

PRELIMINARY

Self Diagnosis
Supported model

SERVICE MANUAL

DX-1A CHASSIS

<i>MODEL</i>	<i>COMMANDER</i>	<i>DEST</i>	<i>CHASSIS NO.</i>
KV-32XBR400	RM-Y174	US	SCC-S47A-A
KV-32XBR400	RM-Y174	CND	SCC-S48A-A
KV-36XBR400	RM-Y174	US	SCC-S47B-A
KV-36XBR400	RM-Y174	CND	SCC-S48B-A
KV-38DRC1	RM-Y174	E	SCC-S49A-A
KV-38DRC1C	RM-Y174	E	SCC-S49B-A

SONY®

SPECIFICATIONS

	KV-32XBR400	KV-36XBR400	KV-38DRC1/ KV-38DRC1C
Power requirements	120V, 60 Hz	120V, 60 Hz	220V, 50/60Hz
Number of inputs/outputs			
Video ¹⁾		4	
S Video ²⁾		3	
Y,PB,PR ³⁾		2	
Audio ⁴⁾		5	
Audio Out ⁵⁾		2	
Monitor Out		1	
TV Out ^{1) 4)}		1	
Control-S (in/out)		YES	
Speaker output(W)		15W x 2	
Power Consumption(W)			
In use(Max)		245W	
In standby		2W	
Dimensions(W/H/D)			
(mm)	898 x 678 x 579.5	994 x 754.5 x 622	
(in)	35 ^{3/8} x 26 ^{3/4} x 27 ^{7/8}	39 ^{9/64} x 29 ^{45/64} x 24 ^{1/2}	
Mass			
(kg)	84kg	108kg	
(lbs)	185 lbs	238 lbs	

Television system

American TV standard/NTSC

Channel coverage

VHF:2-13/UHF:14-69/CATV:1-125

Visible screen size

FD Trinitron tube

Visible screen size

32" picture measured diagonally (KV-32XBR400)

36" picture measured diagonally (KV-36XBR400/38DRC1/38DRC1C)

Actual screen size

34" picture measured diagonally (KV-32XBR400)

38" picture measured diagonally (KV-36XBR400/38DRC1/38DRC1C)

Antenna

75 ohm external antenna terminal for VHF/UHF

Supplied accessories

Remote Commander RM-Y174

Two Size AA (R6) batteries

Optional accessories

Connecting cables: RK-74A, VMC-810S/820/830HGS, VMC-720M,

VMC-810S/820S, YC-15V/30V, YC-15/30HG, RKG69HG, RKC-515HG

U/V mixer: EAC-66

TV Stand: SU-32FD2, SU-36FD2, SU-32XBR2, SU-36XBR2

- 1) 1 Vp-p 75 ohms unbalanced, sync negative
- 2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
- 3) 500mVrms (100% modulation), impedance: 47kilohms
- 4) More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)
- 5) Y: 1.0 Vp-p, 75 ohms, sync negative;
PB: 0.7 Vp-p, 75 ohms;
PR: Vp-p, 75 ohms

Design and specifications are subject to change without notice.

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WARNINGS AND CAUTIONS

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

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 RESQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

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

SELF-DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

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

Results for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

Diagnostic Item/Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic Display/ Diagnostic result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		<ul style="list-style-type: none"> Power cord is not plugged in. Fuse is burned out. (F5501) 	<ul style="list-style-type: none"> Power does not come on. No power is supplied to the TV. AC power supply is faulty.
+B overcurrent (OCP) (see Note 1)	2 times	2:0 or 2:1	<ul style="list-style-type: none"> H.OUT (Q5030) is shorted. (D board) +B PWM (Q5003) is shorted. (D board) IC9001,9002, 9003 is shorted. (C board) 	<ul style="list-style-type: none"> Power does not come on. Load on power line is shorted.
+B overvoltage (OVP)	3 times	3:0 or 3:1	<ul style="list-style-type: none"> IC6505 is faulty. (D Board) 	<ul style="list-style-type: none"> Has entered standby mode.
Vertical deflection stopped	4 times	4:0 or 4:1	<ul style="list-style-type: none"> +/-15V is not supplied. (D board) IC 5004 is faulty. (D board) 	<ul style="list-style-type: none"> Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
White balance failure (not balanced)	5 times	5:0 or 5:1	<ul style="list-style-type: none"> Video OUT (IC9001-9003) is faulty. (C board) CRT Drive (IC201) is faulty. (A Board) G2 is improperly adjusted. (see Note 2) 	<ul style="list-style-type: none"> No raster is generated. CRT cathode current detection reference pulse output is small

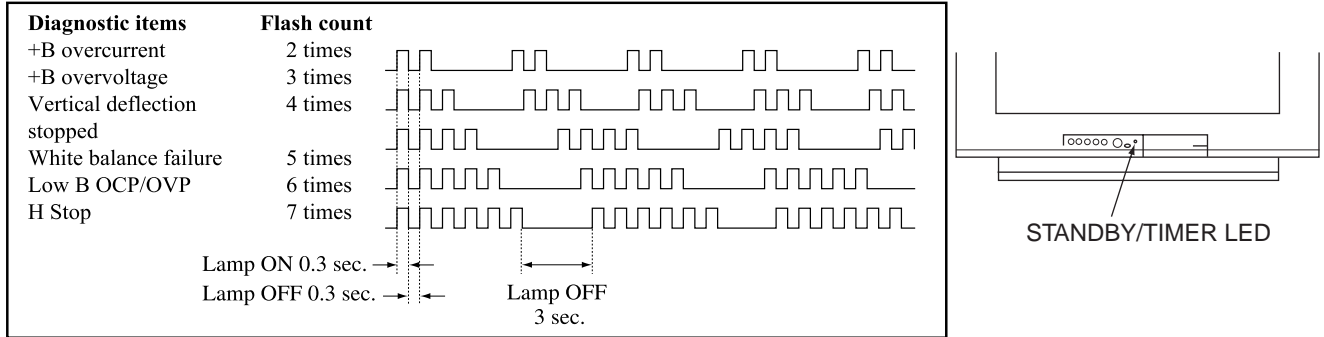
Diagnostic Item/Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic Display/ Diagnostic result	Probable Cause Location	Detected Symptoms
LOW B OCP/OVP (overcurrent/overvoltage) (see Note 3 below)	6 times	6:0 or 6:1	<ul style="list-style-type: none"> +5 line is overloaded. (A, B Boards) +5 line is shorted. (A, B Boards) IC6007 is faulty. (A Board) 	• No picture
H-Stop	7 times	7:0 or 7:1		• No picture

Note 1: If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on screen.

Note 2: Refer to Screen (G2) Adjustment in Section 3-4 of this manual.

Note 3: If standby lamp flashes 6 times, unplug unit and wait ten seconds before performing adjustment.

Display of Standby/Timer LED Flash Count



*One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

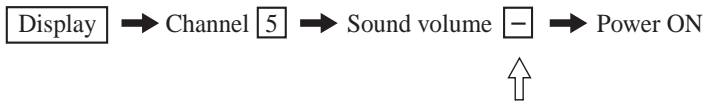
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

Self-Diagnostic Screen Display

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:



Note that this differs from entering the service mode (sound volume [+]).

Self-Diagnostic Screen Display

SELF DIAGNOSTIC	
2: +B OCP	0
3: +B OVP	0
4: V STOP	0
5: AKB	1
6: LOWB	0
7:H-STOP	0
101: WDT	0

Annotations:
 Numeral “0” means that no fault was detected.
 Numeral “1” means a fault was detected one time only.

Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

Clearing the Result Display

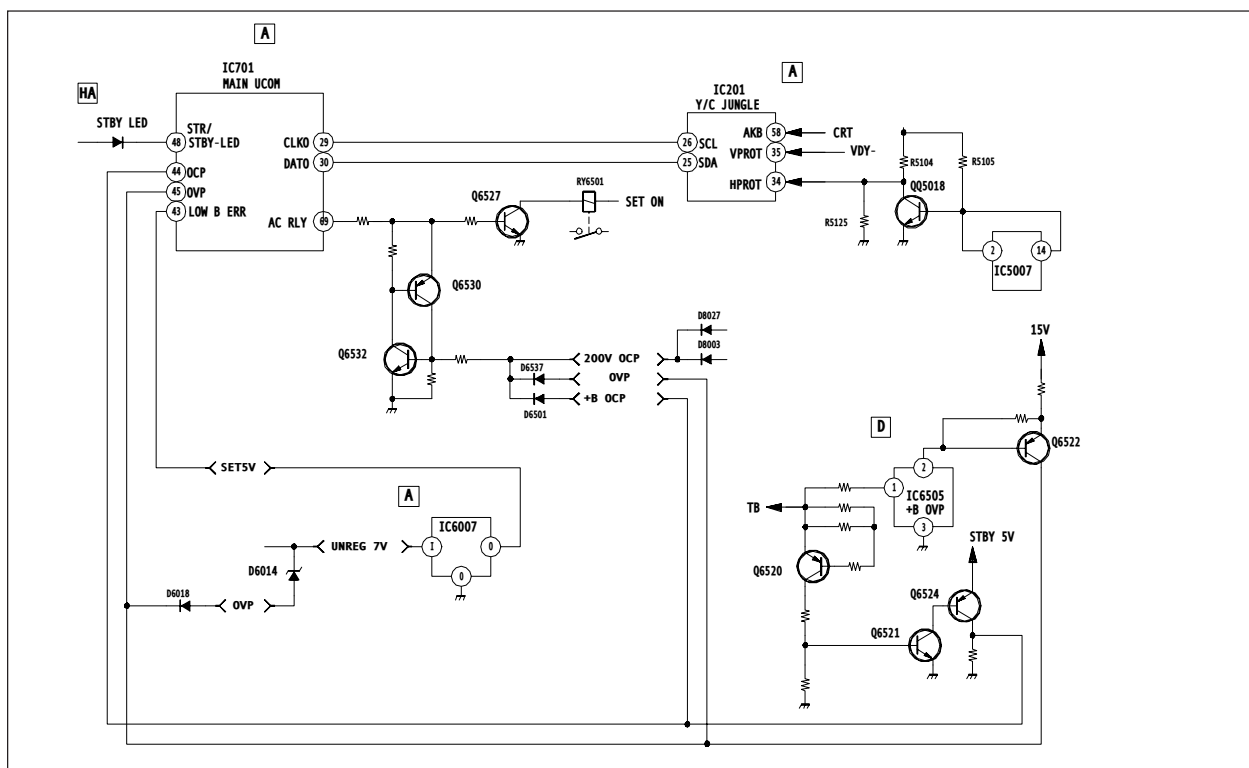
To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Channel **8** → **ENTER**

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B overcurrent (OCP)

Occurs when an overcurrent (more than 6A) on the +B (135V) line is detected by R6598/R6591. It will cause Q6520 to turn on and force the AC relay to turn off through Q6532 and Q6530.

+B overvoltage (OVP)

Occurs when one overvoltage (more than +140V) on the +B (135V) line is detected by IC6505 or an overvoltage (more than 0.5V) on the unregulator 7V line is detected by D6014. The AC Relay will turn off through Q6532 and Q6530.

Vertical Deflection Stopped

Occurs when an absence of the vertical deflection pulse is detected by IC1305. Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure

If the RGB levels do not balance within 2 seconds after the power is turned on, this error will be detected by IC3005. The unit will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B OCP/Error

Occurs when set 5V is out.

H-Stop

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as 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 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

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

How to Find a Good Earth Ground

A cold-water pipe is a 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- to 100-watt 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 on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

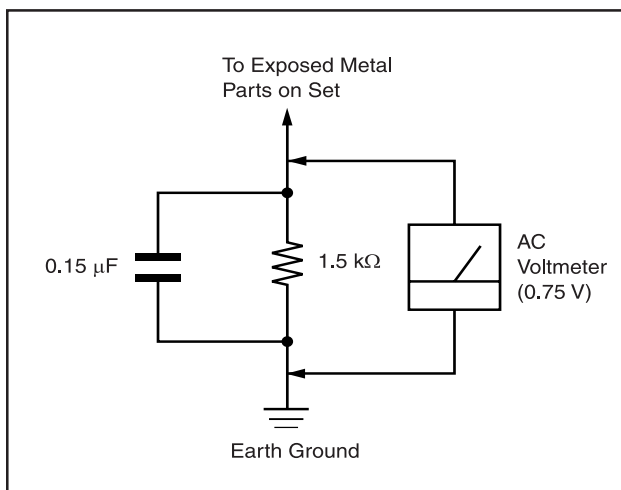


Figure A. Using an AC voltmeter to check AC leakage.

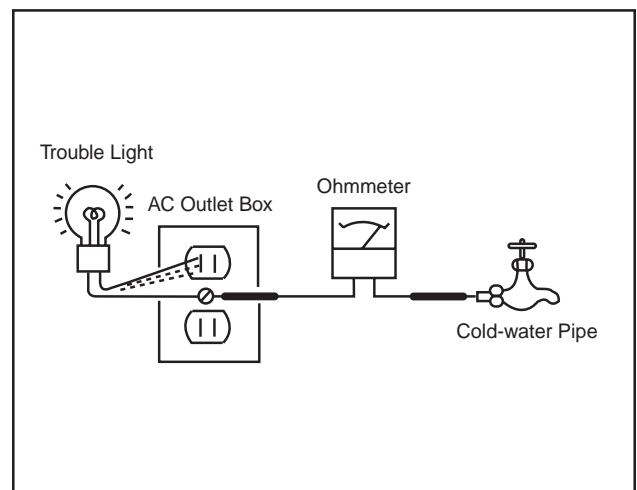


Figure B. Checking for earth ground.

SECTION 1 GENERAL

The instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

Introducing the FD Trinitron Wega

Using the Remote Control

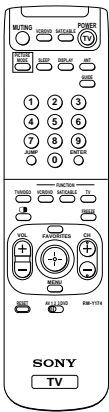
Inserting Batteries

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



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.

Remote Control Overview



Here's an overview of the buttons on the remote control you will probably use most often. For a complete description of the remote control, see "Using the Remote Control" on page 40.

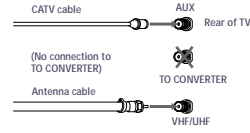
To Do This ...	Use This Button
Turn the TV on and off	TV (POWER)
Select channels directly	0 - 9 and ENTER Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
Scan through channels	CH +/- To scan rapidly through the channels, press and hold down the CH+ or CH- button.
Adjust the volume	VOL +/-
Switch video inputs (such as a VCR)	TV/VIDEO Press repeatedly to toggle through all video inputs.
Display the Menu to make changes to the TV	MENU For details, see "Using the Menus" on page 25.
View the Favorite Channels list	FAVORITES For details, see "Using Favorite Channels" on page 20.
Using the on-screen functions	Move Select

3

Installing the TV

Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

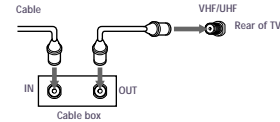
In order to receive channels with an antenna, you need to turn your Cable to OFF and perform the Auto Program function (see page 30).

Cable Box Connections

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

Cable Box

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- 2 Using a coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



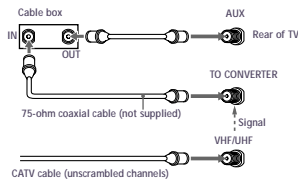
If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature (see page 30).

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Installing the TV

Cable Box and Cable

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



Your Sony remote control can be programmed to operate your cable box (see "Programming the Remote Control" on page 42).
When using Favorite Channel or Twin View, you cannot view the AUX input in the window picture.

Pressing ANT switches between these inputs.

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 the Channel Fix feature (see page 30).

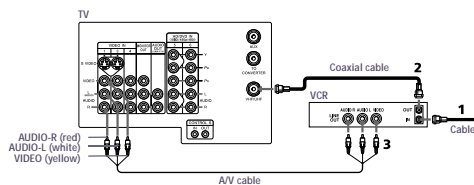
8

Installing the TV

Connecting a VCR and Cable

- 1 Connect the cable TV cable to the VCR's IN jack.
- 2 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF jack.
- 3 Using an A/V cable, connect the VCR's A/V OUT jacks to the TV's A/V IN jacks.

If your VCR has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the VCR's S VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.



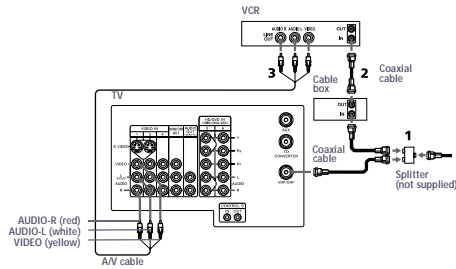
9

Installing the TV

Connecting a VCR and 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 TV.
- 2 Using a coaxial cable, connect the cable box's OUT jack to the VCR's VHF/UHF IN jack.
- 3 Using an A/V cable, connect the VCR's A/V OUT jacks to the TV's A/V IN jacks.

If your VCR has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the VCR's S VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.



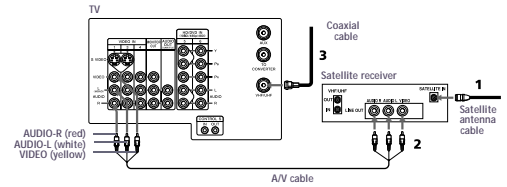
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Installing the TV

Connecting a Satellite Receiver

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using an A/V cable, connect the satellite receiver's A/V OUT jacks to the TV's A/V IN jacks.
- 3 Connect a coaxial cable from your cable or antenna to the TV's VHF/UHF IN jack.

If your satellite receiver has an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable. Using an S VIDEO cable, connect the satellite receiver's VIDEO OUT jack to the TV's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.

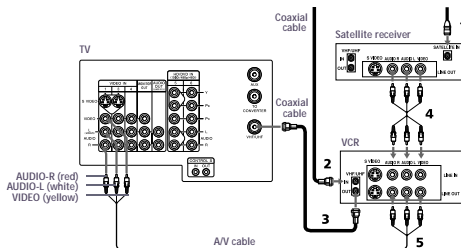


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Installing the TV

Connecting a Satellite Receiver with a VCR

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3 Using a coaxial cable, connect the VCR's OUT jack to the TV's VHF/UHF IN jack.
- 4 Using an A/V cable, connect the satellite receiver's A/V OUT jacks to the VCR's A/V IN jacks.
- 5 Using an A/V cable, connect the VCR's A/V OUT jacks to the TV's A/V IN jacks.

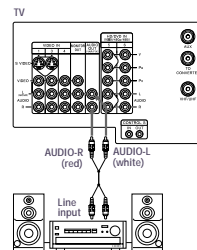


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Installing the TV

Connecting an Audio Receiver

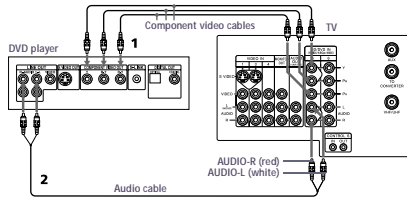
- 1 Using audio cables, connect the TV's AUDIO OUT jacks to the audio receiver's audio LINE IN jacks.



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Connecting a DVD Player with Component Video Connectors

- Using three separate component video cables, connect the DVD player's Y, Pb, and Pr jacks to the Y, Pb, and Pr jacks on the TV.
 - The Y, Pb, and Pr jacks on your DVD player are sometimes labeled Y, Cb, and Cr, or Y, B-Y, and R-Y. If so, connect the cables to like colors.
 - The Y, Pb, and Pr jacks do not provide audio, so audio cables must be connected to provide sound.
- Using an audio cable, connect the DVD player's audio OUT jacks to the TV's audio IN jacks.

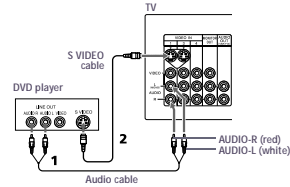


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Connecting a DVD Player with A/V Connectors

If your DVD player has video component output connectors: for best picture quality use the connection described on page 15.

- Using audio cables, connect the DVD player's audio OUT jacks to the TV's audio IN jacks.
- Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.

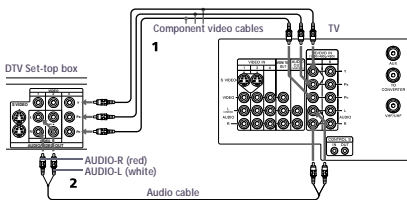


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Connecting a Digital TV Receiver

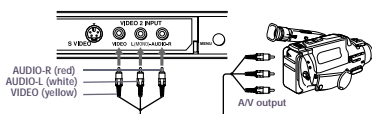
Be sure to read the manual for the Set-top box.

- Using three separate component video cables, connect the Digital TV Set-top box's Y, Pb, and Pr jacks to the TV.
 - The Y, Pb, and Pr jacks do not provide audio, so audio cables must be connected to provide sound.
 - Component input (Y, Pb, and Pr) is recommended for optimum picture quality. You may also use component video or S Video connectors.
- Using an audio cable, connect the DTV Set-top box's audio OUT jacks to the TV's audio IN jacks.



Connecting a Camcorder

- Using A/V cables, connect the camcorder's A/V OUT jacks to the TV's A/V IN jacks.
 - If you have a mono camcorder, connect its left audio output to the TV's AUDIO L jack.
 - For easy connection of the camcorder, the TV has front A/V inputs (shown below). However, if you prefer, you can also connect the camcorder to the TV's rear A/V IN jacks.

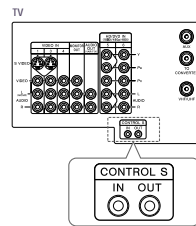


17

Using the CONTROL S Feature

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

To control your other Sony equipment with your TV's remote control, use a CONTROL S cable (not supplied) to connect the equipment's CONTROL S IN jack to the TV's CONTROL S OUT jack.



Setting Up the TV Automatically

After you finish connecting your TV, you need to run Auto Setup to set up your channels.

The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

- Press **POWER** to turn on the TV.
 - The first time you turn on the TV, the Auto Setup screen appears.
- Press **CH+** to run Auto Setup or press **CH-** to exit.
 - You can run Auto Program by selecting it in the Channel menu, as described on page 30.

18

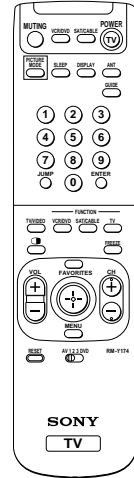
Other Information

Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

Main Power button must be turned ON to activate the Remote Control.

Button Descriptions

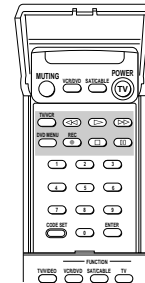


Button	Description
MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
VCR/DVD (POWER)	Turns the DVD player, MDP player, or VTR (VCR) on and off.
SAT/CABLE (POWER)	Turns the satellite receiver or cable box on and off.
TV (POWER)	Turns the TV on and off.
PICTURE MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Pro, Movie. Also available in the Video menu. For details, see "Selecting Video Options" on page 26.
SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears. While Sleep feature is set, press once to view remaining time.
DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 34 for details on setting the time.
ANT	Changes the VHF/UHF input to the AUX input.
GUIDE	Displays the program guide of your satellite antenna.
0 - 9 and ENTER	Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
TV/VIDEO	Cycles through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6.
VCR/DVD (FUNCTION)	Activates the remote control for use with a DVD player, MDP, or VTR (VCR).
SAT/CABLE (FUNCTION)	Activates the remote control for use with a satellite receiver or cable box.
TV (FUNCTION)	Activates the remote control for use with the TV.

Other Information

Button	Description
TV	Turns on/off Twin Mode. For details, see "Using Twin View" on page 21.
FREEZE	Freezes the window picture. Press again to restore the picture.
VOL +/-	Adjusts the volume.
FAVORITES	Displays the Favorite Channels list. For details, see "Using Favorite Channels" on page 20.
CH +/-	Scan through channels.
Joystick	Joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item.
MENU	Press to display the TV menu. Press again to exit from the menus.
RESET	Resets the TV to the factory default settings for the Video and Audio menus. (Clears setting on Channel and Timer)
AV123DV0	Use to switch control for connected video equipment. You can program one video source for each switch position (see page 42).

To scan rapidly through the channels, press and hold down the CH+ or CH- button.



Inside Panel	Description
TV/VCR	Changes the VHF/UHF output of the VCR.
◀	Rewind
▶	Play
▶▶	Fast-forward
DVD MENU	Displays the DVD menu.
REC	Record
■	Displays the DVD menu.
⏮ or ⏪	▶▶ or ◀◀ during playback (release to resume normal playback)
0 - 9 and ENTER	Press 0 - 9 to select a VCR channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
CODE SET	Used for programming the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 42.

Other Information

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	VTR1	303
8 mm VCR	VTR2	302
VHS VCR	VTR3	301
DVD Player	DVD/MDP	751

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedures to program the remote control.

The equipment must have infrared (IR) remote capability in order to be used with the remote control.

- Turn to "Programmable Codes" on page 43, and find the three-digit code number for your equipment. If more than one code number is listed, use the number listed first to complete the following procedure.

You must perform step 3 within 10 seconds of step 2, or you must start again from step 2.

- Press CODE SET.
- Move the slide switch to the desired input.
- Enter the three-digit code number.
- Press ENTER.

To check if the code number works, after step 5 aim the TV's remote control at the component and press the POWER button that corresponds with that component. If it responds, you're done. If not, try using the other codes listed for your component.

- 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, the code numbers may revert to the factory setting and must be reset.

Programmable Codes

Manufacturer	Code	Manufacturer	Code
VCRs		Memorex	309, 335
Minolta	305, 304	Wards	327, 328, 335, 331, 332
Sony	301	Mitsubishi/MGA	323, 324, 325, 326
Admiral (M. Ward)	327	Multitech	325, 338, 321
Aiwa	338, 344	NEC	314, 336, 337
Audio	314, 337	Olympic	309, 308
Dynamic		Optimus	327
Broksonic	319, 317	Panasonic	308, 309, 306, 307
Canon	309, 308	Pentax	305, 304
Citizen	332	Philco	308, 309
Craig	302, 332	Phillips	308, 309, 310
Criterion	315	Pioneer	308
Curtis Mathes	304, 338, 309	Quasar	308, 309, 306
Daewoo	341, 312, 309	RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
DBX	314, 336, 337	Realistic	309, 330, 328, 335, 324, 338
Dimensia	304	Sansui	314
Emerson	319, 320, 316, 317, 318, 341	Samsung	322, 313, 321
Fisher	330, 335	Sanyo	330, 335
Funai	338	Scott	312, 313, 321, 335, 323, 324, 325, 326
General	329, 304, 309	Sharp	327, 328
Electric		Shintom	315
Go Video	322, 339, 340	Signature 2000 (M. Ward)	338, 327
Goldstar	332	SV2000	338
Hitachi	306, 304, 305, 338	Sylvania	308, 309, 338, 310
Instant Replay	309, 308	Symphonic	338
JC Penney	309, 305, 304, 330, 314, 336, 337	Tashiro	332
JVC	314, 336, 337, 345, 346, 347	Tatung	314, 336, 337
Kenwood	314, 336, 332, 337	Teac	314, 336, 338, 337
LXI (Sears)	332, 305, 330, 335, 338	Technics	309, 308
Magnavox	308, 309, 310	Toshiba	312, 311
Marantz	314, 336, 337		
Marta	332		
		Yamaha	314, 330, 336, 337
		Zenith	331
		Laserdisc Players	
		Manufacturer Code	
		Panasonic	704, 710
		Pioneer	702
		DVD Players	
		Manufacturer Code	
		Sony	751
		Panasonic	753
		Pioneer	752
		RCA	755
		Toshiba	754
		Cable Boxes	
		Manufacturer Code	
		Hamlin/Regal	222, 223, 224, 225, 226
		Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
		Oak	227, 228, 229
		Panasonic	219, 220, 221
		Pioneer	214, 215
		Scientific	209, 210, 211
		Atlanta	
		Tocom	216, 217
		Zenith	212, 213
		Satellite Receivers	
		Manufacturer Code	
		Sony	801
		General	802
		Electric	
		Hitachi	805
		Hughes	804
		Panasonic	803
		RCA/PROSCAN	802, 808
		Toshiba	806, 807

Operating a VCR

To Do This ...	Press
Turn on/off	VTR/DVD (POWER)
Change channels	CH +/-
Record	▶ and REC simultaneously.
Play	▶
Stop	■
Fast forward	▶▶
Rewind the tape	◀◀
Pause	(press again to resume normal playback)
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Change input mode	TV/VCR

Operating an MDP (Laserdisc Player)

To Do This ...	Press
Turn on/off	VCR/DVD (POWER)
Play	▶
Stop	■
Pause	(press again to resume normal playback)
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Operating a Satellite Receiver

To Do This ...	Press
Turn on/off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display DBS guide	GUIDE
Display DBS menu	MENU
Move highlight (cursor)	Joystick or arrows
Select item	+ button

Operating a DVD Player

To Do This ...	Press
Turn on/off	VTR/DVD (POWER)
Play	▶
Stop	■
Pause	(press again to resume normal playback)
Step through different tracks of an audio disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Select tracks directly	0-9 buttons
Display the menu (Setup)	MENU

Operating a Cable Box

To Do This ...	Press
Turn on/off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Troubleshooting

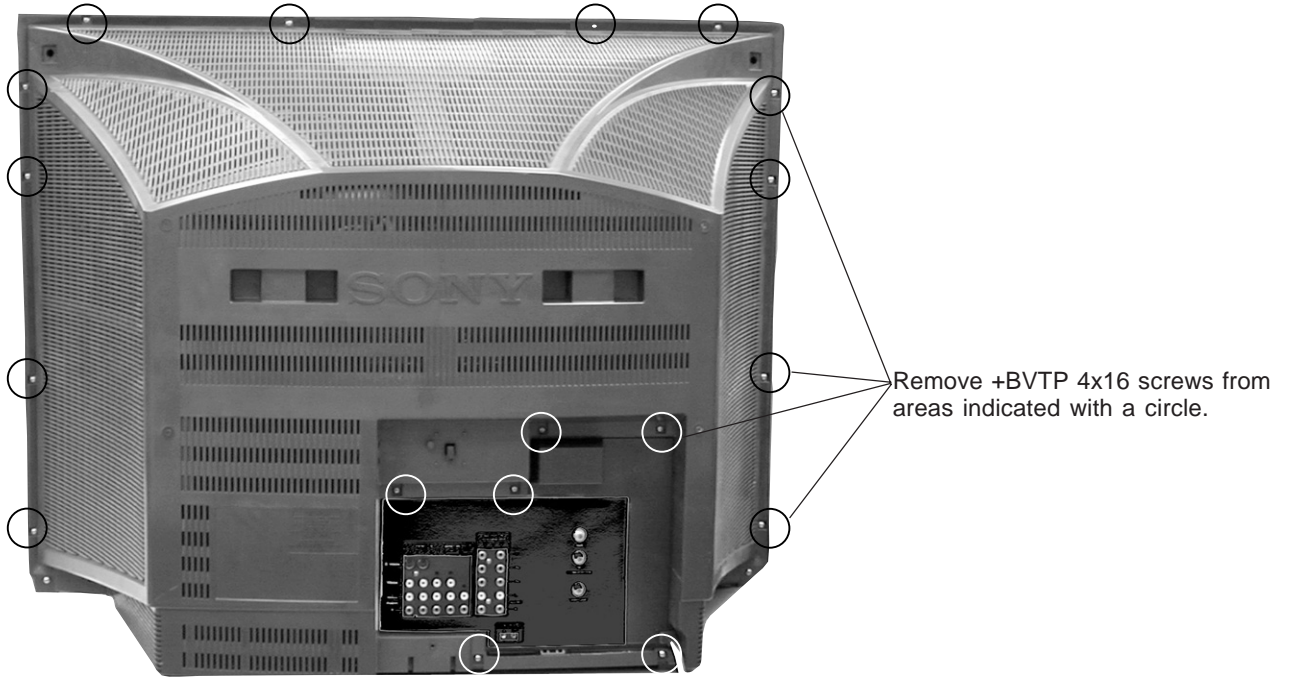
Problem	Possible Remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> <input type="checkbox"/> If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. <input type="checkbox"/> Make sure the power cord is plugged in. <input type="checkbox"/> Push the power button on the front of the TV. <input type="checkbox"/> Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. <input type="checkbox"/> Try another channel. It could be station trouble.
Remote control does not operate	<ul style="list-style-type: none"> <input type="checkbox"/> Batteries could be weak. Replace the batteries. <input type="checkbox"/> Press TV (FUNCTION) when operating your TV. <input type="checkbox"/> Make sure the TV's power cord is connected securely to the wall outlet. <input type="checkbox"/> Locate the TV at least 3-4 feet away from fluorescent lights. <input type="checkbox"/> Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Picture setting in the Video menu (see page 26). <input type="checkbox"/> Adjust the Brightness setting in the Video menu (see page 26). <input type="checkbox"/> Check antenna/cable connections.
Good picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Press MUTE so that "MUTING" disappears from the screen (see page 40). <input type="checkbox"/> Make sure Speaker is set to ON in the Audio menu (see page 28).
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> <input type="checkbox"/> Change Cable to Off (see page 30). <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30).
No color	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Color settings in the Video menu (see page 26).
Only snow and noise appear on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Check the antenna/cable connections. <input type="checkbox"/> Make sure the channel is broadcasting programs. <input type="checkbox"/> Press ANI to change the input mode (see page 40).
Dotted lines or stripes	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the TV away from noise sources such as cars, neon signs, or hair-dryers.
TV is fixed to one channel	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). <input type="checkbox"/> Check your Channel Fix settings (see page 30).
Double images or ghosts	<ul style="list-style-type: none"> <input type="checkbox"/> 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	<ul style="list-style-type: none"> <input type="checkbox"/> If the item you want to choose appears in gray, you cannot select it.
Cannot receive any channels when using cable TV	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30). <input type="checkbox"/> Check your cable settings. <input type="checkbox"/> Make sure Cable is set to ON in the Channel menu (see page 30).

Problem	Possible Remedies
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"> <input type="checkbox"/> Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the TV's volume.
Cannot receive channels	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Unable to select a channel	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 30).
Lost password	<ul style="list-style-type: none"> <input type="checkbox"/> In the password screen (see page 31), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.

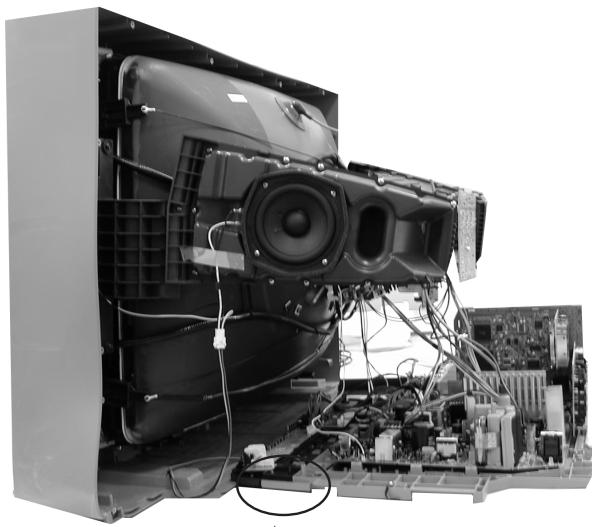
If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSEMBLY REMOVAL



Lift lever up on right and left sides of chassis bracket and pull chassis assembly gently away from bezel.

2-3. SERVICE POSITION

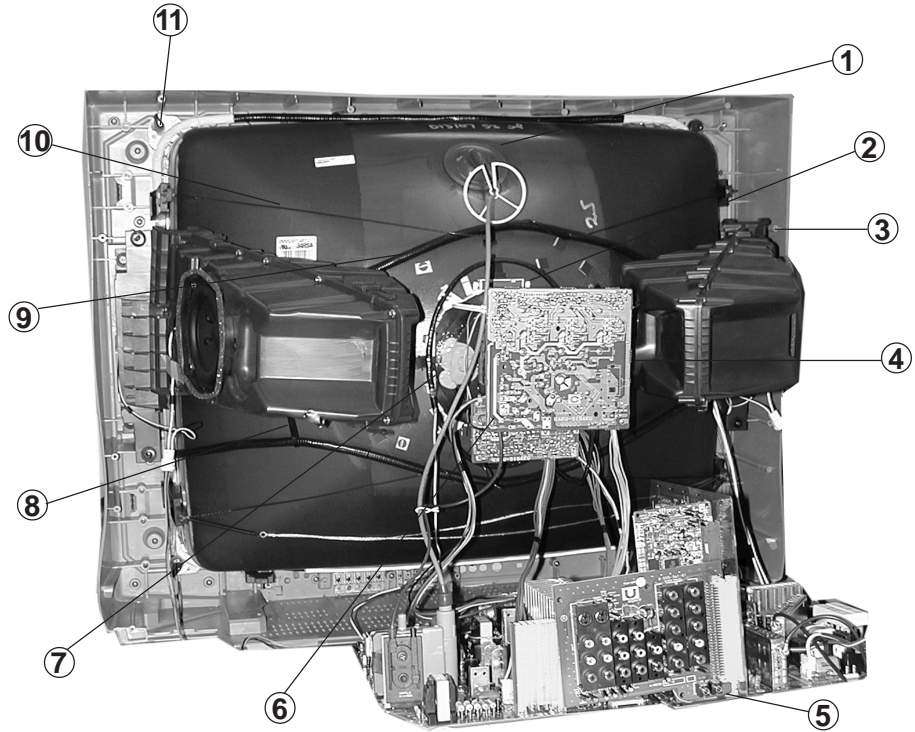
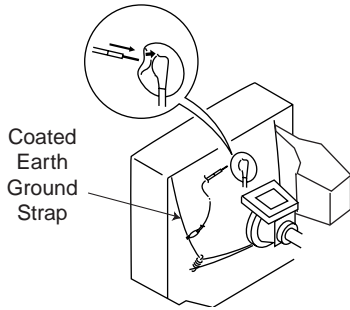


Pull up and rotate A and D Boards to service the set.

2-4. PICTURE TUBE REMOVAL

**WARNING:
BEFORE REMOVING
THE ANODE CAP**

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



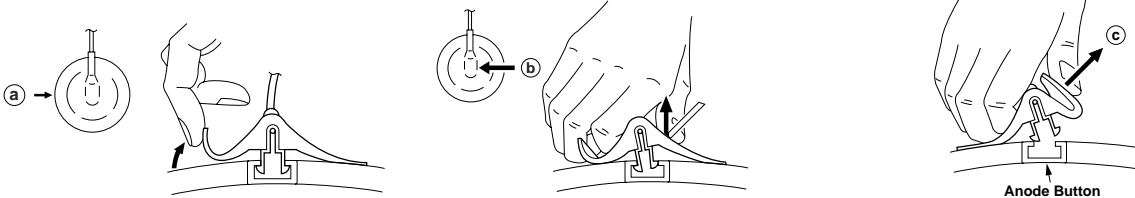
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove speaker assemblies.
4. Remove the C Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly fixing screw and remove.
7. Loosen the deflection yoke fixing screw and remove.
8. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
9. Remove the degaussing coils.
10. Remove the CRT grounding strap and spring tension devices.
11. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

ANODE CAP REMOVAL

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge the CRT *before* attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

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

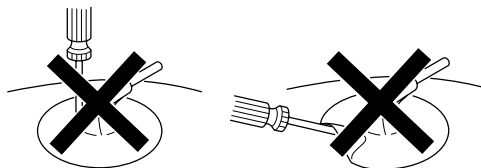
REMOVAL PROCEDURES



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

HOW TO HANDLE AN ANODE CAP

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



SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or when a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Set the controls as follows unless otherwise noted:

VIDEO MODE: STANDARD

PICTURE control: 100%

BRIGHTNESS control: 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)
5. White Balance

Note: Test equipment required:

- Color Bar Pattern Generator
- Degausser
- DC Power Supply
- Digital Multimeter

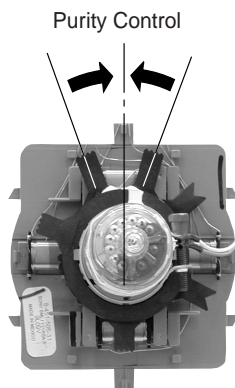
3-1. BEAM LANDING

Before beginning adjustment procedure:

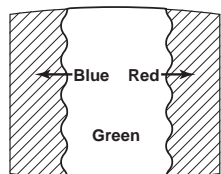
- Input a white pattern signal.
- Face the picture tube in East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use hand degausser because it magnetizes CRT.

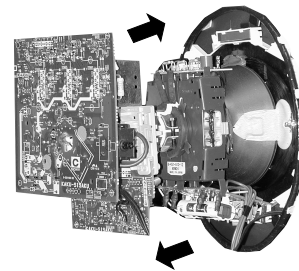
1. Input white pattern from pattern generator. Set the PICTURE control to maximum and BRIGHTNESS control to standard.
2. Perform Focus, G2 and White Balance adjustments.
3. Loosen the deflection yoke mounting screw and set the purity control to the center as shown below.



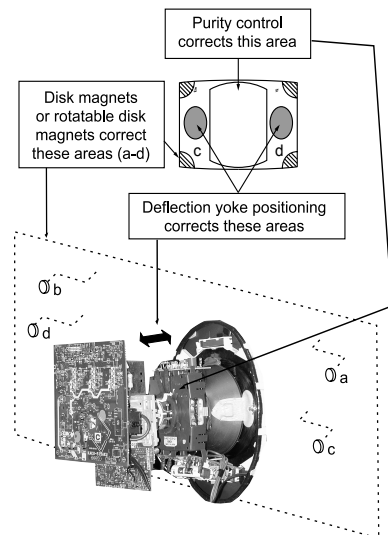
4. Input a green pattern from the pattern generator.
5. Move the deflection yoke backwards and adjust the purity control so that green is in the center and red and blue are even on both sides.



6. Move the deflection yoke forward and adjust so that the entire screen becomes green.



7. Switch over the raster signal to red and blue and confirm the condition.
8. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
9. If landing at the corner is not right, adjust by using the disk magnets.



3-2. V-PIN and V-CEN ADJUSTMENT

Before beginning adjustment procedure:

- Input a cross hatch pattern signal.
- Face the picture tube in North/South direction and correct rotation.

1. Set PICTURE control to 100% and BRIGHTNESS control to 50%.
2. Adjust service mode CXA2150D-1 04 VCEN so that top pin and bottom pin are symmetrical from top to bottom.
3. Adjust service mode CXA2150D-1 05 VPIN so top and bottom pin are symmetrical from top to bottom.
4. Lines should be straight from left to right. Check landing for side effect.

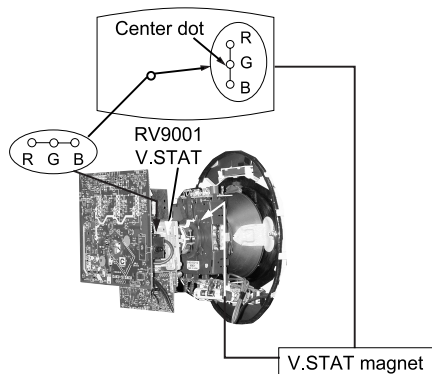
3-3. Convergence Adjustment

Before starting convergence adjustments:

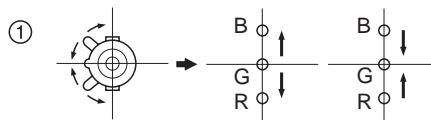
- Set CONTRAST AND BRIGHTNESS control to 50%.
- Input HD dot pattern.

Vertical and Horizontal Static Convergence

1. Disconnect dynamic convergence before adjusting static convergence (CN5510), except for minor touch-up.
2. Adjust H.STAT convergence, RV 9001, to converge red, green and blue dots in the center of the screen.
3. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen.
4. If horizontal convergence is not correct, adjust V.STAT magnet and RV9001 on C Board while tracking.



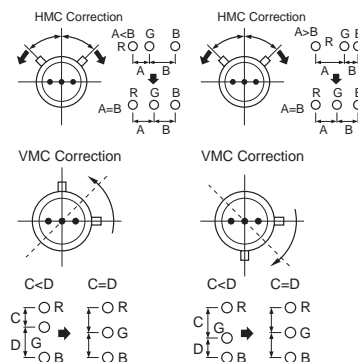
5. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



Operation of BMC (Hexapole) Magnet

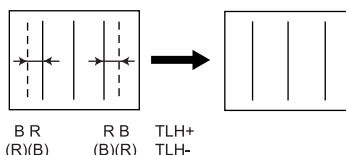
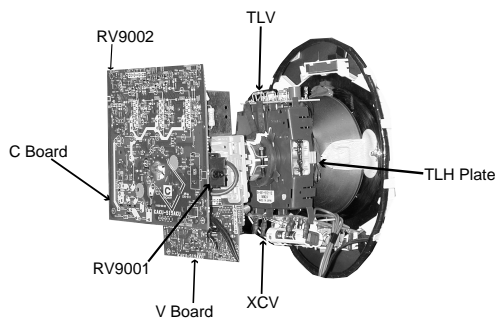
The respective dot positions resulting from moving each magnet interact, so perform the following adjustment while tracking.

Use the V.STAT tabs to adjust the red, green, and blue dots so they line up at the center of the screen (move the dots in a horizontal direction.)



TLH Plate Adjustment

- Input crosshatch pattern.
- Adjust PICTURE QUALITY to standard, PICTURE and BRIGHTNESS to 50%, and OTHER to standard.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting TLH plate on the deflection yoke.



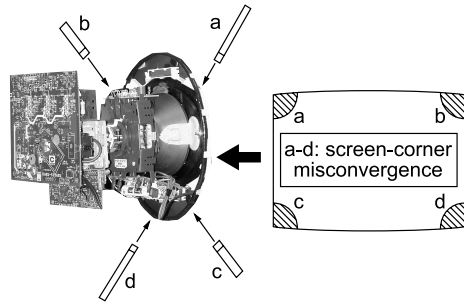
1. Adjust XCV core to balance X axis.
2. Adjust vertical red and blue convergence with V.TILT (TLV VR).

Note: Perform adjustments while tracking item 1.

Screen-Corner Convergence

- Input crosshatch pattern.

1. Affix a permalloy assembly corresponding to the misconverged areas.



Dynamic Convergence Adjustments

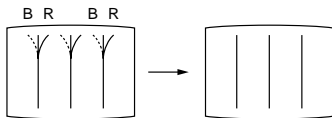
Set dynamic convergence using the following service mode adjustment data:

CXA 8070 AP

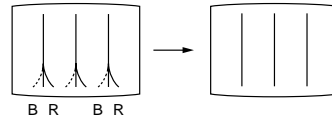
NO.	Register	Function	Data Length	Initial Data
0	SBHS	DC-AMP3	0-63	31
1	YBWU	VCA9	0-63	31
2	YBWL	VCA10	0-63	31
3	RSAP	DC-AMP1	0-63	31
4	RUBW	VCA5	0-63	31
5	RLBW	VCA6	0-63	31
6	LSAP	DC-AMP2	0-63	31
7	LUBW	VCA10	0-63	31
8	LLBW	VCA2	0-63	31
9	LADJ	CONV ADJ	0-63	48

0. SBHS (DC SHIFT) - Do not adjust.

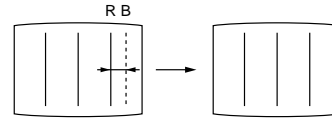
1. YBWU (UPPER Y-BOW)



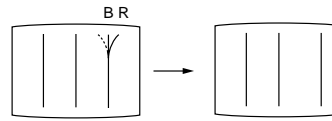
2. YBWL (BOTTOM BOW)



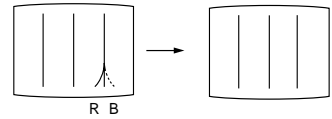
3. RSAP (RIGHT AMP)



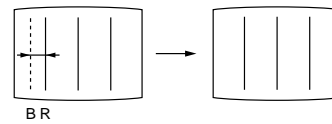
4. RUBW (RIGHT SIDE UPPER C-BOW)



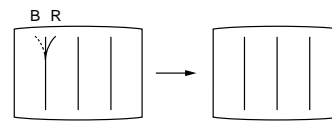
5. RLBW (RIGHT SIDE BOTTOM C-BOW)



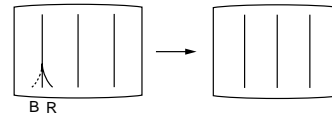
6. LSAP (LEFT AMP)



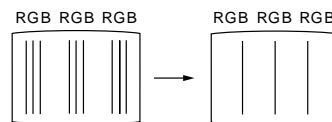
7. LUBW (LEFT SIDE UPPER C-BOW)



8. LLBW (LEFT SIDE BOTTOM C-BOW)

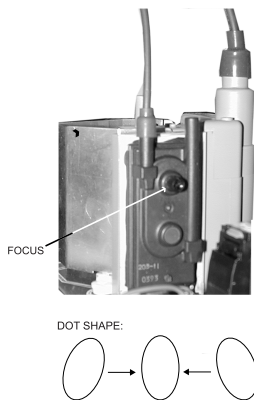


9. CADJ (DC OFFSET)



3-4. FOCUS ADJUSTMENT

1. Input a dot signal.
2. Set VIDEO mode to standard.
3. Adjust focus VR counter-clockwise to confirm the dot's shape is centered.
4. Input a HD monoscope signal.
5. Confirm center focus with focus VR.



3-5. SCREEN (G2)

1. Input a monoscope pattern. (NTSC)
2. Set to service mode and adjust as follows:

CXA 2150P-2			
No.	Disp.	Item	Avg.
00	ALBK	ALL_BLK	0

3. Adjust RV9002 on the C Board so that voltage on red, green and blue cathodes is 170.0 ±0.5V DC.
4. Adjust horizontal line at top of screen so it is cutoff.

Note: Never set ALBK to 1 when external power supply is connected to cathode.

3-6. PICTURE QUALITY ADJUSTMENT

Initial set-up condition

1. Set PRO MODE (Picture : MAX, GAMMA :0)
2. Dynamic-color: Off (=Trinitone: MID).
3. Set the service mode to the following:

C2150P-4			
No.	Name	Control Function	Avg. Data
06	UDCL	Dynamic Color: OFF	0
08	UGRAM	GRAMMA	0
15	DCTR	DC-TRAN	0
16	DPIC	DYNAMIC PIC:OFF	0

4. Input Signal (480i):

Color Bar Video 75 IRE (White) 75% modulation
7.5% Set-up

Color Bar RF 75 IRE (White) 75% modulation
7.5% Set-up

3-6-1. VIDEO INPUT -Two Picture Sub Contrast Adjustment

1. Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4			
No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2			
No.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4			
No.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1			
No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

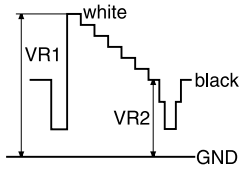
2103-2			
No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

4. Connect oscilloscope to Pin 1 of CN9001 (R. DRV) on C Board.
5. Adjust MAIN (left) side contrast according to service mode for SCON.

2103-1		
No.	Name	Control Function
02	SCON	SUB-CONT

6. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2		
No.	Name	Control Function
02	SCON	SUB-CONT



32": $VR1-VR2 = \Delta VR = 1.92 \pm 0.05$ Vp-p
 36"/ 38": $VR1-VR2 = \Delta VR = 2.0 \pm 0.05$ Vp-p

7. Write data from 5 and 6 above into memory.

3-6-2. VIDEO INPUT - Sub Hue/Sub Color Adjustment

1. Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

4. Connect oscilloscope to Pin 5 of CN9001 (B. DRV) on C Board.
5. Adjust MAIN (left) side color according to service mode for SCOL.
6. Adjust MAIN (left) side color according to service mode for SHUE.

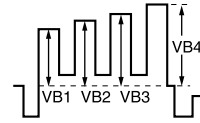
2103-1

No.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE

7. Adjust SUB (right) side color according to service mode for SCOL.
8. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

No.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE



COLOR: $VB1 \leq VB4 (=VB1 + 0 \sim 90mV)$

HUE: $VB2 \leq VB3 (=VB2 + 0 \sim 90mV)$

(HUE: Adjust data - 2 step)

9. Write data into memory.

3-6-3. RF INPUT Two Picture Sub Contrast Adjustment

1. Input a Color Bar signal to RF (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

No.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

No.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

Note: Use the same average data as 3-6-1 items 5 and 6 after the adjustment.

4. Connect oscilloscope to Pin 1 of CN9001 (R. DRV) on C Board.
5. Adjust MAIN (left) side contrast according to service mode for SCON.

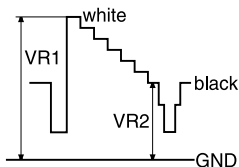
2103-1

No.	Name	Control Function
02	SCON	SUB CONT

6. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2

No.	Name	Control Function
02	SCON	SUB CONT



32": $VR1 - VR2 = \Delta VR = 1.92 \pm 0.05V_{p-p}$

36"/38": $VR1 - VR2 = \Delta VR = 2.0 \pm 0.05V_{p-p}$

7. Write data from 5 and 6 above into memory.

3-6-4. RF INPUT-Sub Hue/Sub Color Adjustment

1. Input a Color Bar signal to RF (75 IRE 75%).
2. Set picture mode: P&P (PRO MODE).
3. Set to service mode and adjust as follows:

2150P-4

No.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

No.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

INITIAL DATA (IMPORTANT)

2150P-4

No.	Name	Control Function	Avg. Data
24	CLOF	OFFSET for UCOL	8
25	HUOF	OFFSET for UHUE	4

2103-1

No.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB- OFFSET	31
21	CROF	CR-OFFSET	31

2103-2

No.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB- OFFSET	31
21	CROF	CR-OFFSET	31

Note: Use the same average data as 3-6-2 items 5,6,7,8 after the adjustment.

4. Connect oscilloscope to Pin 5 of CN9001 (B. DRV) on C Board.

5. Adjust MAIN (left) side color according to service mode for SCOL.

6. Adjust MAIN (left) side color according to service mode for SHUE.

2103-1

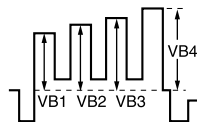
No.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

7. Adjust SUB (right) side color according to service mode for SCOL.

8. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

No.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR: $VB1 \leq VB4 (=VB1 + 0\sim 90mV)$

HUE: $VB2 \leq VB3 (=VB2 + 0\sim 90mV)$

(HUE: Adjust data - 2 step)

8. Write data into memory.

3.7 WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

White Balance

1. Input an all white 480I (15.734KHz) signal into the VIDEO 1 input terminal to perform the white balance (highlight, cut-off) adjustments. The parameters to adjust are in the CXA2150P in service mode.

2. Set the following:

Picture: Full Mode
Pro Mode
Color: Center

3. Adjust white balance in the service mode and set the following data:

2150P-1

No.	Name	Control Function	Avg. Data
05	RDRV	R-DRIVE	Fix: 41
06	GDRV	G-DRIVE	Adjust
07	BDRV	B-DRIVE	Adjust
08	RCUT	R-CUT OFF	Fix: 41
09	GCUT	G-CUT OFF	Adjust
10	BCUT	B-CUT-OFF	Adjust

4. Adjust sub-brightness: Input an all black signal (to IRE 7.5% set up) 480i (15.75KHz) signal into the VIDEO 1 input terminal and adjust the following parameter of the CXA2150P-1.

