC306	55	3.3
IC304	28	GND	IC304	101	5.0	IC305	62	GND	IC306	56	1.6	IC306	56	1.6
IC304	29	3.3	IC304	102	0.5	IC305	63	GND	IC306	57	GND	IC306	57	GND
IC304	30	GND	IC304	103	GND	IC305	64	GND	IC306	58	1.0	IC306	58	1.0
IC304	31	1.8	IC304	104	0.5	IC305	65	1.2	IC306	59	GND	IC306	59	GND
IC304	32	3.3	IC304	105	2.0	IC305	66	1.2	IC306	60	2.5	IC306	60	2.5
IC304	33	GND	IC304	106	2.0	IC305	67	0.2	IC306	61	1.7	IC306	61	1.7
IC304	34	3.3	IC304	107	5.0	IC305	68	1.2	IC306	62	5.0	IC306	62	5.0
IC304	35	GND	IC304	108	5.0	IC305	69	1.2	IC306	63	0.9	IC306	63	0.9
IC304	36	1.7	IC304	109	1.0	IC305	70	3.3	IC306	64	GND	IC306	64	GND
IC304	37	1.8	IC304	110	GND	IC305	71	3.3	IC306	65	GND	IC306	65	GND
IC304	38	1.6	IC304	111	GND	IC305	72	3.3	IC306	66	1.5	IC306	66	1.5
IC304	39	1.3	IC304	112	1.0	IC305	73	GND	IC306	67	0.2	IC306	67	0.2
IC304	40	1.6	IC304	113	3.3	IC305	74	0.1	IC306	75	0.2	IC306	75	0.2
IC304	41	1.6	IC304	114	3.3	IC305	75	0.2	IC306	76	0.2	IC306	76	0.2
IC304	42	1.7	IC304	115	3.3	IC305	76	0.1	IC306	77	0.2	IC306	77	0.2
IC304	43	0.9	IC304	116	GND	IC305	77	0.1	IC306	78	0.2	IC306	78	0.2
IC304	44	0.5	IC304	117	GND	IC305	78	0.1	IC306	79	0.2	IC306	79	0.2
IC304	45	0.8	IC304	118	GND	IC305	79	0.1	IC306	80	0.2	IC306	80	0.2
			IC306	81	GND	IC306	81	GND	IC306	81	GND	IC306	81	GND
			IC306	82	GND	IC306	82	GND	IC306	82	GND	IC306	82	GND
			IC306	83	GND	IC306	83	GND	IC306	83	GND	IC306	83	GND
			IC306	84	GND	IC306	84	GND	IC306	84	GND	IC306	84	GND
			IC306	85	GND	IC306	85	GND	IC306	85	GND	IC306	85	GND
			IC306	86	GND	IC306	86	GND	IC306	86	GND	IC306	86	GND
			IC306	87	GND	IC306	87	GND	IC306	87	GND	IC306	87	GND
			IC306	88	GND	IC306	88	GND	IC306	88	GND	IC306	88	GND
			IC306	89	GND	IC306	89	GND	IC306	89	GND	IC306	89	GND
			IC306	90	GND	IC306	90	GND	IC306	90	GND	IC306	90	GND
			IC306	91	GND	IC306	91	GND	IC306	91	GND	IC306	91	GND
			IC306	92	GND	IC306	92	GND	IC306	92	GND	IC306	92	GND
			IC306	93	GND	IC306	93	GND	IC306	93	GND	IC306	93	GND
			IC306	94	GND	IC306	94	GND	IC306	94	GND	IC306	94	GND
			IC306	95	GND	IC306	95	GND	IC306	95	GND	IC306	95	GND
			IC306	96	GND	IC306	96	GND	IC306	96	GND	IC306	96	GND
			IC306	97	GND	IC306	97	GND	IC306	97	GND	IC306	97	GND
			IC306	98	GND	IC306	98	GND	IC306	98	GND	IC306	98	GND
			IC306	99	GND	IC306	99	GND	IC306	99	GND	IC306	99	GND
			IC306	100	GND	IC306	100	GND	IC306	100	GND	IC306	100	GND

All voltages are in V. Pin numbers which are not described are not used.

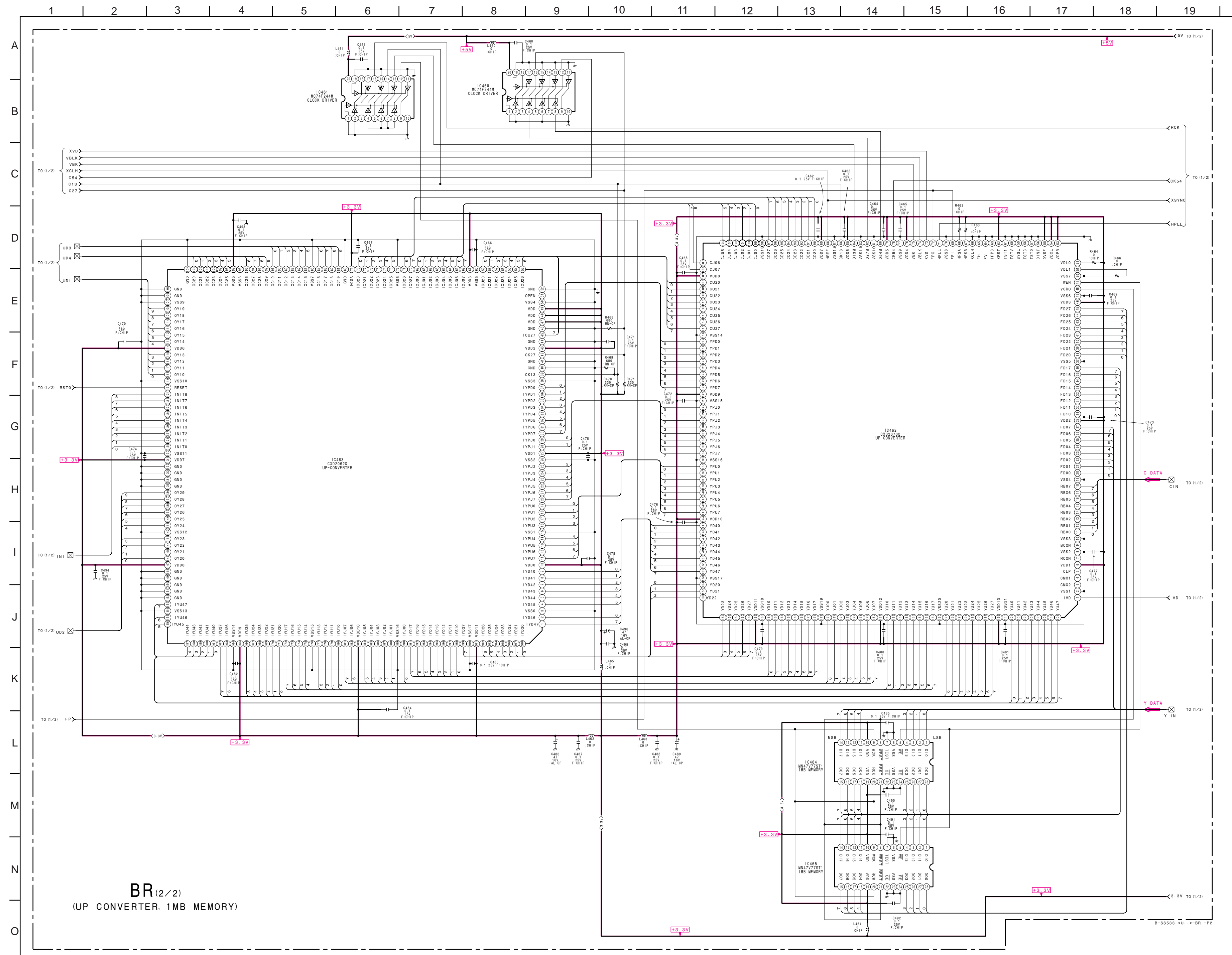
BR (1/2) BOARD TRANSISTOR VOLTAGE LIST

REF.	Pin	VOL.	REF.	Pin	VOL.	REF.	Pin	VOL.	REF.	Pin	VOL.
Q301	B	5.0	Q302	E	3.4	Q303	E	2.5	Q304	E	2.5
Q301	E	4.3	Q302	B	3.2	Q303	C	0	Q304	B	3.2
Q301	C	5.0	Q302	C	5.0	Q303	B	3.5	Q304	C	5.0
Q301	B	5.0	Q302	C	5.0	Q303	C	0	Q304	C	5.0
Q301	C	5.0	Q302	B	3.2	Q303	B	3.5	Q304	B	3.2
Q301	B	5.									

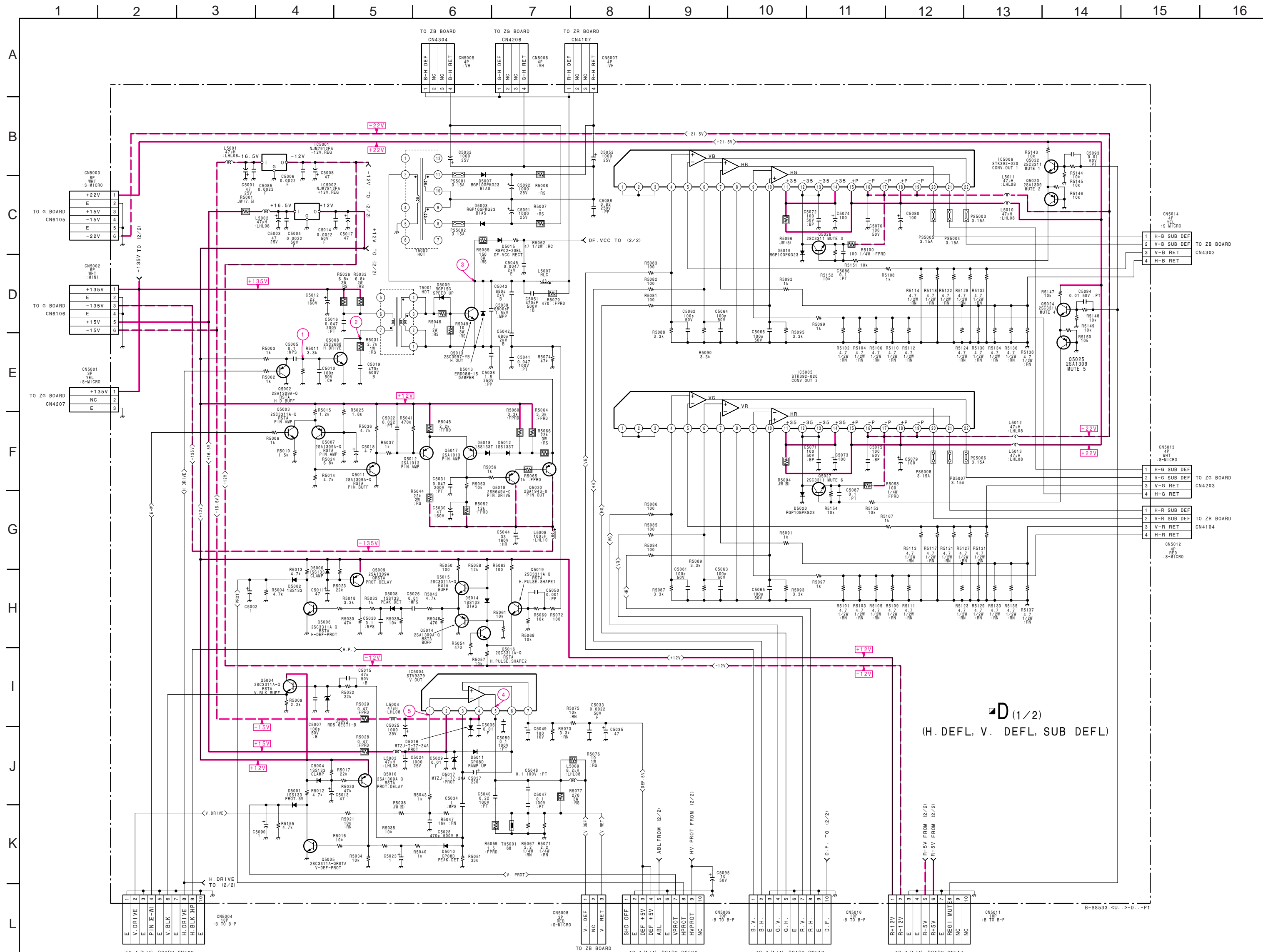
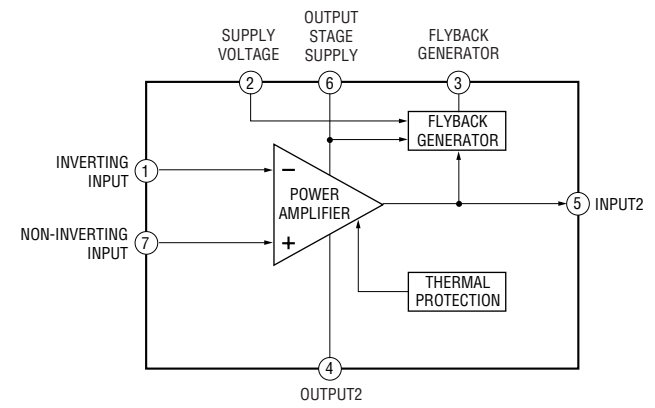
BR (2/2) BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC460	1	GND		60	GND		144	3.3		181	0		101	1.8		183	3.3
	2	GND		61	GND		145	1.7		182	0		102	1.0		184	0
	4	1.7		62	3.3		146	1.8		20	0		103	1.0		185	3.3
	6	GND		63	GND		147	1.4		21	0		104	GND		186	0.1
	8	1.8		64	GND		148	0.1		22	0		105	GND		187	1.4
	10	GND		65	GND		149	3.3		23	3.3		106	GND		188	1.8
	11	GND		66	GND		150	0		24	0.1		107	GND		189	GND
	12	1.8		69	3.4		151	0		25	1.4		108	0.8		190	1.7
	13	GND		70	GND		152	0		26	GND		109	0.5		191	0
	15	GND		71	1.7		153	GND		27	3.3		110	0.9		192	0
	16	1.8		72	1.7		154	1.6		28	1.8		111	1.7		193	0
	17	GND		73	3.3		155	1.8		29	1.7		112	1.6		194	3.3
	19	GND		74	0.2		156	1.4		30	1.8		113	1.8		195	0.1
	20	5.0		75	0.1		157	0		31	0		114	3.3		196	1.4
IC461	1	GND		76	3.3		158	3.3		32	0		115	1.3		197	1.7
	2	GND		77	GND		159	0		33	3.3		116	1.6		198	1.8
	4	1.8		78	1.9		160	0		34	0		117	1.8		199	0
	6	1.8		79	3.3		161	0		35	1.4		118	0		200	GND
	7	1.8		80	1.8		162	3.3		36	1.8		119	GND		201	3.3
	8	1.8		81	GND		163	GND		37	1.7		120	3.3		202	0
	10	GND		82	1.7		164	1.7		38	GND		121	3.3		203	0
	11	GND		83	GND		165	1.8		39	1.7		122	3.3		204	3.3
	12	1.8		84	1.6		166	1.4		40	GND		123	3.3		205	0
	13	GND		85	3.3		167	GND		41	GND		124	3.3		206	1.4
	14	1.7		86	1.7		168	3.3		42	1.8		125	3.3		207	1.8
	15	GND		87	GND		169	0		43	3.3		126	3.3		208	1.6
	16	1.8		88	1.7		170	0		44	GND		127	3.3	IC464	1	1.8
	17	GND		89	3.3		171	0		45	2.3		128	3.3		2	1.6
	19	GND		90	1.2		172	GND		46	GND		129	3.3		3	1.6
	33	3.3		91	1.1		173	1.7		47	GND		130	GND		4	1.6
	34	0.8		92	1.2		174	1.8		48	3.3		131	3.3		5	0.1
IC462	1	GND		93	1.0		175	1.4		49	3.3		132	GND		6	GND
	6	3.3		94	1.1		176	0.1		50	GND		133	GND		7	GND
	8	GND		95	1.1		177	3.3		52	GND		134	GND		8	3.4
	10	GND		96	1.0		178	0		53	1.1		135	GND		9	2.0
	11	1.2		97	2.3		179	0		54	1.1		136	0.8		10	3.3
	12	1.1		98	GND		180	0		55	1.1		137	0.5		11	1.8
	13	1.2		99	1.2		181	3.3		56	1.1		138	0.9		12	0.8
	14	1.0		100	1.1		182	1.7		57	1.1		139	1.8		13	0.5
	15	1.2		101	1.1		183	1.8		58	1.1		140	1.7		14	0.8
	16	1.1		102	1.0		184	1.4		59	1.2		141	1.7		15	0.8
	17	1.0		103	1.1		185	0.1		60	GND		142	GND		16	0.6
	18	2.3		104	1.1		186	3.3		61	3.3		143	1.3		17	0.9
	19	GND		105	1.0		187	0		62	2.3		144	1.7		18	1.8
	20	1.7		106	2.3		188	0		63	1.0		145	1.7		19	3.3
	21	1.8		107	3.3		189	0		64	1.01		146	1.6		20	2.0
	22	1.5		108	1.2		190	GND		65	1.1		147	3.3		21	3.3
	23	0.1		109	1.1		191	1.6		66	1.0		148	GND		22	GND
	24	3.3		110	1.1		192	1.8		67	1.1		149	GND		23	GND
	25	0.8		111	1.0		193	1.4		68	1.1		150	GND		24	GND
	26	0.6		112	1.1		194	0.1		69	1.2		151	GND		25	1.7
	27	0.8		113	1.1		195	3.3		70	2.3		152	GND		26	1.7
	28	3.3		114	1.0		196	0		71	1.0		153	0		27	1.6
	29	1.7		115	2.3		197	0		72	GND		154	GND		28	1.8
	30	1.8		116	GND		198	0		73	1.1	IC465	1	1.8			
	31	1.5		117	1.7		199	3.3		74	1.1		155	0		2	1.6
	32	0.1		118	1.8		200	GND		75	1.0		156	3.3		3	1.7
	33	3.3		119	1.4		201	1.7		76	1.2		157	0.1		4	1.6
	34	0.8		120	0		202	1.7		77	1.1		158	1.4		5	0.1
	35	0.6		121	3.3		203	1.4		78	1.2		159	1.7		6	GND
	36	1.0.1		122	0		204	0.1		79	3.3		160	1.7		7	GND
	37	GND		123	0		205	3.3		80	GND		161	1.7		8	3.3
	38	1.7		124	0		206	0		81	1.9		162	0		9	1.9
	39	1.8		125	3.3		207	0		82	1.4		163	0		10	3.3
	40	1.5		126	GND		208	0		83	1.5		164	GND		11	1.8
	41	1.6		127	1.7	IC463	1	0		84	1.5		165	3.3		11	1.8
	42	3.2		128	1.8		2	0		85	GND		166	0		12	0.8
	43	0.9		129	1.4		3	GND		86	1.4		167	3.9		13	0.6
	44	0.6		130	0.1		4	0		87	1.5		168	0.1		14	0.8
	45	0.8		131	3.3		5	3.3		88	1.5		169	1.4		15	0.8
	46	3.3		132	0		6	0.1		89	1.5		170	1.8		16	0.6
	47	GND		133	0		7	1.4		90	1.1		171	1.6		17	0.9
	48	3.3		134	0		8	1.8		91	1.2		172	0		18	1.8
	49	0.2		135	GND		9	1.7		92	1.9		173	0		19	3.3
	50	GND		136	0		10	3.3		93	1.4		174	0		20	1.9
	53	3.3		137	3.3		11	0		94	1.5		175	3.3		21	3.3
	54	3.3		138	1.4		12	0.1		95	1.4		176	GND		22	GND
	55	3.3		139	0.1		13	0.1		96	GND		177	0.1		23	GND
	56	GND		140	3.2		14	3.2		97	3.3		178	1.4		24	GND
	57	GND		141	0.1		15	GND		98	1.4		179	1.8		25	1.6
	58	GND		142	0.5		16	0.1		99	1.5		180	1.7		26	1.7
	59	GND		143	0		17	1.4		100	1.5		181	0		27	1.6
													182	0		28	1.8

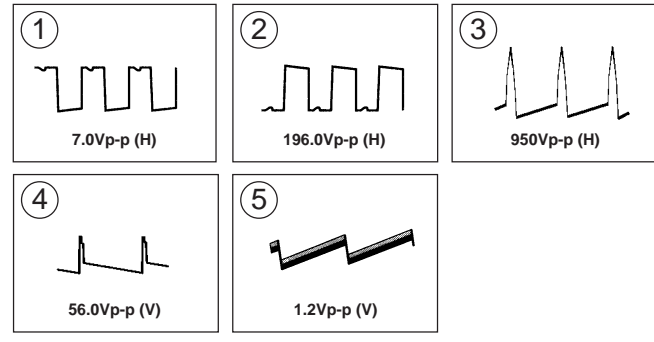
*All voltage are in V.
* Pin numbers which are not described are not used.



D (1/2) BOARD : IC5004 STV9379



• D (1/2) BOARD WAVEFORMS



D (1/2) BOARD IC VOLTAGE LIST

REF.	PIN NO.	VOL.
IC5001	1	-14.8
	2	GND
	3	-11.8
	4	-14.8
IC5002	1	14.6
	2	GND
	3	1.3
	4	14.5
IC5004	1	-13.5
	2	-14.7
	3	0.5
	4	14.5
	5	0
	6	1.2
	7	0
	8	0
	9	0.1
	10	0.1
	11	0
	12	0
IC5005	1	21.8
	2	-20.1
	3	-20.1
	4	21.8
	5	21.8
	6	-22.1
	7	-22.1
	8	21.8
	9	-0.4
	10	0.2
	11	0.1
	12	0.2
IC5006	1	0
	2	0.2
	3	0.1
	4	21.8
	5	-20.2
	6	21.8
	7	0.2
	8	0.1
	9	0.2
	10	0.1
	11	0.2
	12	0.2

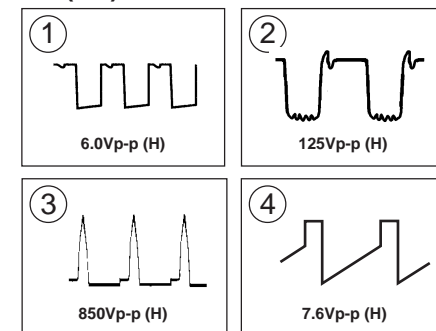
D (1/2) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q5002	B 4.3	Q5015	B 0.8
	E 3.7	B 0.8	E 11.9
	C GND	B 0	C 11.9
	B 2.0	B 0	B 0
Q5003	E 1.4	Q5016	E 0
	C 10.0	C 0.3	C 0.3
	B -0.5	B 3.7	B 3.7
	E 0.2	Q5017	E 4.1
Q5004	C 12.0	C -104.8	C -104.8
	B 0.6	B -105.0	B -105.0
	E GND	Q5018	E -111.6
	C 0.1	C -136.5	C -136.5
Q5005	B 0.6	B 0	B 0
	E GND	Q5019	E 0
	C 0.1	C 11.9	C 11.9
	B 9.4	B -110.0	B -110.0
Q5007	E 10.0	Q5020	E -110.8
	C 3.1	C -136.5	C -136.5
	B -3.0	B 1.3	B 1.3
	E GND	Q5022	E 0.7
Q5008	C 91.8	C 0.7	C 0.7
	B 11.9	B GND	B GND
	E 12.0	Q5023	E 0.7
	C 0.8	C 0.6	C 0.6
Q5010	B 11.9	B 1.3	B 1.3
	E 12.0	Q5024	E 0.7
	C 2.1	C 0.7	C 0.7
	B 3.1	B GND	B GND
Q5011	E 3.7	Q5025	E 0.7
	C GND	C 0.6	C 0.6
	B 3.7	B -19.5	B -19.5
	E 4.1	Q5026	E -20.2
Q5013	C -95.5	C -20.2	C -20.2
	B -111.1	B -19.5	B -19.5
	E -110.8	Q5027	E -20.2
	C 0.6	C -20.2	C -20.2
Q5014	B 0.3	B -	B -
	E 0.8	B -	B -
	C GND	B -	B -
	C GND	B -	B -

• D BOARD * MARK LIST

REF.	MARK	REF.	MARK
R5007	KP-53XBR200	KP-61XBR200	
R5008	82 3W RS	39 3W RS	
R5009	82 3W RS	39 3W RS	
R5010	330K RN-CP	39K RN-CP	
R5011	470 RN-CP	1K RN-CP	
R5012	1.2K RN-CP		
R5013	22K RN-CP	12K RN-CP	
R5014	2.2K RN-CP	6.8K RN-CP	
R5015	680 RN-CP	1K RN-CP	

• D (2/2) BOARD WAVEFORMS



D (2/2) BOARD IC VOLTAGE LIST

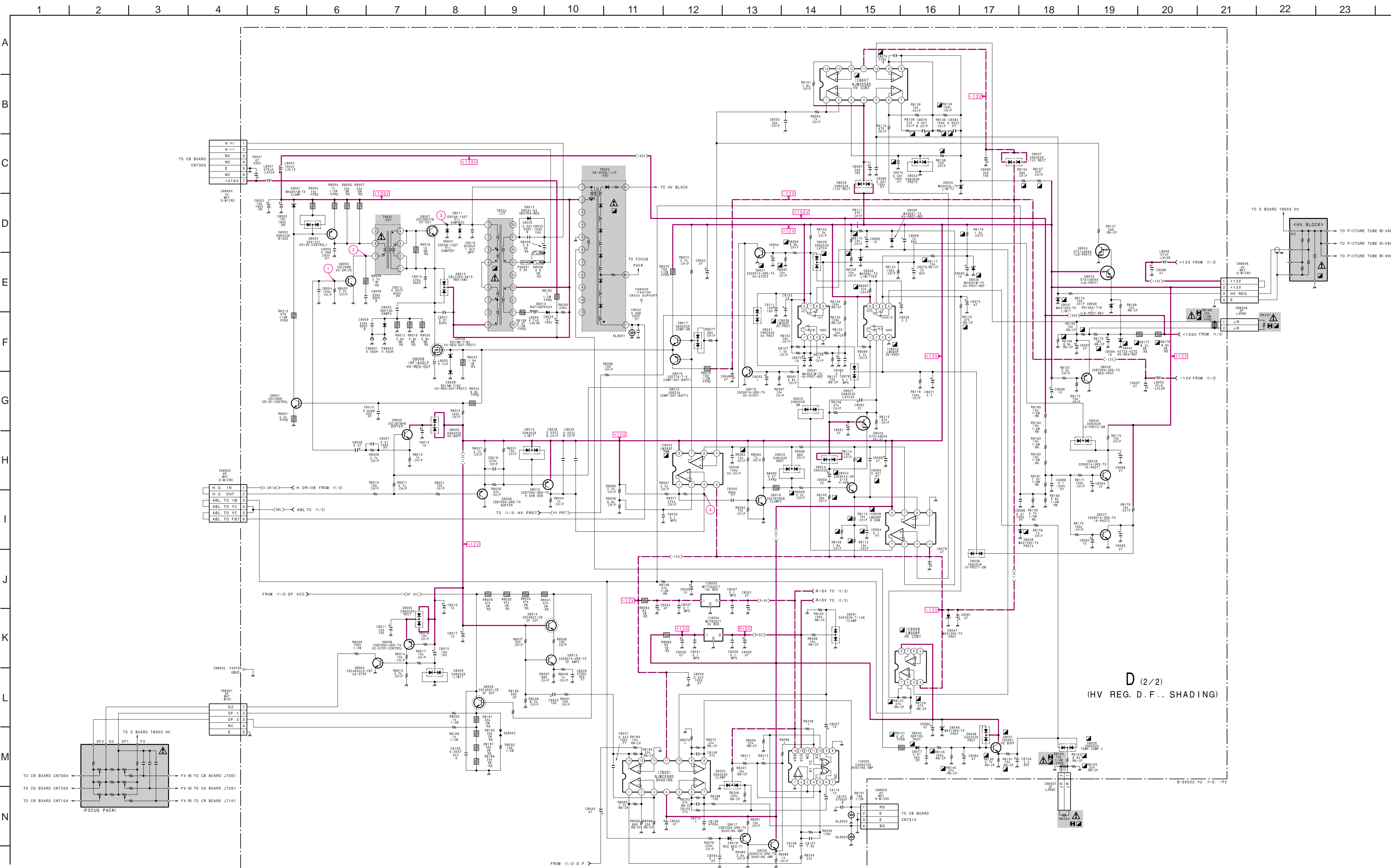
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC8001	1	0		3	
	2	0		4	GND
	3	0		5	0
	4	11.8		6	4.8
	5	0.5		7	11.8
	6	0.5		8	11.8
	7	11.6	IC8007	1	0.5
	8	0		2	0.4
	9	0		3	0.4
	10	0		4	11.1
	11	11.8		5	7.4
	12	GND		6	7.4
	13	0		7	7.4
	14	0		8	0.4
IC8002	1	1.8		9	7.3
	2	8.8		10	7.3
	3	8.3		11	-11.1
	4	-11.8		12	3.2
	5	11.6		13	3.2
	6	2.1		14	3.2
	7	1.7	IC8008	1	0.1
	8	11.8		2	9.5
	9	0		3	7.4
	10	-5.0		4	-11.8
IC8003	1	-7.8		3	7.4
	G	GND		4	-11.8
IC8004	1	8.0		5	GND
	G	GND		7	1.6
	0	5.0		8	11.8
IC8005	1	GND	IC8009	1	0.2
	2	0		2	7.1
	3	0		3	4.8
	4	0		4	-11.8
	5	0	IC8010	1	11.8
	6	0		2	6.0
	7	0		3	0
	8	0		4	GND
	9	0		5	7.2
	10	0		6	7.1
	11	1.3		7	0
	13	5.0		8	11.8
	14	-5.0		9	0
IC8006	1	0		8	11.8
	2	11.7		C	11.1
	3	0		D	3.3
	4	0		E	4.1
	5	0		C	1.9

*All voltage are in V.
*Pin numbers which are not described are not used.

D (2/2) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q8001	B 2.2	Q8018	B 5.0
	E 1.7		E GND
	C 132.8		C 1.3
	B 132.6		B 0.2
Q8002	E 133.3	Q8019	E GND
	C 62.0		C 4.2
	B -1.9		B 1.9
Q8003	E GND	Q8020	E 1.4
	C 61.7		C 11.7
	B 0		B 0.2
Q8004	E GND	Q8021	E GND
	C 455.0		C 4.2
	B 4.2		B 0.4
Q8005	E 3.6	Q8022	E 0.8
	C 11.4		C 1.8
	B 5.0		B 11.8
Q8006	E 5.0	Q8023	E 11.7
	C 0		C 6.0
	B 55.9		B 0
Q8007	E 55.8	Q8024	E GND
	C 136.8		C 11.7
	D 55.8		B 11.8
Q8008	G 1.6	Q8025	E 9.5
	S 0.1		C 0
	B 133.1		B 9.8
Q8009	E 133.0	Q8026	E 10.2
	C GND		C GND
	B 11.3		B 0.6
Q8010	E 11.7	Q8027	E GND
	C 8.3		C 0.1
	B 5.0		B 0.6
Q8013	E 4.4	Q8028	E GND
	C 11.2		C 0.1
	B 11.8		B 670.0
Q8014	E 11.2	Q8030	E 668.0
	C 670.0		C 845.0
	B 1.6		B 7.9
Q8015	E 1.6	Q8031	E 7.3
	C -11.3		C 11.8
	B 1.7		B 1.6
Q8016	E 1.6		C 11.1
	C 11.1		D 3.3
	D 4.1		E 4.1
Q8017	C 1.9		C 1.9

All voltages are in V.

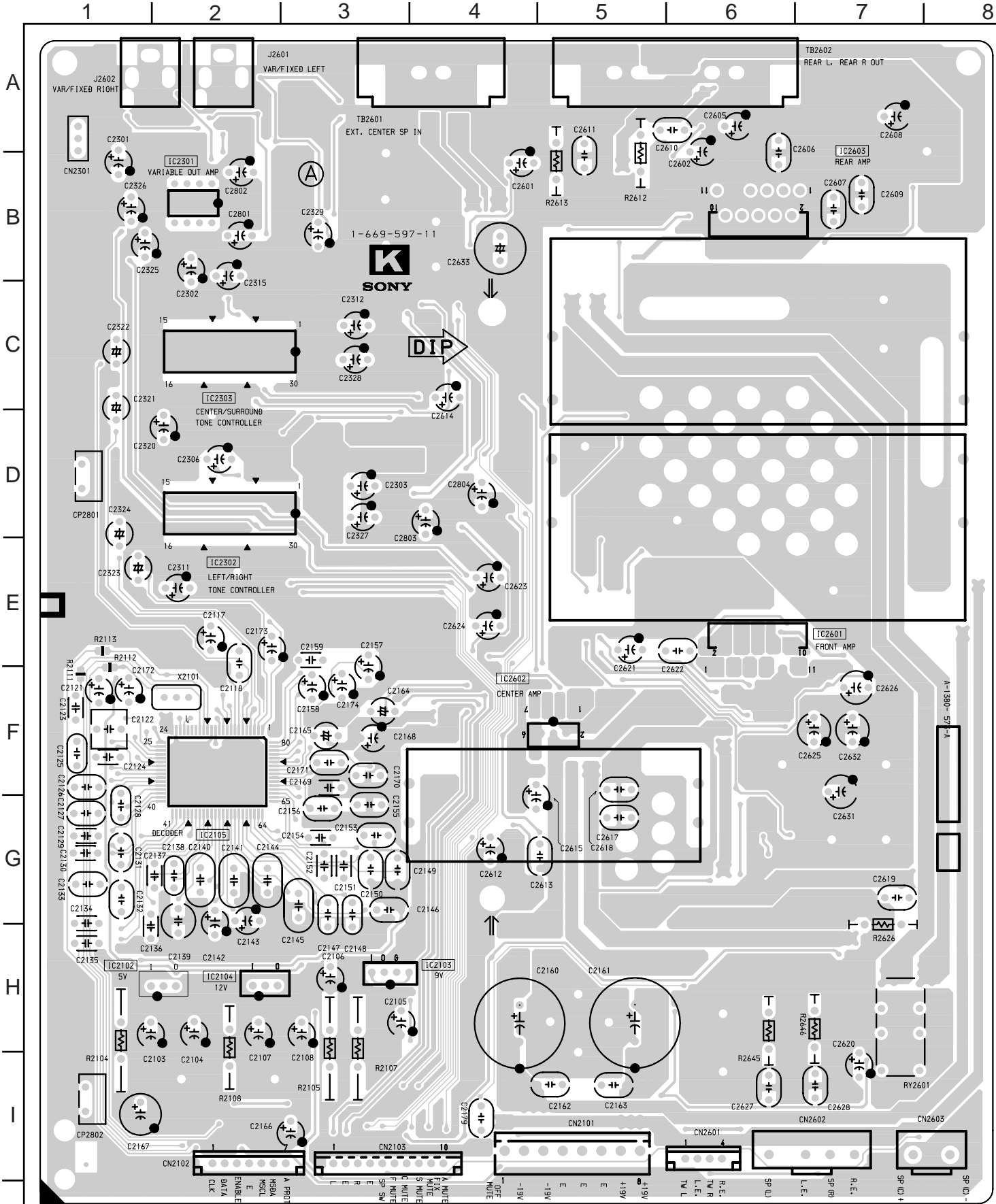


D (2/2)
(HV REG. D.F. SHADING)

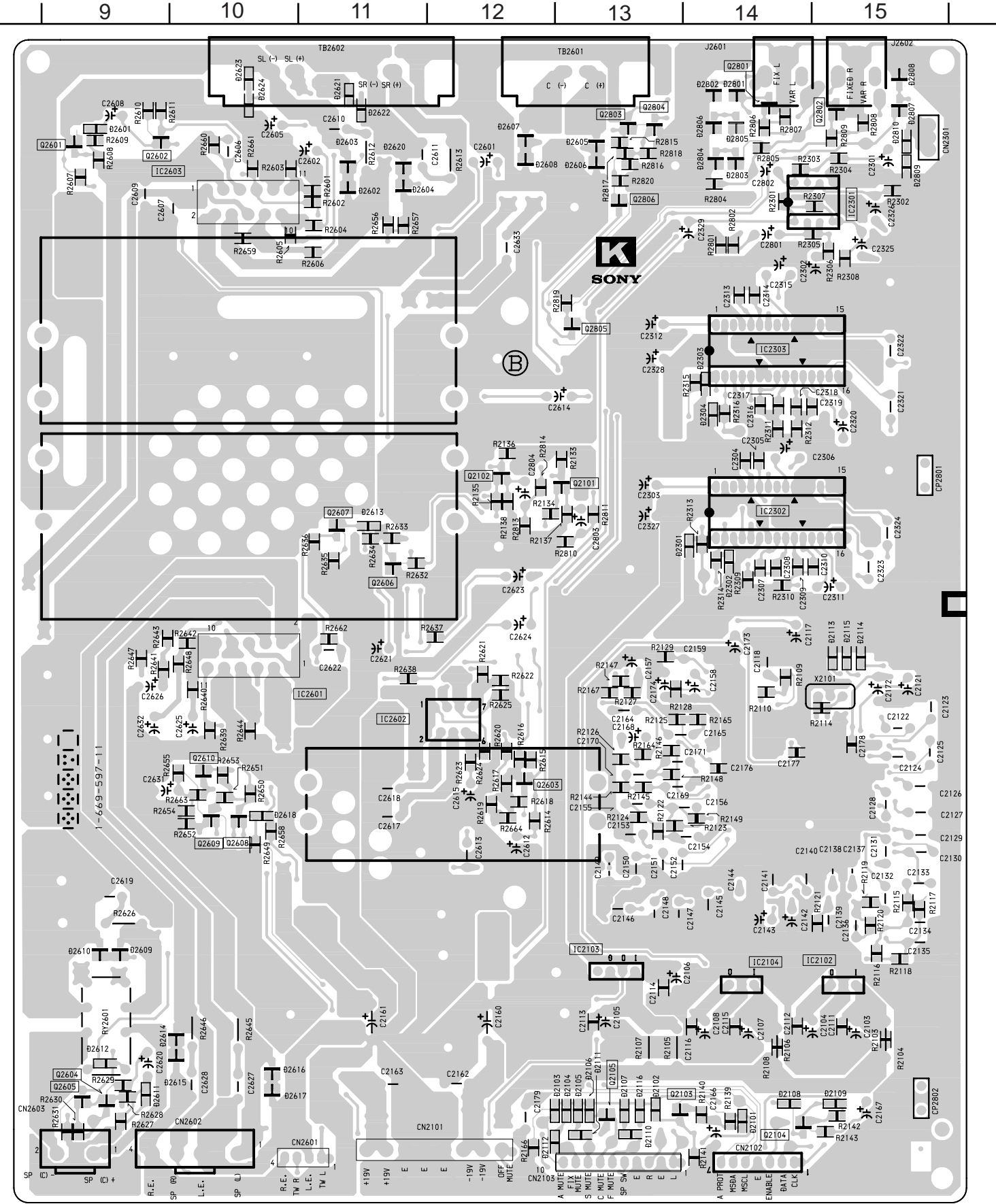
- K Board - **K** [AUDIO AMP, TONE CONTROL, PROLOGIC DECODER]

K BOARD			
DIODE			
D2101	I-14	D2803	B-14
D2102	I-13	D2804	B-14
D2103	I-12	D2805	A-14
D2104	I-12	D2806	A-14
D2105	I-13	D2807	A-15
D2106	I-13	D2808	A-15
D2107	I-14		
D2108	I-14		
D2109	I-15		
D2110	I-13		
D2111	I-13		
D2112	I-12		
D2113	E-15		
D2114	E-15		
D2115	E-15		
D2116	I-13		
D2601	A-9		
D2602	B-11		
D2603	B-11		
D2604	B-11		
D2605	A-13		
D2606	A-13		
D2607	A-12		
D2608	A-13		
D2609	H-9		
D2610	H-9		
D2611	I-9		
D2612	I-9		
D2613	D-11		
D2614	H-9		
D2615	I-9		
D2616	I-10		
D2617	I-10		
D2618	G-10		
D2620	I-9		
D2621	A-11		
D2622	A-11		
D2623	A-10		
D2624	A-10		
D2801	A-14		
D2802	A-14		
TRANSISTOR			
Q2101	D-12		
Q2102	D-12		
Q2103	I-13		
Q2104	I-14		
Q2105	I-13		
Q2601	A-9		
Q2602	A-9		
Q2603	F-12		
Q2604	I-9		
Q2605	I-9		
Q2606	E-11		
Q2607	D-11		
Q2608	G-16		
Q2609	G-16		
Q2610	F-10		
Q2801	A-14		
Q2802	A-15		
Q2803	A-13		
Q2804	A-13		
Q2805	C-13		
Q2806	B-13		
IC			
IC2102	H-15, H-2		
IC2103	H-13, H-3		
IC2104	H-14, H-2		
IC2105	F-2		
IC2301	B-14, B-2		
IC2302	D-14, D-2		
IC2303	C-14, C-2		
IC2601	E-10, E-6		
IC2602	F-12, F-5		
IC2603	B-10		

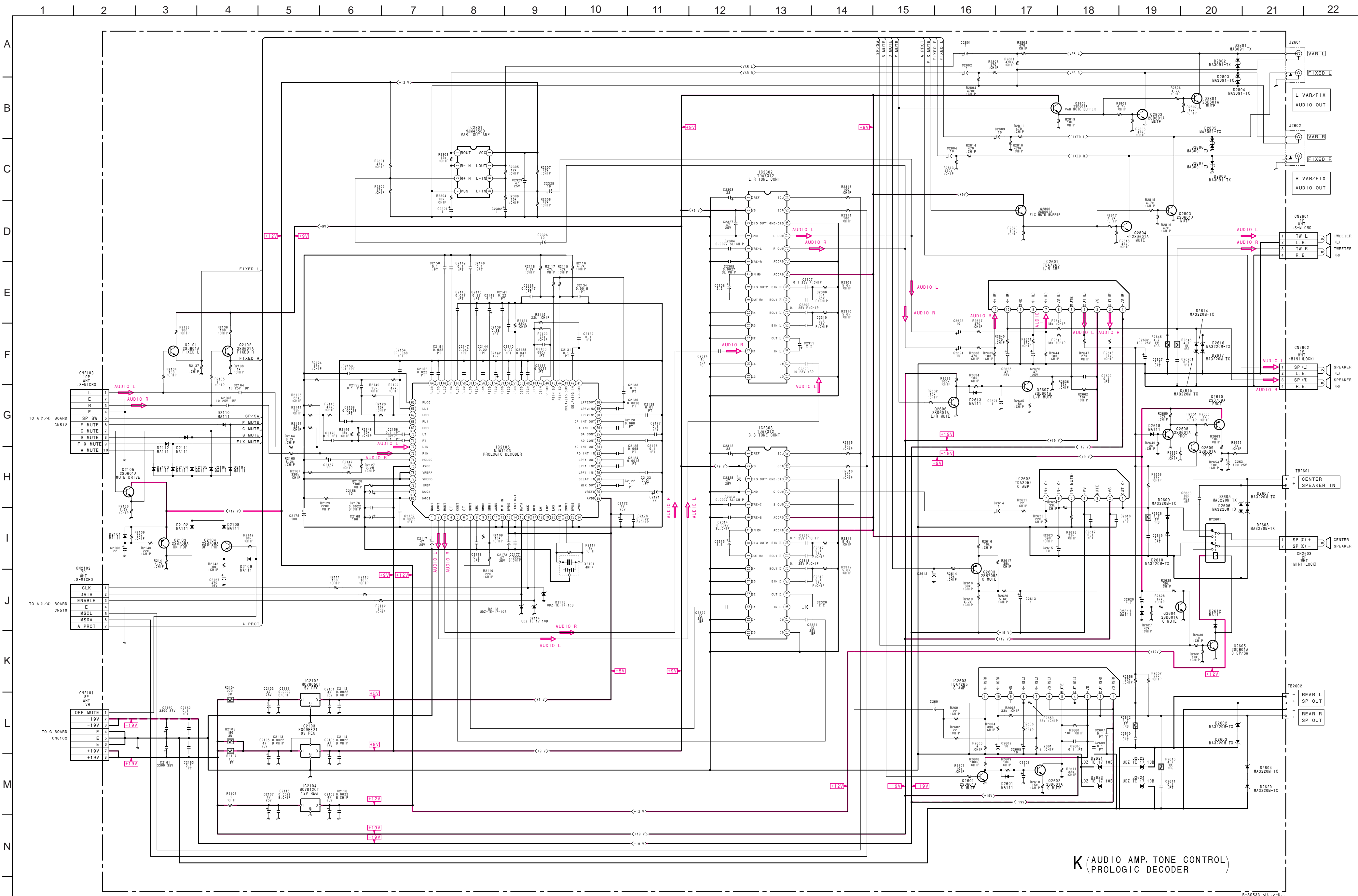
NOTE:
 • : Pattern from the side which enables seeing.
 • : Pattern of the rear side.



