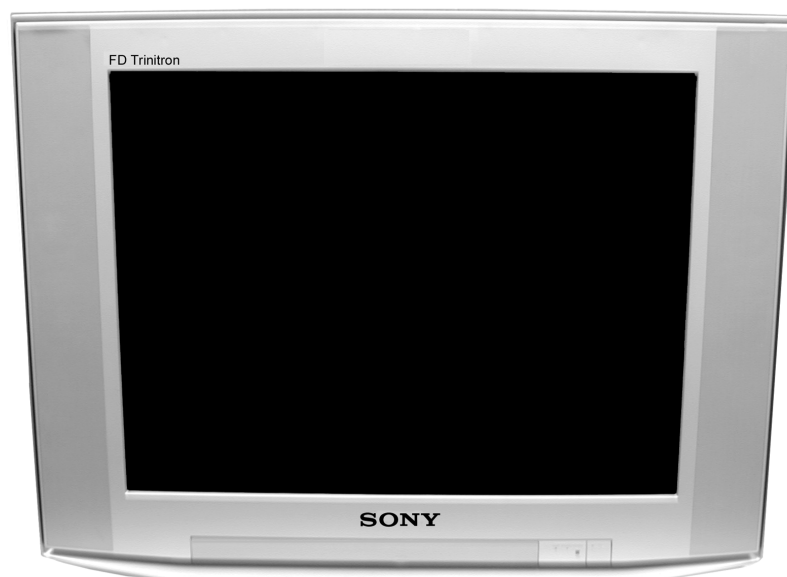


SERVICE MANUAL

DX-1A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST</u>	<u>CHASSIS NO.</u>
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
KV-36XBR400H	RM-Y174	HAWAII	SCC-S54A-A



KV-32XBR400



RM-Y174

TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

	KV-32XBR400	KV-38DRC1 KV-36XBR400 KV-36XBR400H	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⁾	6		
Audio Out ⁵⁾	2		
Monitor Out	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-36XBR400/36XBR400H/38DRC1/38DRC1C)

Actual screen size

34" picture measured diagonally (KV-32XBR400)

38" picture measured diagonally (KV-36XBR400/36XBR400H/38DRC1/38DRC1C)

Antenna

75 ohm external antenna terminal for VHF/UHF

Supplied accessories

Remote Commander RM-Y174

Two Size AA (R6) batteries

Optional accessoriesConnecting 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-32XBR4A, SU-36XBR4A

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

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

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

SELF-DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/STEREO 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/STEREO 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/STEREO 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. Due to a hardware upgrade, there is no LED flashing in sets using Ver.1.0 system micros. This has been addressed in Ver.2.0 system micros.

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/STEREO LED 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, IC9002, IC9003 is shorted. (C board) 	<ul style="list-style-type: none"> Power does not come on. Load on power line is shorted.
Low 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-IC9003) 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

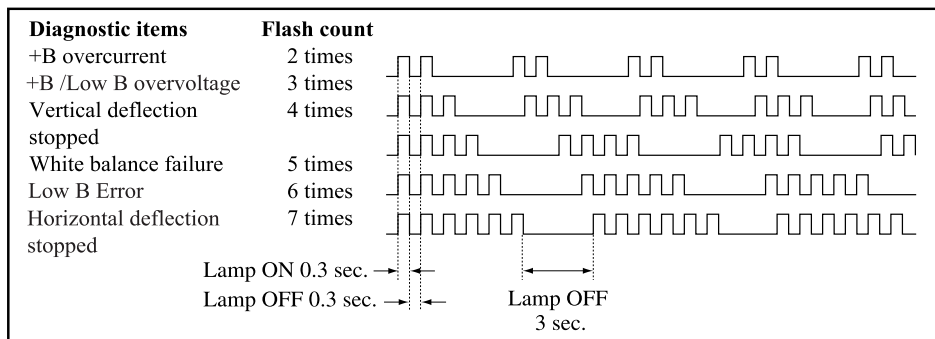
Diagnostic Item/Description	No. of times STANDBY/STEREO LED flashes	Self-diagnostic Display/ Diagnostic result	Probable Cause Location	Detected Symptoms
LOW B OCP/OVP (overcurrent/overvoltage) (see Note 3)	6 times	6:0 or 6:1	<ul style="list-style-type: none"> +5 line is overloaded. (A, B Boards) +5 line is shorted. (A, B Boards) IC6007 is faulty. (A Board) 	• No picture
Horizontal Deflection Stopped	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/STEREO LED flashes 6 times, unplug unit and wait ten seconds before performing adjustment.

Display of Standby/Timer LED Flash Count



STANDBY/STEREO LED

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

Stopping the STANDBY/STEREO LED Flash

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/STEREO LED 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:

Display → Channel [5] → Sound volume [−] → Power ON



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

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

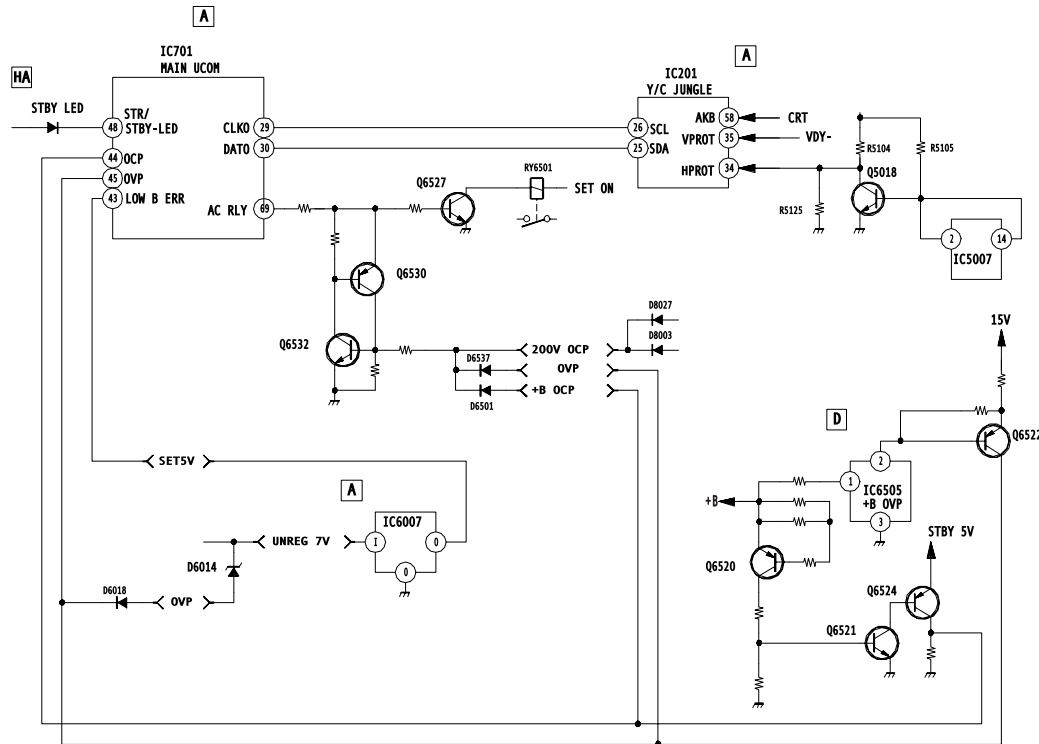
To clear the result display to “0”, press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

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 1) overvoltage (more than +140V) on the +B (135V) line is detected by IC6505 or 2) an overvoltage (more than 7.5V) on the unreg 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 IC201. 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 IC201. 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 Error

Occurs when set 5V is out.

Horizontal Deflection Stopped

Occurs when either 1) a +B overcurrent is detected (IC5007) or 2) overheating is detected (Thermistor TH5002).

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).

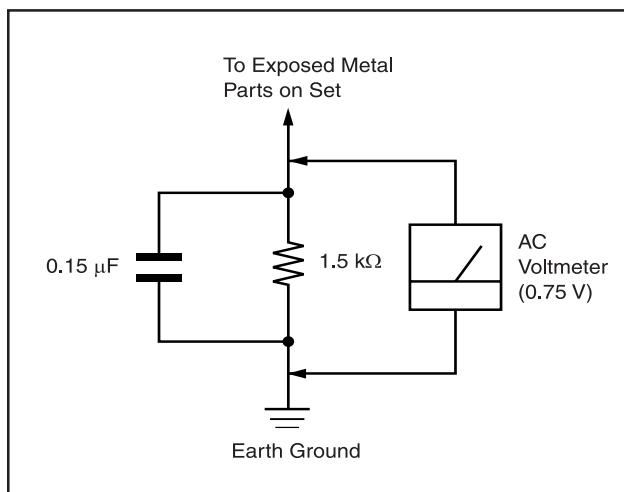


Figure A. Using an AC voltmeter to check AC leakage.

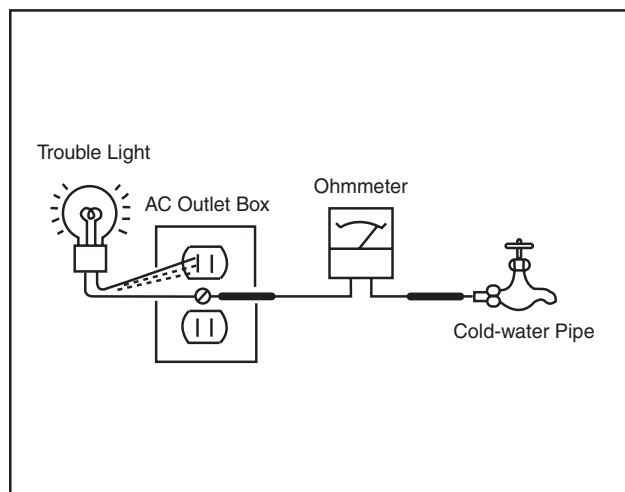


Figure B. Checking for earth ground.

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

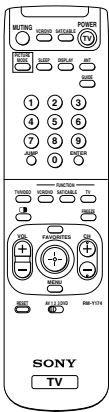
Inserting Batteries

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.

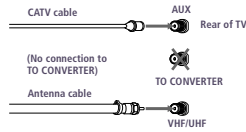
To Do This ...	Use This Button
Turn the TV on and off	TV (POWER)
Select channels directly	0 - 9 and ENTER Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER for immediate selection.
Scan through channels	CH +/- To scan rapidly through the channels, press and hold down the CH+ or CH- button.
Adjust the volume	VOL +/-
Switch video inputs (such as a VCR)	TW/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.

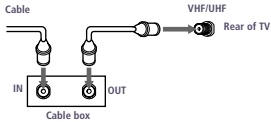
In order to receive channels with an antenna, you need to turn your Cable to Off and perform the Auto Program function (see page 30).

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.

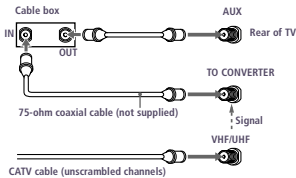


If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature (see page 30).

7

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).

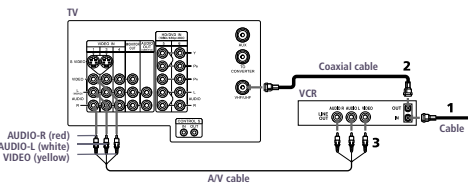
8

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.




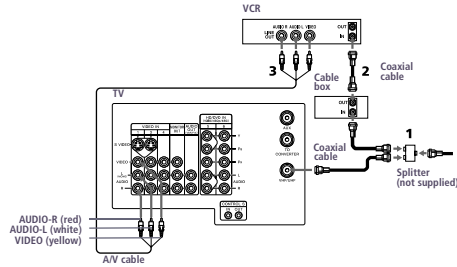
9

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.




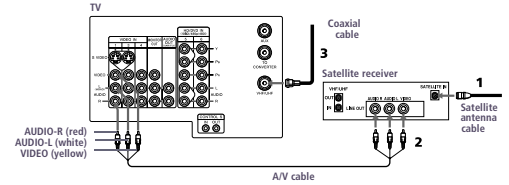
10

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.

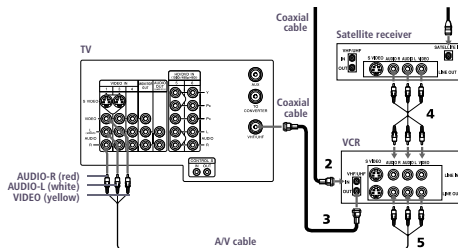


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Installing the TV

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.

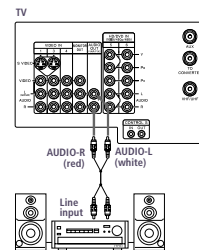


13

Installing the TV


Connecting an Audio Receiver

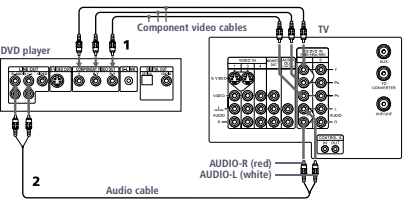
- 1 Using audio cables, connect the TV's AUDIO OUT jacks to the audio receiver's audio LINE IN jacks.