CXA2150P-1

No.	Name	Control Function	Avg. Data
04	SBRT	SUB-BRIGHT	Adjust

5. Check **INITIAL DATA (Important)**

2150P-1

No.	Name	Control Function	Avg. Data
00	SBOT	SUB-BRT OFFSET	7
12	SBOF	SUB-BRT OFFSET	63

6. Repeat steps 3 to 5.

3-8. RASTER CENTER ADJUSTMENT

1. Input a monoscope signal.
2. Set to NTSC (DRC) mode.
3. Enter service mode and set the following:

CXA2150P-2

No.	Name	Control Function	Avg. Data
06	AGNG	AGING1, AGING2	2

CXA2150D-2

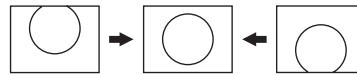
No.	Name	Control Function	Avg. Data
00	HBLK	Blanking enable	0
02	HSIZ	Horiz Size	31

4. Reduce HSIZ to see sides of raster.
5. Adjust H-Center with CXA2150D-2 00.
6. Adjust the best screen position with H-CENT and write data.
7. Restore aging, HSIZ and HBLK to original condition.

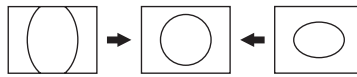
3-9. PICTURE DISTORTION ADJUSTMENTS

CXA2150D-1 and CXA2150D-2

0. VPOS (V-POSITION)



1. VSIZ (V-SIZE)



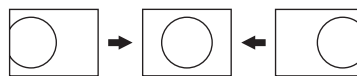
2. VLIN (V-LINE)



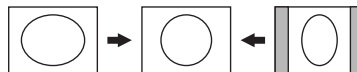
3. VSCO (VS-COR)



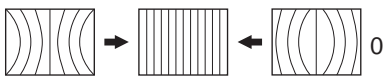
4. HCNT (H-CENTERING)



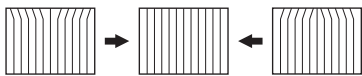
5. HSIZ (H-SIZE)



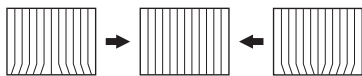
6. PIN (PIN AMP)



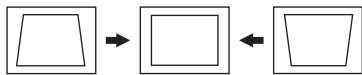
7. UCP (UP COR PIN COR)



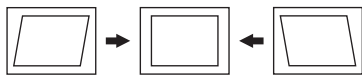
8. LCP (LOW CO PIN COR)



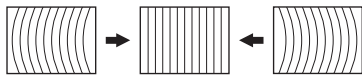
9. PPHA (PIN PHASE)



10. VANG (AFC-ANGLE)



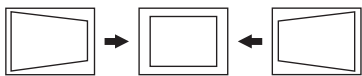
11. VBOW (AFC-BOW)



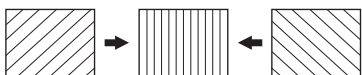
12. VPIN (V-PIN)



13. HTPZ (H-TRAPEZOID)



14. LANG (L-ANGLE)



15. LBOW (L-BOW)



3-10. NTSC (DRC) Full mode adjustment

1. Face picture tube to east or west direction.
2. Complete VPIN and VCEN adjustment first. (A2150-D1 05 VPIN, A2150-D1 04 VCEN)
3. Input a monoscope and a cross-hatch signal. Adjust picture distortion with the following service parameters to balance the best condition for these two signals.

A2150-D1	00	VPOS
A2150-D1	01	VSIZ
A2150-D1	02	VLIN
A2150-D1	03	VSCO
A2150-D1	04	VCEN
A2150-D1	05	VPIN
A2150-D1	07	HTPZ
A2150-D2	01	HPOS
A2150-D2	02	HSIZ
A2150-D2	03	SLIN
A2150-D2	05	PIN
A2150-D2	06	UCP
A2150-D2	07	LCP
A2150-D2	13	PPHA
A2150-D2	14	VANG
A2150-D2	15	LANG
A2150-D2	16	VBOW
A2150-D2	17	LBOW

Make sure picture size is within specs. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq.

4. Write data into memory then set screen to 1080i Mode.

1080i HD mode adjustment

1. Input a 1080i HD cross-hatch signal and an HD monoscope signal that contains overscan markers.
2. Adjust raster position per section 3-8 only if this procedure was not performed for full mode.
3. Adjust geometry similar to Full DRC mode. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq if monoscope signal is available. Otherwise use Vertical size as 91.5% scan, Horizontal size as 90% scan.
4. Use the following registers to adjust vertical and horizontal parameters:

A2150-D2	01	HPOS
A2150-D1	05	VPIN
A2150-D1	10	ASPT
A2150-D2	11	SCRL

If necessary, touch up geometry using the data registers listed above for Full mode.

5. Write data into memory.

Vertical Compressed Mode Adjustment

1. Input a monoscope and a cross-hatch signal.
2. Touch up geometry using the data registers listed above for Full mode, however no adjustment should be necessary. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq.
3. Check Full mode for any side effect for any adjustments to Vertical Compressed mode or 1080i HD mode.

SECTION 4 SAFETY RELATED ADJUSTMENTS

☒ RV8001, RV8002, RV8003 CONFIRMATION METHOD AND HV SERVICE ADJUSTMENTS

The following adjustments should always be performed when replacing the following components which are marked with ☒ on the schematic diagram:

D BOARD: DY, CRT, IC6503, IC8001, IC8003, IC8004, D8004, D8014, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095

B+ Max Confirmation: Standard: 135.3 ± 1 VCD

Check Condition: AC input voltage : $120 (\pm 2)$ VAC at Board Adjustment Process

$130 (\pm 2)$ VAC at QC

$120 (\pm 2)$ VAC at Overall Adjustment (After aging)

*Note: If using stabilized power supply, make sure the distortion factor is 3% or less.

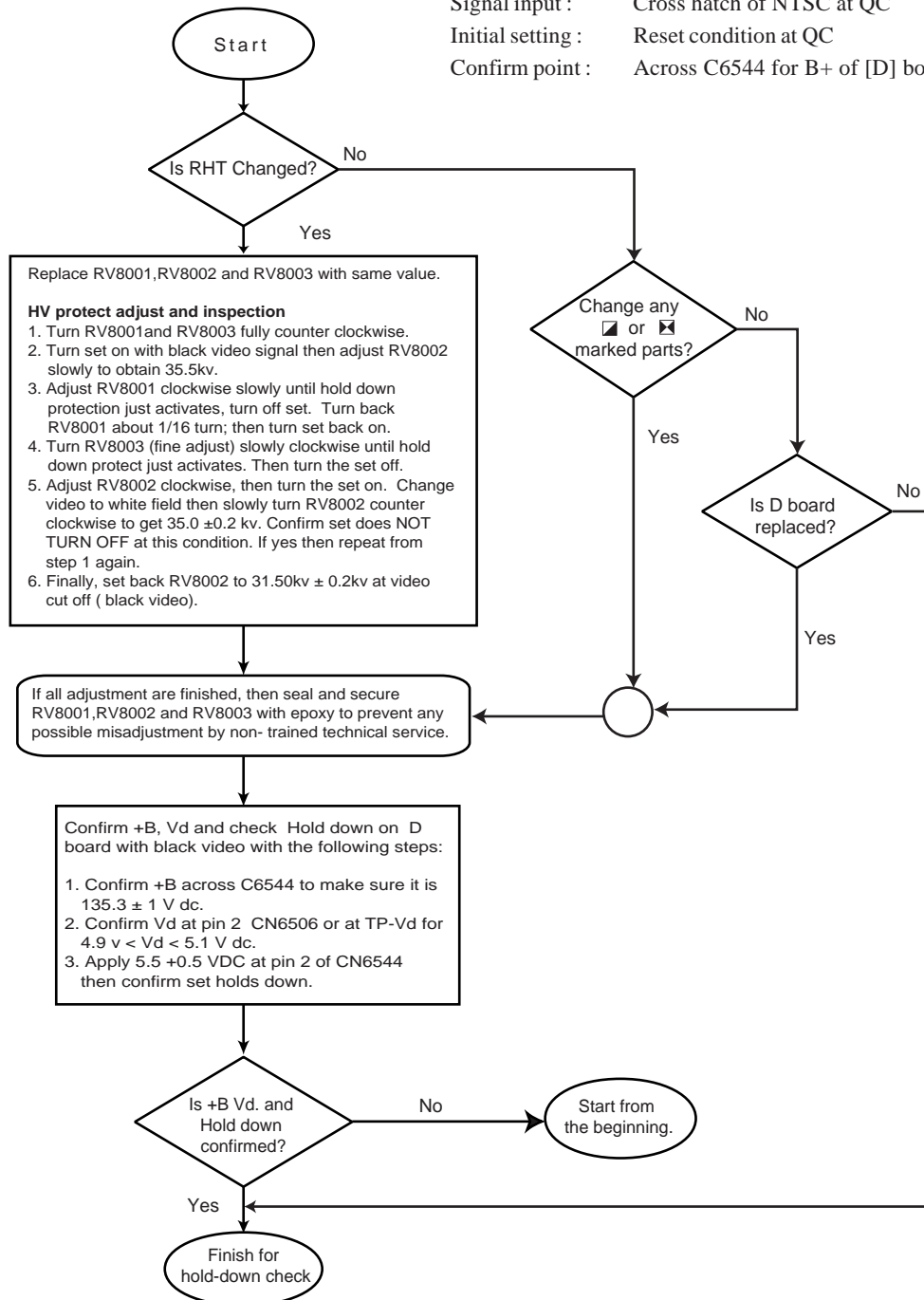
Setting Mode: Full mode

Signal input : Cross hatch of NTSC at QC

Initial setting : Reset condition at QC

Confirm point : Across C6544 for B+ of [D] board.

HV Service Flowchart



SECTION 5 CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y74) to perform the circuit adjustments in this section.

NOTE: Test Equipment Required:

- Pattern generator
- Frequency counter
- Digital multimeter
- Audio oscillator

5-1. SETTING THE SERVICE ADJUSTMENT MODE

1. Standby mode (power off).
2. **[Display]** → Channel **[5]** → Sound volume **[+]** → Power on Remote Commander (press each button within a second).

SERVICE ADJUSTMENT MODE VIEW

Register Item	Device Item	Data Item
	CXA2150P-1	0 +7 G
	0000000	33.75KHz/60Hz
VPOS		HDTV
338	338	

Reading the Memory

1. Enter into Service Mode
2. Press **[0]** on the remote commander.

Adjusting the Picture

1. Enter into Service Mode.
2. Press **[2]** or **[5]** on the Remote Commander to select the device item.
2. Press **[1]** or **[4]** on the Remote Commander to select an item.
3. Press **[3]** or **[6]** on the Remote Commander to change the data.
4. Press **[MUTING]** then **[ENTER]** to save into the memory.

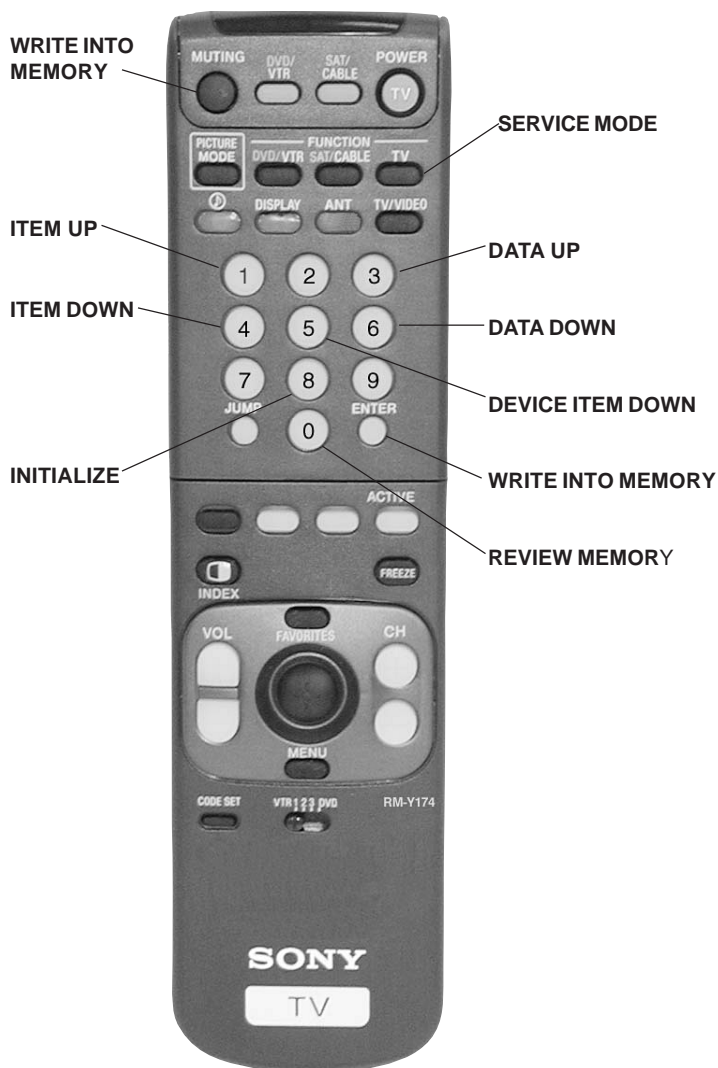
Resetting the Data

1. Enter into Service Mode.
2. Press **[7]** **[MUTING]** then press **[ENTER]** on the Remote Commander.

5-2. MEMORY WRITE CONFIRMATION METHOD

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

5-3. ADJUSTMENT BUTTONS AND INDICATORS



RM-Y174

5-4. SERVICE DATA LISTS

DX1A Service List ----- Contents			
Service Control Category Number & Name	Service Control Device Name	Service Control Device Reference Number	Service Control Device Slave Address & Microprocessor Version
# 1	3D-COMB	μPD64082	Slave Address: B8h (Write) & B9h (Read)
# 2-1	CXA2103-1 (Main)	CXA2103Q	Slave Address: 9Ah
# 2-2	CXA2103-2 (Sub)	IC3110 (Sub) / B-board	Slave Address: 9Eh
# 3-1	CXA2150P-1	CXA2150Q	Slave Address: 86h
# 3-2	CXA2150P-2		
# 3-3	CXA2150P-3		
# 3-4	CXA2150P-4		
# 4-1	CXA2150D-1	CXA2150Q	Slave Address: 86h
# 4-2	CXA2150D-2		
# 4-3	CXA2150D-3		
# 5	CXA2151	CXA2151Q	Slave Address: 84h
# 6	D-CONV	CXA8070P	Slave Address: DEh
# 7	CXA2026	CXA2026AS	Slave Address: 8Eh
# 8	AP	BH3868FS	Slave Address: 82h
# 9	TRUS	NJM2180M	Controlled through CXA1315M (IC4103 / S-board, Slave Address: 48h)
# 10	MID1	CXD9509AQ	Slave Address: 2Eh { Controlled through MID-X Micro (IC3090 / B-board / 64h) }
# 11	MID2	CXD9509AQ	Slave Address: 2Eh { Controlled through MID-X Micro (IC3090 / B-board / 64h) }
# 12	MID3	CXD9509AQ	Slave Address: 2Eh { Controlled through MID-X Micro (IC3090 / B-board / 64h) }
# 13	MID5	CXD9509AQ	Slave Address: 2Eh { Controlled through MID-X Micro (IC3090 / B-board / 64h) }
# 14	OSD	M306V2ME-150FP	System Micro (Version 1.0) with ROM correction (Patch A), Slave Address: 60h
# 15	SNNR	μPD64082	Slave Address: B8h (Write) & B9h (Read)
		CXA2103Q	Slave Address: 9Ah
		CXA2150Q	Slave Address: 86h
# 16	IDI	CXD2085M	Slave Address: 40h
# 17	CCD&VCHIP	IC3602 (Main) / B-board	CCD&Vchip Micro (Version 2.14), Slave Address: 68h (Main)
		IC3601 (Sub) / B-board	CCD&Vchip Micro (Version 2.14), Slave Address: 6Ch (Sub)
# 18	OP	M306V2ME-150FP	System Micro (Version 1.0) with ROM correction (Patch A), Slave Address: 60h
# 19	ID	M306V2ME-150FP	System Micro (Version 1.0) with ROM correction (Patch A), Slave Address: 60h
Note:			
M306V2ME-150FP (MASK), Software Version 1.0 (with ROM correction (Patch A)), IC701/A-board (Slave Address: 60h)			
DX1A System Micro & Software: MB94918RPF-G-128-BND (MASK1), Software Version 03/30/00, IC3090/B-board (Slave Address: 64h)			
DX1A MID-X Micro & Software: MB94918RPF-G-130-BND (MASK2), Software Version 04/20/00, IC3090/B-board (Slave Address: 64h)			
DX1A CCD&Vchip Micro Software: CXP85840A-039Q (MASK), Software Version 2.14, IC3602/B-board (Main/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address: 6Ch)			

DX1A SERVICE LIST (#1): 3D-COMB / μ PD64082 (Part 1)

Device Name: μ PD64082 { 3D-Comb Filter / NEC } / IC2004 (BC-board)
 Slave Address: B8h (Write Address) / B9h (Read Address)

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment															
				<table border="1"> <thead> <tr> <th colspan="2">UHF/VHF & CVideo</th> <th colspan="2">SVideo</th> </tr> <tr> <th>Standard</th> <th>Non-standard</th> <th>Standard</th> <th>Non-standard</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>3</td> <td>3</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> CVideo (CV): CVideo1~4 inputs SVideo (SV): SVideo1~3 inputs C: Common data	UHF/VHF & CVideo		SVideo		Standard	Non-standard	Standard	Non-standard	0	1	3	3	3			
UHF/VHF & CVideo		SVideo																		
Standard	Non-standard	Standard	Non-standard																	
0	1	3	3																	
3																				
0	NRMD		0~3	1																
1	YAPS	C	0~3	3																
2	CLKS	C	0~3	1																
3	NSDS		0~3	0																
4	MSS	C	0~3	0																
5	KILS	C	0~3	1																
6	CDL	C	0~7	3																
	NRMD Setting-based Control Table for DYCO, DYGA, DCCO, DCGA																			
7	DYCO		0~15	NRMD = 0																
8	DYGA		0~15	NRMD = 1																
9	DCCO		0~15	NRMD = 2																
10	DCGA		0~15	NRMD = 3																
11	YNRL	C	0~3	1																
12	CNRL	C	0~3	1																
	UHF/VHF																			
13	VTRH		0~3	1	Video1~4: CVideo1~4 & SVideo1~3 inputs Video5&6: YCbCr-480i/480p/1080i inputs															
14	VTRR		0~3	1																
15	LDSR		0~3	2																
	VAPG1 Data Based on MENU/VM Setting																			
16	VAPG		0~7	VM = Off																
17	VAPI		0~31	VM = Low																
	VM&SNR Setting-based Control Table for VAPG & VAPI																			
	VAPG = VAPG1 - VAPG2			VM = Mid																
	V-aperture compensation gain			VM = High																
	V-aperture compensation convergence point			VM = High																
	SNR Setting-based Control Table for YPFT & YHFG																			
18	YPFT		0~3	SNNR = 0																
19	YPFG		0~15	SNNR = 1																
				SNNR = 2																
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DX1A SERVICE LIST (#1): 3D-COMB / μ PD64082 (Part 2)										
Device Name: μ PD64082 { 3D-Comb Filter / NEC } / IC2004 (BC-board)										
Slave Address: B8h (Write Address) / B9h (Read Address)										
Register No. & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)			Comment			
	SNNR Setting-based Control Table for YHCO & YHCG			SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	(Not SNNR Offset Data)		
20	YHCO Y output high frequency component coring		0~3	1	1	1	1	YHCO&YHCG settings are sent directly to 3D-Comb device.		
21	YHCG Y output high frequency component coring gain		0, 1	0	0	0	0			
22	HSSL Hsync slice level	C	0~15	C: Common data						
23	VSSL Vsync slice level	C	0~15							
24	ADCL ADC clock delay	C	0~3							
	NRMD Setting-based Control Table for D2GA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3			
25	D2GA Moving detection gain		0~7	4	4	4	4			
26	KILR Killer detection reference	C	0~15							
27	OP1 Option1: Selection of comb filter & recursive noise reduction types	C	0, 1							
28	NR1 Noise reduction on/off		0, 1							
29	NR2 SNNR control on/off	C	0, 1							
30	WSL Noise level detection data		0~255	1 Byte Data from Read Register WSL						
31	HPLL H-PLL filter (Must be set to 1 when MN signal is input.)	C	0, 1							
32	BPLL Burst PLL filter	C	0, 1							
33	FSCF Burst extraction gain	C	0, 1							
34	PLLF PLL loop gain	C	0, 1							
				UHF/VHF	Video1~4	Video5&6	Video1~4: CVideo1~4 & SVideo1~3 inputs Video5&6: YCbCr-480i/480p/1080i inputs			
35	CC3N Selection of a line-comb filter C separation filter characteristic		0, 1	0	0	0				
36	HDP Fine adjustment of the system H-phase	C	0~7							
37	BGPP Internal burst gate start position { Gate Start Position from Hsync center = 0.25 x BGPP + 2 (ms) }	C	0~15							
38	BGPW Internal burst gate width { Gate Width = 0.25 x BGPW + 0.5 (ms) }	C	0~15							
39	TEST Test bit {0: Normal mode, 1: Test mode (forbidden setting)}	C	0, 1							
40	WSC Amount of noise detection coring	C	0~3							
				UHF/VHF & Video1~4	Video5&6	This setting is used for non-standard signals such as Play Station signals.				
41	LIND DRC-M line-doubling setting for non-standard signals	Micro	0~63	0	2					
42	PRGO (YPFG offset at GR on) --- Not used for DX1A	---	0~7	3	(Not used for DX1A)					

DX1A SERVICE LIST (#3-D): CXA2150P-1 {Picture Controls: P1}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)
 Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Adjusted Data] (32V&36V CRTs)										Comment		
				UHF VHF	CV	SV	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P	CV:	SV:	SVideo1~3		(): Settings at center	
0	SBOT			7	7	7	7	7	7	7	7	7	7	7		
1	YOF		0~(7)~15	0	0	0	0	0	0	0	0	0	0	0		
2	CBOF		0~(7)~15	31	31	31	33	30	31	31	13	13	13	13		
3	CR OF		0~(31)~63	31	31	31	42	36	31	31	23	23	23	23		
4	SBRT	Adj.	0~63	24 [Adj.]												
5	RDRV	C	0~63	41										Adj.: Adjusted data		
6	GDRV	Adj.	0~63	36 [Adj.]												
7	BDRV	Adj.	0~63	33 [Adj.]												
8	RCUT	C	0~63	41										C: Common data		
9	GCUT	Adj.	0~63	11 [Adj.]												
10	BCUT	Adj.	0~63	22 [Adj.]												
				Vivid		Standard		Movie		Pro						
11	WBSW		0, 1	0	0	0	(Neutral)	1	(Warm)	0	0	0	0			
12	SBOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
13	RDOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
14	GDOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
15	BDOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
16	RCOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
17	GCOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			
18	BCOF		0~(63)~127	63	63	63	63	63	63	63	63	63	63			

Note:

** : The color temperature offset data

DX1A SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}						
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)						
Slave Address: 86h						
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V&36V CRTs)	Comment	
0	ALBK PIC_ON: RGB output including AKB reference pulse on/off (Setting = 0 for power on reset) --- G2 adjustment register setting	C	0, 1	1		
1	RGBS R_ON/G_ON/B_ON: R/G/B outputs on/off (AKB reference pulse can not be turned on/off.) (0,1/0,1/0,1)	C	0~7	7		
2	BLKB BLK_BTM: RGB output bottom limit level (Black Limit) (AKB reference pulse DC-voltage)	C	0~3	3		
3	LIML PLIMIT_LEV: Threshold level for excessively high inputs (White Limit)	C	0~3	0		
4	PABL P_ABL: DC-level in RGB output detection for PEAK ABL	C	0~15	15		
5	SABL S_ABL: S_ABL_gain	C	0~3	0		
6	AGNG AGING_W/AGING_B: AGING_W/AGING_B modes on/off (Set luminance to 80/01IRE flat-field signal.)	C	0~3 (0,1/0,1)	0		
7	AKBO AKBOFF: Automatic/Manual-Cutoff setting	C	0, 1	0		
				UVHP & Video1~4	YCbCr 480i	YCbCr 1080i
8	SYPH SYNC_PHASE: Hsync delay with respect to Video (100%: H-period)		0~3	0	0	0
9	CLPH CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	3	3	3
10	CLGA CLP_GATE: Switch for the gated internal clamp pulse with Hsync input		0, 1	0	0	0
11	JAXS JAXIS: Color axis switch		0, 1	0		
12	BLKO BLKO: Blanking switch		0, 1	0		
Note:						
C: Common data						
Video1~4: CVideo1~4 & SVideo1~3						

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1)

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)
 Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V&36V CRTs)										Comment
				Picture Mode: Vivid										
				UHF VHF	CV	SV	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P				
0	SYSM SYSTEM: Signal bandwidth setting		0~3	1	1	1	1	1	1	1	2	2		
1	UVML VM_LEV: VM_OUT level	C	0~3	3										
2	VMMO System Micro pin#40		0, 1	0	0	0	0	0	0	0	0	0		
3	VMCR VM_COR: VM_OUT coring level		0~3	3	3	3	3	3	3	3	3	3		
4	VMLM VM_LMT: VM_OUT limit level		0~3	3	3	3	3	3	3	3	3	3		
5	VMF0 VM_F0: VM_f0		0~3	2	2	2	2	2	2	2	2	2		
6	VMDL VM_DLY: VM_OUT phase (defined by phase difference from R_OUT)		0~3	3	3	3	3	3	3	3	3	3		
7	SHOF Offset for USHP = SHOF x 4		0~3	2	2	2	2	2	2	2	2	2		
8	SHF0 SHP_F0: Sharpness circuit f0		0, 1	1	1	1	1	1	1	1	0	1		
9	PROV PRE/OVER: Y signal pre/over-shoot ratio		0~3	3	3	3	3	3	3	3	3	3		
10	FILV SHP_F1: Sharpness for higher f0 (4.2/5.6 MHz @ NORMAL mode)		0~3	0	3	3	3	3	3	3	3	3		
11	CDSP SHP_CD: Sharpness in part of high color saturation		0~3	3	3	3	3	3	3	3	3	3		
12	LTLV LTI_LEV: Luminance transient improvement (LTI)		0~3	3	3	3	3	3	3	3	3	3		
13	LTMD LTI_MODE: LTI mode setting		0~3	0	0	0	0	0	0	0	0	1		
14	CTLV CTI_LEV: Chrominance transient improvement (CTI)		0~3	0	0	0	0	0	0	0	2	0		
15	CTMD CTI_MODE: CTI mode setting		0~3	0	0	0	0	0	0	0	0	0		
16	UBOF Offset for UBRT (Picture clarity adjustment)		0~(7)~15	7	7	7	7	7	7	7	10	7		
17	UCOF Offset for UCOL = UCOF x 2 (Picture clarity adjustment)		0~3	3	3	3	3	3	3	3	0	3		
18	UHOF Offset for UHUE (Picture clarity adjustment)		0~3	0	0	0	0	0	0	0	0	0		
19	MIDE MID enhancement setting		0~15	3	3	3	7	7	11	11	---	---		

Note:

These settings continue to the next page.

CV: CVideo1~4
 SV: SVideo1~3

C: Common data

(): Settings at center

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1)

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) Slave Address: 86h

Device Name: CXD2085 { ID-1 Decoder / SONY } / IC3603 (B-board) Slave Address: 40h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V&36V CRTs)						Comment	
				Vivid		Standard		Movie	Pro		
0	UPIC PICTURE: Picture		0~63	32V	36V	32V	36V	32&36V		Settings for 36V CRTs are used for initial settings.	
1	UBRT BRIGHT: Brightness		0~63	63	42	46	31	31			
2	UCOL COLOR: Color		0~63	25	22	28	26	28			
3	UHUE HUE: Hue		0~63	34	38	33	33	31			
	SNNR Setting-related Controls for USHP			31	31	31	31	31			
4	USHP SHARPNESS: Sharpness		0~63								
5	UTMP Color Temperature (0: Warm, 1: Neutral, 2: Cool)		0~2	2	2	1	1	0		This setting continues to the next page.	
6	UDCL DCOL: Dynamic color setting		0~3	2	2	2	2	2			
	Picture Mode: Vivid / Standard / Movie			Picture Mode: Vivid / Standard / Movie							
7	AXIS COL_AXIS: Color matrix setting		0~3	UHF/VHF Video1~4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P			
	Picture Mode: Vivid			Picture Mode: Vivid							
8	UGAM GAMMA/GAMMA_L: RGB output GAMMA correction setting (B ₇₋₆)		0~7	UHF/VHF Video1~4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P			
9	GAMMA L: Slight GAMMA correction on/off (B ₀)		(0~3/0,1)	5	5	5	5	5			
	GAMMA/GAMMA_L (Av Pro user control) --- Void Data		0~7							These settings continue to the next page.	
10	UGAM Setting-related Controls for GSBO, GCOO, GHUO										
10	GSBO Offset for SBRT (8 types of GSBO data based on UGAM values)		0~3	UGAM = 7	UGAM = 6	UGAM = 5	UGAM = 4	UGAM = 3	UGAM = 2		UGAM = 1
11	GCOO Offset for UCOL		0~3	0	0	0	0	0	0		0
12	GHUO Offset for UHUE		0~3	0	0	0	0	0	0		0
	Picture Mode: Vivid			Picture Mode: Vivid							
13	UBLK Item # 15~18 pack FI data controls		0~7	UHF/VHF Video1~4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P		These settings continue to the next page. (): Settings at center	
14	ABLK (Av Pro user control) --- Void Data		0~7	7	7	7	7	7	7		
	UBLK Setting-related Controls for DCTR										
15	DC_TRAN: Y signal DC transmission (8 types of DCTR data based on UBLK values)		0~3	0 (Void data)							
16	DPIC DPIC_LEV: Y signal AUTO PEDESTAL level		0~3	3	3	3	3	3	2		
17	DSBO Offset for SBRT		0~(7)~15	2	2	2	2	2	1		
18	ABLM ABL_MODE: ABL mode		0~3	7	7	7	7	7	7		
				1	1	1	1	1	1		

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-2)																			
Register No & Name	Data Initial Settings (32Y&36V CRTs)				Data Initial Settings (32Y&36V CRTs)				Data Initial Settings (32Y&36V CRTs)										
#3 SNNR Setting (-Offset)	SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	#4 USHP (cont.)	0	1	3	4										
#7 AXIS (Cont.)	Picture Mode: Pro				Picture Mode: Movie				Picture Mode: Pro				Picture Mode: Movie						
	UHF/VHF Video1-4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P	U/V HF	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P	U/V HF	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P				
#8 UGAM (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	UHF/VHF Video1-4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P	2	2	2	2	2	2	2	2	2	2				
#10 GSBO (cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	UGAM = 0																		
#11 GCOO (cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	0																		
#12 GHUO (cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	0																		
#13 UBLK (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	UHF/VHF Video1-4	YCbCr 480i	YCbCr 480p	YCbCr 1080i	P&P	4	4	4	4	4	4	4	4	4	4				
#15 DC'TR (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	2																		
#16 DPIC (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	1																		
#17 DSBO (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	7																		
#18 ABLM (Cont.)	Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard				Picture Mode: Standard						
	1																		
										UBLK = 7	UBLK = 6	UBLK = 5	UBLK = 4	UBLK = 3	UBLK = 2	UBLK = 0			
										3	2	2	2	1	1	1			
										0	0	0	0	0	0	0			
										7	7	7	7	7	7	7			
										0	0	0	0	0	0	0			

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-3)

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V&36V CRTs)	Comment
19	ABL_TH: ABL correct detection Vth control		0~15	0	
				Full	Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) (): Settings at center
20	ABLC Control of CXA2026 {0Ch---DAC0} (*)		0~255	0	
21	EPOF Offset for UPIC = EPOF x (UPIC/63) (for power save) --- Void Data	---	0~31	66	
	ID-1 and P&P Modes			Vcomp1	
22	SPOF Offset for UPIC = SPOF x (UPIC/64) --- Data Not Used	---	0~31	66	
				Vcomp2	
23	SCON SUB_CONTRAST: SUB PICTURE		0~15	0	
24	CLOF Offset for UCOL		0~(7)~15	8	
25	HUOF Offset for UHUE		0~7~15	8	
	CXD2085 Service Controls			4	
26	IDSW Switch for activating the selection in #26 DATA	C	0, 1	0	
				Full	
27	DATA Selection of geometry-forced vertical compression modes	C	0~3	0	
				Vcomp1	
				Vcomp2	
				2	

Note:

DX1A SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)

Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Adjusted Data] (32V&36V CRTs)			Comment
				Full	Vcomp1	Vcomp2	
0	V_POS: Vertical position (V_DRV signal DC-bias)	Adj.	0~(31)~63	31 [26]			Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) Adj.: Adjusted data (): Settings at center VCEN-L(Low bit) VCEN-H(High bit) [Copy]: Copy the adjusted data for Full mode. [7or8]: NSCO can be set to 7 or 8. (If not enough, feedback/check with to the DY attachment process.)
1	V_SIZE: Vertical size (V_DRV signal gain)	Adj.	0~(31)~63	15 [19]			
2	V_LINEARITY: Vertical linearity (Gain for V_DRV signal secondary component)	Adj.	0~(7)~15	7 [9]			
3	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15	7 [8]			
4	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment VSAW0_DCH: VSAW0 waveform DC component (high 2-bits) VSAW0_DCL: VSAW0 waveform DC component (low 4-bits)	Adj.	0~(31)~63	31 [31]			
5	VSAW0_AMP: Vertical PIN adjustment VSAW0 waveform_SAW component amplitude	Adj.	0~(15)~31	15 [Coptly 1]			
6	VSAW1_DC: Rotation	Adj.	0~(7)~15	7 [7or8]			
7	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31	15 [15]			
8	ZOOM_SW: Zoom switch		0, 1	0	0		
9	ASP_SW: Aspect switch		0, 1	1	0		
10	V_ASPECT: Aspect ratio	Adj.	0~63	47	47		
11	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32		
12	UP_VLIN: Upper vertical linearity		0~15	0	0		
13	LO_VLIN: Lower vertical linearity		0~15	0	0		

Note:

DX1A SERVICE LIST (#4-2): CXA2150D-2 {Deflection Controls: D2}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)
 Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Adjusted Data] (32V&36V CRTs)			Comment
				Full	Vcomp1	Vcomp2	
0	HCNT HC_PARA_DC: Horizontal center	Adj.	0~(31)~63	31 [31]			Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) [Adj.]: Adjusted data [-6steps]: The adj. Vcomp2 data = the adj. Full data - 6 (): Settings at center setting
1	HPOS H_POSITION: Horizontal position	Adj.	0~(31)~63	31 [31]	31 [-6steps]		
2	HSIZ H_SIZE: Horizontal size	Adj.	0~(31)~63	45 [45]			
3	SLIN MP_PARA_DC: Horizontal S-correction	Adj.	0~15	7 [3]			
4	MPIN MP_PARA_AMP: Horizontal middle pin		0~15	9			
5	PIN PIN_AMP: Horizontal pin	Adj.	0~(31)~63	31 [35]			
6	UCP UP_CPIN: Upper corner pin	Adj.	0~(31)~63	31 [38]			
7	LCP LO_CPIN: Lower corner pin	Adj.	0~(31)~63	31 [42]			
8	UXCG UP_UCG: Upper extra corner pin gain		0~3	2			
9	LXCG LO_UCG: Lower extra corner pin gain		0~3	2			
10	UXCP UP_UCP: Upper extra corner pin position		0~3	2			
11	LXCP LO_UCP: Lower extra corner pin position		0~3	2			
12	XCPP UC_POL: Extra corner pin polarity		0, 1	0			
13	PPHA PIN_PHASE: Pin phase	Adj.	0~(31)~63	31 [15]			
14	VANG AFC_ANGLE: AFC angle	Adj.	0~(31)~63	31 [31]			
15	LANG HC_PARA_PHASE: Linearity angle	Adj.	0~(31)~63	31 [31]			
16	VBOW AFC_BOW: AFC bow	Adj.	0~(31)~63	31 [31]			
17	LBOW HC_PARA_AMP: Linearity bow	Adj.	0~(31)~63	31 [31]			
18	CPY1 Copy Function 1: (Set CPY1=1, then press MUTE + Enter.) Copy all CXA2150D-2 data for Full mode to Vcomp1&2 modes.	Micro	0, 1	0		For engineering design use only	

Note:

DX1A SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}

Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board)
 Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V&36V CRTs)			Comment
				Full	Vcomp1	Vcomp2	
0	HBLK HBLK_SW: Horizontal blanking switch		0, 1		1		Full: 480p/960i (4x3)
1	LBLK LEFT_BLK: Left blanking		0~63	45		50	Vcomp1: 480p/960i (16x9)
2	RBLK RIGHT_BLK: Right blanking		0~63	24		27	Vcomp2: 1080i (16x9)
3	VBLK VBLK_SW: Vertical blanking switch		0, 1	1			
4	TBLK UP_BLK: Top blanking		0~(7)~15	1	8	12	(): Settings at center
5	BBLK LO_BLK: Bottom blanking		0~(7)~15	0	13	13	
6	VCMP V_COMP: Vertical compensation		0~15	0	0	0	
7	HCMP H_COMP: Horizontal compensation		0~15	0		0	
8	ACMP AFC_COMP: AFC compensation		0~7	0		0	
9	PCMP PIN_COMP: Pin compensation		0~7	0		0	
10	AFCM AFC_MODE: AFC loop gain		0~3	3		2	
11	VFRQ V_FREQ: Vertical frequency		0~3		1		
12	VON V_ON: Vertical drive on		0, 1		1		
13	JUMP JMP_SW: Reference pulse jump switch		0, 1	0		1	
14	VDJP VDRV_SW: Vertical drive jump switch		0, 1	0	0	1	
15	VDST RST_SW: Vertical drive start switch		0, 1	0	0	1	
16	EWDC EW_DC: Pin DC level shift		0, 1	0		0	
17	AKBT AKBTIM: AKB timing		0~31	20	20	10	

Note:

DX1A SERVICE LIST (#5): CXA2151Q

Device Name: CXA2151Q { Component I/F & Sync Separation / SONY } / IC3001 (B-board)
 Slave Address: 84h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings (32V & 36V CRTs)	Comment
0	MTRX MAT_OUT: Selection of color matrix conversion types GAIN_SEL:	Micro	0~3	480i (15.75 KHz) 0	Video5&6: YCbCr: 480i/480p/1080i inputs Sub: 480i input from the sub-channel
1	GAIN Selection of output signals for SELYOUT, SELCBOUT, SELCROUT	C	0~3	480p (31.50 KHz) 0	Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9)
2	CBGN YGIN, CBGAIN, CRGAIN:	C	0~15	9	C: Common data
3	VTC The gain control of SELYOUT, SELCBOUT, & SELCROUT	C	0~3	1	
4	HWID V_TC: Setting of Vsync separation time constant H_WIDTH: Setting of the output pulsewidth of SELHOUT	C	0~3	1	
5	HSEP HSEP_SEL: Setting for the sync separation system		0, 1	Video5	
6	TEST TEST: Test mode selection (for device tests)	C	0, 1	Video6	
7	FRGB The forced RGB selection (for tests) {0: MAT_OUT = MTRX (#0), 1: MAT_OUT = MTRX (#3)}	C	0, 1	0	
8	HMSK Hsync masking in vertical retrace		0, 1	Full	
				Vcomp1	
				Vcomp2	
				0	

DX1A SERVICE LIST (#6): D-CONV / CXA8070

Device Name: CXA8070P { DY-Convergence Control / SONY } / IC5513 (D-board)
 Slave Address: DEh

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Adjusted Data] (32V & 36V CRTs)	Comment
0	SBHS DC AMP3: DC shift	Adj.	0~63	Full	Full: 480p/960i (4x3) display mode
1	YBWU VCA9: Upper Y-bow	Adj.	0~63	Vcomp1	Vcomp1: 480p/960i (16x9) display mode
2	YBWL VCA10: Lower Y-bow	Adj.	0~63	Vcomp2	Vcomp2: 1080i (16x9) display mode
3	RSAP DC AMP2: Right H-AMP	Adj.	0~63	31 [31]	Adj.: Adjusted data
4	RUBW VCA5: Right upper bow	Adj.	0~63	31 [31]	
5	RLBW VCA6: Right lower bow	Adj.	0~63	31 [31]	
6	LSAP DC AMP1: Left H-AMP	Adj.	0~63	31 [31]	
7	LUBW VCA1: Left upper bow	Adj.	0~63	31 [31]	
8	LLBW VCA2: Left lower bow	Adj.	0~63	31 [31]	
9	CADJ DC AMP4: Offset adjustment (ADJ)	Adj.	0~63	31 [48]	
10	CPY2 Copy Function 2: (Set CPY2=1, then press MUTE + Enter.) Copy all CXA8070 data for Full mode to Vcomp1&2_modes.	Micro	0, 1	0	For engineering design use only

Note:

DX1A SERVICE LIST (#7): CXA2026AS							
Device Name: CXA2026AS { DQP Control / SONY } / IC5511 (D-board)							
Slave Address: 8Eh							
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Adjusted Data] (32V&36V CRTs)			Comment
				Full	Vcomp1		Vcomp2
				32V	32V	36V	36V
0	DFON: SW0: DF on/off switch	C	0, 1		0		
1	DQP: PWM: DQP phase	Adj.	0~63	29	[20]		Full: 480p/960i (4x3) display mode Vcomp1: 480p/960i (16x9) display mode Vcomp2: 1080i (16x9) display mode C: Common data Adj.: Adjusted data
2	DF: DAC1: DF phase	Adj.	0~63	34	[24]		
3	DQPD: H.AMP: DQP dc-level	Adj.	0~63	34	[34]		
4	QPDV: U.CBOW, L.CBOW: DQP dc-level vertical modulation		0~63	51	47		U.CBOW = QPDV + DVS L.CBOW = QPDV - DVS (): Settings at center
5	DVS: U.CBOW, L.CBOW: DQP dc-level tilt		0~(3)~7	0	0		
6	QPDY: U.MBHL, MBH: DQP dc-level at top & bottom areas		0~63	7	7		
7	DQPA: DC SHIFT: DQP amplitude	Adj.	0~63	22	17	22	17
				[22]	[17]	[22]	[17]
8	QPAV: U.YBOW, LYBOW: DQP amplitude vertical modulation		0~63	38	34		Settings for 36V are used as initial settings. U.YBOW = QPAV + AVS L.YBOW = QPAV - AVS
9	AVS: U.YBOW, LYBOW: DQP amplitude tilt		0~7	3	3		
10	NORM: SW1:		0, 1	0	0		
11	CPY3: Copy Function 3: (Set CPY3=1, then press MUTE + Enter.) Copy all CXA8070 data for Full mode to Vcomp1&2 modes.	Micro	0, 1		0		
12	200V: H.DUTY, H.TILT: 200V regulator adjustment	Adj.	0~63		31		[31]

Note:

DX1A SERVICE LIST (#8): Audio Processing (AP) / BH3868FS					
Device Name: BH3868FS { Audio Processor / ROHM } / IC7001 (A-board)					
Slave Address: 82h					
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0	SVOL	Volume: Offset for Volume	0~3	0	
1	SBAL	Balance: Offset for Balance	0~(3)~7	7	
2	SBAS	Bass: Offset for Bass	0~(3)~7	7	
3	STRE	Treble: Offset for Treble	0~(3)~7	7	
4	BBLP	BBE lowpass filter	0~15	0	
5	BBHP	BBE highpass filter	0~15	2	
6	SREF	Surround effect	0~7	11	
7	AGC	Auto gain control	0, 1	0	
8	BBE	BBE on/off	0, 1	1	
Note:					

(): Settings at center

DX1A SERVICE LIST (#9): TruSurround (TRUS) / NJM2180					
Device Name: NJM2180M { TruSurround 3D-Audio Processor / JRC } / IC4101 (S-board)					
Device Control: Controlled through CXA1315M (Audio Control D/A, IC4103/S-board, Slave Address: 48h)					
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0	TS	TruSurround effect selection	0~3	2	
1	DMY1	Dummy data (No functions)	C 0~255	0	
Note:					

C: Common data
DMY1 is used to fulfil the minimum requirement of 2 control items in each service control category.

DX1A SERVICE LIST (#10): MIDI (Common Data)					
Device Name: CXD9509AQ { MID-X / Fujitsu & SONY } / IC3408 (B-board)					
Slave Address: 2Eh { Controlled through MID-X Micro (IC3090/B-board, Slave Address: 64h) }					
MID-X Micro (MASK-1): MB94918RPF-G-128-BND (Fujitsu Code: 128), MID-X Software: Version 03/30/00 (Used in the first month DX1A production only.)					
MID-X Micro (MASK-2): MB94918RPF-G-130-BND (Fujitsu Code: 130), MID-X Software: Version 04/20/00					
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0	DHPH	C	0~255	MID Mode: All (Single & P&P & Favorite) 91	C: Common data
1	DVPH	C	0~63	20	
2	DHAR	C	0~255	240	
3	DVAR	C	0~255	135	
4	DHPW	C	0~63	27	
5	DVPW	C	0~7	7	
6	DYCD	C	0~63	2	
7	DYSD	C	0~7	1	
				MID Mode: Single & Favorite	
				Single 480i&sp 1080i	
				Favorite	
8	MDHP		0~255	33	13
9	MDVP		0~255	32	8
10	MDHS		0~255	230	150
11	MDVS		0~255	120	135
				MID Mode: P&P & Favorite	
12	MLHP		0~255	54	
13	MLVP		0~255	31	
				MID Mode: Favorite	
14	SDHP		0~255	173	
15	SDVP		0~255	12	
16	SDHS		0~255	61	
17	SDVS		0~255	42	
				MID Mode: All (Single & P&P & Favorite)	
18	DPSW	C	0, 1	1	
19	MDL0	C	0, 1	0	
Note:					

DX1A SERVICE LIST (#11): MID2 (DRC-in Data)									
Device Name: CXD9509AQ { MID-X / Fujitsu & SONY } / IC3408 (B-board)									
Slave Address: 2Eh { Controlled through MID-X Micro (IC3090/B-board, Slave Address: 64h) }									
MID-X Micro (MASK-1): MB94918RPF-G-128-BND (Fujitsu Code: 128), MID-X Software: Version 03/30/00 (Used in the first month DX1A production only.)									
MID-X Micro (MASK-2): MB94918RPF-G-130-BND (Fujitsu Code: 130), MID-X Software: Version 04/20/00									
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)					
				MID Mode: Single		MID Mode: F&P & Favorite		MID Mode: Freeze	
				YC 480i	YCbCr 480i	YC 480i	YCbCr 480i	YC 480i	YCbCr 480i
0	DRHP	Horizontal position of the active display area (DRC-in)	0~255	120	116	131	129	137	136
1	DRHS	Hsize of the active display area (DRC-in)	0~255	174	174	167	167	168	165
2	DRVP	Vposition of the active display area (DRC-in)	0~63	38	38	53	53	53	53
3	DRVS	Vertical size of the active display area (DRC-in)	0~255	120	120	112	112	112	112
Note:									

DX1A SERVICE LIST (#12): MID-3 (VDO-in Data) (Part-1)					
Device Name: CXD9509AQ { MID-X / Fujitsu & SONY } / IC3408 (B-board)					
Slave Address: 2Eh { Controlled through MID-X Micro (IC3090/B-board, Slave Address: 64h) }					
MID-X Micro (MASK-1): MB94918RPF-G-128-BND (Fujitsu Code: 128), MID-X Software: Version 03/30/00 (Used in the first month DX1A production only.)					
MID-X Micro (MASK-2): MB94918RPF-G-130-BND (Fujitsu Code: 130), MID-X Software: Version 04/20/00					
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0	VDHP		0~255	MID Mode: Single YCbCr 480P 118 Dummy 480i 179	Dummy-480i settings are used for No Signal cases. These settings continue to the next page.
1	VDHS		0~255	159 199	
2	VDVE		0~63	39 24	
3	VDVS		0~255	129 56 YCbCr 1080i YCbCr 480P YCbCr 1080i YCbCr 480i	
4	VDVO		0~3	0 0	
5	VCPO		0~255	95 70 40 90	
6	VCWD		0~7	3 3 3 3	
7	VYCD		0~63	0 0 0 0	
8	VSTP		0~255	YCbCr 480P 119 160	
9	VSTT		0~15	7 0 MID Mode: All (Single & P&F & Favorite)	
10	VHSC		0~255	130	

DX1A SERVICE LIST (#12): MID-3 (VDO-in Data) (Part-2)					
Register No & Name	Data Initial Setting (32V&36V CRTs)	Data Initial Setting (32V&36V CRTs)	Data Initial Setting (32V&36V CRTs)	Data Initial Setting (32V&36V CRTs)	Comment
#0 VDHP (cont.)	MID Mode: P&P / Favorite YC 480i 197 YCbCr 480P 127 YCbCr 1080i 91 Dummy 480i 179	MID Mode: FREEZE YCbCr 480P 131 YCbCr 1080i 98 Dummy 480i 179	MID Mode: FREEZE YCbCr 480P 131 YCbCr 1080i 98 Dummy 480i 179	MID Mode: FREEZE YCbCr 480P 131 YCbCr 1080i 98 Dummy 480i 179	Dummy-480i settings are used for No Signal cases.
#1 VDHS (cont.)	219 154 151 199	153 149 199	153 149 199	153 149 199	
#2 VDVE (cont.)	24 53 37 24	53 37 24	53 37 24	53 37 24	
#3 VDVS (cont.)	56 112 126 56	112 126 56	112 126 56	112 126 56	

DX1A SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-1)

Device Name: CXD9509AQ { MID-X / Fujitsu & SONY } / IC3408 (B-board)
 Slave Address: 2Eh { Controlled through MID-X Micro (IC3090/B-board, Slave Address: 64h) }
 MID-X Micro (MASK-1): MB94918RPF-G-128-BND (Fujitsu Code: 128), MID-X Software: Version 03/30/00
 (Used in the first month DX1A production only.)
 MID-X Micro (MASK-2): MB94918RPF-G-130-BND (Fujitsu Code: 130), MID-X Software: Version 04/20/00

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V/36V CRTs)			Data Initial Setting (32V/36V CRTs)			Data Initial Setting (32V/36V CRTs)					
				UHF/VHF & CVideo	YCbCr-480i (DVID)	YCbCr-480p	YCbCr-480i (DVID)	YCbCr-480p	YCbCr-1080i						
				Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid
0	POP	Selection of service data tables (Table #: 0~15)	0~15	0	1	2	3	4	5	6	7	8	9	10	11
1	MHLY	Y coefficient code of Horizontal LPF (M)	0~3	1	1	1	1	1	1	1	1	1	1	1	1
2	MHLC	C coefficient code of Horizontal LPF (M)	0~3	3	3	3	3	3	3	3	3	3	3	3	3
3	MVLY	Y coefficient code of Vertical LPF (M)	0~3	0	0	0	0	0	0	0	0	0	0	0	0
4	MVLC	C coefficient code of Vertical LPF (M)	0~3	0	0	0	0	0	0	0	0	0	0	0	0
5	MHYR	Y coreing code of horizontal enhancement (M)	0~3	0	0	0	0	0	0	0	0	0	0	0	0
6	MHYL	Y clipping code of horizontal enhancement (M)	0~3	1	1	1	1	1	1	1	1	1	1	1	1
7	MHYE	Y level code of horizontal enhancement (M)	0~7	4	0	0	0	3	0	0	0	4	0	0	0
8	MHYC	Y coreing code of horizontal enhancement (M)	0~1	1	1	1	1	1	1	1	1	1	1	1	1
9	MHCR	C coreing code of horizontal enhancement (M)	0~3	0	0	0	0	0	0	0	0	0	0	0	0
10	MHCL	C clipping code of horizontal enhancement (M)	0~3	1	1	1	1	1	1	1	1	1	1	1	1
11	MHCE	C level code of horizontal enhancement (M)	0~7	0	0	0	0	0	0	0	0	0	0	0	0
12	MHCC	C coefficient code of horizontal enhancement (M)	0~1	1	1	1	1	1	1	1	1	1	1	1	1
13	MVYR	Y coreing code of vertical enhancement (M)	0~3	0	0	0	0	0	0	2	2	0	0	2	2
14	MVYL	Y clipping code of vertical enhancement (M)	0~3	1	1	1	1	1	1	1	1	1	1	1	1
15	MVYE	Y level code of vertical enhancement (M)	0~7	0	0	0	0	0	0	2	5	0	0	2	5
16	MVCR	C coreing code of vertical enhancement (M)	0~3	0	0	0	0	0	0	0	0	0	0	0	0
17	MVCL	C clipping code of vertical enhancement (M)	0~3	1	1	1	1	1	1	1	1	1	1	1	1
18	MVCE	C level code of vertical enhancement (M)	0~7	0	0	0	0	0	0	0	0	0	0	0	0

Register No & Name	Control Register Function & Link	Data Type	Data Range	UHF/VHF & CV			YCbCr-480i (DVID)			YCbCr-480p			YCbCr-1080i						
				Pro	Movie	Standard	Pro	Movie	Standard	Pro	Movie	Standard	Pro	Movie	Standard	Pro	Movie	Standard	Vivid
0	POP	Selection of service data tables (Table #: 0~15)	0~15	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
19	SHLY	Y coefficient code of Horizontal LPF (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	SHLC	C coefficient code of Horizontal LPF (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	SVLY	Y coefficient code of Vertical LPF (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	SVLC	C coefficient code of Vertical LPF (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	SHYR	Y coreing code of horizontal enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	SHYL	Y clipping code of horizontal enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	SHYE	Y level code of horizontal enhancement (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	SHYO	Y coefficient code of horizontal enhancement (S)	0~1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	SHCR	C coreing code of horizontal enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	SHCL	C clipping code of horizontal enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	SHCE	C level code of horizontal enhancement (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	SHCO	C coefficient code of horizontal enhancement (S)	0~1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SVYR	Y coreing code of vertical enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	SVYL	Y clipping code of vertical enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	SVYE	Y level code of vertical enhancement (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	SVCR	C coreing code of vertical enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	SVCL	C clipping code of vertical enhancement (S)	0~3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	SVCE	C level code of vertical enhancement (S)	0~7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DX1A SERVICE LIST (#14): On-Screen Display (OSD)					
Device Name: M306V2ME-150FP { System Micro (MASK) / Mitsubishi } / IC701 (A-board)					
Slave Address: 60h					
System Micro Software: Version 1.0					
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0	HPOS OSD horizontal position	C	0~255	17	C: Common data
1	HPOF Horizontal position for Favorite mode	C	0~255	26	
2	VPOS OSD vertical position	C	0~255	5	
3	VPOT Vertical position for P&P (Twin) mode	C	0~255	32	
Note:					

DX1A SERVICE LIST (#19): IDENTIFICATION (ID)							
Device Name: M306V2ME-150FP { System Micro (MASK) / Mitsubishi } / IC701 (A-board)							
Slave Address: 60h							
System Micro Software: Version 1.0							
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)			Comment
Shipping Destination-related Settings							
0	ID0 Selection of OSD languages & color systems		0~255	US	Canda	Latin	
1	ID1 Selection of composite & s-video inputs		0~255	89	89	25	
2	ID2 Selection of audio-related controls		0~255	127	127	127	
3	ID3 Selection of basic system settings		0~255	239	239	239	
4	ID4 Selection of basic system settings		0~255	98	82	194	
5	ID5 Selection of advanced system settings		0~255	203	203	203	
6	ID6 Selection of sub picture-related settings		0~255	177	177	177	
7	ID7 Selection of some reserved settings		0~255	54	54	54	
			0~255	24	24	88	
Note:							

DX1A SERVICE LIST (#17): Closed Caption Display & Parental Control (CCD&VCHIP)

Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board)
 Slave Address: 68h (Main) & 6Ch (Sub)
 CCD&Vchip Micro Software: Version 2.14

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0 HPRM	Horizontal position of CCD (Main)	C	0~255	46	C: Common data
1 HPRS	Horizontal position of CCD (Sub)	C	0~255	46	
2 RND	OSD rounding control	C	0, 1	1	
3 CCDI	Interuption control	C	0~7	3	
4 CRIP	CRI count & parity count	C	0~7	4	
5 CRIT	Charge/Discharge timing control for slice voltage level	C	0, 1	0	
6 CHMK	Horizontal mask width	C	0~63	42	
7 FPOL	Field polarity selection	C	0, 1	1	
8 LANG		C	0~3	0	
9 DATA	Switch for CCD service/test data	C	0, 1	0	
10 VCHIP	Selection of Vchip controls	C	0, 1	0	0: MASK-type micro, 1: OTP-type micro

Note:

DX1A SERVICE LIST (#16): ID-1 Detection (ID1)

Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board)
 Slave Address: 40h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting (32V&36V CRTs)	Comment
0 XJGL	XJGLK: Setting for memorizing or not the ID-1 detection status when the VTR in Fast Forward (FF) or Rewind (REW) mode	C	0, 1	0	C: Common data
1 LNJI	LNJI: Setting for the multi/single-line ID-1 detection	C	0, 1	0	

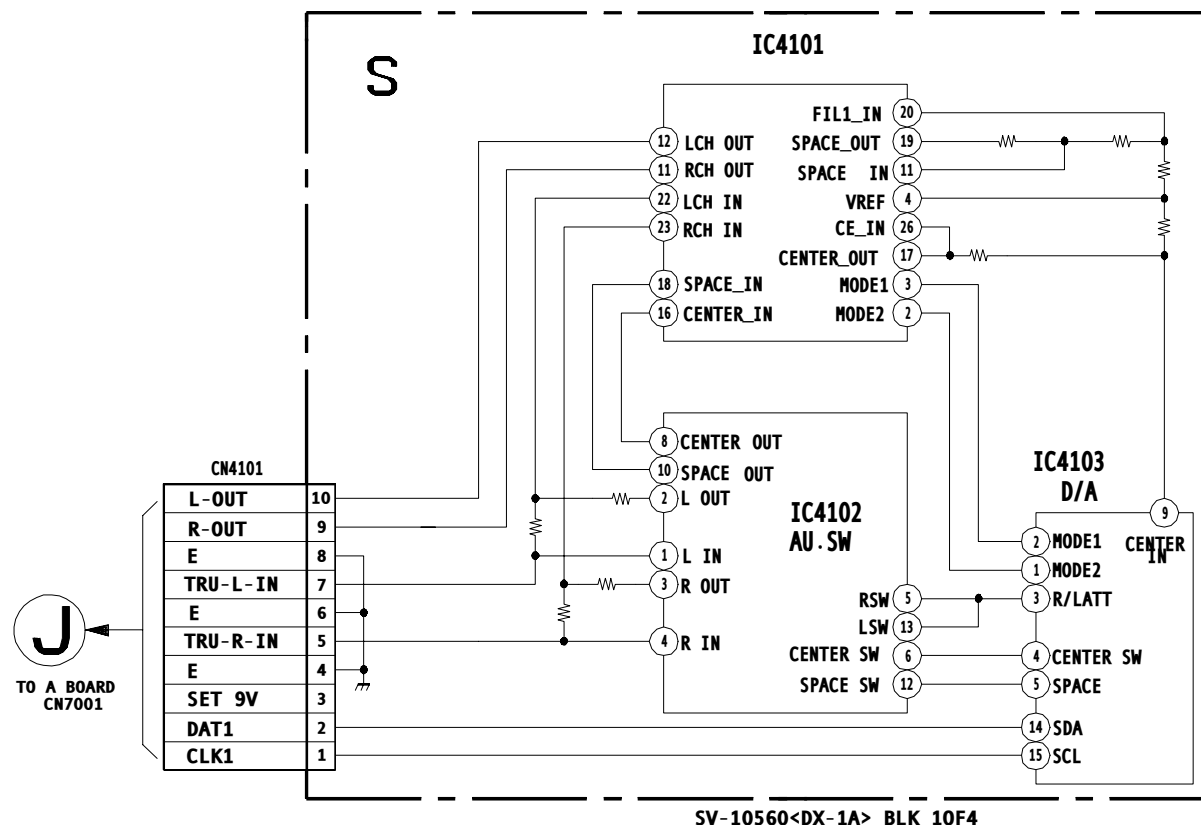
Note:

Other service controls related to CXD2085 (IDSW & DATA) are listed in Service List (CXA2150P-4) for easier engineering adjustment.