< Component Side >

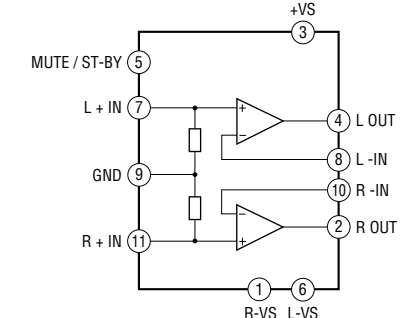
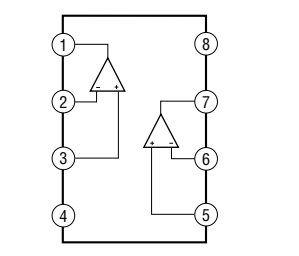


< Conductor Side >

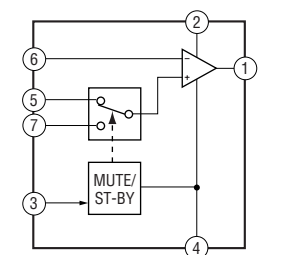


K BOARD : IC2301 NJM4558D

K BOARD : IC2601, 2603 TDA7265



K BOARD : IC2602 TDA2052



K BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC2102	I	19.6	IC2301	1	6.0	IC2601	B	4.1
	G	GND		2	6.0		C	3.5
	O	5.0		3	6.0		E	10.3
IC2103	I	15.2	IC2602	B	0	IC2603	E	12.0
	G	GND		C	0		C	0
	O	9.0		D	0		E	12.0
IC2104	I	19.6	IC2604	B	0	IC2605	E	12.0
	G	GND		C	0		C	0
	O	11.9		D	0		E	12.0
IC2105	I	4.1	IC2606	B	0	IC2607	E	10.3
	G	GND		C	0		C	10.3
	O	4.1		D	0		E	10.3

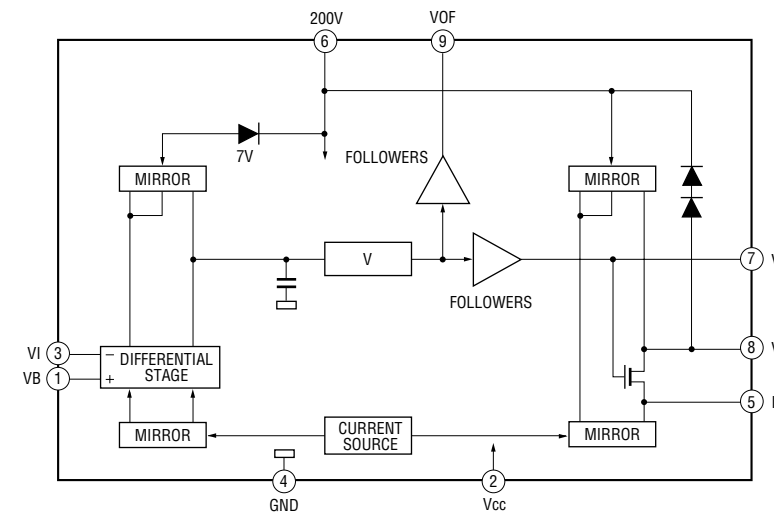
K BOARD TRANSISTOR VOLTAGE LIST

REF.	Pin NO.	VOL.
Q2101	B	4.1
	C	3.5
	E	12.0
Q2102	B	4.1
	C	0
	E	12.0
Q2103	B	12.1
	C	-1.6
	E	12.0
Q2104	B	0
	C	0
	E	12.0
Q2105	B	0
	C	12.0
	E	0
Q2603	B	0.7
	C	0
	E	0
Q2601	B	0.2
	C	GND
	E	11.7
Q2602	B	10.9
	C	10.3
	E	10.3
Q2604	B	0
	C	0.1
	E	GND
Q2605	B	0
	C	12.0
	E	GND
Q2606	B	0.2
	C	GND
	E	GND
Q2607	B	0
	C	10.3
	E	10.3
Q2608	B	0
	C	GND
	E	GND
Q2609	B	0
	C	9.0
	E	0
Q2610	B	0
	C	9.0
	E	9.0
Q2801	B	0
	C	GND
	E	0
Q2802	B	0
	C	0
	E	GND
Q2803	B	0
	C	GND
	E	GND
Q2804	B	0
	C	GND
	E	0
Q2805	B	0.2
	C	0
	E	9.0
Q2806	B	0
	C	9.0
	E	0

* All voltages are in V.
* Pin numbers which are not described are not used.

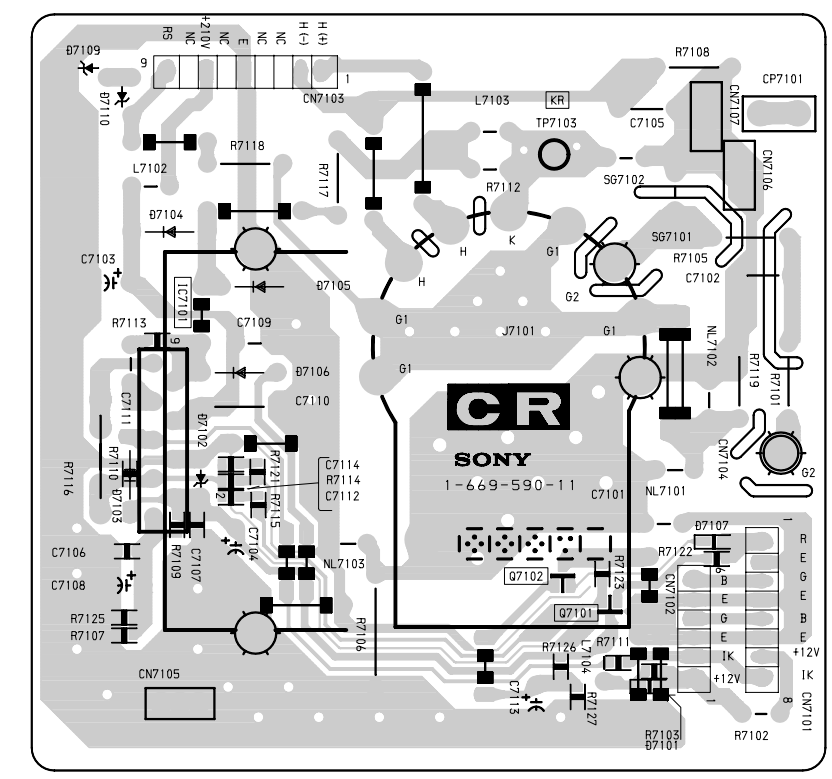
K (AUDIO AMP, TONE CONTROL) PROLOGIC DECODER

CR BOARD : IC7101 TDA6111Q/N4
 CG BOARD : IC7201 TDA6111Q/N4
 CB BOARD : IC7301 TDA6111Q/N4

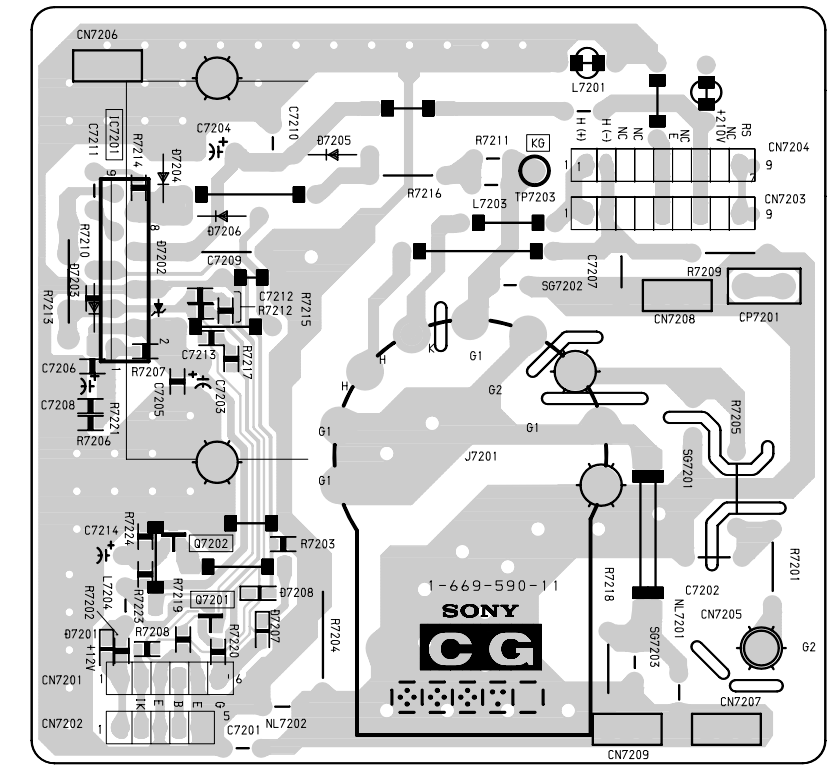


CR [R OUT] CG [G OUT] CB [B OUT]

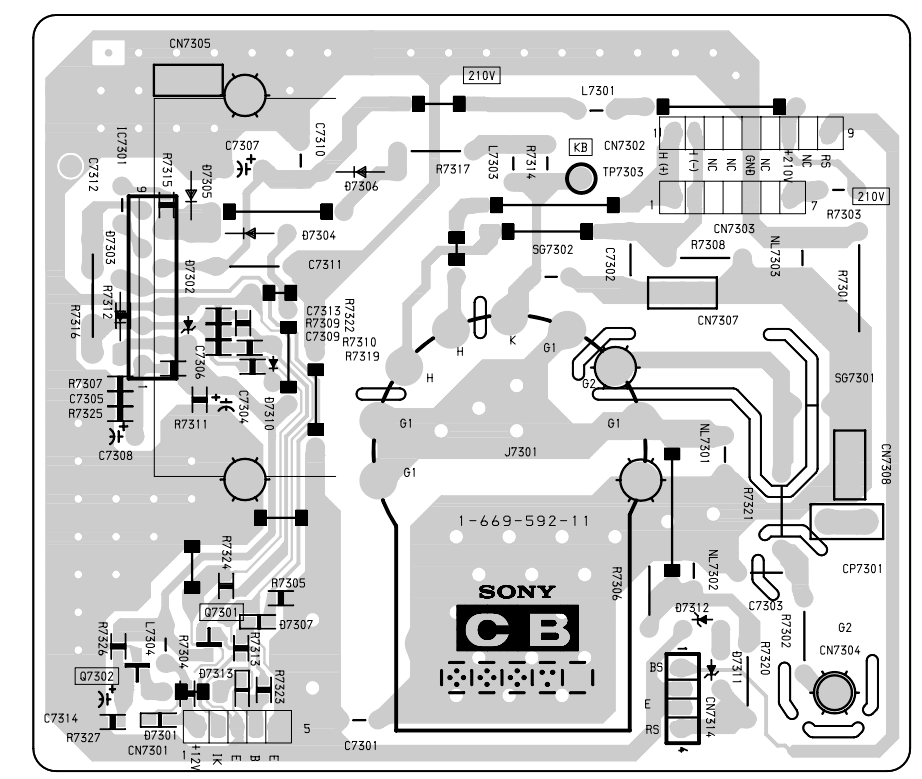
- CR Board -



- CG Board -

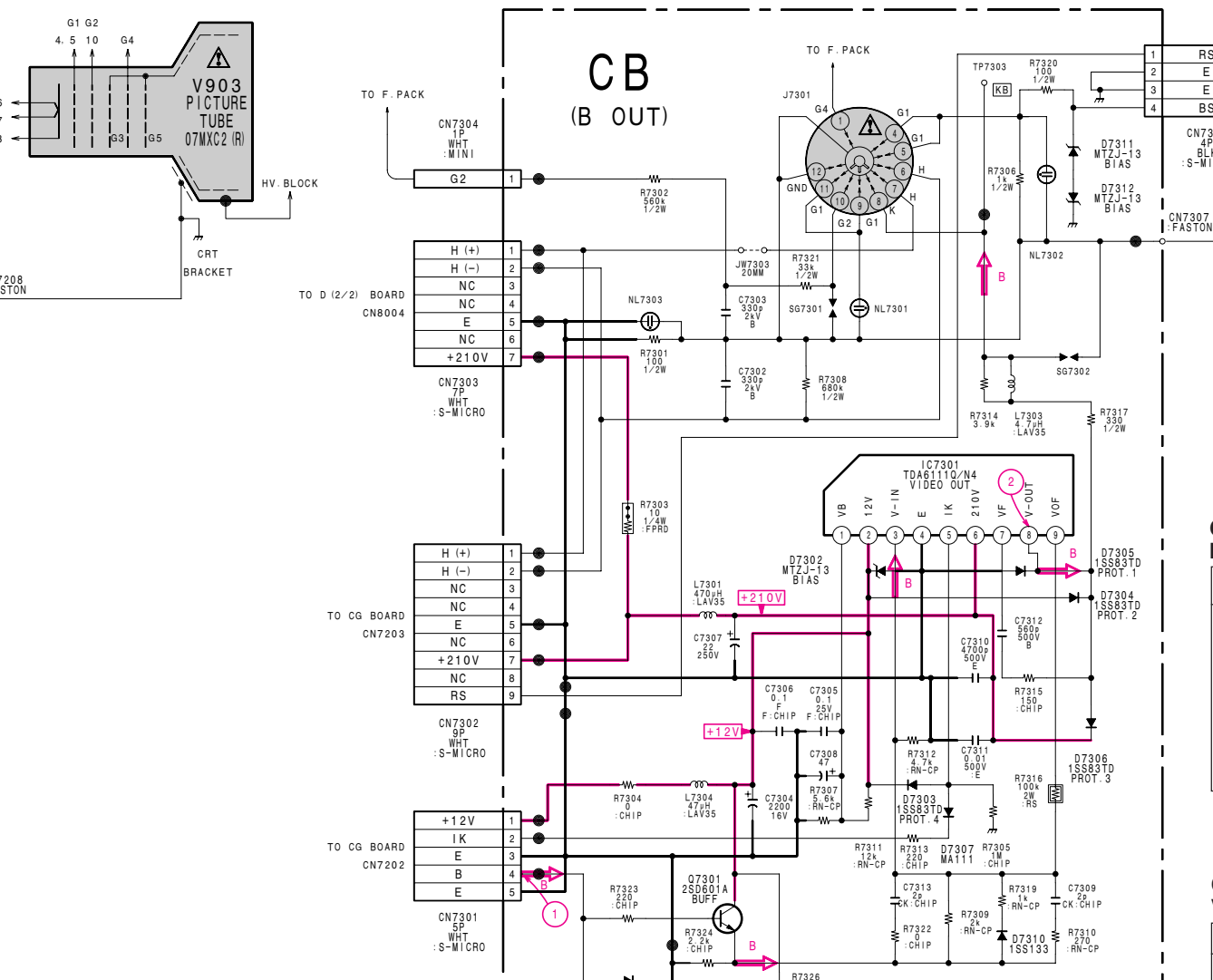
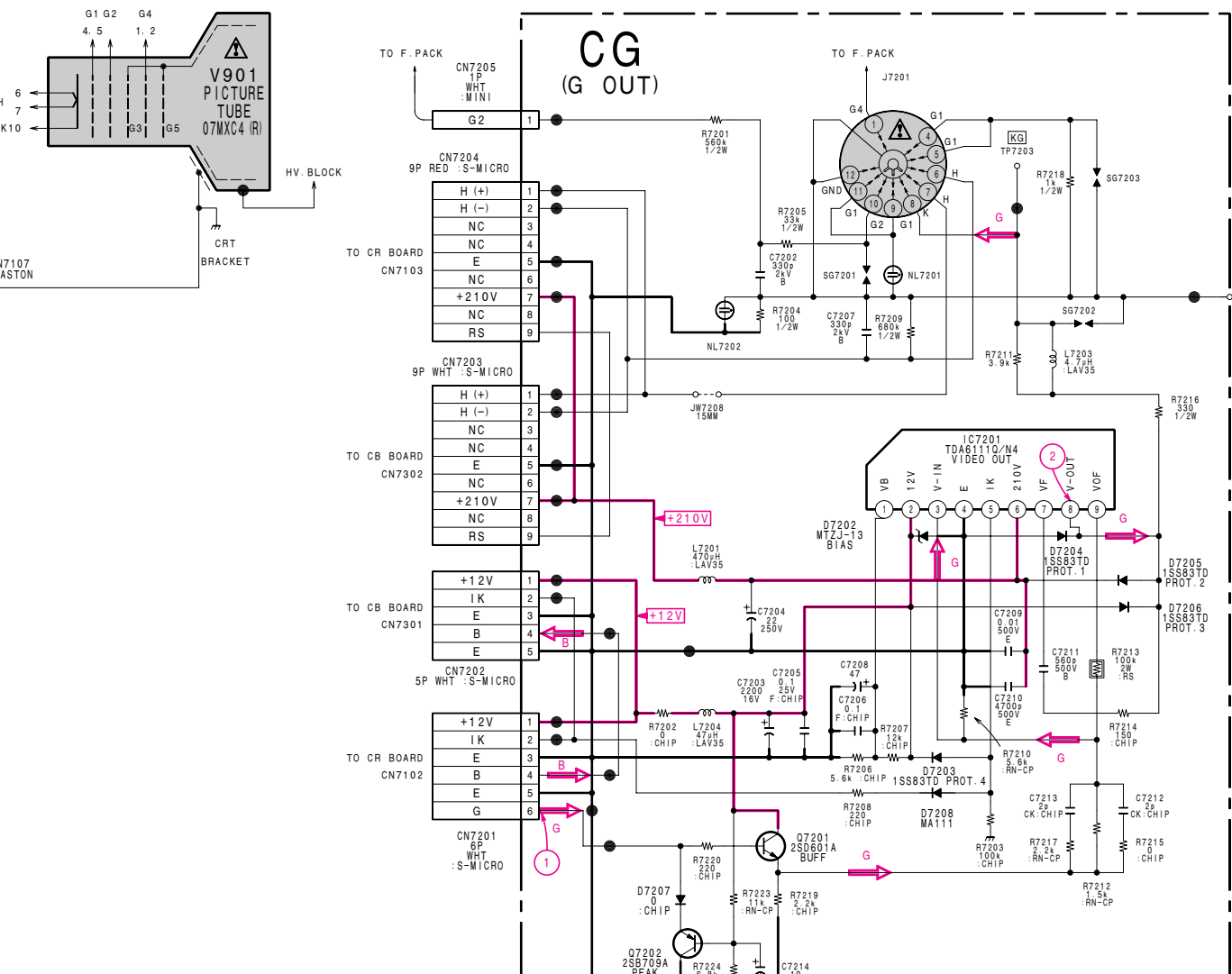
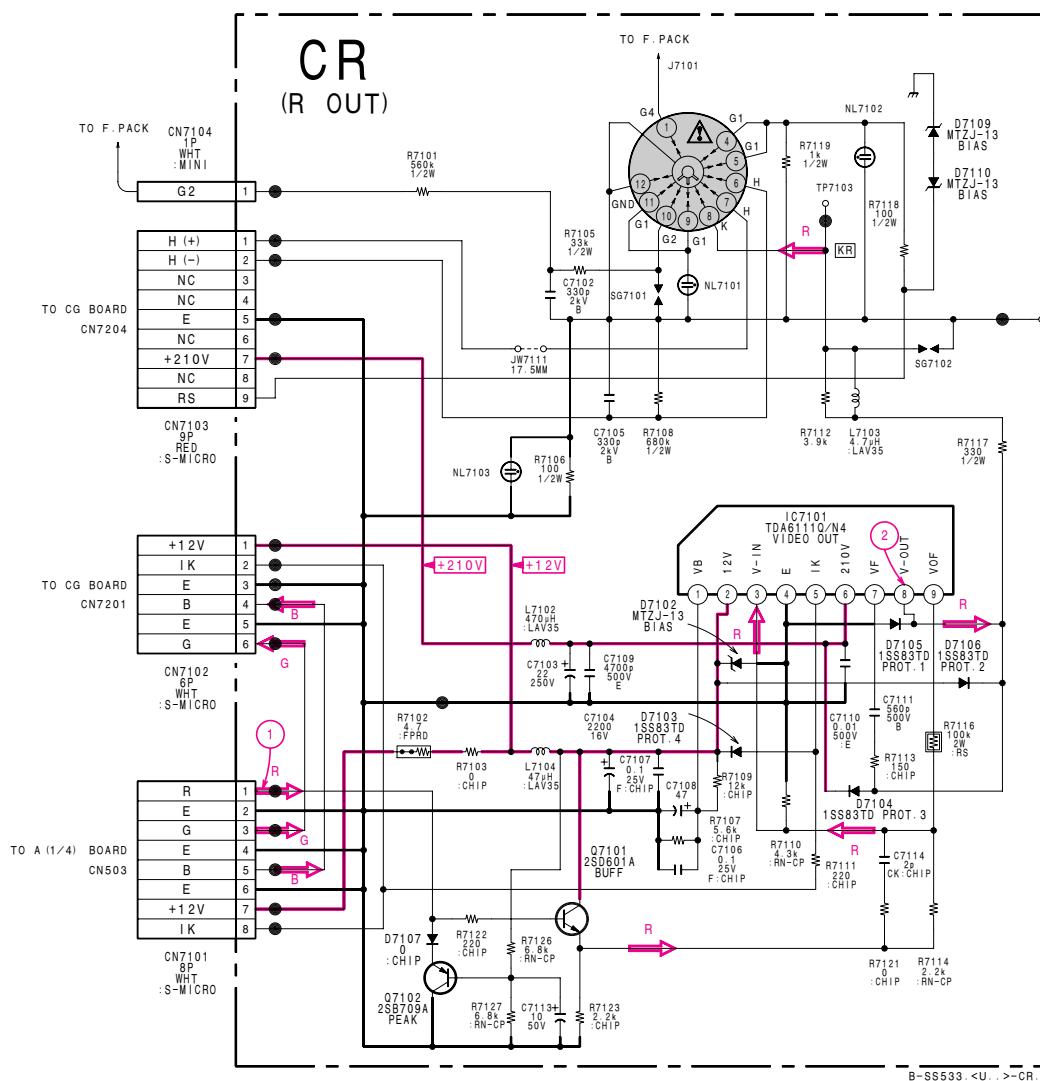


- CB Board -



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

A
B
C
D
E
F
G
H
I
J



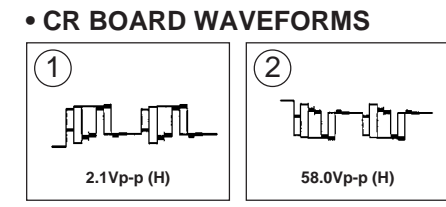
CR BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.
IC7101	①	3.5
	②	11.2
	③	3.5
	④	GND
	⑤	1.9
	⑥	193.5
	⑦	149.1
	⑧	150.0
	⑨	148.5

* All voltages are in V.

CR BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
Q7101	E 2.0
	B 1.9
Q7102	E 2.6
	C GND



CG BOARD IC VOLTAGE LIST

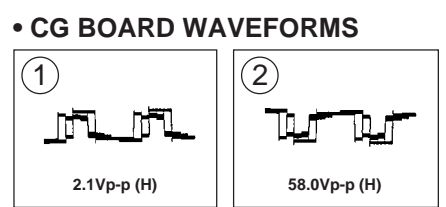
REF.	Pin NO.	VOL.
IC7201	①	3.5
	②	11.2
	③	3.5
	④	GND
	⑤	1.9
	⑥	193.5
	⑦	149.1
	⑧	150.0
	⑨	148.5

* All voltages are in V.

CG BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
Q7201	B 2.6
	C 12.0
Q7202	B 1.9
	E 2.6
	C GND

All voltages are in V.



CB BOARD IC VOLTAGE LIST

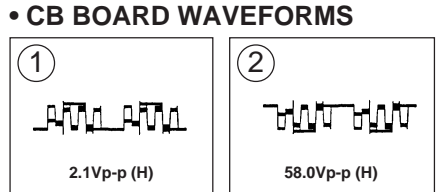
REF.	Pin NO.	VOL.
IC7101	①	3.5
	②	11.2
	③	3.5
	④	GND
	⑤	1.9
	⑥	193.5
	⑦	149.1
	⑧	150.0
	⑨	148.5

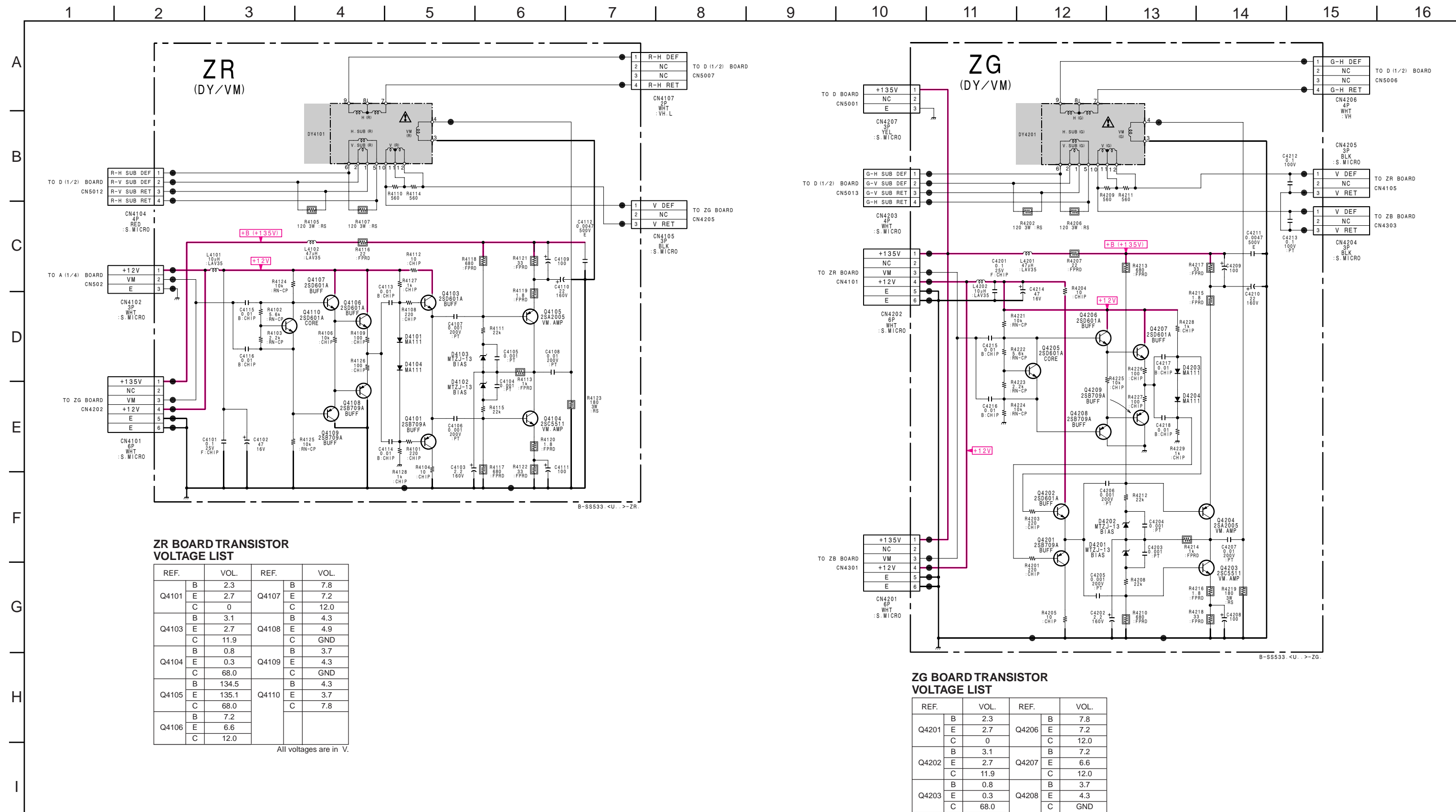
* All voltages are in V.

CB BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
B	2.6
Q7301	E 2.0
C	12
B	1.9
Q7302	E 2.6
C	GND

All voltages are in V.





ZR BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q4101	B 2.3	Q4107	B 7.8
	E 2.7		E 7.2
	C 0		C 12.0
Q4103	B 3.1	Q4108	B 4.3
	E 2.7		E 4.9
	C 11.9		C GND
Q4104	B 0.8	Q4109	B 3.7
	E 0.3		E 4.3
	C 68.0		C GND
Q4105	B 134.5	Q4110	B 4.3
	E 135.1		E 3.7
	C 68.0		C 7.8
Q4106	B 7.2		
	E 6.6		
	C 12.0		

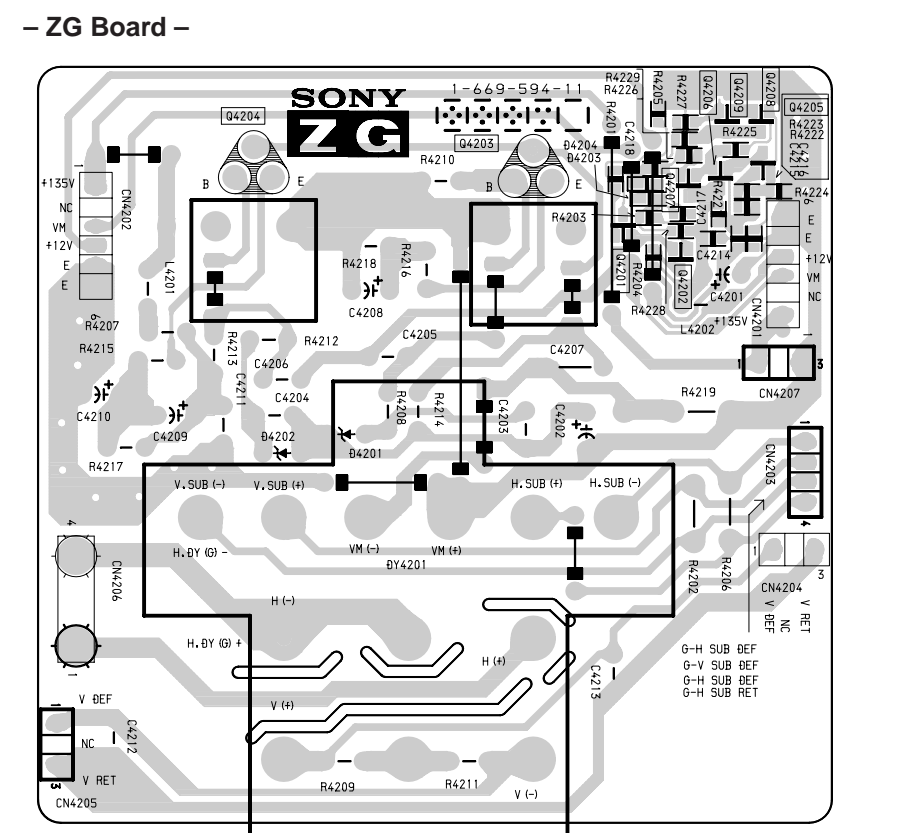
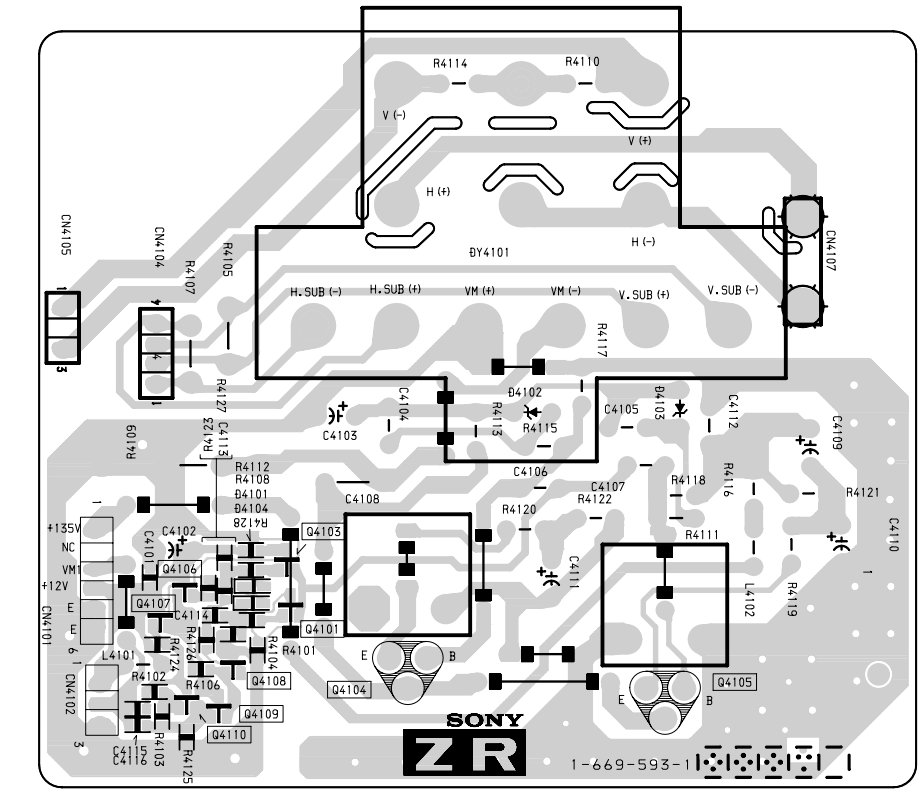
All voltages are in V.

ZG BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q4201	B 2.3	Q4206	B 7.8
	E 2.7		E 7.2
	C 0		C 12.0
Q4202	B 3.1	Q4207	B 7.2
	E 2.7		E 6.6
	C 11.9		C 12.0
Q4203	B 0.8	Q4208	B 3.7
	E 0.3		E 4.3
	C 68.0		C GND
Q4204	B 134.5	Q4209	B 4.3
	E 135.1		E 4.9
	C 68.0		C GND
Q4205	B 4.3		
	E 3.7		
	C 7.8		

All voltages are in V.

ZR [DY/VM] ZG [DY/VM]

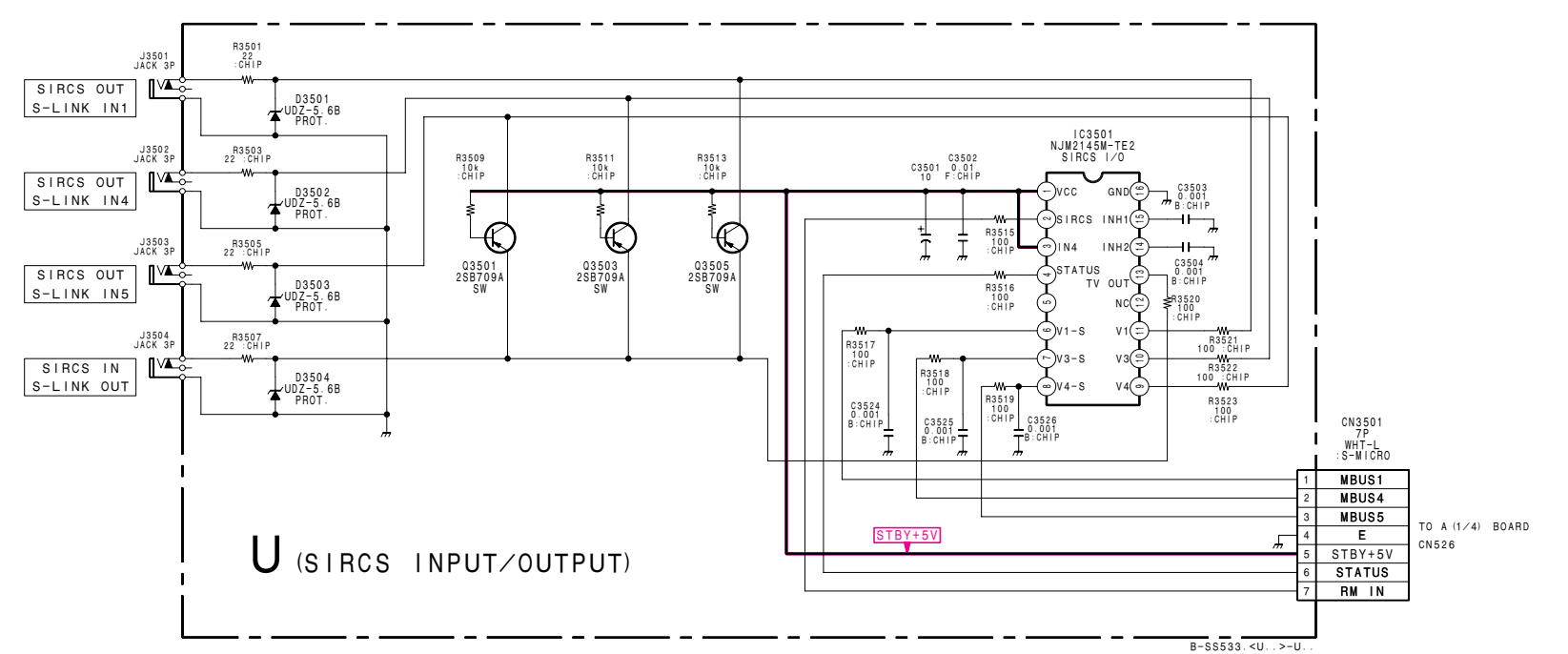
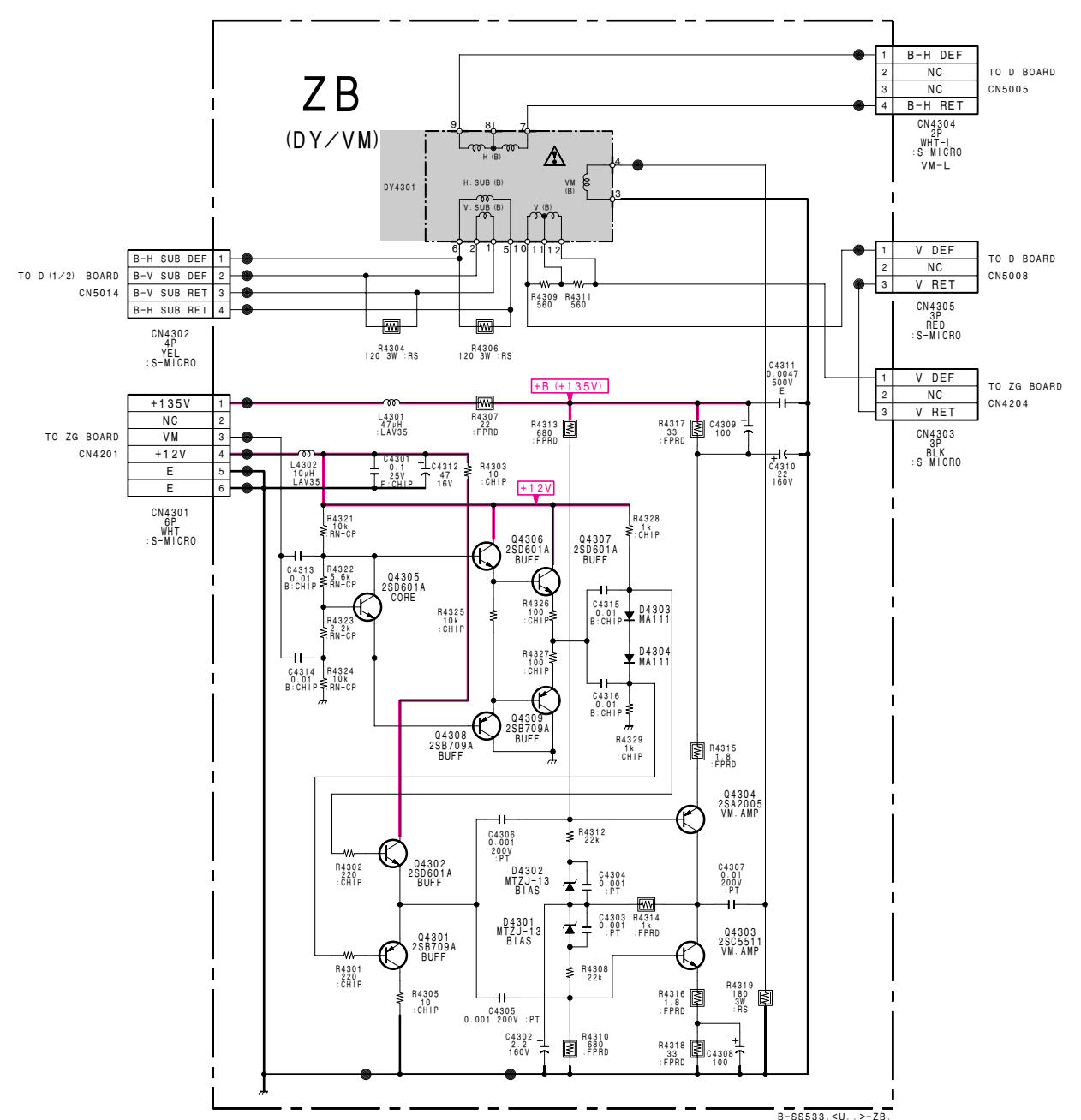


Schematic diagram
← ZR ZG board

Schematic diagram
ZB U board →

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
D
E
F
G
H
I



U BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.
IC3501	①	5.0
	②	4.7
	③	5.0
	④	0
	⑤	0
	⑥	0
	⑦	0
	⑧	0
	⑨	0.1
	⑩	0
⑪	0	
⑫	0.7	
⑬	0.9	
⑭	GNDP	

U BOARD TRANSISTOR VOLTAGE LIST

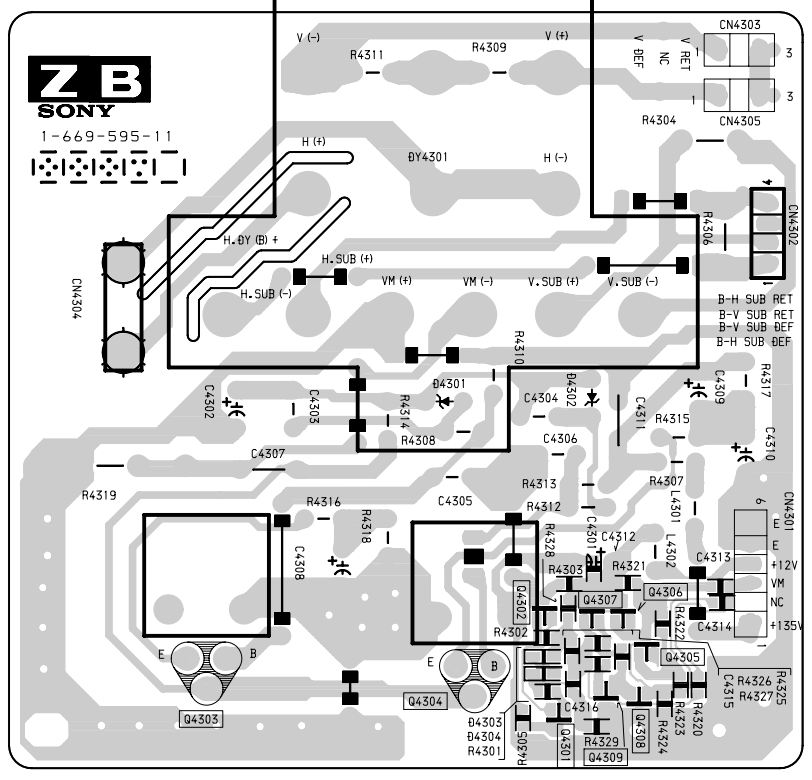
REF.	B	VOL.
Q3501	B	5.0
	E	0
Q3503	C	0.2
	B	5.0
	E	0
Q3505	B	5.0
	C	0
	E	0

All voltages are in V.