14


Connecting a DVD Player with Component Video Connectors

- 1 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.
- 2 Using an audio cable, connect the DVD player's audio OUT jacks to the TV's audio IN jacks.

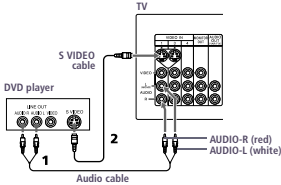


15

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.


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

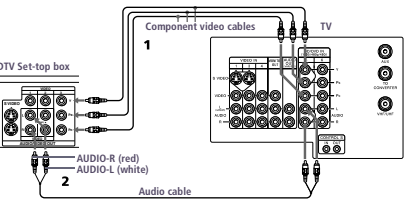


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
Connecting a Digital TV Receiver

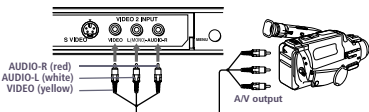
 Be sure to read the manual for the Set-top box.

- 1 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.
- 2 Using an audio cable, connect the DTV Set-top box's audio OUT jacks to the TV's audio IN jacks.



Connecting a Camcorder

- 1 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.

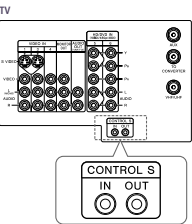


17

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

- 1 Press POWER to turn on the TV.
The first time you turn on the TV, the Auto Setup screen appears.
- 2 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

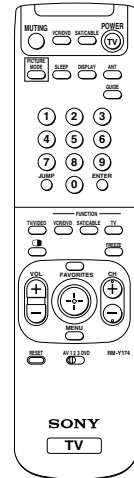
Other Information

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

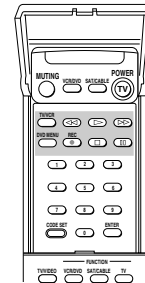


Button	Description
MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
VCR/DVD (POWER)	Turns the DVD player, MDP player, or VTR (VCR) on and off.
SAT/CABLE (POWER)	Turns the satellite receiver or cable box on and off.
TV (POWER)	Turns the TV on and off.
PICTURE MODE	Press 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.

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Other Information

Button	Description
	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 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)
AV 12 120V	Use to switch control for connected video equipment. You can program one video source for each switch position (see page 42).



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 ◀◀ 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.

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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.

- 1 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.

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

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.

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Programmable Codes

VCRs	Manufacturer	Code
Manufacterer	Code	
Sony	301	
Admiral (M. Ward)	327	
Aiwa	338, 344	
Audio Dynamic	314, 337	
Broksonic	319, 317	
Canon	309, 308	
Citizen	332	
Craig	302, 332	
Criterion	315	
Curtis Mathes	304, 338, 309	
Daewoo	341, 312, 309	
DBX	314, 336, 337	
Dimensia	304	
Emerson	319, 320, 316, 317, 318, 341	
Fisher	330, 335	
Funai	338	
General Electric	329, 304, 309	
Go Video	322, 339, 340	
Goldstar	332	
Hitachi	306, 304, 305, 338	
Instant Replay	309, 308	
JC Penney	309, 305, 304, 330, 314, 336, 337	
JVC	314, 336, 337, 345, 346, 347	
Kenwood	314, 336, 332, 337	
LXI (Sears)	332, 305, 330, 335, 338	
Magnavox	308, 309, 310	
Marantz	314, 336, 337	
Marta	332	

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

Manufacturer	Code
Wards	327, 328, 335, 331, 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 Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213
Satellite Receivers	
Manufacturer	Code
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

43

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 +/-

Troubleshooting

Problem	Possible Remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none">❑ If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center.❑ Make sure the power cord is plugged in.❑ Push the power button on the front of the TV.❑ 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.❑ Try another channel. It could be station trouble.
Remote control does not operate	<ul style="list-style-type: none">❑ Batteries could be weak. Replace the batteries.❑ Press TV (FUNCTION) when operating your TV.❑ Make sure the TV's power cord is connected securely to the wall outlet.❑ Locate the TV at least 3-4 feet away from fluorescent lights.❑ Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none">❑ Adjust the Picture setting in the Video menu (see page 26).❑ Adjust the Brightness setting in the Video menu (see page 26).❑ Check antenna/cable connections.
Good picture, no sound	<ul style="list-style-type: none">❑ Press MUTE so that "MUTING" disappears from the screen (see page 40).❑ 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">❑ Change Cable to Off (see page 30).❑ 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">❑ 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">❑ Check the antenna/cable connections.❑ Make sure the channel is broadcasting programs.❑ Press ANT to change the input mode (see page 40).
Dotted lines or stripes	<ul style="list-style-type: none">❑ Adjust the antenna.❑ 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">❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30).❑ Check your Channel Fix settings (see page 30).
Double images or ghosts	<ul style="list-style-type: none">❑ 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">❑ 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">❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 30).❑ Check your cable settings.❑ Make sure Cable is set to ON in the Channel menu (see page 30).

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

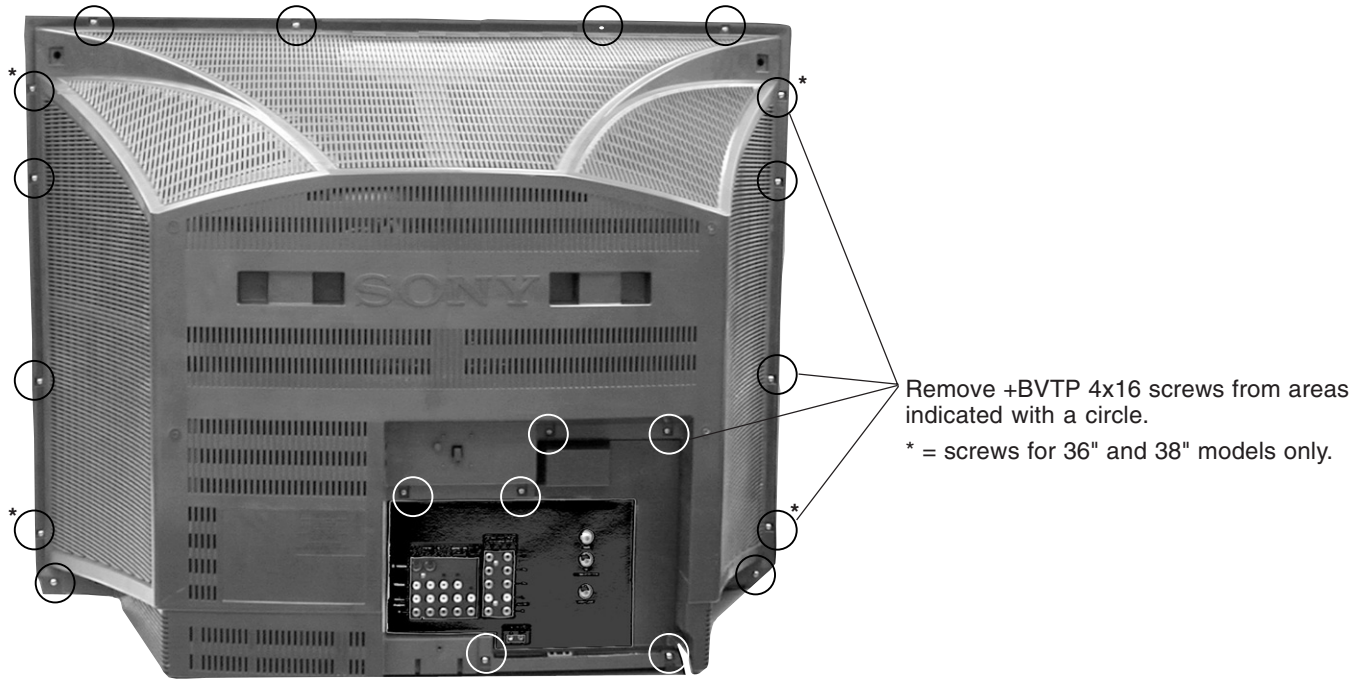
To Do This ...	Press
Turn on/off	SAT/CABLE (POWER)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Problem	Possible Remedies
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none">❑ 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">❑ 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">❑ 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">❑ 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.

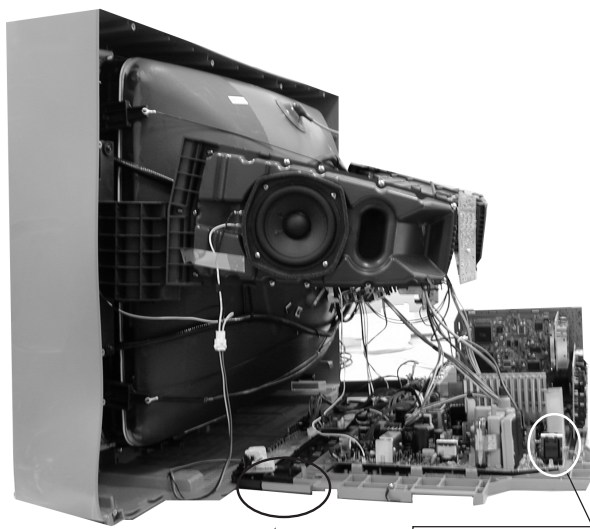
If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSEMBLY REMOVAL



CAUTION!

Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.

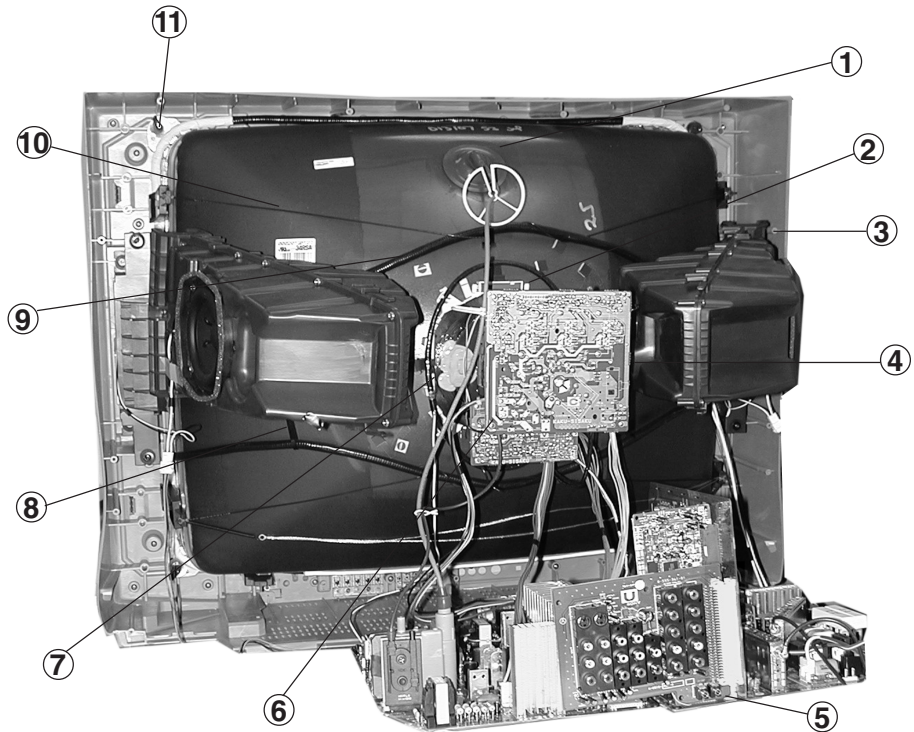
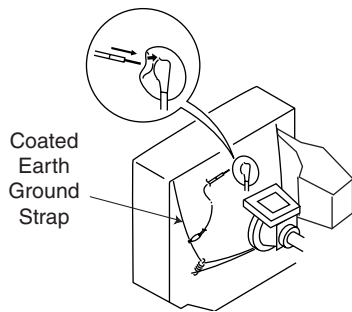
2-3. SERVICE POSITION



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.



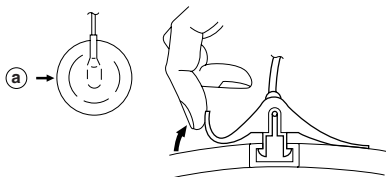
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove speaker assemblies.
4. Remove the C Board from the CRT.
5. Remove the chassis assembly.
6. Loosen the neck assembly 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

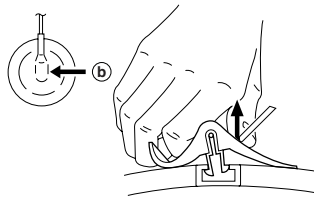
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge the CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

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.