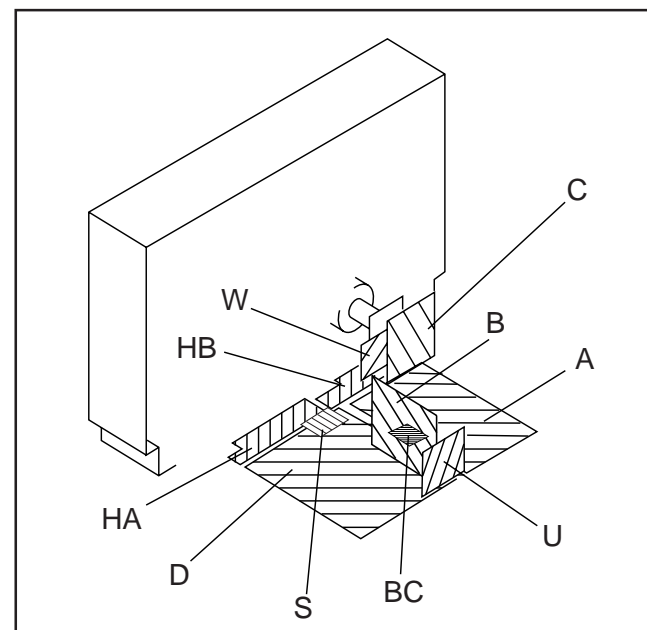
DX1A SERVICE LIST (#15): SNNR						
Related Control Devices: μPD64082 { 3D-Comb / NEC } / IC2004 (BC-board) / Slave Address: B8h CXA2103Q { Chroma Decoder / SONY } / IC3048 (B-board) / Slave Address: 9Ah (Main) CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / Slave Address: 86h						
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting 32V&36V CRTs	Comment	
0	SNNR SNNR data setting		0~3	0		
1	SNFX Selection of SNNR data settings; 0: Set SNNR automatically according to WSLT value (read data) 1: Set SNNR manually in SNNR/#0 SNNR	C	0, 1	0		C: Common data
2	WSLT Noise level detection data thresholds for SNNR data (read data)		0~255	0~30	WSLT Data / Threshold Range 31~62 63~126 127~255	
	SNNR data used as the (-) offset settings				SNNR Settings Based on WSL Data (- Offset Data)	
	SNNR = 0/1/2/3 @ WSLT ≤ 0/31/63/127, respectively		0~3	0	1 2 3	
3	CPFG Related to 3D-COMB (μPD64082) / #19 YPFG settings		-----	0	1 2 3	
4	CPFT Related to 3D-COMB (μPD64082) / #18 YPFT settings		-----	0	0 0 0	
	SNNR data used as the direct settings		-----			
5	CCOR Related to 3D-COMB (μPD64082) / #20 YHCO settings		-----	0	1 1 1	
6	CHCG Related to 3D-COMB (μPD64082) / #21 YHCG settings		-----	1	1 1 1	
	SNNR data used as the (-) offset settings					
7	CAPG Related to 3D-COMB (μPD64082) / #16 VAPG settings		-----	0	0 0 0	
8	3SHP Related to CXA2103 / #6 SHAP settings		-----	0	1 2 3	
9	MIDD Related to CXA2150P-3 / #19 MIDE settings		-----	0	1 2 3	
10	5SHP Related to CXA2150P-4 / #4 USHP settings		-----	0	1 3 4	
11	5YF1 Related to CXA2150P-3 / #10 FILV settings		-----	0	1 2 3	
12	5CDS Related to CXA2150P-3 / #11 CDSP settings		-----	0	0 0 0	
13	5LTI Related to CXA2150P-3 / #12 LTLV settings		-----	0	0 0 0	
14	5CTI Related to CXA2150P-3 / #14 CTLV settings		-----	0	0 0 0	
15	5VML Related to CXA2150P-3 / #1 UVVML settings		-----	0	0 0 0	
	SNNR data used as the (+) offset settings				SNNR Settings Based on WSL Data (+ Offset Data)	
16	5VMC Related to CXA2150P-3 / #3 VMCR settings		-----	0	+1 +2 +3	

SECTION 6
DIAGRAMS

6.1 BLOCK DIAGRAM (1/4)



6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF : μF 50VV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
 $\text{K}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : $\frac{1}{4}\text{W}$

- $\frac{1}{4}\text{W}$ in resistance, $\frac{1}{10}\text{W}$ and $\frac{1}{8}\text{W}$ in chip resistance.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a $10\text{M}\Omega$ 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.
- S : Measurement impossibility.
- : B+line.
- : B-line.
(Actual measured value may be different).
- : signal path. (RF)
- Circled numbers are waveform references.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R7017 adjustment on Page 50.)

- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced()	Adjustment()
D BOARD: D8004, D8014, IC6503, IC8001, IC8003, IC8004, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD: RV8001, RV8002, RV8003

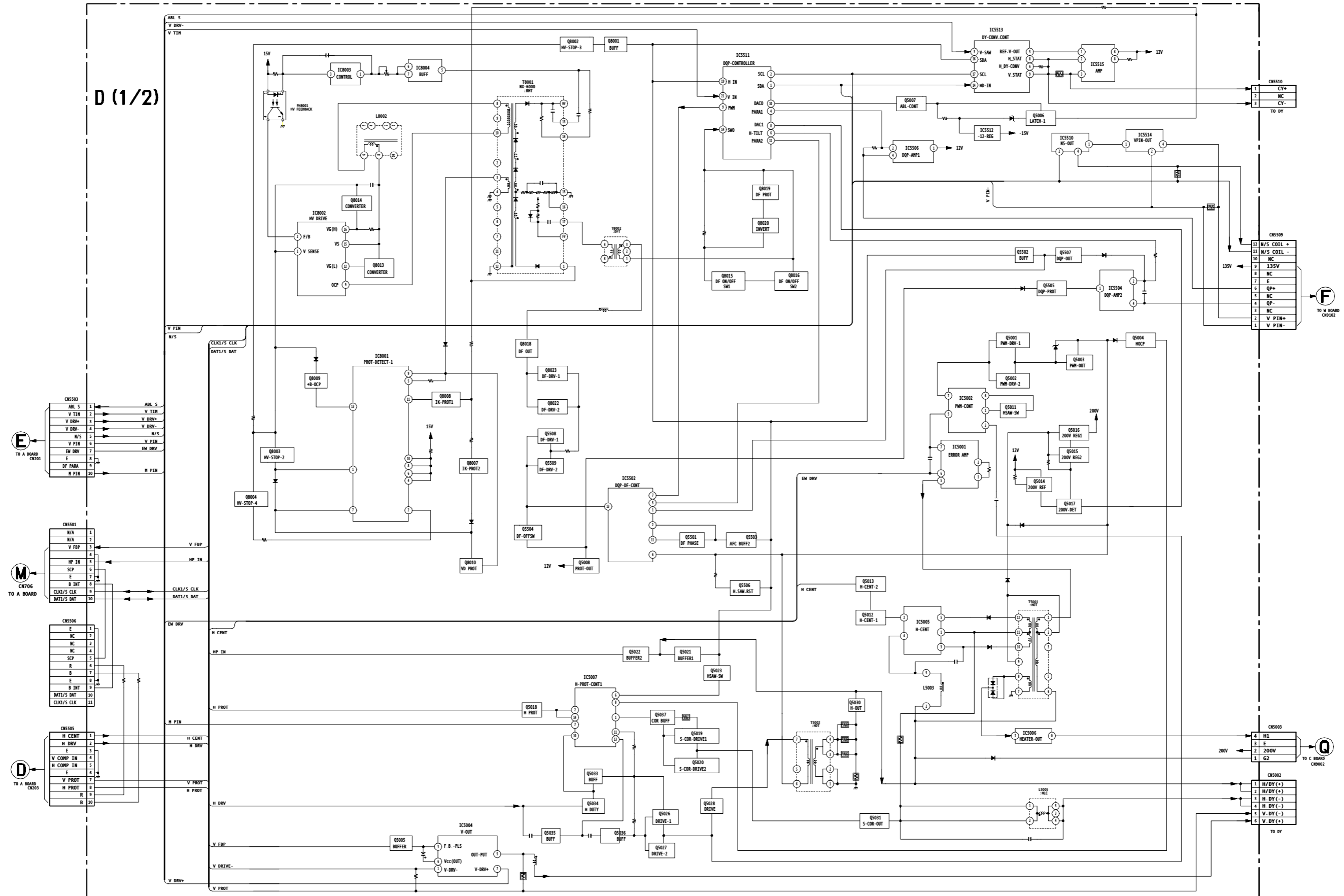
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

The symbol display is on the component side.
The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.
The symbol indicate fast operating fuse. Replace only with fuse of same rating as marked.

Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

BLOCK DIAGRAM (2/4)



D (1/2)

E

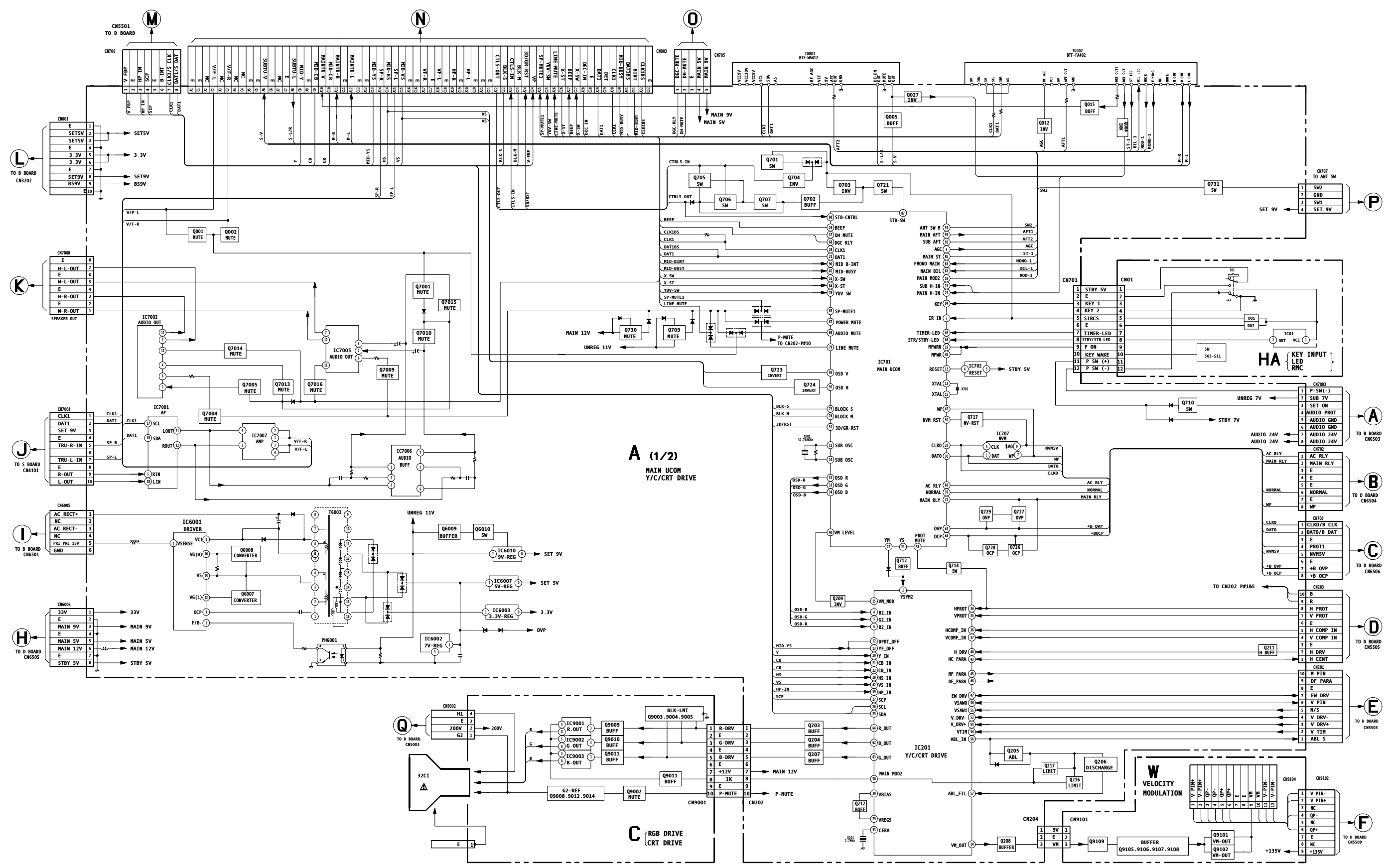
M

D

F

Q

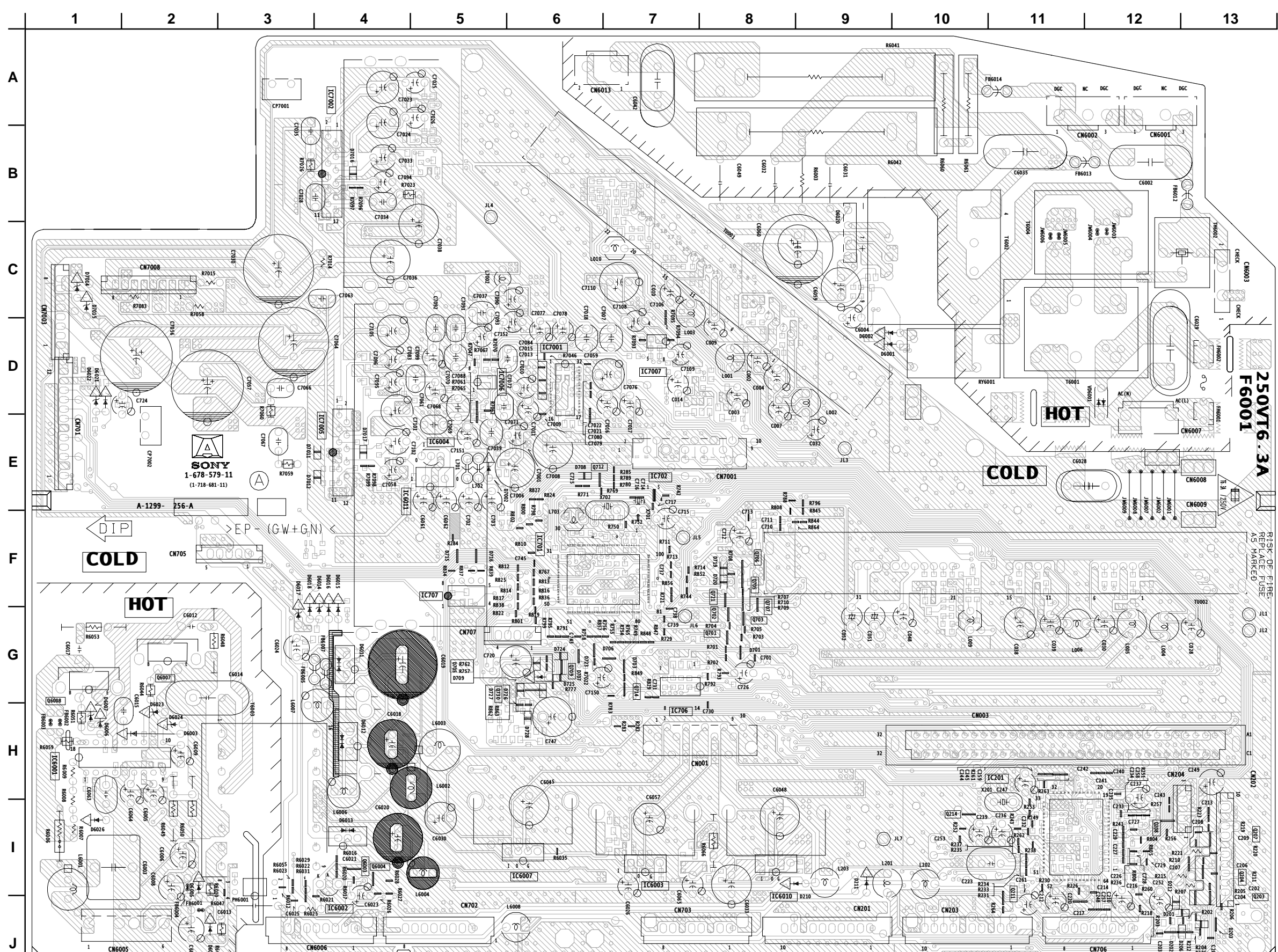
BLOCK DIAGRAM (4/4)



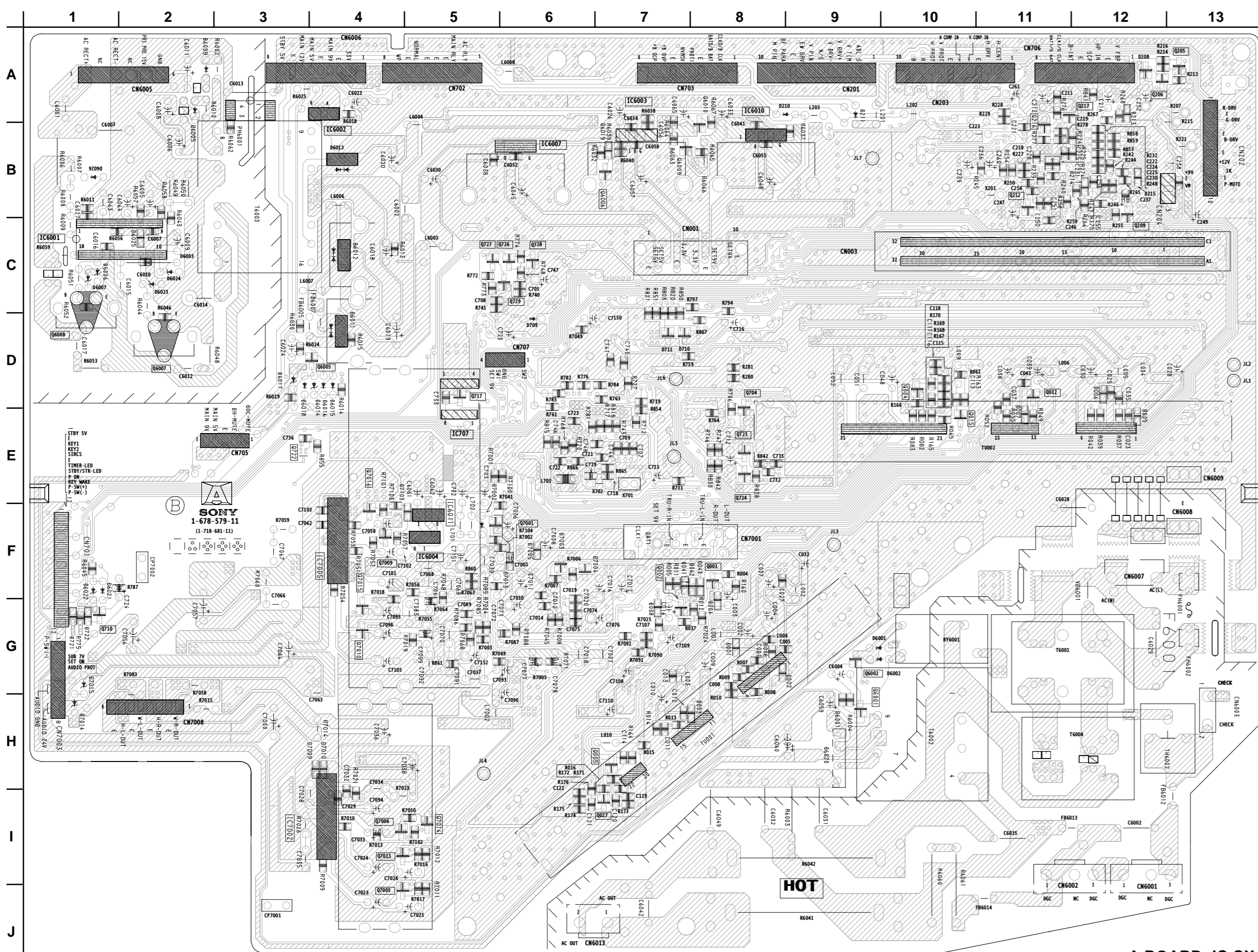
A BOARD LOCATOR LIST

DIODE		IC	
A	B	A	B
D004	G-8	IC201	H-11
D008	G-7	IC701	F-6
D203	J-13	IC702	E-7
D205	J-13	IC707	F-5
D208	A-12	IC6001	H-11
D211	I-9	IC6002	J-4
D212	I-12	IC6003	I-7
D214	B-12	IC6007	I-6
D215	B-12	IC6010	I-8
D701	B-4	IC6011	E-4
D703	G-7	IC7001	D-6
D705	G-5	IC7002	A-4
D706	G-6	IC7005	E-3
D707	G-6	IC7006	D-5
D708	E-6	IC7007	D-7
D709	G-5	TRANSISTOR	
D710	D-7	Q001	A
D711	D-7	Q002	F-8
D715	F-5	Q004	D-10
D716	F-5	Q005	H-6
D719	F-8	Q012	D-11
D720	F-8	Q015	E-10
D721	G-1	Q027	I-6
D722	G-1	Q203	J-13
D723	G-6	Q204	I-13
D724	G-6	Q205	A-13
D725	G-6	Q206	A-13
D726	G-5	Q207	I-13
D727	G-5	Q208	I-12
D728	H-6	Q209	B-12
D6001	D-9	Q211	I-11
D6002	D-9	Q212	B-11
D6003	H-2	Q214	H-10
D6005	I-2	Q216	A-11
D6009	J-3	Q217	A-12
D6011	G-4	Q701	G-8
D6012	H-4	Q702	G-8
D6013	I-4	Q703	G-8
D6014	F-4	Q704	D-8
D6017	F-3	Q705	F-8
D6018	D-3	Q706	F-8
D6020	B-9	Q707	F-8
D6025	D-3	Q709	G-6
D7003	F-6	Q710	G-2
D7004	F-6	Q712	E-6
D7005	F-6	Q717	D-5
D7009	H-4	Q721	F-7
D7010	H-4	Q723	E-8
D7011	E-4	Q724	E-8
D7012	E-4	Q726	C-5
D7013	F-6	Q727	C-6
D7014	C-1	Q728	C-6
D7015	C-1	Q729	D-6
D7016	B-4	Q730	G-5
D7017	E-4	Q731	G-5
D7103	E-4	Q6001	G-9
		Q6002	G-10
		Q6007	G-2
		Q6008	G-1
		Q6009	B-7
		Q6010	A-8
		Q7001	F-6
		Q7004	I-4
		Q7005	J-4
		Q7009	G-4
		Q7010	G-4
		Q7013	I-4
		Q7014	I-5
		Q7015	F-4
		Q7016	E-4

A [TUNER, CRT DRIVE, MAIN UCOM, POWER SUPPLY, AUDIO] COMPONENT SIDE



A [TUNER, CRT DRIVE, MAIN UCOM, POWER SUPPLY, AUDIO] CONDUCTOR SIDE



A BOARD IC VOLTAGE LIST

pin	volt	32	3.0
1	GND	33	1.6
2	0	34	0
3	0	35	0
4	3.1	36	0.2
5	3.1	37	0
6	3.1	38	3.2
7	3.1	39	1.1
8	3.6	40	2.8
9	3.6	41	GND
10	3.8	42	0
11	0	43	3.8
12	0.5	44	GND
13	0.5	45	2.8
14	2.3	46	3.6
15	3.7	47	3.9
16	2.7	48	4.4
17	2.6	49	5.4
18	1.1	50	3.5
19	4.9	51	3.8
20	3.6	52	3.4
21	3.4	53	3.5
22	3.4	54	1.0
23	3.4	55	9.0
24	NC	56	1.0
25	4.6	57	4.3
26	4.6	58	3.9
27	0.7	59	1.7
28	0	60	1.7
29	5.0	61	9.0
30	5.6	62	2.3
31	1.3	63	2.5
		64	2.3

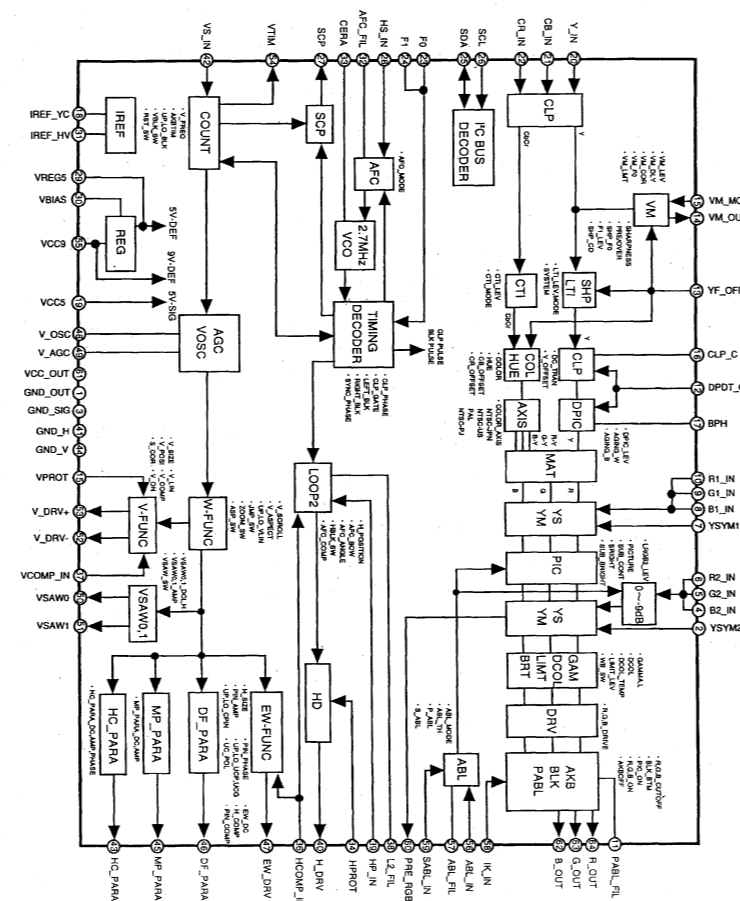
All voltages are in V

A BOARD TRANSISTOR VOLTAGE LIST

Q001	B	C	E
Q001	0.4	0	GND
Q002	0.4	0	GND
Q004	4.6	1.1	5.0
Q005	4.3	9.0	3.8
Q012	0.1	7.5	GND
Q015	6.2	9.0	5.5
Q027	4.5	0	5.0
Q203	2.3	GND	3.2
Q204	2.5	GND	3.2
Q205	2.3	3.4	GND
Q206	3.4	4.1	3.5
Q207	2.3	GND	3.2
Q208	2.3	GND	3.2
Q209	0.8	2.2	GND
Q211	2.8	11.5	2.3
Q212	5.6	9.0	5.0
Q214	0	0	GND
Q216	4.5	GND	3.9
Q217	4.4	8.7	3.9

All voltages in V

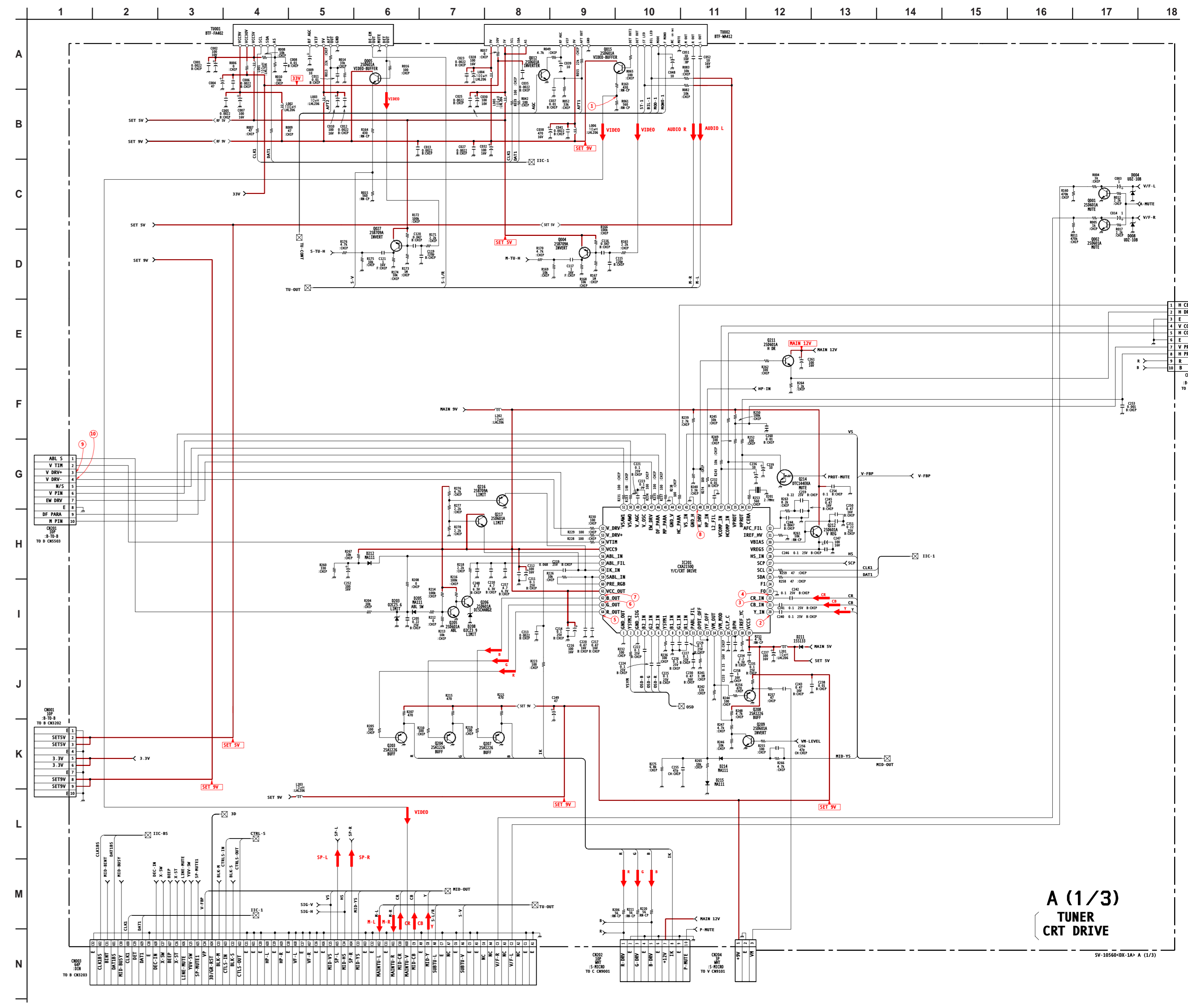
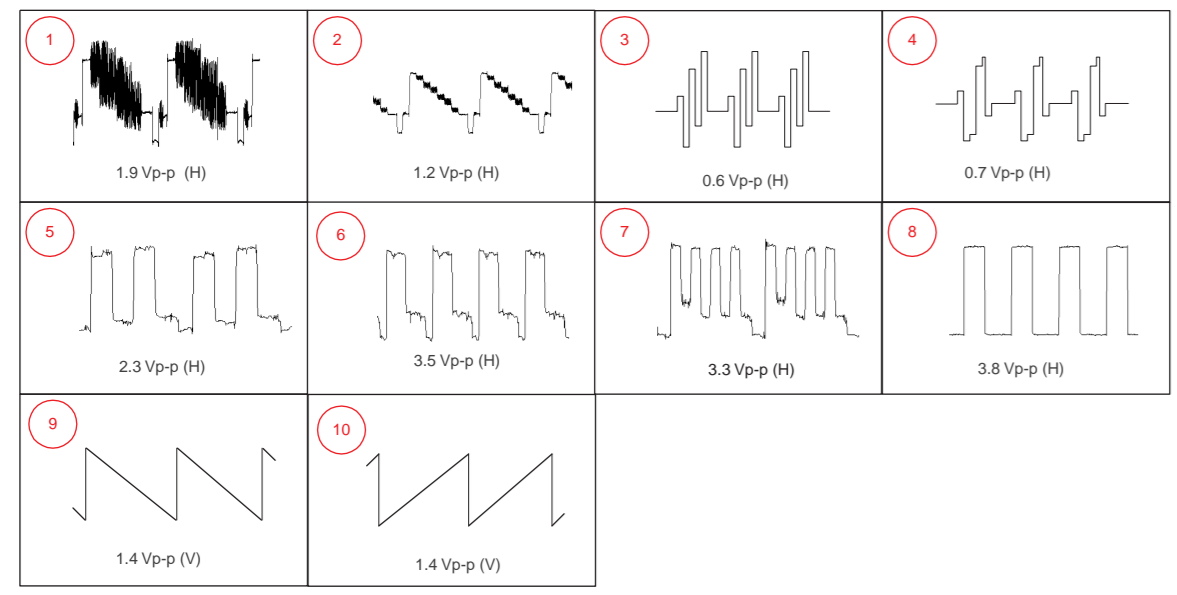
A BOARD IC CXA2150Q



A BOARD LOCATOR LIST

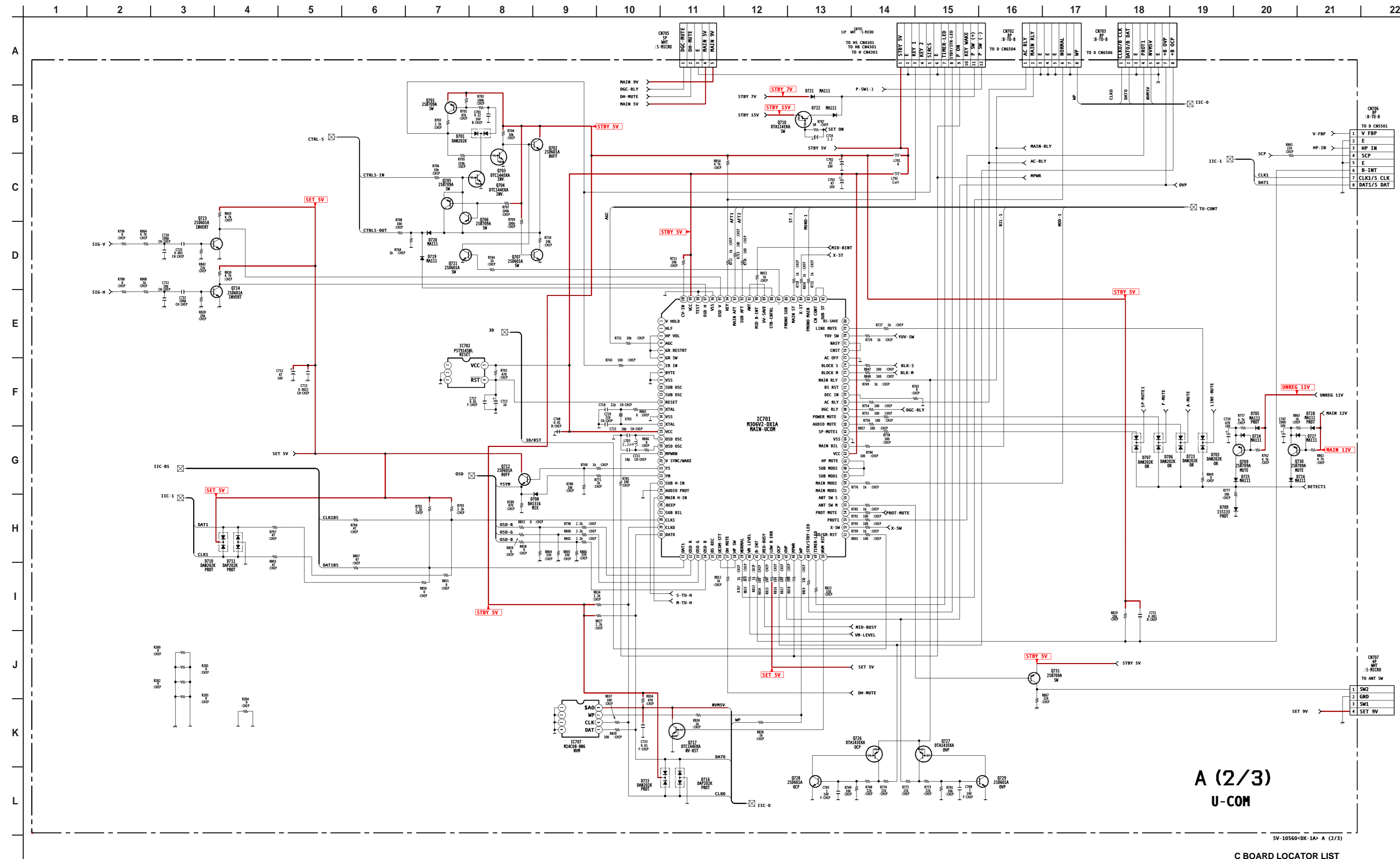
DIODE		D6003		D6005		D6007		D704	
A	B	A	B	A	B	A	B	A	B
D004	G-8	D6005	I-2	D6007	I-6	Q704	A	D-8	
D008	G-7	D6009	J-3	IC6010	I-8	Q705	F-8		
D203	J-13	D6011	G-4	IC6011	E-4	Q706	F-8		
D205	J-13	D6012	H-4	IC7001	D-6	Q709	G-8		
D208	A-12	D6013	I-4	IC7002	A-4	Q710		G-2	
D211	I-9	D6014	F-4	IC7005	E-3	Q712	E-6	D-5	
D212	I-12	D6017	F-3	IC7006	D-5	Q717			
D214	B-12	D6018		IC7007	D-7	Q721	F-7		
D215	B-12	D6020	B-9	TRANSISTOR		Q723	E-8		
D701	B-4	D6025	D-3	Q001	A	Q724	E-8		
D703	G-7	D7002	E-5	Q002	F-8	Q726	C-5		
D705	G-5	D7003	F-6	Q004	D-10	Q727	C-6		
D706	G-6	D7004	F-6	Q005	H-6	Q728	C-6		
D707	G-6	D7005	F-6	Q012	D-11	Q729	D-6		
D708	E-6	D7009	H-4	Q015	E-10	Q730	G-5		
D709	G-5	D7010	H-4	Q027	I-6	Q6001	G-9		
D710	D-7	D7011	E-4	Q203	J-13	Q6002	G-10		
D711	D-7	D7012	E-4	Q204	I-13	Q6007	G-2		
D715	F-5	D7013	C-1	Q205	A-13	Q6008	G-1		
D716	F-5	D7014	C-1	Q206	H-10	Q6009	B-7		
D719	F-8	D7015	B-1	Q207	I-13	Q6010	A-8		
D720	F-8	D7016	B-1	Q208	I-12	Q7001	F-6		
D721	F-8	D7017	E-4	Q209	B-12	Q7004	I-4		
D722	G-1	D7103	E-4	Q211	I-11	Q7005	J-4		
D723	G-6			Q212	B-11	Q7006	G-4		
D724	G-6	IC201	H-11	Q214	H-10	Q7010	G-4		
D725	G-6	IC701	F-6	Q216	A-11	Q7013	I-4		
D726	G-5	IC702	E-7	Q217	A-12	Q7014	I-5		
D727	G-5	IC707	F-5	Q701	G-8	Q7015	F-4		
D728	H-6	IC6001	H-11	Q702	G-8	Q7016	E-4		
D6001	D-9	IC6002	J-4	Q703	G-8				
D6002	D-9								

A (1/3) BOARD WAVEFORMS



A (1/3) TUNER CRT DRIVE

SV-10160-00-1A-1 (1/3)



A (2/3)
U-COM

SV-10560-0X-1A* A (2/3)

C BOARD LOCATOR LIST

DIODE		IC	
A	B	A	B
D9001	B-6	IC9001	B-2
D9002	B-6	IC9002	B-3
D9003	B-6	IC9003	B-5
D9005	A-5	TRANSISTOR	
D9006	C-5	A	B
D9007	C-3	Q9001	A-2
D9008	C-5	Q9002	A-5
D9009	D-5	Q9003	A-4
D9010	C-5	Q9004	A-4
D9013	C-5	Q9005	A-3
D9014	B-6	Q9008	B-1
D9015	A-5	Q9009	A-4
D9016	B-6	Q9010	A-4
D9017	B-6	Q9011	A-3
		Q9012	B-1
		Q9014	C-6

A BOARD IC VOLTAGE LIST

IC701				IC702			
pin	volt	pin	volt	pin	volt	pin	volt
1	NC	33	0	67	0	1	NC
2	NC	36	0	68	0	2	GND
3	0	37	4.8	69	7.3	3	GND
4	0	38	0	70	0	4	4.9
5	0	39	0	71	NC	5	4.9
6	0	40	0	72	6.3	6	4.9
7	4.7	41	2.3	73	0	7	4.9
8	GND	42	0	74	0	8	GND
9	GND	43	4.8	75	0	9	GND
10	NC	44	2.8	76	0	10	GND
11	NC	45	0.1	77	0	11	GND
12	4.9	46	0	78	0	12	4.9
13	2.3	47	4.6	79	0	13	4.9
14	GND	48	5.0	80	NC	14	GND
15	2.4	49	5.0	81	0	15	5.0
16	4.9	50	0	82	0	16	4.9
17	0	51	5.0	83	0	17	5.0
18	0	52	0	84	0	18	5.0
19	0	53	3	85	0	19	5.0
20	2.8	54	0	86	0	20	5.0
21	0	55	0	87	0	21	5.0
22	0	56	0	88	0	22	5.0
23	0	57	NC	89	0	23	5.0
24	GND	58	0	90	0	24	5.0
25	0	59	0	91	0	25	5.0
26	NC	60	0	92	0	26	5.0
27	NC	61	0	93	0	27	5.0
28	4.4	62	4.9	94	4.6	28	5.0
29	4.9	63	4.3	95	4.6	29	5.0
30	4.9	64	GND	96	NC	30	5.0
31	4.4	65	0	97	4.9	31	5.0
32	0	66	NC	98	4.6	32	5.0
				99	4.9		
				100	4.6		

All voltages are in V.

C BOARD IC VOLTAGE LIST

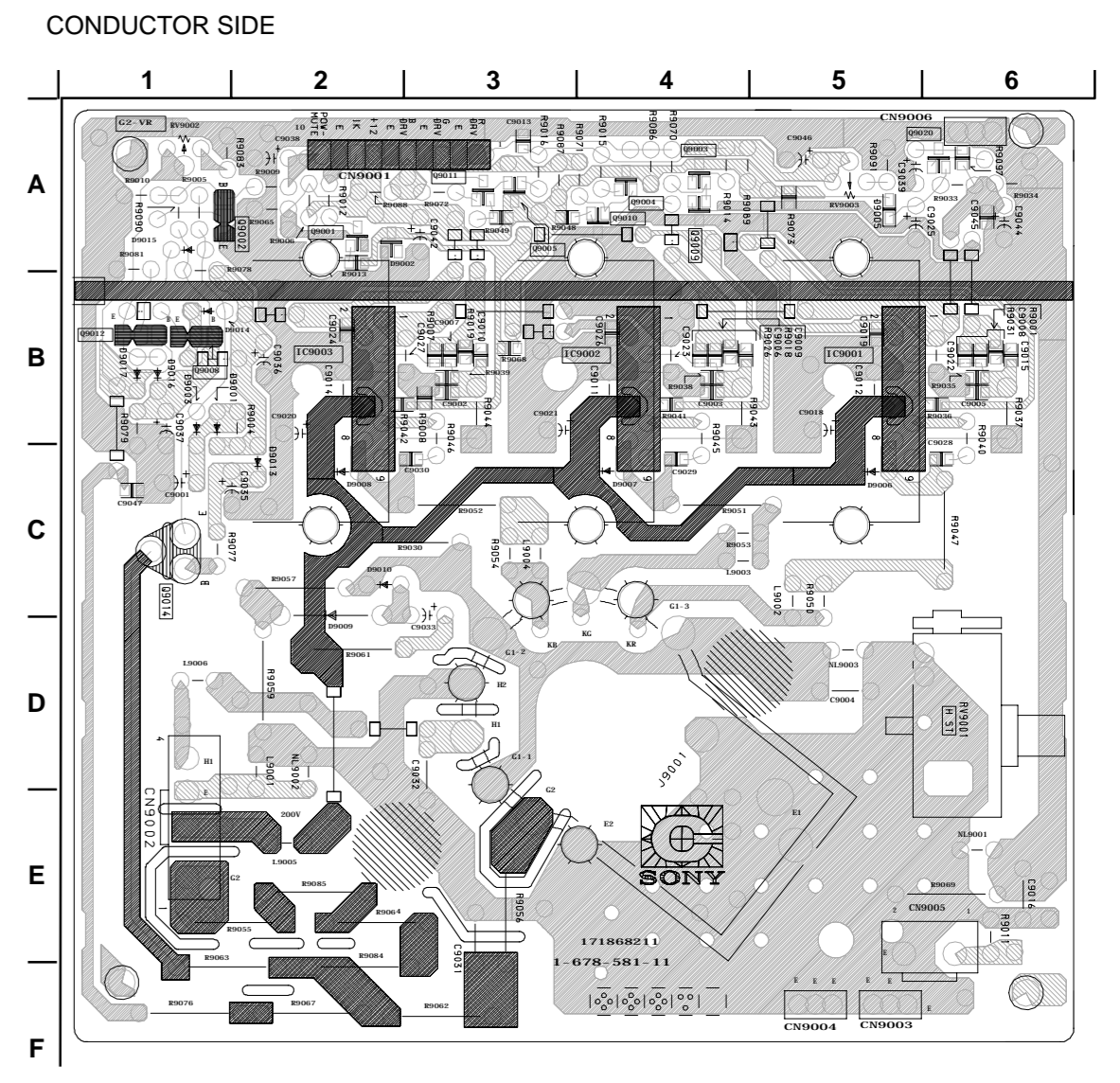
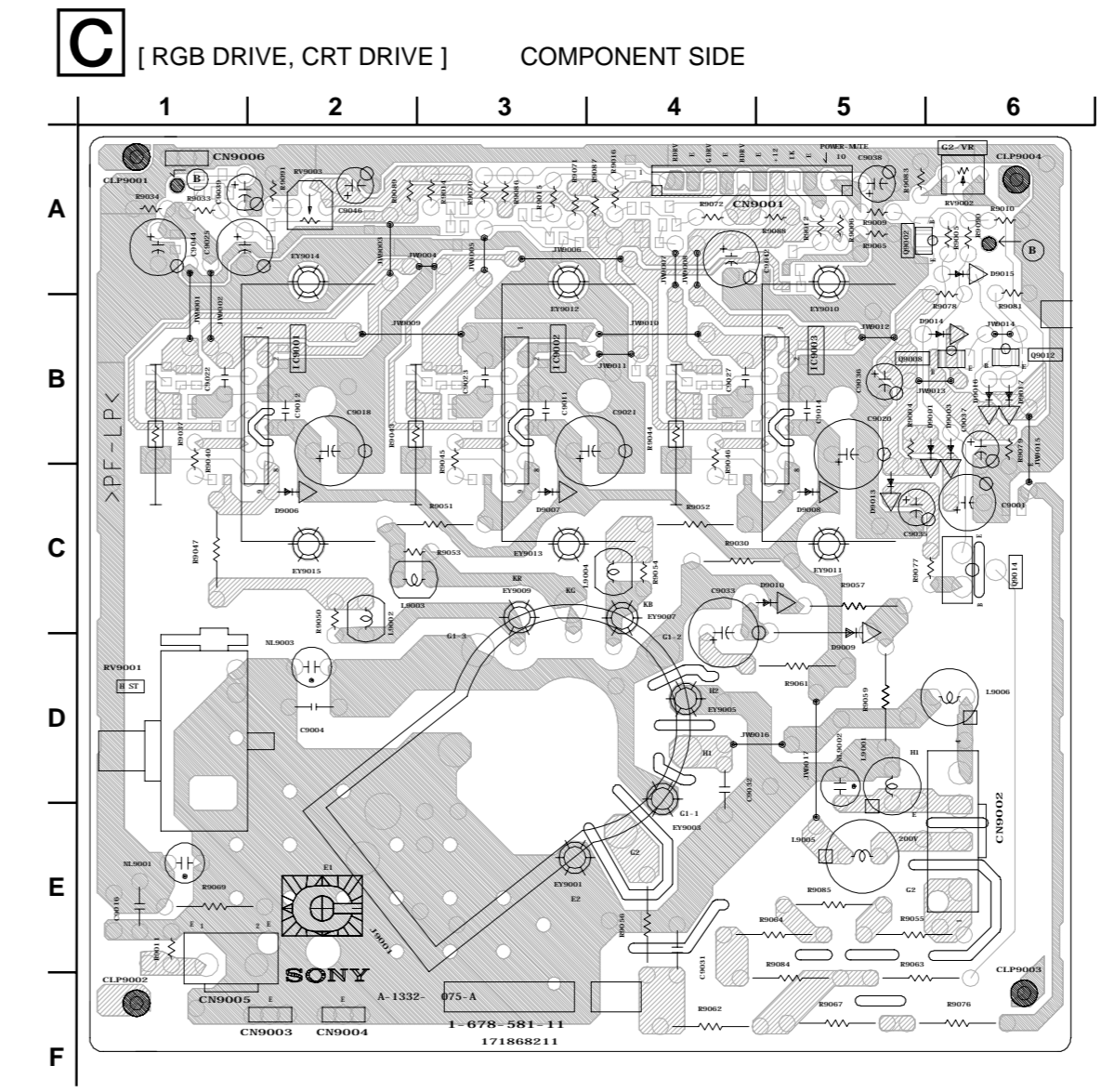
IC9001		IC9002		IC9003	
pin	volt	pin	volt	pin	volt
1	3.5	1	3.5	1	3.5
2	12.0	2	12.0	2	12.0
3	3.5	3	3.5	3	3.5
4	GND	4	GND	4	GND
5	8.0	5	7.8	5	7.8
6	203.0	6	203.0	6	203.0
7	145.0	7	142.8	7	147.0
8	158.0	8	164.0	8	163.0
9	144.0	9	142.0	9	146.0

All voltages are in V.