• All voltage are in V.
• Pin numbers which are not described are not used.

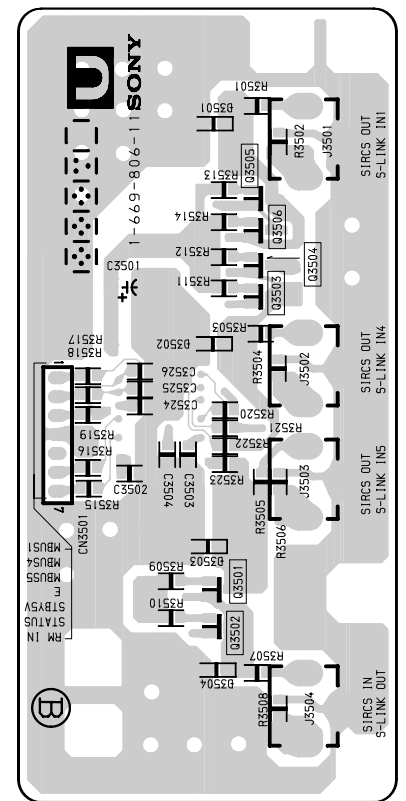
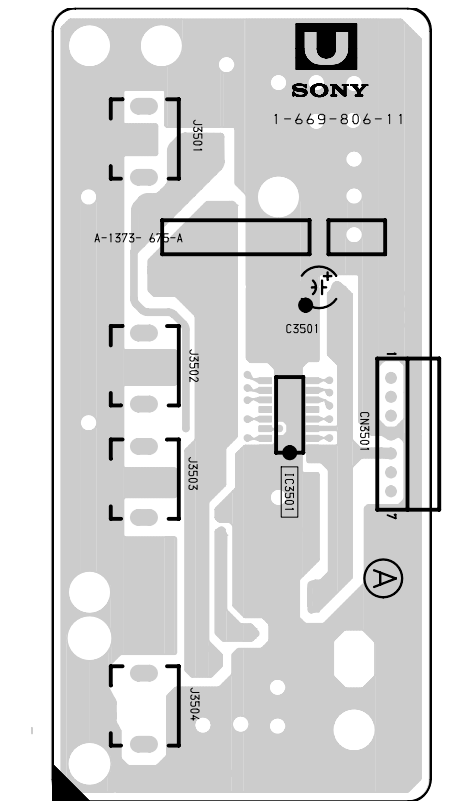
ZB [DY/VM]

- ZB Board -



U [SIRCS INPUT/OUTPUT]

- U Board -



NOTE:
• : Pattern from the side which enables seeing.
• : Pattern from the rear side.

< Component Side >

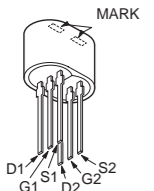
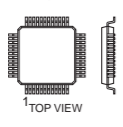
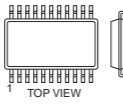
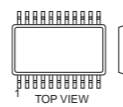
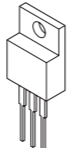
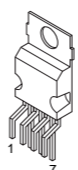

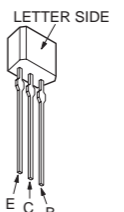
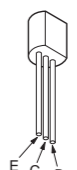
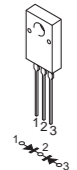
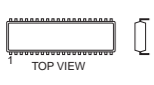
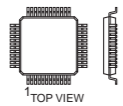
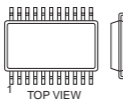
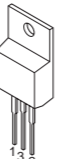
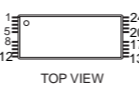
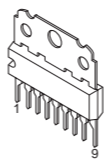
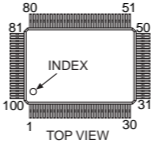
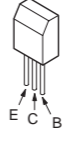
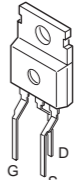
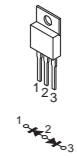
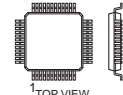
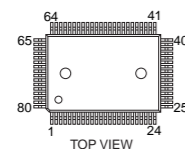
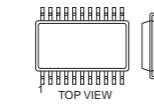
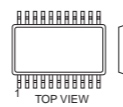
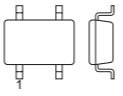
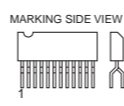
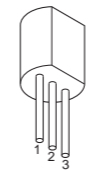

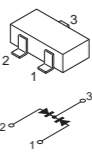
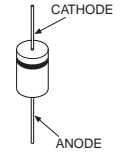
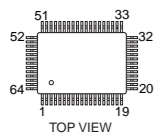
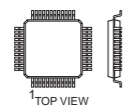
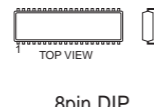
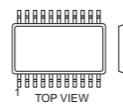
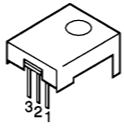

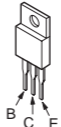
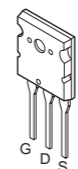
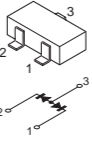
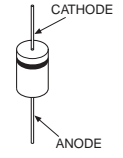
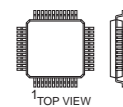
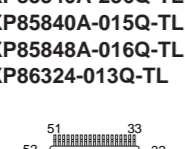
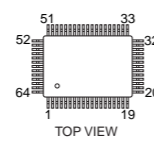
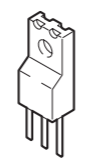
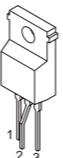
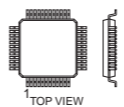
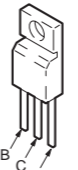
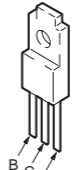
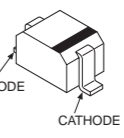
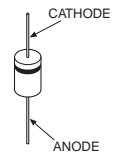
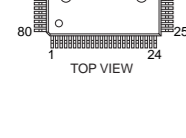

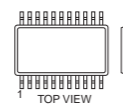
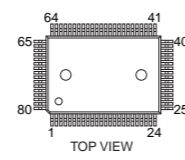
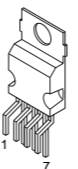
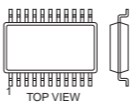
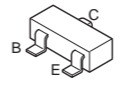
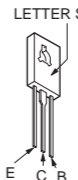
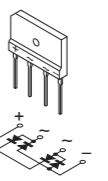
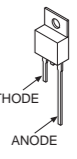
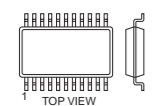

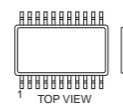
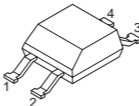
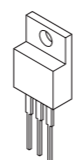
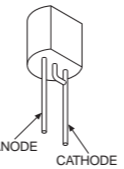
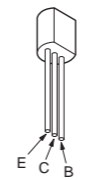
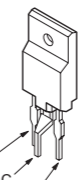
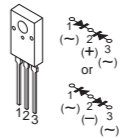
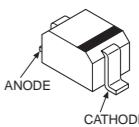
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ZB BOARD TRANSISTOR VOLTAGE LIST

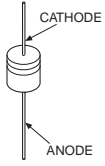
REF.	B	VOL.	REF.	B	VOL.
Q4301	B	2.3	Q4306	B	7.8
	E	2.7		E	7.2
	C	0		C	12.0
Q4302	B	3.1	Q4307	B	7.2
	E	2.7		E	6.6
	C	11.9		C	12.0
Q4303	B	0.8	Q4308	B	3.7
	E	0.3		E	4.3
	C	68.0		C	GND
Q4304	B	134.5	Q4309	B	4.3
	E	135.1		E	4.9
	C	68.0		C	GND
Q4305	B	4.3			
	E	3.7			
	C	7.8			

All voltages are in V.

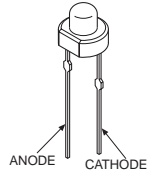
6-5. SEMICONDUCTORS

<p>BA05T</p>  <p>MARK</p> <p>D1 S1 G1 D2 S2 G2</p>	<p>CXD2062Q CXD2070Q CXD2079Q</p>  <p>TOP VIEW</p> <p>208pin QFP</p>	<p>LH5317XX MC74HC32AF MC74HC74AFEL NJM2058M-TE2 SN74HC05ANS TLC2932IPW TLC2933IPW-E20</p>  <p>TOP VIEW</p> <p>14pin SOP</p>	<p>MC74F244MEL</p>  <p>TOP VIEW</p> <p>20pin SOP</p>	<p>PQ09RF21</p> 	<p>TDA2052</p>  <p>1 7</p>	<p>UPD424210LE-60-A-E2</p>  <p>TOP VIEW</p> <p>40pin DIP</p>	<p>2SA1175-HFE 2SC2785-HFE</p>  <p>LETTER SIDE</p> <p>E C B</p>	<p>2SC2878-AB</p>  <p>E C B</p>	<p>D10SC6M-4012</p>  <p>1 2 3</p>
<p>CA0007AD IR2112 NJM2058D</p>  <p>TOP VIEW</p> <p>14pin DIP</p>	<p>CXD2071R</p>  <p>TOP VIEW</p> <p>176pin QFP</p>	<p>LM358D M24C02-MN6T M24C08-MN6T ST24E16FM6TR TC7W08F</p>  <p>TOP VIEW</p> <p>8pin SOP</p>	<p>MC7905CT</p>  <p>1 3 2</p>	<p>PQ30RV21</p>  <p>TOP VIEW</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24</p>	<p>TDA6111Q / N4</p>  <p>9</p>	<p>UPD64081GF-3BA</p>  <p>INDEX</p> <p>80 51 50 31 30 1</p>	<p>2SA1221-L 2SB733-34 2SB734-34 2SD774-34</p>  <p>E C B</p>	<p>2SC3997-YB</p>  <p>G D S</p>	<p>D25SC6MF04 D25SC6MRF04</p>  <p>1 2 3</p>
<p>CM0006AF</p>  <p>TOP VIEW</p> <p>80pin</p>	<p>CXD2303AQ-TL</p>  <p>TOP VIEW</p> <p>64 41 40 25 24 1</p>	<p>LM393PS M5218AP TL1591CP TOP209D TOP209P UPC358C UPC393C</p>  <p>TOP VIEW</p> <p>8pin DIP</p>	<p>MN47V77ST1</p>  <p>TOP VIEW</p> <p>28pin SOP</p>	<p>PST9143NL TC7SET08FU(TE85L) C7SH04F(TE85L)</p>  <p>5pin CHIP</p>	<p>TDA7265</p>  <p>MARKING SIDE VIEW</p> <p>11pin ZIP</p>	<p>UPC1093J-1-T</p>  <p>1 2 3</p>	<p>2SA1943-0(LBSONY)</p>  <p>E C B</p>	<p>DAN202K</p>  <p>2 3 1</p>	<p>EGP20G EL1Z GP08D MTZJ-T-77-3.9 MTZJ-T-77-9.1A RGP02-20EL-6394 S2L40F UF4005PKG23 1SS83 11ES4-TA1B</p>  <p>CATHODE</p> <p>ANODE</p>
<p>CXA1845Q</p>  <p>TOP VIEW</p> <p>51 33 32 20 19 1</p>	<p>CXD8675R</p>  <p>TOP VIEW</p> <p>144pin QFP</p>	<p>LM393PS M5218AP TL1591CP TOP209D TOP209P UPC358C UPC393C</p>  <p>TOP VIEW</p> <p>8pin DIP</p>	<p>MSM548331TS-K</p>  <p>TOP VIEW</p> <p>44pin</p>	<p>SBX1780-51(10)</p>  <p>3 2 1</p>	<p>TDA7312</p>  <p>TOP VIEW</p> <p>30pin</p>	<p>IRFI640LF</p>  <p>B C E</p>	<p>2SA2005 2SC5511</p>  <p>G D S</p>	<p>DAP202K</p>  <p>2 3 1</p>	<p>ERC04-06SE ERC06-15S ERC91-02</p>  <p>CATHODE</p> <p>ANODE</p>
<p>CXA2019AQ-T4</p>  <p>TOP VIEW</p> <p>40pin</p>	<p>CXP85340A-256Q-TL CXP85840A-015Q-TL CXP85848A-016Q-TL CXP86324-013Q-TL</p>  <p>TOP VIEW</p> <p>51 33 32 20 19 1</p>	<p>MB90091A-146</p>  <p>TOP VIEW</p> <p>51 33 32 20 19 1</p>	<p>NJM7912FA</p>  <p>1 2 3</p>	<p>SE-135N</p>  <p>1 2 3</p>	<p>TLC5733AIPM</p>  <p>TOP VIEW</p> <p>64pin</p>	<p>IRFI644G-LF36</p>  <p>B C E</p>	<p>2SB649A 2SC2688-LK</p>  <p>B C E</p>	<p>DTZ10B DTZ33B DTZ5.1B</p>  <p>ANODE</p> <p>CATHODE</p>	<p>ERC04-06SE ERC06-15S ERC91-02</p>  <p>CATHODE</p> <p>ANODE</p>
<p>CXA2101AQ-TL</p>  <p>TOP VIEW</p> <p>64 41 40 25 24 1</p>	<p>IR3M02A</p>  <p>TOP VIEW</p> <p>16pin DIP</p>	<p>MC14053BF C74HC4052F JM2145M-TE2 TC74HC123AF TC74HC4538AF UPD6376GS-E2</p>  <p>TOP VIEW</p> <p>16pin SOP</p>	<p>NJW1103</p>  <p>TOP VIEW</p> <p>64 41 40 25 24 1</p>	<p>STV9379</p>  <p>1 7</p>	<p>UPC4570G2-E2</p>  <p>TOP VIEW</p> <p>9pin SOP</p>	<p>DTA114EKA-T146 DTA144EKA-T146 DTC114EK DTC144EKA 2SA1162-G 2SA1226 2SD601A-Q</p>  <p>B C E</p>	<p>2SA1013-O</p>  <p>LETTER SIDE</p> <p>E C B</p>	<p>D1NL40-TA2 D4SBS4-F RBV-1506</p>  <p>CATHODE</p> <p>ANODE</p>	<p>ERD08M-15</p>  <p>CATHODE</p> <p>ANODE</p>
<p>CXA2119M</p>  <p>TOP VIEW</p> <p>28pin SOP</p>	<p>LA7856A</p>  <p>TOP VIEW</p> <p>22pin DIP</p>	<p>MC14053BF C74HC4052F JM2145M-TE2 TC74HC123AF TC74HC4538AF UPD6376GS-E2</p>  <p>TOP VIEW</p> <p>16pin SOP</p>	<p>PC123F2</p>  <p>1 2 3 4</p>	<p>TA7805S A7812S</p>  <p>1 2 3 4</p>	<p>UPC574J</p>  <p>ANODE</p> <p>CATHODE</p>	<p>2SA1013-O</p>  <p>E C B</p>	<p>2SC4632LS-CB7</p>  <p>B C E</p>	<p>D10SC6MR D8LC20U-4015</p>  <p>(-) (+) or (-) (+)</p> <p>(-) (+)</p> <p>(-) (+)</p>	<p>MA111 RD5.6S-B UDZ-TE-17-7.5B</p>  <p>ANODE</p> <p>CATHODE</p>

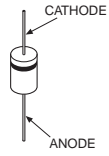
MA3033-L
MA3091
MA3150H-TX
MA3220M-TX
RD13M-B3
RD5.1M-B2



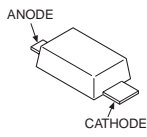
SLR-325VCT31



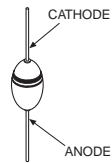
S2LA20F
1SS133T-77



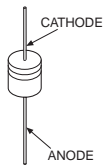
MA8039



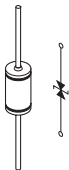
U05G



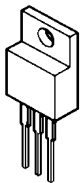
MTZJ-13
MTZJ-33B
MTZJ-7.5B
RD10ESB2
RD12ES-B2
RD20ES-B2
RD24ES-B1
RD5.6ESB2



RD9.1EW



SF10SC3L



SECTION 7


EXPLODED VIEWS


NOTE:

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

• The construction parts of an assembled part are indicated with a collation number in the remark column.

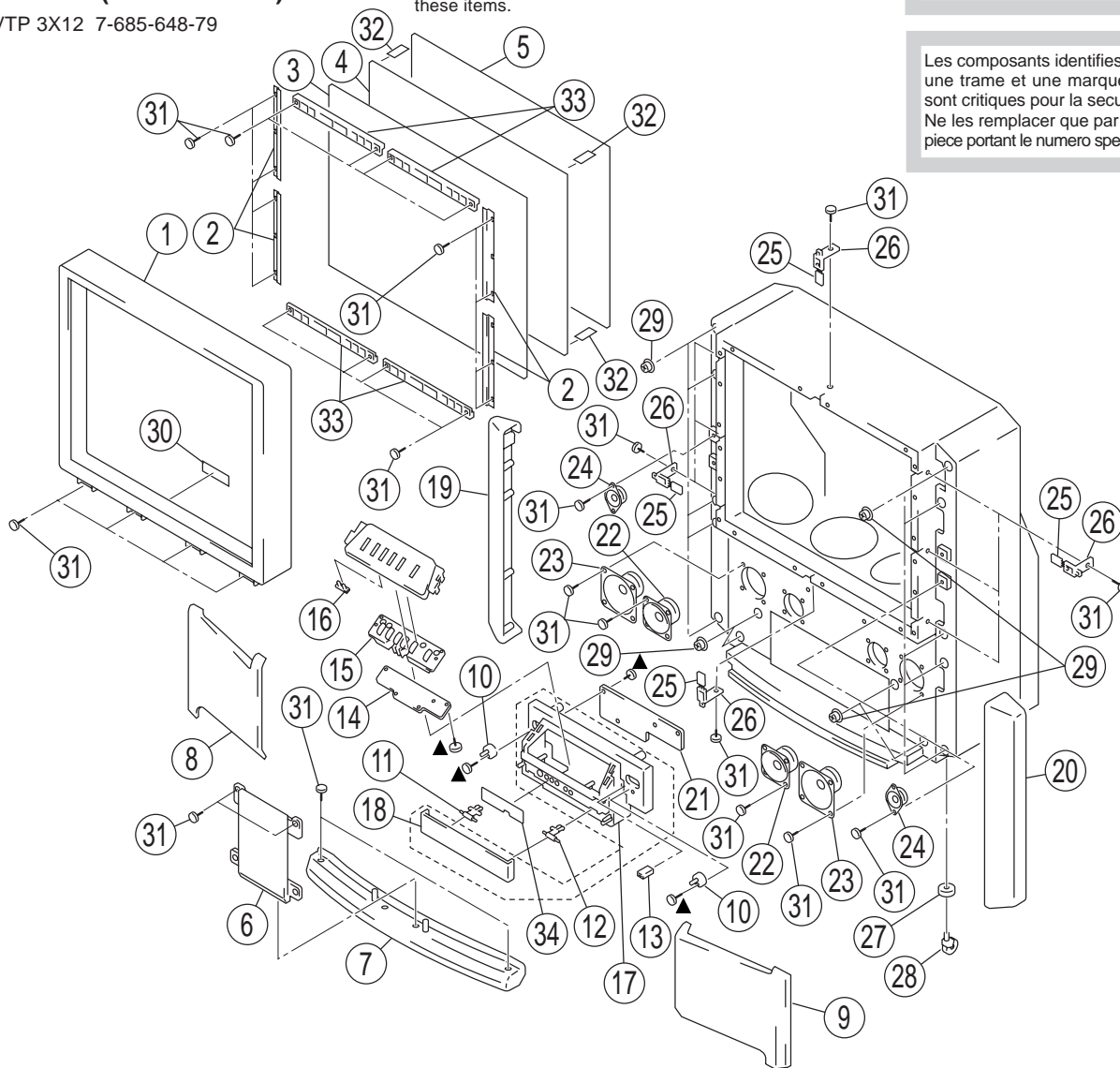
• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

7-1. COVER (KP-53XBR200)

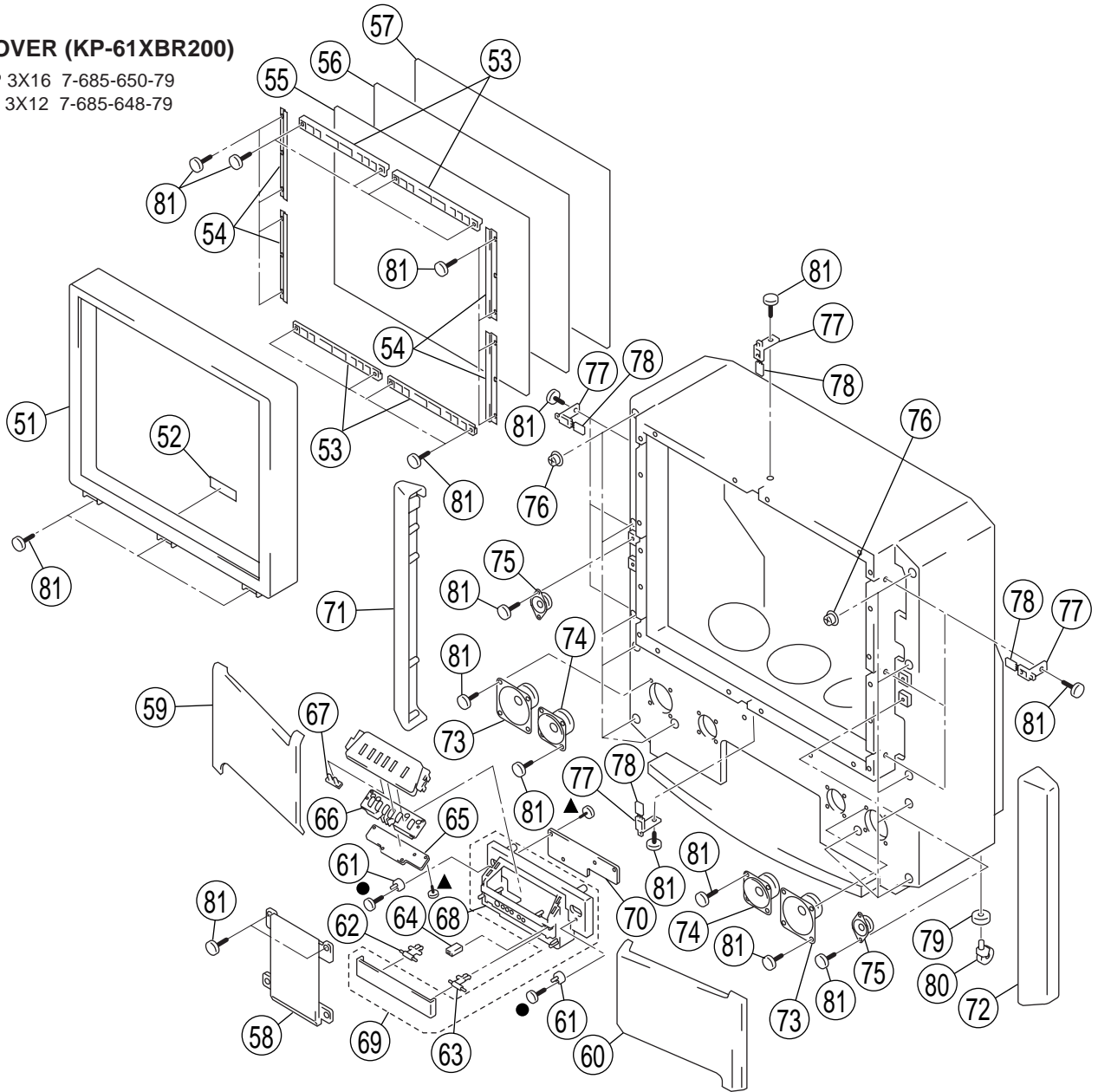
▲ : +BVTP 3X12 7-685-648-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4035-898-1	FRAME ASSY, SCREEN		18	4-065-740-01	PANEL (ASSY)	
2	4-065-780-01	HOLDER (S), SCREEN		19	A-1482-913-A	GRILLE (L) BLOCK ASSY, TOP	
3	4-065-814-01	SCREEN (POLY), CONTRAST		20	A-1482-914-A	GRILLE (R) BLOCK ASSY, TOP	
4	4-064-343-01	PLATE (L), DUFFUSION		21	* A-1372-449-A	HB BOARD, COMPLETE	
5	4-059-221-11	PLATE (F), DIFFUSION		22	1-505-914-11	SPEAKER (10CM)	
6	* X-4035-897-1	PANEL ASSY, FRONT		23	1-505-915-11	SPEAKER (13CM)	
7	* 4-063-412-01	SKIRT, FRONT		24	1-505-916-11	SPEAKER (5.2CM)	
8	X-4035-902-1	GRILLE (L) ASSY,BOTTOM SPEAKER		25	1-528-911-11	BATTERY, SOLAR	
9	X-4035-903-1	GRILLE (R) ASSY,BOTTOM SPEAKER		26	* 4-063-422-01	BRACKET, SENSOR	
10	4-054-709-01	STRIKE		27	4-030-850-01	SOCKET, CASTER	
11	4-045-250-01	DAMPER		28	4-039-546-01	CASTER	
12	3-703-035-11	SHAFT, LID		29	4-063-421-01	LATCH (K)	
13	4-042-192-01	CATCHER, PUSH		30	* A-1372-450-A	HC BOARD, COMPLETE	
14	* A-1372-448-A	HA BOARD, COMPLETE		31	4-378-522-31	SCREW (4X20), TAPPING	
15	4-063-408-01	BUTTON, MULTI		32	7-632-661-51	BLACK ACETATE (2142) 23X50M	
16	4-063-409-01	GUIDE, LED		33	4-063-411-01	HOLDER, SCREEN	
17	4-063-405-01	PANEL, CONTROL		34	4-063-426-01	LABEL, SUB CONTROL	

7-2. COVER (KP-61XBR200)

- : +BVTP 3X16 7-685-650-79
- ▲ : +BVTP 3X12 7-685-648-79



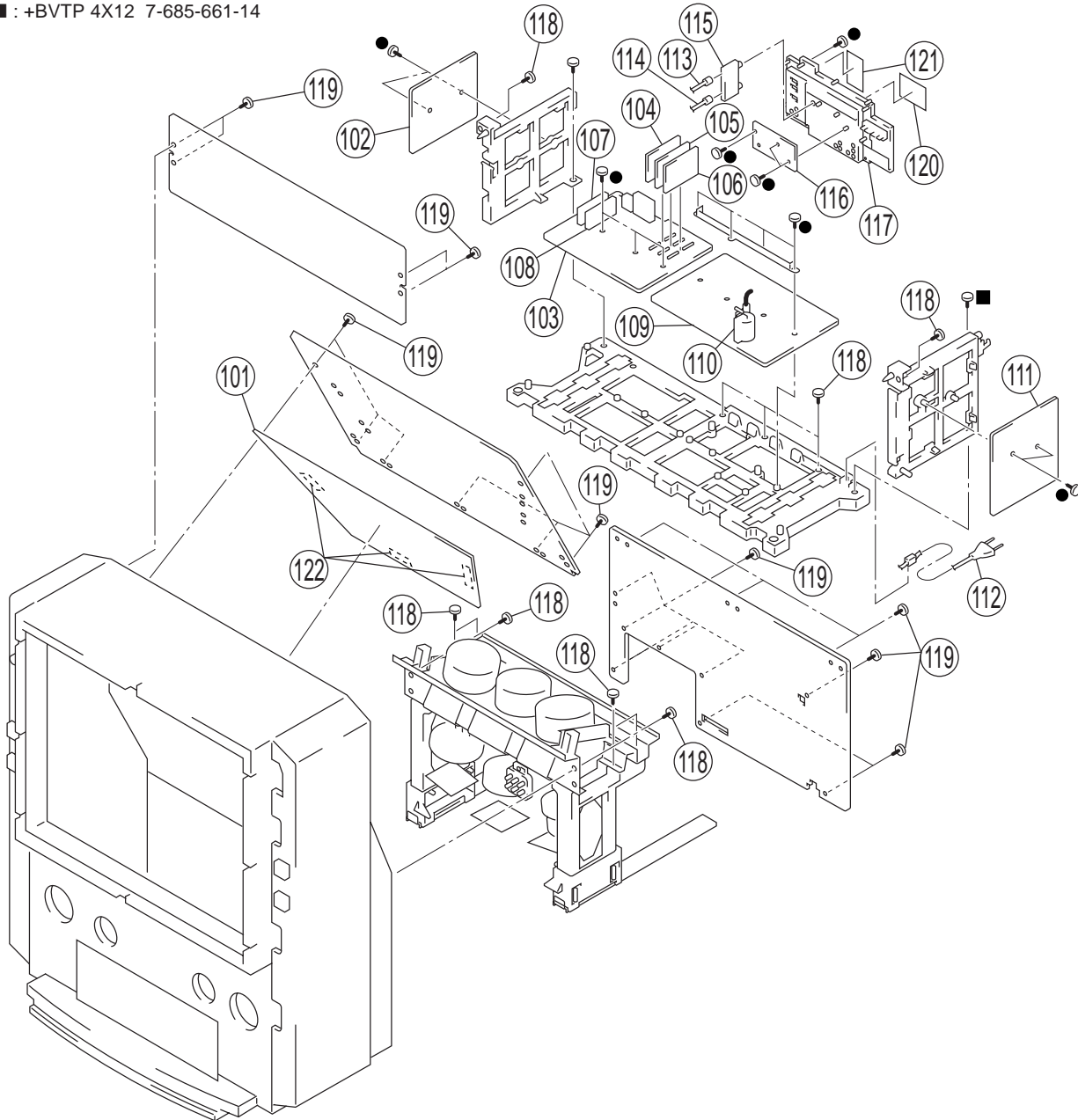
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* X-4035-896-1	FRAME ASSY, SCREEN		67	4-063-409-01	GUIDE, LED	
52	* A-1372-450-A	HC BOARD, COMPLETE		68	4-063-405-01	PANEL, CONTROL	
53	4-044-726-11	HOLDER (L), SCREEN		69	4-065-741-01	PANEL (ASSY)	
54	4-044-727-11	HOLDER (S), SCREEN		70	* A-1372-449-A	HB BOARD, COMPLETE	
55	4-065-813-01	SCREEN (POLY), CONTRAST		71	A-1482-903-A	GRILLE (L) BLOCK ASSY, TOP	
56	4-064-342-01	PLATE (L), DUFFUSION		72	A-1482-904-A	GRILLE (R) BLOCK ASSY, TOP	
57	4-066-082-01	PLATE (F), DIFFUSION		73	1-505-917-11	SPEAKER (16CM)	
58	* X-4035-890-1	PANEL ASSY, FRONT		74	1-505-914-11	SPEAKER (10CM)	
59	X-4035-894-1	GRILLE (L) ASSY,BOTTOM SPEAKER		75	1-505-916-11	SPEAKER (5.2CM)	
60	A-1482-906-A	GRILLE (R) ASSY,BOTTOM SPEAKER		76	4-063-421-01	LATCH (K)	
61	4-054-709-01	STRIKE		77	* 4-063-422-01	BRACKET, SENSOR	
62	4-045-250-01	DAMPER		78	1-528-911-11	BATTERY, SOLAR	
63	3-703-035-11	SHAFT, LID		79	4-030-850-01	SOCKET, CASTER	
64	4-042-192-01	CATCHER, PUSH		80	4-065-810-01	CASTER (50MM), PLP	
65	* A-1372-448-A	HA BOARD, COMPLETE		81	4-378-522-31	SCREW (4X20), TAPPING	
66	4-063-408-01	BUTTON, MULTI					

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

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

7-3. CHASSIS

- : +BVTP 3X16 7-685-650-79
- : +BVTP 4X12 7-685-661-14



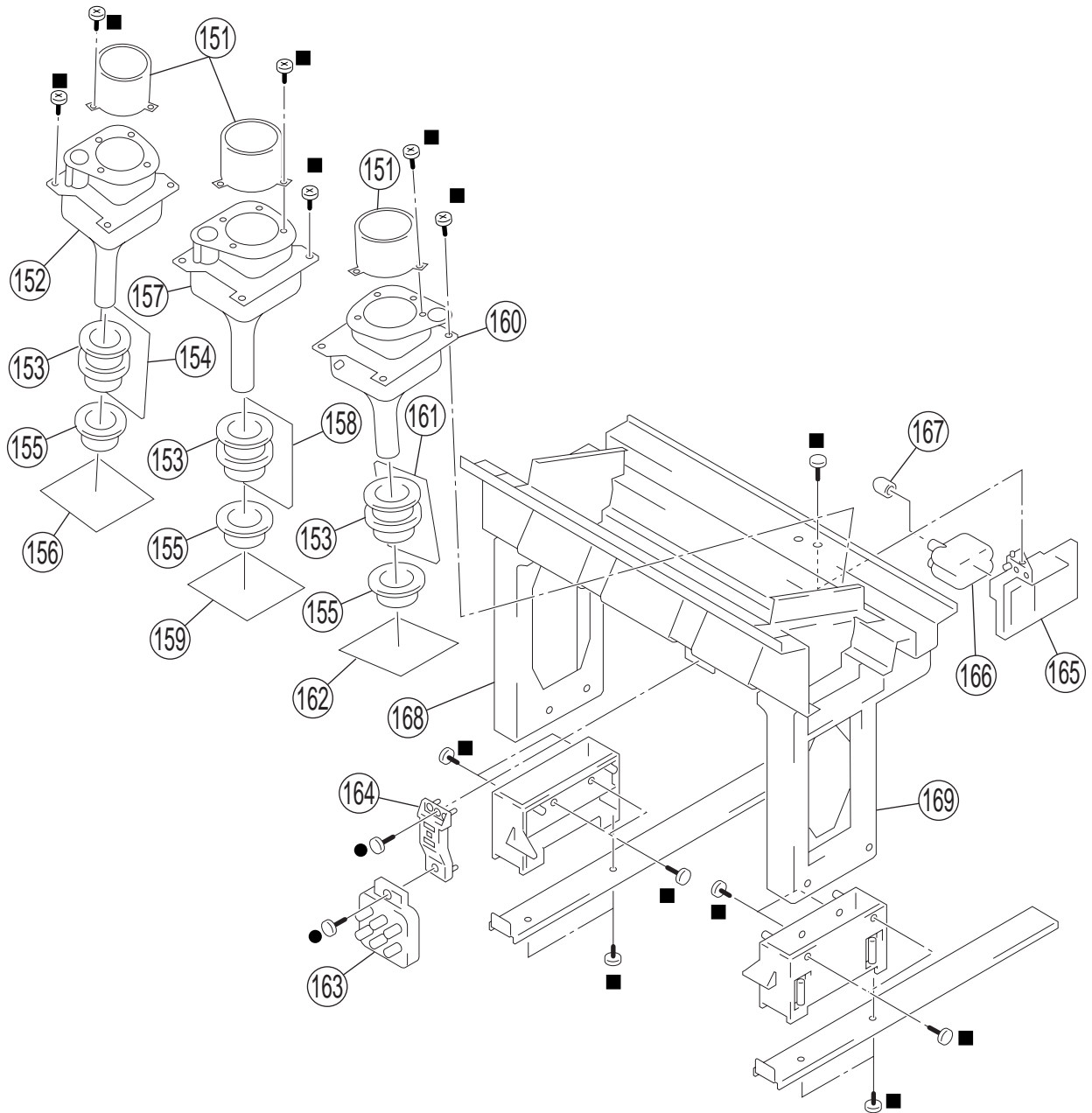
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-065-769-01	MIRROR (61XBR), REFLECTION (KP-61XBR200)		110	▲ 1-453-285-11	FBT ASSY, NX-4006//X4P	
	4-065-781-01	MIRROR, REFLECTION (KP-53XBR200)		111	* A-1316-400-A	G BOARD, COMPLETE	
102	* A-1380-573-A	K BOARD, COMPLETE		112	▲ 1-783-595-11	CORD, NOISE FILTER WITH POWER	
103	* A-1298-500-A	A BOARD, COMPLETE		113	* 1-556-945-21	CABLE, P-P	
104	* A-1131-320-A	BM BOARD, COMPLETE		114	* 1-557-056-31	CABLE, P-P	
105	* A-1131-319-A	BR BOARD, COMPLETE		115	1-251-321-12	SELECTOR, ANTENNA	
106	* A-1131-321-A	BD BOARD, COMPLETE		116	* A-1373-675-A	U BOARD, COMPLETE	
107	8-598-431-00	TUNER, FSS BTF-WA411 (MAIN)		117	4-065-812-01	TERMINAL BOARD (ASSY)	
108	8-598-431-00	TUNER, FSS BTF-WA411 (SUB)		118	4-052-894-01	SCREW (4X20), HEAD TAPPING	
109	* A-1343-476-A	D BOARD, COMPLETE (VAR) (KP-61XBR200)		119	4-378-522-31	SCREW (4X20), TAPPING	
	* A-1343-477-A	D BOARD, COMPLETE (VAR) (KP-53XBR200)		120	4-063-424-01	LABEL (A), TERMINAL	
				121	4-063-425-01	LABEL (B), TERMINAL	
				122	4-059-099-01	SPACER, FORM	

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

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

7-4. PICTURE TUBE

- : +BVTP 3X16 7-685-650-79
- : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-065-715-01	LENS (DELTA 37.AB)	
152	Δ 8-733-572-05	07MXC3(R)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
	Δ 8-733-573-05	07MXC4(R)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
153	Δ 1-451-476-11	DEFLECTION YOKE	
154	* A-1390-834-A	ZR BOARD, COMPLETE	
155	Δ 1-452-790-21	NECK ASSY	
156	* A-1331-781-A	CR BOARD, COMPLETE	
157	Δ 8-733-570-05	07MXC2(G)(DIAPHRAGM), PICTURE TUBE	
158	* A-1390-835-A	ZG BOARD, COMPLETE	
159	* A-1331-782-A	CG BOARD, COMPLETE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
160	Δ 8-733-575-05	07MAC3(B)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
	Δ 8-733-576-05	07MAC4(B)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
161	* A-1390-836-A	ZB BOARD, COMPLETE	
162	* A-1331-783-A	CB BOARD, COMPLETE	
163	Δ 1-223-925-51	RESISTOR ASSY (HIGH-VOLTAGE)	
164	* 4-063-403-01	BRACKET, FOCUS PACK	
165	* 4-057-596-01	BRACKET, HV	
166	Δ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
167	4-373-137-01	CAP (Z), RUBBER	
168	4-057-612-01	SIDE BOARD (L)	
169	4-057-613-01	SIDE BOARD (R)	



SECTION 8 ELECTRICAL PARTS LIST

NOTE:

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

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

- The components identified by \blacktriangle 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.