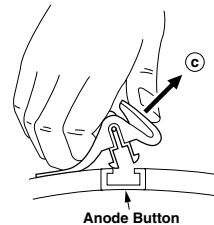
REMOVAL PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by arrow (a).



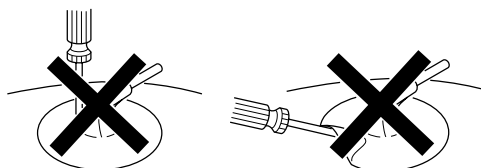
- ② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



- 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 (RESET)

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

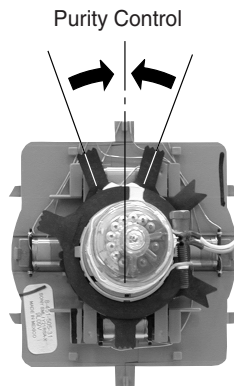
3-1. BEAM LANDING

Before beginning adjustment procedure:

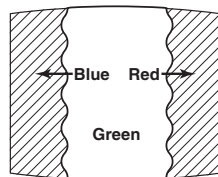
- Face the picture tube in East or West direction to reduce the influence of geomagnetism.

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

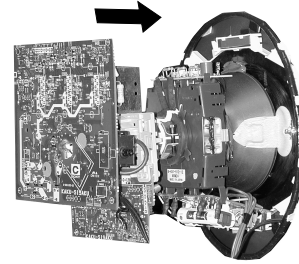
1. Input white pattern from pattern generator. Set the PICTURE control to maximum and BRIGHTNESS control to standard.
2. Perform Focus, G2 and White Balance adjustments.
3. Loosen the deflection yoke mounting screw and set the purity control to the center as shown below.



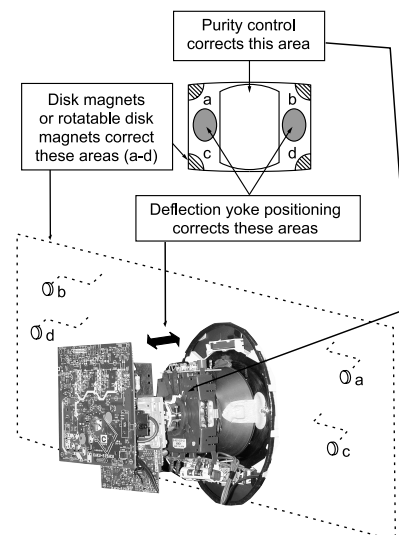
4. Input a green pattern from the pattern generator.
5. Move the deflection yoke backwards and adjust the purity control so that green is in the center and red and blue are even on both sides.



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.
 - Video Mode: Standard (Reset)
-
1. Adjust service mode CXA2150D-1 04 VCEN so that top pin and bottom pin are symmetrical from top to bottom.
 2. Adjust service mode CXA2150D-1 05 VPIN so top and bottom pin are symmetrical from top to bottom.
 3. Lines should be straight from left to right. Check landing for side effect.

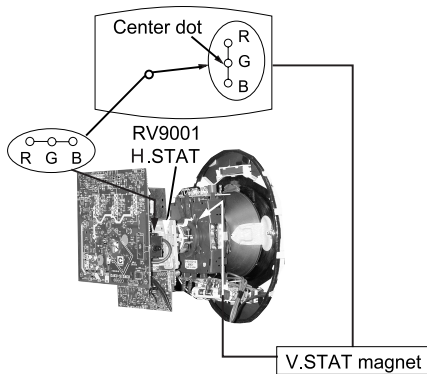
3-3. CONVERGENCE ADJUSTMENT

Before starting convergence adjustments:

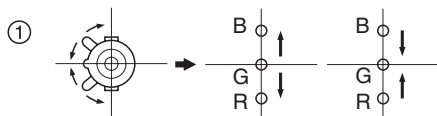
- Set CONTRAST AND BRIGHTNESS control to 50%.
- Input dot pattern signal.

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.



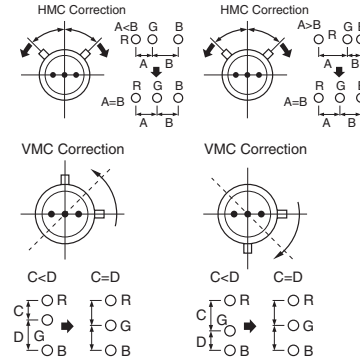
4. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



Operation of BMC (Hexapole) Magnet

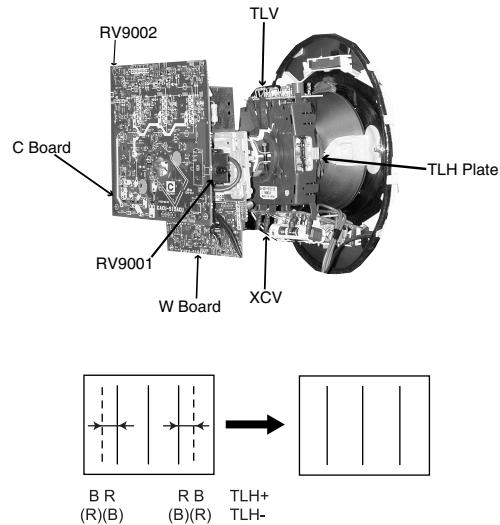
The respective dot positions resulting from moving each magnet interact, so perform the following adjustment while tracking.

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 unbalanced horizontal convergence of red and blue dots by adjusting TLH plate on the deflection yoke.



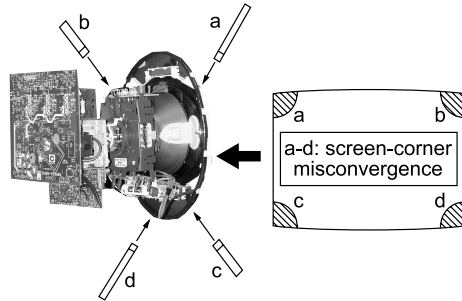
1. Adjust XCV core to balance X axis.
2. Adjust vertical red and blue convergence with V.TILT (TLV VR).

Note: Perform adjustments while tracking item 1.

Screen-Corner Convergence

- Input crosshatch pattern.

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



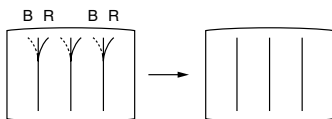
Dynamic Convergence Adjustments

Set dynamic convergence using the following service mode adjustment data:

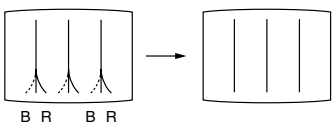
CXA 8070 AP

NO.	Register	Function	Data Length	Initial Data
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

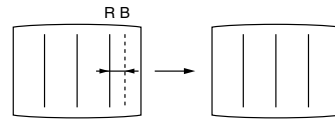
1. YBWU (UPPER Y-BOW)



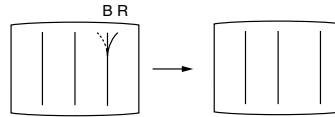
2. YBWL (BOTTOM BOW)



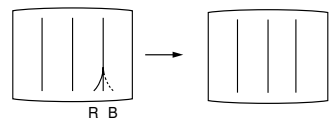
3. RSAP (RIGHT AMP)



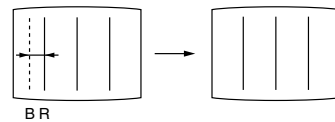
4. RUBW (RIGHT SIDE UPPER C-BOW)



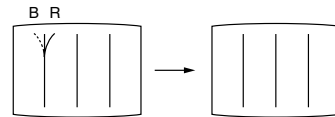
5. RLBW (RIGHT SIDE BOTTOM C-BOW)



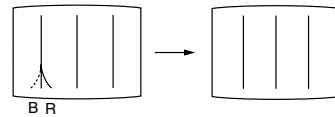
6. LSAP (LEFT AMP)



7. LUBW (LEFT SIDE UPPER C-BOW)

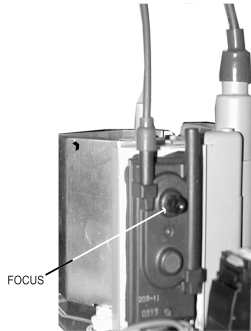


8. LLBW (LEFT SIDE BOTTOM C-BOW)



3-4. FOCUS ADJUSTMENT

1. Input Monoscope signal.
2. Set VIDEO MODE: Standard (RESET).
3. Adjust focus VR counter-clockwise to confirm the dot's shape is centered.
4. 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 $170.0 \pm 0.5V$ 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.

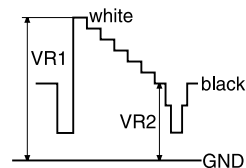
2103-1

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



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

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

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.

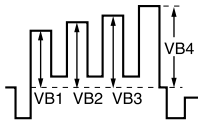
2103-1

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.

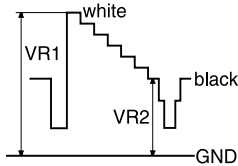
2103-1

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

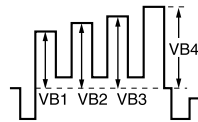
No.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

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
02	HSIZ	Horiz Size	31

CXA2150D-3

No.	Name	Control Function	Avg. Data
00	HBLK	Blanking enable	0

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**3-9-1. NTSC (DRC) Full mode adjustment**

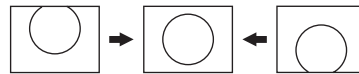
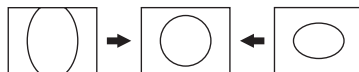
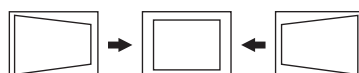
1. Face picture tube to east or west direction.
2. Complete VPIN and VCEN adjustment first. (A2150-D1 05 VPIN, A2150-D1 04 VCEN)
3. Input a monoscope and a cross-hatch signal. Adjust picture distortion with the following service parameters to balance the best condition for these two signals.

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

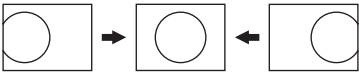
Make sure picture size is within specs. Vertical size is 11.8 sq. and Horizontal size is 15.8 sq.

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

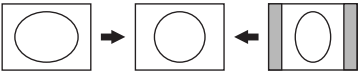
CXA2150D-1**0. VPOS (V-POSITION)****1. VSIZ (V-SIZE)****2. VLIN (V-LINE)****3. VSCO (VS-COR)****7. HTPZ (H-TRAPEZOID)**

CXA2150D-2

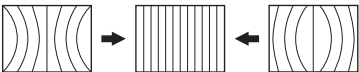
1. HPOS (H-POSITION)



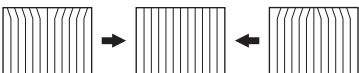
2. HSIZ (H-SIZE)



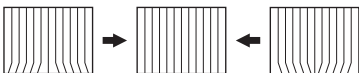
5. PIN (PIN AMP)



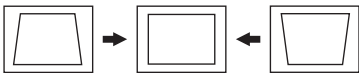
6. UCP (UP COR PIN COR)



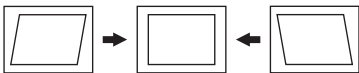
7. LCP (LOW CO PIN COR)



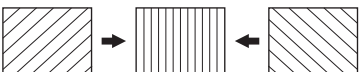
13. PPHA(PIN PHASE)



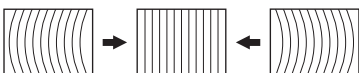
14. VANG (AFC-ANGLE)



15. LANG (L-ANGLE)



16. VBOW (AFC-BOW)



17. LBOW (L-BOW)



3-9-2. 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 register to adjust the horizontal parameter:
A2150-D2 01 HPOS