C BOARD TRANSISTOR VOLTAGE LIST

Q9001	B	C	E
Q9001	7.5	GND	3.6
Q9002	0.2	11.1	GND
Q9003	2.1	12.0	3.2
Q9004	2.1	12.0	3.2
Q9005	3.2	12.0	2.1
Q9008	5.4	12.0	4.8
Q9009	3.2	GND	3.9
Q9010	3.2	GND	4.0
Q9011	3.2	GND	3.9
Q9012	5.4	10.5	4.8
Q9014	11.7	450.0	11.1

All voltages are in V.

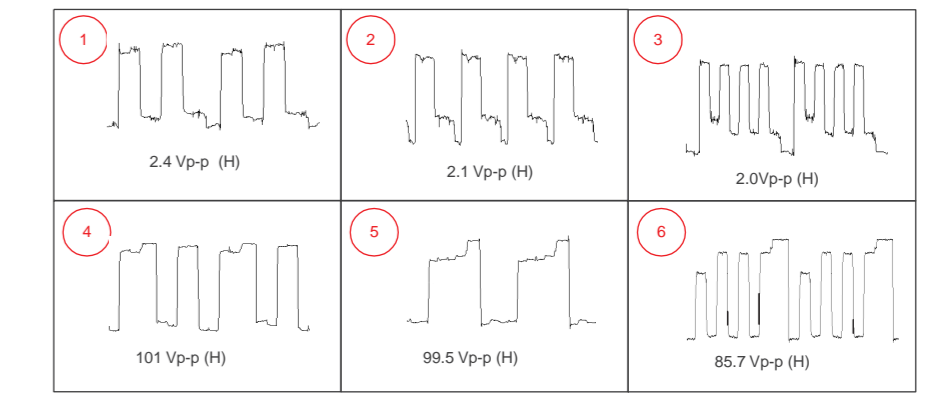


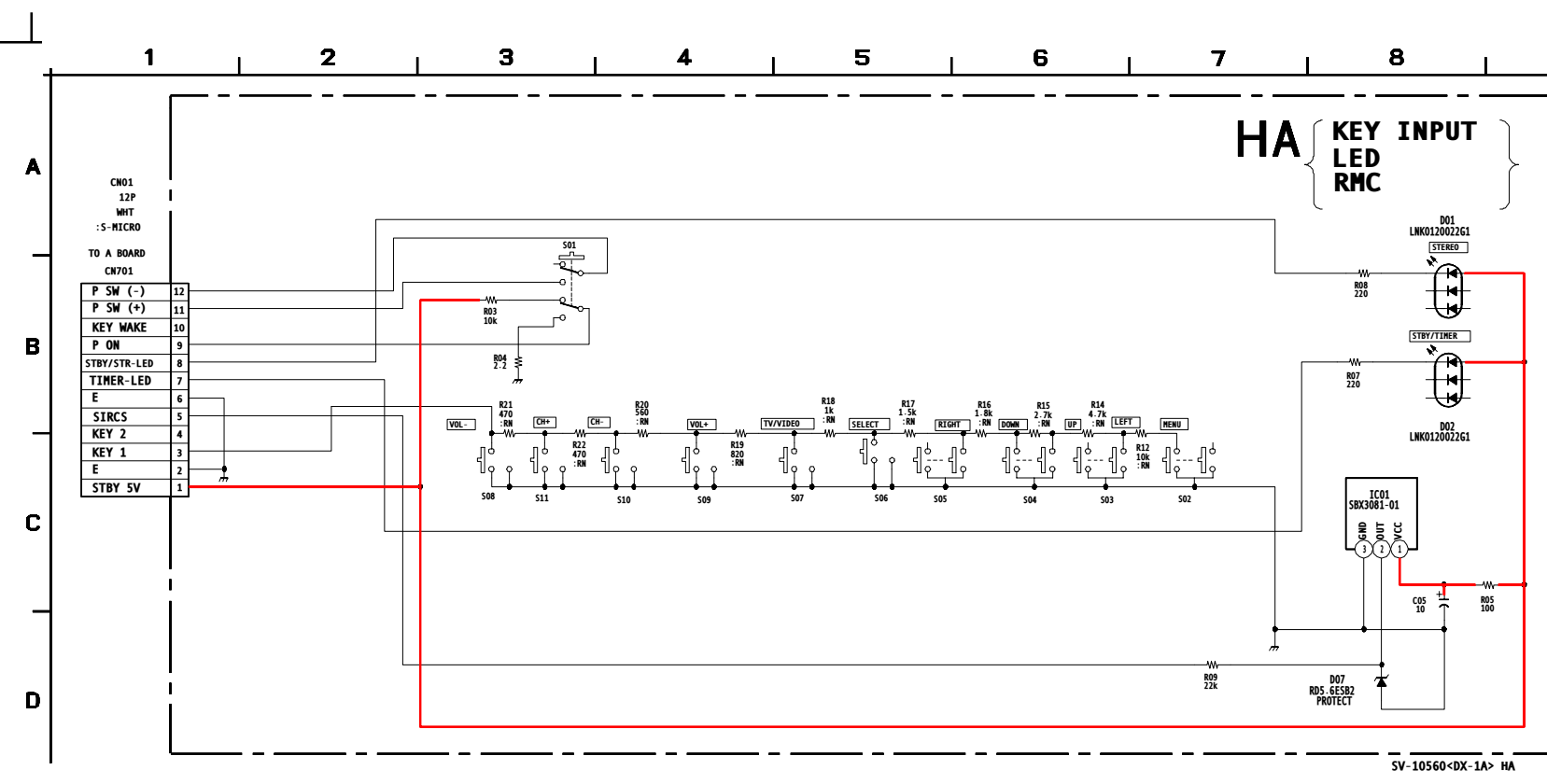
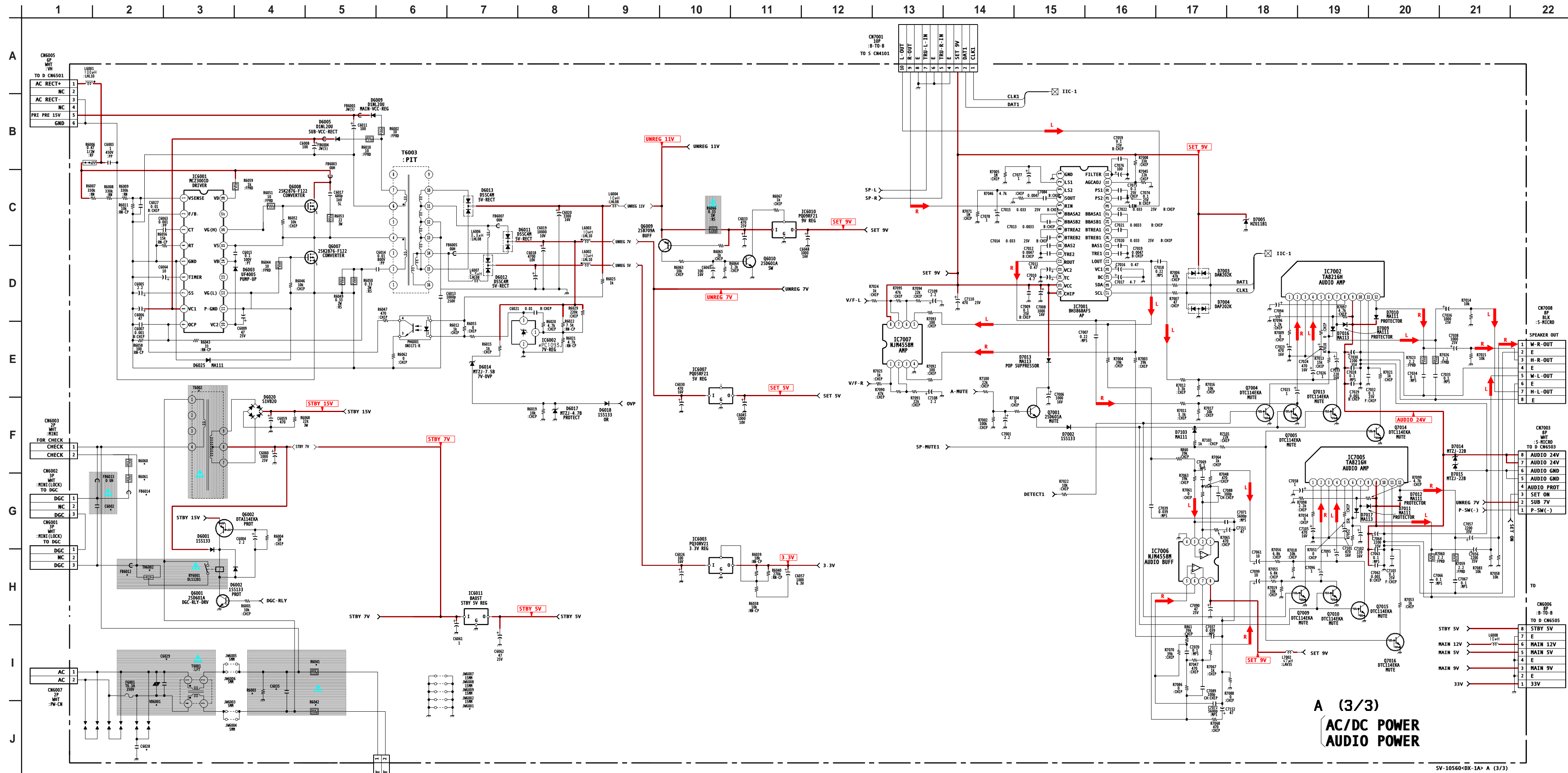
A BOARD TRANSISTOR VOLTAGE LIST

Q701	B	C	E
Q701	4.7	4.7	5.0
Q702	0.1	5.0	0
Q703	4.6	5.0	GND
Q704	0	4.4	GND
Q705	5.0	0	0
Q706	5.0	0	0
Q707	0.5	0	GND
Q709	10.4	0.7	10.2
Q710	19.5	0	19.9
Q712	0	5.0	0
Q717	0	5.0	GND
Q719	0.6	4.5	GND
Q720	4.5	0	4.5
Q721	0	0	GND
Q723	0.2	4.6	GND
Q724	0.5	4.6	GND
Q731	0	0	5.0

All voltages are in V.

C BOARD WAVEFORMS





A BOARD (*) MARK LIST

REF NO.	LOC	KV-32XBR400	KV-36XBR400	KV-38DRC1C
C6002	G-1	0.22 125V	0.22 125V	0.22 300V
C6028	J-2	#	#	4700p 250V
C6029	I-2	0.47 125V	0.47 125V	0.47 300V
C6035	I-4	0.047 125V	0.047 125V	0.047 300V
FB6012	H-2	1.1 uH	1.1 uH	#
FB6014	G-2	#	#	1.1 uH
JW6001	G-2	15mm	15mm	#
R6003	I-4	3.3M 1/2W	3.3M 1/2W	8.2M 1W
R6041	I-4	0.47 20W	0.47 20W	1 20W
R6042	I-4	0.47 20W	0.47 20W	1 20W
R6060	F-2	#	#	3.3 10W
R6061	F-2	#	#	3.3 10W
T6002	F-3	1-435-675-11	1-435-675-11	1-435-676-11
TH6002	H-2	1-803-970-11	1-803-970-11	1-803-541-11
VD6001	I-2	ERZV10D271	ERZV10D271	ENE471D-14A

: Not Mounted

HA BOARD IC VOLTAGE LIST

IC01	pin	volt
IC01	1	4.9
	2	0
	3	4.3

All voltages are in V

HA BOARD LOCATOR LIST

IC	DIODE
D01	B-2
D02	C-2
D07	B-2
IC	DIODE
IC01	B-3

A BOARD IC VOLTAGE LIST

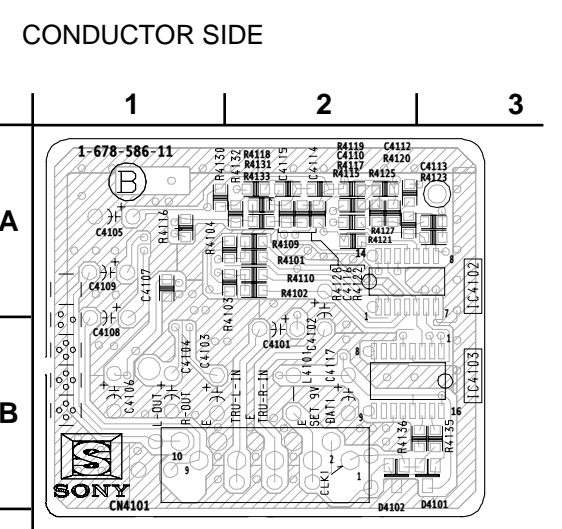
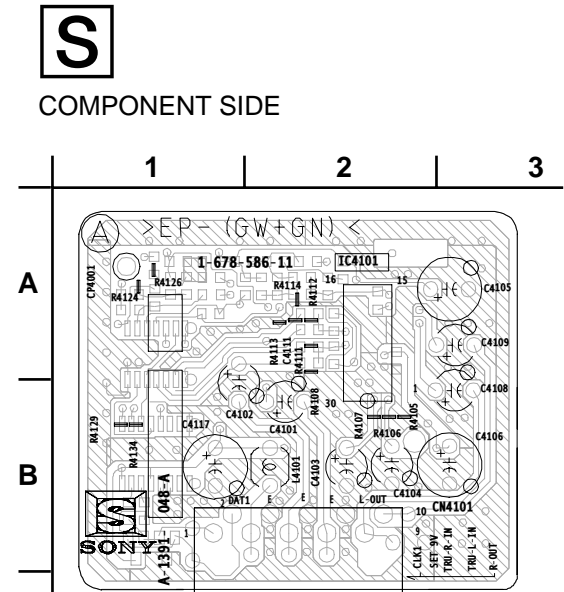
IC6001	IC6002	IC6011	IC7002	IC7007
pin	pin	pin	pin	pin
1 3.3	1 7.3	15 9.0	6 8.0	1 4.5
2 1.8	2 GND	16 9.0	7 11.0	2 4.5
3 2.2	3 2.5	17 4.5	8 5.0	3 4.5
4 2.5	4 GND	18 4.6	9 0	4 GND
5 GND	5 5.7	19 1.9	10 10	5 4.5
6 0	6 I	20 0.8	11 4.2	6 4.5
7 4.6	7 G	21 4.4	12 10.5	7 4.5
8 17.3	8 O	22 4.4	13 10.5	8 4.5
9 0	9 5.0	23 4.4	14 10.5	9 4.5
10 10.4	10 5.0	24 4.4	15 4.5	10 4.5
11 GND	11 6.3	25 4.4	16 4.5	11 4.5
12 4.7	12 G	26 4.4	17 4.1	12 4.5
13 NC	13 O	27 4.4	18 10.5	13 GND
14 160.6	14 4.4	28 4.4	19 4.5	14 GND
15 150.4	15 pin	29 4.4	20 4.5	15 4.5
16 154.6	16 I	30 4.5	21 1.6	16 4.5
17 NC	17 G	31 2.8	22 0	17 9.0
18 303.1	18 O	32 4.4	23 0	

All voltages are in V

A BOARD TRANSISTOR VOLTAGE LIST

Q6001	Q6002	Q6003	Q7001	Q7002	Q7003	Q7004	Q7005	Q7009	Q7010	Q7011	Q7014	Q7016
pin	pin	pin	pin	pin	pin	pin	pin	pin	pin	pin	pin	pin
0 18.0	0 18.5	-0.5 0	0.3 0	-0.1 9.0	9.0 0	0.3 8.0	0 0	0.3 8.0	0 0	-0.1 0	4.1 GND	4.2 GND

All voltages in V.



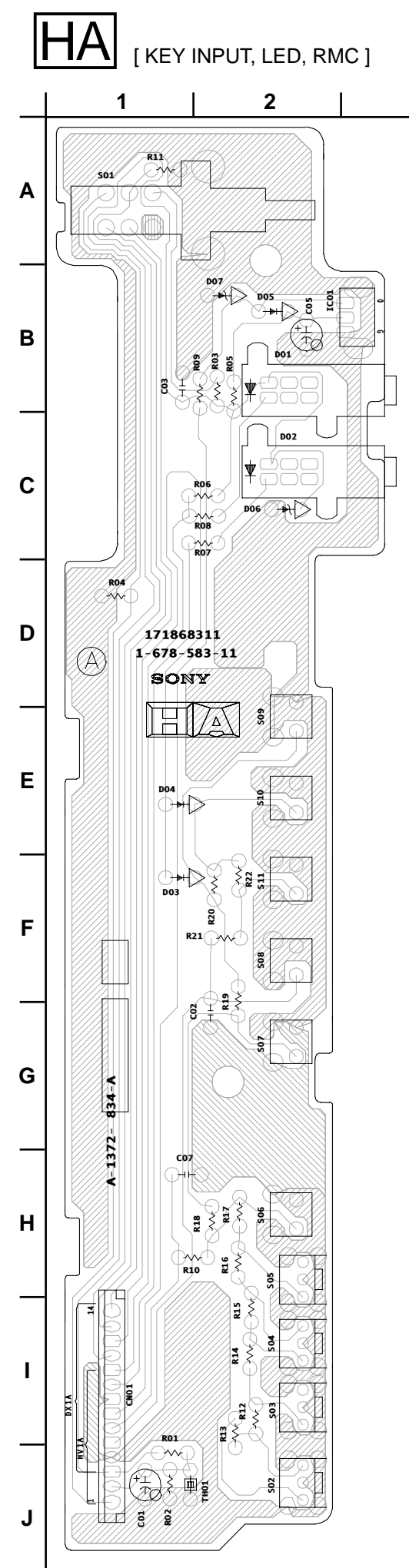
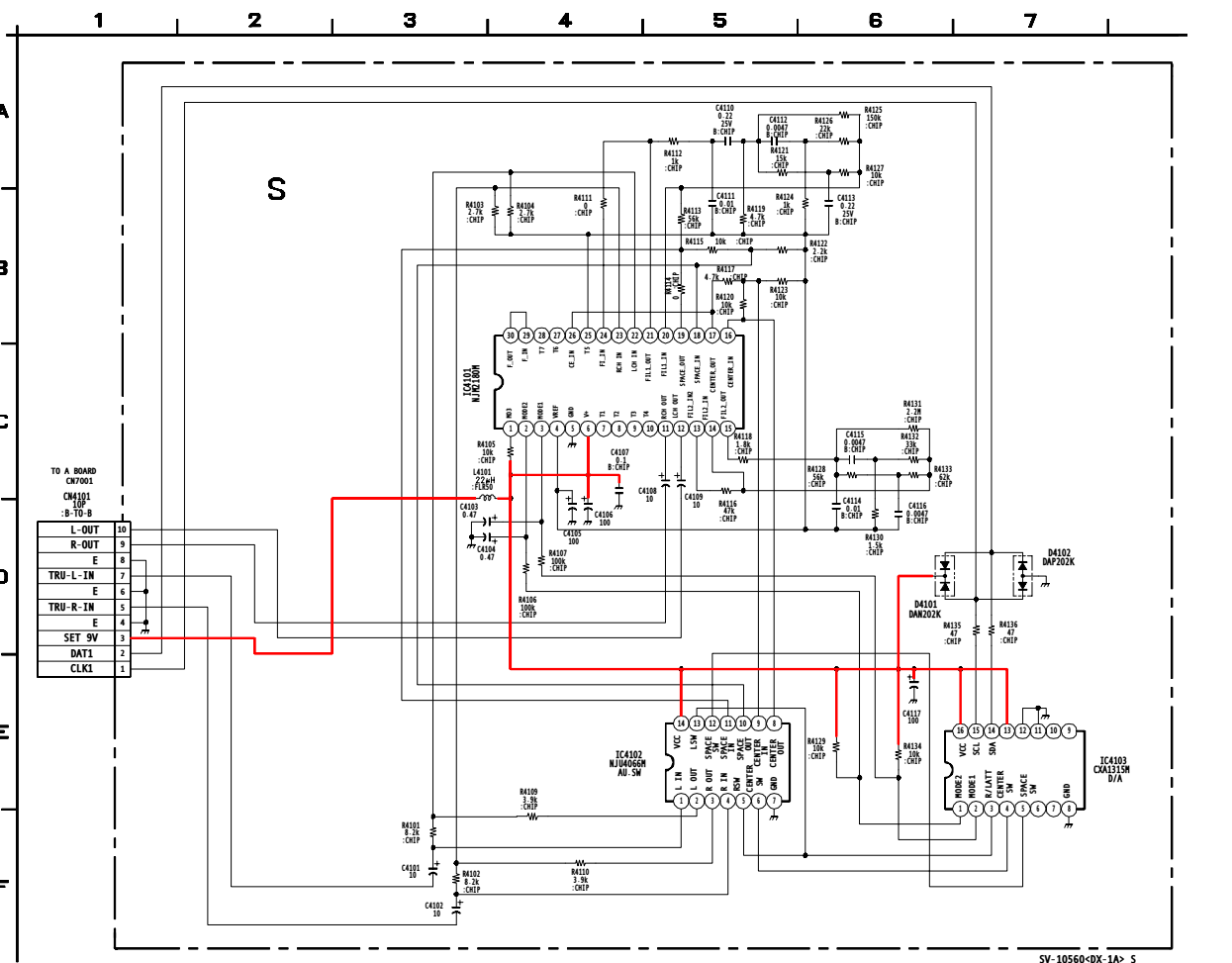
S BOARD LOCATOR LIST

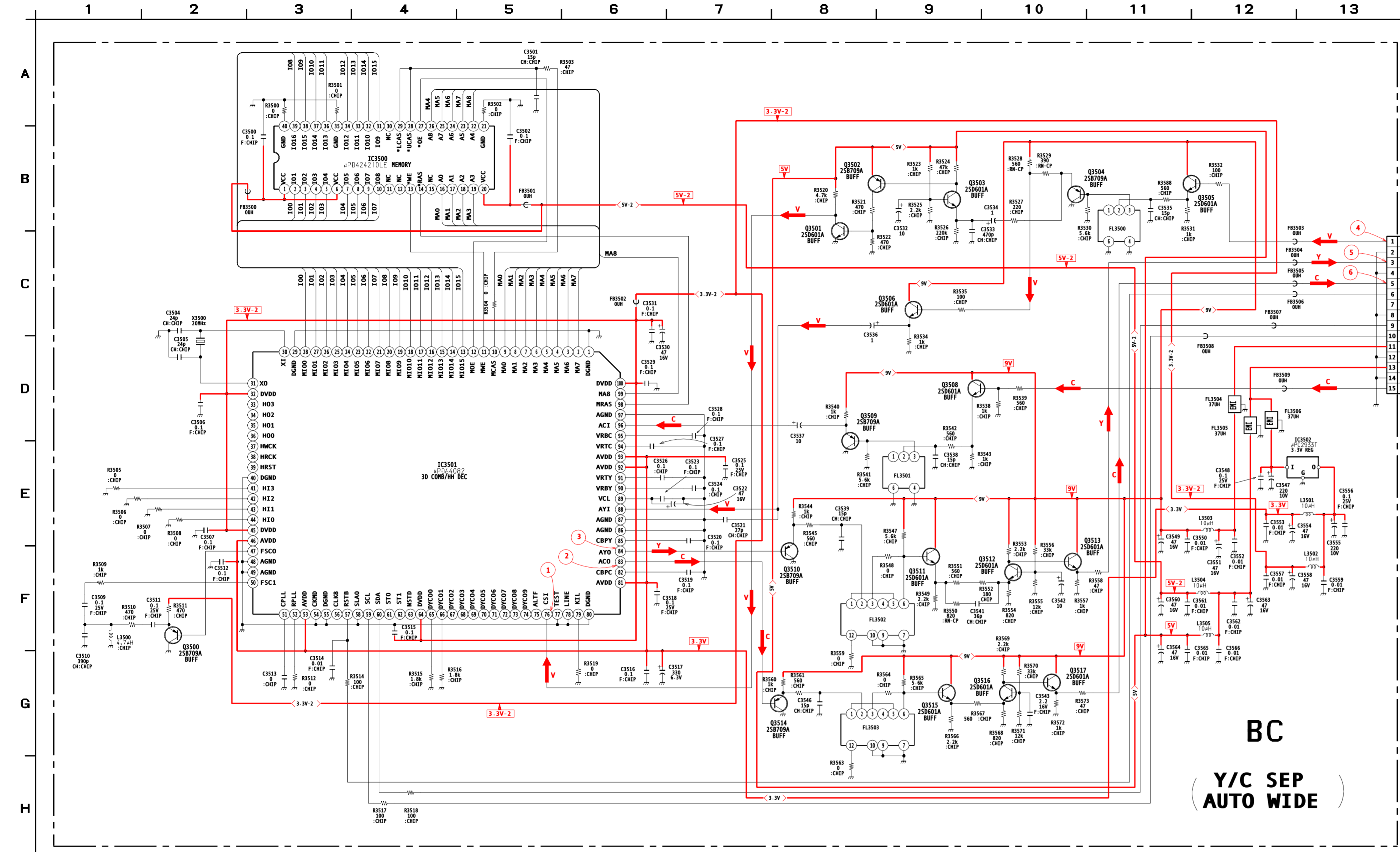
DIODE	A	B
D4101	A	B-3
D4102	A-2	B-2
IC	A	B
IC4101	A-2	A-3
IC4102	A-2	A-3
IC4103	A-2	B-3

S BOARD IC VOLTAGE LIST

IC4101	IC4102
pin	pin
1 8.4	1 4.5
2 0.1	2 4.5
3 0.1	3 4.5
4 4.5	4 4.5
5 GND	5 8.6
6 9.0	6 0.3
7 NC	7 GND
8 NC	8 4.5
9 NC	9 4.5
10 NC	10 4.5
11 4.5	11 4.5
12 4.5	12 0.3
13 4.5	13 8.6
14 4.5	14 9.0
15 4.5	15 4.5
16 4.5	pin
17 4.5	1 0.1
18 4.5	2 0.1
19 4.5	3 8.6
20 4.5	4 0.3
21 4.5	5 0.3
22 4.5	6 NC
23 4.5	7 NC
24 4.5	8 GND
25 4.5	9 NC
26 4.5	10 NC
27 4.5	11 GND
28 NC	12 GND
29 4.5	13 9.0
30 4.5	14 4.5
	15 4.5
	16 9.0

All voltages are in V

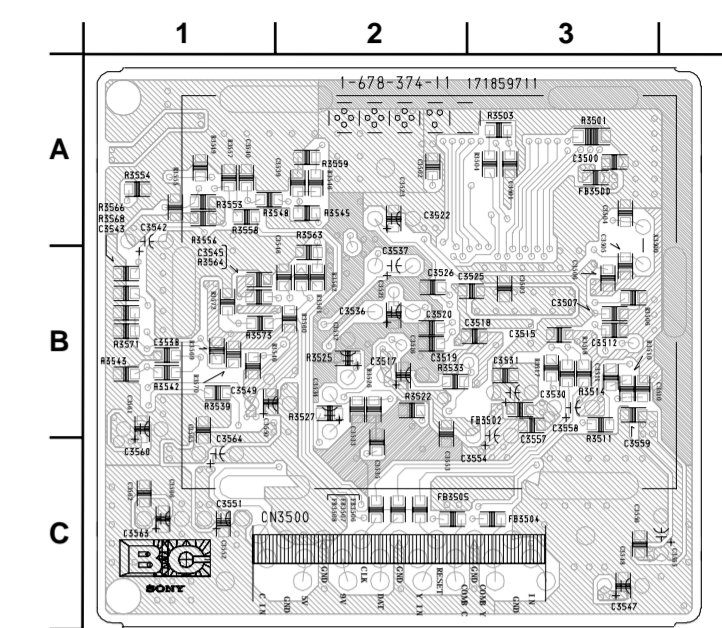
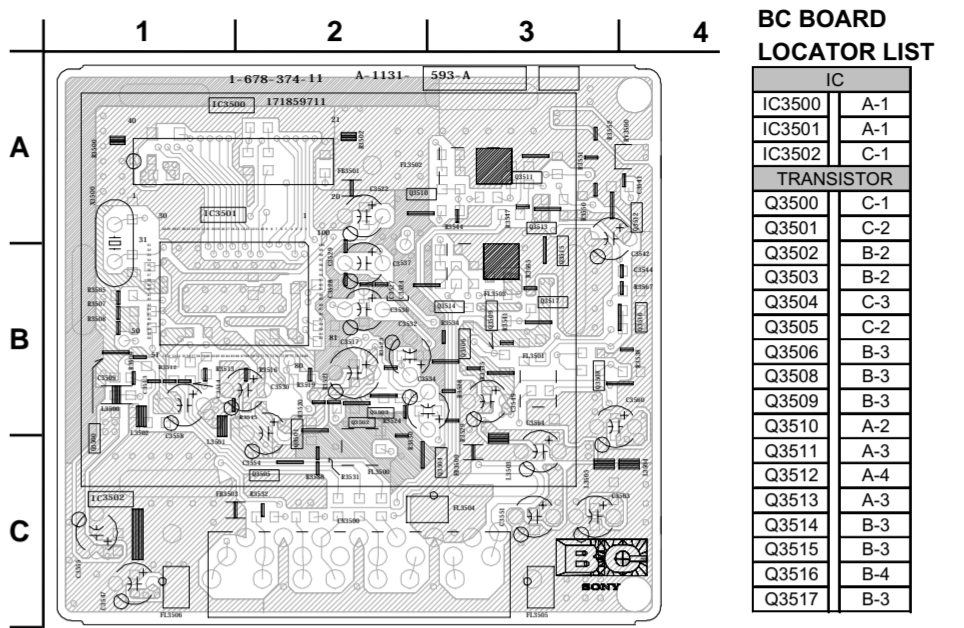




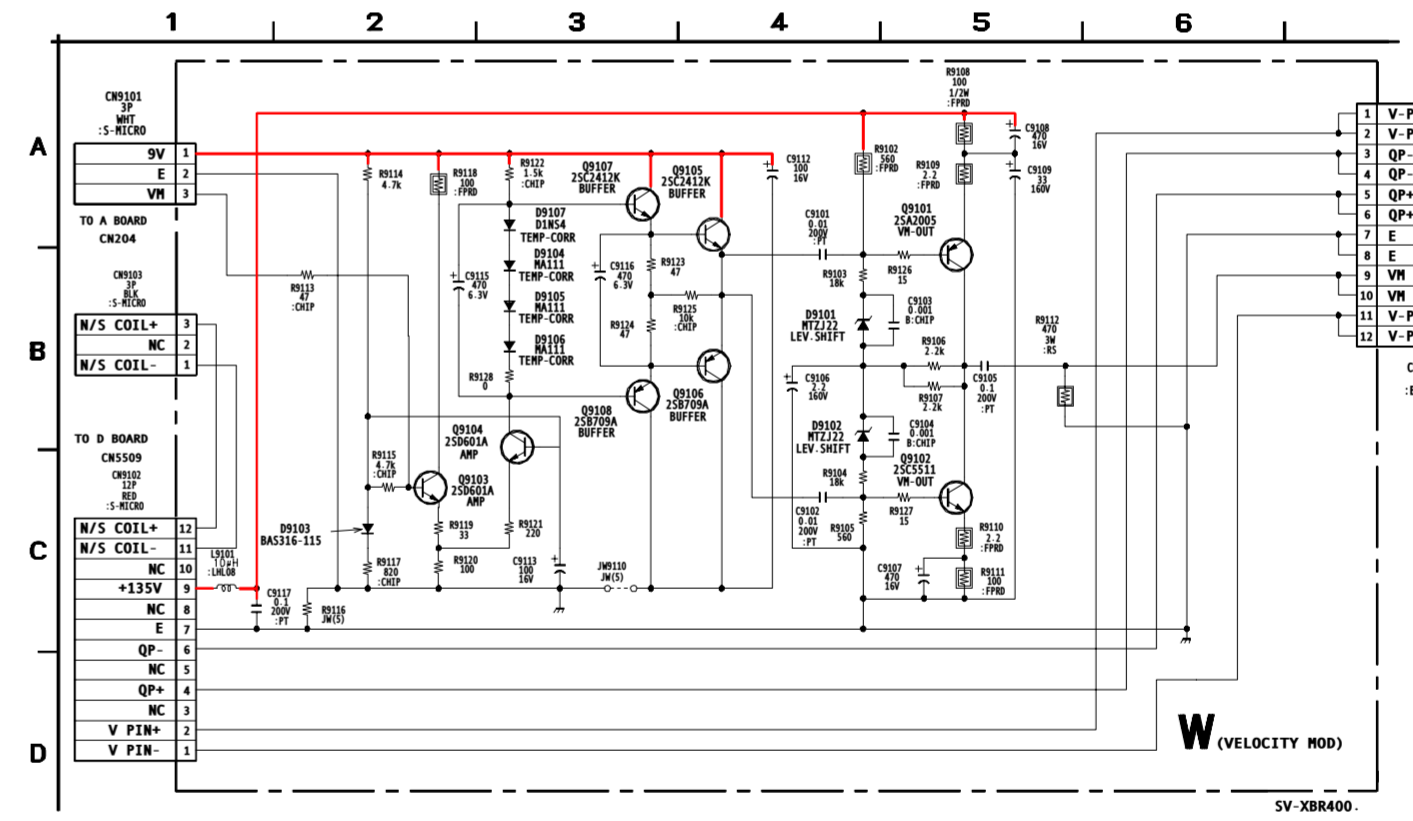
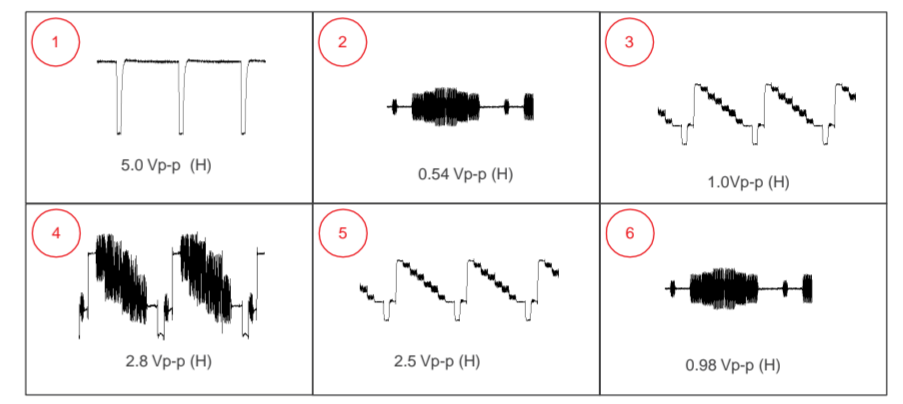
BC [Y/C SEP, AUTO WIDE]

COMPONENT SIDE

CONDUCTOR SIDE

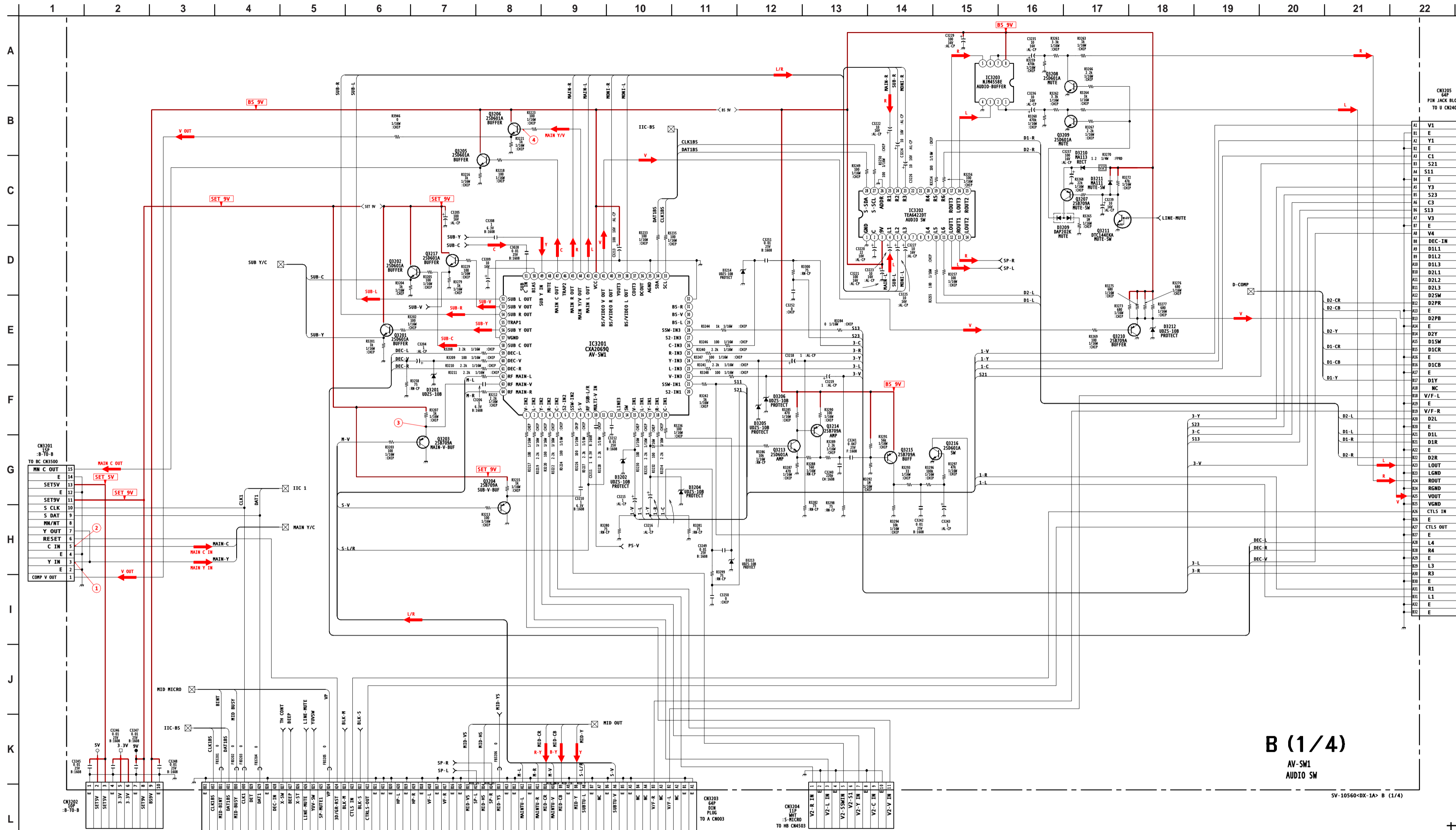


BC BOARD WAVEFORMS



W BOARD TRANSISTOR VOLTAGE LIST

Q	B	C	E
Q9101	133.8	67.5	134.3
Q9102	1.3	67.5	0.8
Q9103	2.9	0	9.0
Q9104	9.0	5.1	0
Q9105	5.1	9.0	4.7
Q9106	4.1	GND	4.7



B BOARD IC VOLTAGE LIST

IC3201	pin	volt	26	4.4	53	3.8	14	4.4
	1	3.9	27	0.1	54	4.5	15	4.4
	2	4.4	29	NC	56	3.4	17	4.4
	3	3.9	30	NC	57	GND	18	4.4
	4	4.4	31	NC	58	4.3	19	4.4
	5	4.4	32	GND	59	4.4	20	NC
	6	0.1	33	4.4	60	3.9	21	NC
	7	4.9	34	4.6	61	4.4	22	NC
	8	4.0	35	0.0	62	4.4	23	4.4
	9	4.5	36	NC	63	4.8	24	4.4
	10	4.4	37	NC	64	4.4	25	4.4
	11	4.5	38	4.5	IC3202	26	GND	
	12	4.4	39	NC	pin	volt	27	4.6
	13	NC	40	4.5	1	GND	28	4.6
	14	NC	41	4.5	2	4.4	IC3203	
	15	4.4	42	9.0	3	9.0	pin	volt
	16	4.4	43	4.5	4	4.4	1	4.4
	17	3.9	44	4.4	5	4.4	2	4.4
	18	4.4	45	4.5	6	4.4	3	4.4
	19	4.4	46	NC	7	NC	4	GND
	20	0.1	47	4.4	8	NC	5	4.4
	21	4.9	48	NC	9	NC	6	4.4
	22	4.3	49	4.1	10	4.4	7	4.4
	23	4.4	50	4.5	11	4.4	8	9.0
	24	3.9	51	4.4	12	4.4		
	25	4.4	52	4.5	13	4.4		

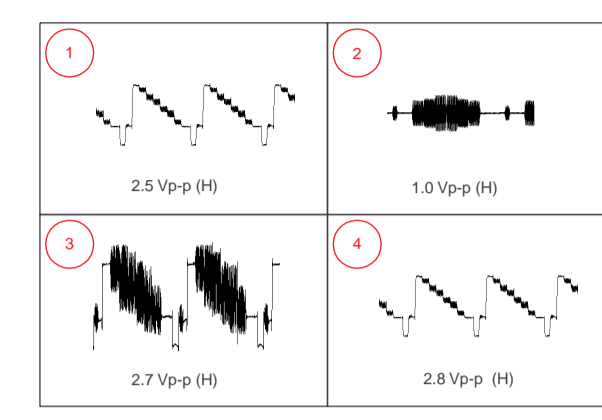
All voltages are in V.

B BOARD TRANSISTOR VOLTAGE LIST

Q3201	B	C	E
Q3201	4.6	2.9	2.5
Q3202	2.7	9.0	2.3
Q3203	3.1	GND	3.7
Q3204	1.8	GND	2.2
Q3205	4.4	4.0	3.8
Q3206	4.9	9.0	4.3
Q3207	8.9	-1.0	8.9
Q3208	4.9	9.0	4.3
Q3209	-0.3	0	GND
Q3210	2.7	GND	3.1
Q3211	0.4	8.9	GND
Q3212	3.8	7.9	3.2
Q3213	3.8	7.9	3.2
Q3214	7.9	5.8	8.5
Q3215	8.5	0	9.0
Q3216	0.1	4.9	0
Q3217	3.6	9.0	3.1

All voltages in V.

B (1/4) BOARD WAVEFORMS



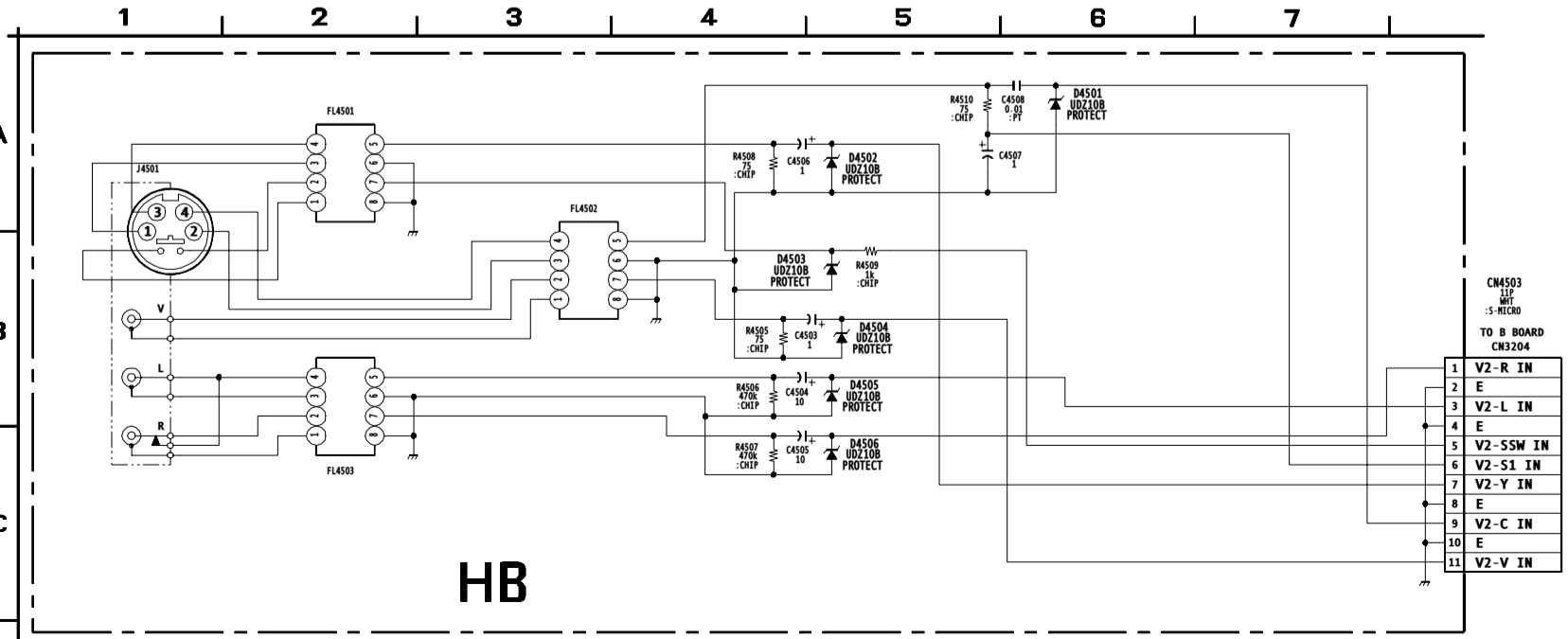
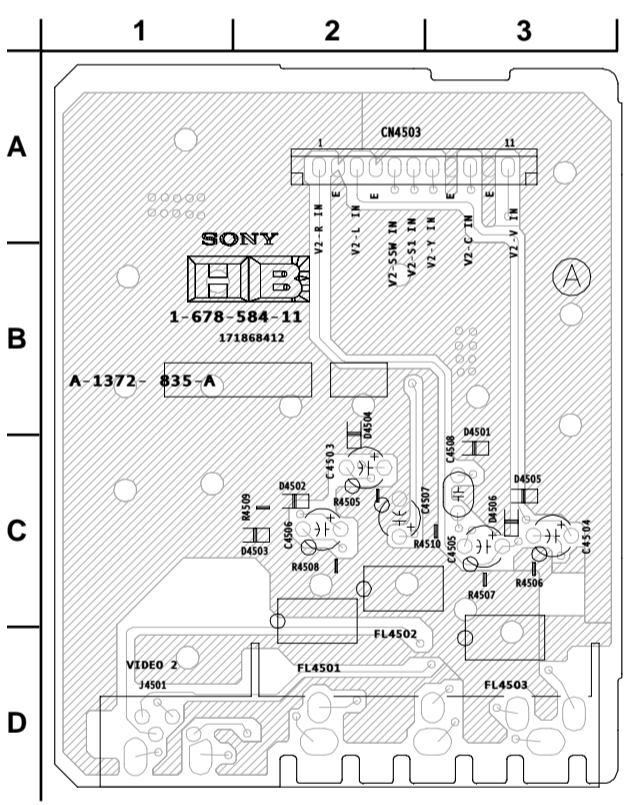
B (1/4)

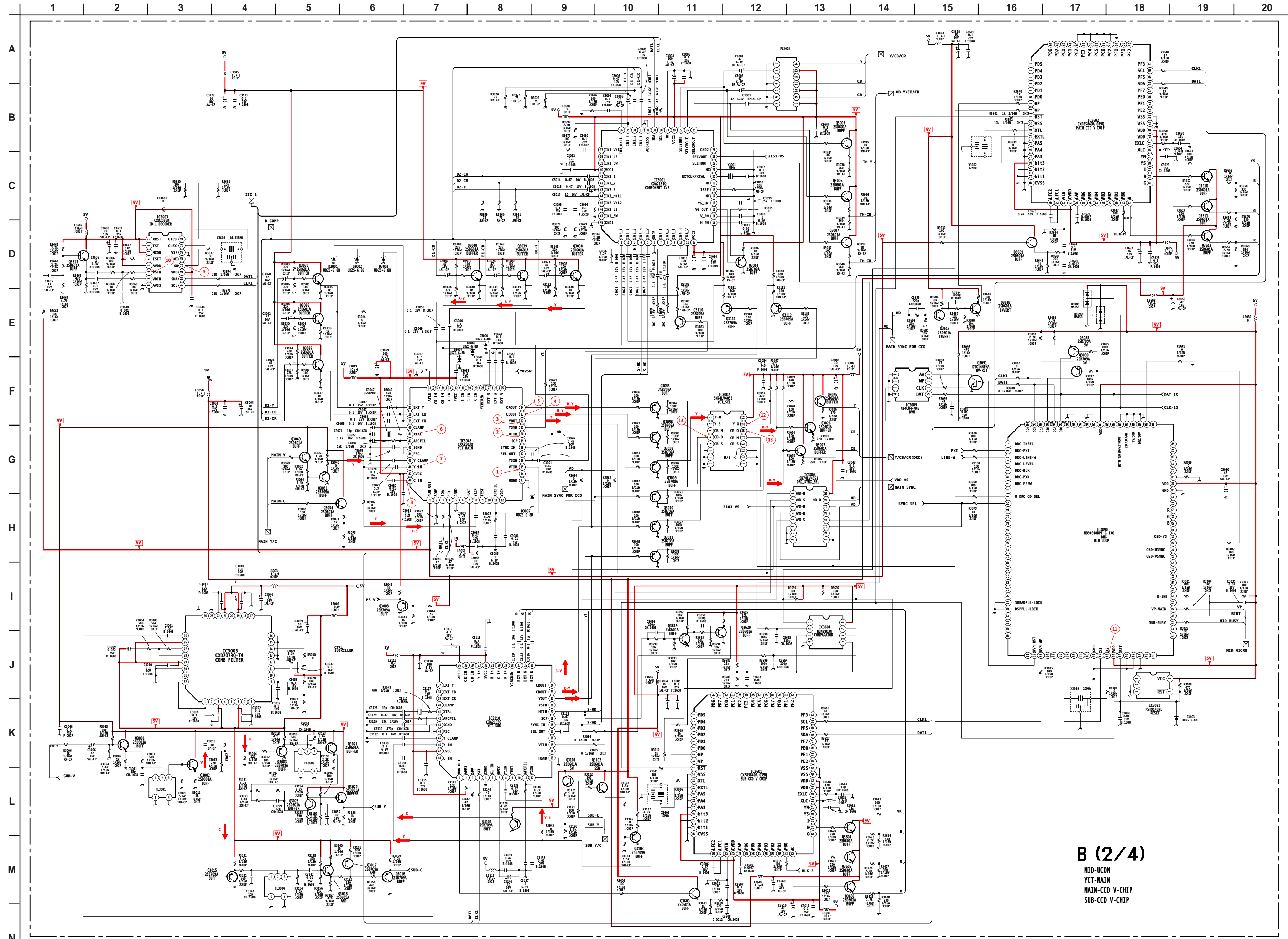
AV-SW1
AUDIO SW

HB BOARD LOCATOR LIST

DIODE	
D4501	C-3
D4502	C-2
D4503	C-2
D4504	B-2
D4505	C-3
D4506	C-3

HB [KEY INPUT, LED, RMC]



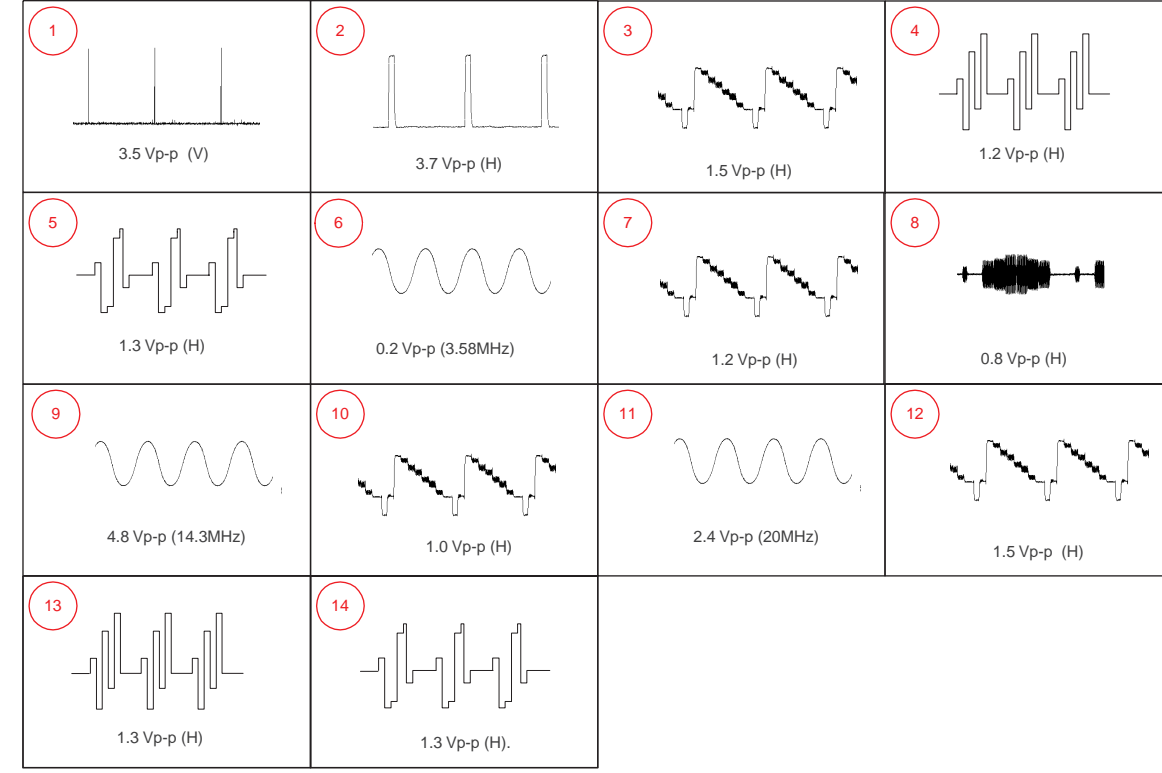


B BOARD IC VOLTAGE LIST

IC3001	33	3.1	IC3003	15	0.5	IC3009	23	NC	57	0	91	NC	16	NC	IC3601	32	0	IC3602	32	0	IC3603	32	0		
pin	volt	34	3.1	pin	volt	pin	volt	24	NC	58	NC	92	NC	17	1.6	pin	volt	33	0	pin	volt	33	0	pin	volt
1	3.2	35	1.0	1	0.6	1	GND	25	GND	59	NC	93	GND	18	2.8	1	NC	34	0	1	NC	34	0	1	4.9
2	3.2	36	2	2	0.5	2	GND	26	GND	60	NC	94	NC	19	NC	2	NC	35	NC	2	NC	35	NC	2	GND
3	3.2	37	3	3	0.5	3	0.0	27	NC	61	NC	95	2.9	20	0.5	3	NC	36	0	3	NC	36	0	3	GND
4	1.3	38	4	4	1.0	4	0.5	28	NC	62	NC	96	0	21	0	4	NC	37	NC	4	NC	37	NC	4	1.4
5	1.0	39	5	5	NC	5	GND	29	0	63	NC	97	2.9	22	6	5	NC	38	2.4	5	NC	38	2.4	5	1.9
6	GND	40	6	6	4.8	6	GND	30	NC	64	NC	98	4.3	23	2.0	6	NC	39	2.4	6	NC	39	2.4	6	1.9
7	NC	41	7	7	0.5	7	GND	31	7	65	2.6	99	2.9	24	1.9	7	0.2	40	4.9	7	0.2	40	4.9	7	1.6
8	NC	42	8	8	0	8	GND	32	8	66	NC	100	4.3	25	3.4	8	0.1	41	4.9	8	0.1	41	4.9	8	GND
9	NC	43	9	9	1.9	9	4.9	25	3.4	67	NC	IC3001	26	3.4	9	4.9	42	GND	9	4.9	42	GND	9	4.6	
10	1.0	44	10	10	2.6	10	4.9	26	3.4	68	NC	pin	volt	27	3.4	10	GND	10	GND	10	GND	10	GND	10	4.6
11	0.9	45	11	11	0.9	11	0	27	3.4	1	0	35	NC	69	NC	11	2.4	44	NC	11	2.4	44	NC	11	4.9
12	4.8	46	12	12	0.3	12	0.3	28	0	2	0	36	NC	70	NC	12	2.1	45	NC	12	2.1	45	NC	12	2.6
13	4.0	47	13	13	0.6	13	0.6	29	NC	3	0	37	NC	71	NC	13	GND	30	NC	13	GND	30	NC	13	2.4
14	4.0	48	14	14	0	14	0.3	30	NC	4	NC	38	NC	72	NC	14	GND	31	NC	14	GND	31	NC	14	GND
15	2.7	IC3002	15	15	0.6	15	0.6	31	NC	5	NC	39	NC	73	NC	15	4.9	32	4.8	15	GND	48	4.6	15	NC
16	2.3	pin	16	16	GND	16	GND	32	4.8	6	NC	40	NC	74	5.0	IC3110	33	NC	16	4.9	49	NC	16	4.9	NC
17	1.0	1	17	17	0	17	0	33	3.4	7	NC	41	0	75	GND	pin	volt	34	NC	17	4.9	50	4.6	17	GND
18	2.8	2	18	18	0	18	0	34	3.1	8	NC	42	0	76	NC	1	1.0	35	NC	18	GND	51	NC	18	GND
19	0	3	19	19	4.9	1	1.7	35	0	9	0	43	5.0	77	NC	2	4.6	36	2.6	19	GND	52	NC	19	GND
20	2.7	4	20	20	NC	2	0.2	36	2.6	10	0	44	0	78	NC	3	4.6	37	NC	20	1.6	53	NC	20	1.7
21	0	5	21	21	4.9	3	4.6	37	3.4	11	NC	45	GND	79	NC	4	4.6	38	NC	21	2.4	54	NC	21	2.5
22	0.3	6	22	22	4	4.6	38	3.1	12	NC	46	GND	80	NC	5	GND	39	NC	22	1.5	55	NC	22	2.5	
23	0	7	23	23	NC	5	GND	39	3.1	13	NC	47	GND	81	NC	6	NC	40	1.7	23	4.9	56	NC	23	4.9
24	0	8	24	24	GND	6	NC	40	1.7	14	NC	48	NC	82	NC	7	4.9	41	1.8	24	0	57	NC	24	GND
25	2.9	9	25	25	2.4	7	4.9	41	1.7	15	NC	49	NC	83	GND	8	2.8	42	2.4	25	NC	58	NC	25	GND
26	2.8	10	26	26	4.8	8	2.8	42	2.4	16	NC	50	NC	84	GND	9	NC	43	0	26	NC	59	NC	26	GND
27	2.2	11	27	27	2.2	9	NC	43	0	17	NC	51	NC	85	GND	10	NC	44	2.4	27	NC	60	NC	27	NC
28	4.8	12	28	28	0	10	NC	44	NC	18	NC	52	NC	86	GND	11	2.4	45	3.4	28	NC	61	NC	28	NC
29	GND	13	29	29	4.8	11	2.3	45	3.1	19	NC	53	0	87	NC	12	NC	46	2.4	29	NC	62	NC	29	NC
30	4.6	14	30	30	GND	12	NC	46	2.8	20	NC	54	NC	88	NC	13	GND	47	4.8	30	NC	63	NC	30	NC
31	4.6	15	31	31	GND	13	GND	47	4.8	21	NC	55	0	89	5.0	14	NC	48	3.1	31	0	64	NC	31	0
32	GND	16	32	32	1.0	14	NC	48	3.1	22	NC	56	NC	90	GND	15	0.5	49	NC	32	0	64	NC	32	0

All voltages are in V.