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

- CAPACITORS**
PF : $\mu\mu$ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1131-321-A	BD BOARD, COMPLETE			C1758	1-104-664-11	ELECT	47 μ F 20% 25V
	*****			C1761	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
				C1762	1-104-664-11	ELECT	47 μ F 20% 25V
	<CAPACITOR>			C1763	1-104-664-11	ELECT	47 μ F 20% 25V
C1701	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V	C1764	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1702	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V	C1766	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V
C1704	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1767	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V
C1705	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C1769	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V
C1707	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1772	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V
C1708	1-104-664-11	ELECT	47 μ F 20% 25V	C1773	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1709	1-126-964-11	ELECT	10 μ F 20% 50V	C1774	1-104-664-11	ELECT	47 μ F 20% 25V
C1710	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C1775	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C1712	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1776	1-104-664-11	ELECT	47 μ F 20% 25V
C1713	1-104-664-11	ELECT	47 μ F 20% 25V	C1777	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1714	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C1780	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1715	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V	C1781	1-104-664-11	ELECT	47 μ F 20% 25V
C1716	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V	C1783	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V
C1718	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1784	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V
C1719	1-163-237-11	CERAMIC CHIP	27PF 5% 50V	C1786	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V
C1721	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1787	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1722	1-104-664-11	ELECT	47 μ F 20% 25V	C1788	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1723	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1789	1-104-664-11	ELECT	47 μ F 20% 25V
C1724	1-104-664-11	ELECT	47 μ F 20% 25V	C1790	1-104-664-11	ELECT	47 μ F 20% 25V
C1725	1-163-231-11	CERAMIC CHIP	15PF 5% 50V	C1791	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1729	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1792	1-104-664-11	ELECT	47 μ F 20% 25V
C1730	1-104-664-11	ELECT	47 μ F 20% 25V	C1793	1-104-664-11	ELECT	47 μ F 20% 25V
C1735	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V	C1794	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1736	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V	C1796	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1738	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1797	1-104-664-11	ELECT	47 μ F 20% 25V
C1739	1-104-664-11	ELECT	47 μ F 20% 25V	C1799	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1740	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1800	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1744	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1801	1-104-664-11	ELECT	47 μ F 20% 25V
C1745	1-104-664-11	ELECT	47 μ F 20% 25V	C1802	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1747	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1803	1-164-695-11	CERAMIC CHIP	0.0022 μ F 5% 50V
C1748	1-104-664-11	ELECT	47 μ F 20% 25V	C1804	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1749	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1805	1-104-664-11	ELECT	47 μ F 20% 25V
C1750	1-104-664-11	ELECT	47 μ F 20% 25V	C1806	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1751	1-163-143-00	CERAMIC CHIP	0.0012 μ F 5% 50V	C1807	1-104-664-11	ELECT	47 μ F 20% 25V
C1752	1-163-020-00	CERAMIC CHIP	0.0082 μ F 10% 50V	C1808	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V
C1754	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C1809	1-104-664-11	ELECT	47 μ F 20% 25V
C1757	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C1810	1-104-664-11	ELECT	47 μ F 20% 25V
				C1811	1-104-664-11	ELECT	47 μ F 20% 25V
				C1812	1-104-664-11	ELECT	47 μ F 20% 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1814	1-104-664-11	ELECT	47μF 20%			<DIODE>	
C1815	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C1816	1-104-664-11	ELECT	47μF 20%	D1701	8-719-404-49	DIODE MA111	
C1817	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D1702	8-719-404-49	DIODE MA111	
C1818	1-104-664-11	ELECT	47μF 20%	D1703	8-719-404-49	DIODE MA111	
				D1704	8-719-404-49	DIODE MA111	
C1819	1-163-038-91	CERAMIC CHIP	0.1μF 25V			<IC>	
C1820	1-163-235-11	CERAMIC CHIP	22PF 5%				
C1821	1-115-339-11	CERAMIC CHIP	0.1μF 10%				
C1822	1-126-934-11	ELECT	220μF 20%	IC1701	8-759-398-25	IC TC7SH04F(TE85L)	
C1823	1-104-664-11	ELECT	47μF 20%	IC1702	8-759-106-02	IC UPC4570G2	
				IC1703	8-752-900-82	IC CXP86324-013Q-TL	
C1824	1-104-664-11	ELECT	47μF 20%	IC1704	8-759-468-90	IC ST24E16FM6TR	
C1825	1-104-664-11	ELECT	47μF 20%	IC1705	8-759-106-02	IC UPC4570G2	
C1827	1-126-934-11	ELECT	220μF 20%				
C1830	1-115-339-11	CERAMIC CHIP	0.1μF 10%	IC1706	8-759-106-02	IC UPC4570G2	
C1831	1-104-664-11	ELECT	47μF 20%	IC1707	8-759-546-26	IC CM0006AF	
				IC1708	8-759-106-02	IC UPC4570G2	
C1832	1-104-664-11	ELECT	47μF 20%	IC1709	8-759-106-02	IC UPC4570G2	
C1833	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC1710	8-759-106-02	IC UPC4570G2	
C1834	1-104-664-11	ELECT	47μF 20%				
C1835	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC1711	8-759-106-02	IC UPC4570G2	
C1836	1-104-664-11	ELECT	47μF 20%	IC1712	8-759-032-20	IC MC74HC32AF	
				IC1713	8-759-546-22	IC UPD6376GS-E2	
C1837	1-104-664-11	ELECT	47μF 20%	IC1714	8-759-546-22	IC UPD6376GS-E2	
C1838	1-104-664-11	ELECT	47μF 20%	IC1715	8-759-546-22	IC UPD6376GS-E2	
C1839	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C1840	1-104-664-11	ELECT	47μF 20%	IC1716	8-759-367-69	IC MC74HC74AFEL	
C1841	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC1718	8-759-352-91	IC PST9143NL	
				IC1719	8-759-546-22	IC UPD6376GS-E2	
C1842	1-104-664-11	ELECT	47μF 20%	IC1720	8-759-546-22	IC UPD6376GS-E2	
C1843	1-104-664-11	ELECT	47μF 20%	IC1721	8-759-546-22	IC UPD6376GS-E2	
C1844	1-104-664-11	ELECT	47μF 20%				
C1845	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC1722	8-759-295-09	IC TLC2932IPW	
C1846	1-104-664-11	ELECT	47μF 20%	IC1723	8-759-485-79	IC TC7SET08FU(TE85L)	
				IC1724	8-759-546-22	IC UPD6376GS-E2	
C1847	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC1725	8-759-485-79	IC TC7SET08FU(TE85L)	
C1857	1-126-967-11	ELECT	47μF 20%				
C1858	1-126-967-11	ELECT	47μF 20%				
C1859	1-164-346-11	CERAMIC CHIP	1μF 16V				
C1860	1-163-038-91	CERAMIC CHIP	0.1μF 25V			<CHIP CONDUCTOR>	
				JR1701	1-216-295-91	CONDUCTOR, CHIP	0
C1861	1-163-038-91	CERAMIC CHIP	0.1μF 25V	JR1702	1-216-295-91	CONDUCTOR, CHIP	0
C1862	1-163-038-91	CERAMIC CHIP	0.1μF 25V	JR1703	1-216-295-91	CONDUCTOR, CHIP	0
C1863	1-163-001-11	CERAMIC CHIP	220PF 10%	JR1704	1-216-295-91	CONDUCTOR, CHIP	0
C1864	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C1870	1-104-664-11	ELECT	47μF 20%			<COIL>	
				L1701	1-410-493-11	INDUCTOR	820μH
C1871	1-104-664-11	ELECT	47μF 20%	L1702	1-410-494-11	INDUCTOR	1mmH
C1872	1-104-664-11	ELECT	47μF 20%	L1703	1-410-470-11	INDUCTOR	10μH
C1873	1-104-664-11	ELECT	47μF 20%	L1704	1-410-470-11	INDUCTOR	10μH
C1874	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L1705	1-410-493-11	INDUCTOR	820μH
C1875	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
				L1706	1-410-494-11	INDUCTOR	1mmH
C1876	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L1707	1-410-470-11	INDUCTOR	10μH
C1877	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L1708	1-410-470-11	INDUCTOR	10μH
C1878	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L1710	1-410-470-11	INDUCTOR	10μH
C1879	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L1711	1-410-493-11	INDUCTOR	820μH
		<CONNECTOR>		L1712	1-410-494-11	INDUCTOR	1mmH
CN1701	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		L1713	1-410-470-11	INDUCTOR	10μH
CN1702	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		L1714	1-414-234-11	INDUCTOR CHIP	0μH
				L1715	1-410-470-11	INDUCTOR	10μH
				L1716	1-410-470-11	INDUCTOR	10μH



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L1717	1-410-493-11	INDUCTOR	820μH	R1715	1-216-025-91	RES,CHIP	100 5% 1/10W
L1718	1-410-494-11	INDUCTOR	1mmH	R1716	1-216-025-91	RES,CHIP	100 5% 1/10W
L1719	1-410-470-11	INDUCTOR	10μH	R1717	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1720	1-410-470-11	INDUCTOR	10μH	R1718	1-216-025-91	RES,CHIP	100 5% 1/10W
L1721	1-414-234-11	INDUCTOR CHIP	0μH	R1719	1-216-025-91	RES,CHIP	100 5% 1/10W
L1722	1-410-493-11	INDUCTOR	820μH	R1720	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1723	1-410-494-11	INDUCTOR	1mmH	R1721	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1724	1-410-470-11	INDUCTOR	10μH	R1722	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
L1725	1-414-234-11	INDUCTOR CHIP	0μH	R1723	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1726	1-410-470-11	INDUCTOR	10μH	R1724	1-216-025-91	RES,CHIP	100 5% 1/10W
L1727	1-410-493-11	INDUCTOR	820μH	R1725	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L1728	1-410-494-11	INDUCTOR	1mmH	R1726	1-208-776-11	RES,CHIP	560 0.50% 1/10W
L1729	1-414-234-11	INDUCTOR CHIP	0μH	R1727	1-216-033-00	RES,CHIP	220 5% 1/10W
L1730	1-410-470-11	INDUCTOR	10μH	R1728	1-216-033-00	RES,CHIP	220 5% 1/10W
L1731	1-410-470-11	INDUCTOR	10μH	R1729	1-216-049-91	RES,CHIP	1K 5% 1/10W
L1732	1-414-234-11	INDUCTOR CHIP	0μH	R1730	1-208-850-11	RES,CHIP	680K 0.50% 1/10W
L1733	1-414-234-11	INDUCTOR CHIP	0μH	R1731	1-216-025-91	RES,CHIP	100 5% 1/10W
L1734	1-414-234-11	INDUCTOR CHIP	0μH	R1732	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
L1735	1-414-234-11	INDUCTOR CHIP	0μH	R1733	1-216-025-91	RES,CHIP	100 5% 1/10W
L1736	1-414-234-11	INDUCTOR CHIP	0μH	R1735	1-216-025-91	RES,CHIP	100 5% 1/10W
L1737	1-414-234-11	INDUCTOR CHIP	0μH	R1736	1-216-025-91	RES,CHIP	100 5% 1/10W
L1738	1-414-234-11	INDUCTOR CHIP	0μH	R1737	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
L1739	1-414-234-11	INDUCTOR CHIP	0μH	R1738	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
L1740	1-414-234-11	INDUCTOR CHIP	0μH	R1739	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
L1741	1-414-234-11	INDUCTOR CHIP	0μH	R1740	1-216-025-91	RES,CHIP	100 5% 1/10W
L1742	1-414-234-11	INDUCTOR CHIP	0μH	R1741	1-216-033-00	RES,CHIP	220 5% 1/10W
L1743	1-414-234-11	INDUCTOR CHIP	0μH	R1742	1-216-025-91	RES,CHIP	100 5% 1/10W
L1744	1-414-234-11	INDUCTOR CHIP	0μH	R1743	1-216-033-00	RES,CHIP	220 5% 1/10W
L1745	1-414-234-11	INDUCTOR CHIP	0μH	R1744	1-216-025-91	RES,CHIP	100 5% 1/10W
L1746	1-414-234-11	INDUCTOR CHIP	0μH	R1745	1-216-033-00	RES,CHIP	220 5% 1/10W
L1750	1-414-234-11	INDUCTOR CHIP	0μH	R1746	1-216-033-00	RES,CHIP	220 5% 1/10W
L1751	1-414-234-11	INDUCTOR CHIP	0μH	R1747	1-216-025-91	RES,CHIP	100 5% 1/10W
<TRANSISTOR>				R1748	1-216-025-91	RES,CHIP	100 5% 1/10W
Q1701	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1749	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q1702	8-729-422-27	TRANSISTOR 2SD601A-Q		R1750	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q1703	8-729-900-53	TRANSISTOR DTC114EK		R1751	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1709	8-729-422-27	TRANSISTOR 2SD601A-Q		R1752	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
Q1710	8-729-422-27	TRANSISTOR 2SD601A-Q		R1753	1-216-049-91	RES,CHIP	1K 5% 1/10W
<RESISTOR>				R1754	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1701	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1755	1-216-025-91	RES,CHIP	100 5% 1/10W
R1702	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1756	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1703	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1757	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1704	1-216-295-91	CONDUCTOR, CHIP	0	R1758	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W
R1705	1-216-025-91	RES,CHIP	100 5% 1/10W	R1759	1-216-025-91	RES,CHIP	100 5% 1/10W
R1706	1-216-025-91	RES,CHIP	100 5% 1/10W	R1760	1-216-025-91	RES,CHIP	100 5% 1/10W
R1707	1-216-025-91	RES,CHIP	100 5% 1/10W	R1761	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1708	1-216-025-91	RES,CHIP	100 5% 1/10W	R1762	1-216-033-00	RES,CHIP	220 5% 1/10W
R1709	1-216-041-00	RES,CHIP	470 5% 1/10W	R1763	1-216-025-91	RES,CHIP	100 5% 1/10W
R1710	1-216-025-91	RES,CHIP	100 5% 1/10W	R1765	1-216-033-00	RES,CHIP	220 5% 1/10W
R1711	1-216-025-91	RES,CHIP	100 5% 1/10W	R1766	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1712	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1767	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1713	1-216-041-00	RES,CHIP	470 5% 1/10W	R1768	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1714	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1769	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1770	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R1771	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1772	1-216-025-91	RES,CHIP	100 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1773	1-216-025-91	RES,CHIP	100 5% 1/10W	R1836	1-216-025-91	RES,CHIP	100 5% 1/10W
R1774	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1837	1-216-025-91	RES,CHIP	100 5% 1/10W
R1775	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1838	1-216-025-91	RES,CHIP	100 5% 1/10W
R1776	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1839	1-216-025-91	RES,CHIP	100 5% 1/10W
R1777	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W				
R1778	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1840	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1779	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1841	1-216-025-91	RES,CHIP	100 5% 1/10W
R1780	1-216-025-91	RES,CHIP	100 5% 1/10W	R1842	1-216-025-91	RES,CHIP	100 5% 1/10W
R1781	1-216-025-91	RES,CHIP	100 5% 1/10W	R1843	1-216-025-91	RES,CHIP	100 5% 1/10W
R1782	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1844	1-216-025-91	RES,CHIP	100 5% 1/10W
R1783	1-216-033-00	RES,CHIP	220 5% 1/10W	R1845	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1784	1-216-025-91	RES,CHIP	100 5% 1/10W	R1846	1-216-025-91	RES,CHIP	100 5% 1/10W
R1785	1-216-025-91	RES,CHIP	100 5% 1/10W	R1847	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1786	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1848	1-216-025-91	RES,CHIP	100 5% 1/10W
R1787	1-216-025-91	RES,CHIP	100 5% 1/10W	R1849	1-216-025-91	RES,CHIP	100 5% 1/10W
R1788	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1850	1-216-025-91	RES,CHIP	100 5% 1/10W
R1789	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1851	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1790	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1853	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1791	1-216-025-91	RES,CHIP	100 5% 1/10W	R1854	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1792	1-216-025-91	RES,CHIP	100 5% 1/10W	R1864	1-208-850-11	RES,CHIP	680K 0.50% 1/10W
R1793	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1865	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1794	1-208-801-11	RES,CHIP	6.2K 0.50% 1/10W	R1866	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1795	1-216-037-00	RES,CHIP	330 5% 1/10W	R1867	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1796	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1868	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1797	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1869	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1798	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1870	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1799	1-208-802-11	RES,CHIP	6.8K 0.50% 1/10W	R1871	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1800	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1872	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1801	1-208-816-11	RES,CHIP	27K 0.50% 1/10W	R1873	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1802	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1874	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1803	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1875	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1804	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1876	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1805	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1877	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1806	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1878	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1807	1-216-037-00	RES,CHIP	330 5% 1/10W	R1879	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1808	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1880	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1809	1-216-025-91	RES,CHIP	100 5% 1/10W	R1881	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1810	1-216-025-91	RES,CHIP	100 5% 1/10W	R1882	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1811	1-216-025-91	RES,CHIP	100 5% 1/10W	R1883	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1819	1-216-025-91	RES,CHIP	100 5% 1/10W	R1885	1-208-793-11	RES,CHIP	3K 0.50% 1/10W
R1820	1-216-025-91	RES,CHIP	100 5% 1/10W	R1886	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1821	1-216-025-91	RES,CHIP	100 5% 1/10W	R1887	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1822	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1888	1-216-295-91	CONDUCTOR, CHIP	0
R1823	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1889	1-216-295-91	CONDUCTOR, CHIP	0
R1824	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1890	1-216-295-91	CONDUCTOR, CHIP	0
R1825	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R1907	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1826	1-216-037-00	RES,CHIP	330 5% 1/10W	R1908	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1827	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1909	1-216-041-00	RES,CHIP	470 5% 1/10W
R1828	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1910	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1829	1-208-799-11	RES,CHIP	5.1K 0.50% 1/10W	R1911	1-216-025-91	RES,CHIP	100 5% 1/10W
R1830	1-216-295-91	CONDUCTOR, CHIP	0	R1912	1-216-025-91	RES,CHIP	100 5% 1/10W
R1831	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1913	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1832	1-216-085-00	RES,CHIP	33K 5% 1/10W	R1914	1-216-295-91	CONDUCTOR, CHIP	0
R1833	1-216-295-91	CONDUCTOR, CHIP	0	R1915	1-216-025-91	RES,CHIP	100 5% 1/10W
R1834	1-216-295-91	CONDUCTOR, CHIP	0	R1916	1-216-025-91	RES,CHIP	100 5% 1/10W
R1835	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1917	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1919	1-216-033-00	RES,CHIP	220 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1920	1-216-033-00	RES,CHIP 220	5% 1/10W	C352	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R1923	1-216-295-91	CONDUCTOR, CHIP	0	C353	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R1925	1-216-295-91	CONDUCTOR, CHIP	0	C354	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R1926	1-216-033-00	RES,CHIP 220	5% 1/10W	C355	1-163-038-91	CERAMIC CHIP 0.1μF	25V
		<CRYSTAL>		C356	1-163-038-91	CERAMIC CHIP 0.1μF	25V
X1701	1-767-925-21	VIBRATOR, CRYSTAL		C357	1-163-038-91	CERAMIC CHIP 0.1μF	25V

	* A-1131-319-A	BR BOARD, COMPLETE		C358	1-163-038-91	CERAMIC CHIP 0.1μF	25V
		*****		C359	1-163-038-91	CERAMIC CHIP 0.1μF	25V
		<CAPACITOR>		C360	1-126-204-11	ELECT CHIP 47μF	20% 16V
C301	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C361	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C302	1-124-779-00	ELECT CHIP 10μF	20% 16V	C362	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C303	1-124-779-00	ELECT CHIP 10μF	20% 16V	C363	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C304	1-124-779-00	ELECT CHIP 10μF	20% 16V	C365	1-126-204-11	ELECT CHIP 47μF	20% 16V
C305	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C366	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C308	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C367	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C309	1-126-204-11	ELECT CHIP 47μF	20% 16V	C368	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C310	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V	C369	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C312	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C370	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C315	1-126-204-11	ELECT CHIP 47μF	20% 16V	C371	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C316	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C372	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C317	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C373	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C318	1-126-204-11	ELECT CHIP 47μF	20% 16V	C374	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C319	1-126-603-11	ELECT CHIP 4.7μF	20% 35V	C375	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C320	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C376	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C322	1-126-603-11	ELECT CHIP 4.7μF	20% 35V	C377	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C323	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C378	1-124-779-00	ELECT CHIP 10μF	20% 16V
C324	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C379	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C325	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C380	1-126-204-11	ELECT CHIP 47μF	20% 16V
C327	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C381	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C330	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C382	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C332	1-126-204-11	ELECT CHIP 47μF	20% 16V	C383	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C333	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C384	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C334	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C385	1-126-204-11	ELECT CHIP 47μF	20% 16V
C335	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C386	1-124-779-00	ELECT CHIP 10μF	20% 16V
C336	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C387	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C337	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C392	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C338	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C393	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C339	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C394	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C340	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C395	1-126-204-11	ELECT CHIP 47μF	20% 16V
C341	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C397	1-124-779-00	ELECT CHIP 10μF	20% 16V
C342	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C398	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C344	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C400	1-126-204-11	ELECT CHIP 47μF	20% 16V
C345	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C401	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C346	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C402	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C348	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C403	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C349	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C405	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C350	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C406	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C351	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C407	1-163-038-91	CERAMIC CHIP 0.1μF	25V
				C408	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
				C409	1-163-038-91	CERAMIC CHIP 0.1μF	25V
				C410	1-163-038-91	CERAMIC CHIP 0.1μF	25V
				C411	1-126-204-11	ELECT CHIP 47μF	20% 16V
				C412	1-164-695-11	CERAMIC CHIP 0.0022μF	5% 50V
				C413	1-164-505-11	CERAMIC CHIP 2.2μF	16V
				C414	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
				C415	1-124-779-00	ELECT CHIP 10μF	20% 16V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C416	1-163-031-11	CERAMIC CHIP	0.01μF	50V	FL306	1-233-878-11	FILTER, LOW PASS
C417	1-163-038-91	CERAMIC CHIP	0.1μF	25V			
C418	1-126-204-11	ELECT CHIP	47μF	20% 16V			
C460	1-163-038-91	CERAMIC CHIP	0.1μF	25V		<IC>	
C461	1-163-038-91	CERAMIC CHIP	0.1μF	25V			
C462	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC301	8-759-430-32	IC TLC2933IPW-E20
C463	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC303	8-759-295-09	IC TLC2932IPW
C464	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC304	8-752-386-47	IC CXD2071R
C465	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC305	8-759-467-20	IC CXD8675R
C466	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC306	8-759-447-90	IC TLC5733AIPM
C467	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC460	8-759-393-55	IC MC74F244MEL
C468	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC461	8-759-393-55	IC MC74F244MEL
C469	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC462	8-752-386-52	IC CXD2070Q
C470	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC463	8-752-384-06	IC CXD2062Q
C471	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC464	8-759-422-80	IC MN47V77ST1
C472	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC465	8-759-422-80	IC MN47V77ST1
C473	1-163-038-91	CERAMIC CHIP	0.1μF	25V	IC466	8-759-239-55	IC TC74HC123AF
C474	1-163-038-91	CERAMIC CHIP	0.1μF	25V			
C475	1-163-038-91	CERAMIC CHIP	0.1μF	25V		<COIL>	
C476	1-163-038-91	CERAMIC CHIP	0.1μF	25V			
C477	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L301	1-414-234-11	INDUCTOR CHIP 0μH
C478	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L302	1-414-234-11	INDUCTOR CHIP 0μH
C479	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L303	1-414-234-11	INDUCTOR CHIP 0μH
C480	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L304	1-412-002-31	INDUCTOR CHIP 4.7μH
C481	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L305	1-414-234-11	INDUCTOR CHIP 0μH
C482	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L306	1-414-234-11	INDUCTOR CHIP 0μH
C483	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L307	1-414-234-11	INDUCTOR CHIP 0μH
C484	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L308	1-414-234-11	INDUCTOR CHIP 0μH
C485	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L309	1-414-234-11	INDUCTOR CHIP 0μH
C486	1-126-204-11	ELECT CHIP	47μF	20% 16V	L310	1-414-234-11	INDUCTOR CHIP 0μH
C487	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L311	1-414-234-11	INDUCTOR CHIP 0μH
C488	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L312	1-414-234-11	INDUCTOR CHIP 0μH
C489	1-126-204-11	ELECT CHIP	47μF	20% 16V	L313	1-414-234-11	INDUCTOR CHIP 0μH
C490	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L315	1-414-234-11	INDUCTOR CHIP 0μH
C491	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L316	1-414-234-11	INDUCTOR CHIP 0μH
C492	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L317	1-414-754-11	INDUCTOR 10μH
C493	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L318	1-414-234-11	INDUCTOR CHIP 0μH
C494	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L460	1-414-234-11	INDUCTOR CHIP 0μH
C495	1-163-038-91	CERAMIC CHIP	0.1μF	25V	L461	1-414-234-11	INDUCTOR CHIP 0μH
C496	1-126-204-11	ELECT CHIP	47μF	20% 16V	L462	1-414-234-11	INDUCTOR CHIP 0μH
		<CONNECTOR>			L463	1-414-234-11	INDUCTOR CHIP 0μH
CN301	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P			L464	1-414-234-11	INDUCTOR CHIP 0μH
CN302	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P			L465	1-414-234-11	INDUCTOR CHIP 0μH
		<DIODE>				<TRANSISTOR>	
D301	8-719-422-12	DIODE MA8039			Q301	8-729-422-27	TRANSISTOR 2SD601A-G
		<FILTER>			Q302	8-729-422-27	TRANSISTOR 2SD601A-G
FL301	1-233-505-21	FILTER, LOW PASS			Q303	8-729-216-22	TRANSISTOR 2SA1162-G
FL302	1-233-504-21	FILTER, LOW PASS			Q306	8-729-422-27	TRANSISTOR 2SD601A-G
FL303	1-233-504-21	FILTER, LOW PASS			Q308	8-729-216-22	TRANSISTOR 2SA1162-G
FL304	1-233-876-11	FILTER, LOW PASS			Q309	8-729-422-27	TRANSISTOR 2SD601A-G
FL305	1-233-876-11	FILTER, LOW PASS			Q312	8-729-216-22	TRANSISTOR 2SA1162-G
					Q314	8-729-422-27	TRANSISTOR 2SD601A-G
					Q317	8-729-216-22	TRANSISTOR 2SA1162-G
					Q318	8-729-216-22	TRANSISTOR 2SA1162-G
					Q319	8-729-216-22	TRANSISTOR 2SA1162-G



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q322	8-729-216-22	TRANSISTOR 2SA1162-G		R367	1-216-041-00	RES,CHIP	470 5% 1/10W
Q323	8-729-216-22	TRANSISTOR 2SA1162-G		R368	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
Q325	8-729-216-22	TRANSISTOR 2SA1162-G		R372	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q326	8-729-216-22	TRANSISTOR 2SA1162-G		R374	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
Q401	8-729-422-27	TRANSISTOR 2SD601A-Q		R375	1-208-752-11	RES,CHIP	56 0.50% 1/10W
Q402	8-729-422-27	TRANSISTOR 2SD601A-Q		R376	1-208-752-11	RES,CHIP	56 0.50% 1/10W
Q403	8-729-422-27	TRANSISTOR 2SD601A-Q		R378	1-216-041-00	RES,CHIP	470 5% 1/10W
		<RESISTOR>		R379	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
				R380	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R302	1-216-073-00	RES,CHIP 10K	5% 1/10W	R381	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R303	1-216-037-00	RES,CHIP 330	5% 1/10W	R382	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R304	1-216-037-00	RES,CHIP 330	5% 1/10W	R384	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R305	1-208-795-11	RES,CHIP 3.6K	0.50% 1/10W	R391	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R306	1-216-097-91	RES,CHIP 100K	5% 1/10W	R393	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R307	1-216-117-00	RES,CHIP 680K	5% 1/10W	R394	1-216-295-91	CONDUCTOR, CHIP	0
R309	1-216-295-91	CONDUCTOR, CHIP	0	R397	1-216-041-00	RES,CHIP	470 5% 1/10W
R311	1-216-117-00	RES,CHIP 680K	5% 1/10W	R398	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
R312	1-216-089-91	RES,CHIP 47K	5% 1/10W	R399	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R313	1-216-033-00	RES,CHIP 220	5% 1/10W	R400	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R314	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	R401	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R315	1-208-799-11	RES,CHIP 5.1K	0.50% 1/10W	R402	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R317	1-216-061-00	RES,CHIP 3.3K	5% 1/10W	R403	1-216-041-00	RES,CHIP	470 5% 1/10W
R318	1-216-295-91	CONDUCTOR, CHIP	0	R404	1-216-077-00	RES,CHIP	15K 5% 1/10W
R320	1-216-295-91	CONDUCTOR, CHIP	0	R405	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R321	1-216-295-91	CONDUCTOR, CHIP	0	R406	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R322	1-216-049-91	RES,CHIP 1K	5% 1/10W	R407	1-216-025-91	RES,CHIP	100 5% 1/10W
R323	1-216-117-00	RES,CHIP 680K	5% 1/10W	R408	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R325	1-216-047-91	RES,CHIP 820	5% 1/10W	R409	1-208-782-11	RES,CHIP	1K 0.50% 1/10W
R326	1-216-049-91	RES,CHIP 1K	5% 1/10W	R410	1-216-041-00	RES,CHIP	470 5% 1/10W
R327	1-216-117-00	RES,CHIP 680K	5% 1/10W	R411	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W
R328	1-216-117-00	RES,CHIP 680K	5% 1/10W	R412	1-216-077-00	RES,CHIP	15K 5% 1/10W
R329	1-216-295-91	CONDUCTOR, CHIP	0	R413	1-216-025-91	RES,CHIP	100 5% 1/10W
R330	1-216-295-91	CONDUCTOR, CHIP	0	R414	1-208-765-11	RES,CHIP	200 0.50% 1/10W
R331	1-216-295-91	CONDUCTOR, CHIP	0	R415	1-216-049-91	RES,CHIP	1K 5% 1/10W
R332	1-216-295-91	CONDUCTOR, CHIP	0	R416	1-216-077-00	RES,CHIP	15K 5% 1/10W
R334	1-216-081-00	RES,CHIP 22K	5% 1/10W	R417	1-216-077-00	RES,CHIP	15K 5% 1/10W
R340	1-216-047-91	RES,CHIP 820	5% 1/10W	R418	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R343	1-216-295-91	CONDUCTOR, CHIP	0	R419	1-216-079-00	RES,CHIP	18K 5% 1/10W
R344	1-216-091-00	RES,CHIP 56K	5% 1/10W	R420	1-216-049-91	RES,CHIP	1K 5% 1/10W
R345	1-216-295-91	CONDUCTOR, CHIP	0	R421	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R348	1-216-295-91	CONDUCTOR, CHIP	0	R422	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R349	1-216-295-91	CONDUCTOR, CHIP	0	R424	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R351	1-216-295-91	CONDUCTOR, CHIP	0	R425	1-216-295-91	CONDUCTOR, CHIP	0
R352	1-216-295-91	CONDUCTOR, CHIP	0	R426	1-216-295-91	CONDUCTOR, CHIP	0
R356	1-216-025-91	RES,CHIP 100	5% 1/10W	R427	1-216-025-91	RES,CHIP	100 5% 1/10W
R357	1-216-025-91	RES,CHIP 100	5% 1/10W	R429	1-208-765-11	RES,CHIP	200 0.50% 1/10W
R358	1-216-055-00	RES,CHIP 1.8K	5% 1/10W	R430	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R359	1-216-061-00	RES,CHIP 3.3K	5% 1/10W	R433	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R360	1-208-798-11	RES,CHIP 4.7K	0.50% 1/10W	R438	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R361	1-216-055-00	RES,CHIP 1.8K	5% 1/10W	R439	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R362	1-216-061-00	RES,CHIP 3.3K	5% 1/10W	R440	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R363	1-216-025-91	RES,CHIP 100	5% 1/10W	R441	1-208-752-11	RES,CHIP	56 0.50% 1/10W
R364	1-216-041-00	RES,CHIP 470	5% 1/10W	R442	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R365	1-216-295-91	CONDUCTOR, CHIP	0	R443	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R366	1-216-295-91	CONDUCTOR, CHIP	0	R445	1-208-765-11	RES,CHIP	200 0.50% 1/10W
				R447	1-216-295-91	CONDUCTOR, CHIP	0
				R448	1-216-295-91	CONDUCTOR, CHIP	0



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R449	1-216-295-91	CONDUCTOR, CHIP	0	C035	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R450	1-216-295-91	CONDUCTOR, CHIP	0	C036	1-126-204-11	ELECT CHIP 47μF	20% 16V
R451	1-216-295-91	CONDUCTOR, CHIP	0	C037	1-126-204-11	ELECT CHIP 47μF	20% 16V
R452	1-216-295-91	CONDUCTOR, CHIP	0	C038	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R453	1-216-295-91	CONDUCTOR, CHIP	0	C039	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R454	1-216-295-91	CONDUCTOR, CHIP	0	C040	1-126-204-11	ELECT CHIP 47μF	20% 16V
R455	1-216-295-91	CONDUCTOR, CHIP	0	C042	1-104-760-11	CERAMIC CHIP 0.047μF	10% 50V
R456	1-216-295-91	CONDUCTOR, CHIP	0	C043	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
R457	1-216-295-91	CONDUCTOR, CHIP	0	C044	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
R458	1-216-295-91	CONDUCTOR, CHIP	0	C045	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R459	1-208-786-11	RES,CHIP 1.5K	0.50% 1/10W	C046	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R462	1-216-295-91	CONDUCTOR, CHIP	0	C047	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R463	1-216-295-91	CONDUCTOR, CHIP	0	C050	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
R464	1-216-295-91	CONDUCTOR, CHIP	0	C052	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R466	1-216-295-91	CONDUCTOR, CHIP	0	C053	1-126-204-11	ELECT CHIP 47μF	20% 16V
R468	1-208-778-11	RES,CHIP 680	0.50% 1/10W	C054	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R469	1-208-778-11	RES,CHIP 680	0.50% 1/10W	C055	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R470	1-208-770-11	RES,CHIP 330	0.50% 1/10W	C056	1-126-204-11	ELECT CHIP 47μF	20% 16V
R471	1-208-770-11	RES,CHIP 330	0.50% 1/10W	C058	1-164-005-11	CERAMIC CHIP 0.47μF	16V
				C059	1-126-204-11	ELECT CHIP 47μF	20% 16V
				C060	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
				C062	1-163-231-11	CERAMIC CHIP 15PF	5% 50V

	* A-1131-320-A	BM BOARD, COMPLETE		C063	1-163-038-91	CERAMIC CHIP 0.1μF	25V
		*****		C064	1-126-204-11	ELECT CHIP 47μF	20% 16V
				C066	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
				C067	1-164-005-11	CERAMIC CHIP 0.47μF	16V
				C068	1-163-038-91	CERAMIC CHIP 0.1μF	25V
	<CAPACITOR>			C069	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C001	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C070	1-126-204-11	ELECT CHIP 47μF	20% 16V
C002	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	C071	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C003	1-104-760-11	CERAMIC CHIP 0.047μF	10% 50V	C072	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C004	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C073	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C005	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C074	1-126-204-11	ELECT CHIP 47μF	20% 16V
C006	1-126-204-11	ELECT CHIP 47μF	20% 16V	C075	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
C009	1-126-204-11	ELECT CHIP 47μF	20% 16V	C076	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C010	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C077	1-126-204-11	ELECT CHIP 47μF	20% 16V
C011	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C078	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C012	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C081	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
C013	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C082	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C014	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C083	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C015	1-126-204-11	ELECT CHIP 47μF	20% 16V	C084	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C016	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C085	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C017	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C086	1-126-204-11	ELECT CHIP 47μF	20% 16V
C018	1-126-204-11	ELECT CHIP 47μF	20% 16V	C087	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C019	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C089	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C021	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C090	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C022	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C091	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C023	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C092	1-126-204-11	ELECT CHIP 47μF	20% 16V
C024	1-126-204-11	ELECT CHIP 47μF	20% 16V	C093	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C025	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C094	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C026	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C095	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C028	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C096	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C030	1-124-779-00	ELECT CHIP 10μF	20% 16V	C097	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C031	1-164-346-11	CERAMIC CHIP 1μF	16V	C098	1-126-204-11	ELECT CHIP 47μF	20% 16V
C032	1-164-346-11	CERAMIC CHIP 1μF	16V	C100	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C034	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C101	1-163-038-91	CERAMIC CHIP 0.1μF	25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C102	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C160	1-126-204-11	ELECT CHIP	47μF 20% 16V
C103	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C161	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C104	1-126-204-11	ELECT CHIP	47μF 20% 16V	<CONNECTOR>			
C105	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN001	1-573-301-21	CONNECTOR, BOARD TO BOARD	20P
C106	1-126-204-11	ELECT CHIP	47μF 20% 16V	CN002	1-573-301-21	CONNECTOR, BOARD TO BOARD	20P
C107	1-163-038-91	CERAMIC CHIP	0.1μF 25V	<DIODE>			
C108	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D001	8-719-404-49	DIODE MA111	
C109	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D002	8-719-404-49	DIODE MA111	
C110	1-124-779-00	ELECT CHIP	10μF 20% 16V	D003	8-719-404-49	DIODE MA111	
C111	1-124-779-00	ELECT CHIP	10μF 20% 16V	<FILTER>			
C112	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL001	1-233-505-21	FILTER, LOW PASS	
C113	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL002	1-233-504-21	FILTER, LOW PASS	
C114	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL003	1-233-504-21	FILTER, LOW PASS	
C115	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL007	1-233-505-21	FILTER, LOW PASS	
C116	1-126-204-11	ELECT CHIP	47μF 20% 16V	FL008	1-233-945-21	FILTER, LOW PASS	
C117	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL009	1-233-944-21	FILTER, LOW PASS	
C118	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL010	1-233-504-21	FILTER, LOW PASS	
C119	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	FL011	1-233-944-21	FILTER, LOW PASS	
C120	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V	FL012	1-233-504-21	FILTER, LOW PASS	
C121	1-163-038-91	CERAMIC CHIP	0.1μF 25V	<IC>			
C122	1-124-779-00	ELECT CHIP	10μF 20% 16V	IC001	8-759-467-22	IC MSM548331TS-K	
C123	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC002	8-759-295-09	IC TLC2932IPW	
C124	1-126-204-11	ELECT CHIP	47μF 20% 16V	IC003	8-752-388-99	IC CXD2303AQ-TL	
C125	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC004	8-759-485-79	IC TC7SET08FU(TE85L)	
C126	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC005	8-759-527-74	IC M24C02-MN6T	
C127	1-126-204-11	ELECT CHIP	47μF 20% 16V	IC006	8-759-352-91	IC PST9143NL	
C128	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	IC007	8-759-485-79	IC TC7SET08FU(TE85L)	
C129	1-126-204-11	ELECT CHIP	47μF 20% 16V	IC008	8-759-295-09	IC TLC2932IPW	
C130	1-124-779-00	ELECT CHIP	10μF 20% 16V	IC009	8-752-900-80	IC CXP85840A-015Q-TL	
C131	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC010	8-752-392-55	IC CXD2079Q	
C132	1-126-204-11	ELECT CHIP	47μF 20% 16V	IC011	8-759-295-09	IC TLC2932IPW	
C133	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC012	8-759-485-79	IC TC7SET08FU(TE85L)	
C134	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC013	8-759-467-22	IC MSM548331TS-K	
C135	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC014	8-752-388-99	IC CXD2303AQ-TL	
C136	1-163-038-91	CERAMIC CHIP	0.1μF 25V	<COIL>			
C137	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L001	1-414-234-11	INDUCTOR CHIP	0μH
C138	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L002	1-414-234-11	INDUCTOR CHIP	0μH
C141	1-124-779-00	ELECT CHIP	10μF 20% 16V	L003	1-414-234-11	INDUCTOR CHIP	0μH
C142	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L004	1-414-234-11	INDUCTOR CHIP	0μH
C143	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L005	1-414-234-11	INDUCTOR CHIP	0μH
C144	1-126-204-11	ELECT CHIP	47μF 20% 16V	L006	1-414-234-11	INDUCTOR CHIP	0μH
C145	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L007	1-414-754-11	INDUCTOR	10μH
C146	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L008	1-414-754-11	INDUCTOR	10μH
C147	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L009	1-414-754-11	INDUCTOR	10μH
C148	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L010	1-414-234-11	INDUCTOR CHIP	0μH
C149	1-126-204-11	ELECT CHIP	47μF 20% 16V	L011	1-414-754-11	INDUCTOR	10μH
C150	1-126-204-11	ELECT CHIP	47μF 20% 16V	L012	1-414-754-11	INDUCTOR	10μH
C151	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C152	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C153	1-124-779-00	ELECT CHIP	10μF 20% 16V				
C154	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C155	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C156	1-124-779-00	ELECT CHIP	10μF 20% 16V				
C157	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C158	1-126-204-11	ELECT CHIP	47μF 20% 16V				
C159	1-163-038-91	CERAMIC CHIP	0.1μF 25V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L013	1-414-234-11	INDUCTOR CHIP 0μH		R022	1-216-049-91	RES,CHIP 1K	5% 1/10W
L014	1-414-754-11	INDUCTOR 10μH		R023	1-208-754-11	RES,CHIP 68	0.50% 1/10W
L015	1-414-234-11	INDUCTOR CHIP 0μH		R024	1-208-776-11	RES,CHIP 560	0.50% 1/10W
L016	1-414-234-11	INDUCTOR CHIP 0μH		R025	1-208-754-11	RES,CHIP 68	0.50% 1/10W
L017	1-414-234-11	INDUCTOR CHIP 0μH		R026	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
L018	1-414-234-11	INDUCTOR CHIP 0μH		R027	1-208-754-11	RES,CHIP 68	0.50% 1/10W
L019	1-414-234-11	INDUCTOR CHIP 0μH		R028	1-208-770-11	RES,CHIP 330	0.50% 1/10W
L020	1-414-234-11	INDUCTOR CHIP 0μH		R029	1-208-800-11	RES,CHIP 5.6K	0.50% 1/10W
L021	1-414-234-11	INDUCTOR CHIP 0μH		R030	1-216-049-91	RES,CHIP 1K	5% 1/10W
L022	1-414-234-11	INDUCTOR CHIP 0μH		R032	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
L023	1-414-234-11	INDUCTOR CHIP 0μH		R033	1-208-776-11	RES,CHIP 560	0.50% 1/10W
L024	1-414-234-11	INDUCTOR CHIP 0μH		R035	1-216-013-00	RES,CHIP 33	5% 1/10W
L025	1-414-234-11	INDUCTOR CHIP 0μH		R036	1-216-013-00	RES,CHIP 33	5% 1/10W
L026	1-414-234-11	INDUCTOR CHIP 0μH		R037	1-216-033-00	RES,CHIP 220	5% 1/10W
L027	1-414-234-11	INDUCTOR CHIP 0μH		R038	1-208-754-11	RES,CHIP 68	0.50% 1/10W
L028	1-414-234-11	INDUCTOR CHIP 0μH		R039	1-208-800-11	RES,CHIP 5.6K	0.50% 1/10W
		<TRANSISTOR>		R040	1-208-754-11	RES,CHIP 68	0.50% 1/10W
Q001	8-729-422-27	TRANSISTOR 2SD601A-Q		R042	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R046	1-216-037-00	RES,CHIP 330	5% 1/10W
Q006	8-729-422-27	TRANSISTOR 2SD601A-Q		R048	1-216-025-91	RES,CHIP 100	5% 1/10W
Q007	8-729-216-22	TRANSISTOR 2SA1162-G		R050	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q009	8-729-422-27	TRANSISTOR 2SD601A-Q		R052	1-208-754-11	RES,CHIP 68	0.50% 1/10W
Q010	8-729-216-22	TRANSISTOR 2SA1162-G		R059	1-216-295-91	CONDUCTOR, CHIP 0	
Q018	8-729-216-22	TRANSISTOR 2SA1162-G		R060	1-208-754-11	RES,CHIP 68	0.50% 1/10W
Q019	8-729-422-27	TRANSISTOR 2SD601A-Q		R061	1-216-025-91	RES,CHIP 100	5% 1/10W
Q020	8-729-216-22	TRANSISTOR 2SA1162-G		R064	1-216-041-00	RES,CHIP 470	5% 1/10W
Q021	8-729-216-22	TRANSISTOR 2SA1162-G		R065	1-216-025-91	RES,CHIP 100	5% 1/10W
Q022	8-729-216-22	TRANSISTOR 2SA1162-G		R066	1-216-033-00	RES,CHIP 220	5% 1/10W
Q023	8-729-422-27	TRANSISTOR 2SD601A-Q		R067	1-216-033-00	RES,CHIP 220	5% 1/10W
Q025	8-729-216-22	TRANSISTOR 2SA1162-G		R070	1-216-033-00	RES,CHIP 220	5% 1/10W
Q026	8-729-216-22	TRANSISTOR 2SA1162-G		R072	1-216-295-91	CONDUCTOR, CHIP 0	
Q027	8-729-216-22	TRANSISTOR 2SA1162-G		R073	1-216-295-91	CONDUCTOR, CHIP 0	
Q028	8-729-216-22	TRANSISTOR 2SA1162-G		R074	1-216-295-91	CONDUCTOR, CHIP 0	
Q029	8-729-422-27	TRANSISTOR 2SD601A-Q		R075	1-216-295-91	CONDUCTOR, CHIP 0	
Q030	8-729-216-22	TRANSISTOR 2SA1162-G		R076	1-216-295-91	CONDUCTOR, CHIP 0	
Q031	8-729-422-27	TRANSISTOR 2SD601A-Q		R077	1-216-295-91	CONDUCTOR, CHIP 0	
Q032	1-801-806-11	TRANSISTOR DTC144EKA-T146		R078	1-208-797-11	RES,CHIP 4.3K	0.50% 1/10W
		<RESISTOR>		R079	1-216-025-91	RES,CHIP 100	5% 1/10W
R001	1-216-117-00	RES,CHIP 680K	5% 1/10W	R080	1-216-025-91	RES,CHIP 100	5% 1/10W
R002	1-216-051-00	RES,CHIP 1.2K	5% 1/10W	R081	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R003	1-216-295-91	CONDUCTOR, CHIP 0		R082	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R007	1-216-041-00	RES,CHIP 470	5% 1/10W	R086	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R008	1-208-800-11	RES,CHIP 5.6K	0.50% 1/10W	R087	1-216-117-00	RES,CHIP 680K	5% 1/10W
R009	1-216-049-91	RES,CHIP 1K	5% 1/10W	R090	1-216-025-91	RES,CHIP 100	5% 1/10W
R010	1-216-295-91	CONDUCTOR, CHIP 0		R091	1-216-295-91	CONDUCTOR, CHIP 0	
R012	1-208-794-11	RES,CHIP 3.3K	0.50% 1/10W	R093	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
R013	1-216-041-00	RES,CHIP 470	5% 1/10W	R094	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R014	1-208-776-11	RES,CHIP 560	0.50% 1/10W	R098	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R016	1-216-013-00	RES,CHIP 33	5% 1/10W	R099	1-216-117-00	RES,CHIP 680K	5% 1/10W
R018	1-216-295-91	CONDUCTOR, CHIP 0		R100	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R019	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	R101	1-216-295-91	CONDUCTOR, CHIP 0	
R020	1-216-049-91	RES,CHIP 1K	5% 1/10W	R102	1-216-041-00	RES,CHIP 470	5% 1/10W
R021	1-216-049-91	RES,CHIP 1K	5% 1/10W	R106	1-216-085-00	RES,CHIP 33K	5% 1/10W
				R107	1-216-295-91	CONDUCTOR, CHIP 0	
				R108	1-216-033-00	RES,CHIP 220	5% 1/10W
				R109	1-216-033-00	RES,CHIP 220	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R110	1-216-033-00	RES,CHIP	220 5% 1/10W	R177	1-216-049-91	RES,CHIP	1K 5% 1/10W
R111	1-216-033-00	RES,CHIP	220 5% 1/10W	R178	1-216-025-91	RES,CHIP	100 5% 1/10W
R112	1-216-049-91	RES,CHIP	1K 5% 1/10W	R181	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R113	1-216-033-00	RES,CHIP	220 5% 1/10W	R182	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R118	1-216-025-91	RES,CHIP	100 5% 1/10W	R183	1-216-049-91	RES,CHIP	1K 5% 1/10W
R119	1-216-085-00	RES,CHIP	33K 5% 1/10W	R185	1-216-049-91	RES,CHIP	1K 5% 1/10W
R120	1-216-295-91	CONDUCTOR, CHIP	0	R194	1-216-295-91	CONDUCTOR, CHIP	0
R121	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R195	1-216-049-91	RES,CHIP	1K 5% 1/10W
R122	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R198	1-216-025-91	RES,CHIP	100 5% 1/10W
R123	1-216-025-91	RES,CHIP	100 5% 1/10W	R200	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R124	1-216-049-91	RES,CHIP	1K 5% 1/10W	R201	1-216-033-00	RES,CHIP	220 5% 1/10W
R125	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R202	1-216-037-00	RES,CHIP	330 5% 1/10W
R127	1-216-049-91	RES,CHIP	1K 5% 1/10W	R203	1-216-049-91	RES,CHIP	1K 5% 1/10W
R128	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R204	1-216-049-91	RES,CHIP	1K 5% 1/10W
R129	1-216-025-91	RES,CHIP	100 5% 1/10W	R205	1-216-049-91	RES,CHIP	1K 5% 1/10W
R130	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R206	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R131	1-216-033-00	RES,CHIP	220 5% 1/10W	R207	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R132	1-216-025-91	RES,CHIP	100 5% 1/10W	R208	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R133	1-216-025-91	RES,CHIP	100 5% 1/10W	R210	1-216-013-00	RES,CHIP	33 5% 1/10W
R134	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R212	1-216-013-00	RES,CHIP	33 5% 1/10W
R135	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R214	1-216-041-00	RES,CHIP	470 5% 1/10W
R136	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R215	1-216-295-91	CONDUCTOR, CHIP	0
R137	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R216	1-208-794-11	RES,CHIP	3.3K 0.50% 1/10W
R138	1-208-770-11	RES,CHIP	330 0.50% 1/10W	R217	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R139	1-216-025-91	RES,CHIP	100 5% 1/10W	R218	1-216-117-00	RES,CHIP	680K 5% 1/10W
R140	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R219	1-216-013-00	RES,CHIP	33 5% 1/10W
R141	1-216-117-00	RES,CHIP	680K 5% 1/10W	R220	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R142	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R221	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R143	1-216-049-91	RES,CHIP	1K 5% 1/10W	R222	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R144	1-216-041-00	RES,CHIP	470 5% 1/10W	R223	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R145	1-216-085-00	RES,CHIP	33K 5% 1/10W	R226	1-216-295-91	CONDUCTOR, CHIP	0
R146	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R227	1-216-295-91	CONDUCTOR, CHIP	0
R147	1-216-049-91	RES,CHIP	1K 5% 1/10W	R228	1-216-295-91	CONDUCTOR, CHIP	0
R148	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R229	1-216-295-91	CONDUCTOR, CHIP	0
R149	1-216-025-91	RES,CHIP	100 5% 1/10W	R230	1-216-295-91	CONDUCTOR, CHIP	0
R150	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R231	1-216-295-91	CONDUCTOR, CHIP	0
R151	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R232	1-216-295-91	CONDUCTOR, CHIP	0
R153	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R233	1-216-295-91	CONDUCTOR, CHIP	0
R154	1-216-025-91	RES,CHIP	100 5% 1/10W	R234	1-216-295-91	CONDUCTOR, CHIP	0
R155	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R235	1-216-295-91	CONDUCTOR, CHIP	0
R156	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R236	1-216-295-91	CONDUCTOR, CHIP	0
R157	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R237	1-216-295-91	CONDUCTOR, CHIP	0
R159	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R238	1-216-295-91	CONDUCTOR, CHIP	0
R160	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R239	1-216-295-91	CONDUCTOR, CHIP	0
R161	1-216-295-91	CONDUCTOR, CHIP	0	R240	1-216-295-91	CONDUCTOR, CHIP	0
R163	1-208-762-11	RES,CHIP	150 0.50% 1/10W	R241	1-216-295-91	CONDUCTOR, CHIP	0
R164	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R242	1-216-295-91	CONDUCTOR, CHIP	0
R165	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R243	1-216-295-91	CONDUCTOR, CHIP	0
R166	1-216-049-91	RES,CHIP	1K 5% 1/10W	R244	1-216-295-91	CONDUCTOR, CHIP	0
R167	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R245	1-216-295-91	CONDUCTOR, CHIP	0
R170	1-216-019-00	RES,CHIP	56 5% 1/10W	R246	1-216-295-91	CONDUCTOR, CHIP	0
R171	1-216-121-91	RES,CHIP	1M 5% 1/10W	R247	1-216-295-91	CONDUCTOR, CHIP	0
R172	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R248	1-216-295-91	CONDUCTOR, CHIP	0
R173	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R249	1-216-295-91	CONDUCTOR, CHIP	0
R175	1-216-049-91	RES,CHIP	1K 5% 1/10W	R250	1-216-295-91	CONDUCTOR, CHIP	0
R176	1-216-049-91	RES,CHIP	1K 5% 1/10W	R251	1-216-295-91	CONDUCTOR, CHIP	0
				R252	1-216-295-91	CONDUCTOR, CHIP	0