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

5. Write data into memory.

3-9-3. Vertical Compressed Mode Check and Confirmation

1. Input a monoscope and a cross-hatch signal.
2. Check vertical compressed mode.

SECTION 4 SAFETY RELATED ADJUSTMENTS

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

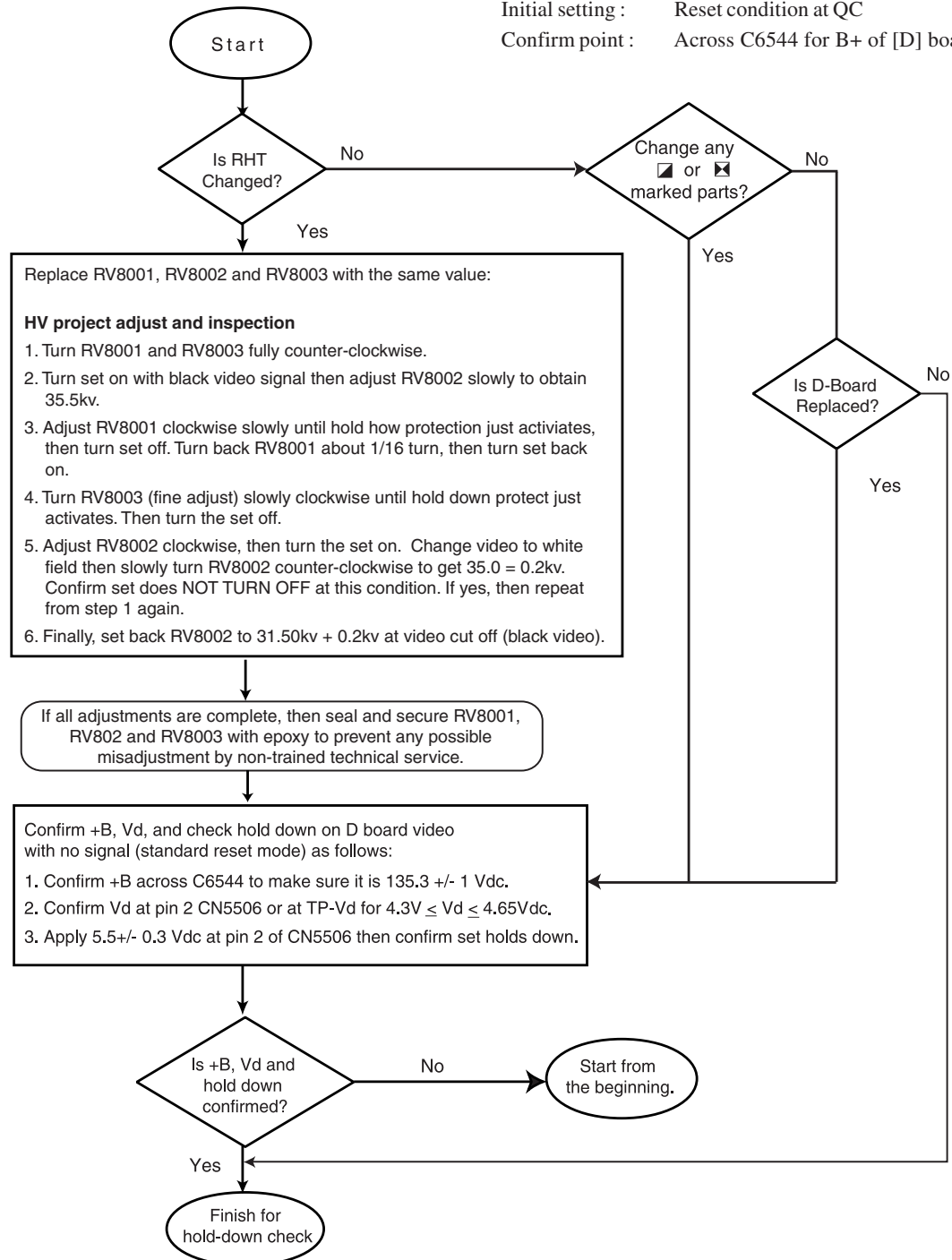
B+ Max Confirmation: Standard: 135.3 ± 1 VCD

Check Condition: AC input voltage : 120 (± 2) VAC at Board Adjustment Process
 130 (± 2) VAC at QC
 120 (± 2) VAC at Overall Adjustment (After aging)

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

HV Service Flowchart

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.



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:

- 1) Pattern generator
- 2) Frequency counter
- 3) Digital multimeter
- 4) Audio oscillator

5-1. SETTING THE SERVICE ADJUSTMENT MODE

1. Standby mode (power off).
2. Press each of the following buttons on the remote within a second of each other:

[Display] → Channel [5] → Sound volume [+] → Power

SERVICE ADJUSTMENT MODE VIEW

Register Item	Device Item	Data Item
2150P-1 SBOT	0	+7 SERVICE TV
F/A FLAG: CBA FLAG:	WSL: 0	

Reading the Memory

1. Enter into Service Mode
2. Press 0 on the remote commander.
3. Press ENTER to read memory.

Adjusting the Picture

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

RESETTING THE DATA

Note: Be careful when using the remote! It will clear and reinitialize ALL NVM data including deflection adjustment data if not reset properly as follows:

Resetting the Deflection NVM Data

1. Enter into Service Mode.
2. Press 7, MENU, and then press Enter on the remote.

Resetting the System NVM Data

1. Enter into Service Mode.
2. Press 7, then 9, and then press Enter on the remote.

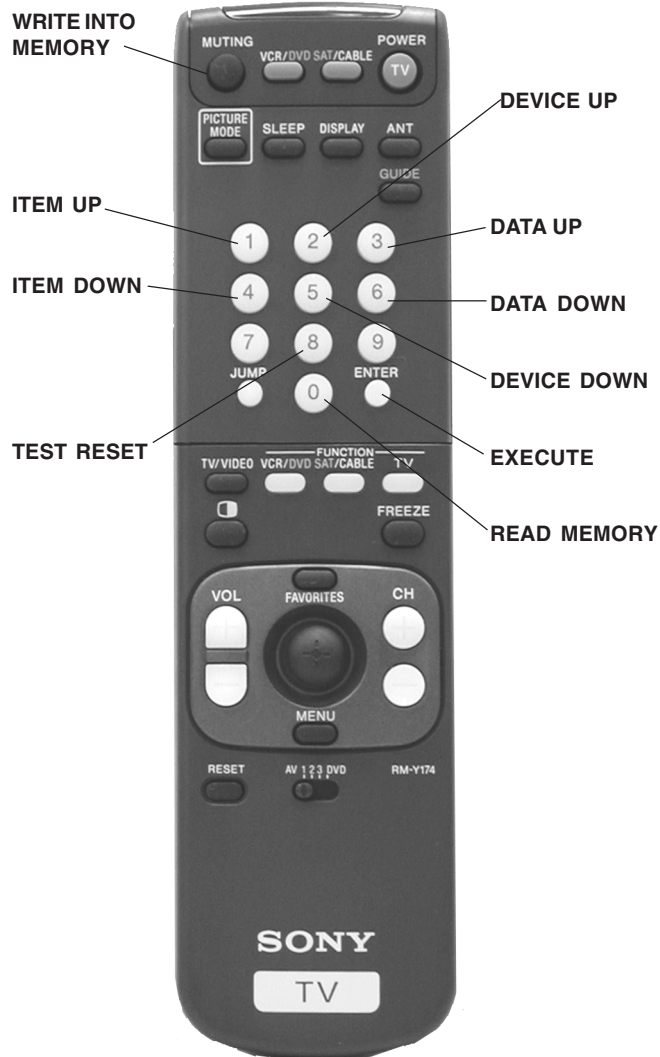
Resetting the User Data

1. Enter into Service Mode.
2. Press 8, and then press Enter on the remote.

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 properly.

5-3. ADJUSTMENT BUTTONS AND INDICATORS



RM-Y174

5-4. SERVICE DATA LISTS

DX1A Service List ----- Contents & Notes

DX1A Service List ----- Contents & Notes					
Category Number & Name	Device Name	Device Reference Number	Slave Address	Comment	
# 1	3D-COMB	μPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	W&R: Write & Read
# 2-1	CXA2103-1 (Main)	CXA2103Q	IC3048 (Main) / B-board	9Ah	
# 2-2	CXA2103-2 (Sub)		IC3110 (Sub) / B-board	9Eh	
# 3-1	CXA2150P-1	CXA2150Q	IC201 / A-board	86h	
# 3-2	CXA2150P-2				
# 3-3	CXA2150P-3				
# 3-4	CXA2150P-4				
# 4-1	CXA2150D-1	CXA2150Q	IC201 / A-board	86h	
# 4-2	CXA2150D-2				
# 4-3	CXA2150D-3				
# 5	CXA2151	CXA2151Q	IC3001 / B-board	84h	
# 6	D-CONV	CXA8070P	IC5513 / D-board	DEh	
# 7	CXA2026	CXA2026AS	IC5511 / D-board	8Eh	
# 8	AP	BH3868FS	IC7001 / A-board	82h	
# 9	TRUS	NJM2180M	IC4101 / S-board	2Eh	Controlled through CXA1315M (IC4103 / S-board / 48h)
# 10	MID1	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 11	MID2	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 12	MID3	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 13	MID5	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board /
# 14	OSD	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}
# 15	SNNR	μPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	
		CXA2103Q	IC3048 (Main) / B-board	9Ah	
		CXA2150Q	IC201 / A-board	86h	
# 16	ID1	CXD2085M	IC3603 / B-board	40h	
# 17	CCD&VCHIP	CXP85840A-039Q	IC3602 (Main) / B-board	68h (Main)	CCD&Vchip Micro (V2.14)
			IC3601 (Sub) / B-board	6Ch (Sub)	
# 18	OP	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}
# 19	ID	M306V2ME-150or151FP	IC701 / A-board	60h	System Micro {V1.0 with Patch-B or V2.0 with Patch-A}
DX1A System Micro & Notes for Services	M306V2ME-150FP (MASK), Software Version 1.0 with ROM correction Patch-B, IC701/A-board (Slave Address: 60h)				
	M306V2ME-151FP (MASK), Software Version 2.0 with ROM correction Patch-A, IC701/A-board (Slave Address: 60h)				
	V1.0-micro/A-board works with V1.0/Patch-B/D-board: GOOD (Designed V1.0 micro-based sets, No LED-flashing for Self Diagnostics)				
	The system micro name, software&patch versions, and the status of NVM devices are displayed only when in the service category (#19): ID.				
DX1A MID-XA Micro	MB94918RPF-G-128-BND (MASK), Software Version 03/30/00, IC3090/B-board (Slave Address: 64h)				
	MB94918RPF-G-130-BND (MASK), Software Version 04/20/00, IC3090/B-board (Slave Address: 64h)				
DX1A CCD&Vchip Micros	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-1/2)Device Name: μ PD64082GF { 3D-Comb Filter / NEC } / IC3501 (BC-board) / P/N: 8-759-594-44 (SB#: V7372)

Slave Address: B8h (Write Address) / B9h (Read Address)

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Comment
				UHF/VHF & CVideo	SVideo			CVideo (CV): CVideo1~4 inputs SVideo (SV): SVideo1~3 inputs C: Common data
				Standard	Non-standard	Standard	Non-standard	
0	NRMD		0~3	0	1	3	3	
1	YAPS	C	0~3	3				
2	CLKS	C	0~3	1				
				UHF/VHF & CVideo	SVideo			
				Standard	Non-standard	Standard	Non-standard	
3	NSDS		0~3	0	0	0	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			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
7	DYCO		0~15	2	2	2	2	
8	DYGA		0~15	10	10	10	10	
9	DCCO		0~15	5	5	5	5	
10	DCGA		0~15	5	5	5	5	
11	YNRL	C	0~3	1				
12	CNRL	C	0~3	1				
				UHF/VHF	Video1~4	Video5&6	Video1~4: CVideo1~4 & SVideo1~3 inputs Video5&6: YPbPr-480i/480p/1080i inputs	
13	VTRH		0~3	1	1	1		
14	VTRR		0~3	1	1	1		
15	LDSR		0~3	2	2	2		
	VM&SNNR Setting-based Control Table for VAPG & VAPI VAPG= VAPG1 - VAPG2			VAPG1 Data Based on MENU/VM Setting				VAPG2 Data Based on SNNR/Offset-setting
				VM = Off	VM = Low	VM = Mid	VM = High	SNNR = 0 SNNR = 1 SNNR = 2 SNNR = 3
16	VAPG		0~7	0	2	3	4	0 0 0 0
17	VAPI		0~31	4	4	4	4 (32V) Or 8 (36V) {Initial/CBA Data = 8}	
	SNNR Setting-based Control Table for YPFT & YHFG			SNNR Setting (-Offset)				
				SNNR = 0		SNNR = 1	SNNR = 2	SNNR = 3
18	YPFT		0~3	0	0	0		0
19	YPFG		0~15	7	0	1	2	3

Note:

DX1A SERVICE LIST (#1): 3D-COMB / μPD64082 (Part-2/2)												
Register No. & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average 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	12	C: Common data						
23	VSSL	Vsync slice level	C	0~15	8							
24	ADCL	ADC clock delay	C	0~3	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	3							
27	OP1	Option1: Selection of comb filter & recursive noise reduction types	C	0, 1	1							
					UHF/VHF	CVideo1	SVideo1	CVideo2	SVideo2	CVideo3	SVideo3	
28	NR1	Noise reduction on/off		0, 1	0	0	1	0	1	0	1	
29	NR2	SNNR control on/off	C	0, 1	0							
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	1							
32	BPLL	Burst PLL filter	C	0, 1	1							
33	FSCF	Burst extraction gain	C	0, 1	0							
34	PLL F	PLL loop gain	C	0, 1	1							
					UHF/VHF	Video1~4	Video5&6	Video1~4: CVideo1~4 & SVideo1~3 inputs Video5&6: YPbPr-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	5							
37	BGPS	Internal burst gate start position { Gate Start Position from Hsync center = 0.25 x BGPS + 2	C	0~15	4							
38	BGPW	Internal burst gate width { Gate Width = 0.25 x BGPW + 0.5 (ms)}	C	0~15	10							
39	TEST	Test bit {0: Normal mode, 1: Test mode (forbidden setting)}	C	0, 1	0							
40	WSC	Amount of noise detection coring	C	0~3	1							
					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	PFGO	(YPFG offset at GR on) --- Not used for DX1A	---	0~7	3	(Not used for DX1A)						
Note:												