B (2/4) BOARD WAVEFORMS

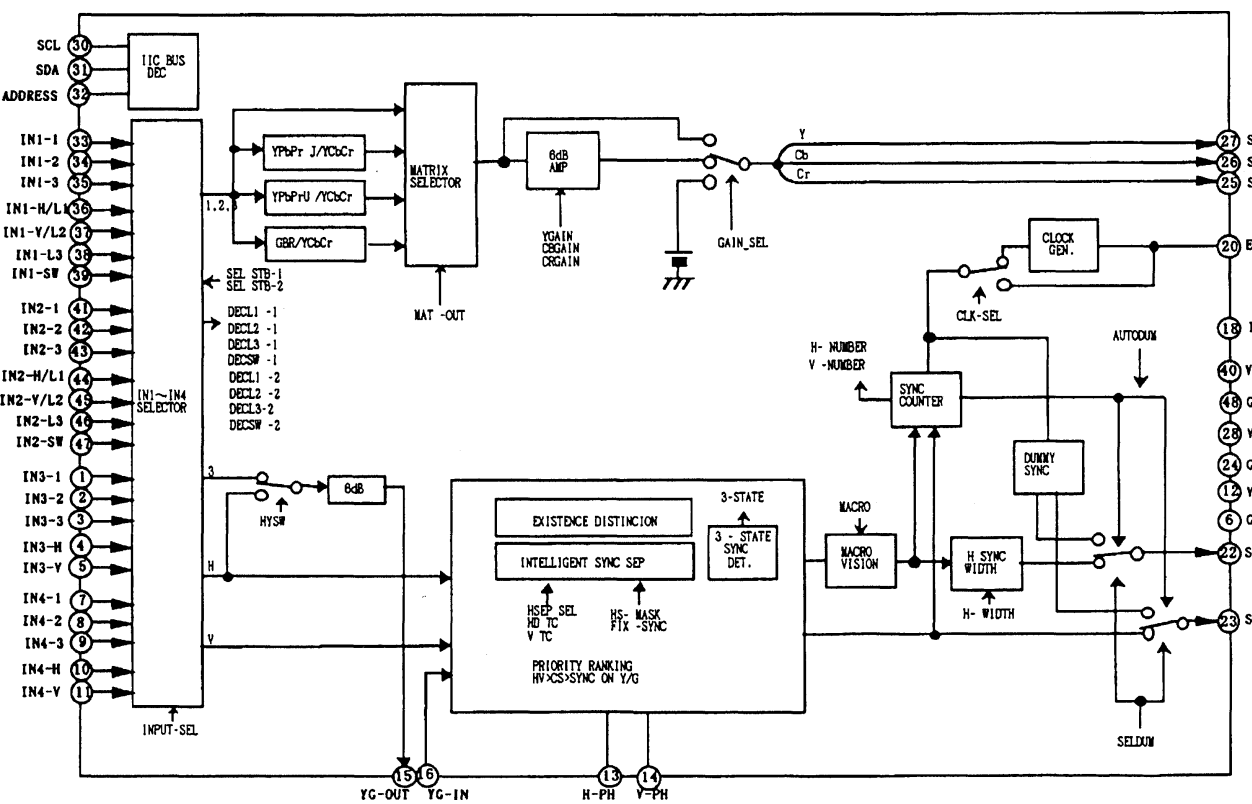


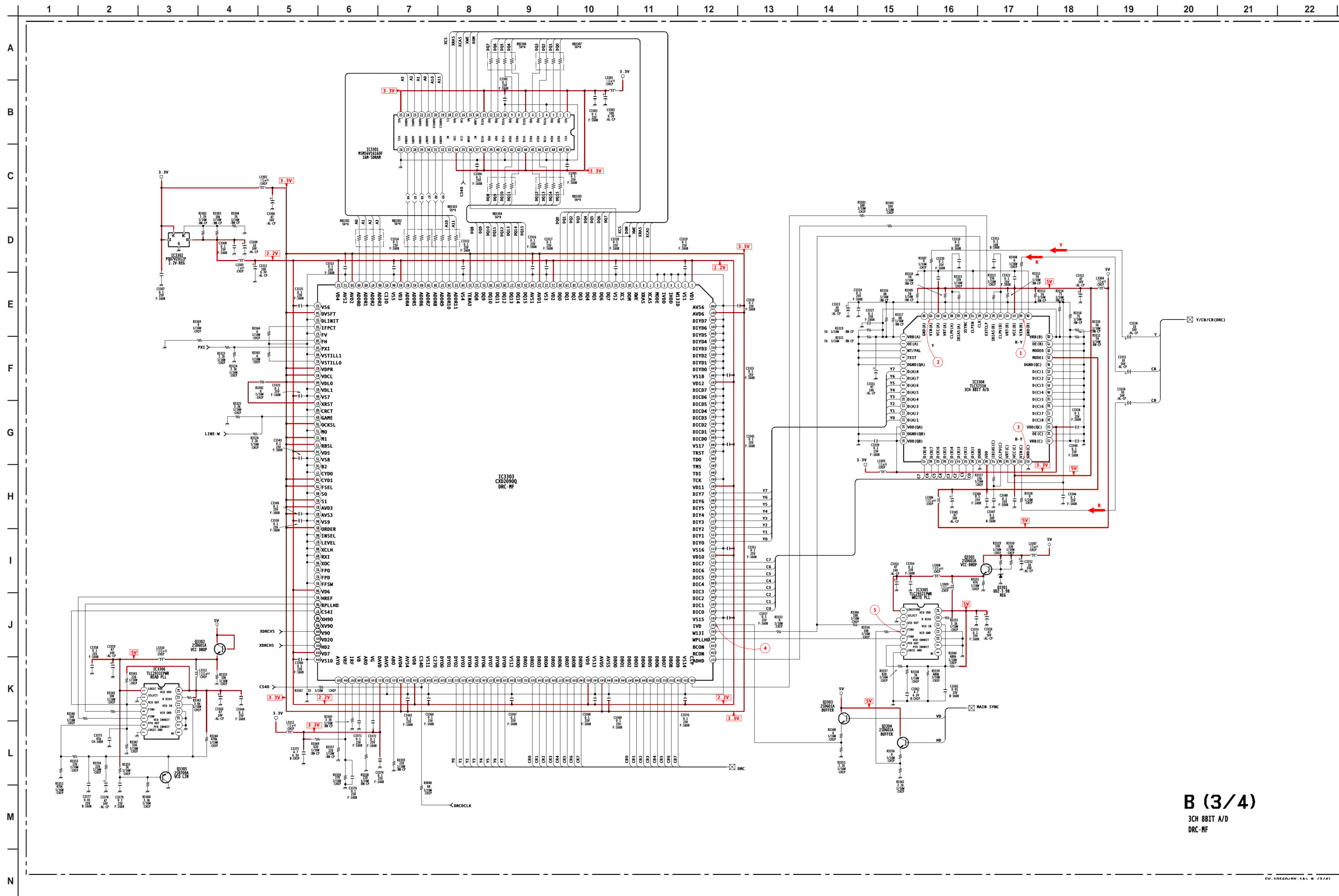
B BOARD TRANSISTOR VOLTAGE LIST

Q3001	4.1	9.0	3.4
Q3002	5.1	9.0	5.7
Q3003	1.8	GND	5.4
Q3005	2.2	4.9	1.6
Q3006	2.9	4.9	2.2
Q3007	2.9	4.8	2.3
Q3008	1.0	GND	1.6
Q3009	2.0	GND	0
Q3010	2.0	GND	0
Q3011	1.2	GND	0
Q3014	2.7	GND	3.3
Q3015	1.0	GND	1.6
Q3016	1.1	GND	1.7
Q3017	4.1	4.8	0.7
Q3018	1.5	4.1	0.9
Q3021	2.9	9.0	0.7
Q3022	7.9	9.0	0
Q3023	0.7	7.9	0.3
Q3025	2.5	5.0	1.4
Q3026	2.7	5.0	1.4
Q3027	2.8	5.0	1.4
Q3035	5.1	9.0	4.3
Q3036	5.1	9.0	4.3
Q3037	5.1	9.0	4.3
Q3038	4.9	9.0	4.1
Q3039	4.9	9.0	4.1
Q3040	4.9	9.0	4.1
Q3049	5.3	8.9	4.7
Q3051	2.3	GND	3.0
Q3053	2.0	GND	2.6
Q3054	5.7	8.9	5.1
Q3056	2.1	GND	2.8
Q3058	1.9	GND	2.5
Q3089	4.1	4.7	4.7
Q3090	4.1	4.7	4.7
Q3091	0	8.9	GND
Q3101	3.7	9.0	3.1
Q3102	2.8	9.0	2.2
Q3103	1.1	GND	1.7
Q3104	1.5	GND	2.1
Q3110	0.8	GND	1.5
Q3111	1.2	GND	1.8
Q3112	1.2	GND	1.8
Q3603	1	4.9	0.3
Q3604	0	9.0	0
Q3605	0	9.0	0
Q3606	0	9.0	0
Q3609	1.9	4.9	1.3
Q3610	0	9.0	0
Q3611	0	9.0	0
Q3612	0	9.0	0
Q3613	3.7	4.9	3.0
Q3617	0.5	4.7	GND
Q3618	0.2	4.7	GND
Q3619	0.5	0.1	GND
Q3620	0.2	0.2	GND

All voltages in V.

B BOARD: IC3001 CXA2151Q



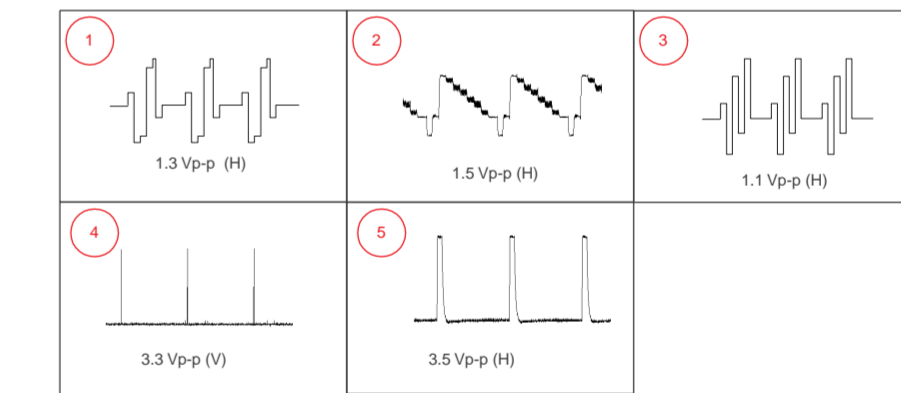


B BOARD IC VOLTAGE LIST

IC3301	IC3302	45	NC	98	NC	151	2.3	204	GND	47	0
pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt
1	3.3	1	3.3	47	0	99	NC	152	2.3	205	GND
2	1.5	G	GND	48	0	100	0	153	2.0	206	GND
3	1.6	O	1.2	49	0	102	0.2	155	GND	208	GND
4	GND	VC	3.3	50	3.3	103	2.2	156	1.6	IC3304	52
5	1.5	NC		51	GND	104	GND	157	3.3	pin	volt
6	1.5			52	2.2	105	0.4	158	NC	1	1.6
7	3.3	pin	volt	53	GND	106	1.0	159	NC	2	0
8	1.9	1	2.2	54	3.3	107	1.0	160	0.8	3	0
9	GND	2	1.9	55	GND	108	1.0	161	0.9	4	0
10	1.8	3	GND	56	0	109	0.5	162	0	5	0
11	1.2	4	GND	57	GND	110	2.2	163	GND	6	1.2
12	3.3	5	GND	58	GND	111	3.3	164	1.4	7	1.2
13	0.5	6	GND	59	0	112	GND	165	1.9	8	0
14	3.2	7	1.9	60	GND	113	0.5	166	1.8	9	1.9
15	3.2	8	2.0	61	0	114	3.3	167	1.9	10	0.1
16	3.2	9	2.0	62	3.3	115	GND	168	1.9	11	0.8
17	3.2	10	0.3	63	3.3	116	2.2	169	1.9	12	2.0
18	3.2	11	1.9	64	3.3	117	0	170	1.9	13	1.6
19	0	12	GND	65	GND	118	GND	171	1.3	14	3.3
20	0	13	0.6	66	GND	119	NC	172	2.2	15	0
21	0	14	1.0	67	3.3	120	NC	173	GND	16	3.3
22	0	15	1.9	68	GND	121	NC	174	1.5	17	0
23	0	16	1.3	69	0	122	1.4	175	1.6	18	3.2
24	0	17	1.0	70	3.3	123	1.3	176	1.3	19	3.2
25	3.3	18	1.0	71	GND	124	1.4	177	1.0	20	3.2
26	GND	19	1.2	72	3.3	125	1.4	178	2.3	21	3.2
27	0	20	1.0	73	3.3	126	1.0	179	0.7	22	3.2
28	0	21	1.2	74	2.2	127	0.9	180	1.6	23	2.0
29	0	22	GND	75	GND	128	1.1	181	0.8	24	1.1
30	0	23	3.3	76	GND	129	0.9	182	2.2	25	GND
31	0	24	GND	77	GND	130	GND	183	GND	26	4.8
32	0	25	0.8	78	3.3	131	NC	184	NC	27	2.4
33	NC	26	0.8	79	3.3	132	NC	185	NC	28	2.4
34	3.3	27	0.6	80	GND	133	1.6	186	NC	29	3.2
35	1.7	28	1.2	81	3.3	134	1.6	187	GND	30	4.8
36	0.5	29	0.7	82	3.3	135	2.2	188	GND	31	2.4
37	NC	30	0.9	83	GND	136	2.2	189	GND	32	GND
38	3.3	31	1.0	84	GND	137	2.2	190	GND	33	1.5
39	1.6	32	0.9	85	3.3	138	2.1	191	GND	34	0
40	1.6	33	3.3	86	GND	139	2.2	192	GND	35	3.3
41	GND	34	GND	87	GND	140	1.1	193	GND	36	NC
42	1.5	35	0	88	GND	141	2.2	194	GND	37	NC
43	1.5	36	0	89	GND	142	GND	195	GND	38	0
44	3.3	37	0	90	GND	143	3.3	196	GND	39	0
45	1.8	38	0	91	NC	144	GND	197	2.2	40	0
46	2.0	39	0	92	NC	145	NC	198	GND	41	0
47	GND	40	0	93	GND	146	NC	199	GND	42	0
48	1.7	41	0	94	2.2	147	1.6	200	GND	43	0
49	1.2	42	0	95	1.0	148	1.6	201	GND	44	0
50	GND	43	2.2	96	2.0	149	2.2	202	GND	45	4.9
		44	GND	97	1.3	150	2.4	203	GND	46	0

All voltages are in V

B (3/4) BOARD WAVEFORMS

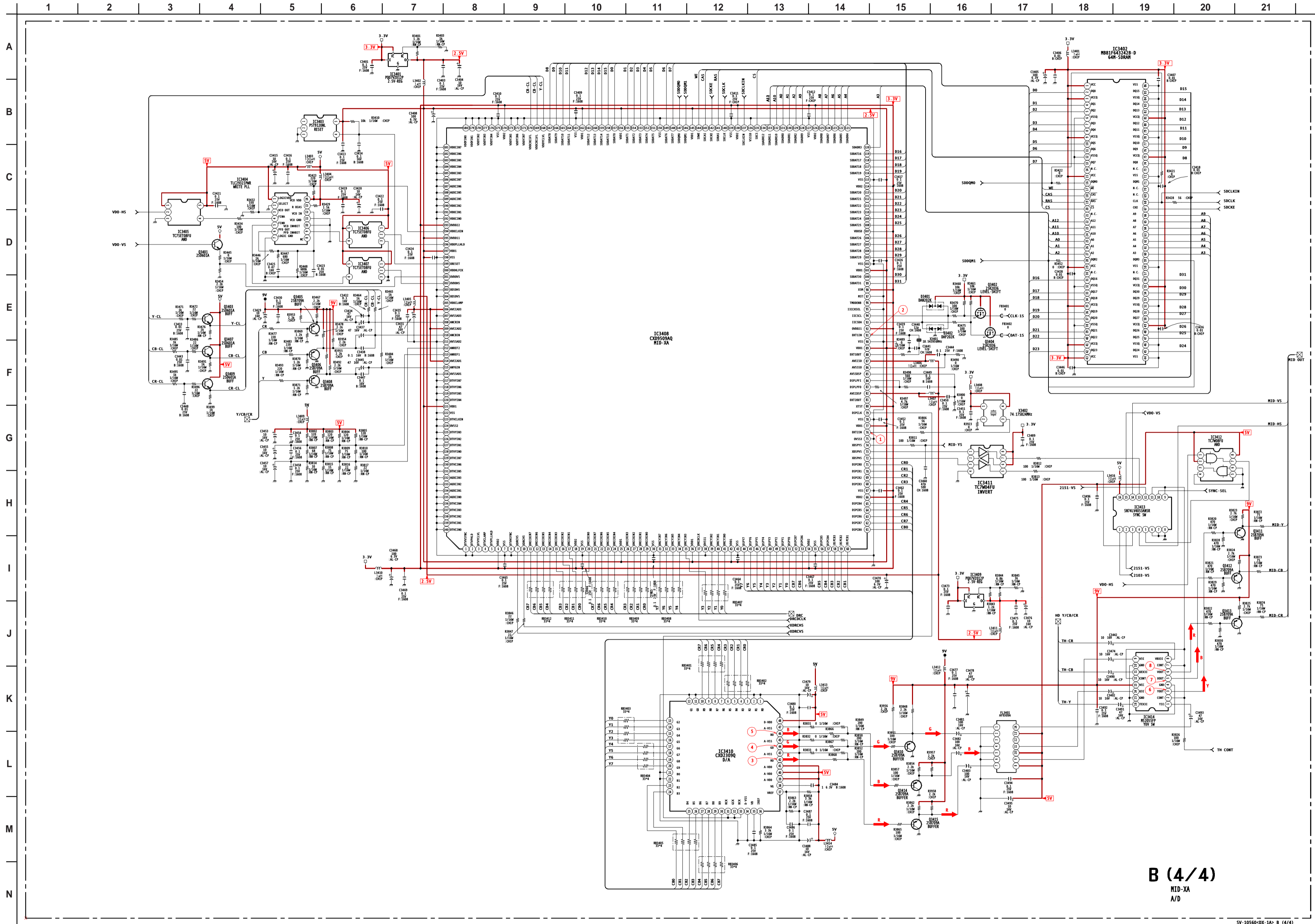


B BOARD TRANSISTOR VOLTAGE LIST

Q3301	B	C	E
Q3301	3.9	4.9	3.4
Q3302	4.9	4.9	3.4
Q3303	0.5	4.9	0.1
Q3304	0.5	4.9	0.2
Q3305	3.2	GND	2.3

All voltages in V.

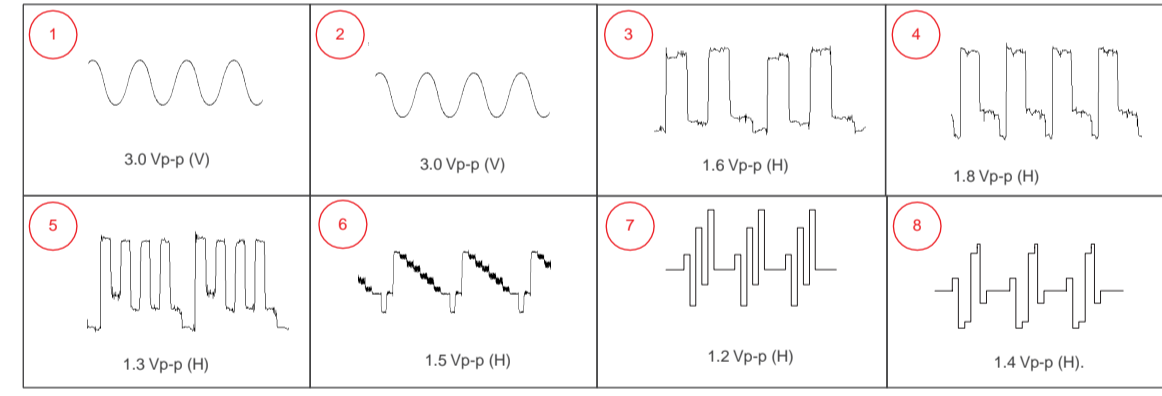
**B (3/4)
3CH 8BIT A/D
DRC-MF**



B BOARD IC VOLTAGE LIST

IC3401	43	3.3	IC3404	13	0	64	0.8	115	GND	166	1.3	217	GND	19	1.0	IC3413			
pin	volt	44	GND	pin	volt	14	0	65	0.9	116	1.6	167	1.8	218	GND	20	0.8	pin	volt
I	3.3	45	1.7	1	4.8	15	0	66	3.3	117	1.3	168	0.9	219	GND	21	GND	1	GND
G	GND	46	GND	2	GND	16	2.3	67	GND	118	1.6	169	1.1	220	GND	22	GND	2	GND
O	1.2	47	1.7	3	2.3	17	1.6	68	0.8	119	1.7	170	1.1	221	1.2	23	1.4	3	0.1
V _C	3.3	48	1.4	4	0.3	18	3.3	69	0.8	120	0	171	GND	222	GND	24	1.5	4	0.1
NC	3.3	49	3.3	5	2.4	19	GND	70	2.4	121	2.4	172	GND	223	GND	25	1.5	5	0.3
pin	volt	50	1.0	6	0.9	20	0.6	71	0.9	122	2.2	173	GND	224	GND	26	1.5	6	GND
IC3402	51	1.6	7	GND	21	1.1	72	3.2	123	1.7	174	3.3	225	GND	27	1.5	7	GND	
1	3.3	52	GND	8	NC	22	2.2	73	3.2	124	1.7	175	GND	226	GND	28	1.5	8	GND
2	1.8	53	0.9	9	0	23	2.2	74	0.9	125	1.8	176	GND	227	GND	29	1.5	9	5.0
3	3.3	54	0.9	10	GND	24	2.4	75	GND	126	3.3	177	GND	228	GND	30	1.9	10	5.0
4	1.3	55	3.3	11	GND	25	2.4	76	3.3	127	GND	178	GND	229	GND	31	1.6	11	5.0
5	0.9	56	1.1	12	0.9	26	2.3	77	2.5	128	0.1	179	GND	230	GND	32	1.7	12	0
6	GND	57	3.6	13	2.2	27	2.2	78	GND	129	0.1	180	GND	231	GND	33	1.6	13	0
7	2.4	58	NC	14	4.8	28	1.6	79	1.7	130	2.3	181	GND	232	GND	34	GND	14	0
8	2.2	59	2.4	15	NC	29	0.9	80	3.3	131	0.1	182	GND	233	GND	35	1.0	15	GND
9	3.3	60	0	16	NC	30	GND	81	NC	132	0.1	183	GND	234	GND	36	0	16	4.9
10	0.9	61	2.4	1	4.8	31	1.1	82	2.5	133	1.7	184	GND	235	GND	37	2.0	17	4.6
11	2.8	62	2.2	2	0.3	32	1.0	83	2.3	134	1.7	185	GND	236	GND	38	2.6	pin	volt
12	GND	63	1.7	3	GND	33	1.5	84	0.4	135	2.8	186	GND	237	GND	39	4.8	1	4.6
13	0.9	64	1.7	4	0.3	34	1.4	85	0	136	GND	187	GND	238	GND	40	4.8	2	5.0
14	NC	65	1.8	5	4.8	35	1.4	86	0	137	1.6	188	GND	239	GND	41	4.8	3	3.1
15	3.3	66	0.1	IC3406	36	2.4	87	2.3	138	3.3	189	GND	240	GND	42	1.0	4	GND	
16	0.1	67	2.3	pin	volt	37	1.8	88	1.6	139	GND	190	GND	43	0	5	3.1		
17	3.1	68	1.8	IC3407	38	GND	89	2.5	140	1.5	191	GND	pin	volt	44	0.5	6	3.1	
18	2.9	69	NC	2	0	39	1.4	90	GND	141	0	192	GND	1	3.3	45	0	7	5.0
19	3.3	70	NC	3	GND	40	1.4	91	1.2	142	2.6	193	3.3	G	3.3	46	0	8	4.6
20	2.8	71	0.1	4	0	41	1.5	92	3.3	143	3.0	194	2.4	G	2.5	47	0	9	4.6
21	NC	72	GND	5	4.8	42	2.4	93	3.0	144	3.1	195	2.4	VC	1.2	48	4.8	10	GND
22	1.7	73	NC	IC3407	43	GND	94	3.0	145	2.5	196	0	NC	0	NC	0	49	11	4.6
23	1.7	74	1.8	pin	volt	44	0.8	95	GND	146	0	197	2.4	IC3410	pin	volt	12	5.0	
24	0.1	75	3.3	1	4.8	45	1.0	96	3.3	147	0	198	GND	pin	volt	1	3.2	13	8.9
25	0.1	76	1.3	2	1.0	46	0.7	97	GND	148	0.3	199	GND	2	NC	14	4.6		
26	2.3	77	0.7	3	GND	47	2.4	98	3.3	149	2.8	200	NC	2	GND	4	3.2	15	GND
27	0.1	78	GND	4	2.4	48	0.9	99	1.1	150	GND	201	0	3	0.9	4	GND	16	4.6
28	2.4	79	2.5	5	4.8	49	1.0	100	0.9	151	0.9	202	1.0	4	0.9	5	0.0		
29	3.3	80	0.7	IC3408	50	1.1	101	2.5	152	2.2	203	GND	5	0.6	6	3.3			
30	NC	81	3.3	pin	volt	51	1.2	102	GND	153	2.4	204	GND	6	0.8	7	0		
31	1.7	82	1.0	1	GND	52	1.9	103	0.9	154	0.7	205	NC	7	0.9	8	3.3		
32	GND	83	2.8	2	GND	53	1.4	104	1.6	155	1.3	206	2.4	8	0.8				
33	1.6	84	GND	3	NC	54	3.3	105	1.0	156	2.5	207	GND	9	0.9				
34	1.3	85	1.1	4	NC	55	GND	106	1.4	157	1.8	208	GND	10	2.4				
35	3.3	86	GND	5	NC	56	1.6	107	3.3	158	1.1	209	2.4	11	GND				
36	1.6	IC3403	6	3.3	57	1.6	108	1.7	159	2.8	210	1.0	12	GND					
37	1.7	pin	volt	7	GND	58	1.5	109	1.7	160	1.6	211	GND	13	1.2				
38	GND	1	NC	8	GND	59	1.5	110	1.1	161	0.7	212	GND	14	1.1				
39	0.9	2	GND	9	0	60	1.5	111	1.7	162	2.5	213	GND	15	1.0				
40	1.7	3	GND	10	0.2	61	1.4	112	0.9	163	GND	214	2.4	16	0.9				
41	3.3	4	1.7	11	0	62	2.4	113	1.7	164	2.5	215	1.0	17	2.4				
42	1.1	5	2.5	12	0	63	0.9	114	3.3	165	0.7	216	GND	18	0.7				

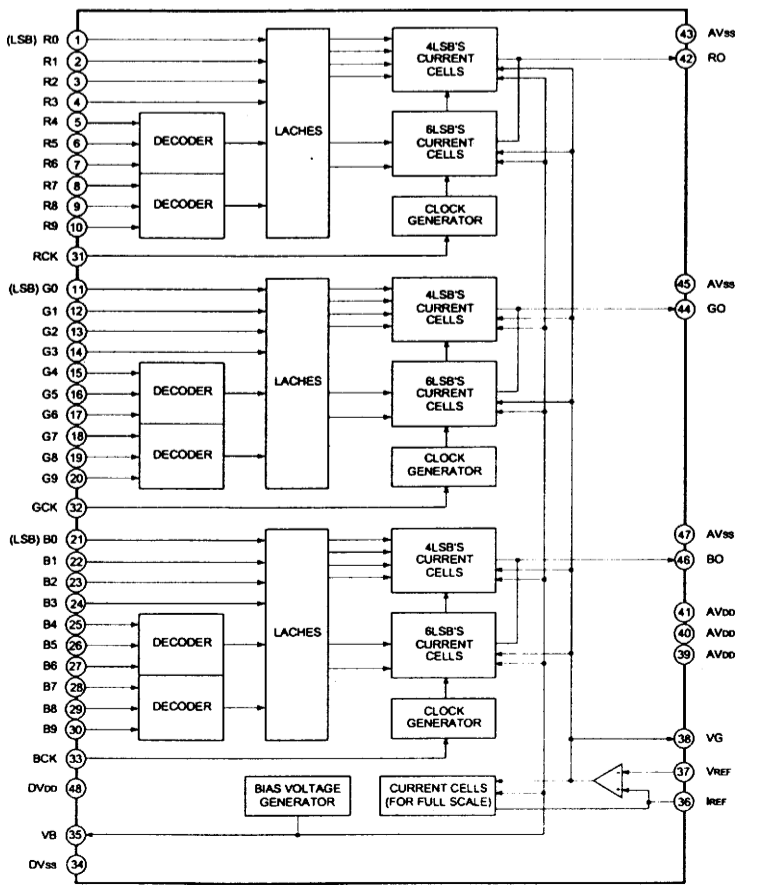
B (4/4) BOARD WAVEFORMS



B BOARD TRANSISTOR VOLTAGE LIST

Q3401	0	4.9	0
Q3402	3.3	4.6	3.1
Q3403	1.0	4.9	0.5
Q3404	3.3	4.6	3.1
Q3405	2.3	GND	3.0
Q3406	2.3	GND	3.0
Q3407	1.7	4.9	1.2
Q3408	2.3	GND	3.0
Q3409	1.7	4.9	1.2
Q3410	0.5	GND	1.2
Q3411	1.5	GND	2.2
Q3412	1.5	GND	2.2
Q3413	1.5	GND	2.2
Q3414	0.8	GND	1.5
Q3415	1.4	GND	2.0

B BOARD: IC2309Q



B (4/4) MID-XA A/D

D BOARD (*) MARK LIST

REF NO	LOC	KV-32XBR400	KV-36XBR400	KV-38DRC1C
C6584	C-4	0.047 125V	0.047 125V	0.047 300V
D6509	D-8	ERC04-06SE	ERC04-06SE	#
D6510	D-8	ERC04-06SE	ERC04-06SE	#
JW6503	D-7	7.5MM	7.5MM	#
JW6504	D-7	7.5MM	7.5MM	#

#: Not Mounted

D BOARD IC VOLTAGE LIST

IC6501		IC6503	
pin	volt	pin	volt
1	2.5	1	134.0
2	1.8	2	NC
3	2.2	3	2.5
4	2.5	4	11.8
5	GND	5	GND
6	0.0	IC6505	
7	4.0	pin	volt
8	17.2	1	134.9
9	GND	2	15.7
10	10.4	3	GND
11	0.0	All voltages are in V	
12	4.6		
13	NC		
14	163.6		
15	153.5		
16	157.6		
17	NC		
18	1.7		

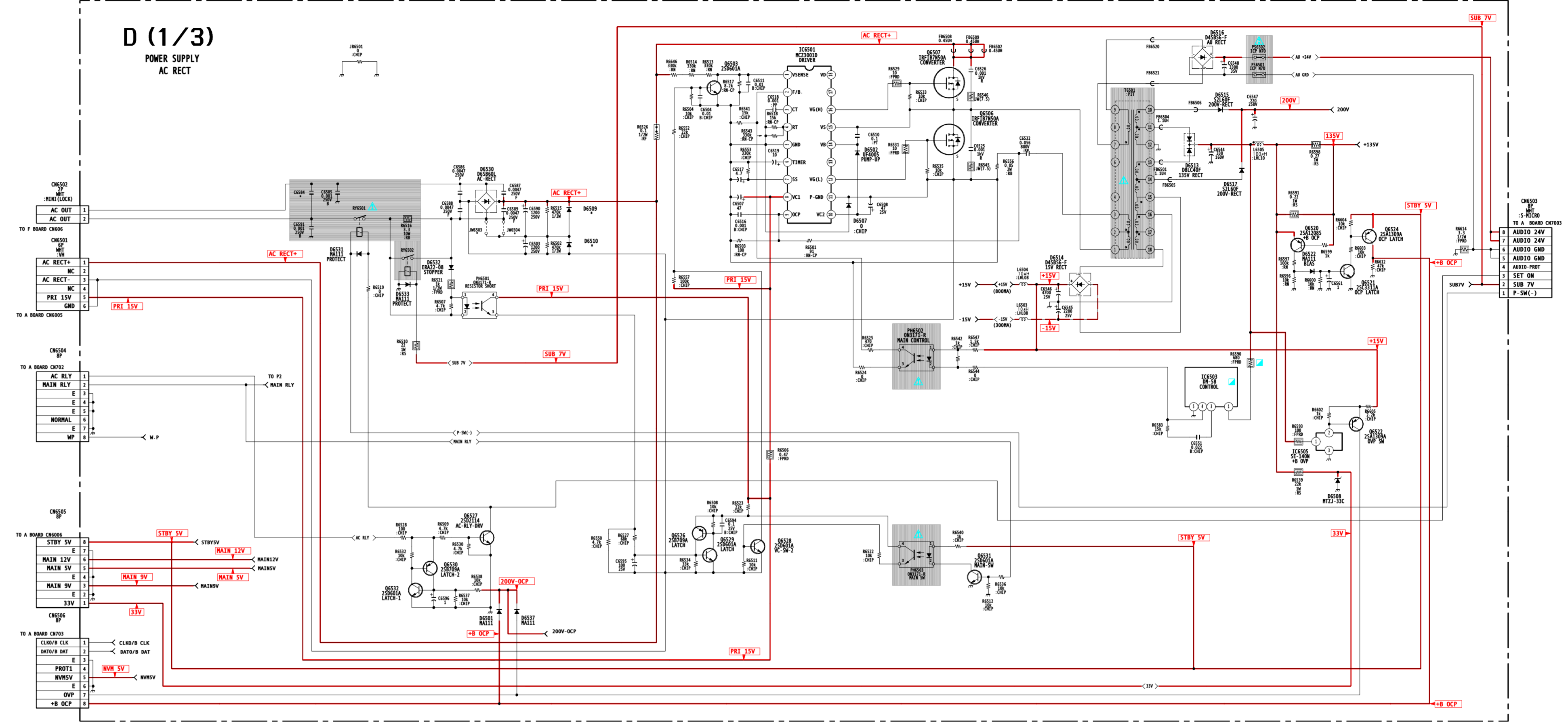
D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q6503	0	2.5	0
Q6520	131.0	0	132.0
Q6521	0	2.1	GND
Q6522	15.7	GND	15.7
Q6524	2.1	0.4	4.9
Q6526	5.9	0	5.9
Q6527	0.8	0	0
Q6528	0.6	0	0
Q6529	0	5.9	0
Q6530	4.7	0	4.7
Q6531	0.6	0	GND
Q6532	0	4.7	GND

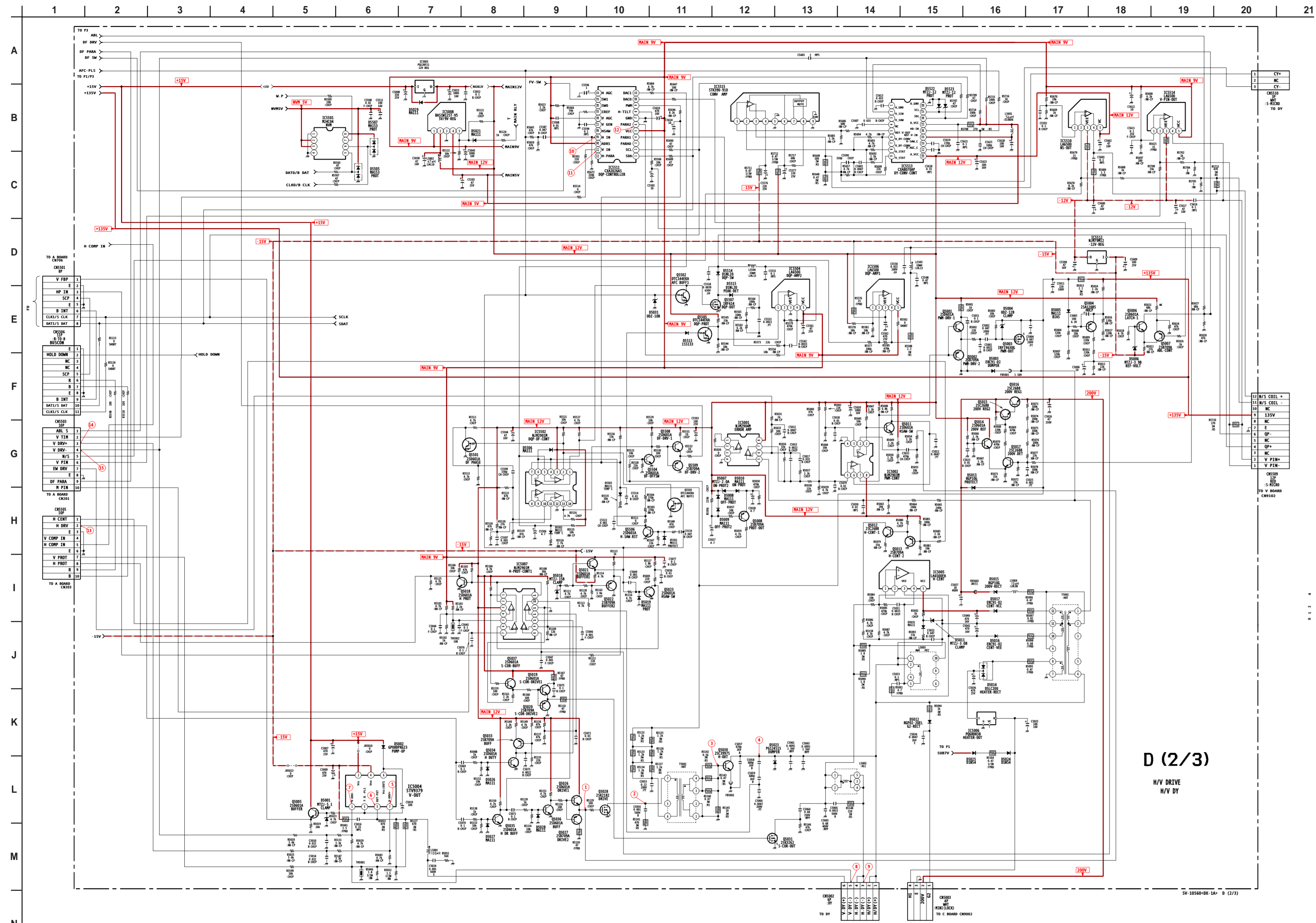
	D	G	S
Q6506	4.7	149.2	0
Q6507	154.4	303.3	150.0

All voltages in V.

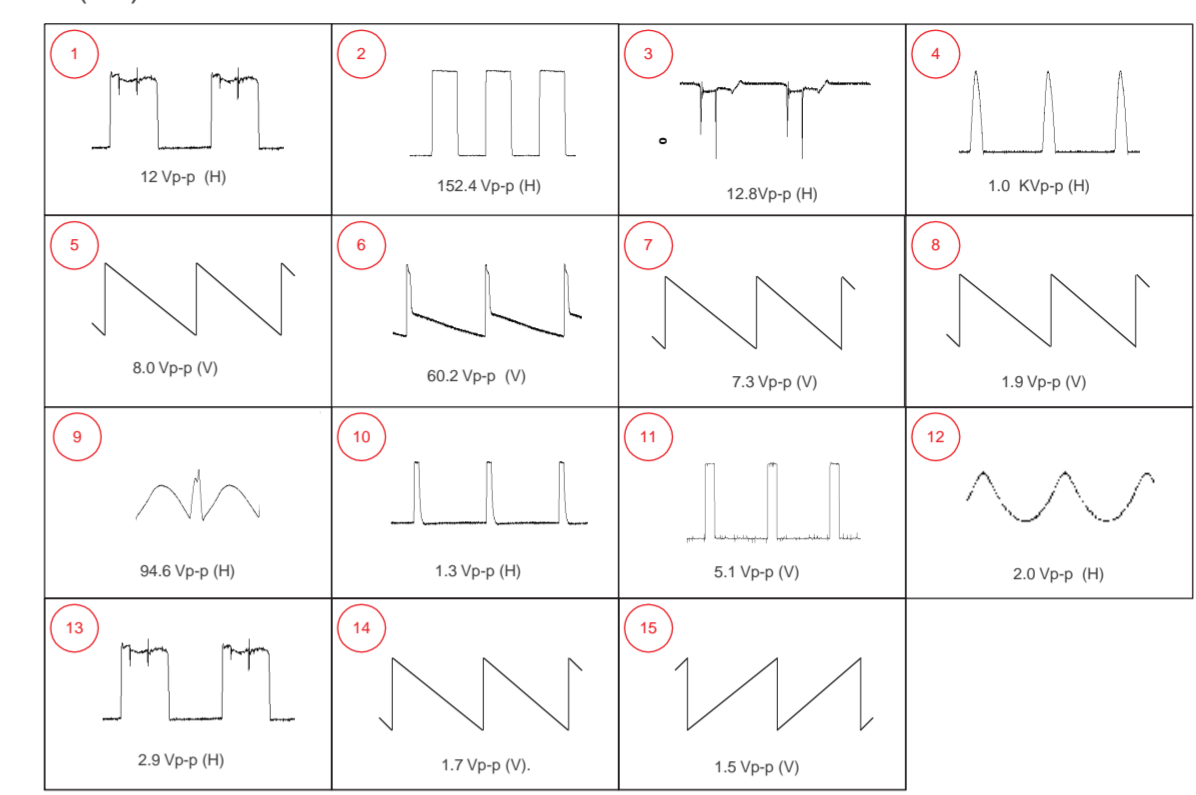
D (1/3) POWER SUPPLY AC RECT



SV-10560-0X-1A* D (1/3)



D (2/3) BOARD WAVEFORMS



D BOARD TRANSISTOR VOLTAGE LIST

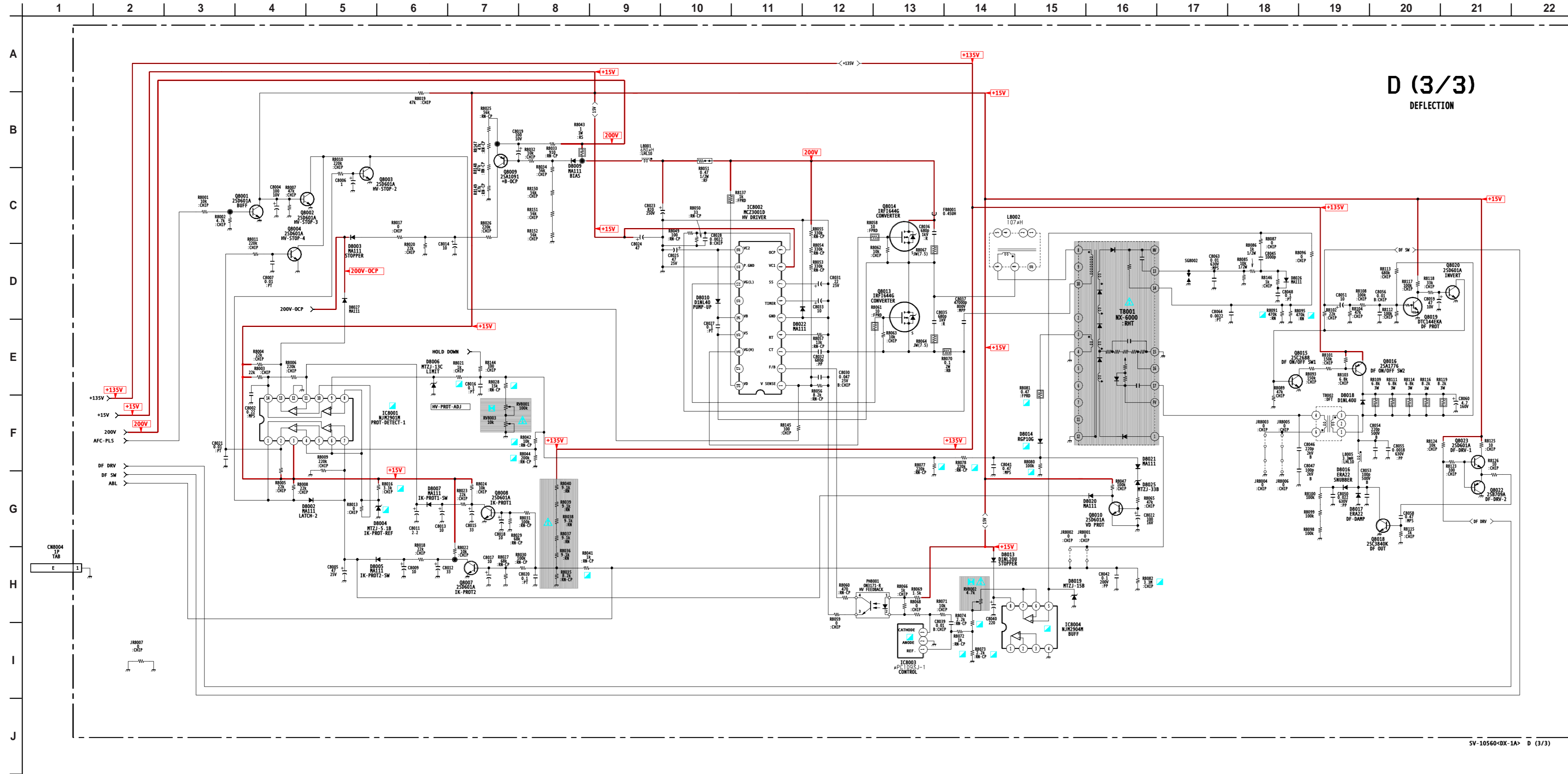
Q5001	B	C	E
Q5001	2.9	12.0	3.3
Q5002	2.9	GND	3.3
Q5003	127.4	134.1	23.3
Q5004	132.0	0	133.0
Q5005	-0.5	15.6	0.1
Q5006	-12.0	1.0	-12.6
Q5007	4.4	-12.6	4.8
Q5008	11.9	0	10.7
Q5011	0.1	3.9	GND
Q5012	3.7	97.7	3.2
Q5013	3.1	GND	3.7
Q5014	6.6	12.1	6.1
Q5015	202.8	212.4	203.2
Q5016	203.2	212.4	202.6
Q5017	6.5	164.8	6.1
Q5018	0.6	1.9	GND
Q5019	3.7	12.1	2.9
Q5020	3.7	GND	2.9
Q5021	0.4	9.0	0.5
Q5022	0.4	GND	1.1
Q5023	0.4	3.9	GND
Q5026	5.2	12.1	5.2
Q5027	5.2	0	5.2
Q5030	132.0	0	GND
Q5033	10.0	1.4	10.5
Q5034	0	1.4	GND
Q5035	0	2.5	GND
Q5036	0.1	5.2	GND
Q5037	3.1	12.1	GND
Q5501	2.4	12.1	3.7
Q5502	0.5	5.4	GND
Q5503	0.5	2.4	GND
Q5504	0	4.0	GND
Q5505	0	4.2	GND
Q5506	0.3	3.6	GND
Q5508	4.0	12.1	4.6
Q5509	4.0	GND	4.6

D BOARD IC VOLTAGE LIST

IC5001		IC5004		IC5007		IC5501		IC5504		IC5511		IC5512		IC5514	
pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt
1	11.0	1	1.2	1	3.1	1	GND	1	4.2	1	4.6	1	-15.3	1	0.3
2	11.0	2	15.6	2	0.6	2	5.0	2	4.2	2	4.6	G	GND	2	0.3
3	1.7	3	-12.6	3	12.1	3	5.0	3	GND	3	4.0	O	-12.0	3	-12.0
4	GND	4	-14.5	4	1.5	4	GND	4	5.5	4	4.2	IC5513	4	0.7	
5	4.0	5	0.2	5	2.3	5	4.6	5	9.0	5	9.0	pin	volt	5	9.0
6	4.0	6	16.2	6	3.9	6	4.6	IC5506	6	4.2	1	4.5	IC5515	6	2.7
7	5.9	7	1.2	7	2.8	7	5.0	pin	volt	7	GND	2	4.9	pin	volt
8	12.1	8	0.0	8	5.0	8	5.0	1	4.3	8	4.2	3	4.9	1	3.4
IC5002	pin	volt	9	3.0	IC5502	2	4.3	9	1.9	4	4.6	2	3.4		
pin	volt	1	100.0	10	1.4	pin	volt	3	-15.5	10	4.4	5	5.0	3	-9.6
1	0.1	2	99.7	11	6.1	1	5.4	4	4.4	11	4.4	6	5.0	4	-15.3
2	6.0	3	95.3	12	GND	2	2.4	5	9.0	12	6.4	7	NC	5	GND
3	3.8	4	100.0	13	2.5	3	12.1	IC5510	13	NC	8	5.0	6	12.0	
4	GND	5	104.6	14	0.6	4	3.6	pin	volt	14	8.2	9	5.0	7	-14.0
5	2.3	IC5006	IC5008	5	3.4	1	0.6	15	1.9	10	12.1	8	2.7		
6	3.7	pin	volt	6	3.4	2	0.6	16	4.0	11	4.0	9	GND		
7	2.9	I	7.8	1	9.1	7	3.9	3	-11.9	17	4.9	12	5.0		
8	12.1	G	GND	2	12.0	8	1.0	4	2.4	18	NC	13	5.0		
IC5003	O	6.3	3	GND	9	1.0	5	12.1	19	3.6	14	0.5			
pin	volt	VCC	2.7	4	5.0	10	0.0	20	9.0	15	1.1				
I	15.6			11	0.0			21	0.9	16	4.6				
G	GND			12	GND			12	GND	17	4.6				
O	12.1			13	3.7			22	3.4	17	4.6				
				14	0			18	GND						

	D	G	S
Q5028	5.2	33.5	0
Q5031	2.9	12.6	GND
Q5507	5.4	6.9	GND

All voltages in V.