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R253	1-216-295-91	CONDUCTOR, CHIP	0	C533	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R254	1-216-049-91	RES,CHIP 1K	5%	C534	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R257	1-216-295-91	CONDUCTOR, CHIP	0	C535	1-104-665-11	ELECT 100μF	20% 25V
R258	1-216-049-91	RES,CHIP 1K	5%	C536	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
R259	1-216-295-91	CONDUCTOR, CHIP	0	C537	1-104-664-11	ELECT 47μF	20% 25V
R260	1-216-295-91	CONDUCTOR, CHIP	0	C538	1-126-964-11	ELECT 10μF	20% 50V
R261	1-216-295-91	CONDUCTOR, CHIP	0	C539	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R262	1-216-295-91	CONDUCTOR, CHIP	0	C540	1-126-918-11	ELECT 4700μF	20% 6.3V
R263	1-216-295-91	CONDUCTOR, CHIP	0	C541	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R273	1-216-033-00	RES,CHIP 220	5%	C542	1-163-038-91	CERAMIC CHIP 0.1μF	25V
R274	1-216-065-91	RES,CHIP 4.7K	5%	C543	1-126-960-11	ELECT 1μF	20% 50V
<CRYSTAL>				C545	1-126-964-11	ELECT 10μF	20% 50V
X001	1-767-924-21	VIBRATOR, CRYSTAL		C546	1-163-145-00	CERAMIC CHIP 0.0015μF	5% 50V
X002	1-767-654-21	VIBRATOR, CRYSTAL		C548	1-163-012-00	CERAMIC CHIP 0.0018μF	5% 50V
*****				C550	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
* A-1298-500-A A BOARD, COMPLETE				C551	1-163-038-91	CERAMIC CHIP 0.1μF	25V
*****				C552	1-126-934-11	ELECT 220μF	20% 16V
4-382-854-11 SCREW (M3X10), P, SW (+)				C553	1-126-960-11	ELECT 1μF	20% 50V
<CAPACITOR>				C554	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C501	1-126-933-11	ELECT 100μF	20%	C555	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C502	1-163-038-91	CERAMIC CHIP 0.1μF		C557	1-126-960-11	ELECT 1μF	20% 50V
C503	1-163-038-91	CERAMIC CHIP 0.1μF		C558	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C504	1-104-665-11	ELECT 100μF	20%	C559	1-126-963-11	ELECT 4.7μF	20% 50V
C505	1-163-031-11	CERAMIC CHIP 0.01μF		C560	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C506	1-164-505-11	CERAMIC CHIP 2.2μF		C561	1-104-664-11	ELECT 47μF	20% 25V
C507	1-126-933-11	ELECT 100μF	20%	C562	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C510	1-126-916-11	ELECT 1000μF	20%	C563	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C511	1-163-038-91	CERAMIC CHIP 0.1μF		C564	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C512	1-163-038-91	CERAMIC CHIP 0.1μF		C567	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C513	1-126-933-11	ELECT 100μF	20%	C569	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C514	1-163-038-91	CERAMIC CHIP 0.1μF		C570	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C515	1-104-664-11	ELECT 47μF	20%	C571	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C516	1-104-664-11	ELECT 47μF	20%	C572	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C517	1-163-038-91	CERAMIC CHIP 0.1μF		C574	1-126-960-11	ELECT 1μF	20% 50V
C518	1-126-933-11	ELECT 100μF	20%	C575	1-109-982-11	CERAMIC CHIP 1μF	10% 10V
C519	1-163-038-91	CERAMIC CHIP 0.1μF		C576	1-164-182-11	CERAMIC CHIP 0.0033μF	10% 50V
C520	1-126-964-11	ELECT 10μF	20%	C577	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C521	1-163-145-00	CERAMIC CHIP 0.0015μF	5%	C580	1-164-182-11	CERAMIC CHIP 0.0033μF	10% 50V
C522	1-163-143-00	CERAMIC CHIP 0.0012μF	5%	C581	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C523	1-163-021-91	CERAMIC CHIP 0.01μF	10%	C582	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
C524	1-104-664-11	ELECT 47μF	20%	C583	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C525	1-163-139-00	CERAMIC CHIP 820PF	5%	C584	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C526	1-163-017-00	CERAMIC CHIP 0.0047μF	10%	C585	1-126-933-11	ELECT 100μF	20% 16V
C527	1-126-933-11	ELECT 100μF	20%	C586	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C528	1-126-916-11	ELECT 1000μF	20%	C587	1-104-664-11	ELECT 47μF	20% 25V
C529	1-163-038-91	CERAMIC CHIP 0.1μF		C588	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C530	1-163-038-91	CERAMIC CHIP 0.1μF		C589	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C531	1-126-933-11	ELECT 100μF	20%	C590	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C532	1-126-933-11	ELECT 100μF	20%	C591	1-163-038-91	CERAMIC CHIP 0.1μF	25V
				C592	1-104-664-11	ELECT 47μF	20% 25V
				C593	1-126-964-11	ELECT 10μF	20% 50V
				C595	1-163-038-91	CERAMIC CHIP 0.1μF	25V
				C596	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
				C598	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C599	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C600	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C601	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V	C665	1-104-664-11	ELECT	47μF 20% 25V
C602	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C666	1-165-319-11	CERAMIC CHIP	0.1μF 50V
C603	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C667	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C604	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C668	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C605	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C669	1-126-935-11	ELECT	470μF 20% 16V
C606	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C670	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C607	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C671	1-104-664-11	ELECT	47μF 20% 25V
C608	1-126-964-11	ELECT	10μF 20% 50V	C672	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C610	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C673	1-126-965-11	ELECT	22μF 20% 50V
C611	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C675	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V
C612	1-104-664-11	ELECT	47μF 20% 25V	C676	1-104-664-11	ELECT	47μF 20% 25V
C613	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C677	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C614	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C678	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C615	1-126-933-11	ELECT	100μF 20% 16V	C683	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C616	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C685	1-126-960-11	ELECT	1μF 20% 50V
C617	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C686	1-126-965-11	ELECT	22μF 20% 50V
C618	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C687	1-126-960-11	ELECT	1μF 20% 50V
C619	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C688	1-126-960-11	ELECT	1μF 20% 50V
C621	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C689	1-126-965-11	ELECT	22μF 20% 50V
C622	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C690	1-126-960-11	ELECT	1μF 20% 50V
C623	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C691	1-126-964-11	ELECT	10μF 20% 50V
C624	1-104-664-11	ELECT	47μF 20% 25V	C692	1-126-964-11	ELECT	10μF 20% 50V
C625	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C693	1-126-965-11	ELECT	22μF 20% 50V
C626	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C694	1-126-965-11	ELECT	22μF 20% 50V
C627	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C696	1-126-965-11	ELECT	22μF 20% 50V
C628	1-104-664-11	ELECT	47μF 20% 25V	C697	1-126-965-11	ELECT	22μF 20% 50V
C629	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C698	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C630	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C699	1-126-965-11	ELECT	22μF 20% 50V
C631	1-164-346-11	CERAMIC CHIP	1μF 16V	C700	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C632	1-109-982-11	CERAMIC CHIP	1μF 10% 10V	C701	1-126-965-11	ELECT	22μF 20% 50V
C636	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C702	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C637	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C703	1-126-965-11	ELECT	22μF 20% 50V
C638	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V	C704	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C639	1-126-933-11	ELECT	100μF 20% 16V	C706	1-126-965-11	ELECT	22μF 20% 50V
C640	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C707	1-126-960-11	ELECT	1μF 20% 50V
C641	1-104-664-11	ELECT	47μF 20% 25V	C708	1-126-960-11	ELECT	1μF 20% 50V
C642	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C709	1-126-965-11	ELECT	22μF 20% 50V
C643	1-163-259-91	CERAMIC CHIP	220PF 5% 50V	C710	1-126-960-11	ELECT	1μF 20% 50V
C644	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C711	1-126-960-11	ELECT	1μF 20% 50V
C646	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C712	1-126-965-11	ELECT	22μF 20% 50V
C647	1-104-664-11	ELECT	47μF 20% 25V	C713	1-126-960-11	ELECT	1μF 20% 50V
C648	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C714	1-126-960-11	ELECT	1μF 20% 50V
C649	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C715	1-126-965-11	ELECT	22μF 20% 50V
C650	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C716	1-126-960-11	ELECT	1μF 20% 50V
C651	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C717	1-126-960-11	ELECT	1μF 20% 50V
C652	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C718	1-126-935-11	ELECT	470μF 20% 16V
C653	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C771	1-126-965-11	ELECT	22μF 20% 50V
C654	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C772	1-126-965-11	ELECT	22μF 20% 50V
C655	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C773	1-126-960-11	ELECT	1μF 20% 50V
C656	1-126-964-11	ELECT	10μF 20% 50V	C774	1-126-960-11	ELECT	1μF 20% 50V
C657	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C775	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C658	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C1001	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C659	1-104-664-11	ELECT	47μF 20% 25V	C1002	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C660	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C1003	1-104-664-11	ELECT	47μF 20% 25V
C661	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C1005	1-104-664-11	ELECT	47μF 20% 25V
C664	1-104-664-11	ELECT	47μF 20% 25V	C1006	1-163-038-91	CERAMIC CHIP	0.1μF 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C1007	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1326	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1012	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C1327	1-126-963-11	ELECT	4.7μF	20%	50V
C1013	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1328	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1014	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C1329	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1015	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C1330	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1016	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1331	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1017	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1332	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1020	1-164-346-11	CERAMIC CHIP	1μF	16V	C1334	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1022	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1335	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C1023	1-126-935-11	ELECT	470μF	20%	6.3V	C1336	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1025	1-126-965-11	ELECT	22μF	20%	50V	C1337	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1026	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	C1338	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1027	1-110-501-11	CERAMIC CHIP	0.33μF	10%	16V	C1339	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1029	1-164-346-11	CERAMIC CHIP	1μF	16V	C1340	1-126-960-11	ELECT	1μF	20%	50V	
C1030	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C1341	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1031	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1342	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C1032	1-104-664-11	ELECT	47μF	20%	25V	C1343	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1033	1-126-964-11	ELECT	10μF	20%	50V	C1344	1-104-664-11	ELECT	47μF	20%	25V
C1034	1-164-346-11	CERAMIC CHIP	1μF	16V	C1345	1-104-664-11	ELECT	47μF	20%	25V	
C1035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V	C1346	1-104-664-11	ELECT	47μF	20%	25V
C1036	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C1347	1-104-664-11	ELECT	47μF	20%	25V
C1037	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1348	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1038	1-104-664-11	ELECT	47μF	20%	25V	C1349	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1039	1-164-346-11	CERAMIC CHIP	1μF	16V	C1351	1-126-934-11	ELECT	220μF	20%	16V	
C1040	1-163-237-11	CERAMIC CHIP	27PF	5%	50V	C1352	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1041	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	C1353	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1042	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	C1354	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1043	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C1355	1-104-664-11	ELECT	47μF	20%	25V
C1044	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C1357	1-126-934-11	ELECT	220μF	20%	16V
C1045	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1358	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1046	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1359	1-104-664-11	ELECT	47μF	20%	25V	
C1048	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1363	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1049	1-104-664-11	ELECT	47μF	20%	25V	C1364	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1050	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1365	1-104-664-11	ELECT	47μF	20%	25V	
C1051	1-104-664-11	ELECT	47μF	20%	25V	C1366	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1052	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C1370	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1301	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1376	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1302	1-104-664-11	ELECT	47μF	20%	25V	C1380	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1303	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1381	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
C1304	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1382	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1305	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1383	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1306	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1384	1-164-505-11	CERAMIC CHIP	2.2μF	16V		
C1307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1385	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C1309	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C1386	1-165-319-11	CERAMIC CHIP	0.1μF	50V	
C1310	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C1388	1-163-038-91	CERAMIC CHIP	0.1μF	25V	
C1311	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C1389	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1312	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C1392	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1313	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1394	1-163-038-91	CERAMIC CHIP	0.1μF	25V		
C1314	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1398	1-126-964-11	ELECT	10μF	20%	50V	
C1315	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	C1399	1-109-982-11	CERAMIC CHIP	1μF	10%	10V
C1316	1-104-664-11	ELECT	47μF	20%	25V	C1400	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C1318	1-104-664-11	ELECT	47μF	20%	25V	C1401	1-126-963-11	ELECT	4.7μF	20%	50V
C1319	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1403	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1321	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1405	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1323	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C1406	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1325	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1407	1-104-664-11	ELECT	47μF	20%	25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C1408	1-104-664-11	ELECT	47μF 20%	25V	C1472	1-104-664-11	ELECT 47μF 20%	25V
C1409	1-163-249-11	CERAMIC CHIP	82PF 5%	50V	C1475	1-163-231-11	CERAMIC CHIP 15PF 5%	50V
C1410	1-163-133-00	CERAMIC CHIP	470PF 5%	50V	C1477	1-104-664-11	ELECT 47μF 20%	25V
C1411	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1478	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1413	1-126-960-11	ELECT	1μF 20%	50V	C1479	1-163-231-11	CERAMIC CHIP 15PF 5%	50V
C1414	1-107-823-11	CERAMIC CHIP	0.47μF 10%	16V	C1480	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1415	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1481	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1417	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1482	1-104-664-11	ELECT 47μF 20%	25V
C1418	1-104-664-11	ELECT	47μF 20%	25V	C1483	1-104-664-11	ELECT 47μF 20%	25V
C1419	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1484	1-126-934-11	ELECT 220μF 20%	16V
C1422	1-163-231-11	CERAMIC CHIP	15PF 5%	50V	C1485	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1423	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1486	1-104-664-11	ELECT 47μF 20%	25V
C1424	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1487	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1425	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1488	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1426	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1489	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1427	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1490	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1428	1-126-934-11	ELECT	220μF 20%	16V	C1491	1-126-960-11	ELECT 1μF 20%	50V
C1429	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1492	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1430	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1493	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1431	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1494	1-126-961-11	ELECT 2.2μF 20%	50V
C1432	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1495	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1433	1-115-339-11	CERAMIC CHIP	0.1μF 10%	50V	C1496	1-163-021-91	CERAMIC CHIP 0.01μF 10%	50V
C1434	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1497	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C1435	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1498	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C1436	1-163-231-11	CERAMIC CHIP	15PF 5%	50V	C1601	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1437	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1602	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1438	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1603	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1439	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1604	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1442	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1605	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1444	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1606	1-165-319-11	CERAMIC CHIP 0.1μF	50V
C1445	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1608	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1446	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1609	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1447	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1610	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1448	1-165-319-11	CERAMIC CHIP	0.1μF	50V	C1611	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1449	1-126-964-11	ELECT	10μF 20%	50V	C1612	1-163-016-00	CERAMIC CHIP 0.0039μF 10%	50V
C1450	1-163-227-11	CERAMIC CHIP	10PF 0.5PF	50V	C1613	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1451	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1614	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1452	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1615	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1453	1-164-505-11	CERAMIC CHIP	2.2μF	16V	C1617	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1454	1-126-935-11	ELECT	470μF 20%	6.3V	C1619	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1455	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1621	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1456	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1623	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1457	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1624	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1458	1-164-505-11	CERAMIC CHIP	2.2μF	16V	C1626	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1460	1-163-038-91	CERAMIC CHIP	0.1μF	25V	C1628	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1461	1-164-505-11	CERAMIC CHIP	2.2μF	16V	C1629	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1462	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1631	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C1463	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1633	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1464	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V	C1634	1-107-823-11	CERAMIC CHIP 0.47μF 10%	16V
C1465	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V				
C1466	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V			<FILTER BLOCK>	
C1467	1-164-004-11	CERAMIC CHIP	0.1μF 10%	25V				
C1468	1-163-038-91	CERAMIC CHIP	0.1μF	25V	CM501	1-467-554-21	FILTER BLOCK, COMB	
C1469	1-163-121-00	CERAMIC CHIP	150PF 5%	50V				
C1470	1-104-664-11	ELECT	47μF 20%	25V			<CONNECTOR>	
C1471	1-104-664-11	ELECT	47μF 20%	25V	CN501	* 1-564-506-11	PLUG, CONNECTOR 3P	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN502	* 1-564-506-11	PLUG, CONNECTOR 3P		D532	8-719-977-28	DIODE DTZ10B	
CN503	* 1-564-511-11	PLUG, CONNECTOR 8P		D533	8-719-977-28	DIODE DTZ10B	
CN504	* 1-564-512-11	PLUG, CONNECTOR 9P		D534	8-719-977-28	DIODE DTZ10B	
CN505	* 1-564-510-11	PLUG, CONNECTOR 7P		D536	8-719-404-49	DIODE MA111	
				D537	8-719-977-28	DIODE DTZ10B	
CN506	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P					
CN507	1-695-915-11	TAB (CONTACT)		D538	8-719-977-28	DIODE DTZ10B	
CN508	* 1-564-507-11	PLUG, CONNECTOR 4P		D539	8-719-977-28	DIODE DTZ10B	
CN509	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D540	8-719-977-28	DIODE DTZ10B	
CN510	* 1-564-510-11	PLUG, CONNECTOR 7P		D541	8-719-977-28	DIODE DTZ10B	
				D542	8-719-977-28	DIODE DTZ10B	
CN511	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P					
CN512	1-564-513-11	PLUG, CONNECTOR 10P		D543	8-719-977-28	DIODE DTZ10B	
CN513	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D544	8-719-977-28	DIODE DTZ10B	
CN514	* 1-564-509-11	PLUG, CONNECTOR 6P		D545	8-719-977-28	DIODE DTZ10B	
CN515	* 1-564-514-11	PLUG, CONNECTOR 11P		D547	8-719-977-28	DIODE DTZ10B	
				D550	8-719-977-28	DIODE DTZ10B	
CN516	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P					
CN517	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D551	8-719-977-28	DIODE DTZ10B	
CN518	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D552	8-719-977-28	DIODE DTZ10B	
CN519	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		D553	8-719-977-28	DIODE DTZ10B	
CN521	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P		D555	8-719-977-28	DIODE DTZ10B	
				D556	8-719-977-28	DIODE DTZ10B	
CN522	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P					
CN523	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D557	8-719-977-28	DIODE DTZ10B	
CN524	* 1-564-509-11	PLUG, CONNECTOR 6P		D558	8-719-977-81	DIODE DTZ33B	
CN525	* 1-564-511-11	PLUG, CONNECTOR 8P		D559	8-719-977-28	DIODE DTZ10B	
CN526	* 1-564-510-11	PLUG, CONNECTOR 7P		D560	8-719-977-28	DIODE DTZ10B	
				D1001	8-719-404-49	DIODE MA111	
		<DIODE>					
D501	8-719-404-49	DIODE MA111		D1002	8-719-404-49	DIODE MA111	
D502	8-719-158-15	DIODE RD5.6SB		D1005	8-719-404-49	DIODE MA111	
D503	8-719-404-49	DIODE MA111		D1006	8-719-404-49	DIODE MA111	
D504	8-719-404-49	DIODE MA111		D1007	8-719-404-49	DIODE MA111	
D505	8-719-404-49	DIODE MA111		D1008	8-719-404-49	DIODE MA111	
D506	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1009	8-719-404-49	DIODE MA111	
D507	8-719-404-49	DIODE MA111		D1601	8-719-976-99	DIODE DTZ5.1B	
D508	8-719-404-49	DIODE MA111		D1602	8-719-976-99	DIODE DTZ5.1B	
D509	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1603	8-719-976-99	DIODE DTZ5.1B	
D510	8-719-056-84	DIODE UDZ-TE-17-7.5B		D1604	8-719-976-99	DIODE DTZ5.1B	
D511	8-719-404-49	DIODE MA111		D1605	8-719-976-99	DIODE DTZ5.1B	
D512	8-719-404-49	DIODE MA111		D1614	8-719-976-99	DIODE DTZ5.1B	
D513	8-719-404-49	DIODE MA111		D1615	8-719-976-99	DIODE DTZ5.1B	
D514	8-719-404-49	DIODE MA111		D1616	8-719-976-99	DIODE DTZ5.1B	
D515	8-719-158-15	DIODE RD5.6SB		D1618	8-719-404-49	DIODE MA111	
D516	8-719-158-15	DIODE RD5.6SB		D1620	8-719-404-49	DIODE MA111	
D517	8-719-158-15	DIODE RD5.6SB		D1623	8-719-404-49	DIODE MA111	
D518	8-719-977-28	DIODE DTZ10B		D1625	8-719-404-49	DIODE MA111	
D519	8-719-977-28	DIODE DTZ10B		D1626	8-719-404-49	DIODE MA111	
D520	8-719-977-28	DIODE DTZ10B		D1628	8-719-404-49	DIODE MA111	
D521	8-719-404-49	DIODE MA111		D1630	8-719-404-49	DIODE MA111	
D523	8-719-404-49	DIODE MA111		D1632	8-719-404-49	DIODE MA111	
D524	8-719-977-28	DIODE DTZ10B					
D525	8-719-977-28	DIODE DTZ10B				<FILTER>	
D526	8-719-977-28	DIODE DTZ10B					
D527	8-719-977-28	DIODE DTZ10B		FL1301	1-239-847-11	FILTER, LOW PASS	
D528	8-719-977-28	DIODE DTZ10B		FL1302	1-239-847-11	FILTER, LOW PASS	
D529	8-719-977-28	DIODE DTZ10B		FL1303	1-239-847-11	FILTER, LOW PASS	
D530	8-719-977-28	DIODE DTZ10B		FL1304	1-239-847-11	FILTER, LOW PASS	
D531	8-719-977-28	DIODE DTZ10B					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>		L510	1-414-856-11	INDUCTOR 10μH	
IC501	8-759-231-58	IC TA7812S		L511	1-414-856-11	INDUCTOR 10μH	
IC503	8-759-450-47	IC BA05T		L512	1-414-856-11	INDUCTOR 10μH	
IC504	8-759-513-71	IC PQ05RF21		L513	1-414-234-11	INDUCTOR CHIP 0μH	
IC505	8-759-198-03	IC PQ09RF21		L514	1-414-856-11	INDUCTOR 10μH	
IC506	8-759-520-49	IC PQ30RV21		L515	1-414-856-11	INDUCTOR 10μH	
IC507	8-759-083-85	IC LA7856A		L517	1-414-234-11	INDUCTOR CHIP 0μH	
IC508	8-759-367-69	IC MC74HC74AFEL		L518	1-414-234-11	INDUCTOR CHIP 0μH	
IC509	8-759-011-64	IC MC74HC4052F		L519	1-414-234-11	INDUCTOR CHIP 0μH	
IC510	8-759-988-13	IC LM393PS		L520	1-414-234-11	INDUCTOR CHIP 0μH	
IC511	8-752-086-33	IC CXA2101AQ-TL		L523	1-414-856-11	INDUCTOR 10μH	
IC512	8-752-379-93	IC CXD2018AQ-T6		L1001	1-414-234-11	INDUCTOR CHIP 0μH	
IC514	8-759-998-98	IC LM358D		L1002	1-414-234-11	INDUCTOR CHIP 0μH	
IC515	8-752-066-69	IC CXA1845Q		L1004	1-414-754-11	INDUCTOR 10μH	
IC516	8-759-242-76	IC TC7W08F		L1005	1-414-754-11	INDUCTOR 10μH	
IC517	8-759-239-34	IC TC74HC4538AF		L1006	1-414-754-11	INDUCTOR 10μH	
IC1001	8-759-544-58	IC LH5317XX		L1008	1-414-754-11	INDUCTOR 10μH	
IC1002	8-759-927-72	IC TL1591CP		L1009	1-414-234-11	INDUCTOR CHIP 0μH	
IC1003	8-759-925-75	IC SN74HC05ANS		L1301	1-414-234-11	INDUCTOR CHIP 0μH	
IC1004	8-759-544-57	IC MB90091A-146		L1302	1-414-234-11	INDUCTOR CHIP 0μH	
IC1005	8-759-352-91	IC PST9143NL		L1303	1-414-234-11	INDUCTOR CHIP 0μH	
IC1007	8-759-527-76	IC M24C08-MN6T		L1304	1-414-234-11	INDUCTOR CHIP 0μH	
IC1008	8-752-900-81	IC CXP85848A-016Q-TL		L1305	1-414-234-11	INDUCTOR CHIP 0μH	
IC1009	8-752-899-97	IC CXP85340A-256Q-TL		L1306	1-414-234-11	INDUCTOR CHIP 0μH	
IC1010	8-759-352-91	IC PST9143NL		L1307	1-414-234-11	INDUCTOR CHIP 0μH	
IC1301	8-752-086-80	IC CXA2019AQ-T4		L1308	1-414-234-11	INDUCTOR CHIP 0μH	
IC1302	8-752-082-49	IC CXA2119M		L1309	1-412-006-31	INDUCTOR CHIP 10μH	
IC1304	8-759-473-05	IC UPD424210LE-60-E2		L1310	1-414-234-11	INDUCTOR CHIP 0μH	
IC1305	8-752-086-80	IC CXA2019AQ-T4		L1311	1-414-234-11	INDUCTOR CHIP 0μH	
IC1306	8-759-536-12	IC UPD64081BGF-3BA		L1313	1-412-006-31	INDUCTOR CHIP 10μH	
IC1307	8-752-082-49	IC CXA2119M		L1314	1-414-234-11	INDUCTOR CHIP 0μH	
IC1309	8-759-161-24	IC UPC659AGS-E2		L1315	1-414-234-11	INDUCTOR CHIP 0μH	
IC1601	8-759-394-80	IC NJM2058M-TE2		L1316	1-412-006-31	INDUCTOR CHIP 10μH	
IC1603	8-759-009-07	IC MC14053BF		L1317	1-412-006-31	INDUCTOR CHIP 10μH	
IC1604	8-759-394-80	IC NJM2058M-TE2		L1319	1-412-006-31	INDUCTOR CHIP 10μH	
IC1605	8-759-394-80	IC NJM2058M-TE2		L1320	1-412-006-31	INDUCTOR CHIP 10μH	
IC1606	8-759-394-80	IC NJM2058M-TE2		L1322	1-414-234-11	INDUCTOR CHIP 0μH	
		<JACK>		L1323	1-414-234-11	INDUCTOR CHIP 0μH	
J502	1-774-749-11	JACK BLOCK, PIN		L1324	1-414-234-11	INDUCTOR CHIP 0μH	
J505	1-774-751-11	TERMINAL BLOCK, S		L1325	1-412-006-31	INDUCTOR CHIP 10μH	
J506	1-774-751-11	TERMINAL BLOCK, S		L1326	1-414-234-11	INDUCTOR CHIP 0μH	
J507	1-774-751-11	TERMINAL BLOCK, S		L1328	1-412-006-31	INDUCTOR CHIP 10μH	
J508	1-774-751-11	TERMINAL BLOCK, S		L1329	1-412-006-31	INDUCTOR CHIP 10μH	
		<COIL>		L1330	1-412-006-31	INDUCTOR CHIP 10μH	
L501	1-414-856-11	INDUCTOR 10μH		L1401	1-414-234-11	INDUCTOR CHIP 0μH	
L502	1-414-856-11	INDUCTOR 10μH		L1402	1-414-234-11	INDUCTOR CHIP 0μH	
L503	1-414-856-11	INDUCTOR 10μH		L1403	1-414-234-11	INDUCTOR CHIP 0μH	
L504	1-414-856-11	INDUCTOR 10μH		L1404	1-414-234-11	INDUCTOR CHIP 0μH	
L505	1-414-856-11	INDUCTOR 10μH		L1405	1-414-234-11	INDUCTOR CHIP 0μH	
L506	1-414-856-11	INDUCTOR 10μH		L1406	1-414-234-11	INDUCTOR CHIP 0μH	
L507	1-414-856-11	INDUCTOR 10μH		L1407	1-414-234-11	INDUCTOR CHIP 0μH	
L508	1-414-856-11	INDUCTOR 10μH		L1408	1-414-234-11	INDUCTOR CHIP 0μH	
L509	1-414-856-11	INDUCTOR 10μH		L1409	1-414-234-11	INDUCTOR CHIP 0μH	
				L1410	1-414-234-11	INDUCTOR CHIP 0μH	
				L1411	1-414-234-11	INDUCTOR CHIP 0μH	
				L1412	1-414-234-11	INDUCTOR CHIP 0μH	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>					
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		Q1006	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q502	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1008	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q503	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q504	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q505	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q506	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1015	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		Q1018	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q508	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1020	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q509	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1022	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q510	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1301	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q511	8-729-216-22	TRANSISTOR 2SA1162-G		Q1302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	8-729-216-22	TRANSISTOR 2SA1162-G		Q1303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q513	8-729-216-22	TRANSISTOR 2SA1162-G		Q1304	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q514	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q515	8-729-216-22	TRANSISTOR 2SA1162-G		Q1306	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q516	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1307	8-729-216-22	TRANSISTOR 2SA1162-G	
Q517	8-729-216-22	TRANSISTOR 2SA1162-G		Q1308	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G		Q1309	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q519	8-729-216-22	TRANSISTOR 2SA1162-G		Q1310	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q520	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1311	8-729-216-22	TRANSISTOR 2SA1162-G	
Q521	8-729-216-22	TRANSISTOR 2SA1162-G		Q1312	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q522	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q1313	8-729-216-22	TRANSISTOR 2SA1162-G	
Q523	8-729-216-22	TRANSISTOR 2SA1162-G		Q1314	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q524	8-729-122-63	TRANSISTOR 2SA1226-E4		Q1315	8-729-216-22	TRANSISTOR 2SA1162-G	
Q525	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1316	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q526	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1317	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q527	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1318	8-729-216-22	TRANSISTOR 2SA1162-G	
Q528	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1319	8-729-216-22	TRANSISTOR 2SA1162-G	
Q530	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1320	8-729-216-22	TRANSISTOR 2SA1162-G	
Q531	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1321	8-729-216-22	TRANSISTOR 2SA1162-G	
Q532	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q533	8-729-216-22	TRANSISTOR 2SA1162-G		Q1323	8-729-216-22	TRANSISTOR 2SA1162-G	
Q535	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1324	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q536	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1325	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q537	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1326	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q538	8-729-216-22	TRANSISTOR 2SA1162-G		Q1327	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q539	8-729-216-22	TRANSISTOR 2SA1162-G		Q1328	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q540	8-729-216-22	TRANSISTOR 2SA1162-G		Q1329	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q541	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q1330	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q542	8-729-216-22	TRANSISTOR 2SA1162-G		Q1331	8-729-216-22	TRANSISTOR 2SA1162-G	
Q543	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1332	8-729-216-22	TRANSISTOR 2SA1162-G	
Q544	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1333	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q545	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q1334	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q546	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1335	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G		Q1336	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q548	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1337	8-729-216-22	TRANSISTOR 2SA1162-G	
Q560	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1338	8-729-216-22	TRANSISTOR 2SA1162-G	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1339	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1340	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-216-22	TRANSISTOR 2SA1162-G		Q1341	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q564	8-729-216-22	TRANSISTOR 2SA1162-G		Q1342	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1001	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1343	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1002	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1344	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1003	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1345	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1004	8-729-422-27	TRANSISTOR 2SD601A-Q		Q1346	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q1347	8-729-216-22	TRANSISTOR 2SA1162-G	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1348	8-729-422-27	TRANSISTOR 2SD601A-Q		R522	1-216-045-00	RES,CHIP	680 5% 1/10W
Q1349	8-729-216-22	TRANSISTOR 2SA1162-G		R523	1-216-031-00	RES,CHIP	180 5% 1/10W
Q1350	8-729-422-27	TRANSISTOR 2SD601A-Q		R524	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q1352	8-729-422-27	TRANSISTOR 2SD601A-Q		R525	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
Q1353	8-729-422-27	TRANSISTOR 2SD601A-Q		R526	1-216-031-00	RES,CHIP	180 5% 1/10W
Q1354	8-729-216-22	TRANSISTOR 2SA1162-G		R527	1-216-085-00	RES,CHIP	33K 5% 1/10W
Q1355	8-729-422-27	TRANSISTOR 2SD601A-Q		R528	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
Q1356	8-729-422-27	TRANSISTOR 2SD601A-Q		R529	1-216-105-91	RES,CHIP	220K 5% 1/10W
Q1357	8-729-422-27	TRANSISTOR 2SD601A-Q		R530	1-208-780-11	RES,CHIP	820 0.50% 1/10W
Q1358	8-729-216-22	TRANSISTOR 2SA1162-G		R531	1-208-774-11	RES,CHIP	470 0.50% 1/10W
Q1359	1-801-806-11	TRANSISTOR DTC144EKA-T146		R532	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q1366	8-729-422-27	TRANSISTOR 2SD601A-Q		R533	1-216-368-11	METAL OXIDE	0.82 5% 2W
Q1367	8-729-216-22	TRANSISTOR 2SA1162-G		R534	1-208-810-11	RES,CHIP	15K 0.50% 1/10W
Q1601	1-801-806-11	TRANSISTOR DTC144EKA-T146		R535	1-216-373-11	METAL OXIDE	2.2 5% 2W
Q1602	1-801-806-11	TRANSISTOR DTC144EKA-T146		R536	1-208-782-11	RES,CHIP	1K 0.50% 1/10W
Q1603	1-801-806-11	TRANSISTOR DTC144EKA-T146		R537	1-208-818-11	RES,CHIP	33K 0.50% 1/10W
Q1604	1-801-806-11	TRANSISTOR DTC144EKA-T146		R538	1-216-083-00	RES,CHIP	27K 5% 1/10W
Q1605	1-801-806-11	TRANSISTOR DTC144EKA-T146		R539	1-216-689-11	RES,CHIP	39K 5% 1/10W
Q1606	1-801-806-11	TRANSISTOR DTC144EKA-T146		R540	1-208-808-11	RES,CHIP	12K 0.50% 1/10W
Q1607	1-801-806-11	TRANSISTOR DTC144EKA-T146		R541	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
Q1608	1-801-806-11	TRANSISTOR DTC144EKA-T146		R542	1-216-043-91	RES,CHIP	560 5% 1/10W
Q1609	8-729-044-82	TRANSISTOR 2SK306400LS0		R543	1-208-776-11	RES,CHIP	560 0.50% 1/10W
Q1610	8-729-044-82	TRANSISTOR 2SK306400LS0		R544	1-216-045-00	RES,CHIP	680 5% 1/10W
Q1611	8-729-044-82	TRANSISTOR 2SK306400LS0		R545	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
Q1612	8-729-044-82	TRANSISTOR 2SK306400LS0		R546	1-208-830-11	RES,CHIP	100K 0.50% 1/10W
Q1613	8-729-044-82	TRANSISTOR 2SK306400LS0		R547	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1614	8-729-044-82	TRANSISTOR 2SK306400LS0		R548	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
Q1615	8-729-044-82	TRANSISTOR 2SK306400LS0		R549	1-208-782-11	RES,CHIP	1K 0.50% 1/10W
Q1616	8-729-044-82	TRANSISTOR 2SK306400LS0		R550	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
Q1617	8-729-422-27	TRANSISTOR 2SD601A-Q		R551	1-216-097-91	RES,CHIP	100K 5% 1/10W
		<RESISTOR>		R552	1-216-081-00	RES,CHIP	22K 5% 1/10W
R501	1-216-073-00	RES,CHIP	10K 5% 1/10W	R553	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R502	1-216-073-00	RES,CHIP	10K 5% 1/10W	R554	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R503	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R555	1-216-043-91	RES,CHIP	560 5% 1/10W
R504	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R556	1-216-121-91	RES,CHIP	1M 5% 1/10W
R505	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R557	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R506	1-216-025-91	RES,CHIP	100 5% 1/10W	R558	1-216-073-00	RES,CHIP	10K 5% 1/10W
R507	1-216-295-91	CONDUCTOR, CHIP	0	R559	1-216-073-00	RES,CHIP	10K 5% 1/10W
R508	1-249-393-11	CARBON	10 5% 1/4W	R560	1-208-778-11	RES,CHIP	680 0.50% 1/10W
R509	1-249-381-11	CARBON	1 5% 1/4W	R561	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R510	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R562	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R511	1-216-295-91	CONDUCTOR, CHIP	0	R563	1-216-049-91	RES,CHIP	1K 5% 1/10W
R512	1-216-295-91	CONDUCTOR, CHIP	0	R564	1-216-097-91	RES,CHIP	100K 5% 1/10W
R513	1-216-295-91	CONDUCTOR, CHIP	0	R565	1-216-097-91	RES,CHIP	100K 5% 1/10W
R514	1-216-031-00	RES,CHIP	180 5% 1/10W	R566	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R515	1-249-381-11	CARBON	1 5% 1/4W	R567	1-216-049-91	RES,CHIP	1K 5% 1/10W
R516	1-216-025-91	RES,CHIP	100 5% 1/10W	R569	1-216-073-00	RES,CHIP	10K 5% 1/10W
R517	1-216-101-00	RES,CHIP	150K 5% 1/10W	R570	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R518	1-216-295-91	CONDUCTOR, CHIP	0	R571	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R519	1-216-025-91	RES,CHIP	100 5% 1/10W	R572	1-216-097-91	RES,CHIP	100K 5% 1/10W
R520	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R573	1-216-049-91	RES,CHIP	1K 5% 1/10W
R521	1-216-049-91	RES,CHIP	1K 5% 1/10W	R574	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
				R575	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
				R576	1-216-073-00	RES,CHIP	10K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK		
R577	1-216-075-00	RES,CHIP	12K	5%	1/10W	R643	1-216-025-91	RES,CHIP	100 5%	1/10W	
R578	1-216-073-00	RES,CHIP	10K	5%	1/10W	R644	1-216-025-91	RES,CHIP	100 5%	1/10W	
R580	1-208-814-11	RES,CHIP	22K	0.50%	1/10W	R645	1-216-025-91	RES,CHIP	100 5%	1/10W	
R581	1-216-073-00	RES,CHIP	10K	5%	1/10W	R646	1-216-025-91	RES,CHIP	100 5%	1/10W	
R582	1-216-049-91	RES,CHIP	1K	5%	1/10W						
R583	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R648	1-216-017-91	RES,CHIP	47 5%	1/10W	
R584	1-216-097-91	RES,CHIP	100K	5%	1/10W	R651	1-216-073-00	RES,CHIP	10K 5%	1/10W	
R585	1-216-097-91	RES,CHIP	100K	5%	1/10W	R652	1-216-025-91	RES,CHIP	100 5%	1/10W	
R586	1-216-049-91	RES,CHIP	1K	5%	1/10W	R653	1-216-025-91	RES,CHIP	100 5%	1/10W	
R587	1-216-295-91	CONDUCTOR, CHIP		0		R654	1-216-025-91	RES,CHIP	100 5%	1/10W	
R588	1-216-017-91	RES,CHIP	47	5%	1/10W	R655	1-216-025-91	RES,CHIP	100 5%	1/10W	
R589	1-216-049-91	RES,CHIP	1K	5%	1/10W	R656	1-216-025-91	RES,CHIP	100 5%	1/10W	
R590	1-208-806-11	RES,CHIP	10K	0.50%	1/10W	R657	1-216-083-00	RES,CHIP	27K 5%	1/10W	
R591	1-208-806-11	RES,CHIP	10K	0.50%	1/10W	R658	1-216-689-11	RES,CHIP	39K 5%	1/10W	
R592	1-216-025-91	RES,CHIP	100	5%	1/10W	R659	1-216-025-91	RES,CHIP	100 5%	1/10W	
R593	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R660	1-216-025-91	RES,CHIP	100 5%	1/10W	
R594	1-216-121-91	RES,CHIP	1M	5%	1/10W	R661	1-216-061-00	RES,CHIP	3.3K 5%	1/10W	
R595	1-216-033-00	RES,CHIP	220	5%	1/10W	R662	1-216-025-91	RES,CHIP	100 5%	1/10W	
R596	1-216-049-91	RES,CHIP	1K	5%	1/10W	R663	1-216-025-91	RES,CHIP	100 5%	1/10W	
R597	1-216-025-91	RES,CHIP	100	5%	1/10W	R664	1-208-776-11	RES,CHIP	560 0.50%	1/10W	
R598	1-216-033-00	RES,CHIP	220	5%	1/10W	R666	1-216-049-91	RES,CHIP	1K 5%	1/10W	
R599	1-216-049-91	RES,CHIP	1K	5%	1/10W	R667	1-216-109-00	RES,CHIP	330K 5%	1/10W	
R601	1-216-081-00	RES,CHIP	22K	5%	1/10W	R668	1-216-025-91	RES,CHIP	100 5%	1/10W	
R602	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R669	1-208-814-11	RES,CHIP	22K 0.50%	1/10W	
R603	1-216-073-00	RES,CHIP	10K	5%	1/10W	R670	1-216-069-00	RES,CHIP	6.8K 5%	1/10W	
R604	1-216-073-00	RES,CHIP	10K	5%	1/10W	R672	1-216-049-91	RES,CHIP	1K 5%	1/10W	
R605	1-216-049-91	RES,CHIP	1K	5%	1/10W	R673	1-216-025-91	RES,CHIP	100 5%	1/10W	
R606	1-216-373-11	METAL OXIDE	2.2	5%	2W	R676	1-216-025-91	RES,CHIP	100 5%	1/10W	
R607	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R677	1-216-025-91	RES,CHIP	100 5%	1/10W	
R608	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R678	1-216-025-91	RES,CHIP	100 5%	1/10W	
R609	1-216-033-00	RES,CHIP	220	5%	1/10W	R679	1-216-065-91	RES,CHIP	4.7K 5%	1/10W	
R610	1-216-025-91	RES,CHIP	100	5%	1/10W	R680	1-216-025-91	RES,CHIP	100 5%	1/10W	
R612	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R682	1-208-778-11	RES,CHIP	680 0.50%	1/10W	
R613	1-216-073-00	RES,CHIP	10K	5%	1/10W	R685	1-216-025-91	RES,CHIP	100 5%	1/10W	
R614	1-216-073-00	RES,CHIP	10K	5%	1/10W	R688	1-216-057-00	RES,CHIP	2.2K 5%	1/10W	
R615	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R689	1-216-025-91	RES,CHIP	100 5%	1/10W	
R616	1-216-295-91	CONDUCTOR, CHIP		0		R690	1-216-025-91	RES,CHIP	100 5%	1/10W	
R617	1-216-017-91	RES,CHIP	47	5%	1/10W	R692	1-208-808-11	RES,CHIP	12K 0.50%	1/10W	
R618	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R693	1-216-025-91	RES,CHIP	100 5%	1/10W	
R619	1-216-033-00	RES,CHIP	220	5%	1/10W	R694	1-216-051-00	RES,CHIP	1.2K 5%	1/10W	
R620	1-216-049-91	RES,CHIP	1K	5%	1/10W	R695	1-216-025-91	RES,CHIP	100 5%	1/10W	
R621	1-216-025-91	RES,CHIP	100	5%	1/10W	R696	1-208-822-11	RES,CHIP	47K 0.50%	1/10W	
R623	1-216-025-91	RES,CHIP	100	5%	1/10W	R697	1-216-025-91	RES,CHIP	100 5%	1/10W	
R624	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R699	1-208-798-11	RES,CHIP	4.7K 0.50%	1/10W	
R625	1-216-025-91	RES,CHIP	100	5%	1/10W	R700	1-216-043-91	RES,CHIP	560 5%	1/10W	
R626	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R701	1-208-755-11	RES,CHIP	75 0.50%	1/10W	
R631	1-216-025-91	RES,CHIP	100	5%	1/10W	R703	1-216-295-91	CONDUCTOR, CHIP		0	
R632	1-216-025-91	RES,CHIP	100	5%	1/10W	R705	1-216-025-91	RES,CHIP	100 5%	1/10W	
R634	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R707	1-208-814-11	RES,CHIP	22K 0.50%	1/10W	
R635	1-216-295-91	CONDUCTOR, CHIP		0		R708	1-216-025-91	RES,CHIP	100 5%	1/10W	
R636	1-216-133-00	RES,CHIP	3.3M	5%	1/10W	R709	1-216-091-00	RES,CHIP	56K 5%	1/10W	
R637	1-216-025-91	RES,CHIP	100	5%	1/10W	R710	1-216-025-91	RES,CHIP	100 5%	1/10W	
R638	1-216-025-91	RES,CHIP	100	5%	1/10W	R712	1-216-025-91	RES,CHIP	100 5%	1/10W	
R639	1-216-025-91	RES,CHIP	100	5%	1/10W	R713	1-216-025-91	RES,CHIP	100 5%	1/10W	
R640	1-216-025-91	RES,CHIP	100	5%	1/10W	R716	1-216-025-91	RES,CHIP	100 5%	1/10W	
R642	1-216-025-91	RES,CHIP	100	5%	1/10W	R717	1-216-051-00	RES,CHIP	1.2K 5%	1/10W	
						R720	1-216-057-00	RES,CHIP	2.2K 5%	1/10W	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R721	1-216-025-91	RES,CHIP	100 5% 1/10W	R816	1-216-295-91	CONDUCTOR, CHIP	0
R722	1-216-025-91	RES,CHIP	100 5% 1/10W	R817	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R726	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R818	1-216-049-91	RES,CHIP	1K 5% 1/10W
R727	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R819	1-216-025-91	RES,CHIP	100 5% 1/10W
R729	1-216-295-91	CONDUCTOR, CHIP	0	R820	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R734	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R821	1-216-025-91	RES,CHIP	100 5% 1/10W
R735	1-216-025-91	RES,CHIP	100 5% 1/10W	R822	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R736	1-216-025-91	RES,CHIP	100 5% 1/10W	R823	1-216-025-91	RES,CHIP	100 5% 1/10W
R739	1-216-073-00	RES,CHIP	10K 5% 1/10W	R824	1-216-025-91	RES,CHIP	100 5% 1/10W
R740	1-216-017-91	RES,CHIP	47 5% 1/10W	R825	1-216-025-91	RES,CHIP	100 5% 1/10W
R741	1-216-093-00	RES,CHIP	68K 5% 1/10W	R826	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R743	1-216-025-91	RES,CHIP	100 5% 1/10W	R827	1-216-025-91	RES,CHIP	100 5% 1/10W
R744	1-216-025-91	RES,CHIP	100 5% 1/10W	R828	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R745	1-216-025-91	RES,CHIP	100 5% 1/10W	R829	1-216-025-91	RES,CHIP	100 5% 1/10W
R746	1-216-025-91	RES,CHIP	100 5% 1/10W	R830	1-216-025-91	RES,CHIP	100 5% 1/10W
R747	1-216-085-00	RES,CHIP	33K 5% 1/10W	R831	1-216-025-91	RES,CHIP	100 5% 1/10W
R748	1-216-025-91	RES,CHIP	100 5% 1/10W	R832	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R749	1-216-025-91	RES,CHIP	100 5% 1/10W	R833	1-216-025-91	RES,CHIP	100 5% 1/10W
R751	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R834	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R753	1-216-025-91	RES,CHIP	100 5% 1/10W	R835	1-216-025-91	RES,CHIP	100 5% 1/10W
R754	1-216-025-91	RES,CHIP	100 5% 1/10W	R836	1-216-025-91	RES,CHIP	100 5% 1/10W
R755	1-216-295-91	CONDUCTOR, CHIP	0	R837	1-216-025-91	RES,CHIP	100 5% 1/10W
R756	1-216-045-00	RES,CHIP	680 5% 1/10W	R840	1-216-081-00	RES,CHIP	22K 5% 1/10W
R757	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R841	1-216-081-00	RES,CHIP	22K 5% 1/10W
R759	1-216-295-91	CONDUCTOR, CHIP	0	R843	1-216-081-00	RES,CHIP	22K 5% 1/10W
R760	1-216-295-91	CONDUCTOR, CHIP	0	R852	1-216-113-00	RES,CHIP	470K 5% 1/10W
R763	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R853	1-216-041-00	RES,CHIP	470 5% 1/10W
R765	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R854	1-216-041-00	RES,CHIP	470 5% 1/10W
R766	1-216-019-00	RES,CHIP	56 5% 1/10W	R855	1-216-113-00	RES,CHIP	470K 5% 1/10W
R768	1-216-081-00	RES,CHIP	22K 5% 1/10W	R856	1-216-049-91	RES,CHIP	1K 5% 1/10W
R772	1-216-025-91	RES,CHIP	100 5% 1/10W	R857	1-216-089-91	RES,CHIP	47K 5% 1/10W
R773	1-216-025-91	RES,CHIP	100 5% 1/10W	R858	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R774	1-216-025-91	RES,CHIP	100 5% 1/10W	R859	1-216-033-00	RES,CHIP	220 5% 1/10W
R777	1-216-025-91	RES,CHIP	100 5% 1/10W	R860	1-216-033-00	RES,CHIP	220 5% 1/10W
R779	1-216-085-00	RES,CHIP	33K 5% 1/10W	R861	1-216-033-00	RES,CHIP	220 5% 1/10W
R780	1-216-025-91	RES,CHIP	100 5% 1/10W	R862	1-216-049-91	RES,CHIP	1K 5% 1/10W
R783	1-216-025-91	RES,CHIP	100 5% 1/10W	R864	1-216-049-91	RES,CHIP	1K 5% 1/10W
R784	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R865	1-216-049-91	RES,CHIP	1K 5% 1/10W
R787	1-216-025-91	RES,CHIP	100 5% 1/10W	R866	1-216-049-91	RES,CHIP	1K 5% 1/10W
R788	1-216-073-00	RES,CHIP	10K 5% 1/10W	R867	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R789	1-216-073-00	RES,CHIP	10K 5% 1/10W	R868	1-216-033-00	RES,CHIP	220 5% 1/10W
R790	1-216-025-91	RES,CHIP	100 5% 1/10W	R869	1-216-033-00	RES,CHIP	220 5% 1/10W
R791	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R870	1-216-113-00	RES,CHIP	470K 5% 1/10W
R794	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R871	1-216-113-00	RES,CHIP	470K 5% 1/10W
R795	1-216-025-91	RES,CHIP	100 5% 1/10W	R872	1-216-113-00	RES,CHIP	470K 5% 1/10W
R799	1-216-025-91	RES,CHIP	100 5% 1/10W	R873	1-216-113-00	RES,CHIP	470K 5% 1/10W
R800	1-216-025-91	RES,CHIP	100 5% 1/10W	R875	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R801	1-216-081-00	RES,CHIP	22K 5% 1/10W	R876	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R804	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R877	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R805	1-216-025-91	RES,CHIP	100 5% 1/10W	R878	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R808	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R879	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R809	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R880	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R812	1-216-025-91	RES,CHIP	100 5% 1/10W	R881	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R813	1-216-025-91	RES,CHIP	100 5% 1/10W	R882	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R814	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R883	1-208-755-11	RES,CHIP	75 0.50% 1/10W
R815	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R884	1-208-755-11	RES,CHIP	75 0.50% 1/10W
				R885	1-208-755-11	RES,CHIP	75 0.50% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R886	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1033	1-216-025-91	RES,CHIP	100 5% 1/10W
R887	1-216-033-00	RES,CHIP	220 5% 1/10W	R1034	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R891	1-208-755-11	RES,CHIP	75 0.50% 1/10W	R1035	1-216-025-91	RES,CHIP	100 5% 1/10W
R892	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1036	1-216-009-00	RES,CHIP	22 5% 1/10W
R893	1-208-755-11	RES,CHIP	75 0.50% 1/10W	R1037	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R894	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1038	1-216-025-91	RES,CHIP	100 5% 1/10W
R895	1-208-755-11	RES,CHIP	75 0.50% 1/10W	R1039	1-216-025-91	RES,CHIP	100 5% 1/10W
R896	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1040	1-216-025-91	RES,CHIP	100 5% 1/10W
R897	1-208-755-11	RES,CHIP	75 0.50% 1/10W	R1041	1-216-295-91	CONDUCTOR, CHIP	0
R898	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1043	1-216-025-91	RES,CHIP	100 5% 1/10W
R899	1-216-033-00	RES,CHIP	220 5% 1/10W	R1044	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R901	1-216-033-00	RES,CHIP	220 5% 1/10W	R1045	1-216-033-00	RES,CHIP	220 5% 1/10W
R903	1-216-009-00	RES,CHIP	22 5% 1/10W	R1046	1-216-073-00	RES,CHIP	10K 5% 1/10W
R904	1-216-009-00	RES,CHIP	22 5% 1/10W	R1049	1-216-089-91	RES,CHIP	47K 5% 1/10W
R905	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1050	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R906	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1051	1-216-049-91	RES,CHIP	1K 5% 1/10W
R907	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1062	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R908	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1063	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R909	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1064	1-216-089-91	RES,CHIP	47K 5% 1/10W
R910	1-216-041-00	RES,CHIP	470 5% 1/10W	R1065	1-216-049-91	RES,CHIP	1K 5% 1/10W
R911	1-216-025-91	RES,CHIP	100 5% 1/10W	R1066	1-216-049-91	RES,CHIP	1K 5% 1/10W
R912	1-216-025-91	RES,CHIP	100 5% 1/10W	R1067	1-216-049-91	RES,CHIP	1K 5% 1/10W
R913	1-216-025-91	RES,CHIP	100 5% 1/10W	R1071	1-216-073-00	RES,CHIP	10K 5% 1/10W
R914	1-216-025-91	RES,CHIP	100 5% 1/10W	R1073	1-216-033-00	RES,CHIP	220 5% 1/10W
R1001	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1074	1-216-033-00	RES,CHIP	220 5% 1/10W
R1002	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1075	1-216-033-00	RES,CHIP	220 5% 1/10W
R1003	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1076	1-216-033-00	RES,CHIP	220 5% 1/10W
R1004	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1077	1-216-033-00	RES,CHIP	220 5% 1/10W
R1005	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1078	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1006	1-216-033-00	RES,CHIP	220 5% 1/10W	R1079	1-216-033-00	RES,CHIP	220 5% 1/10W
R1007	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W	R1081	1-216-037-00	RES,CHIP	330 5% 1/10W
R1008	1-208-766-11	RES,CHIP	220 0.50% 1/10W	R1082	1-216-037-00	RES,CHIP	330 5% 1/10W
R1009	1-216-033-00	RES,CHIP	220 5% 1/10W	R1083	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1010	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W	R1084	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1011	1-208-766-11	RES,CHIP	220 0.50% 1/10W	R1086	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1012	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1087	1-216-025-91	RES,CHIP	100 5% 1/10W
R1013	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R1088	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1014	1-216-025-91	RES,CHIP	100 5% 1/10W	R1089	1-216-025-91	RES,CHIP	100 5% 1/10W
R1015	1-216-025-91	RES,CHIP	100 5% 1/10W	R1090	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R1016	1-216-025-91	RES,CHIP	100 5% 1/10W	R1091	1-216-025-91	RES,CHIP	100 5% 1/10W
R1017	1-216-025-91	RES,CHIP	100 5% 1/10W	R1092	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1018	1-216-025-91	RES,CHIP	100 5% 1/10W	R1094	1-216-033-00	RES,CHIP	220 5% 1/10W
R1019	1-216-025-91	RES,CHIP	100 5% 1/10W	R1095	1-216-033-00	RES,CHIP	220 5% 1/10W
R1020	1-216-025-91	RES,CHIP	100 5% 1/10W	R1096	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1021	1-216-033-00	RES,CHIP	220 5% 1/10W	R1097	1-216-033-00	RES,CHIP	220 5% 1/10W
R1022	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W	R1098	1-216-033-00	RES,CHIP	220 5% 1/10W
R1023	1-208-766-11	RES,CHIP	220 0.50% 1/10W	R1099	1-216-033-00	RES,CHIP	220 5% 1/10W
R1024	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1100	1-216-033-00	RES,CHIP	220 5% 1/10W
R1025	1-216-025-91	RES,CHIP	100 5% 1/10W	R1101	1-216-025-91	RES,CHIP	100 5% 1/10W
R1026	1-208-814-11	RES,CHIP	22K 0.50% 1/10W	R1102	1-216-033-00	RES,CHIP	220 5% 1/10W
R1027	1-216-025-91	RES,CHIP	100 5% 1/10W	R1103	1-216-033-00	RES,CHIP	220 5% 1/10W
R1028	1-208-814-11	RES,CHIP	22K 0.50% 1/10W	R1104	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1029	1-216-025-91	RES,CHIP	100 5% 1/10W	R1105	1-216-033-00	RES,CHIP	220 5% 1/10W
R1030	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1106	1-216-033-00	RES,CHIP	220 5% 1/10W
R1031	1-216-025-91	RES,CHIP	100 5% 1/10W	R1107	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1032	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1108	1-216-025-91	RES,CHIP	100 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1109	1-216-295-91	CONDUCTOR, CHIP	0	R1167	1-216-121-91	RES,CHIP	1M 5% 1/10W
R1110	1-216-033-00	RES,CHIP	220 5%	R1171	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1111	1-216-033-00	RES,CHIP	220 5%	R1172	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1112	1-216-065-91	RES,CHIP	4.7K 5%	R1175	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1113	1-216-049-91	RES,CHIP	1K 5%	R1178	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1114	1-216-049-91	RES,CHIP	1K 5%	R1180	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1115	1-216-033-00	RES,CHIP	220 5%	R1183	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1116	1-216-049-91	RES,CHIP	1K 5%	R1185	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1117	1-216-041-00	RES,CHIP	470 5%	R1188	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1118	1-216-049-91	RES,CHIP	1K 5%	R1301	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1119	1-216-049-91	RES,CHIP	1K 5%	R1302	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1120	1-216-049-91	RES,CHIP	1K 5%	R1303	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1121	1-216-049-91	RES,CHIP	1K 5%	R1305	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1122	1-216-065-91	RES,CHIP	4.7K 5%	R1306	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W
R1123	1-216-049-91	RES,CHIP	1K 5%	R1307	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1124	1-216-049-91	RES,CHIP	1K 5%	R1308	1-216-025-91	RES,CHIP	100 5% 1/10W
R1125	1-216-097-91	RES,CHIP	100K 5%	R1309	1-216-025-91	RES,CHIP	100 5% 1/10W
R1126	1-216-025-91	RES,CHIP	100 5%	R1310	1-216-295-91	CONDUCTOR, CHIP	0
R1127	1-216-049-91	RES,CHIP	1K 5%	R1311	1-216-025-91	RES,CHIP	100 5% 1/10W
R1129	1-216-049-91	RES,CHIP	1K 5%	R1312	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1130	1-216-033-00	RES,CHIP	220 5%	R1313	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1131	1-216-049-91	RES,CHIP	1K 5%	R1314	1-208-766-11	RES,CHIP	220 0.50% 1/10W
R1132	1-216-033-00	RES,CHIP	220 5%	R1315	1-216-025-91	RES,CHIP	100 5% 1/10W
R1133	1-216-049-91	RES,CHIP	1K 5%	R1316	1-216-025-91	RES,CHIP	100 5% 1/10W
R1134	1-216-049-91	RES,CHIP	1K 5%	R1317	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1135	1-216-033-00	RES,CHIP	220 5%	R1318	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1136	1-216-049-91	RES,CHIP	1K 5%	R1319	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1137	1-216-049-91	RES,CHIP	1K 5%	R1320	1-216-025-91	RES,CHIP	100 5% 1/10W
R1138	1-216-033-00	RES,CHIP	220 5%	R1321	1-216-025-91	RES,CHIP	100 5% 1/10W
R1139	1-216-033-00	RES,CHIP	220 5%	R1322	1-216-025-91	RES,CHIP	100 5% 1/10W
R1140	1-216-033-00	RES,CHIP	220 5%	R1323	1-216-037-00	RES,CHIP	330 5% 1/10W
R1141	1-216-049-91	RES,CHIP	1K 5%	R1324	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1142	1-216-033-00	RES,CHIP	220 5%	R1325	1-216-111-00	RES,CHIP	390K 5% 1/10W
R1143	1-216-033-00	RES,CHIP	220 5%	R1326	1-216-025-91	RES,CHIP	100 5% 1/10W
R1144	1-216-065-91	RES,CHIP	4.7K 5%	R1327	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1145	1-216-033-00	RES,CHIP	220 5%	R1328	1-216-025-91	RES,CHIP	100 5% 1/10W
R1146	1-216-049-91	RES,CHIP	1K 5%	R1329	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1147	1-216-025-91	RES,CHIP	100 5%	R1330	1-216-025-91	RES,CHIP	100 5% 1/10W
R1148	1-216-033-00	RES,CHIP	220 5%	R1331	1-216-025-91	RES,CHIP	100 5% 1/10W
R1149	1-216-049-91	RES,CHIP	1K 5%	R1332	1-216-025-91	RES,CHIP	100 5% 1/10W
R1150	1-216-025-91	RES,CHIP	100 5%	R1333	1-216-043-91	RES,CHIP	560 5% 1/10W
R1151	1-216-033-00	RES,CHIP	220 5%	R1334	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1152	1-216-025-91	RES,CHIP	100 5%	R1335	1-208-768-11	RES,CHIP	270 0.50% 1/10W
R1153	1-216-097-91	RES,CHIP	100K 5%	R1337	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R1154	1-216-097-91	RES,CHIP	100K 5%	R1338	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1155	1-216-049-91	RES,CHIP	1K 5%	R1339	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1156	1-216-033-00	RES,CHIP	220 5%	R1340	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1157	1-216-049-91	RES,CHIP	1K 5%	R1341	1-216-025-91	RES,CHIP	100 5% 1/10W
R1158	1-216-049-91	RES,CHIP	1K 5%	R1342	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1159	1-216-049-91	RES,CHIP	1K 5%	R1343	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1161	1-216-049-91	RES,CHIP	1K 5%	R1345	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1162	1-216-025-91	RES,CHIP	100 5%	R1346	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1163	1-216-025-91	RES,CHIP	100 5%	R1347	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1164	1-216-033-00	RES,CHIP	220 5%	R1348	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1165	1-216-033-00	RES,CHIP	220 5%	R1349	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R1166	1-216-019-00	RES,CHIP	56 5%	R1350	1-216-065-91	RES,CHIP	4.7K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1351	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1417	1-216-025-91	RES,CHIP	100 5% 1/10W
R1352	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1418	1-216-025-91	RES,CHIP	100 5% 1/10W
R1353	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1419	1-216-025-91	RES,CHIP	100 5% 1/10W
R1354	1-216-025-91	RES,CHIP	100 5% 1/10W	R1420	1-216-025-91	RES,CHIP	100 5% 1/10W
R1355	1-216-025-91	RES,CHIP	100 5% 1/10W	R1421	1-216-025-91	RES,CHIP	100 5% 1/10W
R1356	1-216-025-91	RES,CHIP	100 5% 1/10W	R1422	1-216-025-91	RES,CHIP	100 5% 1/10W
R1357	1-216-025-91	RES,CHIP	100 5% 1/10W	R1423	1-216-025-91	RES,CHIP	100 5% 1/10W
R1358	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R1424	1-216-025-91	RES,CHIP	100 5% 1/10W
R1359	1-216-295-91	CONDUCTOR, CHIP	0	R1425	1-216-025-91	RES,CHIP	100 5% 1/10W
R1360	1-216-295-91	CONDUCTOR, CHIP	0	R1426	1-216-025-91	RES,CHIP	100 5% 1/10W
R1361	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1427	1-216-295-91	CONDUCTOR, CHIP	0
R1362	1-216-295-91	CONDUCTOR, CHIP	0	R1428	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1363	1-216-025-91	RES,CHIP	100 5% 1/10W	R1429	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1364	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1430	1-216-295-91	CONDUCTOR, CHIP	0
R1365	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1431	1-216-033-00	RES,CHIP	220 5% 1/10W
R1366	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1432	1-216-025-91	RES,CHIP	100 5% 1/10W
R1367	1-216-295-91	CONDUCTOR, CHIP	0	R1433	1-216-111-00	RES,CHIP	390K 5% 1/10W
R1368	1-208-788-11	RES,CHIP	1.8K 0.50% 1/10W	R1434	1-208-758-11	RES,CHIP	100 0.50% 1/10W
R1369	1-216-025-91	RES,CHIP	100 5% 1/10W	R1435	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1371	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1436	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1372	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1437	1-216-025-91	RES,CHIP	100 5% 1/10W
R1374	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1438	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1375	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1439	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1377	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1440	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1379	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1441	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1380	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1442	1-216-041-00	RES,CHIP	470 5% 1/10W
R1381	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W	R1443	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1382	1-216-295-91	CONDUCTOR, CHIP	0	R1445	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1383	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1446	1-216-043-91	RES,CHIP	560 5% 1/10W
R1384	1-216-295-91	CONDUCTOR, CHIP	0	R1447	1-216-025-91	RES,CHIP	100 5% 1/10W
R1385	1-216-295-91	CONDUCTOR, CHIP	0	R1448	1-216-033-00	RES,CHIP	220 5% 1/10W
R1389	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1449	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1390	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1450	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1391	1-216-021-00	RES,CHIP	68 5% 1/10W	R1451	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1392	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1452	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R1393	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1453	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1394	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1454	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1395	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1455	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1396	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1457	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R1397	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1458	1-216-025-91	RES,CHIP	100 5% 1/10W
R1398	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1460	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1400	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1461	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1401	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1462	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1402	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1463	1-216-025-91	RES,CHIP	100 5% 1/10W
R1404	1-208-822-11	RES,CHIP	47K 0.50% 1/10W	R1464	1-216-025-91	RES,CHIP	100 5% 1/10W
R1405	1-216-037-00	RES,CHIP	330 5% 1/10W	R1465	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1406	1-216-025-91	RES,CHIP	100 5% 1/10W	R1466	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1407	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1467	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1408	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1468	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1410	1-216-025-91	RES,CHIP	100 5% 1/10W	R1470	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1411	1-216-025-91	RES,CHIP	100 5% 1/10W	R1472	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R1412	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1473	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
R1413	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R1474	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1414	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R1475	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1415	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R1476	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1416	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W	R1477	1-216-017-91	RES,CHIP	47 5% 1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1478	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
R1479	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W
R1481	1-216-047-91	RES,CHIP	820 5% 1/10W
R1482	1-216-075-00	RES,CHIP	12K 5% 1/10W
R1484	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
R1485	1-216-025-91	RES,CHIP	100 5% 1/10W
R1486	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1487	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R1488	1-208-784-11	RES,CHIP	1.2K 0.50% 1/10W
R1489	1-216-085-00	RES,CHIP	33K 5% 1/10W
R1490	1-216-025-91	RES,CHIP	100 5% 1/10W
R1492	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1493	1-216-025-91	RES,CHIP	100 5% 1/10W
R1494	1-216-025-91	RES,CHIP	100 5% 1/10W
R1495	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R1496	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1497	1-216-017-91	RES,CHIP	47 5% 1/10W
R1499	1-216-295-91	CONDUCTOR, CHIP	0
R1500	1-208-778-11	RES,CHIP	680 0.50% 1/10W
R1501	1-216-047-91	RES,CHIP	820 5% 1/10W
R1502	1-216-075-00	RES,CHIP	12K 5% 1/10W
R1503	1-216-025-91	RES,CHIP	100 5% 1/10W
R1504	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1509	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1511	1-216-295-91	CONDUCTOR, CHIP	0
R1517	1-216-295-91	CONDUCTOR, CHIP	0
R1518	1-216-295-91	CONDUCTOR, CHIP	0
R1521	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1527	1-216-025-91	RES,CHIP	100 5% 1/10W
R1528	1-216-025-91	RES,CHIP	100 5% 1/10W
R1529	1-216-025-91	RES,CHIP	100 5% 1/10W
R1530	1-216-025-91	RES,CHIP	100 5% 1/10W
R1536	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1537	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1538	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1540	1-208-786-11	RES,CHIP	1.5K 0.50% 1/10W
R1543	1-216-295-91	CONDUCTOR, CHIP	0
R1544	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R1545	1-208-810-11	RES,CHIP	15K 0.50% 1/10W
R1546	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1601	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1602	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1603	1-216-295-91	CONDUCTOR, CHIP	0
R1605	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1607	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1609	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1611	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1612	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1613	1-216-025-91	RES,CHIP	100 5% 1/10W
R1614	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1617	1-216-117-00	RES,CHIP	680K 5% 1/10W
R1619	1-216-025-91	RES,CHIP	100 5% 1/10W
R1620	1-216-025-91	RES,CHIP	100 5% 1/10W
R1621	1-216-025-91	RES,CHIP	100 5% 1/10W
R1622	1-216-025-91	RES,CHIP	100 5% 1/10W
R1623	1-216-025-91	RES,CHIP	100 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1624	1-216-025-91	RES,CHIP	100 5% 1/10W
R1625	1-216-025-91	RES,CHIP	100 5% 1/10W
R1627	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1628	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1629	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1630	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1631	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1632	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1633	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1634	1-208-814-11	RES,CHIP	22K 0.50% 1/10W
R1640	1-208-758-11	RES,CHIP	100 0.50% 1/10W
R1641	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R1642	1-216-025-91	RES,CHIP	100 5% 1/10W
R1647	1-216-025-91	RES,CHIP	100 5% 1/10W
R1650	1-216-025-91	RES,CHIP	100 5% 1/10W
R1653	1-216-025-91	RES,CHIP	100 5% 1/10W
R1654	1-216-025-91	RES,CHIP	100 5% 1/10W
R1658	1-216-025-91	RES,CHIP	100 5% 1/10W
R1663	1-216-025-91	RES,CHIP	100 5% 1/10W
R1666	1-216-025-91	RES,CHIP	100 5% 1/10W
R1668	1-216-025-91	RES,CHIP	100 5% 1/10W
R1669	1-216-025-91	RES,CHIP	100 5% 1/10W
R1670	1-216-025-91	RES,CHIP	100 5% 1/10W
R1671	1-216-025-91	RES,CHIP	100 5% 1/10W
R1672	1-216-025-91	RES,CHIP	100 5% 1/10W
R1673	1-216-025-91	RES,CHIP	100 5% 1/10W
R1674	1-216-025-91	RES,CHIP	100 5% 1/10W
R1675	1-216-025-91	RES,CHIP	100 5% 1/10W
<TUNER>			
TU501	8-598-431-00	TUNER, FSS BTF-WA411	
TU502	8-598-431-00	TUNER, FSS BTF-WA411	
<CRYSTAL>			
X1001	1-767-925-21	VIBRATOR, CRYSTAL	
X1002	1-579-125-11	VIBRATOR, CERAMIC	
X1301	1-577-611-11	OSCILALTOR, CERAMIC	
X1302	1-567-505-11	OSCILLATOR, CRYSTAL	
X1303	1-577-611-11	OSCILALTOR, CERAMIC	
X1305	1-567-505-11	OSCILLATOR, CRYSTAL	