DX1A SERVICE LIST (#2-1): CXA2103-1 {Main}

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3048 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Ah { Main }

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Setting & [Average Data] (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Note
					UHF/VHF & Video		YPbPr-480i		Video: CVideo1~4 & SVideo1~3 Inputs P&P-Left (M)-1080i&480i: If P&P-Left is 1080i/480p signal, the signal from the main chroma decoder is sent to MID/VDO input. *: Settings not used				
					P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i					
0	YLEV	Y-Out gain		0~63	23	27*	28	31*	Adj.: Adjusted data [Adj.-2steps]: The adjusted data - 2 steps				
1	CLEV	Cb&Cr-Out gains		0~63	17	55*	32	31*					
					UHF/VHF		Video		SNNR=0 (-offset) 0 SNNR=1 (-offset) 1 SNNR=2 (-offset) 2 SNNR=3 (-offset) 3				
2	SCON	Sub contrast	Adj.	0~15	7	[7]	7	[7]					
3	SCOL	Sub color	Adj.	0~15	7	[7]	7	[7]	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
4	SHUE	Sub hue	Adj.	0~15	7	[Adj.-2steps]	7	[Adj.-2steps]					
5	YDLY	Y/C delay time		0~3	0		0		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo	YPbPr 480i					
6	SHAP	Sharpness		0~15	6	4	4	4	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
7	SHF0	Sharpness f0 selector		0~3	0	0	0	0					
8	PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0	0	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
9	BPF0	Chroma band filter f0 setting		0~3	3	0	0	0					
10	BPFO	Chroma band filter Q setting		0~3	0	3	3	3	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
11	BPSW	Chroma band filter on/off		0, 1	1	0	0	0					
12	TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0	0	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
13	LPF	YPbPr-Output LPF on/off		0, 1	0	0	0	0					
					UHF/VHF	Video	YPbPr 480i		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
14	AFCG	AFC Loop Gain (PLL between Hsync		0, 1	1	0	0						
15	CDMD	V countdown system mode selector		0~3	3	3	3		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
16	SSMD	H&Vsync slide level setting		0~3	0	0	0						
17	HMSK	Masking of macrovision signal on/off		0, 1	1	1	1		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
18	HALI	H automatic adjustment on/off		0, 1	0	0	0						
19	PPHA	H TIM phase adjustment for video		0~15	7	7	7		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
					UHF/VHF & Video	YPbPr-480i							
					P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i	CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
20	CBOF	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63	31	31*	31	31*					
21	CROF	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63	31	31*	31	31*	*: Settings not used (31): The center setting = 31				
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR				P&P & Favorite								
					UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	P&P & Favorite				Single UBLK = 0~7
22	ATPD	Auto-pedestal Inflection Point		0~3	0	1	2	3					
23	DCTR	DC Transmission Ratio		0~3	0	1	1	1	P&P & Favorite				
					UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7					
					1	2	3	2	P&P & Favorite				
					2	2	2	3					

Note:

DX1A SERVICE LIST (#2-2): CXA2103-2 {Sub}									
Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3110 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)									
Slave Address: 9Eh { Sub }									
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Setting & [Average Data] (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)	Note
				UHF/VHF & Video P&P-Right (S) P&P-Right (S)-DRC 23 22 18 16				Video: CVideo1~4 & SVideo1~3 Inputs P&P-Right (S)-DRC: If P&P-Left is 1080i/480p signal, the signal from the sub chroma decoder is switched to DRC path.	
0	YLEV	Y-Out gain		0~63					
1	CLEV	Cb&Cr-Out gains		0~63					
2	SCON	Sub contrast	Adj.	0~15					
3	SCOL	Sub color	Adj.	0~15					
4	SHUE	Sub hue	Adj.	0~15				Adj.: Adjusted data [Adj.-2steps]: The adjusted data - 2 steps	
5	YDLY	Y/C delay time		0~3					
	SNNR Data-related Settings								
6	SHAP	Sharpness		0~15					
7	SHF0	Sharpness f0 selector		0~3					
8	PRE0	Sharpness pre/over-shoot ratio		0~3				CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs	
9	BPF0	Chroma band filter f0 setting		0~3					
10	BPFO	Chroma band filter Q setting		0~3					
11	BPSW	Chroma band filter on/off		0, 1					
12	TRAP	Y block chroma trap filter on/off		0, 1					
13	LPF	YPbPr-Output LPF on/off		0, 1					
14	AFCG	AFC Loop Gain		0, 1					
15	CDMD	V countdown system mode selector		0~3					
16	SSMD	H&Vsync slide level setting		0~3					
17	HMSK	Masking of macrovision signal on/off		0, 1					
18	HALI	H automatic adjustment on/off		0, 1					
19	PPHA	H TIM phase adjustment for video		0~15					
20	CBOF	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63				*: Settings not used (31): The center setting = 31	
21	CROF	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63					
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR								
22	ATPD	Auto-pedestal Inflection Point		0~3					
23	DCTR	DC Transmission Ratio		0~3					
								P&P & Favorite UBLK = 4 UBLK = 5 UBLK = 6 UBLK = 7 1 2 3 2 2 2 2 3	Single UBLK = 0~7 0 0

Note:

DX1A SERVICE LIST (#3-1): CXA2150P-1 {Picture Controls: P1}													
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)													
Slave Address: 86h													
Register No & Name	Control Register Function & Link			Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)						Comment	
						UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	CV: CVideo1~4 SV: SVideo1~3 (): Settings at center
0	SBOT	Offset for SBRT		0~(7)~15		7	7	7	7	7	7	7	
1	YOF	Y_OFFSET: DC-offset for Y signal		0~(7)~15		0	0	0	0	0	0	0	
2	CBOF	CB_OFFSET: DC-offset for Cb signal		0~(31)~63		31	31	31	33	30	31	13	
3	CROF	CR_OFFSET: DC-offset for Cr signal		0~(31)~63		31	31	31	42	36	31	23	Adj.: Adjusted data C: Common data Initial Setting = [Avg. Data]
4	SBRT	SUB_BRIGHT: Sub Bright	Adj.	0~63	24 [24]								
5	RDRV	R_DRIVE: R output drive	C	0~63	41								
6	GDRV	G_DRIVE: G output drive	Adj.	0~63	36 [36]								
7	BDRV	B_DRIVE: B output drive	Adj.	0~63	33 [33]								
8	RCUT	R_CUTOFF: R output cutoff	C	0~63	41								
9	GCUT	G_CUTOFF: G output cutoff	Adj.	0~63	11 [11]								
10	BCUT	B_CUTOFF: B output cutoff	Adj.	0~63	22 [22]								
11	WBSW	WB_SW: White balance offset on/off (Related to UTMP settings)		0, 1	Vivid		Standard		Movie		Pro		**: The color temperature offset data
					0 (Cool)		0 (Neutral)		1 (Warm)		0		
12	SBOF	Offset for SBRT		0~(63)~127	63		63		63		63		
13	RDOF	Offset for RDRV		0~(63)~127	63		63		63**		63		
14	GDOF	Offset for GDRV		0~(63)~127	63		63		66**		63		
15	BDOF	Offset for BDRV		0~(63)~127	63		63		76**		63		
16	RCOF	Offset for RCUT		0~(63)~127	63		63		63**		63		
17	GCOF	Offset for GCUT		0~(63)~127	63		63		66**		63		
18	BCOF	Offset for BCUT		0~(63)~127	63		63		78**		63		

DX1A SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}											
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)											
Register No & Name	Control Register Function & Link		Data Type	Data Range	Data Initial/Average 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						C: Common data
1	RGBS	R_ON/G_ON/B_ON: R/G/B outputs on/off (AKB reference pusle can not be turned on/off.) (0,1/0,1/0,1)	C	0~7	7						
2	BLKB	BLK_BTМ: RGB output bottom limit level (Black Limit) (AKB reference pusle 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						Video1~4: CVideo1~4 & SVideo1~3
						U/VHF & Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
8	SYPH	SYNC_PHASE: Hsync delay with respect to Video (100%: H-period)		0~3	0	0	0	0	0	0	
9	CLPH	CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	3	3	3	3	3	3	
10	CLGA	CLP_GATE: Switch for the gated internal clamp pulse with Hsync		0, 1	0	0	0	0	0	0	
11	JAXS	JAXIS: Color axis switch		0, 1	0						
12	BLKO	BLKO: Blanking switch		0, 1	0						

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1/3)
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)								Comment
				Picture Mode: Vivid								
				UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P		
0	SYSM	SYSTEM: Signal bandwidth setting		0~3	1	1	1	1	1	2	2	These settings continue to the next page. <u>CV</u> : CVideo1~4 <u>SV</u> : SVideo1~3 <u>C</u> : Common data (): Settings at center
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	
3	VMCR	VM_COR: VM_OUT coring level		0~3	3	3	3	3	3	3	3	
4	VMLM	VM_LMT: VM_OUT limit level		0~3	3	3	3	3	3	3	3	
5	VMF0	VM_F0: VM_f0		0~3	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	1	3	
7	SHOF	Offset for USHP = SHOF x 4		0~3	2	2	2	3	3	0	2	
8	SHF0	SHP_F0: Sharpness circuit f0		0, 1	1	1	1	1	1	0	1	
9	PROV	PRE/OVER: Y signal pre/over-shoot ratio		0~3	3	3	3	1	3	0	3	
10	F1LV	SHP_F1: Sharpness for higher f0 (4.2/5.6 MHz @ NORMAL mode)		0~3	0	3	3	3	3	3	3	
11	CDSP	SHP_CD: Sharpness in part of high color saturaion		0~3	3	3	3	3	3	3	3	
12	LTLV	LTI_LEV: Luminance transient improvement (LTI)		0~3	3	3	3	3	3	3	3	
13	LTMD	LTI_MODE: LTI mode setting		0~3	0	0	0	0	0	0	1	
14	CTLV	CTI_LEV: Chrominance transient improvement (CTI)		0~3	0	0	0	0	0	2	0	
15	CTMD	CTI_MODE: CTI mode setting		0~3	0	0	0	0	0	0	0	
16	UBOF	Offset for UBRT (Picture clarity adjustment)		0~(7)~15	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	0	3	
18	UHOE	Offset for UHUE (Picture clarity adjustment)		0~3	0	0	0	0	0	0	0	
19	MIDE	MID enhancement setting		0~15	3	3	3	7	11	---	---	

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-2/3)

Register No & Name	Data Initial/Average Settings (32V&36V CRTs)							Data Initial/Average Settings (32V&36V CRTs)							Data Initial/Average Settings (32V&36V CRTs)							Note	
	Picture Mode: Standard							Picture Mode: Movie							Picture Mode: Pro								
	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	CV	SV	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P		
#0 SYSM (cont.)	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	See next page	
#1 UVML (cont.)	3							0							0								
#2 VMMO (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#3 VMCR (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
#4 VMLM (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
#5 VMF0 (cont.)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
#6 VMDL (cont.)	1	3	3	3	3	1	3	1	1	1	1	1	1	3	1	1	1	1	1	1	3		
#7 SHOF (cont.)	0	3	3	3	3	0	2	0	3	3	3	3	0	3	0	3	3	3	3	0	3		
#8 SHF0 (cont.)	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1		
#9 PROV (cont.)	3	3	3	1	3	0	3	3	3	3	1	3	0	3	3	3	3	1	3	0	3		
#10 F1LV (cont.)	0	3	3	3	3	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	3		
#11 CDSP (cont.)	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#12 LTLV (cont.)	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#13 LTMD (cont.)	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1		
#14 CTLV (cont.)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#15 CTMD (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#16 UBOF (cont.)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
#17 UCOF (cont.)	3	3	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#18 UHOF (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
#19 MIDE (cont.)	2	2	2	6	10	---	---	1	1	1	5	9	---	---	0	0	0	4	8	---	---		

DX1A SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-3/3)						
Register No & Name	Data Initial/Average Settings (32V&36V CRTs)					Comment
	SNNR=0 (Offset)	SNNR=1 (Offset)	SNNR=2 (Offset)	SNNR=3 (Offset)		
#1 UVML (cont.)	0	0	0	0		
#3 VMCR (cont.)	0	+ 1	+ 2	+ 3		
#10 FILV (cont.)	0	- 1	- 2	- 3		
#11 CDSP (cont.)	0	0	0	0		
#12 LTLV (cont.)	0	0	0	0		
#14 CTLV (cont.)	0	0	0	0		
#19 MIDE (cont.)	0	0	0	0		