D BOARD TRANSISTOR VOLTAGE LIST

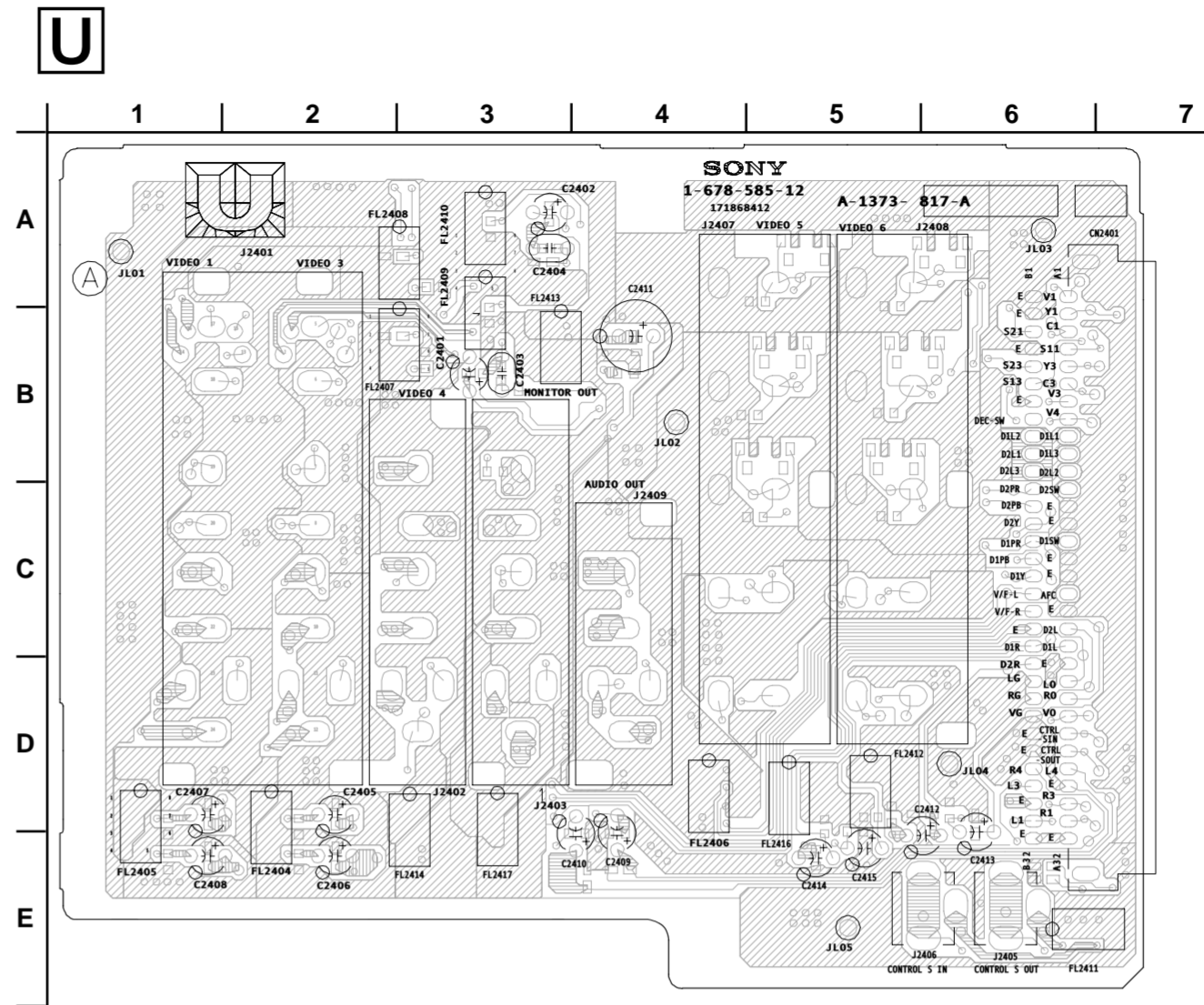
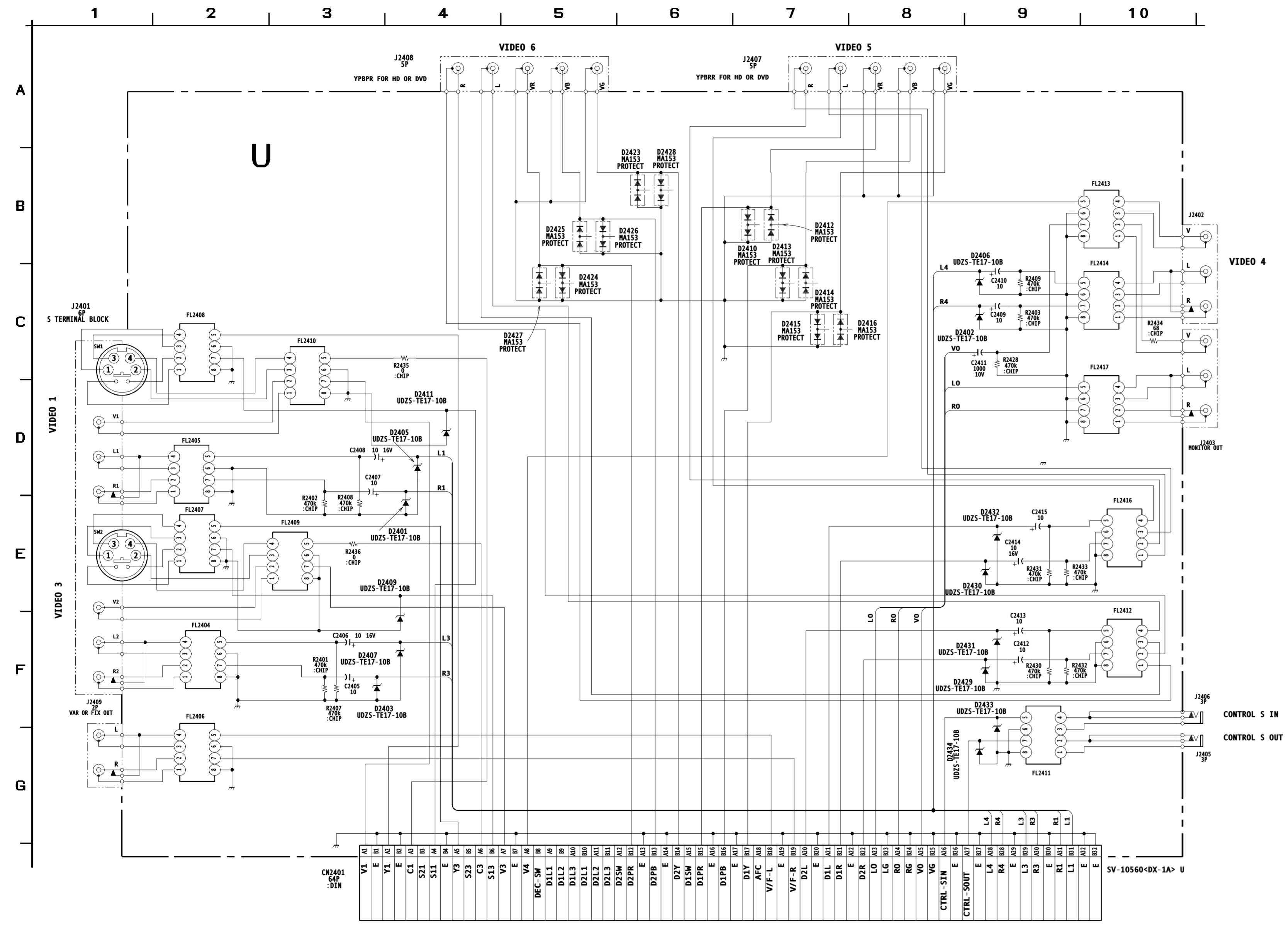
	B	C	E
Q8001	0.1	0	GND
Q8002	0	1.6	GND
Q8003	0.2	1.6	GND
Q8004	0	1.6	GND
Q8007	0.6	0	GND
Q8008	0.6	0	GND
Q8009	196.0	0	196.0
Q8010	2.1	0	GND
Q8015	0.5	0	GND
Q8016	134.5	134.7	135.1
Q8018	-5.5	94.4	GND
Q8019	3.5	0	GND
Q8020	0	0.5	GND
Q8022	4.6	GND	4.9
Q8023	4.6	15.5	4.9

	D	G	S
Q8013	4.6	94.8	GND
Q8014	99.0	198.0	93.2

All voltages in V.

D BOARD IC VOLTAGE LIST

IC8001		IC8002		IC8003	
pin	volt	pin	volt	pin	volt
1	0.1	1	1.6	1	2.4
2	0	2	1.8	2	GND
3	15.6	3	2.2	3	11.0
4	5.0	4	2.5	IC8004	
5	0	5	GND	pin	volt
6	5.0	6	0	1	14.0
7	0	7	4.7	2	0.9
8	5.0	8	15.6	3	0.9
9	4.2	9	0	4	GND
10	5.0	10	10.4	5	7.1
11	0.1	11	GND	6	7.1
12	GND	12	4.5	7	7.1
13	0.1	13	NC	8	15.2
14	0.1	14	104.8	All voltages are in V.	
		15	94.8		
		16	99.0		
		17	NC		
		18	198.0		

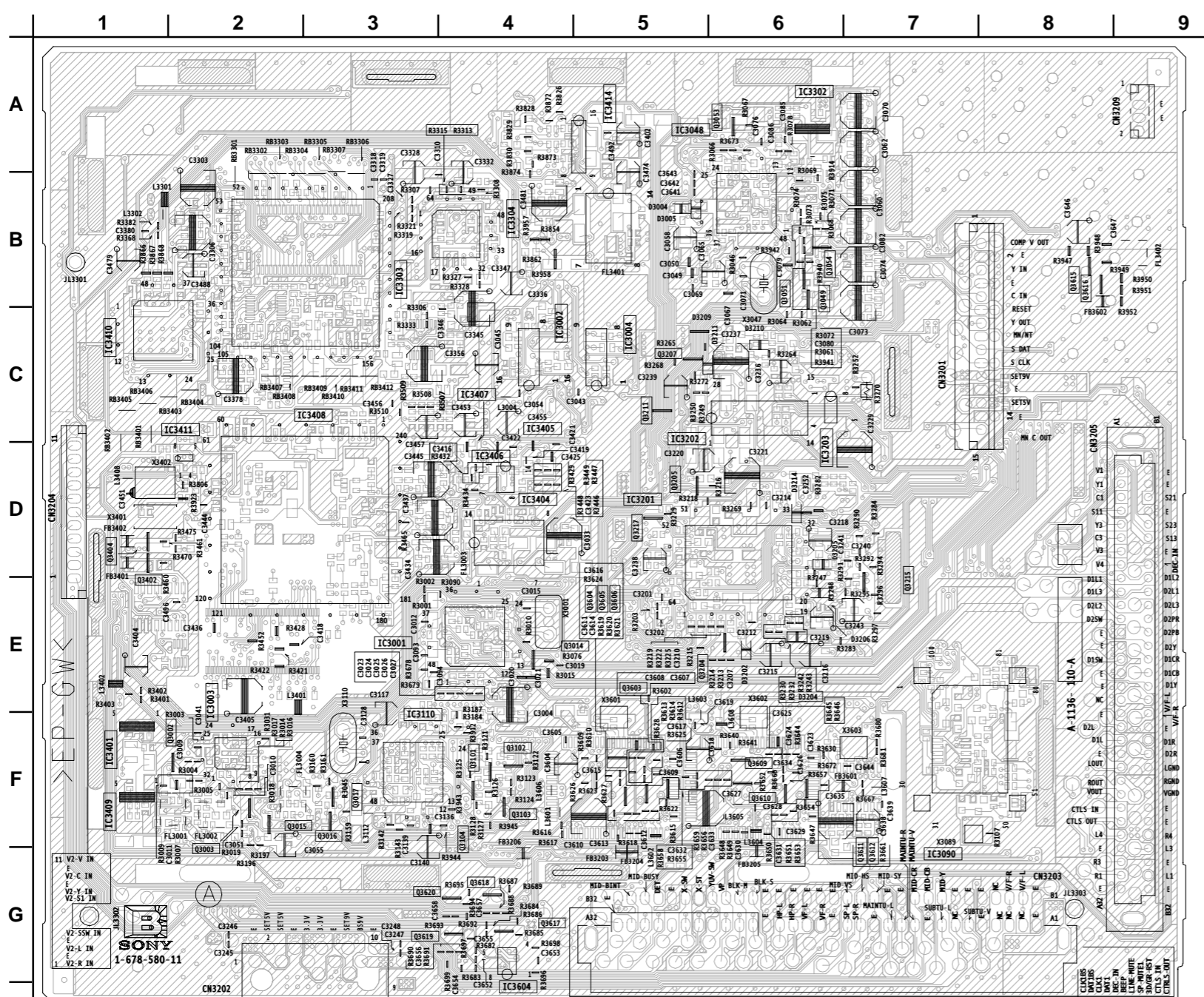


U BOARD LOCATOR LIST

DIODE	
D2401	D-6
D2402	E-4
D2403	D-5
D2405	D-6
D2406	D-4
D2407	D-5
D2408	B-5
D2410	B-3
D2411	A-5
D2412	B-2
D2413	B-3
D2414	B-2
D2415	A-3
D2416	A-2
D2423	A-1
D2424	B-2
D2425	B-2
D2426	B-2
D2427	B-2
D2428	A-2
D2429	D-2
D2430	D-3
D2431	D-2
D2432	D-2
D2433	E-1
D2434	E-1

B [AV-SW1, AUDIO SW, MID-UCOM, YCT-MAIN, MAIN-CCD V-CHIP, SUB-CCD V-CHIP, 3CH 8 BIT A/D, DRC-MF, MID-XA, A/D]

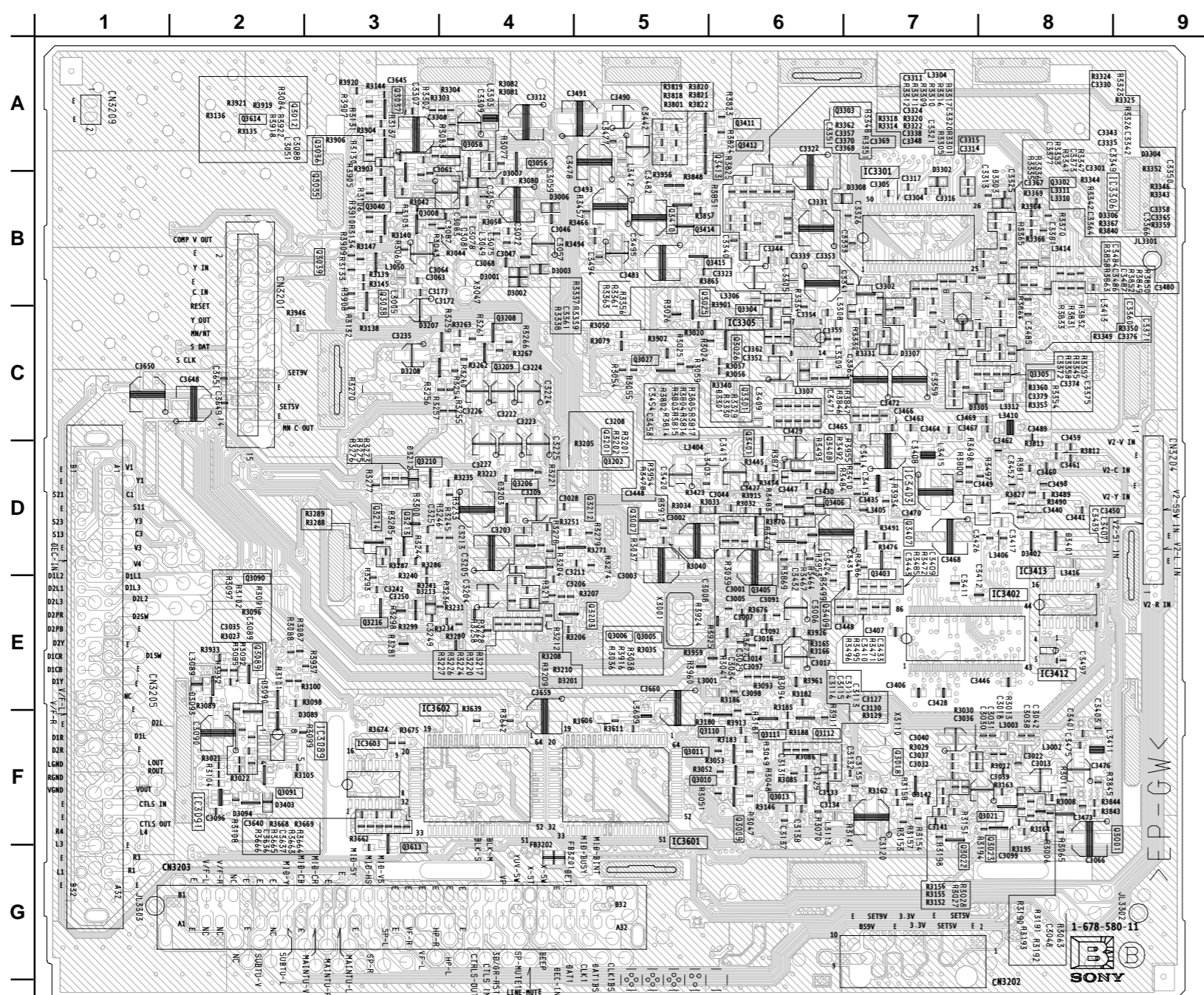
COMPONENT SIDE



B BOARD LOCATOR LIST

	DIODE		TRANSISTOR			A	B
	A	B	A	B			
D3001		B-4	Q3001		Q3304	A	C-6
D3002		B-4	Q3002	F-2	Q3305		C-8
D3003		B-4	Q3003	F-2	Q3401		D-6
D3004	B-5		Q3005		Q3402	E-1	D-7
D3005	B-5		Q3006	E-5	Q3403		D-7
D3006		B-4	Q3007	D-5	Q3404	D-1	D-7
D3007		B-4	Q3008	B-3	Q3405		E-6
D3089		F-3	Q3009	F-6	Q3406		D-6
D3090		F-3	Q3010	F-5	Q3407		D-7
D3201		E-5	Q3011	F-5	Q3408		D-6
D3202	E-6		Q3014	E-5	Q3409		E-6
D3204	E-6		Q3015	F-3	Q3410		B-5
D3205	D-7		Q3016	F-3	Q3411		A-6
D3206	E-7		Q3017	F-3	Q3412		A-6
D3209	C-5		Q3018		Q3413		B-6
D3210	C-6		Q3021	F-8	Q3414		B-5
D3211	C-6		Q3022	F-8	Q3415		B-6
D3212		D-3	Q3023	F-8	Q3603	E-5	
D3213		E-3	Q3025	C-5	Q3604	G-3	
D3214	D-6		Q3026	C-6	Q3605	G-4	
D3301		C-6	Q3027	C-5	Q3606	G-4	
D3401		D-8	Q3035	B-3	Q3609	F-6	
D3402		D-8	Q3036	A-3	Q3610	F-6	
D3403		F-2	Q3037	A-3	Q3611	F-7	
			Q3038	C-3	Q3612	F-7	
			Q3039	B-3	Q3613	F-7	F-3
			Q3040	B-3	Q3617	G-4	
IC3001	E-3		Q3049	B-6	Q3618	G-4	
IC3002		C-4	Q3051	B-6	Q3619	G-4	
IC3003		E-2	Q3053	A-6	Q3620	G-4	
IC3004	C-5		Q3054	B-6			
IC3048	A-5		Q3056				
IC3089		F-3	Q3058				
IC3090	G-7		Q3058	A-4			
IC3091		F-2	Q3089				
IC3110	E-3		Q3090	D-2			
IC3201	D-5		Q3091	F-2			
IC3202	C-5		Q3101	F-4			
IC3203	D-6		Q3102	F-4			
IC3301		B-7	Q3103	F-4			
IC3302	A-6		Q3104	F-4			
IC3303	B-3		Q3110		F-6		
IC3304	B-4		Q3111		F-6		
IC3305		C-6	Q3112		F-6		
IC3306		B-9	Q3201		D-5		
IC3401	F-1		Q3202		D-5		
IC3402		E-8	Q3203		E-5		
IC3403		D-7	Q3204	E-5			
IC3404	D-4		Q3205	D-5			
IC3405	C-4		Q3206		D-4		
IC3406	D-4		Q3207	C-5			
IC3407	C-4		Q3208		C-4		
IC3408	C-3		Q3209		C-4		
IC3409	F-1		Q3210		D-3		
IC3410	C-1		Q3211	C-5			
IC3411	C-2		Q3213		D-3		
IC3412		E-8	Q3214		D-3		
IC3413		D-8	Q3215	D-7			
IC3414	A-5		Q3216		E-3		
IC3601		F-5	Q3217	D-5			
IC3602		E-4	Q3301		C-6		
IC3603		F-3	Q3302		B-8		
IC3604	G-4		Q3303		A-6		

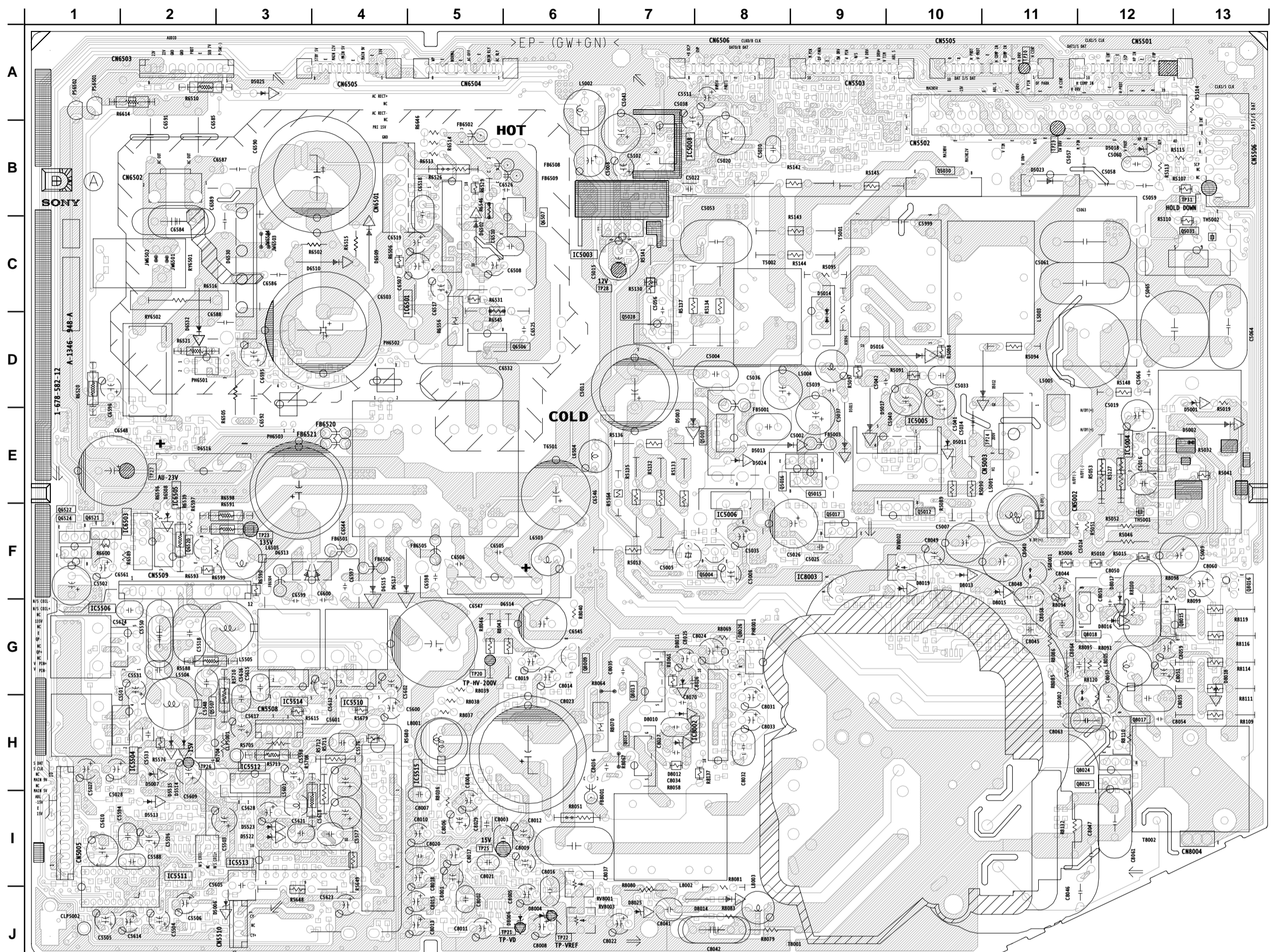
CONDUCTOR SIDE



D

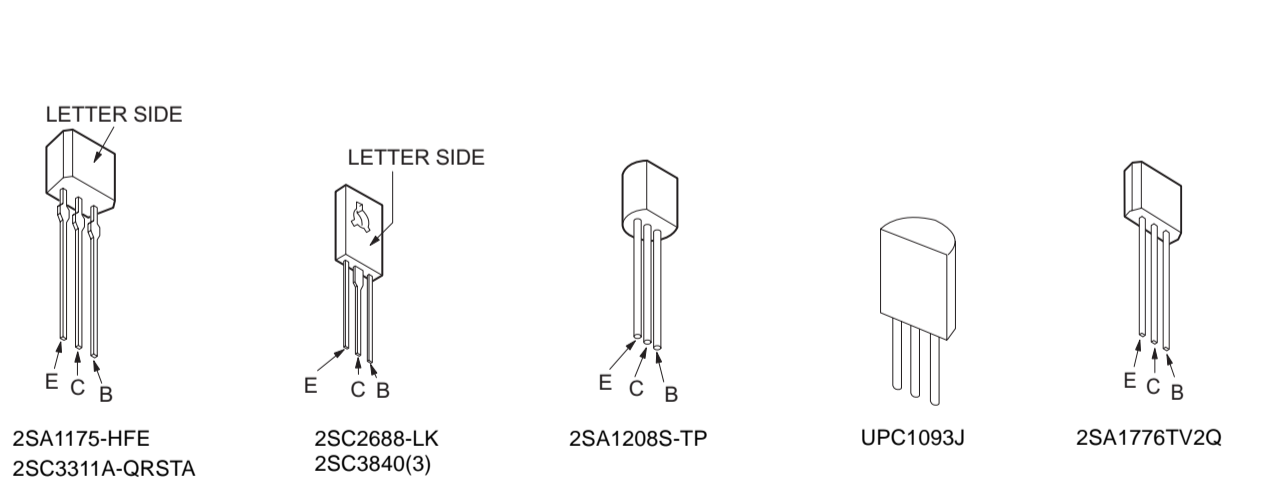
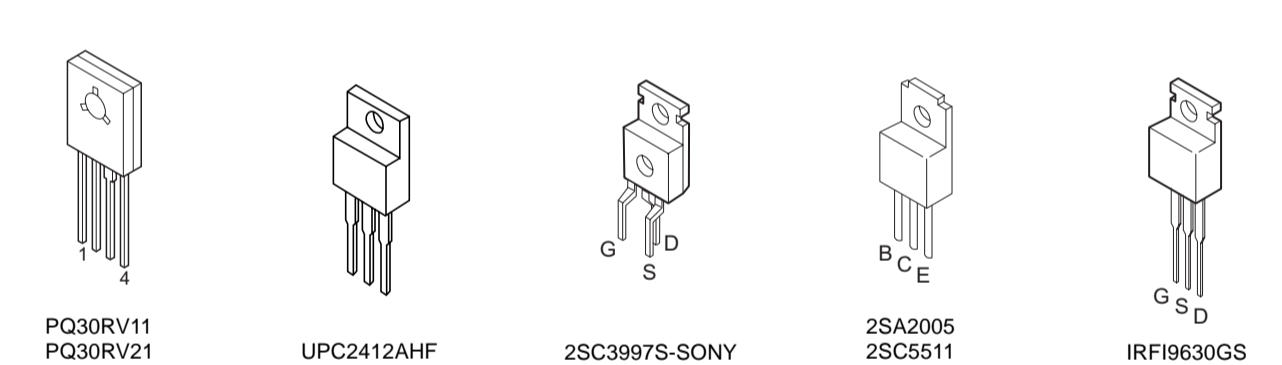
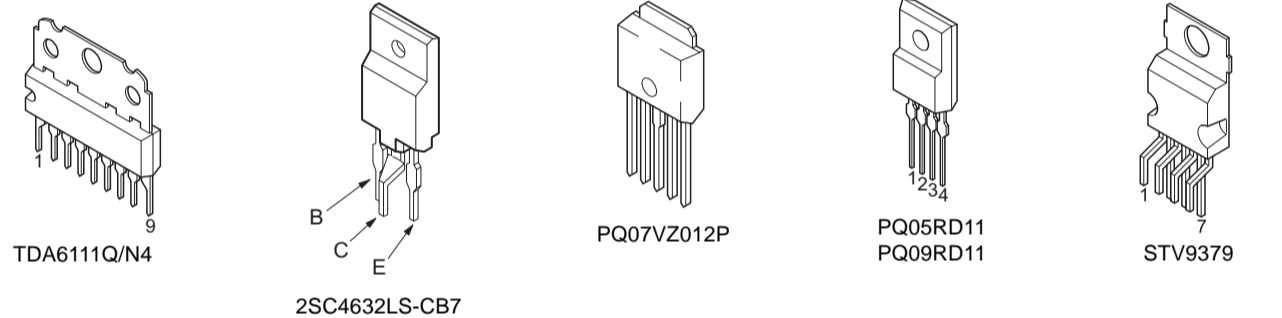
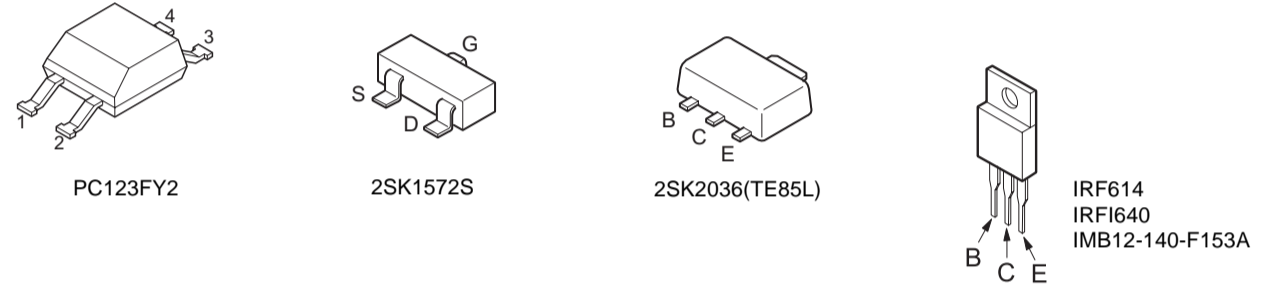
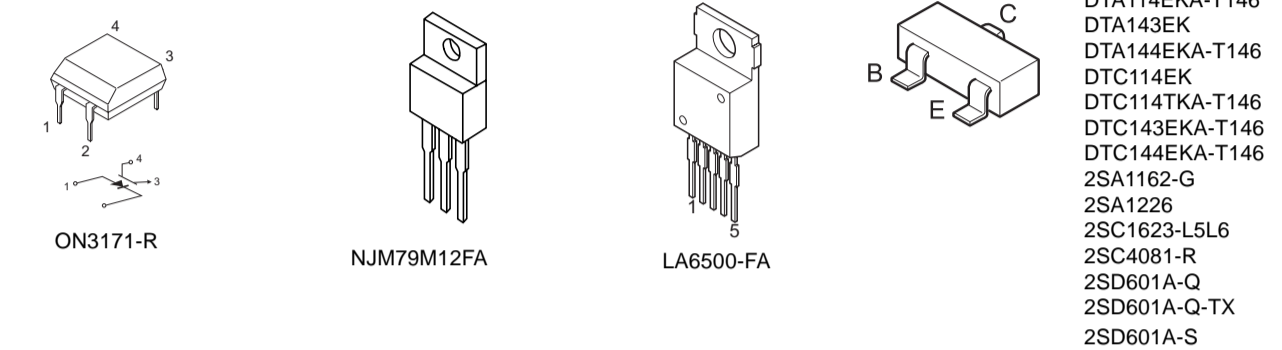
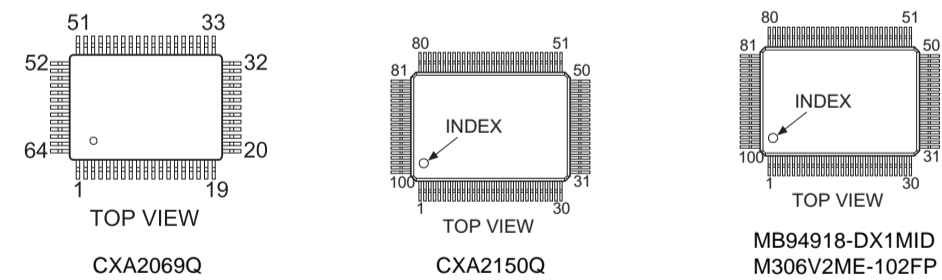
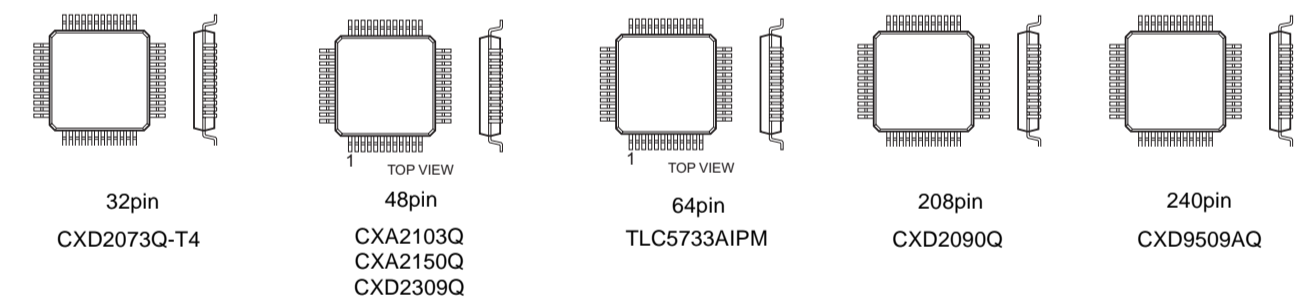
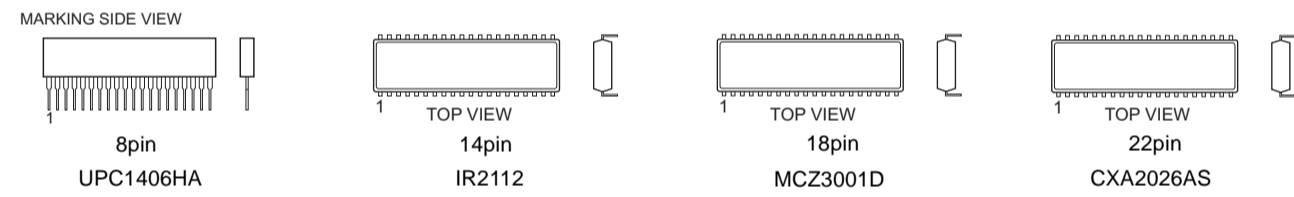
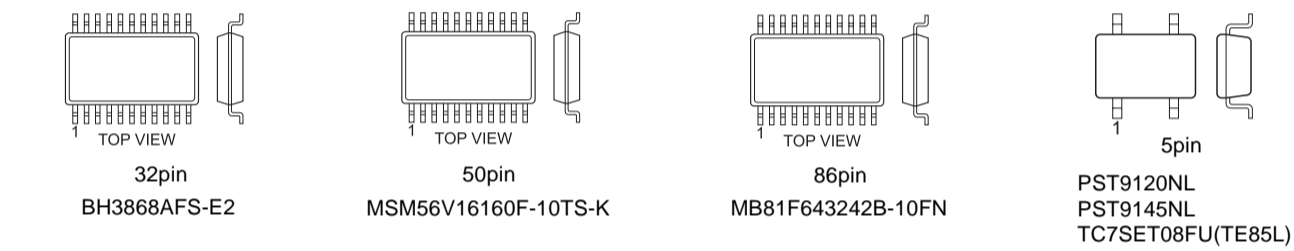
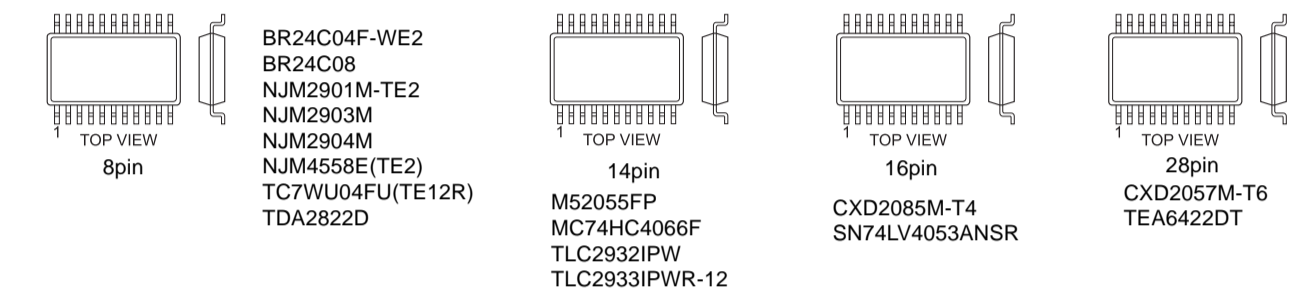
[POWER SUPPLY, AC RECT, H/V DRIVE, H/V DY, DEFLECTION]

COMPONENT SIDE

**D BOARD LOCATOR LIST**

DIODE		A	B	A	B	A	B
D5001	D-13	D5019	B-4	D5515	H-2	D8002	J-9
D5002	D-13	D5021	B-7	D5522	I-3	D8003	J-9
D5003	D-7	D5023	B-11	D5523	I-3	D8004	J-6
D5004		D5024	E-7	D6501		D8005	I-8
D5005		D5025	A-3	D6502	C-5	D8006	J-6
D5006	J-3	D5026	B-4	D6507		D8007	J-9
D5007	H-2	D5027	B-5	D6508	E-2	D8009	G-8
D5008		D5028	B-5	D6509	C-4	D8010	H-7
D5009		D5029	C-8	D6510	C-3	D8013	F-4
D5010		D5031	I-11	D6513	F-3	D8014	J-6
D5011	E-10	D5032	E-4	D6514	G-6	D8016	G-2
D5012	D-11	D5501	I-13	D6515	F-4	D8017	F-12
D5013	E-8	D5502	J-12	D6516	E-2	D8018	G-13
D5014	C-9	D5503	J-13	D6517	F-5	D8019	F-10
D5015	E-9	D5505	A-7	D6522		D8020	J-8
D5016	D-9	D5506	J-12	D6530		D8021	J-7
D5017	E-9	D5507	B-6	D6531		D8022	G-6
D5018	B-12	D5513	I-2	D6532	D-2	D8025	J-7
		D5514	H-2	D6533		D8026	G-6
				D6537		D8027	H-9

6-4. SEMICONDUCTORS




SECTION 7 EXPLODED VIEWS

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


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

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

Note:

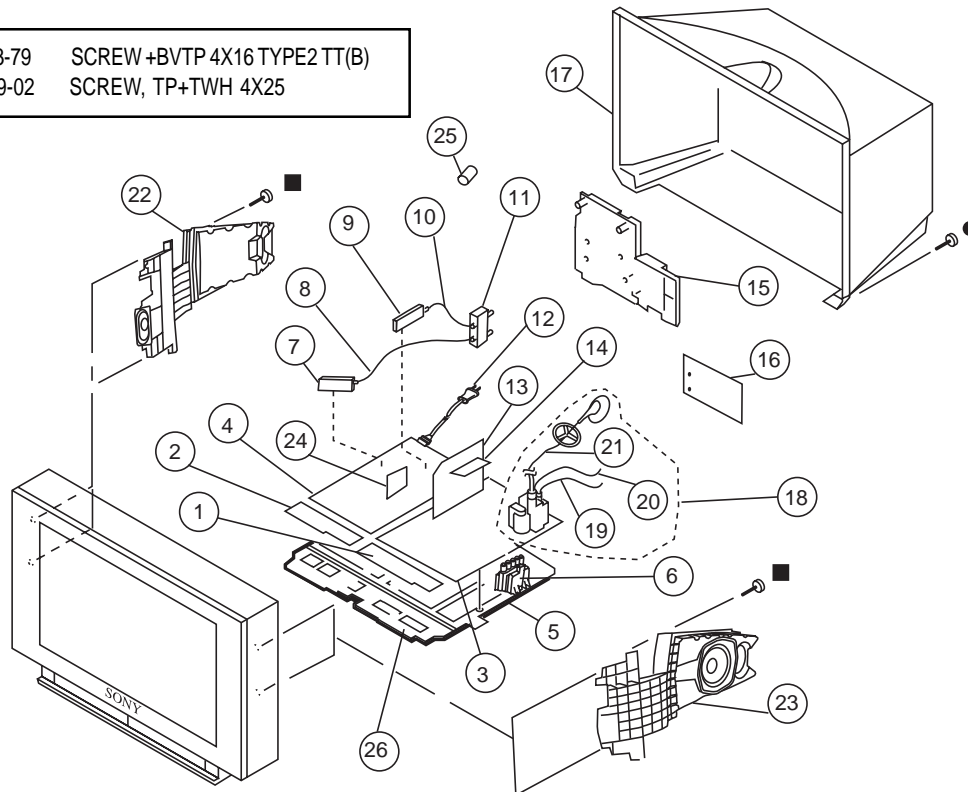
The components identified by shading and mark  are critical for safety. Replace only with part number specified.









Note:


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


7-1. CHASSIS

●	7-685-663-79	SCREW +BVTP 4X16 TYPE2 TT(B)
■	4-064-929-02	SCREW, TP+TWH 4X25

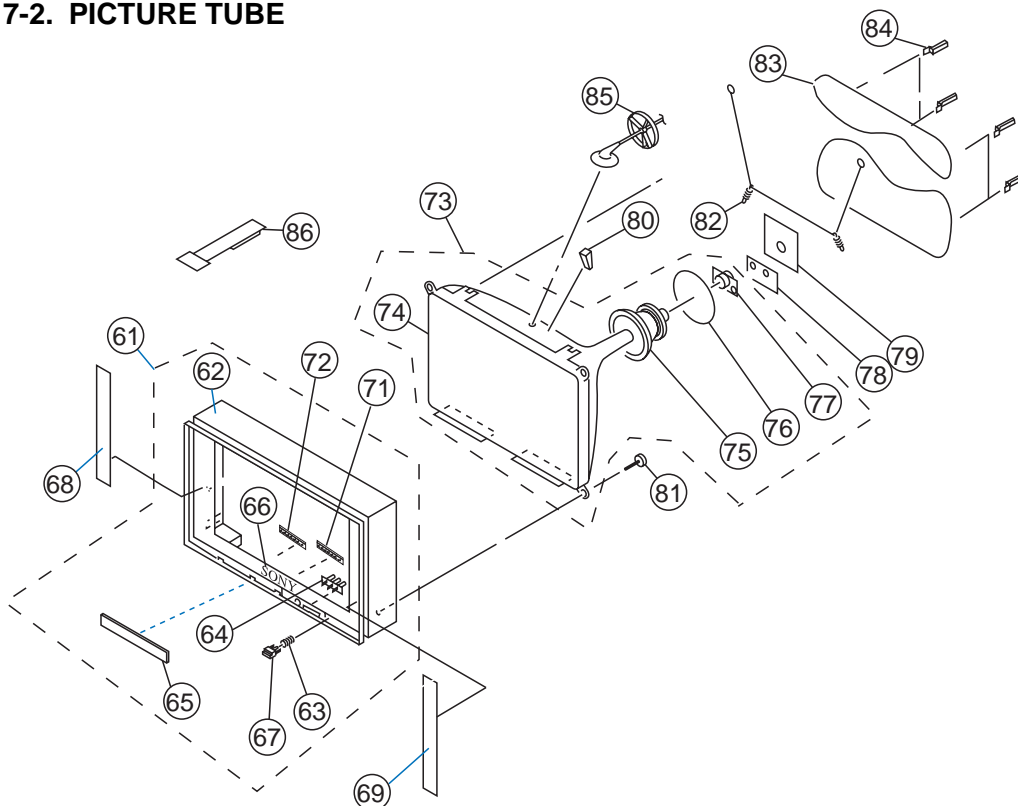


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	A-1372-834-A *	HA MOUNTED PC BOARD		12	1-769-796-61 	CORD, AC POWER(WITH CONNECTOR)	
2	A-1372-835-A *	HB MOUNTED PC BOARD				(KV-38DRC1C only)	
3	A-1346-947-A *	D COMPLETE PC BOARD (KV-32XBR400 only)		13	A-1136-110-A *	B COMPLETE PC BOARD	
3	A-1346-948-A *	D COMPLETE PC BOARD		14	A-1136-117-A *	BC COMPLETE PC BOARD	
		(KV-36XBR400/KV-38DRC1 only)		15	4-075-829-01 *	BRACKET, U	
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)		16	A-1373-817-A *	U (COM) MOUNTED PC BOARD	
3	A-1346-956-A *	D COMPLETE PC BOARD (KV-38DRC1C only)		17	4-075-821-01	COVER, REAR (KV-32XBR400 only)	
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)		17	4-075-833-01	COVER, REAR	
4	A-1299-256-A *	A BOARD, COMPLETE (except KV-38DRC1C)				(KV-36XBR400, KV-38DRC1/KV-38DRC1C only)	
4	A-1299-283-A *	A BOARD, COMPLETE (KV-38DRC1C only)		18	1-453-346-11 	FBT ASSY NX-6000//J1J4	(19-21)
5	4-075-828-01 *	BRACKET, MAIN		19	1-779-095-33 	LEAD ASSY, HIGH VOLTAGE	
6	8-598-865-00 *	BLOCK ASSY, HI-VOL HVB-1040//X		20	1-900-805-19 	FOCUS, HIGH VOLTAGE	
		(KV38DRC1C only)		21	1-251-922-11 	CAP ASSY, HIGH VOLTAGE	
6	8-598-865-01 *	BLOCK ASSY, HI-VOLHVG-1040//X		22	1-529-811-11	SPEAKER (BOX TYPE LEFT) (KV-32XBR400 only)	
		(except KV-38DRC1C)		22	1-529-812-11	SPEAKER (BOX TYPE LEFT)	
7	8-598-501-30 	TUNER (BTF-FA402)				(KV-36XBR400, KV-38DRC1/KV-38DRC1C only)	
8	1-555-400-00 *	CABLE, PIN		23	1-529-811-21	SPEAKER (BOX TYPE RIGHT) (KV-32XBR400 only)	
9	8-598-542-20 	TUNER (BTF-WA412)		23	1-529-812-21	SPEAKER (BOX TYPE RIGHT)	
10	1-557-009-31	CABLE, P-P				(KV-36XBR400, KV-38DRC1/KV-38DRC1C only)	
11	1-771-787-11	SWITCH, RF ANTENNA		24	A-1391-048-A	S MOUNTED PC BOARD	
12	1-790-316-21 	CORD, AC POWER(WITH CONNECTOR)		25	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
		(except KV-38DRC1C)		26	4-075-830-01	BRACKET, H	







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

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.

7-2. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK
61	X-4037-672-1	BEZNET ASSY (KV-32XBR400 only)	(62-67)
61	X-4037-671-1	BEZNET ASSY (KV-36XBR400/KV-38DRC1/KV-38DRC1C only)	(62-67)
62	4-075-820-01	CABINET (KV-32XBR400 only)	
62	4-075-832-01	CABINET (KV-36XBR400/KV-38DRC1/KV-38DRC1C only)	
63	4-042-593-11 *	SPRING, COMPRESSION	
64	4-075-823-01	GUIDE, LED	
65	4-075-822-01	DOOR	
66	3-704-179-01	EMBLEM (NO.9), SONY	
67	4-075-824-01	BUTTON, POWER	
68	4-077-821-01	GRILL, SPEAKER (L) (KV-32XBR400 only)	
68	4-076-635-01	GRILL, SPEAKER (L) (KV-36XBR400/KV-38DRC1/KV-38DRC1C only)	
69	4-077-822-01	GRILL, SPEAKER (R) (KV-32XBR400 only)	
69	4-076-636-01	GRILL, SPEAKER (R)	
71	4-075-825-01	BUTTON, MULTI	
72	4-075-826-01	BUTTON, MENU	
73	8-735-048-62 	ITC 38RSN-C1 (A1597344A) (KV-36XBR400 only)	(74-77)

REF.NO.	PART NO.	DESCRIPTION	REMARK
73	8-735-081-62 	ITC 38RSN-C1M (A1597346A) (KV-38DRC1 only)	(74-77)
73	8-735-080-63 	ITC 38RSN-C1E (A15974345A) (KV-38DRC1 only)	(74-77)
74	8-735-047-05 	CRT 34RSN (A80LPD80X) (KV-32XBR400 only)	
75	8-451-512-12 	DY Y34RSC-M (KV-32XBR400 only)	
76	1-451-498-21	COIL, NA ROTATION (KV-32XBR400 only)	
77	8-453-009-21 *	NA325-M2	
78	A-1372-833-A	W MOUNTED PC BOARD	
79	A-1332-075-A	C MOUNTED PC BOARD	
80	4-053-005-01	SPACER, DY (KV-32XBR400 only)	
81	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
82	4-036-329-01	SPRING (B), TENSION	
83	1-416-827-21	COIL, DEGAUSSING (KV-32XBR400 only)	
83	1-416-828-31 	COIL, DEGAUSSING (KV-36XBR400/KV-38DRC1 only)	
83	1-419-193-11 	COIL, DEGAUSSING (KV-38DRC1C only)	
84	4-065-895-04	HOLDER, DGC	
85	3-704-372-31	HOLDER, HV CABLE	
86	4-062-047-02	PIECE A(110), CONV CORRECT (KV-32XBR400 only)	

SECTION 8 ELECTRICAL PARTS LIST

**Note:**

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

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

Note:

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

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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<div style="border: 1px solid black; padding: 5px; display: inline-block; font-size: 2em; font-weight: bold; margin-right: 10px;">A</div>				C117	1-164-346-11	CERAMIC CHIP	1 μ F 16V
				C119	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
				C120	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V
				C121	1-164-346-11	CERAMIC CHIP	1 μ F 16V
				C205	1-115-340-11	CERAMIC CHIP	0.22 μ F 10% 25V
				C210	1-127-760-91	CERAMIC CHIP	4.7 μ F 10% 6.3V
				C211	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C212	1-126-933-11	ELECT	100 μ F 20% 16V
				C213	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
				C214	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C216	1-126-933-11	ELECT	100 μ F 20% 16V
				C217	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V
				C219	1-164-344-11	CERAMIC CHIP	0.068 μ F 10% 25V
				C220	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V
				C221	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C222	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C223	1-136-244-11	FILM	0.1 μ F 5% 50V
				C224	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C225	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C226	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C227	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C229	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C230	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V
				C232	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
				C233	1-164-492-11	CERAMIC CHIP	0.15 μ F 10% 16V
				C234	1-125-838-91	CERAMIC CHIP	2.2 μ F 10% 6.3V
				C235	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C236	1-126-964-11	ELECT	10 μ F 20% 50V
				C237	1-126-933-11	ELECT	100 μ F 20% 16V
				C238	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
				C239	1-126-964-11	ELECT	10 μ F 20% 50V
				C240	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C241	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C242	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C243	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V
				C244	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V
				C245	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V
C001	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C002	1-104-665-11	ELECT	100 μ F 20% 10V				
C003	1-126-960-11	ELECT	1 μ F 20% 50V				
C004	1-126-967-11	ELECT	47 μ F 20% 50V				
C005	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C006	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C007	1-126-933-11	ELECT	100 μ F 20% 16V				
C008	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V				
C009	1-126-964-11	ELECT	10 μ F 20% 50V				
C010	1-126-933-11	ELECT	100 μ F 20% 16V				
C011	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V				
C012	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C013	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C014	1-126-960-11	ELECT	1 μ F 20% 50V				
C023	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C025	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C027	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C028	1-126-933-11	ELECT	100 μ F 20% 16V				
C030	1-104-665-11	ELECT	100 μ F 20% 10V				
C032	1-126-933-11	ELECT	100 μ F 20% 16V				
C035	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C037	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V				
C038	1-126-935-11	ELECT	470 μ F 20% 16V				
C039	1-126-964-11	ELECT	10 μ F 20% 50V				
C041	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
C048	1-126-964-11	ELECT	10 μ F 20% 50V				
C051	1-107-714-11	ELECT	10 μ F 20% 16V				
C052	1-107-714-11	ELECT	10 μ F 20% 16V				
C115	1-163-001-11	CERAMIC CHIP	220pF 10% 50V				
C116	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V				

CAPACITOR

* A-1299-256-A A BOARD, COMPLETE (except KV-38DRC1C)

* A-1299-283-A A BOARD, COMPLETE (KV-38DRC1C only)

* 4-374-846-11 COVER, CAPACITOR, CAP TYPE

KV-32XBR400/36XBR400/38DRC1/38DRC1C



Note:

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

Note:

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


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C246	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	C6008	1-126-968-11	ELECT	100 μ F 20% 50V
C247	1-126-933-11	ELECT	100 μ F 20% 16V	C6009	1-104-664-11	ELECT	47 μ F 20% 25V
C248	1-127-760-91	CERAMIC CHIP	4.7 μ F 10% 6.3V	C6011	1-126-968-11	ELECT	100 μ F 20% 50V
C249	1-126-967-11	ELECT	47 μ F 20% 50V	C6013	1-119-887-51	CERAMIC	1000pF 20% 250V
C250	1-107-823-11	CERAMIC CHIP	0.47 μ F 10% 16V	C6014	1-135-945-81	FILM	10000pF 3% 800V
C251	1-115-340-11	CERAMIC CHIP	0.22 μ F 10% 25V	C6015	1-137-399-11	MYLAR	0.1 μ F 5% 100V
C252	1-126-933-11	ELECT	100 μ F 20% 16V	C6017	1-125-969-91	CERAMIC	680pF 10% 1KV
C253	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C6018	1-126-929-11	ELECT	4700 μ F 20% 10V
C254	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C6019	1-128-546-11	ELECT	10000 μ F 20% 10V
C255	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C6020	1-126-936-11	ELECT	3300 μ F 20% 16V
C256	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C6021	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C257	1-127-760-91	CERAMIC CHIP	4.7 μ F 10% 6.3V	C6026	1-126-933-11	ELECT	100 μ F 20% 16V
C258	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6027	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C259	1-115-340-11	CERAMIC CHIP	0.22 μ F 10% 25V	C6028	1-119-901-51	CERAMIC	4700pF 20% 250V (KV-38DRC1C only)
C260	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C6029 \triangle	1-136-311-11	MYLAR	0.47 μ F 20% 125V (except KV-38DRC1C)
C261	1-126-933-11	ELECT	100 μ F 20% 16V	C6029 \triangle	1-136-311-11	MYLAR	0.47 μ F 20% 300V (KV-38DRC1C only)
C701	1-164-489-11	CERAMIC CHIP	0.22 μ F 10% 16V	C6030	1-126-935-11	ELECT	470 μ F 20% 16V
C702	1-104-664-11	ELECT	47 μ F 20% 16V	C6033	1-126-941-11	ELECT	470 μ F 20% 25V
C703	1-104-664-11	ELECT	47 μ F 20% 16V	C6035 \triangle	1-136-344-11	MYLAR	0.047 μ F 20% 125V (except KV-38DRC1C)
C705	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6035 \triangle	1-136-344-11	MYLAR	0.047 μ F 20% 300V (KV-38DRC1C only)
C708	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6045	1-126-926-11	ELECT	1000 μ F 20% 10V
C710	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C6048	1-126-767-11	ELECT	1000 μ F 20% 16V
C711	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V	C6057	1-126-916-11	ELECT	1000 μ F 20% 6.3V
C712	1-104-664-11	ELECT	47 μ F 20% 16V	C6059	1-126-971-11	ELECT	470 μ F 20% 50V
C713	1-164-690-91	CERAMIC CHIP	0.0022 μ F 5% 50V	C6060	1-126-942-61	ELECT	1000 μ F 20% 25V
C715	1-126-964-11	ELECT	10 μ F 20% 50V	C6061	1-126-960-11	ELECT	1 μ F 20% 50V
C717	1-163-031-11	CERAMIC CHIP	0.01 μ F 50V	C6062	1-104-664-11	ELECT	47 μ F 20% 25V
C718	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C6063	1-136-479-11	FILM	0.001 μ F 2% 50V
C719	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C6064	1-126-964-11	ELECT	10 μ F 20% 50V
C720	1-126-935-11	ELECT	470 μ F 20% 16V	C6065	1-126-933-11	ELECT	100 μ F 20% 16V
C721	1-163-233-11	CERAMIC CHIP	18pF 5% 50V	C7001	1-126-961-11	ELECT	2.2 μ F 20% 50V
C722	1-163-233-11	CERAMIC CHIP	18pF 5% 50V	C7006	1-126-767-11	ELECT	1000 μ F 20% 16V
C724	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7007	1-136-169-00	MYLAR	0.22 μ F 5% 50V
C731	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C7008	1-126-767-11	ELECT	1000 μ F 20% 16V
C732	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C7009	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C733	1-163-031-11	CERAMIC CHIP	0.01 μ F 50V	C7010	1-126-963-11	ELECT	4.7 μ F 20% 50V
C735	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C7011	1-126-959-11	ELECT	0.47 μ F 20% 50V
C747	1-126-767-11	ELECT	1000 μ F 20% 16V	C7012	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V
C748	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C7013	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V
C6002 \triangle	1-136-346-21	MYLAR	0.22 μ F 20% 125V (except KV-38DRC1C)	C7014	1-163-989-11	CERAMIC CHIP	0.033 μ F 10% 25V
C6002 \triangle	1-136-346-21	MYLAR	0.22 μ F 20% 300V (KV-38DRC1C only)	C7015	1-163-989-11	CERAMIC CHIP	0.033 μ F 10% 25V
C6003	1-117-227-11	MYLAR	1 μ F 10% 450V	C7016	1-126-959-11	ELECT	0.47 μ F 20% 50V
C6004	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7017	1-126-963-11	ELECT	4.7 μ F 20% 50V
C6005	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7018	1-136-169-00	MYLAR	0.22 μ F 5% 50V
C6006	1-126-967-11	ELECT	47 μ F 20% 50V	C7019	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V
C6007	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V				