* A-1316-400-A G BOARD, COMPLETE			

4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C6001	Δ 1-104-708-11	FILM	0.47 μ F 20% 250V
C6002	Δ 1-104-706-11	FILM	0.22 μ F 20% 250V
C6003	Δ 1-119-906-51	CERAMIC	2200PF 20% 250V
C6004	1-119-906-51	CERAMIC	2200PF 20% 250V

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
C6006	1-162-599-12	CERAMIC	0.0047 μ F		250V	C6135	1-126-968-11	ELECT	100 μ F	20%	50V
C6007	1-162-599-12	CERAMIC	0.0047 μ F		250V	C6137	1-104-666-11	ELECT	220 μ F	20%	25V
C6008 Δ	1-104-350-11	ELECT(BLOCK)	1000 μ F	20%	250V	C6140	1-104-665-11	ELECT	100 μ F	20%	25V
C6009	1-107-671-91	ELECT	22 μ F	20%	400V	C6145	1-126-916-11	ELECT	1000 μ F	20%	6.3V
C6010 Δ	1-104-350-11	ELECT(BLOCK)	1000 μ F	20%	250V			<CONNECTOR>			
C6012	1-126-968-11	ELECT	100 μ F	20%	50V	CN6004 *	1-580-843-11	PIN, CONNECTOR (POWER)			
C6013	1-126-964-11	ELECT	10 μ F	20%	50V	CN6101 *	1-564-510-11	PLUG, CONNECTOR 7P			
C6014	1-104-664-11	ELECT	47 μ F	20%	25V	CN6102 *	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P			
C6015	1-137-605-11	FILM	0.01 μ F	10%	250V	CN6103	1-695-915-11	TAB (CONTACT)			
C6016	1-126-961-11	ELECT	2.2 μ F	20%	50V	CN6104 *	1-564-512-11	PLUG, CONNECTOR 9P			
C6017	1-126-968-11	ELECT	100 μ F	20%	50V	CN6105 *	1-564-509-11	PLUG, CONNECTOR 6P			
C6018	1-102-112-00	CERAMIC	330PF	10%	50V	CN6106 *	1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P			
C6019	1-102-112-00	CERAMIC	330PF	10%	50V			<DIODE>			
C6020	1-136-165-00	FILM	0.1 μ F	5%	50V	D6001	8-719-068-00	DIODE ERC04-06SE			
C6021	1-126-960-11	ELECT	1 μ F	20%	50V	D6002 Δ	8-719-033-58	DIODE RBV-1506			
C6022	1-137-219-11	FILM	0.015 μ F	5%		D6003	8-719-068-00	DIODE ERC04-06SE			
C6023	1-115-405-11	FILM	0.039 μ F	3%	1KV	D6004	8-719-110-31	DIODE RD12ESB2			
C6025	1-125-969-91	CERAMIC	680PF	10%	1KV	D6005	8-719-979-64	DIODE UF4005PKG23			
C6026	1-125-969-91	CERAMIC	680PF	10%	1KV	D6006	8-719-059-23	DIODE P6KE200AG23			
C6027	1-126-964-11	ELECT	10 μ F	20%	50V	D6007	8-719-991-33	DIODE 1SS133T-77			
C6028	1-136-479-11	FILM	0.001 μ F	2%	50V	D6009	8-719-982-26	DIODE MTZJ-33B			
C6029	1-102-112-00	CERAMIC	330PF	10%	50V	D6010	8-719-991-33	DIODE 1SS133T-77			
C6030	1-102-112-00	CERAMIC	330PF	10%	50V	D6011	8-719-923-60	DIODE MTZJ-T-77-9.1A			
C6031	1-126-960-11	ELECT	1 μ F	20%	50V	D6012	8-719-991-33	DIODE 1SS133T-77			
C6032	1-136-165-00	FILM	0.1 μ F	5%	50V	D6013	8-719-991-33	DIODE 1SS133T-77			
C6033	1-125-969-91	CERAMIC	680PF	10%	1KV	D6014	8-719-991-33	DIODE 1SS133T-77			
C6034	1-125-969-91	CERAMIC	680PF	10%	1KV	D6015	8-719-510-64	DIODE S2LA20F			
C6035	1-126-964-11	ELECT	10 μ F	20%	50V	D6016	8-719-979-64	DIODE UF4005PKG23			
C6036	1-136-165-00	FILM	0.1 μ F	5%	50V	D6017	8-719-110-53	DIODE RD20ESB2			
C6037	1-126-964-11	ELECT	10 μ F	20%	50V	D6018	8-719-979-64	DIODE UF4005PKG23			
C6102	1-104-665-11	ELECT	100 μ F	20%	25V	D6019	8-719-110-53	DIODE RD20ESB2			
C6103	1-104-664-11	ELECT	47 μ F	20%	25V	D6020	8-719-210-53	DIODE 11ES4-TA1B			
C6104	1-101-810-00	CERAMIC	100PF	5%	500V	D6021	8-719-110-53	DIODE RD20ESB2			
C6105	1-101-810-00	CERAMIC	100PF	5%	500V	D6022	8-719-110-53	DIODE RD20ESB2			
C6108	1-104-664-11	ELECT	47 μ F	20%	25V	D6023	8-719-991-33	DIODE 1SS133T-77			
C6113	1-107-639-11	ELECT	47 μ F	20%	160V	D6024	8-719-991-33	DIODE 1SS133T-77			
C6114	1-107-641-11	ELECT	220 μ F	20%	160V	D6025	8-719-979-64	DIODE UF4005PKG23			
C6115	1-104-665-11	ELECT	100 μ F	20%	25V	D6026	8-719-110-53	DIODE RD20ESB2			
C6116	1-126-968-11	ELECT	100 μ F	20%	50V	D6027	8-719-979-64	DIODE UF4005PKG23			
C6117	1-128-546-11	ELECT	10000 μ F	20%	10V	D6028	8-719-110-53	DIODE RD20ESB2			
C6118	1-126-943-11	ELECT	2200 μ F	20%	25V	D6029	8-719-110-53	DIODE RD20ESB2			
C6119	1-126-943-11	ELECT	2200 μ F	20%	25V	D6030	8-719-110-53	DIODE RD20ESB2			
C6120	1-128-549-11	ELECT	3300 μ F	20%	35V	D6031	8-719-210-53	DIODE 11ES4-TA1B			
C6121	1-128-549-11	ELECT	3300 μ F	20%	35V	D6032	8-719-979-64	DIODE UF4005PKG23			
C6122	1-126-943-11	ELECT	2200 μ F	20%	25V	D6033	8-719-991-33	DIODE 1SS133T-77			
C6123	1-107-641-11	ELECT	220 μ F	20%	160V	D6034	8-719-991-33	DIODE 1SS133T-77			
C6124	1-128-549-11	ELECT	3300 μ F	20%	35V	D6035	8-719-110-31	DIODE RD12ESB2			
C6125	1-128-549-11	ELECT	3300 μ F	20%	35V	D6101	8-719-210-53	DIODE 11ES4-TA1B			
C6126	1-104-665-11	ELECT	100 μ F	20%	25V	D6102	8-719-057-96	DIODE D10SC6M-4012			
C6127	1-107-639-11	ELECT	47 μ F	20%	160V	D6103	8-719-052-90	DIODE D1NL40-TA2			
C6128	1-128-549-11	ELECT	3300 μ F	20%	35V	D6104	8-719-031-78	DIODE S2LA40F			
C6129	1-128-549-11	ELECT	3300 μ F	20%	35V	D6105	8-719-052-91	DIODE D4SBS4-F			
C6131	1-104-665-11	ELECT	100 μ F	20%	25V	D6106	8-719-052-90	DIODE D1NL40-TA2			
C6132	1-104-665-11	ELECT	100 μ F	20%	25V						
C6133	1-104-665-11	ELECT	100 μ F	20%	25V						
C6134	1-126-968-11	ELECT	100 μ F	20%	50V						



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REF. NO.	PART NO.	DESCRIPTION	REMARK
D6107	8-719-031-78	DIODE S2L40F	
D6108	8-719-057-96	DIODE D10SC6M-4012	
D6109	8-719-049-92	DIODE SF10SC3L	
D6110	8-719-982-26	DIODE MTZJ-33B	
D6111	8-719-991-33	DIODE 1SS133T-77	
D6112	8-719-991-33	DIODE 1SS133T-77	
D6113	8-719-991-33	DIODE 1SS133T-77	
D6114	8-719-072-30	DIODE D25SC6MRF04	
D6116	8-719-072-29	DIODE D25SC6MF04	
D6117	8-719-988-31	DIODE D10SC6MR	
D6119	8-719-110-31	DIODE RD12ESB2	
D6120	8-719-510-64	DIODE S2LA20F	
D6121	8-719-921-63	DIODE MTZJ-7.5B	
D6122	8-719-991-33	DIODE 1SS133T-77	
D6123	8-719-991-33	DIODE 1SS133T-77	
D6124	8-719-991-33	DIODE 1SS133T-77	
D6125	8-719-991-33	DIODE 1SS133T-77	
<FUSE>			
F6001	Δ 1-576-048-11	FUSE, GLASS TUBE 10A/125V	
F6002	Δ 1-533-759-11	FUSE, GLASS TUBE 6.3A/125V	
	1-533-223-11	CLIP, FUSE ; F6001, 6002	
F6105	Δ 1-576-278-21	FUSE, MULTI	
F6106	Δ 1-533-759-11	FUSE, MULTI	
<FERRITE BEAD>			
FB6101	1-410-397-21	FERRITE	1.1 μ H
FB6102	1-410-397-21	FERRITE	1.1 μ H
<IC>			
IC6001	8-759-468-89	IC TOP209P	
IC6002	8-759-185-47	IC IR2112	
IC6003	8-759-077-25	IC IR3M02A	
IC6004	8-759-185-47	IC IR2112	
IC6005	Δ 8-749-010-64	PHOTO COUPLER PC123F2	
IC6011	Δ 8-749-010-64	PHOTO COUPLER PC123F2	
IC6101	8-749-920-61	IC SE-135N	
IC6102	8-759-103-93	IC UPC393C	
IC6103	8-759-198-31	IC UPC1093J-1-T	
IC6104	8-759-450-47	IC BA05T	
<COIL>			
L6001	Δ 1-431-116-11	TRANSFORMER, LINE FILTER	
L6002	Δ 1-431-116-11	TRANSFORMER, LINE FILTER	
L6103	1-412-523-25	INDUCTOR	6.8 μ H
L6104	1-412-523-25	INDUCTOR	6.8 μ H
L6105	1-412-525-31	INDUCTOR	10 μ H
L6106	1-412-525-31	INDUCTOR	10 μ H
L6107	1-406-659-11	INDUCTOR	0 μ H
L6108	1-412-525-31	INDUCTOR	10 μ H
L6109	1-412-525-31	INDUCTOR	10 μ H
L6110	1-412-525-31	INDUCTOR	10 μ H
L6111	1-412-525-31	INDUCTOR	10 μ H
L6112	1-412-525-31	INDUCTOR	10 μ H