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1/4)										
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA) Slave Address: 86h										
Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B) Slave Address: 40h										
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)					Comment
					Vivid		Standard		Movie	Pro
					32V	36V	32V	36V	32&36V	
0	UPIC	PICTURE: Picture		0~63	63	63	42	46	31	31
1	UBRT	BRIGHT: Brightness		0~63	25	22	28	26	28	31
2	UCOL	COLOR: Color		0~63	34	38	33	33	33	31
3	UHUE	HUE: Hue		0~63	31	31	31	31	31	31
		SNNR Setting-related Controls for USHP								
4	USHP	SHARPNESS: Sharpness		0~63	38	42	44	48	34	31
5	UTMP	Color Temporature (0: Warm, 1: Neutral, 2: Cool)		0~2	2	2	1	1	0	1
6	UDCL	DCOL: Dynamic color setting		0~3	2	2	2	2	2	0
					Picture Mode: Vivid / Standard / Movie					
					UHF/VHF Video1~4		YPbPr 480i	YPbPr 480n	YPbPr 1080i	P&P
7	AXIS	COL_AXIS: Color matrix setting		0~3	3		3	3	3	3
					Picture Mode: Vivid					
					UHF/VHF Video1~4		YPbPr 480i	YPbPr 480n	YPbPr 1080i	P&P
8	UGAM	GAMMA/GAMMA_L: RGB output GAMMA correction setting (B _{7~6}) GAMMA_L: Slight GAMMA correction on/off (B ₀)		0~7 (0~3/0,1)	5		5	5	5	5
9	AGAM	GAMMA/GAMMA_L (Av Pro user control) --- Void Data		0~7 (0~3/0,1)	---					
		UGAM Setting-related Controls for GSBO, GCOO, GHUO			UGAM = 7	UGAM = 6	UGAM = 5	UGAM = 4	UGAM = 3	UGAM = 2 UGAM = 1
10	GSBO	Offset for SBRT (8 types of GSBO data based on UGAM values)		0~3	0	0	0	0	0	0
11	GCOO	Offset for UCOL		0~3	0	0	0	0	0	0
12	GHUO	Offset for UHUE		0~3	0	0	0	0	0	0
					Picture Mode: Vivid					
					UHF/VHF Video1~4		YPbPr 480i	YPbPr 480n	YPbPr 1080i	P&P
13	UBLK	Item # 15~18 pack FI data controls		0~7	7		7	7	7	7
14	ABLK	(Av Pro user control) --- Void Data	---	0~7	0 (Void data)					
		UBLK Setting-related Controls for DCTR								
15	DCTR	DC_TRAN: Y signal DC transmission (8 types of DCTR data based on UBLK values)		0~3	3		3	3	3	2
16	DPIC	DPIC_LEV: Y signal AUTO PEDESTAL level		0~3	2		2	2	2	1
17	DSBO	Offset for SBRT		0~(7/7)~15	7		7	7	7	7
18	ABLM	ABL_MODE: ABL mode		0~3	1		1	1	1	1

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-2/4)													
Register No & Name		Data Initial/Average Settings (32V&36V CRTs)				Data Initial/Average Settings (32V&36V CRTs)				Data Initial/Average Settings (32V&36V CRTs)			Note

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-3/4)									
Register No & Name	Data Initial/Average Settings (32V&36V CRTs)								Comment
	UBLK = 7	UBLK = 6	UBLK = 5	UBLK = 4	UBLK = 3	UBLK = 2	UBLK = 1	UBLK = 0	
#15 DCTR (Cont.)	3	2	2	2	1	1	1	1	
#16 DPIC (Cont.)	2	3	2	1	3	2	1	0	
#17 DSBO (Cont.)	7	7	7	7	7	7	7	7	
#18 ABLM (Cont.)	1	0	0	1	0	0	0	0	

DX1A SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-4/4)										
Register No & Name	Control Register Function & Link		Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)					Comment
19	ABLT	ABL_TH: ABL current detection Vth control		0~15	0					<div>Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) (): Settings at center C: Common data</div>
					Full	Vcomp1	Vcomp2			
20	ABLC	Control of CXA2026 {0Ch -- DAC0} (*)		0~255	0	66				
21	EPOF	Offset for UPIC = EPOF x (UPIC/63) (for power save) --- Void	---	0~31						
		ID-1 and P&P Modes								
22	SPOF	Offset for UPIC = SPOF x (UPIC/64) --- Data Not Used	---	0~31	0 (Not used)					
					UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
23	SCON	SUB_CONTRAST: SUB PICTURE		0~15	9	8	11	10	9	
24	CLOF	Offset for UCOL		0~(7)~1	8	8	9	7	8	
25	HUO	Offset for UHUE		0~7~15	4	3	3	3	4	
		CXD2085 Service Controls								
26	IDSW	Switch for activating the selection in #26 DATA	C	0, 1	0					
					Full	Vcomp1	Vcomp2			
27	DATA	Selection of geometry-forced vertical compression modes	C	0~3	0	1	2			

DX1A SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}**Device Name:** CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)**Slave Address:** 86h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
				Full	Vcomp1	Vcomp2	
0	VPOS	V POSITION: Vertical position (V_DRV signal DC-b)	Adj.	0~(31)~63	26 [26]		Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
1	VSIZ	V SIZE: Vertical size (V_DRV signal gain)	Adj.	0~(31)~63	19 [19]		
2	VLIN	V_LINEARITY: Vertical linearity (Gain for V_DRV signal secondary component)	Adj.	0~(7)~15	9 [9]		
3	VSCO	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15	8 [8]		Adj.: Adjusted data (): Settings at center
4	VCEN	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment	Adj.	0~(31)~63	31 [31]		VCEN-L(Low bit) VCEN-H(High bit)
5	VPIN	VSAW0_DCH: VSAW0 waveform DC component VSAW0_AMP: Vertical PIN adjustment	Adj.	0~(15)~31	15 [15]	15 [Copy1]	[Copy1]: Copy the adjusted data for Full mode.
6	NSCO	VSAW1_DC: Rotation	Adj.	0~(7)~15	7 [7]		Either 7 or 8 can be used as the average NSCO data.
7	HTPZ	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31	15 [15]		(If both of them are not good, please feedback to / check with the DY attachment process.)
8	ZOOM	ZOOM_SW: Zoom switch		0, 1	0	0	
9	APSW	ASP_SW: Aspect switch		0, 1	1	0	
10	ASPT	V_ASPECT: Aspect ratio	Adj.	0~63	47	47	
11	SCRL	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32	
12	UVLN	UP_VLIN: Upper vertical linearity		0~15	0	0	
13	LVLN	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) / P/N: 8-752-093-35 (SBorSD#: NA)							
Slave Address: 86h							
Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
0	HCNT	HC PARA DC: Horizontal center	Adj.	0~(31)~63	Full	Vcomp1	Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display (): Settings at center Adj.: Adjusted data [Adj.-6steps]: The adj. data for Vcomp2 mode = The adj. data for Full/Vcomp1
1	HPOS	H_POSITION: Horizontal position	Adj.	0~(31)~63	31	31	
2	HSIZ	H_SIZE: Horizontal size	Adj.	0~(31)~63	[31]	[Adj.-6steps]	
3	SLIN	MP PARA DC: Horizontal S-correction	Adj.	0~15	45	[45]	
4	MPIN	MP PARA AMP: Horizontal middle pin		0~15	3	[3]	Data (32Vor36V): The data for 36V are used as the Initial & CBA data. From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.
5	PIN	PIN AMP: Horizontal pin	Adj.	0~(31)~63	9	(32V) or 7 (36V)	
6	UCP	UP CPIN: Upper corner pin	Adj.	0~(31)~63	35	[35]	
7	LCP	LO CPIN: Lower corner pin	Adj.	0~(31)~63	38	[38]	
8	UXCG	UP UCG: Upper extra corner pin gain		0~3	42	[42]	For engineering design use only
9	LXCG	LO UCG: Lower extra corner pin gain		0~3	2	(32V) or 1 (36V)	
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	15	[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 + nter.)	Micro	0, 1	0		
Note:							

DX1A SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}								
Device Name: CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)								
Slave Address: 86h								
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)			Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
0	HBLK	HBLK_SW: Horizontal blanking switch		0, 1	1			
1	LBLK	LEFT_BLK: Left blanking		0~63	45	50		
2	RBLK	RIGHT_BLK: Right blanking		0~63	24	27		
3	VBLK	VBLK_SW: Vertical blanking switch		0, 1	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	VFRO	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) / P/N: 8-752-093-84 (SD#: S00302B)								
Slave Address: 84h								
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V & 36V CRTs)			Comment
					480i (15.75 KHz)	480p (31.50 KHz)	1080i (33.75 KHz)	Video5&6: YPbPr-480i/480p/1080i inputs Sub: 480i input from the sub-channel
0	MTRX	MAT_OUT: Selection of color matrix conversion types	Micro	0~3	0	0	1	
1	GAIN	GAIN_SEL: Selection of output signals for S_LYOUT, S_LCBOUT, S_LCROUT, YGAIN, CBGAIN, CRGAIN:	C	0~3	0			
2	CBGN	The gain control of S_LYOUT, S_LCBOUT, & S_LCROUT	C	0~15	9			Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
3	VTC	V_TC: Setting of Vsync separation time constant	C	0~3	1			
4	HWID	H_WIDTH: Setting of the output pulsewidth of SELHOUT	C	0~3	1			
					Video5	Video6	Sub	C: Common data
5	HSEP	HSEP_SEL: Setting for the sync separation system		0, 1	0	0	0	
6	TEST	TEST: Test mode selection (for device tests)	C	0, 1	0			
7	FRGB	The forced RGB selection (for tests) {0: MAT_OUT = MTRX (#0), 1: MAT_OUT = MTRX (#3)}	C	0, 1	0			
					Full	Vcomp1	Vcomp2	
8	HMSK	Hsync masking in vertical retrace		0, 1		1	0	
Note:								

DX1A SERVICE LIST (#6): D-CONV / CXA8070									
Device Name: CXA8070AP { DY-Convergence Control / SONY } / IC5513 (D-board) / P/N: 8-759-595-52 (SB#: V1718)									
Slave Address: DEh									
Register No & Name		Control Register Function & Link		Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
						Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display mode Vcomp1: 480p/960i (16x9) display mode Vcomp2: 1080i (16x9) display mode Adj.: Adjusted data From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.
0	SBHS	DC AMP3: DC shift	Adj.	0~63	31 [31]	31	[31]		
1	YBWU	VCA9: Upper Y-bow	Adj.	0~63	31 [31]	31	[31]		
2	YBWL	VCA10: Lower Y-bow	Adj.	0~63	31 [31]	31	[31]		
3	RSAP	DC AMP2: Right H-AMP	Adj.	0~63	31 [31]	31	[31]		
4	RUBW	VCA5: Right upper bow	Adj.	0~63	31 [31]	31	[31]		
5	RLBW	VCA6: Right lower bow	Adj.	0~63	31 [31]	31	[31]		
6	LSAP	DC AMP1: Left H-AMP	Adj.	0~63	31 [31]	31	[31]		
7	LUBW	VCA1: Left upper bow	Adj.	0~63	31 [31]	31	[31]		
8	LLBW	VCA2: Left lower bow	Adj.	0~63	31 [31]	31	[31]		
9	CADJ	DC AMP4: Offset adjustment (ADJ)	Adj.	0~63	48 [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) / P/N: 8-752-074-64 (SD#: S95610B)									
Slave Address: 8Eh									
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment	
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display mode Vcomp1: 480p/960i (16x9) display mode Vcomp2: 1080i (16x9) display mode C: Common data Adj.: Adjusted data	
0	DFON	SW0: DF on/off switch	C	0, 1	0				
1	DQP	PWM: DQP phase	Adj.	0~63	23 [23]	23 [23]			
2	DF	DAC1: DF phase	Adj.	0~63	25 [25]	25 [25]			
3	DQPD	H.AMP: DQP dc-level	Adj.	0~63	34 [34]	34 [34]			
4	QPDV	U.CBOW, L.CBOW: DQP dc-level vertical modulation		0~63	51	47			
5	DVS	U.CBOW, L.CBOW: DQP dc-level tilt		0~(3)~7	0	0		U.CBOW = QPDV + DVS L.CBOW = QPDV - DVS	
6	QPDY	U.MBH,L.MBH: DQP dc-level at top & bottom areas		0~63	7	7		(): Settings at center	
7	DQPA	DC SHIFT: DQP amplitude	Adj.	0~63	22 [27] (32V) or 13 [15] (36V)	22 [27] (32V) or 13 [15] (36V)	22 [27] (32V) or 13 [15] (36V)	Data (36V) are used as Initial/CBA data. From the system micro (V 2.0), most deflection control-related initial settings are the same as their average data.	
8	QPAV	U.YBOW, LYBOW: DQP amplitude vertical modulation		0~63	38	34		U.YBOW = QPAV + AVS	
9	AVS	U.YBOW, LYBOW: DQP amplitude tilt		0~7	3	3		L.YBOW = QPAV - AVS	
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			For engineering design use only	
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) / P/N: 8-759-678-92 (SBorSD#: NA)						
Slave Address: 82h						
Register No & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Average Setting (32V&36V CRTs)	Comment
0	SVOL	Volume: Offset for Volume		0~3	0	
1	SBAL	Balance: Offset for Balance		0~(3)~7	7	(): Settings at center
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:						