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L6004	1-412-525-31	INDUCTOR	10μH	Q730	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L6006	1-412-519-11	INDUCTOR	3.3μH	Q731	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L6007	1-412-519-11	INDUCTOR	3.3μH	Q6001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L6008	1-469-317-21	INDUCTOR	10μH	Q6002	8-729-027-23	TRANSISTOR DTA114EKA-T146	
L7002	1-414-187-11	INDUCTOR	47μH	Q6007	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
<u>PHOTO COUPLER</u>				Q6008	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
PH6001	8-749-924-35	PHOTO COUPLER ON3171-R		Q6009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
<u>TRANSISTOR</u>				Q6010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7004	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q004	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q7005	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7009	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q012	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7010	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q015	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7013	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q027	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q7014	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q203	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q7015	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q204	8-729-122-63	TRANSISTOR 2SA1226-T1E4		Q7016	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		<u>RESISTOR</u>			
Q206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R004	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q207	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R005	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q208	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R006	1-216-295-91	SHORT	0
Q209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R007	1-216-017-91	RES-CHIP	47 5% 1/10W
Q211	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R008	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q212	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R009	1-216-017-91	RES-CHIP	47 5% 1/10W
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146		R010	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q216	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R011	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R012	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q701	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R013	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q702	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R014	1-216-085-00	RES-CHIP	33K 5% 1/10W
Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146		R015	1-216-645-11	METAL CHIP	560 0.5% 1/10W
Q704	1-801-806-11	TRANSISTOR DTC144EKA-T146		R016	1-216-025-91	RES-CHIP	100 5% 1/10W
Q705	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R017	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q706	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R037	1-216-295-91	SHORT	0
Q707	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R039	1-216-025-91	RES-CHIP	100 5% 1/10W
Q709	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R042	1-216-025-91	RES-CHIP	100 5% 1/10W
Q710	8-729-027-23	TRANSISTOR DTA114EKA-T146		R049	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q712	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R052	1-216-085-00	RES-CHIP	33K 5% 1/10W
Q717	1-801-806-11	TRANSISTOR DTC144EKA-T146		R055	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q721	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R061	1-216-645-11	METAL CHIP	560 0.5% 1/10W
Q723	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R065	1-216-025-91	RES-CHIP	100 5% 1/10W
Q724	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R082	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q726	8-729-901-47	TRANSISTOR DTA143EKA-T146		R083	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q727	8-729-901-47	TRANSISTOR DTA143EKA-T146		R160	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q728	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R163	1-216-642-11	METAL CHIP	430 0.5% 1/10W
Q729	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R164	1-216-642-11	METAL CHIP	430 0.5% 1/10W
				R165	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
				R166	1-216-097-91	RES-CHIP	100K 5% 1/10W





REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R167	1-216-121-91	RES-CHIP	1M 5% 1/10W	R249	1-216-025-91	RES-CHIP	100 5% 1/10W
R168	1-216-073-00	RES-CHIP	10K 5% 1/10W	R250	1-216-097-91	RES-CHIP	100K 5% 1/10W
R169	1-216-073-00	RES-CHIP	10K 5% 1/10W	R251	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R170	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R252	1-216-025-91	RES-CHIP	100 5% 1/10W
R171	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R253	1-216-043-91	RES-CHIP	560 5% 1/10W
R172	1-216-097-91	RES-CHIP	100K 5% 1/10W	R255	1-216-025-91	RES-CHIP	100 5% 1/10W
R173	1-216-121-91	RES-CHIP	1M 5% 1/10W	R256	1-216-041-00	RES-CHIP	470 5% 1/10W
R174	1-216-073-00	RES-CHIP	10K 5% 1/10W	R257	1-216-017-91	RES-CHIP	47 5% 1/10W
R175	1-216-073-00	RES-CHIP	10K 5% 1/10W	R258	1-216-017-91	RES-CHIP	47 5% 1/10W
R176	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R259	1-216-017-91	RES-CHIP	47 5% 1/10W
R204	1-216-073-00	RES-CHIP	10K 5% 1/10W	R260	1-216-037-00	RES-CHIP	330 5% 1/10W
R205	1-216-025-91	RES-CHIP	100 5% 1/10W	R261	1-216-675-91	METAL CHIP	10K 0.5% 1/10W
R206	1-216-621-11	METAL CHIP	56 0.5% 1/10W	R262	1-216-025-91	RES-CHIP	100 5% 1/10W
R207	1-249-413-11	CARBON	470 5% 1/4W	R263	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R208	1-216-295-91	SHORT	0	R264	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R210	1-216-025-91	RES-CHIP	100 5% 1/10W	R265	1-216-073-00	RES-CHIP	10K 5% 1/10W
R211	1-216-621-11	METAL CHIP	56 0.5% 1/10W	R266	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R212	1-216-295-91	SHORT	0	R267	1-216-073-00	RES-CHIP	10K 5% 1/10W
R213	1-216-073-00	RES-CHIP	10K 5% 1/10W	R274	1-216-025-91	RES-CHIP	100 5% 1/10W
R214	1-216-097-91	RES-CHIP	100K 5% 1/10W	R275	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R215	1-249-413-11	CARBON	470 5% 1/4W	R276	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R216	1-216-097-91	RES-CHIP	100K 5% 1/10W	R277	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R218	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R278	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R219	1-216-025-91	RES-CHIP	100 5% 1/10W	R280	1-216-295-91	SHORT	0
R220	1-216-621-11	METAL CHIP	56 0.5% 1/10W	R281	1-216-295-91	SHORT	0
R221	1-249-413-11	CARBON	470 5% 1/4W	R282	1-216-295-91	SHORT	0
R223	1-216-025-91	RES-CHIP	100 5% 1/10W	R283	1-216-295-91	SHORT	0
R226	1-216-073-00	RES-CHIP	10K 5% 1/10W	R284	1-216-295-91	SHORT	0
R228	1-216-025-91	RES-CHIP	100 5% 1/10W	R701	1-216-089-91	RES-CHIP	47K 5% 1/10W
R229	1-216-025-91	RES-CHIP	100 5% 1/10W	R702	1-216-097-91	RES-CHIP	100K 5% 1/10W
R230	1-216-025-91	RES-CHIP	100 5% 1/10W	R703	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R231	1-216-025-91	RES-CHIP	100 5% 1/10W	R704	1-216-073-00	RES-CHIP	10K 5% 1/10W
R232	1-216-025-91	RES-CHIP	100 5% 1/10W	R705	1-216-101-00	RES-CHIP	150K 5% 1/10W
R233	1-216-025-91	RES-CHIP	100 5% 1/10W	R706	1-216-073-00	RES-CHIP	10K 5% 1/10W
R234	1-216-025-91	RES-CHIP	100 5% 1/10W	R707	1-216-097-91	RES-CHIP	100K 5% 1/10W
R235	1-216-025-91	RES-CHIP	100 5% 1/10W	R708	1-216-025-91	RES-CHIP	100 5% 1/10W
R236	1-216-025-91	RES-CHIP	100 5% 1/10W	R709	1-216-097-91	RES-CHIP	100K 5% 1/10W
R237	1-216-025-91	RES-CHIP	100 5% 1/10W	R710	1-216-073-00	RES-CHIP	10K 5% 1/10W
R238	1-216-025-91	RES-CHIP	100 5% 1/10W	R711	1-216-073-00	RES-CHIP	10K 5% 1/10W
R239	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R712	1-216-049-91	RES-CHIP	1K 5% 1/10W
R240	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R713	1-216-025-91	RES-CHIP	100 5% 1/10W
R241	1-216-133-00	RES-CHIP	3.3M 5% 1/10W	R714	1-216-025-91	RES-CHIP	100 5% 1/10W
R242	1-216-075-00	RES-CHIP	12K 5% 1/10W	R719	1-216-049-91	RES-CHIP	1K 5% 1/10W
R243	1-216-073-00	RES-CHIP	10K 5% 1/10W	R721	1-216-049-91	RES-CHIP	1K 5% 1/10W
R244	1-216-025-91	RES-CHIP	100 5% 1/10W	R727	1-216-049-91	RES-CHIP	1K 5% 1/10W
R245	1-216-073-00	RES-CHIP	10K 5% 1/10W	R729	1-216-049-91	RES-CHIP	1K 5% 1/10W
R246	1-216-073-00	RES-CHIP	10K 5% 1/10W	R731	1-216-073-00	RES-CHIP	10K 5% 1/10W
R247	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R740	1-216-073-00	RES-CHIP	10K 5% 1/10W
R248	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R741	1-216-073-00	RES-CHIP	10K 5% 1/10W

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK				
R742	1-216-041-00	RES-CHIP	470	5%	1/10W	R815	1-216-025-91	RES-CHIP	100	5%	1/10W
R743	1-216-025-91	RES-CHIP	100	5%	1/10W	R816	1-216-025-91	RES-CHIP	100	5%	1/10W
R744	1-216-049-91	RES-CHIP	1K	5%	1/10W	R817	1-216-025-91	RES-CHIP	100	5%	1/10W
R748	1-216-081-00	RES-CHIP	22K	5%	1/10W	R818	1-216-025-91	RES-CHIP	100	5%	1/10W
R749	1-216-049-91	RES-CHIP	1K	5%	1/10W	R819	1-216-037-00	RES-CHIP	330	5%	1/10W
R754	1-216-025-91	RES-CHIP	100	5%	1/10W	R822	1-216-037-00	RES-CHIP	330	5%	1/10W
R755	1-216-025-91	RES-CHIP	100	5%	1/10W	R824	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R756	1-216-025-91	RES-CHIP	100	5%	1/10W	R825	1-216-025-91	RES-CHIP	100	5%	1/10W
R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R827	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R758	1-216-025-91	RES-CHIP	100	5%	1/10W	R828	1-216-073-00	RES-CHIP	10K	5%	1/10W
R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R829	1-216-073-00	RES-CHIP	10K	5%	1/10W
R763	1-216-295-91	SHORT	0			R830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R764	1-216-049-91	RES-CHIP	1K	5%	1/10W	R834	1-216-041-00	RES-CHIP	470	5%	1/10W
R767	1-216-049-91	RES-CHIP	1K	5%	1/10W	R836	1-216-049-91	RES-CHIP	1K	5%	1/10W
R769	1-216-049-91	RES-CHIP	1K	5%	1/10W	R837	1-216-025-91	RES-CHIP	100	5%	1/10W
R771	1-216-049-91	RES-CHIP	1K	5%	1/10W	R838	1-216-049-91	RES-CHIP	1K	5%	1/10W
R772	1-216-081-00	RES-CHIP	22K	5%	1/10W	R839	1-216-025-91	RES-CHIP	100	5%	1/10W
R773	1-216-081-00	RES-CHIP	22K	5%	1/10W	R841	1-216-033-00	RES-CHIP	220	5%	1/10W
R774	1-216-081-00	RES-CHIP	22K	5%	1/10W	R842	1-216-081-00	RES-CHIP	22K	5%	1/10W
R776	1-216-049-91	RES-CHIP	1K	5%	1/10W	R843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R777	1-216-073-00	RES-CHIP	10K	5%	1/10W	R847	1-216-025-91	RES-CHIP	100	5%	1/10W
R780	1-216-073-00	RES-CHIP	10K	5%	1/10W	R848	1-216-025-91	RES-CHIP	100	5%	1/10W
R781	1-216-025-91	RES-CHIP	100	5%	1/10W	R849	1-216-295-91	SHORT	0		
R784	1-216-025-91	RES-CHIP	100	5%	1/10W	R850	1-216-295-91	SHORT	0		
R785	1-216-049-91	RES-CHIP	1K	5%	1/10W	R851	1-216-295-91	SHORT	0		
R787	1-216-121-91	RES-CHIP	1M	5%	1/10W	R852	1-216-049-91	RES-CHIP	1K	5%	1/10W
R788	1-216-295-91	SHORT	0			R853	1-216-295-91	SHORT	0		
R789	1-216-041-00	RES-CHIP	470	5%	1/10W	R854	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R791	1-216-025-91	RES-CHIP	100	5%	1/10W	R856	1-216-049-91	RES-CHIP	1K	5%	1/10W
R792	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R857	1-216-025-91	RES-CHIP	100	5%	1/10W
R793	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R858	1-216-295-91	SHORT	0		
R794	1-216-017-91	RES-CHIP	47	5%	1/10W	R859	1-216-295-91	SHORT	0		
R795	1-216-025-91	RES-CHIP	100	5%	1/10W	R860	1-216-689-11	RES-CHIP	39K	5%	1/10W
R796	1-216-295-91	SHORT	0			R861	1-216-689-11	RES-CHIP	39K	5%	1/10W
R797	1-216-017-91	RES-CHIP	47	5%	1/10W	R862	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R863	1-216-049-91	RES-CHIP	1K	5%	1/10W
R799	1-216-049-91	RES-CHIP	1K	5%	1/10W	R864	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R865	1-216-295-91	SHORT	0		
R801	1-216-025-91	RES-CHIP	100	5%	1/10W	R866	1-216-295-91	SHORT	0		
R802	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R867	1-216-081-00	RES-CHIP	22K	5%	1/10W
R803	1-216-017-91	RES-CHIP	47	5%	1/10W	R6001	1-216-073-00	RES-CHIP	10K	5%	1/10W
R804	1-216-037-00	RES-CHIP	330	5%	1/10W	R6002	1-249-393-11	CARBON	10	5%	1/4W
R805	1-216-037-00	RES-CHIP	330	5%	1/10W	R6003 	1-219-776-11	CARBON	2.2M	10%	1/2W
R806	1-216-037-00	RES-CHIP	330	5%	1/10W				(except KV38DRC1C)		
R807	1-216-017-91	RES-CHIP	47	5%	1/10W	R6003 	1-247-289-00	CARBON	8.2M	5%	1W
									(KV-38DRC1C only)		
R808	1-216-049-91	RES-CHIP	1K	5%	1/10W	R6004	1-216-121-91	RES-CHIP	1M	5%	1/10W
R812	1-216-049-91	RES-CHIP	1K	5%	1/10W						
R813	1-216-049-91	RES-CHIP	1K	5%	1/10W	R6006	1-217-418-61	FUSIBLE	0.47	10%	1/2W
R814	1-216-025-91	RES-CHIP	100	5%	1/10W	R6007	1-215-481-00	METAL	330K	1%	1/4W



Note:

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

Note:

Les composants identifiés par un trame et une marque **A** 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
R6008	1-215-481-00	METAL	330K 1% 1/4W	R7005	1-216-121-91	RES-CHIP	1M 5% 1/10W
R6009	1-215-481-00	METAL	330K 1% 1/4W	R7006	1-216-089-91	RES-CHIP	47K 5% 1/10W
R6010	1-249-393-11	CARBON	10 5% 1/4W	R7007	1-216-017-91	RES-CHIP	47 5% 1/10W
R6011	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R7008	1-216-085-00	RES-CHIP	33K 5% 1/10W
R6012	1-216-049-91	RES-CHIP	1K 5% 1/10W	R7009	1-216-295-91	SHORT	0
R6015	1-216-049-91	RES-CHIP	1K 5% 1/10W	R7010	1-216-295-91	SHORT	0
R6019	1-216-073-00	RES-CHIP	10K 5% 1/10W	R7011	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R6020	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R7012	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R6021	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W	R7013	1-216-077-91	RES-CHIP	15K 5% 1/10W
R6022	1-216-672-11	METAL CHIP	7.5K 0.5% 1/10W	R7014	1-249-429-11	CARBON	10K 5% 1/4W
R6025	1-249-417-11	CARBON	1K 5% 1/4W	R7015	1-249-429-11	CARBON	10K 5% 1/4W
R6029	1-216-105-91	RES-CHIP	220K 5% 1/10W	R7016	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6038	1-216-675-91	METAL CHIP	10K 0.5% 1/10W	R7017	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6039	1-216-681-11	METAL CHIP	18K 0.5% 1/10W	R7018	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6040	1-218-762-11	METAL CHIP	270K 0.5% 1/10W	R7019	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6041 A	1-240-241-11	CEMENTED	0.47 5% 20W (except KV-38DRC1C)	R7021	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6041 A	1-205-943-11	CEMENTED	1 5% 20W (KV38DRC1C only)	R7022	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6042 A	1-240-241-11	CEMENTED	0.47 5% 20W (except KV-38DRC1C)	R7023	1-249-385-11	CARBON	2.2 5% 1/4W
R6042 A	1-205-943-11	CEMENTED	1 5% 20W (KV38DRC1C only)	R7024	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6043	1-211-964-11	METAL CHIP	33 0.5% 1/10W	R7025	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6044	1-249-393-11	CARBON	10 5% 1/4W	R7026	1-249-385-11	CARBON	2.2 5% 1/4W
R6046	1-216-073-00	RES-CHIP	10K 5% 1/10W	R7045	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6047	1-216-041-00	RES-CHIP	470 5% 1/10W	R7046	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6049	1-216-363-00	METAL OXIDE	0.33 5% 2W	R7047	1-216-041-00	RES-CHIP	470 5% 1/10W
R6050	1-216-363-00	METAL OXIDE	0.33 5% 2W	R7048	1-216-041-00	RES-CHIP	470 5% 1/10W
R6051	1-249-393-11	CARBON	10 5% 1/4W	R7051	1-216-295-91	SHORT	0
R6052	1-216-073-00	RES-CHIP	10K 5% 1/10W	R7052	1-216-077-91	RES-CHIP	15K 5% 1/10W
R6053	1-215-907-11	METAL OXIDE	22 5% 3W	R7053	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6055	1-216-295-91	SHORT	0	R7054	1-216-295-91	SHORT	0
R6056	1-216-679-11	METAL CHIP	15K 0.5% 1/10W	R7055	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6058	1-208-758-11	METAL CHIP	100 0.5% 1/10W	R7056	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R6059	1-249-417-11	CARBON	1K 5% 1/4W	R7058	1-249-429-11	CARBON	10K 5% 1/4W
R6060	1-202-962-11	CEMENTED	3.3 5% 10W (KV-38DRC1C only)	R7059	1-249-385-11	CARBON	2.2 5% 1/4W
R6061	1-202-962-11	CEMENTED	3.3 5% 10W (KV-38DRC1C only)	R7060	1-249-385-11	CARBON	2.2 5% 1/4W
R6062	1-216-295-91	SHORT	0	R7061	1-216-295-91	SHORT	0
R6063	1-216-073-00	RES-CHIP	10K 5% 1/10W	R7063	1-216-689-11	RES-CHIP	39K 5% 1/10W
R6064	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R7064	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6065	1-216-049-91	RES-CHIP	1K 5% 1/10W	R7065	1-216-041-00	RES-CHIP	470 5% 1/10W
R6066 A	1-216-343-00	METAL OXIDE	0.33 5% 1W	R7067	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6067	1-216-049-91	RES-CHIP	1K 5% 1/10W	R7068	1-216-041-00	RES-CHIP	470 5% 1/10W
R6068	1-249-433-11	CARBON	22K 5% 3W	R7070	1-216-689-11	RES-CHIP	39K 5% 1/10W
R7002	1-216-097-91	RES-CHIP	100K 5% 1/10W	R7071	1-216-121-91	RES-CHIP	1M 5% 1/10W
R7003	1-216-689-11	RES-CHIP	39K 5% 1/10W	R7083	1-249-429-11	CARBON	10K 5% 1/4W
R7004	1-216-689-11	RES-CHIP	39K 5% 1/10W	R7086	1-216-295-91	SHORT	0
				R7088	1-216-295-91	SHORT	0
				R7090	1-216-089-91	RES-CHIP	47K 5% 1/10W
				R7091	1-216-081-00	RES-CHIP	22K 5% 1/10W
				R7092	1-216-025-91	RES-CHIP	100 5% 1/10W
				R7093	1-216-025-91	RES-CHIP	100 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3046	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3115	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3047	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3116	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3048	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3117	1-126-603-11	ELECT CHIP	4.7μF 20% 35V
C3049	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3120	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C3050	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3127	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3051	1-162-917-11	CERAMIC CHIP	15pF 5% 50V	C3128	1-164-185-11	CERAMIC CHIP	13pF 5% 50V
C3054	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3129	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3055	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3130	1-164-315-11	CERAMIC CHIP	470pF 5% 50V
C3056	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3131	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3057	1-126-603-11	ELECT CHIP	4.7μF 20% 35V	C3132	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3059	1-126-206-11	ELECT CHIP	100μF 20% 6.3V	C3133	1-125-838-91	CERAMIC CHIP	2.2μF 10% 6.3V
C3060	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3134	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3061	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3135	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3062	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3136	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C3063	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3137	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3064	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3138	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3066	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3139	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3067	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3140	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3068	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3141	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3069	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3142	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3070	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3172	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3071	1-164-185-11	CERAMIC CHIP	13pF 5% 50V	C3173	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3072	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3204	1-126-193-11	ELECT CHIP	1μF 20% 50V
C3073	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3205	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3074	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3206	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3075	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	C3208	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3076	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3209	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3078	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3210	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3079	1-125-838-91	CERAMIC CHIP	2.2μF 10% 6.3V	C3211	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3080	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3212	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3081	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3213	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3082	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3215	1-126-401-21	ELECT CHIP	1μF 20% 50V
C3083	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C3216	1-126-193-11	ELECT CHIP	1μF 20% 50V
C3085	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V	C3218	1-126-193-11	ELECT CHIP	1μF 20% 50V
C3086	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3219	1-126-193-11	ELECT CHIP	1μF 20% 50V
C3087	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3220	1-128-993-21	ELECT CHIP	22μF 20% 10V
C3088	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3221	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3089	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3222	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3090	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3223	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3091	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3224	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3092	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3225	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3093	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3226	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3094	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3227	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3096	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3229	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3097	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3235	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3098	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3236	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3099	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	C3237	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3113	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3239	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3114	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3240	1-164-230-11	CERAMIC CHIP	220pF 5% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3241	1-164-361-11	CERAMIC CHIP	0.047μF 25V	C3344	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3242	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3345	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3243	1-126-193-11	ELECT CHIP	1μF 20% 50V	C3346	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3245	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3347	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3246	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3348	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3247	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3349	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3248	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3350	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3249	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3351	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3250	1-216-295-91	SHORT	0	C3352	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3251	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3353	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3252	1-216-295-91	SHORT	0	C3354	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3301	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3355	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3302	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3356	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3303	1-126-206-11	ELECT CHIP	100μF 20% 6.3V	C3357	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3304	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3358	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3305	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3359	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3306	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3360	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3307	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3361	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3308	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3362	1-127-760-91	CERAMIC CHIP	4.7μF 10% 6.3V
C3309	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3363	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3310	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3364	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3311	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3365	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3312	1-126-206-11	ELECT CHIP	100μF 20% 6.3V	C3366	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3313	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3367	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3314	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3368	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3315	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3369	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3316	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3370	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3317	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3371	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3318	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3372	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3319	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3373	1-162-923-11	CERAMIC CHIP	47pF 5% 50V
C3320	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3374	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3321	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3375	1-127-760-91	CERAMIC CHIP	4.7μF 10% 6.3V
C3322	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3376	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3323	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3377	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3324	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3378	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3325	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3379	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3326	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3401	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3327	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3402	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3328	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3403	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3331	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3404	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3332	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3405	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C3333	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3406	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C3335	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3407	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C3336	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3408	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C3338	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3409	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3339	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3410	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3340	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3411	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3341	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3412	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3343	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3413	1-164-156-11	CERAMIC CHIP	0.1μF 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3414	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3466	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3415	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3467	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3416	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3468	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C3417	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3469	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3418	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3470	1-126-206-11	ELECT CHIP	100μF 20% 6.3V
C3419	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3473	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3420	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3474	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3421	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3475	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3422	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3476	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3423	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3477	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3424	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3478	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3425	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C3479	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3426	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3480	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3428	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3481	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3429	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3482	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3430	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3483	1-117-681-11	ELECT CHIP	100μF 20% 16V
C3431	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3484	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3432	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3485	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3433	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3486	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3434	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3487	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3435	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3488	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3436	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3489	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3437	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3490	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3438	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3491	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3439	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3492	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3440	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3493	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3441	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3494	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3442	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3495	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3443	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3496	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3444	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3604	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3445	1-126-204-11	ELECT CHIP	47μF 20% 16V	C3605	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3446	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3606	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3447	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3607	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3448	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3608	1-163-143-00	CERAMIC CHIP	0.0012μF 5% 50V
C3449	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V	C3609	1-162-968-11	CERAMIC CHIP	0.0047μF 10% 50V
C3450	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3610	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3451	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3611	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3452	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3612	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3453	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3613	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3454	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3618	1-124-779-00	ELECT CHIP	10μF 20% 16V
C3455	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3619	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3456	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3623	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3457	1-124-779-00	ELECT CHIP	10μF 20% 16V	C3624	1-107-826-91	CERAMIC CHIP	0.1μF 10% 16V
C3458	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3625	1-163-143-00	CERAMIC CHIP	0.0012μF 5% 50V
C3460	1-162-923-11	CERAMIC CHIP	47pF 5% 50V	C3626	1-162-968-11	CERAMIC CHIP	0.0047μF 10% 50V
C3462	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3627	1-126-204-11	ELECT CHIP	47μF 20% 16V
C3463	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3628	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3464	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3629	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3465	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3630	1-162-917-11	CERAMIC CHIP	15pF 5% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC3406	8-759-485-79	IC TC7SET08FU(TE85R)		L3411	1-412-058-11	INDUCTOR CHIP 10μH	
IC3407	8-759-485-79	IC TC7SET08FU(TE85R)		L3412	1-469-555-21	INDUCTOR 10μH	
IC3408	8-759-672-57	IC CXD9509AQ		L3413	1-469-555-21	INDUCTOR 10μH	
IC3409	8-749-015-18	IC PQ07VZ012P		L3414	1-469-555-21	INDUCTOR 10μH	
IC3410	8-752-367-59	IC CXD2309Q		L3416	1-469-555-21	INDUCTOR 10μH	
IC3411	8-759-082-57	IC TC7W04FU(TE12R)		L3601	1-469-555-21	INDUCTOR 10μH	
IC3412	8-759-082-58	IC TC7W08FU(TE12R)		L3602	1-412-951-11	INDUCTOR 10μH	
IC3413	8-759-595-97	IC SN74LV4053ANSR		L3603	1-469-555-21	INDUCTOR 10μH	
IC3414	8-759-548-56	IC M52055FP		L3604	1-412-951-11	INDUCTOR 10μH	
IC3601	8-752-916-40	IC CXP85840A-039Q		L3605	1-469-555-21	INDUCTOR 10μH	
IC3602	8-752-916-40	IC CXP85840A-039Q		L3606	1-469-555-21	INDUCTOR 10μH	
IC3603	8-752-395-13	IC CXD2085M-T4		L3607	1-469-555-21	INDUCTOR 10μH	
IC3604	8-759-700-07	IC NJM2903M-TE2		L3608	1-414-754-11	INDUCTOR 10μH	
				L3609	1-414-754-11	INDUCTOR 10μH	
COIL				TRANSISTOR			
L3001	1-216-295-91	SHORT	0	Q3001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3002	1-469-555-21	INDUCTOR	10μH	Q3002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3003	1-469-555-21	INDUCTOR	10μH	Q3003	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3004	1-469-555-21	INDUCTOR	10μH	Q3005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3005	1-469-555-21	INDUCTOR	10μH	Q3006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3049	1-469-555-21	INDUCTOR	10μH	Q3007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3050	1-469-555-21	INDUCTOR	10μH	Q3008	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3051	1-469-555-21	INDUCTOR	10μH	Q3009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3089	1-414-233-22	INDUCTOR CHIP	0μH	Q3010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3112	1-469-555-21	INDUCTOR	10μH	Q3011	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3113	1-469-555-21	INDUCTOR	10μH	Q3014	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3301	1-412-058-11	INDUCTOR CHIP	10μH	Q3015	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3302	1-469-555-21	INDUCTOR	10μH	Q3016	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3303	1-412-052-21	INDUCTOR CHIP	1μH	Q3017	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3304	1-469-555-21	INDUCTOR	10μH	Q3018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3305	1-469-555-21	INDUCTOR	10μH	Q3021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3306	1-469-561-21	INDUCTOR	100μH	Q3022	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3307	1-469-555-21	INDUCTOR	10μH	Q3023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3308	1-469-561-21	INDUCTOR	100μH	Q3025	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3309	1-469-561-21	INDUCTOR	100μH	Q3026	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3310	1-469-561-21	INDUCTOR	100μH	Q3027	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3311	1-469-561-21	INDUCTOR	100μH	Q3035	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3312	1-469-555-21	INDUCTOR	10μH	Q3036	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3401	1-412-052-21	INDUCTOR CHIP	1μH	Q3037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3402	1-412-052-21	INDUCTOR CHIP	1μH	Q3038	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3403	1-469-561-21	INDUCTOR	100μH	Q3039	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3404	1-469-561-21	INDUCTOR	100μH	Q3040	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3405	1-469-555-21	INDUCTOR	10μH	Q3049	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3406	1-469-555-21	INDUCTOR	10μH	Q3051	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3407	1-469-555-21	INDUCTOR	10μH	Q3053	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3408	1-469-555-21	INDUCTOR	10μH	Q3054	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3409	1-469-555-21	INDUCTOR	10μH	Q3056	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3410	1-412-052-21	INDUCTOR CHIP	1μH				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3043	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3097	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3044	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3098	1-216-805-11	RES-CHIP	47 5% 1/16W
R3045	1-216-817-11	RES-CHIP	470 5% 1/16W	R3099	1-216-805-11	RES-CHIP	47 5% 1/16W
R3046	1-216-817-11	RES-CHIP	470 5% 1/16W	R3100	1-216-809-11	RES-CHIP	100 5% 1/16W
R3047	1-216-809-11	RES-CHIP	100 5% 1/16W	R3101	1-216-809-11	RES-CHIP	100 5% 1/16W
R3048	1-216-809-11	RES-CHIP	100 5% 1/16W	R3102	1-216-809-11	RES-CHIP	100 5% 1/16W
R3049	1-216-809-11	RES-CHIP	100 5% 1/16W	R3103	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3050	1-216-809-11	RES-CHIP	100 5% 1/16W	R3104	1-216-809-11	RES-CHIP	100 5% 1/16W
R3051	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3105	1-216-809-11	RES-CHIP	100 5% 1/16W
R3052	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3106	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3053	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3107	1-216-864-11	SHORT	0
R3056	1-216-817-11	RES-CHIP	470 5% 1/16W	R3108	1-216-817-11	RES-CHIP	470 5% 1/16W
R3057	1-216-817-11	RES-CHIP	470 5% 1/16W	R3121	1-216-809-11	RES-CHIP	100 5% 1/16W
R3058	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3122	1-216-809-11	RES-CHIP	100 5% 1/16W
R3059	1-216-817-11	RES-CHIP	470 5% 1/16W	R3123	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W
R3060	1-216-809-11	RES-CHIP	100 5% 1/16W	R3124	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W
R3061	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R3125	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R3062	1-218-697-11	METAL CHIP	1.6K 0.5% 1/16W	R3126	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R3063	1-218-716-11	METAL CHIP	10K 0.5% 1/16W	R3127	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3064	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W	R3128	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3066	1-216-809-11	RES-CHIP	100 5% 1/16W	R3129	1-216-835-11	RES-CHIP	15K 5% 1/16W
R3067	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3130	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3068	1-216-809-11	RES-CHIP	100 5% 1/16W	R3131	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3071	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3132	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3072	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3133	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3073	1-216-805-11	RES-CHIP	47 5 1/16W	R3134	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3074	1-216-805-11	RES-CHIP	47 5% 1/16W	R3135	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3075	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3136	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3076	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3137	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3077	1-216-809-11	RES-CHIP	100 5% 1/16W	R3138	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3078	1-216-832-11	RES-CHIP	8.2K 5% 1/16W	R3139	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3079	1-216-049-91	RES-CHIP	1K 5% 1/10W	R3140	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3080	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3141	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3081	1-216-809-11	RES-CHIP	100 5% 1/16W	R3142	1-216-805-11	RES-CHIP	47 5% 1/16W
R3082	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3143	1-216-805-11	RES-CHIP	47 5% 1/16W
R3083	1-216-864-11	SHORT	0	R3144	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3084	1-216-864-11	SHORT	0	R3145	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3085	1-216-864-11	SHORT	0	R3146	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R3086	1-216-864-11	SHORT	0	R3147	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3087	1-216-864-11	SHORT	0	R3151	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3088	1-216-864-11	SHORT	0	R3152	1-216-818-11	RES-CHIP	560 5% 1/16W
R3089	1-216-864-11	SHORT	0	R3154	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R3090	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R3155	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3091	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3156	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3092	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3157	1-216-817-11	RES-CHIP	470 5% 1/16W
R3093	1-216-809-11	RES-CHIP	100 5% 1/16W	R3158	1-216-817-11	RES-CHIP	470 5% 1/16W
R3094	1-216-809-11	RES-CHIP	100 5% 1/16W	R3159	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3095	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3160	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3096	1-216-817-11	RES-CHIP	470 5% 1/16W	R3161	1-216-809-11	RES-CHIP	100 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3162	1-216-811-11	RES-CHIP	150 5% 1/16W	R3230	1-216-809-11	RES-CHIP	100 5% 1/16W
R3163	1-218-710-91	METAL CHIP	5.6K 0.5% 1/16W	R3231	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3164	1-218-710-91	METAL CHIP	5.6K 0.5% 1/16W	R3232	1-216-809-11	RES-CHIP	100 5% 1/16W
R3165	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R3233	1-216-809-11	RES-CHIP	100 5% 1/16W
R3166	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R3234	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3180	1-218-673-11	METAL CHIP	160 0.5% 1/16W	R3235	1-216-809-11	RES-CHIP	100 5% 1/16W
R3181	1-218-673-11	METAL CHIP	160 0.5% 1/16W	R3236	1-216-809-11	RES-CHIP	100 5% 1/16W
R3182	1-218-673-11	METAL CHIP	160 0.5% 1/16W	R3240	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3183	1-216-809-11	RES-CHIP	100 5% 1/16W	R3241	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3184	1-216-809-11	RES-CHIP	100 5% 1/16W	R3242	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3185	1-216-809-11	RES-CHIP	100 5% 1/16W	R3244	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3186	1-218-674-11	METAL CHIP	180 0.5% 1/16W	R3246	1-216-809-11	RES-CHIP	100 5% 1/16W
R3187	1-218-674-11	METAL CHIP	180 0.5% 1/16W	R3247	1-216-809-11	RES-CHIP	100 5% 1/16W
R3188	1-218-674-11	METAL CHIP	180 0.5% 1/16W	R3248	1-216-809-11	RES-CHIP	100 5% 1/16W
R3190	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3249	1-216-809-11	RES-CHIP	100 5% 1/16W
R3191	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W	R3250	1-216-809-11	RES-CHIP	100 5% 1/16W
R3192	1-218-672-11	METAL CHIP	150 0.5% 1/16W	R3254	1-216-809-11	RES-CHIP	100 5% 1/16W
R3193	1-218-698-11	METAL CHIP	1.8K 0.5% 1/16W	R3255	1-216-809-11	RES-CHIP	100 5% 1/16W
R3194	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3256	1-216-809-11	RES-CHIP	100 5% 1/16W
R3195	1-216-816-11	RES-CHIP	390 5% 1/16W	R3257	1-216-809-11	RES-CHIP	100 5% 1/16W
R3196	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3258	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3197	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3259	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3198	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3260	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3201	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3261	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R3202	1-216-809-11	RES-CHIP	100 5% 1/16W	R3262	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R3203	1-216-809-11	RES-CHIP	100 5% 1/16W	R3263	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3204	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3264	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3205	1-216-809-11	RES-CHIP	100 5% 1/16W	R3265	1-216-857-11	RES-CHIP	1M 5% 1/16W
R3207	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3266	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3208	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3267	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3209	1-216-809-11	RES-CHIP	100 5% 1/16W	R3268	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3210	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3269	1-216-809-11	RES-CHIP	100 5% 1/16W
R3211	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3270	1-249-382-11	CARBON	1.2 5% 1/4W
R3212	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3272	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3213	1-216-809-11	RES-CHIP	100 5% 1/16W	R3273	1-216-819-11	RES-CHIP	680 5% 1/16W
R3215	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3275	1-216-819-11	RES-CHIP	680 5% 1/16W
R3216	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3276	1-216-819-11	RES-CHIP	680 5% 1/16W
R3217	1-216-809-11	RES-CHIP	100 5% 1/16W	R3277	1-216-819-11	RES-CHIP	680 5% 1/16W
R3218	1-216-809-11	RES-CHIP	100 5% 1/16W	R3279	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3219	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3280	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3220	1-216-809-11	RES-CHIP	100 5% 1/16W	R3281	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3221	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3282	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3222	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3284	1-216-864-11	SHORT	0
R3223	1-216-809-11	RES-CHIP	100 5% 1/16W	R3285	1-216-817-11	RES-CHIP	470 5% 1/16W
R3224	1-216-809-11	RES-CHIP	100 5% 1/16W	R3286	1-218-716-11	METAL CHIP	10K 0.5% 1/16W
R3226	1-216-809-11	RES-CHIP	100 5% 1/16W	R3287	1-216-817-11	RES-CHIP	470 5% 1/16W
R3227	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3288	1-218-686-11	METAL CHIP	560 0.5% 1/16W
R3228	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3289	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3229	1-216-809-11	RES-CHIP	100 5% 1/16W	R3290	1-216-809-11	RES-CHIP	100 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3291	1-216-842-11	RES-CHIP	56K 5% 1/16W	R3342	1-220-158-11	RES-CHIP	3.6K 5% 1/16W
R3292	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3343	1-216-809-11	RES-CHIP	100 5% 1/16W
R3293	1-216-803-11	RES-CHIP	33 5% 1/16W	R3344	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3294	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3345	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W
R3296	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3346	1-216-809-11	RES-CHIP	100 5% 1/16W
R3297	1-216-841-11	RES-CHIP	47K 5% 1/16W	R3347	1-216-815-11	RES-CHIP	330 5% 1/16W
R3298	1-208-755-11	METAL CHIP	75 0.5% 1/10W	R3348	1-216-864-11	SHORT	0
R3299	1-208-755-11	METAL CHIP	75 0.5% 1/10W	R3349	1-218-687-11	METAL CHIP	620 0.5% 1/16W
R3300	1-208-755-11	METAL CHIP	75 0.5% 1/10W	R3350	1-216-814-11	RES-CHIP	270 5% 1/16W
R3301	1-216-809-11	RES-CHIP	100 5% 1/16W	R3351	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3302	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W	R3352	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3303	1-218-716-11	METAL CHIP	10K 0.5% 1/16W	R3353	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3304	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R3354	1-216-813-11	RES-CHIP	220 5% 1/16W
R3305	1-216-809-11	RES-CHIP	100 5% 1/16W	R3355	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3306	1-216-809-11	RES-CHIP	100 5% 1/16W	R3356	1-216-864-11	SHORT	0
R3307	1-216-864-11	SHORT	0	R3357	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R3308	1-216-864-11	SHORT	0	R3358	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R3309	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3359	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R3310	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3360	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R3311	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3361	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3312	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3364	1-216-864-11	SHORT	0
R3313	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3365	1-216-864-11	SHORT	0
R3314	1-211-990-11	METAL CHIP	75 0.5% 1/16W	R3367	1-216-803-11	RES-CHIP	33 5% 1/16W
R3315	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3369	1-216-864-11	SHORT	0
R3316	1-211-989-11	METAL CHIP	68 0.5% 1/16W	R3382	1-216-864-11	SHORT	0
R3317	1-211-989-11	METAL CHIP	68 0.5% 1/16W	R3401	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R3318	1-211-990-11	METAL CHIP	75 0.5% 1/16W	R3403	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R3319	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3410	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3320	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3421	1-216-295-91	SHORT	0
R3321	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3422	1-216-295-91	SHORT	0
R3322	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3423	1-216-813-11	RES-CHIP	220 5% 1/16W
R3323	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3428	1-216-019-00	RES-CHIP	56 5% 1/10W
R3324	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R3429	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R3325	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R3432	1-216-815-11	RES-CHIP	330 5% 1/16W
R3326	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3434	1-216-809-11	RES-CHIP	100 5% 1/16W
R3327	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3445	1-216-864-11	SHORT	0
R3328	1-216-864-11	SHORT	0	R3446	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3329	1-216-815-11	RES-CHIP	330 5% 1/16W	R3447	1-216-819-11	RES-CHIP	680 5% 1/16W
R3330	1-216-815-11	RES-CHIP	330 5% 1/16W	R3448	1-216-855-11	RES-CHIP	680K 5% 1/16W
R3331	1-216-841-11	RES-CHIP	47K 5% 1/16W	R3452	1-216-295-91	SHORT	0
R3332	1-218-272-11	RES-CHIP	5.1K 5% 1/16W	R3454	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3333	1-216-864-11	SHORT	0	R3460	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3334	1-216-809-11	RES-CHIP	100 5% 1/16W	R3461	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3335	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3464	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3337	1-216-820-11	RES-CHIP	820 5% 1/16W	R3465	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3338	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3467	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3339	1-216-855-11	RES-CHIP	680K 5% 1/16W	R3470	1-216-809-11	RES-CHIP	100 5% 1/16W
R3340	1-216-855-11	RES-CHIP	680K 5% 1/16W	R3471	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3341	1-216-813-11	RES-CHIP	220 5% 1/16W	R3472	1-216-801-11	RES-CHIP	22 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3475	1-216-809-11	RES-CHIP	100 5% 1/16W	R3648	1-216-805-11	RES-CHIP	47 5% 1/16W
R3476	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3649	1-216-805-11	RES-CHIP	47 5% 1/16W
R3477	1-218-676-11	METAL CHIP	220 0.5% 1/16W	R3650	1-216-817-11	RES-CHIP	470 5% 1/16W
R3478	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R3651	1-216-809-11	RES-CHIP	100 5% 1/16W
R3483	1-218-676-11	METAL CHIP	220 0.5% 1/16W	R3652	1-216-813-11	RES-CHIP	220 5% 1/16W
R3484	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3653	1-216-813-11	RES-CHIP	220 5% 1/16W
R3485	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3654	1-216-813-11	RES-CHIP	220 5% 1/16W
R3486	1-216-801-11	RES-CHIP	22 5% 1/16W	R3655	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3489	1-216-864-11	SHORT	0	R3656	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3490	1-216-864-11	SHORT	0	R3657	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3491	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3658	1-216-815-11	RES-CHIP	330 5% 1/16W
R3492	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R3659	1-216-815-11	RES-CHIP	330 5% 1/16W
R3493	1-218-676-11	METAL CHIP	220 0.5% 1/16W	R3660	1-216-815-11	RES-CHIP	330 5% 1/16W
R3495	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3661	1-216-809-11	RES-CHIP	100 5% 1/16W
R3496	1-216-801-11	RES-CHIP	22 5% 1/16W	R3662	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3497	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R3663	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3498	1-216-818-11	RES-CHIP	560 5% 1/16W	R3664	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3499	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3665	1-216-817-11	RES-CHIP	470 5% 1/16W
R3602	1-216-809-11	RES-CHIP	100 5% 1/16W	R3666	1-216-809-11	RES-CHIP	100 5% 1/16W
R3606	1-216-864-11	SHORT	0	R3667	1-216-839-11	RES-CHIP	33K 5% 1/16W
R3609	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3668	1-216-797-11	RES-CHIP	10 5% 1/16W
R3610	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3669	1-216-809-11	RES-CHIP	100 5% 1/16W
R3611	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3672	1-216-864-11	SHORT	0
R3612	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3673	1-216-809-11	RES-CHIP	100 5% 1/16W
R3613	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3674	1-216-813-11	RES-CHIP	220 5% 1/16W
R3614	1-216-813-11	RES-CHIP	220 5% 1/16W	R3675	1-216-813-11	RES-CHIP	220 5% 1/16W
R3615	1-216-809-11	RES-CHIP	100 5% 1/16W	R3676	1-216-809-11	RES-CHIP	100 5% 1/16W
R3616	1-216-805-11	RES-CHIP	47 5% 1/16W	R3677	1-216-809-11	RES-CHIP	100 5% 1/16W
R3617	1-216-805-11	RES-CHIP	47 5% 1/16W	R3678	1-216-809-11	RES-CHIP	100 5% 1/16W
R3618	1-216-817-11	RES-CHIP	470 5% 1/16W	R3679	1-216-809-11	RES-CHIP	100 5% 1/16W
R3619	1-216-809-11	RES-CHIP	100 5% 1/16W	R3680	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3620	1-216-813-11	RES-CHIP	220 5% 1/16W	R3681	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3621	1-216-813-11	RES-CHIP	220 5% 1/16W	R3682	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3622	1-216-813-11	RES-CHIP	220 5% 1/16W	R3683	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3623	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3684	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3624	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3685	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3625	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3686	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3626	1-216-815-11	RES-CHIP	330 5% 1/16W	R3687	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3627	1-216-815-11	RES-CHIP	330 5% 1/16W	R3688	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3628	1-216-815-11	RES-CHIP	330 5% 1/16W	R3689	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3630	1-216-809-11	RES-CHIP	100 5% 1/16W	R3690	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3639	1-216-864-11	SHORT	0	R3691	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3640	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3692	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3641	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3693	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3642	1-216-833-91	RES-CHIP	10K 5% 1/16W	R3694	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3644	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3695	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3645	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3696	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3646	1-216-813-11	RES-CHIP	220 5% 1/16W	R3697	1-216-833-91	RES-CHIP	10K 5% 1/16W
R3647	1-216-809-11	RES-CHIP	100 5% 1/16W	R3698	1-216-845-11	RES-CHIP	100K 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3699	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3866	1-414-234-22	INDUCTOR CHIP	0μH
R3800	1-216-864-11	SHORT	0	R3867	1-414-234-22	INDUCTOR CHIP	0μH
R3802	1-218-670-11	METAL CHIP	120 0.5% 1/16W	R3868	1-414-234-22	INDUCTOR CHIP	0μH
R3803	1-218-670-11	METAL CHIP	120 0.5% 1/16W	R3869	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R3804	1-218-670-11	METAL CHIP	120 0.5% 1/16W	R3870	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R3805	1-218-670-11	METAL CHIP	120 0.5% 1/16W	R3871	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R3806	1-211-987-11	METAL CHIP	56 0.5% 1/16W	R3872	1-211-990-11	METAL C HIP	75 0.5% 1/16W
R3807	1-211-989-11	METAL CHIP	68 0.5% 1/16W	R3873	1-211-990-11	METAL CHIP	75 0.5% 1/16W
R3808	1-211-990-11	METAL CHIP	75 0.5% 1/16W	R3874	1-211-990-11	METAL CHIP	75 0.5% 1/16W
R3809	1-211-990-11	METAL CHIP	75 0.5% 1/16W	R3901	1-216-035-00	RES-CHIP	270 5% 1/10W
R3810	1-218-668-11	METAL CHIP	100 0.5% 1/16W	R3902	1-216-035-00	RES-CHIP	270 5% 1/10W
R3811	1-216-809-11	RES-CHIP	100 5% 1/16W	R3903	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3812	1-216-809-11	RES-CHIP	100 5% 1/16W	R3904	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3813	1-216-809-11	RES-CHIP	100 5% 1/16W	R3905	1-216-809-11	RES-CHIP	100 5% 1/16W
R3814	1-211-969-11	METAL CHIP	10 0.5% 1/16W	R3906	1-216-809-11	RES-CHIP	100 5% 1/16W
R3815	1-211-973-11	METAL CHIP	15 0.5% 1/16W	R3907	1-216-809-11	RES-CHIP	100 5% 1/16W
R3816	1-211-977-11	METAL CHIP	22 0.5% 1/16W	R3908	1-216-809-11	RES-CHIP	100 5% 1/16W
R3817	1-211-977-11	METAL CHIP	22 0.5% 1/16W	R3909	1-216-809-11	RES-CHIP	100 5% 1/16W
R3820	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3910	1-216-809-11	RES-CHIP	100 5% 1/16W
R3821	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3914	1-216-864-11	SHORT	0
R3822	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3915	1-211-969-11	METAL CHIP	10 0.5% 1/16W
R3823	1-216-826-11	RES-CHIP	2.7K 5% 1/16W	R3916	1-211-969-11	METAL CHIP	10 0.5% 1/16W
R3824	1-216-826-11	RES-CHIP	2.7K 5% 1/16W	R3917	1-211-969-11	METAL CHIP	10 0.5% 1/16W
R3825	1-216-826-11	RES-CHIP	2.7K 5% 1/16W	R3923	1-412-363-21	FERRITE	0μH
R3826	1-216-809-11	RES-CHIP	100 5% 1/16W	R3924	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3828	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3925	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3829	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3926	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3830	1-218-684-11	METAL CHIP	470 0.5% 1/16W	R3933	1-216-864-11	SHORT	0
R3831	1-216-864-11	SHORT	0	R3940	1-216-864-11	SHORT	0
R3832	1-216-864-11	SHORT	0	R3942	1-216-864-11	SHORT	0
R3833	1-216-864-11	SHORT	0	R3943	1-216-864-11	SHORT	0
R3840	1-216-807-11	RES-CHIP	68 5% 1/16W	R3945	1-216-864-11	SHORT	0
R3843	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W	R3946	1-216-864-11	SHORT	0
R3844	1-218-712-11	METAL CHIP	6.8K 0.5% 1/16W	R3953	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3845	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R3954	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3846	1-216-801-11	RES-CHIP	22 5% 1/16W	R3955	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3847	1-216-801-11	RES-CHIP	22 5% 1/16W	R3956	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3848	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R3957	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3849	1-218-675-11	METAL CHIP	200 0.5% 1/16W	R3958	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3850	1-218-675-11	METAL CHIP	200 0.5% 1/16W	R3959	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3851	1-216-809-11	RES-CHIP	100 5% 1/16W	R3960	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3852	1-218-675-11	METAL CHIP	200 0.5% 1/16W	R3961	1-208-755-11	METAL CHIP	75 0.5% 1/10W
R3854	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RB3301	1-234-525-11	RES, CHIP NETWORK	56
R3857	1-216-809-11	RES-CHIP	100 5% 1/16W	RB3302	1-234-525-11	RES, CHIP NETWORK	56
R3858	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W	RB3303	1-234-525-11	RES, CHIP NETWORK	56
R3862	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RB3304	1-234-525-11	RES, CHIP NETWORK	56
R3863	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	RB3305	1-234-525-11	RES, CHIP NETWORK	56
R3864	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	RB3306	1-234-525-11	RES, CHIP NETWORK	56
R3865	1-216-809-11	RES-CHIP	100 5% 1/16W	RB3307	1-234-525-11	RES, CHIP NETWORK	56