REF. NO.	PART NO.	DESCRIPTION	REMARK
<IC LINK>			
PS6101	Δ 1-533-597-31	LINK, IC	
PS6102	Δ 1-533-597-31	LINK, IC	
PS6103	Δ 1-533-790-31	LINK, IC	
PS6104	Δ 1-533-790-31	LINK, IC	
<TRANSISTOR>			
Q6001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6003	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6006	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6007	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6008	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6009	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6010	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q6011	8-729-140-97	TRANSISTOR 2SB734-34	
Q6012	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6013	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6106	8-729-119-76	TRANSISTOR 2SA1175-HFE	
<RESISTOR>			
R6001	1-219-776-11	CARBON	2.2M 10% 1/2W
R6002	1-219-759-11	CARBON	1M 5% 1/2W
R6004	1-260-131-11	CARBON	470K 5% 1/2W
R6005	1-249-401-11	CARBON	47 5% 1/4W
R6006	1-260-127-11	CARBON	220K 5% 1/2W
R6007	1-249-437-11	CARBON	47K 5% 1/4W
R6008	1-260-127-11	CARBON	220K 5% 1/2W
R6010	1-205-997-11	CEMENTED	2.2 5% 10W
R6011	1-249-437-11	CARBON	47K 5% 1/4W
R6012	1-212-849-00	FUSIBLE	4.7 5% 1/4W
R6013	1-247-895-91	CARBON	470K 5% 1/4W
R6014	1-249-437-11	CARBON	47K 5% 1/4W
R6015	1-249-437-11	CARBON	47K 5% 1/4W
R6016	1-249-437-11	CARBON	47K 5% 1/4W
R6017	1-249-417-11	CARBON	1K 5% 1/4W
R6018	1-247-863-91	CARBON	22K 5% 1/4W
R6019	1-249-429-11	CARBON	10K 5% 1/4W
R6020	1-249-425-11	CARBON	4.7K 5% 1/4W
R6021	1-247-791-91	CARBON	22 5% 1/4W
R6022	1-249-437-11	CARBON	47K 5% 1/4W
R6023	1-247-895-91	CARBON	470K 5% 1/4W
R6024	1-249-397-11	CARBON	22 5% 1/4W
R6025	1-249-397-11	CARBON	22 5% 1/4W
R6026	1-249-425-11	CARBON	4.7K 5% 1/4W
R6027	1-249-425-11	CARBON	4.7K 5% 1/4W
R6028	1-215-427-00	METAL	1.8K 1% 1/4W
R6029	1-247-863-91	CARBON	22K 5% 1/4W
R6030	1-249-437-11	CARBON	47K 5% 1/4W

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REF. NO.	PART NO.	DESCRIPTION		REMARK
R6031	1-249-425-11	CARBON	4.7K	5% 1/4W
R6032	1-249-417-11	CARBON	1K	5% 1/4W
R6033	1-215-444-00	METAL	9.1K	1% 1/4W
R6034	1-249-417-11	CARBON	1K	5% 1/4W
R6035	1-249-397-11	CARBON	22	5% 1/4W
R6036	1-249-397-11	CARBON	22	5% 1/4W
R6037	1-249-425-11	CARBON	4.7K	5% 1/4W
R6038	1-249-425-11	CARBON	4.7K	5% 1/4W
R6039	1-249-429-11	CARBON	10K	5% 1/4W
R6040	1-249-429-11	CARBON	10K	5% 1/4W
R6041	1-249-429-11	CARBON	10K	5% 1/4W
R6042	1-249-437-11	CARBON	47K	5% 1/4W
R6043	1-260-134-11	CARBON	820K	5% 1/2W
R6101	1-215-437-00	METAL	4.7K	1% 1/4W
R6102	1-215-479-00	METAL	270K	1% 1/4W
R6103	1-215-437-00	METAL	4.7K	1% 1/4W
R6104	1-215-413-00	METAL	470	1% 1/4W
R6105	1-249-417-11	CARBON	1K	5% 1/4W
R6106	1-249-417-11	CARBON	1K	5% 1/4W
R6108	1-249-425-11	CARBON	4.7K	5% 1/4W
R6109	1-249-425-11	CARBON	4.7K	5% 1/4W
R6110	1-249-417-11	CARBON	1K	5% 1/4W
R6111	1-215-900-11	METAL OXIDE	22K	5% 2W
R6112	1-249-417-11	CARBON	1K	5% 1/4W
R6113	1-249-429-11	CARBON	10K	5% 1/4W
R6115	1-249-409-11	CARBON	220	5% 1/4W
R6116	1-249-429-11	CARBON	10K	5% 1/4W
R6117	1-249-413-11	CARBON	470	5% 1/4W
R6118	1-216-361-00	METAL OXIDE	0.22	5% 2W
R6119	1-249-429-11	CARBON	10K	5% 1/4W
R6120	1-249-429-11	CARBON	10K	5% 1/4W
R6121	1-249-429-11	CARBON	10K	5% 1/4W
R6122	1-249-377-11	CARBON	0.47	5% 1/4W
R6123	1-249-377-11	CARBON	0.47	5% 1/4W
R6124	1-249-377-11	CARBON	0.47	5% 1/4W
R6125	1-249-425-11	CARBON	4.7K	5% 1/4W
R6126	1-249-417-11	CARBON	1K	5% 1/4W
R6128	1-249-417-11	CARBON	1K	5% 1/4W
R6129	1-249-421-11	CARBON	2.2K	5% 1/4W
R6130	1-249-425-11	CARBON	4.7K	5% 1/4W
R6132	1-249-417-11	CARBON	1K	5% 1/4W
R6133	1-249-425-11	CARBON	4.7K	5% 1/4W
R6134	1-249-417-11	CARBON	1K	5% 1/4W
R6135	1-249-425-11	CARBON	4.7K	5% 1/4W
R6136	1-249-425-11	CARBON	4.7K	5% 1/4W
R6141	1-249-401-11	CARBON	47	5% 1/4W
R6142	1-249-425-11	CARBON	4.7K	5% 1/4W
R6143	1-249-425-11	CARBON	4.7K	5% 1/4W
<RELAY>				
RY6001	Δ 1-515-999-11	RELAY, POWER		
RY6002	Δ 1-515-999-11	RELAY, POWER		

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T6001	Δ 1-429-807-11	TRANSFORMER, CONVERTER (PIT)	
T6002	Δ 1-431-897-11	TRANSFORMER, CONVERTER (PIT)	
T6003	Δ 1-431-732-11	TRANSFORMER, CONVERTER (SRT)	
<VARISTOR>			
VD6001	1-801-073-31	VARISTOR TNR14V471K660	

	* A-1331-781-A	CR BOARD, COMPLETE	

	4-382-854-11	SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C7102	1-162-115-00	CERAMIC 330PF	10% 2KV
C7103	1-107-662-11	ELECT 22 μ F	20% 250V
C7104	1-126-768-11	ELECT 2200 μ F	20% 16V
C7105	1-162-115-00	CERAMIC 330PF	10% 2KV
C7106	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V
C7107	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V
C7108	1-126-967-11	ELECT 47 μ F	20% 50V
C7109	1-161-830-00	CERAMIC 0.0047 μ F	500V
C7110	1-102-050-00	CERAMIC 0.01 μ F	99% 500V
C7111	1-102-157-00	CERAMIC 560PF	10% 500V
C7113	1-126-964-11	ELECT 10 μ F	20% 50V
C7114	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V
<CONNECTOR>			
CN7101	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN7102	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN7103	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN7104	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN7107	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D7102	8-719-921-86	DIODE MTZJ-13	
D7103	8-719-901-83	DIODE 1SS83	
D7104	8-719-901-83	DIODE 1SS83	
D7105	8-719-901-83	DIODE 1SS83	
D7106	8-719-901-83	DIODE 1SS83	
D7107	1-216-295-91	CONDUCTOR, CHIP	0
D7109	8-719-921-86	DIODE MTZJ-13	
D7110	8-719-921-86	DIODE MTZJ-13	
<IC>			
IC7101	8-759-360-83	IC TDA6111Q/N4	

KP-53XBR200/61XBR200

RM-Y902

RM-Y902



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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J7101	Δ 1-251-179-11	SOCKET, CRT	
		<COIL>	
L7102	1-414-223-11	INDUCTOR 470 μ H	
L7103	1-414-181-11	INDUCTOR 4.7 μ H	
L7104	1-414-187-11	INDUCTOR 47 μ H	
		<NEON LAMP>	
NL7101	1-517-778-21	LAMP, NEON	
NL7102	1-517-778-21	LAMP, NEON	
NL7103	1-517-778-21	LAMP, NEON	
		<TRANSISTOR>	
Q7101	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q7102	8-729-216-22	TRANSISTOR 2SA1162-G	
		<RESISTOR>	
R7101	1-260-132-11	CARBON 560K 5% 1/2W	
R7102	1-249-389-11	CARBON 4.7 5% 1/4W	
R7103	1-216-295-91	CONDUCTOR, CHIP 0	
R7105	1-260-117-11	CARBON 33K 5% 1/2W	
R7106	1-219-743-11	CARBON 100 5% 1/2W	
R7107	1-216-067-00	RES,CHIP 5.6K 5% 1/10W	
R7108	1-260-133-11	CARBON 680K 5% 1/2W	
R7109	1-216-075-00	RES,CHIP 12K 5% 1/10W	
R7110	1-208-793-91	RES,CHIP 3.0K 0.50% 1/10W	
R7111	1-216-033-00	RES,CHIP 220 5% 1/10W	
R7112	1-249-424-11	CARBON 3.9K 5% 1/4W	
R7113	1-216-029-00	RES,CHIP 150 5% 1/10W	
R7114	1-208-791-91	RES,CHIP 2.4K 0.50% 1/10W	
R7116	1-215-904-11	METAL OXIDE 100K 5% 2W	
R7117	1-260-093-11	CARBON 330 5% 1/2W	
R7118	1-260-087-11	CARBON 100 5% 1/2W	
R7119	1-260-099-11	CARBON 1K 5% 1/2W	
R7121	1-216-295-91	CONDUCTOR, CHIP 0	
R7122	1-216-033-00	RES,CHIP 220 5% 1/10W	
R7123	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R7126	1-208-802-11	RES,CHIP 6.8K 0.50% 1/10W	
R7127	1-208-802-11	RES,CHIP 6.8K 0.50% 1/10W	
		<SPARK GAP>	
SG7101	1-519-422-11	GAP, SPARK	
SG7102	1-519-422-11	GAP, SPARK	

* A-1331-782-A CG BOARD, COMPLETE

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
4-382-854-11		SCREW (M3X10), P, SW (+)	
C7202	1-162-115-00	CERAMIC 330PF 10% 2KV	
C7203	1-126-768-11	ELECT 2200 μ F 20% 16V	
C7204	1-107-662-11	ELECT 22 μ F 20% 250V	
C7205	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C7206	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C7207	1-162-115-00	CERAMIC 330PF 10% 2KV	
C7208	1-126-967-11	ELECT 47 μ F 20% 50V	
C7209	1-102-050-00	CERAMIC 0.01 μ F 99% 500V	
C7210	1-161-830-00	CERAMIC 0.0047 μ F 500V	
C7211	1-102-157-00	CERAMIC 560PF 10% 500V	
C7212	1-163-085-00	CERAMIC CHIP 2PF 0.25PF 50V	
C7213	1-163-085-00	CERAMIC CHIP 2PF 0.25PF 50V	
C7214	1-126-964-11	ELECT 10 μ F 20% 50V	
		<CONNECTOR>	
CN7201 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN7202 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN7203 *	1-564-512-11	PLUG, CONNECTOR 9P	
CN7204 *	1-564-512-11	PLUG, CONNECTOR 9P	
CN7205 *	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN7208	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D7202	8-719-921-86	DIODE MTZJ-13	
D7203	8-719-901-83	DIODE 1SS83	
D7204	8-719-901-83	DIODE 1SS83	
D7205	8-719-901-83	DIODE 1SS83	
D7206	8-719-901-83	DIODE 1SS83	
D7207	1-216-295-91	CONDUCTOR, CHIP 0	
D7208	8-719-404-49	DIODE MA111	
		<IC>	
IC7201	8-759-360-83	IC TDA6111Q/N4	
		<JACK>	
J7201	Δ 1-251-179-11	SOCKET, CRT	
		<COIL>	
L7201	1-414-223-11	INDUCTOR 470 μ H	
L7203	1-414-181-11	INDUCTOR 4.7 μ H	
L7204	1-414-187-11	INDUCTOR 47 μ H	
		<NEON LAMP>	
NL7201	1-517-778-21	LAMP, NEON	
NL7202	1-517-778-21	LAMP, NEON	

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

Les composants identifiés par une 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
<TRANSISTOR>							
Q7201	8-729-422-27	TRANSISTOR 2SD601A-Q		C7313	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V
Q7202	8-729-216-22	TRANSISTOR 2SA1162-G		C7314	1-126-964-11	ELECT 10μF	20% 50V
<RESISTOR>				<CONNECTOR>			
R7201	1-260-132-11	CARBON 560K	5% 1/2W	CN7301 *	1-564-508-11	PLUG, CONNECTOR 5P	
R7202	1-216-295-91	CONDUCTOR, CHIP	0	CN7302 *	1-564-512-11	PLUG, CONNECTOR 9P	
R7203	1-216-097-91	RES,CHIP 100K	5% 1/10W	CN7303 *	1-564-510-11	PLUG, CONNECTOR 7P	
R7204	1-219-743-11	CARBON 100	5% 1/2W	CN7304 *	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
R7205	1-260-117-11	CARBON 33K	5% 1/2W	CN7307	1-695-915-11	TAB (CONTACT)	
R7206	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	CN7314 *	1-564-507-11	PLUG, CONNECTOR 4P	
R7207	1-216-075-00	RES,CHIP 12K	5% 1/10W	<DIODE>			
R7208	1-216-033-00	RES,CHIP 220	5% 1/10W	D7302	8-719-921-86	DIODE MTZJ-13	
R7209	1-260-133-11	CARBON 680K	5% 1/2W	D7303	8-719-901-83	DIODE 1SS83	
R7210	1-208-794-91	RES,CHIP 3.3K	0.50% 1/10W	D7304	8-719-901-83	DIODE 1SS83	
R7211	1-249-424-11	CARBON 3.9K	5% 1/4W	D7305	8-719-901-83	DIODE 1SS83	
R7212	1-208-788-91	RES,CHIP 1.8K	0.50% 1/10W	D7306	8-719-901-83	DIODE 1SS83	
R7213	1-215-904-11	METAL OXIDE 100K	5% 2W	D7307	8-719-404-49	DIODE MA111	
R7214	1-216-029-00	RES,CHIP 150	5% 1/10W	D7310	8-719-991-33	DIODE 1SS133T-77	
R7215	1-216-295-91	CONDUCTOR, CHIP	0	D7311	8-719-921-86	DIODE MTZJ-13	
R7216	1-260-093-11	CARBON 330	5% 1/2W	D7312	8-719-921-86	DIODE MTZJ-13	
R7217	1-208-790-11	RES,CHIP 2.2K	0.50% 1/10W	D7313	1-216-295-91	CONDUCTOR, CHIP	0
R7218	1-260-099-11	CARBON 1K	5% 1/2W	<IC>			
R7219	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	IC7301	8-759-360-83	IC TDA6111Q/N4	
R7220	1-216-033-00	RES,CHIP 220	5% 1/10W	<JACK>			
R7223	1-208-804-91	RES,CHIP 8.2K	0.50% 1/10W	J7301 Δ	1-251-179-11	SOCKET, CRT	
R7224	1-208-802-11	RES,CHIP 6.8K	0.50% 1/10W	<COIL>			
<SPARK GAP>				L7301	1-414-223-11	INDUCTOR 470μH	
SG7201	1-519-422-11	GAP, SPARK		L7303	1-414-181-11	INDUCTOR 4.7μH	
SG7202	1-519-422-11	GAP, SPARK		L7304	1-414-187-11	INDUCTOR 47μH	
SG7203	1-519-422-11	GAP, SPARK		<NEON LAMP>			
*****				NL7301	1-517-778-21	LAMP, NEON	
* A-1331-783-A	CB BOARD, COMPLETE			NL7302	1-517-778-21	LAMP, NEON	
	*****			NL7303	1-517-778-21	LAMP, NEON	
4-382-854-11	SCREW (M3X10), P, SW (+)			<TRANSISTOR>			
<CAPACITOR>				Q7301	8-729-422-27	TRANSISTOR 2SD601A-Q	
C7302	1-162-115-00	CERAMIC 330PF	10% 2KV	Q7302	8-729-216-22	TRANSISTOR 2SA1162-G	
C7303	1-162-115-00	CERAMIC 330PF	10% 2KV	<RESISTOR>			
C7304	1-126-768-11	ELECT 2200μF	20% 16V	R7301	1-219-743-11	CARBON 100	5% 1/2W
C7305	1-163-038-91	CERAMIC CHIP 0.1μF	25V	R7302	1-260-132-11	CARBON 560K	5% 1/2W
C7306	1-163-038-91	CERAMIC CHIP 0.1μF	25V	R7303	1-249-393-11	CARBON 10	5% 1/4W
C7307	1-107-662-11	ELECT 22μF	20% 250V	R7304	1-216-295-91	CONDUCTOR, CHIP	0
C7308	1-126-967-11	ELECT 47μF	20% 50V	R7306	1-260-099-11	CARBON 1K	5% 1/2W
C7309	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V				
C7310	1-161-830-00	CERAMIC 0.0047μF	500V				
C7311	1-102-050-00	CERAMIC 0.01μF	99% 500V				
C7312	1-102-157-00	CERAMIC 560PF	10% 500V				

KP-53XBR200/61XBR200

RM-Y902

RM-Y902

CB

D

REF. NO.	PART NO.	DESCRIPTION	REMARK
R7307	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R7308	1-260-133-11	CARBON	680K 5% 1/2W
R7309	1-208-791-91	RES,CHIP	2.4K 0.50% 1/10W
R7310	1-208-768-11	RES,CHIP	270 0.50% 1/10W
R7311	1-208-808-11	RES,CHIP	12K 0.50% 1/10W
R7312	1-208-793-91	RES,CHIP	3.0K 0.50% 1/10W
R7313	1-216-033-00	RES,CHIP	220 5% 1/10W
R7314	1-249-424-11	CARBON	3.9K 5% 1/4W
R7315	1-216-029-00	RES,CHIP	150 5% 1/10W
R7316	1-215-904-11	METAL OXIDE	100K 5% 2W
R7317	1-260-093-11	CARBON	330 5% 1/2W
R7319	1-208-803-91	RES,CHIP	7.5K 0.50% 1/10W
R7320	1-260-087-11	CARBON	100 5% 1/2W
R7321	1-260-117-11	CARBON	33K 5% 1/2W
R7322	1-216-295-91	CONDUCTOR, CHIP	0
R7323	1-216-033-00	RES,CHIP	220 5% 1/10W
R7324	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R7326	1-208-803-91	RES,CHIP	7.5K 0.50% 1/10W
R7327	1-208-802-91	RES,CHIP	6.8K 0.50% 1/10W
<SPARK GAP>			
SG7301	1-519-422-11	GAP, SPARK	
SG7302	1-519-422-11	GAP, SPARK	

* A-1343-477-A D BOARD, COMPLETE (VAR) (KP-53XBR200)			

* A-1343-476-A D BOARD, COMPLETE (VAR) (KP-61XBR200)			

4-363-414-00	SPACER, MICA		
4-382-854-11	SCREW (M3X10), P, SW (+)		
7-682-952-09	SCREW +PSW 3X16		
<CAPACITOR>			
C5001	1-104-664-11	ELECT	47μF 20% 25V
C5002	1-126-960-11	ELECT	1μF 20% 50V
C5003	1-104-664-11	ELECT	47μF 20% 25V
C5004	1-101-002-00	CERAMIC	0.0022μF 50V
C5005	1-130-495-00	FILM	0.1μF 5% 50V
C5006	1-101-002-00	CERAMIC	0.0022μF 50V
C5007	1-102-973-00	CERAMIC	100PF 5% 50V
C5008	1-126-967-11	ELECT	47μF 20% 50V
C5010	1-102-973-00	CERAMIC	100PF 5% 50V
C5011	1-126-967-11	ELECT	47μF 20% 50V
C5012	1-107-637-11	ELECT	22μF 20% 160V
C5013	1-126-967-11	ELECT	47μF 20% 50V
C5014	1-101-002-00	CERAMIC	0.0022μF 50V
C5015	1-101-880-00	CERAMIC	47PF 5% 50V
C5016	1-106-383-00	MYLAR	0.047μF 10% 200V
C5017	1-126-967-11	ELECT	47μF 20% 50V
C5018	1-126-963-11	ELECT	4.7μF 20% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C5019	1-102-228-00	CERAMIC	470PF 10% 500V
C5020	1-130-495-00	FILM	0.1μF 5% 50V
C5022	1-137-372-11	FILM	0.022μF 5% 50V
C5023	1-126-960-11	ELECT	1μF 20% 50V
C5024	1-126-942-61	ELECT	1000μF 20% 25V
C5025	1-126-942-61	ELECT	1000μF 20% 25V
C5026	1-137-370-11	FILM	0.01μF 5% 50V
C5028	1-102-228-00	CERAMIC	470PF 10% 500V
C5029	1-164-096-11	CERAMIC	0.01μF 50V
C5030	1-107-639-11	ELECT	47μF 20% 160V
C5031	1-106-383-00	MYLAR	0.047μF 10% 200V
C5032	1-126-972-11	ELECT	1000μF 20% 50V
C5033	1-101-002-00	CERAMIC	0.0022μF 50V
C5034	1-136-177-00	FILM	1μF 5% 50V
C5035	1-126-967-11	ELECT	47μF 20% 50V
C5036	1-164-096-11	CERAMIC	0.01μF 50V
C5037	1-126-969-11	ELECT	220μF 20% 50V
C5038	1-115-524-11	FILM	1.5μF 5% 250V
C5039	1-117-836-11	FILM	6800PF 3% 2KV
C5040	1-137-378-11	FILM	0.22μF 5% 50V
C5041	1-137-420-11	FILM	0.047μF 10% 100V
C5042	1-162-116-00	CERAMIC	680PF 10% 2KV
C5043	1-162-116-00	CERAMIC	680PF 10% 2KV
C5044	1-123-024-21	ELECT	33μF 160V
C5045	1-162-114-00	CERAMIC	0.0047μF 2KV
C5047	1-137-399-11	FILM	0.1μF 10% 100V
C5048	1-137-399-11	FILM	0.1μF 10% 100V
C5049	1-126-933-11	ELECT	100μF 20% 16V
C5050	1-136-479-11	FILM	0.001μF 5% 50V
C5051	1-102-228-00	CERAMIC	470PF 10% 500V
C5052	1-126-972-11	ELECT	1000μF 20% 50V
C5061	1-102-973-00	CERAMIC	100PF 5% 50V
C5062	1-102-973-00	CERAMIC	100PF 5% 50V
C5063	1-102-973-00	CERAMIC	100PF 5% 50V
C5064	1-102-973-00	CERAMIC	100PF 5% 50V
C5065	1-102-973-00	CERAMIC	100PF 5% 50V
C5066	1-102-973-00	CERAMIC	100PF 5% 50V
C5071	1-126-968-11	ELECT	100μF 20% 50V
C5072	1-126-968-11	ELECT	100μF 20% 50V
C5073	1-126-968-11	ELECT	100μF 20% 50V
C5074	1-126-968-11	ELECT	100μF 20% 50V
C5075	1-126-968-11	ELECT	100μF 20% 50V
C5076	1-126-968-11	ELECT	100μF 20% 50V
C5079	1-126-968-11	ELECT	100μF 20% 50V
C5080	1-126-968-11	ELECT	100μF 20% 50V
C5085	1-101-002-00	CERAMIC	0.0022μF 50V
C5086	1-130-495-00	FILM	0.1μF 5% 50V
C5087	1-130-495-00	FILM	0.1μF 5% 50V
C5088	1-115-521-11	FILM	0.82μF 5% 200V
C5089	1-106-220-00	MYLAR	0.1μF 10% 100V
C5090	1-126-960-11	ELECT	1μF 20% 50V
C5091	1-126-942-61	ELECT	1000μF 20% 25V
C5092	1-126-942-61	ELECT	1000μF 20% 25V
C5093	1-137-370-11	FILM	0.01μF 5% 50V
C5094	1-137-370-11	FILM	0.01μF 5% 50V
C5095	1-126-964-11	ELECT	10μF 20% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C8001	1-107-655-11	ELECT	47μF 20% 250V	C8064	1-130-495-00	FILM	0.1μF 5% 50V
C8002	1-124-347-00	ELECT	100μF 20% 160V	C8065	1-126-964-11	ELECT	10μF 20% 50V
C8003	1-124-347-00	ELECT	100μF 20% 160V	C8066	1-137-364-11	FILM	0.001μF 5% 50V
C8004	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C8067	1-104-661-91	ELECT	330μF 20% 16V
C8005	1-106-387-00	MYLAR	0.068μF 10% 200V	C8068	1-137-410-11	FILM	0.001μF 10% 100V
C8006	1-126-959-11	ELECT	0.47μF 20% 50V	C8069	1-126-967-11	ELECT	47μF 20% 50V
C8007	1-137-150-11	MYLAR	0.01μF 10% 100V	C8070	1-102-110-00	CERAMIC	220PF 10% 50V
C8008	1-102-030-00	CERAMIC	330PF 10% 500V	C8071	1-126-963-11	ELECT	4.7μF 20% 50V
C8009	1-102-244-00	CERAMIC	220PF 10% 500V	C8072	1-126-964-11	ELECT	10μF 20% 50V
C8010	1-130-481-00	FILM	0.0068μF 5% 50V	C8073	1-126-967-11	ELECT	47μF 20% 50V
C8011	1-126-934-11	ELECT	220μF 20% 16V	C8074	1-137-410-11	FILM	0.001μF 10% 100V
C8012	1-136-347-11	FILM	0.0047μF 5% 630V	C8075	1-126-965-11	ELECT	22μF 20% 50V
C8013	1-126-964-11	ELECT	10μF 20% 50V	C8076	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C8014	1-102-228-00	CERAMIC	470PF 10% 500V	C8077	1-137-370-11	FILM	0.01μF 5% 50V
C8015	1-126-933-11	ELECT	100μF 20% 16V	C8078	1-130-495-00	FILM	0.1μF 5% 50V
C8016	1-126-964-11	ELECT	10μF 20% 50V	C8079	1-126-967-11	ELECT	47μF 20% 50V
C8017	1-126-964-11	ELECT	10μF 20% 50V	C8080	1-126-967-11	ELECT	47μF 20% 50V
C8018	1-117-838-11	FILM	8200PF 3% 2KV	C8081	1-126-967-11	ELECT	47μF 20% 50V
C8019	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C8082	1-137-366-11	FILM	0.0022μF 5% 50V
C8020	1-162-318-11	CERAMIC	0.001μF 10% 500V	C8083	1-126-964-11	ELECT	10μF 20% 50V
C8021	1-136-601-11	FILM	0.01μF 5% 630V	C8084	1-126-967-11	ELECT	47μF 20% 50V
C8022	1-126-767-11	ELECT	1000μF 20% 16V	C8085	1-104-661-91	ELECT	330μF 20% 16V
C8024	1-126-968-11	ELECT	100μF 20% 50V	C8086	1-137-150-11	MYLAR	0.01μF 10% 100V
C8025	1-128-562-11	ELECT	47μF 20% 100V	C8089	1-137-399-11	FILM	0.1μF 10% 100V
C8026	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C8090	1-126-964-11	ELECT	10μF 20% 50V
C8028	1-130-495-00	FILM	0.1μF 5% 50V	C8091	1-126-967-11	ELECT	47μF 20% 50V
C8029	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C8092	1-126-964-11	ELECT	10μF 20% 50V
C8030	1-126-967-11	ELECT	47μF 20% 50V	C8093	1-126-964-11	ELECT	10μF 20% 50V
C8031	1-137-374-11	FILM	0.047μF 5% 50V	C8094	1-126-964-11	ELECT	10μF 20% 50V
C8032	1-106-387-00	MYLAR	0.068μF 10% 200V	C8095	1-126-967-11	ELECT	47μF 20% 50V
C8033	1-130-495-00	FILM	0.1μF 5% 50V	C8096	1-126-967-11	ELECT	47μF 20% 50V
C8034	1-126-967-11	ELECT	47μF 20% 50V	C8097	1-126-967-11	ELECT	47μF 20% 50V
C8035	1-126-967-11	ELECT	47μF 20% 50V	C8098	1-126-967-11	ELECT	47μF 20% 50V
C8037	1-130-495-00	FILM	0.1μF 5% 50V	C8099	1-126-964-11	ELECT	10μF 20% 50V
C8038	1-126-967-11	ELECT	47μF 20% 50V	C8100	1-162-114-00	CERAMIC	0.0047μF 2KV
C8039	1-137-420-11	FILM	0.047μF 10% 100V	C8102	1-102-125-00	CERAMIC	0.0047μF 10% 50V
C8040	1-126-964-11	ELECT	10μF 20% 50V	C8103	1-126-964-11	ELECT	10μF 20% 50V
C8041	1-130-495-00	FILM	0.1μF 5% 50V	C8104	1-126-961-11	ELECT	2.2μF 20% 50V
C8042	1-126-967-11	ELECT	47μF 20% 50V	C8105	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C8043	1-130-495-00	FILM	0.1μF 5% 50V	C8106	1-163-237-11	CERAMIC CHIP	27PF 5% 50V
C8045	1-137-431-11	FILM	560PF 5% 50V	C8107	1-163-224-11	CERAMIC CHIP	7PF 0.25PF 50V
C8046	1-130-495-00	FILM	0.1μF 5% 50V	C8108	1-163-243-11	CERAMIC CHIP	47PF 5% 50V
C8047	1-130-495-00	FILM	0.1μF 5% 50V	C8109	1-102-125-00	CERAMIC	0.0047μF 10% 50V
C8048	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C8110	1-126-964-11	ELECT	10μF 20% 50V
C8049	1-126-967-11	ELECT	47μF 20% 50V	C8111	1-126-933-11	ELECT	100μF 20% 16V
C8050	1-126-967-11	ELECT	47μF 20% 50V	<CONNECTOR>			
C8051	1-126-967-11	ELECT	47μF 20% 50V	CN5001 *	1-564-506-11	PLUG, CONNECTOR 3P	
C8052	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	CN5002 *	1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
C8053	1-126-960-11	ELECT	1μF 20% 50V	CN5003 *	1-564-509-11	PLUG, CONNECTOR 6P	
C8054	1-126-960-11	ELECT	1μF 20% 50V	CN5004 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
C8055	1-126-961-11	ELECT	2.2μF 20% 50V	CN5005 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C8057	1-126-964-11	ELECT	10μF 20% 50V	CN5006 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C8059	1-126-965-11	ELECT	22μF 20% 50V	CN5007 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C8060	1-126-963-11	ELECT	4.7μF 20% 50V	CN5008 *	1-564-506-11	PLUG, CONNECTOR 3P	
C8061	1-126-965-11	ELECT	22μF 20% 50V				
C8062	1-126-965-11	ELECT	22μF 20% 50V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN5009 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8026	8-719-914-43	DIODE DAN202K	
CN5010 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8027	8-719-914-43	DIODE DAN202K	
CN5011 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P		D8029	8-719-914-43	DIODE DAN202K	
CN5012 *	1-564-507-11	PLUG, CONNECTOR 4P		D8030	8-719-400-75	DIODE MA3091	
CN5013 *	1-564-507-11	PLUG, CONNECTOR 4P		D8031	8-719-105-82	DIODE RD5.1M-B2	
CN5014 *	1-564-507-11	PLUG, CONNECTOR 4P		D8032	8-719-302-43	DIODE EL1Z	
CN8001 *	1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P		D8033	8-719-914-43	DIODE DAN202K	
CN8002	1-695-915-11	TAB (CONTACT)		D8034	8-719-028-00	DIODE MA3033-L	
CN8003	1-564-509-11	PLUG, CONNECTOR 6P		D8035	8-719-105-82	DIODE RD5.1M-B2	
CN8004 *	1-564-510-11	PLUG, CONNECTOR 7P		D8036	8-719-914-43	DIODE DAN202K	
CN8005 *	1-564-507-11	PLUG, CONNECTOR 4P		D8037	8-719-914-43	DIODE DAN202K	
CN8006 *	1-564-507-11	PLUG, CONNECTOR 4P		D8038	8-719-106-81	DIODE RD13M-B3	
CN8007 *	1-506-371-00	PIN, CONNECTOR 2P		D8039	8-719-110-17	DIODE RD10ESB2	
CN8008 *	1-506-371-00	PIN, CONNECTOR 2P		D8040	8-719-914-43	DIODE DAN202K	
CN8009	1-695-915-11	TAB (CONTACT)		D8041	8-719-106-81	DIODE RD13M-B3	
		<DIODE>		D8042	8-759-157-40	IC UPC574J	
				D8045	8-719-400-75	DIODE MA3091	
D5001	8-719-991-33	DIODE 1SS133T-77		D8046	8-719-402-57	DIODE MA3150H-TX	
D5002	8-719-991-33	DIODE 1SS133T-77		D8047	8-719-402-57	DIODE MA3150H-TX	
D5003	8-719-302-43	DIODE EL1Z		D8048	8-719-914-43	DIODE DAN202K	
D5004	8-719-991-33	DIODE 1SS133T-77		D8050	8-719-914-43	DIODE DAN202K	
D5005	8-719-109-89	DIODE RD5.6ESB2		D8051	8-719-914-44	DIODE DAP202K	
D5006	8-719-991-33	DIODE 1SS133T-77		D8052	8-719-914-43	DIODE DAN202K	
D5007	8-719-302-43	DIODE EL1Z					
D5008	8-719-991-33	DIODE 1SS133T-77				<FERRITE BEAD>	
D5009	8-719-979-85	DIODE EGP20G		FB8001	1-410-396-41	FERRITE	0.45μH
D5010	8-719-908-03	DIODE GP08D		FB8002	1-410-396-41	FERRITE	0.45μH
D5011	8-719-908-03	DIODE GP08D					
D5012	8-719-991-33	DIODE 1SS133T-77				<IC>	
D5013	8-719-979-99	DIODE ERD08M-15		IC5001	8-759-701-88	IC NJM7912FA	
D5014	8-719-991-33	DIODE 1SS133T-77		IC5002	8-759-231-58	IC TA7812S	
D5015	8-719-018-82	DIODE RGP02-20EL-6394		IC5004	8-759-192-71	IC STV9379	
D5016	8-719-110-61	DIODE RD24ESB1		IC5005	8-749-014-67	IC STK392-020	
D5017	8-719-110-61	DIODE RD24ESB1		IC5006	8-749-014-67	IC STK392-020	
D5018	8-719-991-33	DIODE 1SS133T-77		IC8001	8-759-711-28	IC NJM2058D	
D8001	8-719-105-82	DIODE RD5.1M-B2		IC8002	8-759-103-93	IC UPC393C	
D8002	8-719-914-43	DIODE DAN202K		IC8003	8-759-012-67	IC MC7905CT	
D8003	8-719-979-85	DIODE EGP20G		IC8004	8-759-231-53	IC TA7805S	
D8004	8-719-914-43	DIODE DAN202K		IC8005	8-759-183-37	IC CA0007AD	
D8005	8-719-914-43	DIODE DAN202K		IC8006	8-759-103-93	IC UPC393C	
D8006	8-719-914-43	DIODE DAN202K		IC8007	8-759-711-28	IC NJM2058D	
D8007	8-719-945-80	DIODE ERC06-15S		IC8008	8-759-135-80	IC UPC358C	
D8008	8-719-106-81	DIODE RD13M-B3		IC8009	8-759-135-80	IC UPC358C	
D8009	8-719-106-81	DIODE RD13M-B3		IC8010	8-759-103-93	IC UPC393C	
D8010	8-719-054-52	DIODE D8LC20U-4015				<COIL>	
D8011	8-719-945-80	DIODE ERC06-15S		L5001	1-412-533-21	INDUCTOR	47μH
D8013	8-719-920-67	DIODE ERC91-02		L5002	1-412-533-21	INDUCTOR	47μH
D8014	8-719-302-43	DIODE EL1Z		L5003	1-412-533-21	INDUCTOR	47μH
D8015	8-719-914-43	DIODE DAN202K		L5004	1-412-533-21	INDUCTOR	47μH
D8017	8-719-914-43	DIODE DAN202K		L5007	1-416-764-11	COIL, HORIZONTAL LINEARITY	
D8018	8-719-983-14	DIODE MTZJ-T-77-3.9					
D8021	8-719-914-43	DIODE DAN202K		L5008	1-406-665-11	INDUCTOR	0μH
D8023	8-719-914-43	DIODE DAN202K		L5009	1-412-524-11	INDUCTOR	8.2μH
D8024	8-719-914-43	DIODE DAN202K					
D8025	8-719-914-43	DIODE DAN202K					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L5010	1-412-533-21	INDUCTOR	47μH	Q8007	8-729-017-64	TRANSISTOR 2SC3997-YB	
L5011	1-412-533-21	INDUCTOR	47μH	Q8008	8-729-024-30	TRANSISTOR IRFI640LF	
L5012	1-412-533-21	INDUCTOR	47μH	Q8009	8-729-216-22	TRANSISTOR 2SA1162-G	
L5013	1-412-533-21	INDUCTOR	47μH	Q8010	8-729-216-22	TRANSISTOR 2SA1162-G	
L8001	1-414-223-11	INDUCTOR	470μH	Q8013	8-729-422-27	TRANSISTOR 2SD601A-Q	
L8002	1-406-977-21	INDUCTOR	0μH	Q8014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
L8003	1-422-613-11	COIL, AIR CORE		Q8015	8-729-140-93	TRANSISTOR 2SB733-34	
L8004	1-412-521-31	INDUCTOR	4.7μH	Q8016	8-729-140-96	TRANSISTOR 2SD774-34	
L8005	1-412-533-21	INDUCTOR	47μH	Q8017	8-729-216-22	TRANSISTOR 2SA1162-G	
L8006	1-412-533-21	INDUCTOR	47μH	Q8018	8-729-231-55	TRANSISTOR 2SC2878-AB	
		<NEON LAMP>		Q8019	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8001	1-517-778-21	LAMP, NEON		Q8020	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8002	1-517-778-21	LAMP, NEON		Q8021	8-729-422-27	TRANSISTOR 2SD601A-Q	
NL8003	1-517-778-21	LAMP, NEON		Q8022	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<IC LINK>		Q8023	8-729-027-38	TRANSISTOR DTA144EKA-T146	
PS5001	1-533-595-21	LINK, IC		Q8024	1-801-806-11	TRANSISTOR DTC144EKA-T146	
PS5002	1-533-595-21	LINK, IC		Q8025	8-729-027-38	TRANSISTOR DTA144EKA-T146	
PS8001	1-533-593-11	LINK, IC		Q8026	8-729-216-22	TRANSISTOR 2SA1162-G	
		<TRANSISTOR>		Q8027	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5002	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q8028	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5003	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q8030	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q5004	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q8031	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5005	8-729-119-78	TRANSISTOR 2SC2785-HFE				<RESISTOR>	
Q5006	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5002	1-249-417-11	CARBON	1K 5% 1/4W
Q5007	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5003	1-249-417-11	CARBON	1K 5% 1/4W
Q5008	8-729-119-80	TRANSISTOR 2SC2688-LK		R5004	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5009	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5006	1-249-417-11	CARBON	1K 5% 1/4W
Q5010	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5007	1-216-472-11	METAL OXIDE	39 5% 3W (KP-61XBR200)
Q5011	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5007	1-216-474-11	METAL OXIDE	82 5% 3W (KP-53XBR200)
Q5012	8-729-201-32	TRANSISTOR 2SA1013-O		R5008	1-216-472-11	METAL OXIDE	39 5% 3W (KP-61XBR200)
Q5013	8-729-017-64	TRANSISTOR 2SC3997-YB		R5008	1-216-474-11	METAL OXIDE	82 5% 3W (KP-53XBR200)
Q5014	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5009	1-249-421-11	CARBON	2.2K 5% 1/4W
Q5015	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5010	1-249-419-11	CARBON	1.5K 5% 1/4W
Q5016	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5011	1-247-843-11	CARBON	3.3K 5% 1/4W
Q5017	8-729-201-32	TRANSISTOR 2SA1013-O		R5012	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5018	8-729-304-92	TRANSISTOR 2SB649A-C		R5013	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5019	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5014	1-249-425-11	CARBON	4.7K 5% 1/4W
Q5020	8-729-044-88	TRANSISTOR 2SA1943-0(LBSONY)		R5015	1-249-418-11	CARBON	1.2K 5% 1/4W
Q5022	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5016	1-249-429-11	CARBON	10K 5% 1/4W
Q5023	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5017	1-247-863-91	CARBON	22K 5% 1/4W
Q5024	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5018	1-247-843-11	CARBON	3.3K 5% 1/4W
Q5025	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5020	1-249-437-11	CARBON	47K 5% 1/4W
Q5026	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5021	1-215-445-00	METAL	10K 1% 1/4W
Q5027	8-729-119-78	TRANSISTOR 2SC2785-HFE		R5022	1-247-863-91	CARBON	22K 5% 1/4W
Q8001	8-729-119-80	TRANSISTOR 2SC2688-LK		R5023	1-247-863-91	CARBON	22K 5% 1/4W
Q8002	8-729-122-12	TRANSISTOR 2SA1221-L		R5024	1-249-427-11	CARBON	6.8K 5% 1/4W
Q8003	8-729-119-80	TRANSISTOR 2SC2688-LK		R5025	1-249-420-11	CARBON	1.8K 5% 1/4W
Q8004	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R5026	1-215-897-11	METAL OXIDE	6.8K 5% 2W
Q8005	8-729-231-55	TRANSISTOR 2SC2878-AB		R5028	1-249-377-11	CARBON	0.47 5% 1/4W
Q8006	8-729-216-22	TRANSISTOR 2SA1162-G		R5029	1-249-377-11	CARBON	0.47 5% 1/4W
				R5030	1-249-437-11	CARBON	47K 5% 1/4W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R5031	1-216-435-11	METAL OXIDE	2.7K 5% 1W	R5091	1-249-417-11	CARBON	1K 5% 1/4W
R5032	1-215-897-11	METAL OXIDE	6.8K 5% 2W	R5092	1-249-417-11	CARBON	1K 5% 1/4W
R5033	1-249-417-11	CARBON	1K 5% 1/4W	R5093	1-247-843-11	CARBON	3.3K 5% 1/4W
R5034	1-249-429-11	CARBON	10K 5% 1/4W	R5095	1-247-843-11	CARBON	3.3K 5% 1/4W
R5035	1-249-429-11	CARBON	10K 5% 1/4W				
R5036	1-249-425-11	CARBON	4.7K 5% 1/4W	R5097	1-249-417-11	CARBON	1K 5% 1/4W
R5037	1-249-417-11	CARBON	1K 5% 1/4W	R5098	1-247-807-31	CARBON	100 5% 1/4W
R5039	1-249-429-11	CARBON	10K 5% 1/4W	R5099	1-249-417-11	CARBON	1K 5% 1/4W
R5040	1-249-417-11	CARBON	1K 5% 1/4W	R5100	1-247-807-31	CARBON	100 5% 1/4W
R5041	1-247-895-91	CARBON	470K 5% 1/4W	R5101	1-214-808-11	METAL	4.7 1% 1/2W
R5042	1-249-425-11	CARBON	4.7K 5% 1/4W	R5102	1-214-808-11	METAL	4.7 1% 1/2W
R5043	1-249-417-11	CARBON	1K 5% 1/4W	R5103	1-214-808-11	METAL	4.7 1% 1/2W
R5044	1-215-900-11	METAL OXIDE	22K 5% 2W	R5104	1-214-808-11	METAL	4.7 1% 1/2W
R5045	1-249-421-11	CARBON	2.2K 5% 1/4W	R5105	1-214-808-11	METAL	4.7 1% 1/2W
R5046	1-216-389-11	METAL OXIDE	1 5% 3W	R5106	1-214-808-11	METAL	4.7 1% 1/2W
R5047	1-215-450-00	METAL	16K 1% 1/4W	R5107	1-249-417-11	CARBON	1K 5% 1/4W
R5048	1-249-413-11	CARBON	470 5% 1/4W	R5108	1-249-417-11	CARBON	1K 5% 1/4W
R5049	1-215-905-11	METAL OXIDE	10 5% 3W	R5109	1-214-808-11	METAL	4.7 1% 1/2W
R5050	1-247-807-31	CARBON	100 5% 1/4W	R5110	1-214-808-11	METAL	4.7 1% 1/2W
R5051	1-249-435-11	CARBON	33K 5% 1/4W	R5111	1-214-808-11	METAL	4.7 1% 1/2W
R5052	1-249-430-11	CARBON	12K 5% 1/4W	R5112	1-214-808-11	METAL	4.7 1% 1/2W
R5053	1-249-429-11	CARBON	10K 5% 1/4W	R5113	1-214-808-11	METAL	4.7 1% 1/2W
R5054	1-249-413-11	CARBON	470 5% 1/4W	R5114	1-214-808-11	METAL	4.7 1% 1/2W
R5055	1-215-912-11	METAL OXIDE	150 5% 3W	R5115	1-533-595-21	LINK, IC	
R5056	1-249-417-11	CARBON	1K 5% 1/4W	R5116	1-533-595-21	LINK, IC	
R5057	1-249-429-11	CARBON	10K 5% 1/4W	R5117	1-214-808-11	METAL	4.7 1% 1/2W
R5058	1-249-430-11	CARBON	12K 5% 1/4W	R5118	1-214-808-11	METAL	4.7 1% 1/2W
R5059	1-249-383-11	CARBON	1.5 5% 1/4W	R5119	1-533-595-21	LINK, IC	
R5060	1-249-423-11	CARBON	3.3K 5% 1/4W	R5120	1-533-595-21	LINK, IC	
R5061	1-249-429-11	CARBON	10K 5% 1/4W	R5121	1-214-808-11	METAL	4.7 1% 1/2W
R5062	1-247-735-11	SOLID	47 20% 1/2W	R5122	1-214-808-11	METAL	4.7 1% 1/2W
R5063	1-247-807-31	CARBON	100 5% 1/4W	R5123	1-214-808-11	METAL	4.7 1% 1/2W
R5064	1-249-423-11	CARBON	3.3K 5% 1/4W	R5124	1-214-808-11	METAL	4.7 1% 1/2W
R5065	1-249-417-11	CARBON	1K 5% 1/4W	R5125	1-533-595-21	LINK, IC	
R5066	1-215-925-11	METAL OXIDE	22K 5% 3W	R5126	1-533-595-21	LINK, IC	
R5067	1-214-800-11	METAL	2.2 1% 1/2W	R5127	1-214-808-11	METAL	4.7 1% 1/2W
R5068	1-249-429-11	CARBON	10K 5% 1/4W	R5128	1-214-808-11	METAL	4.7 1% 1/2W
R5069	1-249-429-11	CARBON	10K 5% 1/4W	R5129	1-214-808-11	METAL	4.7 1% 1/2W
R5070	1-260-324-11	CARBON	470 5% 1/2W	R5130	1-214-808-11	METAL	4.7 1% 1/2W
R5071	1-214-800-11	METAL	2.2 1% 1/2W	R5131	1-214-808-11	METAL	4.7 1% 1/2W
R5072	1-247-807-31	CARBON	100 5% 1/4W	R5132	1-214-808-11	METAL	4.7 1% 1/2W
R5073	1-215-433-00	METAL	3.3K 1% 1/4W	R5133	1-214-808-11	METAL	4.7 1% 1/2W
R5074	1-249-437-11	CARBON	47K 5% 1/4W	R5134	1-214-808-11	METAL	4.7 1% 1/2W
R5075	1-215-445-00	METAL	10K 1% 1/4W	R5135	1-214-808-11	METAL	4.7 1% 1/2W
R5076	1-215-857-11	METAL OXIDE	10 5% 1W	R5136	1-214-808-11	METAL	4.7 1% 1/2W
R5077	1-216-477-11	METAL OXIDE	270 5% 3W	R5137	1-214-808-11	METAL	4.7 1% 1/2W
R5081	1-247-807-31	CARBON	100 5% 1/4W	R5138	1-214-808-11	METAL	4.7 1% 1/2W
R5082	1-247-807-31	CARBON	100 5% 1/4W	R5143	1-249-429-11	CARBON	10K 5% 1/4W
R5083	1-247-807-31	CARBON	100 5% 1/4W	R5144	1-249-429-11	CARBON	10K 5% 1/4W
R5084	1-247-807-31	CARBON	100 5% 1/4W	R5145	1-249-429-11	CARBON	10K 5% 1/4W
R5085	1-247-807-31	CARBON	100 5% 1/4W	R5146	1-249-429-11	CARBON	10K 5% 1/4W
R5086	1-247-807-31	CARBON	100 5% 1/4W	R5147	1-249-429-11	CARBON	10K 5% 1/4W
R5087	1-247-843-11	CARBON	3.3K 5% 1/4W	R5148	1-249-429-11	CARBON	10K 5% 1/4W
R5088	1-247-843-11	CARBON	3.3K 5% 1/4W	R5149	1-249-429-11	CARBON	10K 5% 1/4W
R5089	1-247-843-11	CARBON	3.3K 5% 1/4W	R5150	1-249-429-11	CARBON	10K 5% 1/4W
R5090	1-247-843-11	CARBON	3.3K 5% 1/4W	R5151	1-249-429-11	CARBON	10K 5% 1/4W
				R5152	1-249-429-11	CARBON	10K 5% 1/4W