DX1A SERVICE LIST (#9): TruSurround (TRUS) / NJM2180						
Device Name: NJM2180M { TruSurround 3D-Audio Processor / JRC } / IC4101 (S-board) / P/N: 8-759-686-15 (SB#: V9072)						
Device Control: Controlled via CXA1315M (Audio Control D/A, IC4103/S-board, Slave Address: 48h) / P/N: 8-752-059-23 (SD#: S88Z45B)						
Register No & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Average Setting (32V&36V CRTs)	Comment
0	TS	TruSurround effect selection		0~3	2	C: Common data
1	DMY1	Dummy data (No functions)	C	0~255	0	DMY1 is used to fulfil the minimum requirement of 2 control items in each service control category.
Note:						

DX1A SERVICE LIST (#10): MID1 (Common Data)							
Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)							
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }							
MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)							
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)							
Register No & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)		Comment
					MID Mode: All (Single & P&P & Favorite)		
0	DHPH	Horizontal phase of the active display area	d h phase	C	0~255	91	C: Common data
1	DVPH	Vertical phase of the active display area	d v phase	C	0~63	20	
2	DHAR	Horizontal size of the active display area	d h area	C	0~255	240	
3	DVAR	Vertical size of the active display area	d v area	C	0~255	135	
4	DHPW	Horizontal pulse width	d h pwidth	C	0~63	27	
5	DVPW	Vertical pulse width	d v pwidth	C	0~7	7	
6	DYCD	Delay of YC signal output	d yc delay	C	0~63	2	
7	DYSD	Delay of YS signal output	d ys delay	C	0~7	1	
					MID Mode: Signle & Favorite		
					Single 480i&n	Single 1080i	Favorite
8	MDHP	Horizontal position of the main picture	m dsp hpos		0~255	33	12
9	MDVP	Vertical position of the main picture	m dsp vpos		0~255	32	8
10	MDHS	Horizontal size of the main picture	m dsp hsiz		0~255	230	158
11	MDVS	Vertical size of the main picture	m dsp vsiz		0~255	120	135
						106	
					MID Mode: P&P & Favorite		
12	MLHP	(Horizontal position of the multi pictures)			0~255	54	
13	MLVP	(Vertical position of the multi pictures)			0~255	31	
					MID Mode: Favorite		
14	SDHP	Horizontal position of the sub picture	s dsp hpos		0~255	172	
15	SDVP	Vertical position of the sub picture	s dsp vpos		0~255	14	
16	SDHS	Horizontal size of the sub picture	s dsp hsiz		0~255	61	
17	SDVS	Vertical size of the sub picture	s dsp vsiz		0~255	41	
					MID Mode: All (Single & P&P & Favorite)		
18	DPSW	Switch of display output PLL	dsp_pll_sw	C	0, 1	1	
19	MDL0	Model selection 0 (0: 16x9, 1: 4x3)		C	0, 1	0	
Note:							

DX1A SERVICE LIST (#11): MID2 (DRC-in Data)													
Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)													
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }													
MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)													
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)													
Register No & Name		Control Register Function & Link		Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)						
						MID Mode: Single		MID Mode: P&P & Favorite			MID Mode: Freeze		
						YC 480i	YPbPr 480i	YC 480i	YPbPr 480i	YC 480i-(R)	YC 480i	YPbPr 480i	
0	DRHP	Horizontal position of the active display area (DRC-in)	drc_hactv_pos			0~255	120	116	131	129	137	138	136
1	DRHS	Hsize of the active display area (DRC-in)	drc_hactv_siz			0~255	174	174	167	167	168	165	165
2	DRVp	Vposition of the active display area (DRC-in)	drc_vactv_pos			0~63	38	38	53	53	53	53	53
3	DRVS	Vertical size of the active display area (DRC-in)	drc_vactv_siz			0~255	120	120	112	112	112	112	112
Note:													

DX1A SERVICE LIST (#12): MID-3 (VDO-in Data) (Part-1/2)										
Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)										
Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }										
MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)										
MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)										
Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Comment
						MID Mode: Single				Dummy-480i settings are used for No Signal cases. These settings continue to the next page.
							YPbPr 480P		Dummy 480i	
0	VDHP	Horizontal position of the active display area (VDO-in)	vdo_hactv_pos		0~255		122		179	
1	VDHS	Horizontal pixel size of the active display area (VDO-in)	vdo_hactv_pos		0~255		159		199	
2	VDVE	Vertical even position of the active display area (VDO-in)	vdo_vactv_evn		0~63		39		24	
3	VDVS	Vertical line size of the active display area (VDO-in)	vdo_vactv_pos		0~255		129		56	
						YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	
4	VDVO	Vertical odd position of the active display area (VDO-in)	vdo_vactv_odd		0~3	0	0	0	0	
5	VCPO	Clamp pulse output timing (VDO-in)	vdo_clp_pos		0~255	95	70	40	90	
6	VCWD	Clamp pulse width (VDO-in)	vdo_clp_wdt		0~7	3	3	3	3	
7	VYCD	Analog input YC delay (VDO-in)	vdo_yc_delay		0~63	0	0	0	0	
							YPbPr 480P	YPbPr 1080i		
8	VSTP	PD stop line count of external PLL (VDO-in)	vdo_pll_stop		0~255		119	160		
9	VSTT	PD start line count of external PLL (VDO-in)	vdo_pll_strt		0~15		7	0		
						MID Mode: All (Single & P&P & Favorite)				
10	VHSC	Horizontal sync cycle (VDO-in)	vdo_hsync_cyc		0~255	130				
Note:										

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

DX1A SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-1/4)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 8-759-691-88 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-128-BND, MID-XA Software: Version 03/30/00, (P/N: 8-759-689-66)

MID-XA Micro (MASK type): MB94918RPF-G-130-BND, MID-XA Software: Version 04/20/00, (P/N: 8-759-691-88)

Register No & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)			
Settings for P&P (Main)					UHF/VHF & CVideo				YPbPr-480i (DVD)			
					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
1	MHLY	Y coefficient code of Horizontal LPF (M)	m_hlpf_ycoef	0~3	1	1	1	1	1	1	1	1
2	MHLC	C coefficient code of Horizontal LPF (M)	m_hlpf_ccoef	0~3	3	3	3	3	3	3	3	3
3	MVLY	Y coefficient code of Vertical LPF (M)	m_vlpf_ycoef	0~3	0	0	0	0	0	0	0	0
4	MVLC	C coefficient code of Vertical LPF (M)	m_vlpf_ccoef	0~3	0	0	0	0	0	0	0	0
5	MHYR	Y coreing code of horizontal enhancement (M)	m_henh_ycore	0~3	0	0	0	0	0	0	0	0
6	MHYL	Y clipping code of horizontal enhancement (M)	m_henh_yclip	0~3	1	1	1	1	1	1	1	1
7	MHYE	Y level code of horizontal enhancement (M)	m_henh_yenh	0~7	4	0	0	0	3	0	0	0
8	MHYO	Y coefficient code of horizontal enhancement (M)	m_henh_ycof	0, 1	1	1	1	1	1	1	1	1
9	MHCR	C coreing code of horizontal enhancement (M)	m_henh_ccore	0~3	0	0	0	0	0	0	0	0
10	MHCL	C clipping code of horizontal enhancement (M)	m_henh_cclip	0~3	1	1	1	1	1	1	1	1
11	MHCE	C level code of horizontal enhancement (M)	m_henh_cenh	0~7	0	0	0	0	0	0	0	0
12	MHCO	C coefficient code of horizontal enhancement (M)	m_henh_ccoef	0, 1	1	1	1	1	1	1	1	1
13	MVYR	Y coreing code of vertical enhancement (M)	m_venh_ycore	0~3	0	0	0	0	0	0	2	2
14	MVYL	Y clipping code of vertical enhancement (M)	m_venh_yclip	0~3	1	1	1	1	1	1	1	1
15	MVYE	Y level code of vertical enhancement (M)	m_venh_yenh	0~7	0	0	0	0	0	0	2	5
16	MVCR	C coreing code of vertical enhancement (M)	m_venh_ccore	0~3	0	0	0	0	0	0	0	0
17	MVCL	C clipping code of vertical enhancement (M)	m_venh_cclip	0~3	1	1	1	1	1	1	1	1
18	MVCE	C level code of vertical enhancement (M)	m_venh_cenh	0~7	0	0	0	0	0	0	0	0
Note:												

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-2/4)											
Register No & Name		Data Initial/Average Setting (32V&36V CRTs)				Data Initial/Average Setting (32V&36V CRTs)				Comment	
		YPbPr-480p				YPbPr-1080i					
		Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid		
#0 POP (cont.)		8	9	10	11	12	13	14	15		
#1 MHLY (cont.)		1	1	1	1	1	1	1	1		
#2 MHLC (cont.)		3	3	3	3	3	3	3	3		
#3 MVLY (cont.)		0	0	0	0	0	0	0	0		
#4 MVLC (cont.)		0	0	0	0	0	0	0	0		
#5 MHYR (cont.)		0	0	0	0	0	0	0	0		
#6 MHYL (cont.)		1	1	1	1	1	1	1	1		
#7 MHYE (cont.)		4	0	0	0	4	0	0	0		
#8 MHYO (cont.)		1	1	1	1	1	1	1	1		
#9 MHCR (cont.)		0	0	0	0	0	0	0	0		
#10 MHCL (cont.)		1	1	1	1	1	1	1	1		
#11 MHCE (cont.)		0	0	0	0	0	0	0	0		
#12 MHCO (cont.)		1	1	1	1	1	1	1	1		
#13 MVYR (cont.)		0	0	2	2	0	0	0	0		
#14 MVYL (cont.)		1	1	1	1	1	1	1	1		
#15 MVYE (cont.)		0	0	2	5	0	0	0	0		
#16 MVCR (cont.)		0	0	0	0	0	0	0	0		
#17 MVCL (cont.)		1	1	1	1	1	1	1	1		
#18 MVCE (cont.)		0	0	0	0	0	0	0	0		
Note:											

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-3/4)

Register No.&Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Data Initial/Average Setting (32V&36V CRTs)
	Settings for P&P (Sub)				UHF/VHF & CV	YPbPr-480i (DVD)
0	POP Selection of service data tables (Table #: 0~15)			0~15	Pro Movie Standard Vivid	Pro Movie Standard Vivid
19	SHLY Y coefficient code of Horizontal LPF (S)	s_hlpf_ycoef		0~7	0 1 2 3	4 5 6 7
20	SHLC C coefficient code of Horizontal LPF (S)	s_hlpf_ccoef		0~7	0 0 0 0	0 0 0 0
21	SVLY Y coefficient code of Vertical LPF (S)	s_vlpf_ycoef		0~7	0 0 0 0	0 0 0 0
22	SVLC C coefficient code of Vertical LPF (S)	s_vlpf_ccoef		0~7	0 0 0 0	0 0 0 0
23	SHYR Y coreing code of horizontal enhancement (S)	s_henh_vcore		0~3	0 0 0 0	0 0 0 0
24	SHYL Y clipping code of horizontal enhancement (S)	s_henh_yclip		0~3	0 0 0 0	0 0 0 0
25	SHYE Y level code of horizontal enhancement (S)	s_henh_yenh		0~7	0 0 0 0	0 0 0 0
26	SHYO Y coefficient code of horizontal enhancement (S)	s_henh_ycof		0, 1	0 0 0 0	0 0 0 0
27	SHCR C coreing code of horizontal enhancement (S)	s_henh_ccore		0~3	0 0 0 0	0 0 0 0
28	SHCL C clipping code of horizontal enhancement (S)	s_henh_cclip		0~3	0 0 0 0	0 0 0 0
29	SHCE C level code of horizontal enhancement (S)	s_henh_cenh		0~7	0 0 0 0	0 0 0 0
30	SHCO C coefficient code of horizontal enhancement (S)	s_henh_ccof		0, 1	0 0 0 0	0 0 0 0
31	SVYR Y coreing code of vertical enhancement (S)	s_venh_vcore		0~3	0 0 0 0	0 0 0 0
32	SVYL Y clipping code of vertical enhancement (S)	s_venh_yclip		0~3	0 0 0 0	0 0 0 0
33	SVYE Y level code of vertical enhancement (S)	s_venh_yenh		0~7	0 0 0 0	0 0 0 0
34	SVCR C coreing code of vertical enhancement (S)	s_venh_ccore		0~3	0 0 0 0	0 0 0 0
35	SVCL C clipping code of vertical enhancement (S)	s_venh_cclip		0~3	0 0 0 0	0 0 0 0
36	SVCE C level code of vertical enhancement (S)	s_venh_cenh		0~7	0 0 0 0	0 0 0 0