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>FERRITE BEAD</u>							
FB3500	1-414-234-22	INDUCTOR CHIP	0μH	Q3509	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
FB3501	1-414-234-22	INDUCTOR CHIP	0μH	Q3510	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
FB3502	1-414-234-22	INDUCTOR CHIP	0μH	Q3511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3503	1-414-234-22	INDUCTOR CHIP	0μH	Q3512	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3504	1-414-234-22	INDUCTOR CHIP	0μH	Q3513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3505	1-414-234-22	INDUCTOR CHIP	0μH	Q3514	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
FB3506	1-414-234-22	INDUCTOR CHIP	0μH	Q3515	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3507	1-414-234-22	INDUCTOR CHIP	0μH	Q3516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3508	1-414-234-22	INDUCTOR CHIP	0μH	Q3517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3509	1-414-234-22	INDUCTOR CHIP	0μH	<u>RESISTOR</u>			
<u>FILTER</u>				R3500	1-216-296-91	SHORT	0
FL3500	1-239-848-21	FILTER, LOW PASS		R3501	1-216-296-91	SHORT	0
FL3501	1-239-848-21	FILTER, LOW PASS		R3502	1-216-296-91	SHORT	0
FL3502	1-239-848-21	FILTER, LOW PASS		R3503	1-216-017-91	RES-CHIP	47 5% 1/10W
FL3503	1-239-848-21	FILTER, LOW PASS		R3504	1-216-295-91	SHORT	0
FL3504	1-233-512-21	FERRITE	37μH	R3505	1-216-295-91	SHORT	0
FL3505	1-233-512-21	FERRITE	37μH	R3506	1-216-295-91	SHORT	0
FL3506	1-233-512-21	FERRITE	37μH	R3507	1-216-295-91	SHORT	0
<u>IC</u>				R3508	1-216-295-91	SHORT	0
IC3500	8-759-568-27	IC UPD424210LE-60-E2		R3509	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC3501	8-759-594-44	IC UPD64082GF-3BA		R3510	1-216-041-00	RES-CHIP	470 5% 1/10W
IC3502	8-759-583-47	IC UPC2933T-E1		R3511	1-216-041-00	RES-CHIP	470 5% 1/10W
<u>COIL</u>				R3512	1-216-295-91	SHORT	0
L3500	1-414-265-21	INDUCTOR	4.7μH	R3514	1-216-025-91	RES-CHIP	100 5% 1/10W
L3501	1-414-267-11	INDUCTOR	10μH	R3515	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
L3502	1-414-267-11	INDUCTOR	10μH	R3516	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
L3503	1-414-267-11	INDUCTOR	10μH	R3517	1-216-025-91	RES-CHIP	100 5% 1/10W
L3504	1-414-267-11	INDUCTOR	10μH	R3518	1-216-025-91	RES-CHIP	100 5% 1/10W
L3505	1-414-267-11	INDUCTOR	10μH	R3519	1-216-295-91	SHORT	0
<u>TRANSISTOR</u>				R3520	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q3500	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3521	1-216-041-00	RES-CHIP	470 5% 1/10W
Q3501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3522	1-216-041-00	RES-CHIP	470 5% 1/10W
Q3502	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3523	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q3503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3524	1-216-089-91	RES-CHIP	47K 5% 1/10W
Q3504	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3525	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3526	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q3506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3527	1-216-033-00	RES-CHIP	220 5% 1/10W
Q3508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3528	1-216-645-11	METAL CHIP	560 0.5% 1/10W
				R3529	1-216-641-11	METAL CHIP	390 0.5% 1/10W
				R3530	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
				R3531	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R3532	1-216-025-91	RES-CHIP	100 5% 1/10W
				R3533	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R3535	1-216-025-91	RES-CHIP	100 5% 1/10W
				R3538	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R3539	1-216-043-91	RES-CHIP	560 5% 1/10W
				R3540	1-216-049-91	RES-CHIP	1K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3541	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C9004	1-162-114-00	CERAMIC	0.0047μF 2KV
R3542	1-216-043-91	RES-CHIP	560 5% 1/10W	C9005	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3543	1-216-049-91	RES-CHIP	1K 5% 1/10W	C9006	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3544	1-216-049-91	RES-CHIP	1K 5% 1/10W	C9007	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3545	1-216-043-91	RES-CHIP	560 5% 1/10W	C9008	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3547	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C9009	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3548	1-216-295-91	SHORT	0	C9010	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3549	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C9011	1-161-830-00	CERAMIC	0.0047μF 500V
R3550	1-216-649-11	METAL CHIP	820 0.5% 1/10W	C9012	1-161-830-00	CERAMIC	0.0047μF 500V
R3551	1-216-043-91	RES-CHIP	560 5% 1/10W	C9013	1-163-035-00	CERAMIC CHIP	0.047μF 50V
R3552	1-216-031-00	RES-CHIP	180 5% 1/10W	C9014	1-161-830-00	CERAMIC	0.0047μF 500V
R3553	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C9015	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V
R3554	1-216-047-91	RES-CHIP	820 5% 1/10W	C9018	1-107-961-91	ELECT	10μF 20% 250V
R3555	1-216-075-00	RES-CHIP	12K 5% 1/10W	C9019	1-163-035-00	CERAMIC CHIP	0.047μF 50V
R3556	1-216-085-00	RES-CHIP	33K 5% 1/10W	C9020	1-107-961-91	ELECT	10μF 20% 250V
R3557	1-216-049-91	RES-CHIP	1K 5% 1/10W	C9021	1-107-961-91	ELECT	10μF 20% 250V
R3558	1-216-017-91	RES-CHIP	47 5% 1/10W	C9022	1-101-004-00	CERAMIC	0.01μF 50V
R3559	1-216-295-91	SHORT	0	C9023	1-101-004-00	CERAMIC	0.01μF 50V
R3560	1-216-049-91	RES-CHIP	1K 5% 1/10W	C9024	1-163-035-00	CERAMIC CHIP	0.047μF 50V
R3561	1-216-043-91	RES-CHIP	560 5% 1/10W	C9025	1-104-653-11	ELECT	220μF 20% 16V
R3563	1-216-295-91	SHORT	0	C9026	1-163-035-00	CERAMIC CHIP	0.047μF 50V
R3564	1-216-295-91	SHORT	0	C9027	1-101-004-00	CERAMIC	0.01μF 50V
R3565	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C9028	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
R3566	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C9029	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
R3567	1-216-043-91	RES-CHIP	560 5% 1/10W	C9030	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V
R3568	1-216-047-91	RES-CHIP	820 5% 1/10W	C9031	1-162-116-00	CERAMIC	680pF 10% 2KV
R3569	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C9032	1-162-116-00	CERAMIC	680pF 10% 2KV
R3570	1-216-085-00	RES-CHIP	33K 5% 1/10W	C9033	1-107-662-11	ELECT	22μF 20% 250V
R3571	1-216-075-00	RES-CHIP	12K 5% 1/10W	C9035	1-126-933-11	ELECT	100μF 20% 16V
R3572	1-216-049-91	RES-CHIP	1K 5% 1/10W	C9036	1-126-964-11	ELECT	10μF 20% 50V
R3573	1-216-017-91	RES-CHIP	47 5% 1/10W	C9037	1-126-961-11	ELECT	2.2μF 20% 50V
R3588	1-216-043-91	RES-CHIP	560 5% 1/10W	C9038	1-126-963-11	ELECT	4.7μF 20% 50V
				C9042	1-126-940-11	ELECT	330μF 20% 25V
				C9046	1-126-933-11	ELECT	100μF 20% 16V
				C9047	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V

CRYSTAL

X3500 1-767-606-11 VIBRATOR, CRYSTAL



* A-1332-075-A C BOARD, COMPLETE

7-682-647-09 SCREW +PS 3X6

CAPACITOR

C9001	1-126-940-11	ELECT	330μF	20%	25V
C9002	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
C9003	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V

CONNECTOR

CN9001*	1-764-333-11	PLUG, CONNECTOR 10P
CN9002*	1-766-242-11	PIN, CONNECTOR (PC BOARD) 4P
CN9003	1-695-915-11	TAB (CONTACT)
CN9004	1-695-915-11	TAB (CONTACT)

DIODE

D9001	8-719-991-33	DIODE 1SS133T-77
D9002	8-719-400-75	DIODE MA3091-TX
D9003	8-719-991-33	DIODE 1SS133T-77
D9005	8-719-073-01	DIODE MA111-TX
D9006	8-719-051-85	DIODE HSS83TD



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D9007	8-719-051-85	DIODE HSS83TD		R9008	1-216-085-00	RES-CHIP	33K 5% 1/10W
D9008	8-719-051-85	DIODE HSS83TD		R9009	1-249-429-11	CARBON	10K 5% 1/4W
D9009	8-719-908-03	DIODE GP08DPKG23		R9010	1-249-429-11	CARBON	10K 5% 1/4W
D9010	8-719-110-17	DIODE MTZJ-T-77-10		R9012	1-249-417-11	CARBON	1K 5% 1/4W
D9013	8-719-991-33	DIODE 1SS133T-77		R9013	1-216-049-91	RES-CHIP	1K 5% 1/10W
D9014	8-719-991-33	DIODE 1SS133T-77		R9014	1-249-409-11	CARBON	220 5% 1/4W
D9015	8-719-991-33	DIODE 1SS133T-77		R9015	1-249-409-11	CARBON	220 5% 1/4W
D9016	8-719-991-33	DIODE 1SS133T-77		R9016	1-249-409-11	CARBON	220 5% 1/4W
D9017	8-719-991-33	DIODE 1SS133T-77		R9018	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
				R9019	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
				R9026	1-216-658-11	METAL CHIP	2K 0.5% 1/10W
				R9031	1-216-658-11	METAL CHIP	2K 0.5% 1/10W
				R9033	1-215-447-00	METAL	12K 1% 1/4W
				R9034	1-215-439-00	METAL	5.6K 1% 1/4W
				R9035	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
				R9036	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9037	1-240-233-71	METAL OXIDE	100 5% 3W
				R9038	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
				R9039	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
				R9041	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9042	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9043	1-240-233-71	METAL OXIDE	100 5% 3W
				R9044	1-240-233-71	METAL OXIDE	100 5% 3W
				R9047	1-202-557-00	SOLID	220 20% 1/2W
				R9048	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9049	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9050	1-249-424-11	CARBON	3.9K 5% 1/4W
				R9051	1-202-557-00	SOLID	220 20% 1/2W
				R9052	1-202-557-00	SOLID	220 20% 1/2W
				R9053	1-249-424-11	CARBON	3.9K 5% 1/4W
				R9054	1-249-424-11	CARBON	3.9K 5% 1/4W
				R9055	1-260-126-81	CARBON	180K 5% 1/2W
				R9056	1-202-549-00	SOLID	100 20% 1/2W
				R9057	1-202-847-00	SOLID	560K 20% 1/2W
				R9059	1-202-818-00	SOLID	1K 20% 1/2W
				R9061	1-202-549-00	SOLID	100 20% 1/2W
				R9062	1-260-123-11	CARBON	100K 5% 1/2W
				R9063	1-260-123-11	CARBON	100K 5% 1/2W
				R9064	1-260-126-81	CARBON	180K 5% 1/2W
				R9065	1-249-425-11	CARBON	4.7K 5% 1/4W
				R9067	1-219-769-11	CARBON	3.3M 5% 1/2W
				R9068	1-216-101-00	RES-CHIP	150K 5% 1/10W
				R9070	1-249-411-11	CARBON	330 5% 1/4W
				R9071	1-249-411-11	CARBON	330 5% 1/4W
				R9072	1-249-411-11	CARBON	330 5% 1/4W
				R9073	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R9076	1-219-769-11	CARBON	3.3M 5% 1/2W
				R9077	1-249-417-11	CARBON	1K 5% 1/4W
				R9078	1-249-427-11	CARBON	6.8K 5% 1/4W
IC							
IC9001	8-759-360-83	IC TDA6111Q/N4					
IC9002	8-759-360-83	IC TDA6111Q/N4					
IC9003	8-759-360-83	IC TDA6111Q/N4					
JACK							
J9001	1-451-470-21	SOCKET, CRT					
COIL							
L9002	1-408-591-11	INDUCTOR	1μH				
L9003	1-408-591-11	INDUCTOR	1μH				
L9004	1-408-591-11	INDUCTOR	1μH				
L9005	1-406-666-21	INDUCTOR	150μH				
L9006	1-412-526-11	INDUCTOR	12μH				
TRANSISTOR							
Q9001	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q9002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA					
Q9003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					
Q9004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					
Q9005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					
Q9008	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA					
Q9009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q9010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q9011	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q9012	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA					
Q9014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7					
RESISTOR							
R9001	1-216-059-00	RES-CHIP	2.7K	5%	1/10W		
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W		
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W		
R9006	1-249-429-11	CARBON	10K	5%	1/4W		
R9007	1-216-658-11	METAL CHIP	2K	0.5%	1/10W		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R9079	1-249-426-11	CARBON	5.6K 5% 1/4W	C5027	1-126-963-11	ELECT	4.7μF 20% 50V
R9081	1-247-843-11	CARBON	3.3K 5% 1/4W	C5028	1-126-963-11	ELECT	4.7μF 20% 50V
R9083	1-249-436-11	CARBON	39K 5% 1/4W	C5030	1-136-153-00	MYLAR	0.01μF 5% 50V
R9084	1-260-126-81	CARBON	180K 5% 1/2W	C5031	1-163-011-11	CERAMIC CHIP	0.0015μF 10% 50V
R9085	1-260-126-81	CARBON	180K 5% 1/2W	C5032	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
R9089	1-215-445-00	METAL	10K 1% 1/4W	C5033	1-136-165-00	MYLAR	0.1μF 5% 50V
R9091	1-215-429-00	METAL	2.2K 1% 1/4W	C5034	1-162-114-00	CERAMIC	0.0047μF 2KV
VARIABLE RESISTOR				C5035	1-126-933-11	ELECT	100μF 20% 16V
RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M		C5036	1-126-941-11	ELECT	470μF 20% 25V
RV9002	1-241-788-11	RES, ADJ, CARBON 100K		C5037	1-107-670-11	ELECT	10μF 20% 400V
D				C5038	1-104-664-11	ELECT	47μF 20% 16V
* A-1346-947-A	D BOARD, COMPLETE (KV-32XBR400 only)			C5040	1-126-935-11	ELECT	470μF 20% 16V
* A-1346-948-A	D BOARD, COMPLETE (KV-36XBR400/ 38DRC1 only)			C5041	1-126-935-11	ELECT	470μF 20% 16V
* A-1346-956-A	D BOARD, COMPLETE (KV-38DRC1C only)			C5043	1-126-767-11	ELECT	1000μF 20% 16V
4-047-285-01	SHEET, INSULATING			C5044	1-165-319-11	CERAMIC CHIP	0.1μF 50V
4-382-854-01	SCREW (M3X8), P, SW (+)			C5045	1-165-319-11	CERAMIC CHIP	0.1μF 50V
CAPACITOR				C5046	1-163-025-11	CERAMIC CHIP	0.001μF 50V
C5001	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C5047	1-163-025-11	CERAMIC CHIP	0.001μF 50V
C5002	1-106-383-00	MYLAR	0.047μF 10% 200V	C5049	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
C5004	1-106-383-00	MYLAR	0.047μF 10% 200V	C5050	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C5005	1-126-235-11	ELECT	100μF 20% 6.3V	C5051	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5006	1-126-964-11	ELECT	10μF 20% 50V	C5052	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5007	1-126-941-11	ELECT	470μF 20% 25V	C5053	1-107-372-11	MYLAR	0.22μF 10% 200V
C5008	1-126-940-11	ELECT	330μF 20% 25V	C5056	1-162-318-11	CERAMIC	0.001μF 10% 500V
C5009	1-126-941-11	ELECT	470μF 20% 25V	C5057	1-162-134-11	CERAMIC	470pF 10% 2KV
C5010	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C5058	1-162-116-00	CERAMIC	680pF 10% 2KV
C5011	1-107-641-11	ELECT	220μF 20% 160V	C5059	1-162-116-00	CERAMIC	680pF 10% 2KV
C5012	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C5060	1-137-417-11	MYLAR	0.0047μF 10% 200V
C5013	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C5061	1-117-839-11	FILM	9100pF 3% 1.5KV
C5014	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C5063	1-117-839-11	FILM	9100pF 3% 1.5KV
C5015	1-107-884-11	ELECT	1000μF 20% 16V	C5064	1-115-520-11	FILM	0.68μF 5% 250V
C5016	1-136-171-00	MYLAR	0.33μF 5% 50V	C5065	1-107-506-11	FILM	0.68μF 3% 400V
C5017	1-115-185-11	CERAMIC CHIP	0.033μF 10% 50V	C5066	1-109-921-11	CERAMIC	0.0015μF 10% 500V
C5018	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C5069	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5019	1-126-968-11	ELECT	100μF 20% 50V	C5070	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5020	1-126-767-11	ELECT	1000μF 20% 16V	C5071	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5021	1-163-133-00	CERAMIC CHIP	470pF 5% 50V	C5072	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C5022	1-137-368-11	MYLAR	0.0047μF 5% 50V	C5073	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
C5023	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C5075	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5024	1-102-038-00	CERAMIC	0.001μF 500V	C5076	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5025	1-130-471-00	MYLAR	0.001μF 5% 50V	C5077	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
C5026	1-107-655-11	ELECT	47μF 20% 250V	C5079	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C5102	1-107-888-11	ELECT	47μF 20% 25V
				C5501	1-107-888-11	ELECT	47μF 20% 25V
				C5502	1-126-941-11	ELECT	470μF 20% 25V
				C5503	1-104-665-11	ELECT	100μF 20% 25V
				C5504	1-104-664-11	ELECT	47μF 20% 16V
				C5505	1-126-964-11	ELECT	10μF 20% 50V
				C5506	1-126-963-11	ELECT	4.7μF 20% 50V



Note:

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

Note:

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C5507	1-163-141-00	CERAMIC CHIP	0.001 μ F 5% 50V	C6517	1-126-963-11	ELECT	4.7 μ F 20% 50V
C5508	1-163-031-11	CERAMIC CHIP	0.01 μ F 50V	C6518	1-136-479-11	FILM	0.001 μ F 2% 50V
C5509	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C6519	1-126-964-11	ELECT	10 μ F 20% 50V
C5511	1-126-933-11	ELECT	100 μ F 20% 16V	C6525	1-164-143-11	CERAMIC	0.001 μ F 10% 1KV
C5514	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C6526	1-164-143-11	CERAMIC	0.001 μ F 10% 1KV
C5518	1-129-709-91	FILM	0.0039 μ F 5% 630V	C6532	1-135-998-81	FILM	56000pF 3% 800V
C5519	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V	C6544	1-107-855-12	ELECT(BLOCK)	330 μ F 160V
C5522	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C6545	1-126-943-11	ELECT	2200 μ F 20% 25V
C5531	1-136-165-00	MYLAR	0.1 μ F 5% 50V	C6546	1-128-548-11	ELECT	4700 μ F 20% 25V
C5533	1-137-366-11	MYLAR	0.0022 μ F 5% 50V	C6547	1-113-610-11	ELECT(BLOCK)	220 μ F 20% 250V
C5542	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V	C6548	1-128-549-11	ELECT	3300 μ F 20% 35V
C5548	1-137-194-81	MYLAR	0.47 μ F 5% 50V	C6551	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C5550	1-129-716-00	FILM	0.015 μ F 5% 200V	C6561	1-126-960-11	ELECT	1 μ F 20% 50V
C5576	1-104-666-11	ELECT	220 μ F 20% 25V	C6584 Δ	1-136-344-11	MYLAR	0.047 μ F 20% 125V
C5577	1-104-666-11	ELECT	220 μ F 20% 25V				(except KV-38DRC1C)
C5587	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V	C6584 Δ	1-136-344-11	MYLAR	0.047 μ F 20% 300V
C5588	1-136-153-00	MYLAR	0.01 μ F 5% 50V				(KV-38DRC1C only)
C5590	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C6584 Δ	1-136-344-11	MYLAR	0.047 μ F 20% 125V
C5592	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C6585 Δ	1-119-899-51	CERAMIC	1000pF 10% 250V
C5594	1-136-165-00	MYLAR	0.1 μ F 5% 50V	C6586	1-161-964-91	CERAMIC	0.0047 μ F 250V
C5596	1-126-960-11	ELECT	1 μ F 20% 50V	C6587	1-161-964-91	CERAMIC	0.0047 μ F 250V
C5598	1-104-664-11	ELECT	47 μ F 20% 16V	C6588	1-161-964-91	CERAMIC	0.0047 μ F 250V
C5600	1-104-664-11	ELECT	47 μ F 20% 16V	C6589	1-161-964-91	CERAMIC	0.0047 μ F 250V
C5601	1-136-165-00	MYLAR	0.1 μ F 5% 50V	C6590	1-131-940-11	ELECT	1200 μ F 20% 250V
C5602	1-104-664-11	ELECT	47 μ F 20% 16V	C6591 Δ	1-119-899-51	CERAMIC	1000pF 10% 250V
C5603	1-163-017-00	CERAMIC CHIP	0.0047 μ F 10% 50V	C6594	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C5605	1-136-177-00	MYLAR	1 μ F 5% 50V	C6595	1-104-665-11	ELECT	100 μ F 20% 25V
C5607	1-115-185-11	CERAMIC CHIP	0.033 μ F 10% 50V	C6596	1-126-960-11	ELECT	1 μ F 20% 50V
C5609	1-104-665-11	ELECT	100 μ F 20% 25V	C8002	1-136-169-00	MYLAR	0.22 μ F 5% 50V
C5610	1-126-935-11	ELECT	470 μ F 20% 16V	C8004	1-104-665-11	ELECT	100 μ F 20% 10V
C5611	1-163-038-91	CERAMIC CHIP	0.1 μ F 25V	C8005	1-104-664-11	ELECT	47 μ F 20% 25V
C5612	1-126-964-11	ELECT	10 μ F 20% 50V	C8006	1-126-960-11	ELECT	1 μ F 20% 50V
C5613	1-115-185-11	CERAMIC CHIP	0.033 μ F 10% 50V	C8007	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C5614	1-126-964-11	ELECT	10 μ F 20% 50V	C8009	1-126-964-11	ELECT	10 μ F 20% 50V
C5616	1-136-165-00	MYLAR	0.1 μ F 5% 50V	C8011	1-126-961-11	ELECT	2.2 μ F 20% 50V
C5617	1-104-664-11	ELECT	47 μ F 20% 16V	C8012	1-126-966-11	ELECT	33 μ F 20% 50V
C5618	1-136-171-00	MYLAR	0.33 μ F 5% 50V	C8013	1-126-964-11	ELECT	10 μ F 20% 50V
C5619	1-163-127-00	CERAMIC CHIP	270pF 5% 50V	C8014	1-126-964-11	ELECT	10 μ F 20% 50V
C5621	1-136-165-00	MYLAR	0.1 μ F 5% 50V	C8015	1-126-966-11	ELECT	33 μ F 20% 50V
C5623	1-126-933-11	ELECT	100 μ F 20% 16V	C8016	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C5625	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C8017	1-126-964-11	ELECT	10 μ F 20% 50V
C5628	1-126-933-11	ELECT	100 μ F 20% 16V	C8018	1-126-964-11	ELECT	10 μ F 20% 50V
C6503	1-131-940-11	ELECT	1200 μ F 20% 250V	C8019	1-104-665-11	ELECT	100 μ F 20% 10V
C6504	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C8020	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C6507	1-126-967-11	ELECT	47 μ F 20% 50V	C8021	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C6508	1-104-664-11	ELECT	47 μ F 20% 25V	C8022	1-126-933-11	ELECT	100 μ F 20% 16V
C6510	1-130-495-00	MYLAR	0.1 μ F 5% 50V	C8023	1-113-611-11	ELECT(BLOCK)	820 μ F 20% 250V
C6511	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C8024	1-126-967-11	ELECT	47 μ F 20% 50V
C6516	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C8025	1-104-664-11	ELECT	47 μ F 20% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q8022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R5051	1-249-414-11	CARBON	560 5% 1/4W
Q8023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5052	1-214-796-00	METAL	1.5 1% 1/2W
RESISTOR				R5053	1-215-890-11	METAL OXIDE	470 5% 2W
R5001	1-216-001-00	RES-CHIP	10 5% 1/10W	R5054	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5002	1-216-033-00	RES-CHIP	220 5% 1/10W	R5055	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5003	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5056	1-216-105-91	RES-CHIP	220K 5% 1/10W
R5004	1-216-099-00	RES-CHIP	120K 5% 1/10W	R5057	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5005	1-216-033-00	RES-CHIP	220 5% 1/10W	R5058	1-216-113-00	RES-CHIP	470K 5% 1/10W
R5007	1-216-099-00	RES-CHIP	120K 5% 1/10W	R5059	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5008	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5063	1-208-813-11	METAL CHIP	20K 0.5% 1/10W
R5009	1-216-099-00	RES-CHIP	120K 5% 1/10W	R5064	1-218-761-11	METAL CHIP	240K 0.5% 1/10W
R5011	1-216-099-00	RES-CHIP	120K 5% 1/10W	R5065	1-218-761-11	METAL CHIP	240K 0.5% 1/10W
R5012	1-208-814-91	METAL CHIP	22K 0.5% 1/10W	R5066	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W
R5013	1-216-393-00	METAL OXIDE	2.2 5% 3W	R5067	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W
R5014	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W	R5068	1-216-105-91	RES-CHIP	220K 5% 1/10W
R5016	1-208-832-11	METAL CHIP	120K 0.5% 1/10W	R5069	1-216-113-00	RES-CHIP	470K 5% 1/10W
R5017	1-208-832-11	METAL CHIP	120K 0.5% 1/10W	R5070	1-216-113-00	RES-CHIP	470K 5% 1/10W
R5018	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5071	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5019	1-249-429-11	CARBON	10K 5% 1/4W	R5072	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5020	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R5073	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5021	1-208-826-11	METAL CHIP	68K 0.5% 1/10W	R5074	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5022	1-208-816-11	METAL CHIP	27K 0.5% 1/10W	R5075	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5023	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5076	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5024	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5077	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R5025	1-208-800-11	METAL CHIP	5.6K 0.5% 1/10W	R5078	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5026	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5079	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5027	1-208-826-11	METAL CHIP	68K 0.5% 1/10W	R5080	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5028	1-208-822-11	METAL CHIP	47K 0.5% 1/10W	R5081	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5029	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R5082	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5030	1-216-295-91	SHORT	0	R5083	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R5031	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R5084	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5033	1-216-025-91	RES-CHIP	100 5% 1/10W	R5085	1-216-113-00	RES-CHIP	470K 5% 1/10W
R5036	1-216-085-00	RES-CHIP	33K 5% 1/10W	R5086	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5037	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5087	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5038	1-216-075-00	RES-CHIP	12K 5% 1/10W	R5088	1-216-049-91	RES-CHIP	1K 5% 1/10W
R5039	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5089	1-216-372-11	METAL OXIDE	1.8 5% 2W
R5040	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5090	1-216-372-11	METAL OXIDE	1.8 5% 2W
R5041	1-249-383-11	CARBON	1.5 5% 1/4W	R5091	1-249-389-11	CARBON	4.7 5% 1/4W
R5042	1-216-081-00	RES-CHIP	22K 5% 1/10W	R5092	1-216-049-91	RES-CHIP	1K 5% 1/10W
R5043	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R5093	1-208-807-11	METAL CHIP	11K 0.5% 1/10W
R5044	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5094	1-215-869-11	METAL OXIDE	1K 5% 1W
R5045	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5095	1-249-443-11	CARBON	0.47 5% 1/4W
R5046	1-214-798-21	METAL	1.8 1% 1/2W	R5096	1-249-443-11	CARBON	0.47 5% 1/4W
R5047	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5097	1-249-380-11	CARBON	0.82 5% 1/4W
R5048	1-208-802-11	METAL CHIP	6.8K 0.5% 1/10W	R5098	1-249-379-11	CARBON	0.68 5% 1/4W
R5049	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5101	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R5050	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5102	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
				R5103	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W
				R5104	1-216-073-00	RES-CHIP	10K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5105	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5156	1-216-089-91	RES-CHIP	47K 5% 1/10W
R5106	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5157	1-216-089-91	RES-CHIP	47K 5% 1/10W
R5107	1-249-401-11	CARBON	47 5% 1/4W	R5158	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5108	1-208-819-11	METAL CHIP	36K 0.5% 1/10W	R5159	1-216-025-91	RES-CHIP	100 5% 1/10W
R5109	1-208-808-11	METAL CHIP	12K 0.5% 1/10W	R5160	1-216-025-91	RES-CHIP	100 5% 1/10W
R5110	1-249-401-11	CARBON	47 5% 1/4W	R5161	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R5111	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5163	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R5112	1-216-033-00	RES-CHIP	220 5% 1/10W	R5164	1-260-288-11	CARBON	0.47 5% 1/2W
R5113	1-249-425-11	CARBON	4.7K 5% 1/4W	R5501	1-216-033-00	RES-CHIP	220 5% 1/10W
R5114	1-249-425-11	CARBON	4.7K 5% 1/4W	R5502	1-216-295-91	SHORT	0
R5115	1-249-417-11	CARBON	1K 5% 1/4W	R5503	1-216-017-91	RES-CHIP	47 5% 1/10W
R5116	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5504	1-208-840-11	METAL CHIP	270K 0.5% 1/10W
R5117	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	R5505	1-208-840-11	METAL CHIP	270K 0.5% 1/10W
R5120	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5506	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5121	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5507	1-216-017-91	RES-CHIP	47 5% 1/10W
R5122	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5508	1-216-025-91	RES-CHIP	100 5% 1/10W
R5123	1-216-295-91	SHORT	0	R5509	1-216-025-91	RES-CHIP	100 5% 1/10W
R5124	1-216-295-91	SHORT	0	R5510	1-216-025-91	RES-CHIP	100 5% 1/10W
R5125	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5511	1-216-295-91	SHORT	0
R5126	1-216-025-91	RES-CHIP	100 5% 1/10W	R5512	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5127	1-215-890-11	METAL OXIDE	470 5% 2W	R5513	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5128	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5514	1-216-295-91	SHORT	0
R5129	1-216-025-91	RES-CHIP	100 5% 1/10W	R5516	1-208-792-11	METAL CHIP	2.7K 0.5% 1/10W
R5130	1-249-401-11	CARBON	47 5% 1/4W	R5518	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R5131	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W	R5519	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R5132	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5520	1-208-816-11	METAL CHIP	27K 0.5% 1/10W
R5133	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5521	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5134	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5522	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5135	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5523	1-208-822-11	METAL CHIP	47K 0.5% 1/10W
R5136	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5525	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5137	1-216-481-11	METAL OXIDE	1.2K 5% 3W	R5526	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5138	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5527	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5139	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5528	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5140	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R5529	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5141	1-215-915-11	METAL OXIDE	470 5% 3W	R5530	1-216-025-91	RES-CHIP	100 5% 1/10W
R5142	1-216-386-11	METAL OXIDE	0.56 5% 3W	R5531	1-216-001-00	RES-CHIP	10 5% 1/10W
R5143	1-216-385-11	METAL OXIDE	0.47 5% 3W	R5532	1-216-001-00	RES-CHIP	10 5% 1/10W
R5144	1-216-385-11	METAL OXIDE	0.47 5% 3W	R5535	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R5145	1-215-880-00	METAL OXIDE	10 5% 2W	R5536	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5146	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5544	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
R5147	1-208-794-11	METAL CHIP	3.3K 0.5% 1/10W	R5545	1-208-818-11	METAL CHIP	33K 0.5% 1/10W
R5148	1-215-865-11	METAL OXIDE	220 5% 1W	R5547	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5149	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5548	1-216-089-91	RES-CHIP	47K 5% 1/10W
R5150	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5554	1-208-812-11	METAL CHIP	18K 0.5% 1/10W
R5151	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5563	1-208-801-11	METAL CHIP	6.2K 0.5% 1/10W
R5152	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5564	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5153	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5565	1-208-830-11	METAL CHIP	100K 0.5% 1/10W
R5154	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5573	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5155	1-216-081-00	RES-CHIP	22K 5% 1/10W	R5576	1-249-395-11	CARBON	15 5% 1/4W



Note:

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

Note:

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5577	1-208-836-11	METAL CHIP	180K 0.5% 1/10W	R5717	1-216-093-91	RES-CHIP	68K 5% 1/10W
R5578	1-208-812-11	METAL CHIP	18K 0.5% 1/10W	R6501	1-208-757-11	METAL CHIP	91 0.5% 1/10W
R5579	1-216-113-00	RES-CHIP	470K 5% 1/10W	R6502	1-260-131-11	CARBON	470K 5% 1/2W
R5581	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R6503	1-208-758-11	METAL CHIP	100 0.5% 1/10W
R5585	1-208-846-11	METAL CHIP	470K 0.5% 1/10W	R6504	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5588	1-216-353-00	METAL OXIDE	2.2 5% 1W	R6506	1-249-377-11	CARBON	0.47 5% 1/4W
R5599	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6507	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5615	1-249-395-11	CARBON	15 5% 1/4W	R6508	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5623	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6509	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5645	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6510	1-215-859-00	METAL OXIDE	22 5% 1W
R5647	1-208-758-11	METAL CHIP	100 0.5% 1/10W	R6511	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5648	1-216-385-11	METAL OXIDE	0.47 5% 3W	R6512	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5649	1-215-886-11	METAL OXIDE	100 5% 2W	R6513	1-215-481-00	METAL	330K 1% 1/4W
R5650	1-216-089-91	RES-CHIP	47K 5% 1/10W	R6514	1-215-481-00	METAL	330K 1% 1/4W
R5657	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6515	1-260-131-11	CARBON	470K 5% 1/2W
R5666	1-216-091-00	RES-CHIP	56K 5% 1/10W	R6516 Δ	1-202-962-11	CEMENTED	3.3 5% 10W
R5669	1-208-789-11	METAL CHIP	2K 0.5% 1/10W	R6517	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R5670	1-208-820-11	METAL CHIP	39K 0.5% 1/10W	R6518	1-208-810-11	METAL CHIP	15K 0.5% 1/10W
R5672	1-216-109-00	RES-CHIP	330K 5% 1/10W	R6519	1-216-295-91	SHORT	0
R5678	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R6521	1-260-328-11	CARBON	1K 5% 1/2W
R5679	1-249-395-11	CARBON	15 5% 1/4W	R6522	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5680	1-249-383-11	CARBON	1.5 5% 1/4W	R6523	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5684	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6524	1-216-295-91	SHORT	0
R5685	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W	R6525	1-216-041-00	RES-CHIP	470 5% 1/10W
R5686	1-208-778-11	METAL CHIP	680 0.5% 1/10W	R6526	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R5688	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R6527	1-216-093-91	RES-CHIP	68K 5% 1/10W
R5689	1-216-017-91	RES-CHIP	47 5% 1/10W	R6528	1-216-025-91	RES-CHIP	100 5% 1/10W
R5690	1-216-017-91	RES-CHIP	47 5% 1/10W	R6529	1-249-393-11	CARBON	10 5% 1/4W
R5692	1-216-655-11	METAL CHIP	1.5K 0.5% 1/10W	R6530	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5693	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6531	1-249-393-11	CARBON	10 5% 1/4W
R5694	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W	R6532	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5696	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R6533	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5697	1-208-764-11	METAL CHIP	180 0.5% 1/10W	R6534	1-216-085-00	RES-CHIP	33K 5% 1/10W
R5698	1-208-801-11	METAL CHIP	6.2K 0.5% 1/10W	R6535	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5699	1-216-081-00	RES-CHIP	22K 5% 1/10W	R6536	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5700	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R6537	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5702	1-208-782-11	METAL CHIP	1K 0.5% 1/10W	R6538	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5704	1-214-657-11	METAL	1 1% 1/4W	R6539	1-215-877-11	METAL OXIDE	22K 5% 1W
R5705	1-214-657-11	METAL	1 1% 1/4W	R6540	1-216-049-91	RES-CHIP	1K 5% 1/10W
R5707	1-216-017-91	RES-CHIP	47 5% 1/10W	R6541	1-216-077-91	RES-CHIP	15K 5% 1/10W
R5708	1-216-429-00	METAL OXIDE	270 5% 1W	R6542	1-216-049-91	RES-CHIP	1K 5% 1/10W
R5709	1-216-017-91	RES-CHIP	47 5% 1/10W	R6543	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R5710	1-216-429-00	METAL OXIDE	270 5% 1W	R6544	1-216-295-91	SHORT	0
R5711	1-260-288-11	CARBON	0.47 5% 1/2W	R6547	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R5712	1-260-288-11	CARBON	0.47 5% 1/2W	R6550	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5713	1-215-867-00	METAL OXIDE	470 5% 1W	R6552	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5714	1-216-097-91	RES-CHIP	100K 5% 1/10W	R6553	1-216-109-00	RES-CHIP	330K 5% 1/10W
R5715	1-216-097-91	RES-CHIP	100K 5% 1/10W	R6556	1-217-625-00	METAL	0.05 10% 2W
R5716	1-216-049-91	RES-CHIP	1K 5% 1/10W	R6557	1-216-097-91	RES-CHIP	100K 5% 1/10W

Note:

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

Note:

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R6583	1-216-077-91	RES-CHIP	15K 5% 1/10W	R8037 \triangle	1-215-444-00	METAL	9.1K 1% 1/4W
R6590	1-249-415-11	CARBON	680 5% 1/4W	R8038 \triangle	1-215-444-00	METAL	9.1K 1% 1/4W
R6591	1-216-341-11	METAL OXIDE	0.22 5% 1W	R8039 \triangle	1-215-444-00	METAL	9.1K 1% 1/4W
R6593	1-249-405-11	CARBON	100 5% 1/4W	R8040 \triangle	1-215-444-00	METAL	9.1K 1% 1/4W
R6596	1-215-445-00	METAL	10K 1% 1/4W	R8041	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R6597	1-215-469-00	METAL	100K 1% 1/4W	R8042	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R6598	1-216-342-21	METAL OXIDE	0.27 5% 1W	R8043	1-216-349-00	METAL OXIDE	1 5% 1W
R6599	1-249-417-11	CARBON	1K 5% 1/4W	R8044	1-208-837-11	METAL CHIP	200K 0.5% 1/10W
R6600	1-215-445-00	METAL	10K 1% 1/4W	R8047	1-216-097-91	RES-CHIP	100K 5% 1/10W
R6602	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8049	1-208-758-11	METAL CHIP	100 0.5% 1/10W
R6603	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8050	1-211-964-11	METAL CHIP	33 0.5% 1/10W
R6604	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8051	1-220-926-11	FUSIBLE	0.47 10% 1/2W
R6605	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8053	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R6612	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8054	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R6614	1-260-298-51	CARBON	3.3 5% 1/2W	R8055	1-208-842-11	METAL CHIP	330K 0.5% 1/10W
R6646	1-215-481-00	METAL	330K 1% 1/4W	R8056	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R8001	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8057	1-208-809-11	METAL CHIP	13K 0.5% 1/10W
R8002	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R8058	1-249-393-11	CARBON	10 5% 1/4W
R8003	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8059	1-216-295-91	SHORT	0
R8004	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8060	1-208-774-11	METAL CHIP	470 0.5% 1/10W
R8005	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8061	1-249-393-11	CARBON	10 5% 1/4W
R8006	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8062	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8007	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8063	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8008	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8065	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8009	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8066	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8010	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8068	1-216-295-91	SHORT	0
R8011	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8069	1-249-419-11	CARBON	1.5K 5% 1/4W
R8013	1-216-295-91	SHORT	0	R8070	1-217-611-00	METAL	0.1 10% 2W
R8016	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8071	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8017	1-216-295-91	SHORT	0	R8072	1-208-782-11	METAL CHIP	1K 0.5% 1/10W
R8018	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8073	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R8019	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8074	1-208-790-11	METAL CHIP	2.2K 0.5% 1/10W
R8020	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8077	1-208-838-91	METAL CHIP	220K 0.5% 1/10W
R8021	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8078	1-208-838-91	METAL CHIP	220K 0.5% 1/10W
R8022	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8080	1-249-441-11	CARBON	100K 5% 1/4W
R8023	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8081	1-249-377-11	CARBON	0.47 5% 1/4W
R8024	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8082	1-216-133-00	RES-CHIP	3.3M 5% 1/10W
R8025	1-208-824-11	METAL CHIP	56K 0.5% 1/10W	R8085	1-219-749-91	CARBON	10K 5% 1/2W
R8026	1-216-105-91	RES-CHIP	220K 5% 1/10W	R8086	1-219-746-11	CARBON	1K 5% 1/2W
R8027	1-208-826-11	METAL CHIP	68K 0.5% 1/10W	R8087	1-216-295-91	SHORT	0
R8028	1-208-810-11	METAL CHIP	15K 0.5% 1/10W	R8089	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8029	1-208-826-11	METAL CHIP	68K 0.5% 1/10W	R8091	1-215-485-00	METAL	470K 1% 1/4W
R8030	1-208-830-11	METAL CHIP	100K 0.5% 1/10W	R8093	1-216-101-00	RES-CHIP	150K 5% 1/10W
R8031	1-208-830-11	METAL CHIP	100K 0.5% 1/10W	R8095	1-215-485-00	METAL	470K 1% 1/4W
R8032	1-216-073-00	RES-CHIP	10K 5% 1/10W	R8096	1-216-295-91	SHORT	0
R8033	1-208-781-11	METAL CHIP	910 0.5% 1/10W	R8098	1-249-441-11	CARBON	100K 5% 1/4W
R8034	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8099	1-249-441-11	CARBON	100K 5% 1/4W
R8035 \triangle	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W	R8100	1-249-441-11	CARBON	100K 5% 1/4W
R8036 \triangle	1-215-444-00	METAL	9.1K 1% 1/4W	R8101	1-216-101-00	RES-CHIP	150K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R21	1-215-413-00	METAL	470	1%	1/4W		
R22	1-215-413-00	METAL	470	1%	1/4W		
SWITCH				JACK			
S01	1-571-032-11	SWITCH, PUSH (1 KEY)		J4501	1-770-053-11	TERMINAL BLOCK, S(LIGHT ANGLE)	
S02	1-762-837-11	SWITCH, TACTILE		RESISTOR			
S03	1-762-837-11	SWITCH, TACTILE		R4505	1-216-022-00	RES-CHIP	75 5% 1/10W
S04	1-762-837-11	SWITCH, TACTILE		R4506	1-216-113-00	RES-CHIP	470K 5% 1/10W
S05	1-762-837-11	SWITCH, TACTILE		R4507	1-216-113-00	RES-CHIP	470K 5% 1/10W
S06	1-692-431-21	SWITCH, TACTILE		R4508	1-216-022-00	RES-CHIP	75 5% 1/10W
S07	1-692-431-21	SWITCH, TACTILE		R4509	1-216-049-91	RES-CHIP	1K 5% 1/10W
S08	1-692-431-21	SWITCH, TACTILE		R4510	1-216-022-00	RES-CHIP	75 5% 1/10W
S09	1-692-431-21	SWITCH, TACTILE		S			
S10	1-692-431-21	SWITCH, TACTILE		* A-1391-048-A S BOARD, COMPLETE			
S11	1-692-431-21	SWITCH, TACTILE		CAPACITOR			
HB				C4101 1-126-964-11 ELECT 10μF 20% 50V			
* A-1372-835-A HB BOARD, COMPLETE				C4102 1-126-964-11 ELECT 10μF 20% 50V			
CAPACITOR				C4103 1-126-959-11 ELECT 0.47μF 20% 50V			
C4503	1-126-960-11	ELECT	1μF	20%	50V	C4104	1-126-959-11 ELECT 0.47μF 20% 50V
C4504	1-126-964-11	ELECT	10μF	20%	50V	C4105	1-126-968-11 ELECT 100μF 20% 50V
C4505	1-126-964-11	ELECT	10μF	20%	50V	C4106	1-126-968-11 ELECT 100μF 20% 50V
C4506	1-126-960-11	ELECT	1μF	20%	50V	C4107	1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V
C4507	1-126-960-11	ELECT	1μF	20%	50V	C4108	1-126-964-11 ELECT 10μF 20% 50V
C4508	1-137-150-11	MYLAR	0.01μF	5%	50V	C4109	1-126-964-11 ELECT 10μF 20% 50V
CONNECTOR				C4110 1-115-340-11 CERAMIC CHIP 0.22μF 10% 25V			
CN4503	1-764-334-11	PLUG, CONNECTOR 11P		C4111 1-163-021-91 CERAMIC CHIP 0.01μF 10% 50V			
DIODE				C4112 1-163-017-00 CERAMIC CHIP 0.0047μF 10% 50V			
D4501	8-719-977-28	DIODE UDZ-TE-17-10B		C4113 1-115-340-11 CERAMIC CHIP 0.22μF 10% 25V			
D4502	8-719-977-28	DIODE UDZ-TE-17-10B		C4114 1-163-021-91 CERAMIC CHIP 0.01μF 10% 50V			
D4503	8-719-977-28	DIODE UDZ-TE-17-10B		C4115 1-163-017-00 CERAMIC CHIP 0.0047μF 10% 50V			
D4504	8-719-977-28	DIODE UDZ-TE-17-10B		C4116 1-163-017-00 CERAMIC CHIP 0.0047μF 10% 50V			
D4505	8-719-977-28	DIODE UDZ-TE-17-10B		C4117 1-126-968-11 ELECT 100μF 20% 50V			
D4506	8-719-977-28	DIODE UDZ-TE-17-10B		CONNECTOR			
FILTER				CN4101 1-573-299-21 CONNECTOR, BOARD TO BOARD 10P			
FL4501	1-239-583-21	FILTER, EMI		DIODE			
FL4502	1-239-583-21	FILTER, EMI		D4101	8-719-914-43	DIODE DAN202K-T-146	
FL4503	1-239-583-21	FILTER, EMI		D4102	8-719-914-44	DIODE DAP202K-T-146	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC				<div style="border: 1px solid black; padding: 5px; display: inline-block; font-size: 2em; font-weight: bold; margin-bottom: 10px;">U</div> <hr style="border: 1px solid black;"/> <p>* A-1373-817-A U (COM) BOARD, COMPLETE</p>			
IC4101	8-759-686-15	IC NJM2180M					
IC4102	8-759-711-10	IC NJU4066BM-T1					
IC4103	8-752-058-68	IC CXA1315M-T4		CAPACITOR			
COIL				C2405	1-126-964-11	ELECT	10μF 20% 50V
L4101	1-408-607-31	INDUCTOR	22μH	C2406	1-126-791-11	ELECT	10μF 20% 16V
RESISTOR				C2407	1-126-964-11	ELECT	10μF 20% 50V
R4101	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	C2408	1-126-791-11	ELECT	10μF 20% 16V
R4102	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	C2409	1-126-964-11	ELECT	10μF 20% 50V
R4103	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	C2410	1-126-964-11	ELECT	10μF 20% 50V
R4104	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	C2411	1-126-926-11	ELECT	1000μF 20% 10V
R4105	1-216-073-00	RES-CHIP	10K 5% 1/10W	C2412	1-126-964-11	ELECT	10μF 20% 50V
R4106	1-216-097-91	RES-CHIP	100K 5% 1/10W	C2413	1-126-964-11	ELECT	10μF 20% 50V
R4107	1-216-097-91	RES-CHIP	100K 5% 1/10W	C2414	1-126-791-11	ELECT	10μF 20% 16V
R4109	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	C2415	1-126-964-11	ELECT	10μF 20% 50V
R4110	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	CONNECTOR			
R4111	1-216-295-91	SHORT	0	CN2401*	1-785-303-11	CONNECTOR, DIN (PLUG) 64P	
R4112	1-216-049-91	RES-CHIP	1K 5% 1/10W	DIODE			
R4113	1-216-091-00	RES-CHIP	56K 5% 1/10W	D2401	8-719-977-28	DIODE UDZ-TE-17-10B	
R4114	1-216-295-91	SHORT	0	D2402	8-719-977-28	DIODE UDZ-TE-17-10B	
R4115	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2403	8-719-977-28	DIODE UDZ-TE-17-10B	
R4116	1-216-089-91	RES-CHIP	47K 5% 1/10W	D2405	8-719-977-28	DIODE UDZ-TE-17-10B	
R4117	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	D2406	8-719-977-28	DIODE UDZ-TE-17-10B	
R4118	1-216-055-00	RES-CHIP	1.8K 5% 1/10W	D2407	8-719-977-28	DIODE UDZ-TE-17-10B	
R4119	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	D2409	8-719-977-28	DIODE UDZ-TE-17-10B	
R4120	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2410	8-719-800-76	DIODE MA153-TX	
R4121	1-216-077-91	RES-CHIP	15K 5% 1/10W	D2411	8-719-977-28	DIODE UDZ-TE-17-10B	
R4122	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	D2412	8-719-800-76	DIODE MA153-TX	
R4123	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2413	8-719-800-76	DIODE MA153-TX	
R4124	1-216-049-91	RES-CHIP	1K 5% 1/10W	D2414	8-719-800-76	DIODE MA153-TX	
R4125	1-216-101-00	RES-CHIP	150K 5% 1/10W	D2415	8-719-800-76	DIODE MA153-TX	
R4126	1-216-081-00	RES-CHIP	22K 5% 1/10W	D2416	8-719-800-76	DIODE MA153-TX	
R4127	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2423	8-719-800-76	DIODE MA153-TX	
R4128	1-216-091-00	RES-CHIP	56K 5% 1/10W	D2424	8-719-800-76	DIODE MA153-TX	
R4129	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2425	8-719-800-76	DIODE MA153-TX	
R4130	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	D2426	8-719-800-76	DIODE MA153-TX	
R4131	1-216-129-00	RES-CHIP	2.2M 5% 1/10W	D2427	8-719-800-76	DIODE MA153-TX	
R4132	1-216-085-00	RES-CHIP	33K 5% 1/10W	D2428	8-719-800-76	DIODE MA153-TX	
R4133	1-216-092-00	RES-CHIP	62K 5% 1/10W	D2429	8-719-977-28	DIODE UDZ-TE-17-10B	
R4134	1-216-073-00	RES-CHIP	10K 5% 1/10W	D2430	8-719-977-28	DIODE UDZ-TE-17-10B	
R4135	1-216-017-91	RES-CHIP	47 5% 1/10W	D2431	8-719-977-28	DIODE UDZ-TE-17-10B	
R4136	1-216-017-91	RES-CHIP	47 5% 1/10W	D2432	8-719-977-28	DIODE UDZ-TE-17-10B	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
D2433	8-719-977-28	DIODE UDZ-TE-17-10B						
D2434	8-719-977-28	DIODE UDZ-TE-17-10B						
<u>FILTER</u>				<u>W</u>				
FL2404	1-239-583-21	FILTER, EMI		* A-1372-833-A W BOARD, COMPLETE				
FL2405	1-239-583-21	FILTER, EMI		4-382-854-01	SCREW (M3X8), P, SW (+)			
FL2406	1-239-583-21	FILTER, EMI		<u>CAPACITOR</u>				
FL2407	1-239-583-21	FILTER, EMI		C9101	1-107-364-11	MYLAR	0.01μF 10% 200V	
FL2408	1-239-583-21	FILTER, EMI		C9102	1-107-364-11	MYLAR	0.01μF 10% 200V	
FL2409	1-239-583-21	FILTER, EMI		C9103	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	
FL2410	1-239-583-21	FILTER, EMI		C9104	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	
FL2411	1-239-583-21	FILTER, EMI		C9105	1-104-999-11	MYLAR	0.1μF 10% 200V	
FL2412	1-239-583-21	FILTER, EMI		C9106	1-107-667-11	ELECT	2.2μF 20% 160V	
FL2413	1-239-583-21	FILTER, EMI		C9107	1-126-935-11	ELECT	470μF 20% 16V	
FL2414	1-239-583-21	FILTER, EMI		C9108	1-126-935-11	ELECT	470μF 20% 16V	
FL2416	1-239-583-21	FILTER, EMI		C9109	1-107-963-11	ELECT	33μF 20% 160V	
FL2417	1-239-583-21	FILTER, EMI		C9112	1-126-933-11	ELECT	100μF 20% 16V	
<u>JACK</u>				C9113	1-126-933-11	ELECT	100μF 20% 16V	
J2401	1-573-967-12	BLOCK, (S) TERMINAL		C9115	1-126-935-11	ELECT	470μF 20% 6.3V	
J2402	1-750-517-11	JACK BLOCK, PIN 3P		C9116	1-126-935-11	ELECT	470μF 20% 6.3V	
J2403	1-750-517-11	JACK BLOCK, PIN 3P		C9117	1-104-999-11	MYLAR	0.1μF 10% 200V	
J2405	1-764-143-11	JACK		<u>CONNECTOR</u>				
J2406	1-764-143-11	JACK		CN9101*	1-564-506-11	PLUG, CONNECTOR 3P		
J2407	1-774-358-11	JACK BLOCK, PIN		CN9102*	1-564-515-11	PLUG, CONNECTOR 12P		
J2408	1-774-358-11	JACK BLOCK, PIN		CN9103*	1-564-506-11	PLUG, CONNECTOR 3P		
J2409	1-750-516-11	JACK BLOCK, PIN 2P		CN9104*	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		
<u>RESISTOR</u>				<u>DIODE</u>				
R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9101	8-719-924-11	DIODE MTZJ-T-77-22
R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9102	8-719-924-11	DIODE MTZJ-T-77-22
R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9103	8-719-074-43	DIODE BAS316-115
R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9104	8-719-073-01	DIODE MA111-TX
R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9105	8-719-073-01	DIODE MA111-TX
R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9106	8-719-073-01	DIODE MA111-TX
R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W	D9107	8-719-510-02	DIODE D1NS4-TR
R2430	1-216-113-00	RES-CHIP	470K	5%	1/10W	<u>COIL</u>		
R2431	1-216-113-00	RES-CHIP	470K	5%	1/10W	L9101	1-412-525-31	INDUCTOR 10μH
R2432	1-216-113-00	RES-CHIP	470K	5%	1/10W	<u>TRANSISTOR</u>		
R2433	1-216-113-00	RES-CHIP	470K	5%	1/10W	Q9101	8-729-045-05	TRANSISTOR 2SA2005
R2434	1-216-021-00	RES-CHIP	68	5%	1/10W	Q9102	8-729-045-04	TRANSISTOR 2SC5511
R2435	1-216-295-91	SHORT	0			Q9103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
R2436	1-216-295-91	SHORT	0					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q9104	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					
Q9105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q9106	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
Q9107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR					
Q9108	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX					
RESISTOR				ACCESSORIES AND PACKING MATERIALS			
R9102	1-249-414-11	CARBON	560	5%	1/4W	A-1028-504-A	PACKING GROUP
R9103	1-249-432-11	CARBON	18K	5%	1/4W	* 4-041-259-01	BAG, PROTECTION (KV-32XBR400 only)
R9104	1-249-432-11	CARBON	18K	5%	1/4W	* 4-066-646-01	BAG, PROTECTION (KV-36XBR400/38DRC1/38DRC1C only)
R9105	1-249-414-11	CARBON	560	5%	1/4W	* 4-075-733-01	CUSHION ASSY, UPPER (REAR) (KV-32XBR400 only)
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W	* 4-076-522-01	CUSHION ASSY, UPPER (FRONT) (KV-36XBR400, KV-38DRC1/KV-38DRC1C only)
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W	* 4-075-734-01	CUSHION ASSY, UPPER (KV-32XBR400 only)
R9108	1-260-316-51	CARBON	100	5%	1/2W	* 4-075-735-01	CUSHION ASSY, LOWER (KV-32XBR400 only)
R9109	1-249-385-11	CARBON	2.2	5%	1/4W	* 4-076-523-01	CUSHION ASSY, LOWER (KV-36XBR400, KV-38DRC1/KV-38DRC1C only)
R9110	1-249-385-11	CARBON	2.2	5%	1/4W	* 4-075-743-01	CARTON, INDIVIDUAL (KV-32XBR400 only)
R9111	1-249-405-11	CARBON	100	5%	1/4W	* 4-076-526-01	CARTON, HSC (KV-36XBR400, KV-38DRC1/KV-38DRC1C only)
R9112	1-215-915-11	METAL OXIDE	470	5%	3W	4-075-727-21	MANUAL, INSTRUCTION (KV-32XBR400/KV-36XBR400 only)
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W	4-075-727-31	MANUAL, INSTRUCTION (KV-32XBR400CND/KV-36XBR400CND only)
R9114	1-249-425-11	CARBON	4.7K	5%	1/4W	4-077-337-41	MANUAL, INSTRUCTION (KV-38DRC1/KV-38DRC1C only)
R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		
R9117	1-216-047-91	RES-CHIP	820	5%	1/10W		
R9118	1-249-405-11	CARBON	100	5%	1/4W		
R9119	1-249-399-11	CARBON	33	5%	1/4W		
R9120	1-247-807-31	CARBON	100	5%	1/4W		
R9121	1-249-409-11	CARBON	220	5%	1/4W		
R9122	1-216-053-00	RES-CHIP	1.5K	5%	1/10W		
R9123	1-249-401-11	CARBON	47	5%	1/4W		
R9124	1-249-401-11	CARBON	47	5%	1/4W		
R9125	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R9126	1-249-395-11	CARBON	15	5%	1/4W		
R9127	1-216-005-00	RES-CHIP	15	5%	1/10W		
R9128	1-216-295-91	SHORT	0				
				REMOTE COMMANDER			
				1-476-094-11		REMOTE COMMANDER (RM-Y174)	

KV-32XBR400/36XBR400/38DRC1/38DRC1C

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