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
R5153	1-249-429-11	CARBON	10K	5%	1/4W	R8072	1-216-081-00	RES,CHIP	22K 5% 1/10W
R5154	1-249-429-11	CARBON	10K	5%	1/4W	R8073	1-216-109-00	RES,CHIP	330K 5% 1/10W (KP-53XBR200)
R5155	1-249-425-11	CARBON	4.7K	5%	1/4W				
R8001	1-249-425-11	CARBON	4.7K	5%	1/4W	R8073	1-216-689-11	RES,CHIP	39K 5% 1/10W (KP-61XBR200)
R8002	1-249-431-11	CARBON	15K	5%	1/4W				
R8003	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R8074	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R8004	1-260-328-11	CARBON	1K	5%	1/2W	R8075	1-260-316-51	CARBON	100 5% 1/2W
R8005	1-215-925-11	METAL OXIDE	22K	5%	3W	R8076	1-216-105-91	RES,CHIP	220K 5% 1/10W
R8006	1-260-123-11	CARBON	100K	5%	1/2W	R8077	1-216-091-00	RES,CHIP	56K 5% 1/10W
R8007	1-215-925-11	METAL OXIDE	22K	5%	3W	R8080	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8008	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R8081	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8009	1-216-435-11	METAL OXIDE	2.7K	5%	1W	R8082	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8010	1-216-025-00	RES,CHIP	100	5%	1/10W	R8083	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8011	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R8084	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8012	1-216-484-00	METAL OXIDE	3.9K	5%	3W	R8085	1-249-377-11	CARBON	0.47 5% 1/4W
R8013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R8086	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8014	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8087	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8015	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8088	1-216-041-00	RES,CHIP	470 5% 1/10W (KP-53XBR200)
R8016	1-216-484-00	METAL OXIDE	3.9K	5%	3W				
R8017	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8088	1-216-049-00	RES,CHIP	1K 5% 1/10W (KP-61XBR200)
R8018	1-216-073-00	RES,CHIP	10K	5%	1/10W				
R8019	1-215-905-11	METAL OXIDE	10	5%	3W	R8090	1-216-081-00	RES,CHIP	22K 5% 1/10W
R8020	1-216-484-00	METAL OXIDE	3.9K	5%	3W	R8091	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R8021	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8092	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8022	1-216-097-91	RES,CHIP	100K	5%	1/10W	R8093	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8023	1-215-870-11	METAL OXIDE	1.5K	5%	1W	R8094	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R8024	1-249-427-11	CARBON	6.8K	5%	1/4W	R8095	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8026	1-215-902-11	METAL OXIDE	47K	5%	2W	R8096	1-216-045-00	RES,CHIP	680 5% 1/10W
R8027	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R8097	1-216-081-00	RES,CHIP	22K 5% 1/10W
R8028	1-216-089-91	RES,CHIP	47K	5%	1/10W	R8098	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8030	1-215-902-11	METAL OXIDE	47K	5%	2W	R8099	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R8031	1-216-073-00	RES,CHIP	10K	5%	1/10W	R8100	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8033	1-215-902-11	METAL OXIDE	47K	5%	2W	R8101	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R8036	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	R8102	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8037	1-216-085-00	RES,CHIP	33K	5%	1/10W	R8103	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R8038	1-216-376-00	METAL OXIDE	3.9	5%	2W	R8105	1-216-689-11	RES,CHIP	39K 5% 1/10W
R8039	1-216-376-00	METAL OXIDE	3.9	5%	2W	R8106	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8041	1-215-902-11	METAL OXIDE	47K	5%	2W	R8107	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R8044	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8108	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R8046	1-216-025-00	RES,CHIP	100	5%	1/10W	R8109	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R8049	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8110	1-208-810-11	RES,CHIP	15K 0.50% 1/10W
R8050	1-260-099-11	CARBON	1K	5%	1/2W	R8111	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R8051	1-216-025-00	RES,CHIP	100	5%	1/10W	R8112	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8055	1-260-087-11	CARBON	100	5%	1/2W	R8113	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8057	1-216-045-00	RES,CHIP	680	5%	1/10W	R8114	1-216-025-00	RES,CHIP	100 5% 1/10W
R8058	1-216-025-00	RES,CHIP	100	5%	1/10W	R8115	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8059	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R8116	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8060	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R8117	1-208-806-11	RES,CHIP	10K 0.50% 1/10W
R8063	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R8118	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R8064	1-216-426-11	METAL OXIDE	82	5%	1W	R8119	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R8065	1-216-045-00	RES,CHIP	680	5%	1/10W	R8120	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8067	1-216-059-00	RES,CHIP	2.7K	5%	1/10W	R8121	1-249-377-11	CARBON	0.47 5% 1/4W
R8068	1-216-037-00	RES,CHIP	330	5%	1/10W	R8122	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8069	1-216-426-11	METAL OXIDE	82	5%	1W	R8123	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R8070	1-260-316-51	CARBON	100	5%	1/2W	R8125	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R8071	1-216-113-00	RES,CHIP	470K	5%	1/10W	R8126	1-216-081-00	RES,CHIP	22K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK		
D3102	8-719-053-43	DIODE SLR-325VCT31			
		<RESISTOR>			
R3101	1-215-417-00	METAL	680	1%	1/4W
R3102	1-215-421-00	METAL	1K	1%	1/4W
R3103	1-215-423-00	METAL	1.2K	1%	1/4W
R3104	1-215-427-00	METAL	1.8K	1%	1/4W
R3105	1-215-433-00	METAL	3.3K	1%	1/4W
		<SWITCH>			
S3101	1-572-198-11	SWITCH, KEYBOARD			
S3102	1-572-198-11	SWITCH, KEYBOARD			
S3103	1-572-198-11	SWITCH, KEYBOARD			
S3104	1-572-198-11	SWITCH, KEYBOARD			
S3105	1-572-198-11	SWITCH, KEYBOARD			
S3106	1-572-198-11	SWITCH, KEYBOARD			

	* A-1372-449-A	HB BOARD, COMPLETE	*****		
		<CONNECTOR>			
CN3201 *	1-564-526-11	PLUG, CONNECTOR 11P			
CN3202 *	1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D3201	8-719-108-12	DIODE RD9.1EW			
D3202	8-719-108-12	DIODE RD9.1EW			
D3203	8-719-108-12	DIODE RD9.1EW			
D3204	8-719-108-12	DIODE RD9.1EW			
D3205	8-719-108-12	DIODE RD9.1EW			
D3206	8-719-108-12	DIODE RD9.1EW			
		<JACK>			
J3201	1-770-361-11	TERMINAL BLOCK, S			
		<RESISTOR>			
R3201	1-247-804-11	CARBON	75	5%	1/4W
R3202	1-249-417-11	CARBON	1K	5%	1/4W
R3203	1-247-804-11	CARBON	75	5%	1/4W
R3204	1-247-804-11	CARBON	75	5%	1/4W
R3205	1-247-895-91	CARBON	470K	5%	1/4W
R3206	1-247-895-91	CARBON	470K	5%	1/4W
R3207	1-215-441-00	METAL	6.8K	1%	1/4W
R3209	1-215-451-00	METAL	18K	1%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK		
		<SWITCH>			
S3201	1-572-198-11	SWITCH, KEYBOARD			
S3202	1-572-198-11	SWITCH, KEYBOARD			

	* A-1372-450-A	HC BOARD, COMPLETE	*****		
		<CONNECTOR>			
CN3301 *	1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D3301	8-719-109-89	DIODE RD5.6ESB2			
D3302	8-719-109-89	DIODE RD5.6ESB2			
		<IC>			
IC3301	8-742-088-10	HYB IC SBX1780-51(10)			
		<RESISTOR>			
R3301	1-247-807-31	CARBON	100	5%	1/4W
R3302	1-247-807-31	CARBON	100	5%	1/4W

	* A-1373-675-A	U BOARD, COMPLETE	*****		
		<CAPACITOR>			
C3501	1-126-964-11	ELECT	10μF	20%	50V
C3502	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C3503	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C3504	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C3524	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C3525	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C3526	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
		<CONNECTOR>			
CN3501 *	1-564-522-11	PLUG, CONNECTOR 7P			
		<DIODE>			
D3501	8-719-158-15	DIODE RD5.6SB			
D3502	8-719-158-15	DIODE RD5.6SB			
D3503	8-719-158-15	DIODE RD5.6SB			
D3504	8-719-158-15	DIODE RD5.6SB			



REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC3501	8-759-470-63	IC NJM2145M-TE2	
		<JACK>	
J3501	1-764-143-11	JACK 3P	
J3502	1-764-143-11	JACK 3P	
J3503	1-764-143-11	JACK 3P	
J3504	1-764-143-11	JACK 3P	
		<TRANSISTOR>	
Q3501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3503	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3505	8-729-216-22	TRANSISTOR 2SA1162-G	
		<RESISTOR>	
R3501	1-216-009-00	RES,CHIP	22 5% 1/10W
R3503	1-216-009-00	RES,CHIP	22 5% 1/10W
R3505	1-216-009-00	RES,CHIP	22 5% 1/10W
R3507	1-216-009-00	RES,CHIP	22 5% 1/10W
R3509	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3511	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3513	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3515	1-216-025-91	RES,CHIP	100 5% 1/10W
R3516	1-216-025-91	RES,CHIP	100 5% 1/10W
R3517	1-216-025-91	RES,CHIP	100 5% 1/10W
R3518	1-216-025-91	RES,CHIP	100 5% 1/10W
R3519	1-216-025-91	RES,CHIP	100 5% 1/10W
R3520	1-216-025-91	RES,CHIP	100 5% 1/10W
R3521	1-216-025-91	RES,CHIP	100 5% 1/10W
R3522	1-216-025-91	RES,CHIP	100 5% 1/10W
R3523	1-216-025-91	RES,CHIP	100 5% 1/10W

	* A-1380-573-A	K BOARD, COMPLETE	*****
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		<CAPACITOR>	
C2103	1-104-664-11	ELECT	47μF 20% 25V
C2104	1-104-664-11	ELECT	47μF 20% 25V
C2105	1-104-664-11	ELECT	47μF 20% 25V
C2106	1-104-664-11	ELECT	47μF 20% 25V
C2107	1-104-664-11	ELECT	47μF 20% 25V
C2108	1-104-664-11	ELECT	47μF 20% 25V
C2111	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C2112	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C2113	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C2114	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C2115	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C2116	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C2117	1-104-664-11	ELECT	47μF 20% 25V
C2118	1-130-495-00	FILM	0.1μF 5% 50V
C2121	1-126-965-11	ELECT	22μF 20% 50V
C2122	1-136-177-00	FILM	1μF 5% 50V
C2123	1-137-370-11	FILM	0.01μF 5% 50V
C2124	1-137-365-11	FILM	0.0015μF 5% 50V
C2125	1-137-375-11	FILM	0.068μF 5% 50V
C2126	1-130-495-00	FILM	0.1μF 5% 50V
C2127	1-130-495-00	FILM	0.1μF 5% 50V
C2128	1-137-375-11	FILM	0.068μF 5% 50V
C2129	1-137-370-11	FILM	0.01μF 5% 50V
C2130	1-137-434-11	FILM	0.0018μF 5% 50V
C2131	1-130-495-00	FILM	0.1μF 5% 50V
C2132	1-130-495-00	FILM	0.1μF 5% 50V
C2133	1-130-495-00	FILM	0.1μF 5% 50V
C2134	1-137-365-11	FILM	0.0015μF 5% 50V
C2135	1-136-356-11	FILM	470PF 5% 50V
C2136	1-136-357-11	FILM	680PF 5% 50V
C2137	1-137-437-11	FILM	0.0056μF 5% 50V
C2138	1-137-374-11	FILM	0.047μF 5% 50V
C2139	1-136-175-00	FILM	0.68μF 5% 50V
C2140	1-137-378-11	FILM	0.22μF 5% 50V
C2141	1-137-378-11	FILM	0.22μF 5% 50V
C2142	1-126-963-11	ELECT	4.7μF 20% 50V
C2143	1-126-963-11	ELECT	4.7μF 20% 50V
C2144	1-137-378-11	FILM	0.22μF 5% 50V
C2145	1-137-378-11	FILM	0.22μF 5% 50V
C2146	1-130-495-00	FILM	0.1μF 5% 50V
C2147	1-137-374-11	FILM	0.047μF 5% 50V
C2148	1-137-374-11	FILM	0.047μF 5% 50V
C2149	1-130-495-00	FILM	0.1μF 5% 50V
C2150	1-130-495-00	FILM	0.1μF 5% 50V
C2151	1-137-372-11	FILM	0.022μF 5% 50V
C2152	1-137-372-11	FILM	0.022μF 5% 50V
C2153	1-130-495-00	FILM	0.1μF 5% 50V
C2154	1-136-357-11	FILM	680PF 5% 50V
C2155	1-130-495-00	FILM	0.1μF 5% 50V
C2156	1-130-495-00	FILM	0.1μF 5% 50V
C2157	1-126-965-11	ELECT	22μF 20% 50V
C2158	1-126-964-11	ELECT	10μF 20% 50V
C2159	1-137-437-11	FILM	0.0056μF 5% 50V
C2160	1-128-549-11	ELECT	3300μF 20% 35V
C2161	1-128-549-11	ELECT	3300μF 20% 35V
C2162	1-130-495-00	FILM	0.1μF 5% 50V
C2163	1-130-495-00	FILM	0.1μF 5% 50V
C2164	1-107-698-11	ELECT	10μF 20% 25V
C2165	1-107-698-11	ELECT	10μF 20% 25V
C2166	1-126-965-11	ELECT	22μF 20% 50V
C2167	1-126-935-11	ELECT	470μF 20% 16V
C2168	1-126-933-11	ELECT	100μF 20% 16V
C2169	1-136-357-11	FILM	680PF 5% 50V
C2170	1-130-495-00	FILM	0.1μF 5% 50V
C2171	1-130-495-00	FILM	0.1μF 5% 50V
C2172	1-104-664-11	ELECT	47μF 20% 25V
C2173	1-104-664-11	ELECT	47μF 20% 25V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2174	1-126-933-11	ELECT	100μF 20% 16V	C2627	1-130-495-00	FILM	0.1μF 5% 50V
C2176	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C2628	1-130-495-00	FILM	0.1μF 5% 50V
C2177	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C2631	1-104-665-11	ELECT	100μF 20% 25V
C2178	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C2632	1-104-665-11	ELECT	100μF 20% 25V
C2301	1-126-960-11	ELECT	1μF 20% 50V	C2633	1-107-718-91	ELECT	100μF 20% 50V
C2302	1-126-960-11	ELECT	1μF 20% 50V	C2801	1-126-960-11	ELECT	1μF 20% 50V
C2303	1-126-965-11	ELECT	22μF 20% 50V	C2802	1-126-960-11	ELECT	1μF 20% 50V
C2304	1-163-014-00	CERAMIC CHIP	0.0027μF 5% 50V	C2803	1-126-964-11	ELECT	10μF 20% 50V
C2305	1-163-014-00	CERAMIC CHIP	0.0027μF 5% 50V	C2804	1-126-964-11	ELECT	10μF 20% 50V
C2306	1-126-961-11	ELECT	2.2μF 20% 50V			<CONNECTOR>	
C2307	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN2101 *	1-691-757-11	PIN, CONNECTOR (PC BOARD) 8P	
C2308	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN2102 *	1-564-510-11	PLUG, CONNECTOR 7P	
C2309	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN2103	1-564-513-11	PLUG, CONNECTOR 10P	
C2310	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN2601 *	1-564-507-11	PLUG, CONNECTOR 4P	
C2311	1-126-961-11	ELECT	2.2μF 20% 50V	CN2602 *	1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
C2312	1-126-965-11	ELECT	22μF 20% 50V	CN2603 *	1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
C2313	1-163-014-00	CERAMIC CHIP	0.0027μF 5% 50V			<DIODE>	
C2314	1-163-014-00	CERAMIC CHIP	0.0027μF 5% 50V	D2101	8-719-404-49	DIODE MA111	
C2315	1-126-961-11	ELECT	2.2μF 20% 50V	D2102	8-719-404-49	DIODE MA111	
C2316	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D2103	8-719-404-49	DIODE MA111	
C2317	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D2104	8-719-404-49	DIODE MA111	
C2318	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D2105	8-719-404-49	DIODE MA111	
C2319	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D2106	8-719-404-49	DIODE MA111	
C2320	1-126-961-11	ELECT	2.2μF 20% 50V	D2107	8-719-404-49	DIODE MA111	
C2321	1-107-698-11	ELECT	10μF 20% 25V	D2108	8-719-404-49	DIODE MA111	
C2322	1-107-698-11	ELECT	10μF 20% 25V	D2109	8-719-404-49	DIODE MA111	
C2323	1-107-698-11	ELECT	10μF 20% 25V	D2110	8-719-404-49	DIODE MA111	
C2324	1-107-698-11	ELECT	10μF 20% 25V	D2111	8-719-404-49	DIODE MA111	
C2325	1-126-964-11	ELECT	10μF 20% 50V	D2112	8-719-404-49	DIODE MA111	
C2326	1-126-964-11	ELECT	10μF 20% 50V	D2113	8-719-977-28	DIODE DTZ10B	
C2327	1-104-664-11	ELECT	47μF 20% 25V	D2114	8-719-977-28	DIODE DTZ10B	
C2328	1-104-664-11	ELECT	47μF 20% 25V	D2115	8-719-977-28	DIODE DTZ10B	
C2329	1-104-664-11	ELECT	47μF 20% 25V	D2116	8-719-404-49	DIODE MA111	
C2601	1-126-960-11	ELECT	1μF 20% 50V	D2601	8-719-404-49	DIODE MA111	
C2602	1-126-964-11	ELECT	10μF 20% 50V	D2602	8-719-402-92	DIODE MA3220M-TX	
C2605	1-126-964-11	ELECT	10μF 20% 50V	D2603	8-719-402-92	DIODE MA3220M-TX	
C2606	1-130-495-00	FILM	0.1μF 5% 50V	D2604	8-719-402-92	DIODE MA3220M-TX	
C2607	1-130-495-00	FILM	0.1μF 5% 50V	D2605	8-719-402-92	DIODE MA3220M-TX	
C2608	1-126-960-11	ELECT	1μF 20% 50V	D2606	8-719-402-92	DIODE MA3220M-TX	
C2609	1-130-495-00	FILM	0.1μF 5% 50V	D2607	8-719-402-92	DIODE MA3220M-TX	
C2610	1-130-495-00	FILM	0.1μF 5% 50V	D2608	8-719-402-92	DIODE MA3220M-TX	
C2611	1-130-495-00	FILM	0.1μF 5% 50V	D2609	8-719-402-92	DIODE MA3220M-TX	
C2612	1-126-960-11	ELECT	1μF 20% 50V	D2610	8-719-402-92	DIODE MA3220M-TX	
C2613	1-126-960-11	ELECT	1μF 20% 50V	D2611	8-719-404-49	DIODE MA111	
C2614	1-126-960-11	ELECT	1μF 20% 50V	D2612	8-719-404-49	DIODE MA111	
C2615	1-126-964-11	ELECT	10μF 20% 50V	D2613	8-719-404-49	DIODE MA111	
C2617	1-130-495-00	FILM	0.1μF 5% 50V	D2614	8-719-402-92	DIODE MA3220M-TX	
C2618	1-130-495-00	FILM	0.1μF 5% 50V	D2615	8-719-402-92	DIODE MA3220M-TX	
C2619	1-130-495-00	FILM	0.1μF 5% 50V	D2616	8-719-402-92	DIODE MA3220M-TX	
C2620	1-126-963-11	ELECT	4.7μF 20% 50V	D2617	8-719-402-92	DIODE MA3220M-TX	
C2621	1-126-960-11	ELECT	1μF 20% 50V	D2618	8-719-404-49	DIODE MA111	
C2622	1-130-495-00	FILM	0.1μF 5% 50V	D2620	8-719-402-92	DIODE MA3220M-TX	
C2623	1-126-964-11	ELECT	10μF 20% 50V				
C2624	1-126-964-11	ELECT	10μF 20% 50V				
C2625	1-104-664-11	ELECT	47μF 20% 25V				
C2626	1-104-664-11	ELECT	47μF 20% 25V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D2621	8-719-977-28	DIODE DTZ10B				<RESISTOR>	
D2622	8-719-977-28	DIODE DTZ10B					
D2623	8-719-977-28	DIODE DTZ10B		R2104	1-216-477-11	METAL OXIDE 270	5% 3W
D2624	8-719-977-28	DIODE DTZ10B		R2105	1-215-912-11	METAL OXIDE 150	5% 3W
D2801	8-719-400-75	DIODE MA3091		R2106	1-216-295-91	CONDUCTOR, CHIP	0
				R2107	1-215-912-11	METAL OXIDE 150	5% 3W
D2802	8-719-400-75	DIODE MA3091		R2109	1-216-073-00	RES,CHIP	10K 5% 1/10W
D2803	8-719-400-75	DIODE MA3091					
D2804	8-719-400-75	DIODE MA3091		R2110	1-216-081-00	RES,CHIP	22K 5% 1/10W
D2805	8-719-400-75	DIODE MA3091		R2111	1-216-025-91	RES,CHIP	100 5% 1/10W
D2806	8-719-400-75	DIODE MA3091		R2112	1-216-025-91	RES,CHIP	100 5% 1/10W
				R2113	1-216-025-91	RES,CHIP	100 5% 1/10W
D2807	8-719-400-75	DIODE MA3091		R2114	1-216-121-91	RES,CHIP	1M 5% 1/10W
D2808	8-719-400-75	DIODE MA3091					
		<IC>		R2115	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2116	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
IC2102	8-759-231-53	IC TA7805S		R2117	1-216-089-91	RES,CHIP	47K 5% 1/10W
IC2103	8-759-198-03	IC PQ09RF21		R2118	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
IC2104	8-759-231-58	IC TA7812S		R2119	1-216-081-00	RES,CHIP	22K 5% 1/10W
IC2105	8-759-544-37	IC NJW1103					
IC2301	8-759-634-51	IC M5218AP		R2120	1-216-081-00	RES,CHIP	22K 5% 1/10W
				R2121	1-216-109-00	RES,CHIP	330K 5% 1/10W
IC2302	8-759-544-72	IC TDA7312		R2122	1-216-089-91	RES,CHIP	47K 5% 1/10W
IC2303	8-759-544-72	IC TDA7312		R2123	1-216-077-00	RES,CHIP	15K 5% 1/10W
IC2601	8-759-190-89	IC TDA7265		R2124	1-216-077-00	RES,CHIP	15K 5% 1/10W
IC2602	8-759-072-99	IC TDA2052					
IC2603	8-759-190-89	IC TDA7265		R2125	1-216-081-00	RES,CHIP	22K 5% 1/10W
		<JACK>		R2126	1-216-081-00	RES,CHIP	22K 5% 1/10W
J2601	1-785-083-11	JACK BLOCK, PIN 2P		R2127	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
J2602	1-785-083-21	JACK BLOCK, PIN 2P		R2128	1-216-097-91	RES,CHIP	100K 5% 1/10W
		<TRANSISTOR>		R2129	1-216-105-91	RES,CHIP	220K 5% 1/10W
Q2101	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q2102	8-729-422-27	TRANSISTOR 2SD601A-Q		R2133	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2103	8-729-216-22	TRANSISTOR 2SA1162-G		R2134	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2104	8-729-216-22	TRANSISTOR 2SA1162-G		R2135	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2105	8-729-422-27	TRANSISTOR 2SD601A-Q		R2136	1-216-025-91	RES,CHIP	100 5% 1/10W
				R2137	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2601	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q2602	8-729-422-27	TRANSISTOR 2SD601A-Q		R2138	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2603	8-729-216-22	TRANSISTOR 2SA1162-G		R2139	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q2604	8-729-422-27	TRANSISTOR 2SD601A-Q		R2140	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q2605	8-729-422-27	TRANSISTOR 2SD601A-Q		R2141	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
				R2142	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q2606	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q2607	8-729-422-27	TRANSISTOR 2SD601A-Q		R2143	1-216-025-91	RES,CHIP	100 5% 1/10W
Q2608	8-729-422-27	TRANSISTOR 2SD601A-Q		R2144	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2609	8-729-422-27	TRANSISTOR 2SD601A-Q		R2145	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q2610	8-729-216-22	TRANSISTOR 2SA1162-G		R2146	1-216-077-00	RES,CHIP	15K 5% 1/10W
				R2147	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
Q2801	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q2802	8-729-422-27	TRANSISTOR 2SD601A-Q		R2148	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2803	8-729-422-27	TRANSISTOR 2SD601A-Q		R2149	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q2804	8-729-422-27	TRANSISTOR 2SD601A-Q		R2164	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
Q2805	8-729-422-27	TRANSISTOR 2SD601A-Q		R2165	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
				R2166	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q2806	8-729-422-27	TRANSISTOR 2SD601A-Q					
				R2167	1-216-109-00	RES,CHIP	330K 5% 1/10W
				R2301	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2302	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2303	1-216-075-00	RES,CHIP	12K 5% 1/10W
				R2304	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R2305	1-216-075-00	RES,CHIP	12K 5% 1/10W
				R2306	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R2307	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2308	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R2309	1-216-067-00	RES,CHIP	5.6K 5% 1/10W

KP-53XBR200/61XBR200

RM-Y902

RM-Y902



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
C4105	1-137-364-11	FILM 0.001 μ F 5% 50V	
C4106	1-104-987-11	FILM 0.001 μ F 10% 200V	
C4107	1-104-987-11	FILM 0.001 μ F 10% 200V	
C4108	1-107-364-11	MYLAR 0.01 μ F 10% 200V	
C4109	1-126-968-11	ELECT 100 μ F 20% 50V	
C4110	1-107-637-11	ELECT 22 μ F 20% 160V	
C4111	1-126-968-11	ELECT 100 μ F 20% 50V	
C4112	1-161-830-00	CERAMIC 0.0047 μ F 500V	
C4113	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4114	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4115	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4116	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
<CONNECTOR>			
CN4101 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN4102 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN4104 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN4105 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN4107 *	1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P	
<DIODE>			
D4101	8-719-404-49	DIODE MA111	
D4102	8-719-921-86	DIODE MTZJ-13	
D4103	8-719-921-86	DIODE MTZJ-13	
D4104	8-719-404-49	DIODE MA111	
<CONNECTOR>			
DY4101 Δ	1-451-476-11	DEFLECTION YOKE	
<COIL>			
L4101	1-414-183-41	INDUCTOR 10 μ H	
L4102	1-414-187-11	INDUCTOR 47 μ H	
<TRANSISTOR>			
Q4101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4103	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4104	8-729-045-04	TRANSISTOR 2SC5511	
Q4105	8-729-045-05	TRANSISTOR 2SA2005	
Q4106	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4107	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4108	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4109	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4110	8-729-422-27	TRANSISTOR 2SD601A-Q	
<RESISTOR>			
R4101	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4102	1-208-800-11	RES,CHIP 5.6K 0.50% 1/10W	
R4103	1-208-794-91	RES,CHIP 3.3K 0.50% 1/10W	
R4104	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4105	1-216-475-11	METAL OXIDE 120 5% 3W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4106	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R4107	1-216-475-11	METAL OXIDE 120 5% 3W	
R4108	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4109	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4110	1-249-414-11	CARBON 560 5% 1/4W	
R4111	1-247-863-91	CARBON 22K 5% 1/4W	
R4112	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4113	1-249-417-11	CARBON 1K 5% 1/4W	
R4114	1-249-414-11	CARBON 560 5% 1/4W	
R4115	1-247-863-91	CARBON 22K 5% 1/4W	
R4116	1-249-397-11	CARBON 22 5% 1/4W	
R4117	1-249-415-11	CARBON 680 5% 1/4W	
R4118	1-249-415-11	CARBON 680 5% 1/4W	
R4119	1-249-384-11	CARBON 1.8 5% 1/4W	
R4120	1-249-384-11	CARBON 1.8 5% 1/4W	
R4121	1-249-399-11	CARBON 33 5% 1/4W	
R4122	1-249-399-11	CARBON 33 5% 1/4W	
R4123	1-216-476-11	METAL OXIDE 180 5% 3W	
R4124	1-208-806-11	RES,CHIP 10K 0.50% 1/10W	
R4125	1-208-806-11	RES,CHIP 10K 0.50% 1/10W	
R4126	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4127	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R4128	1-216-049-91	RES,CHIP 1K 5% 1/10W	

* A-1390-835-A ZG BOARD, COMPLETE			

4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C4201	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C4202	1-107-667-11	ELECT 2.2 μ F 20% 160V	
C4203	1-137-364-11	FILM 0.001 μ F 5% 50V	
C4204	1-137-364-11	FILM 0.001 μ F 5% 50V	
C4205	1-104-987-11	FILM 0.001 μ F 10% 200V	
C4206	1-104-987-11	FILM 0.001 μ F 10% 200V	
C4207	1-107-364-11	MYLAR 0.01 μ F 10% 200V	
C4208	1-126-968-11	ELECT 100 μ F 20% 50V	
C4209	1-126-968-11	ELECT 100 μ F 20% 50V	
C4210	1-107-637-11	ELECT 22 μ F 20% 160V	
C4211	1-161-830-00	CERAMIC 0.0047 μ F 500V	
C4212	1-106-220-00	MYLAR 0.1 μ F 10% 100V	
C4213	1-106-220-00	MYLAR 0.1 μ F 10% 100V	
C4214	1-104-664-11	ELECT 47 μ F 20% 16V	
C4215	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4216	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4217	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C4218	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
<CONNECTOR>			
CN4201 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN4202 *	1-564-509-11	PLUG, CONNECTOR 6P	

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

Les composants identifiés par une 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
CN4203 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN4204 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN4205 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN4206 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN4207 *	1-564-506-11	PLUG, CONNECTOR 3P	
<DIODE>			
D4201	8-719-921-86	DIODE MTZJ-13	
D4202	8-719-921-86	DIODE MTZJ-13	
D4203	8-719-404-49	DIODE MA111	
D4204	8-719-404-49	DIODE MA111	
<CONNECTOR>			
DY4201 Δ	1-451-476-11	DEFLECTION YOKE	
<COIL>			
L4201	1-414-187-11	INDUCTOR 47 μ H	
L4202	1-414-183-41	INDUCTOR 10 μ H	
<TRANSISTOR>			
Q4201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4202	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4203	8-729-045-04	TRANSISTOR 2SC5511	
Q4204	8-729-045-05	TRANSISTOR 2SA2005	
Q4205	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4206	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4207	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4208	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4209	8-729-216-22	TRANSISTOR 2SA1162-G	
<RESISTOR>			
R4201	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4202	1-216-475-11	METAL OXIDE 120 5% 3W	
R4203	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4204	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4205	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4206	1-216-475-11	METAL OXIDE 120 5% 3W	
R4207	1-249-397-11	CARBON 22 5% 1/4W	
R4208	1-247-863-91	CARBON 22K 5% 1/4W	
R4209	1-249-414-11	CARBON 560 5% 1/4W	
R4210	1-249-415-11	CARBON 680 5% 1/4W	
R4211	1-249-414-11	CARBON 560 5% 1/4W	
R4212	1-247-863-91	CARBON 22K 5% 1/4W	
R4213	1-249-415-11	CARBON 680 5% 1/4W	
R4214	1-249-417-11	CARBON 1K 5% 1/4W	
R4215	1-249-384-11	CARBON 1.8 5% 1/4W	
R4216	1-249-384-11	CARBON 1.8 5% 1/4W	
R4217	1-249-399-11	CARBON 33 5% 1/4W	
R4218	1-249-399-11	CARBON 33 5% 1/4W	
R4219	1-216-476-11	METAL OXIDE 180 5% 3W	
R4221	1-208-806-11	RES,CHIP 10K 0.50% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4222	1-208-800-11	RES,CHIP 5.6K	0.50% 1/10W
R4223	1-208-794-91	RES,CHIP 3.3K	0.50% 1/10W
R4224	1-208-806-11	RES,CHIP 10K	0.50% 1/10W
R4225	1-216-073-00	RES,CHIP 10K	5% 1/10W
R4226	1-216-025-91	RES,CHIP 100	5% 1/10W
R4227	1-216-025-91	RES,CHIP 100	5% 1/10W
R4228	1-216-049-91	RES,CHIP 1K	5% 1/10W
R4229	1-216-049-91	RES,CHIP 1K	5% 1/10W

* A-1390-836-A ZB BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4301	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V
C4302	1-107-667-11	ELECT 2.2 μ F	20% 160V
C4303	1-137-364-11	FILM 0.001 μ F	5% 50V
C4304	1-137-364-11	FILM 0.001 μ F	5% 50V
C4305	1-104-987-11	FILM 0.001 μ F	10% 200V
C4306	1-104-987-11	FILM 0.001 μ F	10% 200V
C4307	1-107-364-11	MYLAR 0.01 μ F	10% 200V
C4308	1-126-968-11	ELECT 100 μ F	20% 50V
C4309	1-126-968-11	ELECT 100 μ F	20% 50V
C4310	1-107-637-11	ELECT 22 μ F	20% 160V
C4311	1-161-830-00	CERAMIC 0.0047 μ F	500V
C4312	1-104-664-11	ELECT 47 μ F	20% 16V
C4313	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C4314	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C4315	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C4316	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V

<CONNECTOR>

CN4301 *	1-564-509-11	PLUG, CONNECTOR 6P
CN4302 *	1-564-507-11	PLUG, CONNECTOR 4P
CN4303 *	1-564-506-11	PLUG, CONNECTOR 3P
CN4304 *	1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P
CN4305 *	1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D4301	8-719-921-86	DIODE MTZJ-13
D4302	8-719-921-86	DIODE MTZJ-13
D4303	8-719-404-49	DIODE MA111
D4304	8-719-404-49	DIODE MA111

<CONNECTOR>

DY4301 Δ 1-451-476-11 DEFLECTION YOKE



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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
<COIL>			
L4301	1-414-187-11	INDUCTOR 47 μ H	
L4302	1-414-183-41	INDUCTOR 10 μ H	
<TRANSISTOR>			
Q4301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4303	8-729-045-04	TRANSISTOR 2SC5511	
Q4304	8-729-045-05	TRANSISTOR 2SA2005	
Q4305	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4306	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4307	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4309	8-729-216-22	TRANSISTOR 2SA1162-G	
<RESISTOR>			
R4301	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4302	1-216-033-00	RES,CHIP 220 5% 1/10W	
R4303	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4304	1-216-475-11	METAL OXIDE 120 5% 3W	
R4305	1-216-001-00	RES,CHIP 10 5% 1/10W	
R4306	1-216-475-11	METAL OXIDE 120 5% 3W	
R4307	1-249-397-11	CARBON 22 5% 1/4W	
R4308	1-247-863-91	CARBON 22K 5% 1/4W	
R4309	1-249-414-11	CARBON 560 5% 1/4W	
R4310	1-249-415-11	CARBON 680 5% 1/4W	
R4311	1-249-414-11	CARBON 560 5% 1/4W	
R4312	1-247-863-91	CARBON 22K 5% 1/4W	
R4313	1-249-415-11	CARBON 680 5% 1/4W	
R4314	1-249-417-11	CARBON 1K 5% 1/4W	
R4315	1-249-384-11	CARBON 1.8 5% 1/4W	
R4316	1-249-384-11	CARBON 1.8 5% 1/4W	
R4317	1-249-399-11	CARBON 33 5% 1/4W	
R4318	1-249-399-11	CARBON 33 5% 1/4W	
R4319	1-216-476-11	METAL OXIDE 180 5% 3W	
R4321	1-208-806-11	RES,CHIP 10K 0.50% 1/10W	
R4322	1-208-800-11	RES,CHIP 5.6K 0.50% 1/10W	
R4323	1-208-794-91	RES,CHIP 3.3K 0.50% 1/10W	
R4324	1-208-806-11	RES,CHIP 10K 0.50% 1/10W	
R4325	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R4326	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4327	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4328	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R4329	1-216-049-91	RES,CHIP 1K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS *****			
Δ	1-223-925-51	RESISTOR ASSY (HIGH-VOLTAGE)	
22	1-505-914-11	SPEAKER (10CM)	
23	1-505-915-11	SPEAKER (13CM)	
24	1-505-916-11	SPEAKER (5.2CM)	
25	1-528-911-11	BATTERY, SOLAR	
73	1-505-917-11	SPEAKER (16CM)	
109	* A-1343-476-A	D BOARD, COMPLETE (VAR) (KP-61XBR200)	
112	1-783-595-11	CORD, NOISE FILTER WITH POWER	
113	* 1-556-945-21	CABLE, P-P	
114	* 1-557-056-31	CABLE, P-P	
115	1-251-321-12	SELECTOR, ANTENNA	
152	Δ 8-733-572-05	07MXC3(R)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
152	Δ 8-733-573-05	07MXC4(R)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
153	Δ 1-451-476-11	DEFLECTION YOKE	
155	Δ 1-452-790-21	NECK ASSY	
157	Δ 8-733-570-05	07MXC2(G)(DIAPHRAGM), PICTURE TUBE	
160	Δ 8-733-575-05	07MAC3(B)(DIAPHRAGM), PICTURE TUBE (KP-53XBR200)	
160	Δ 8-733-576-05	07MAC4(B)(DIAPHRAGM), PICTURE TUBE (KP-61XBR200)	
166	Δ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
ACCESSORIES AND PACKING MATERIALS *****			
	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)	
	3-864-093-11	MANUAL, INSTRUCTION	
	* 4-041-428-01	BAG, POLYETHYLENE	
	* 4-042-463-01	SHEET, PROTECTION	
	* 4-063-915-01	CUSHION (UPPER)(ASSY) (KP-61XBR200)	
	* 4-063-916-01	CUSHION (LOWER)(ASSY) (KP-61XBR200)	
	* 4-063-921-01	INDIVIDUAL CARTON (KP-61XBR200)	
	* 4-063-922-01	BOARD, BOTTOM (KP-61XBR200)	
	* 4-063-923-01	TRAY (KP-61XBR200)	
	* 4-063-924-01	CUSHION (UPPER)(ASSY) (KP-53XBR200)	
	* 4-063-925-01	CUSHION (LOWER)(ASSY) (KP-53XBR200)	
	* 4-063-930-01	INDIVIDUAL CARTON (KP-53XBR200)	
	* 4-063-931-01	BOARD, BOTTOM (KP-53XBR200)	
	* 4-063-932-01	TRAY (KP-53XBR200)	
	* 4-065-746-01	BOARD, TOP (KP-53XBR200)	
	* 4-065-747-01	BOARD, TOP (KP-61XBR200)	
REMOTE COMMANDER *****			
	1-475-898-11	REMOTE COMMANDER (RM-Y902)	
	9-933-736-01	COVER, BATTERY (FOR RM-Y902)	