DX1A SERVICE LIST (#13): MID-5 (Picture Data: MIDE) (Part-4/4)

Register No.&Name	Data Initial/Average Setting (32V&36V CRTs)	Data Initial/Average Setting (32V&36V CRTs)	Comment
	YPbPr-480p	YPbPr-1080i	
	Pro Movie Standard Vivid	Pro Movie Standard Vivid	
#0 POP (cont.)	8 9 10 11	12 13 14 15	
#19 SHLY (cont.)	0 0 0 0	0 0 0 0	
#20 SHLC (cont.)	0 0 0 0	0 0 0 0	
#21 SVLY (cont.)	0 0 0 0	0 0 0 0	
#22 SVLC (cont.)	0 0 0 0	0 0 0 0	
#23 SHYR (cont.)	0 0 0 0	0 0 0 0	
#24 SHYL (cont.)	0 0 0 0	0 0 0 0	
#25 SHYE (cont.)	0 0 0 0	0 0 0 0	
#26 SHYO (cont.)	0 0 0 0	0 0 0 0	
#27 SHCR (cont.)	0 0 0 0	0 0 0 0	
#28 SHCL (cont.)	0 0 0 0	0 0 0 0	
#29 SHCE (cont.)	0 0 0 0	0 0 0 0	
#30 SHCO (cont.)	0 0 0 0	0 0 0 0	
#31 SVYR (cont.)	0 0 0 0	0 0 0 0	
#32 SVYL (cont.)	0 0 0 0	0 0 0 0	
#33 SVYE (cont.)	0 0 0 0	0 0 0 0	
#34 SVCR (cont.)	0 0 0 0	0 0 0 0	
#35 SVCL (cont.)	0 0 0 0	0 0 0 0	
#36 SVCE (cont.)	0 0 0 0	0 0 0 0	

DX1A SERVICE LIST (#14): On-Screen Display (OSD)						
Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)						
Slave Address: 60h						
System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)						
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)						
Register No & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Average Setting (32V&36V CRTs)	Comment
0	HPOS	OSD horizontal position	C	0~255	23	C: Common data
1	HPOF	Horizontal position for Favorite mode	C	0~255	27 (while using V1.0-micros)	
2	VPOS	OSD vertical position	C	0~255	33 (while using V2.0-micros)	
3	VPOT	Vertical position for P&P (Twin) mode	C	0~255	5	
					32	
Note:						

DX1A SERVICE LIST (#15): SNNR

Related Control Devices:

μPD64082 { 3D-Comb / NEC } / IC3501 (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/Average 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
				WSLT Data / Threshold Range				
2	WSLT Noise level detection data thresholds for SNNR data (read data)		0~255	0~30	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 F1LV 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 UVML 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	
Note: Please refer to the part numbers and SBorSD numbers given in the service list for these devices.								

DX1A SERVICE LIST (#16): ID-1 Detection (ID1)						
Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B)						
Slave Address: 40h						
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average 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 (R- W) mode	C	0, 1	0	C: Common data
1	LNJI	LNJ1: 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 (#17): Closed Caption Display & Parental Control (CCD&VCHIP)						
Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK type) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board) / P/N: 8-752-916-40 (SD#: S97739B)						
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/Average 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 cointrol	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	0: MASK-type micro, 1: OTP-type micro
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	
Note:						

DX1A SERVICE LIST (#18): OPTIONS (OP)						
Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)						
Slave Address: 60h						
System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)						
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)						
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	DLY1	AC-RLY to MAIN-RLY timing = DLY1 x 50 ms	C	0~15	4	C: Common data
1	DLY2	Power-On Mute timing = DLY2 x 50 ms	C	0~31	12	
2	DLY3	DGC-RLY to MAIN-RLY timing = DLY3 x 50 ms	C	0~15	7	
3	RAMW	RAM monitor on/off	C	0, 1	0	
Note:						

DX1A SERVICE LIST (#19): IDENTIFICATION (ID)								
Device Name: M306V2ME-150FP (V1.0) or M306V2ME-151FP (V2.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)								
Slave Address: 60h								
System Micro (MASK type): M306V2ME-150FP, Sys-Software: Version 1.0 (used with Patch-B), P/N: 8-759-680-77 (SB#: V9091)								
System Micro (MASK type): M306V2ME-151FP, Sys-Software: Version 2.0 (used with Patch-A), P/N: 8-759-699-34 (SB#: V9091)								
Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)			Comment
		Shipping Destination-related Settings			US	Canda	Latin	
0	ID0	Selection of OSD languages & color systems		0~255	89	89	25	
1	ID1	Selection of composite & s-video inputs		0~255	127	127	127	
2	ID2	Selection of audio-related controls		0~255	239	239	239	
3	ID3	Selection of basic system settings		0~255	98	82	194	
4	ID4	Selection of basic system settings		0~255	203	203	251	
5	ID5	Selection of advanced system settings		0~255	177	177	177	
6	ID6	Selection of sub picture-related settings		0~255	54	54	54	
7	ID7	Selection of some reserved settings		0~255	24	24	88	
Note: The system micro name, software&patch versions, and the status of NVM devices are displayed only when in this service category (#19): ID.								

NOTES:

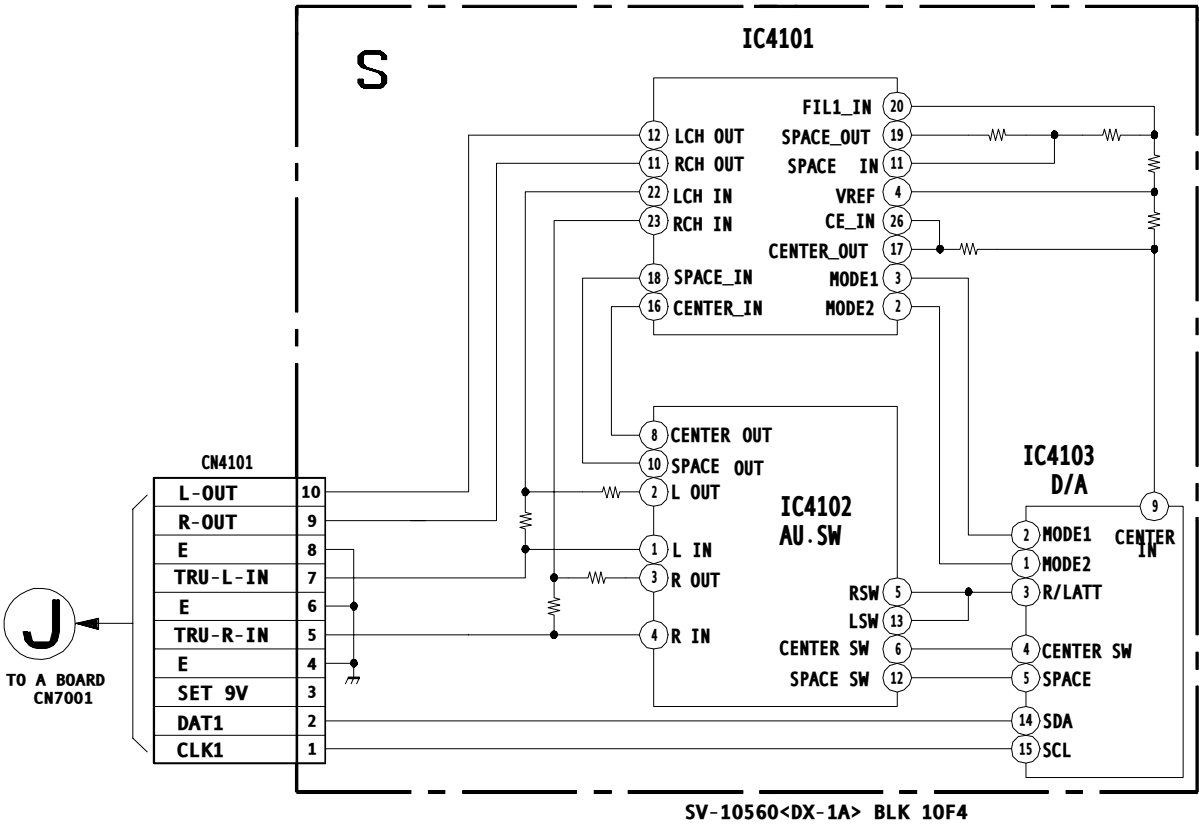
[illegible]

NOTES:

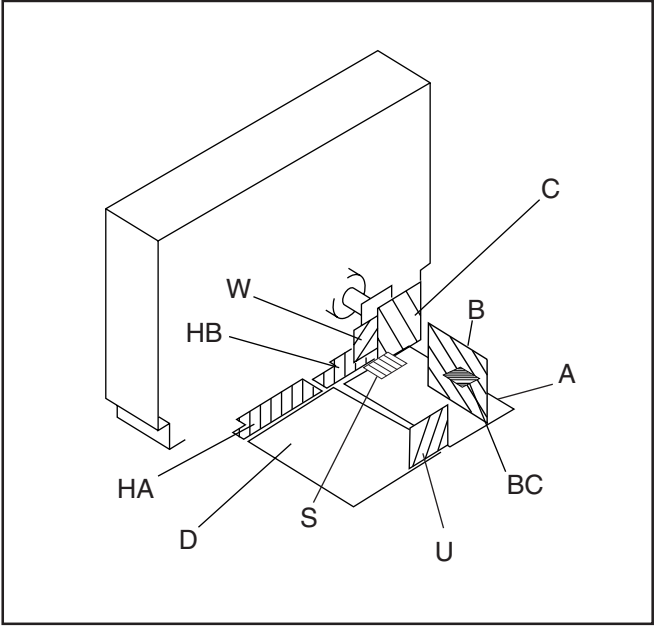
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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 50WV 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.
- \triangle : 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 safety adjustments on Page 23.)

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

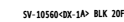
Part replaced()	Adjustment()
D BOARD: D8004, D8014, IC6503, IC8001, IC8003, IC8004, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD: RV8001 RV8002, RV8003

Reference information

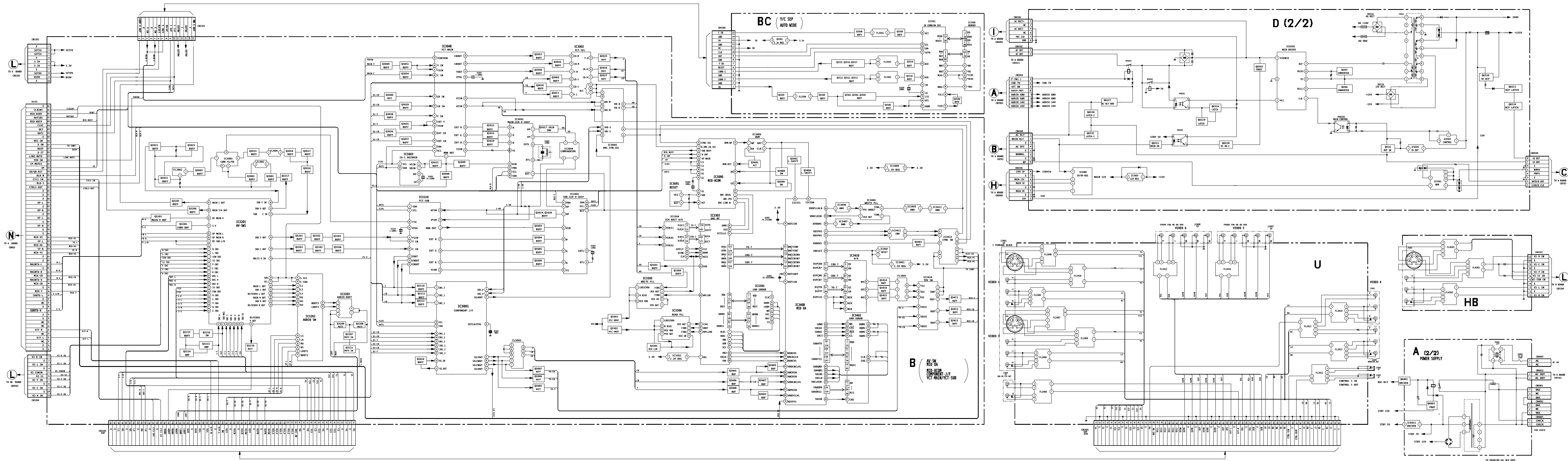
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: 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 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 per un trame et une marque 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 (3/4)

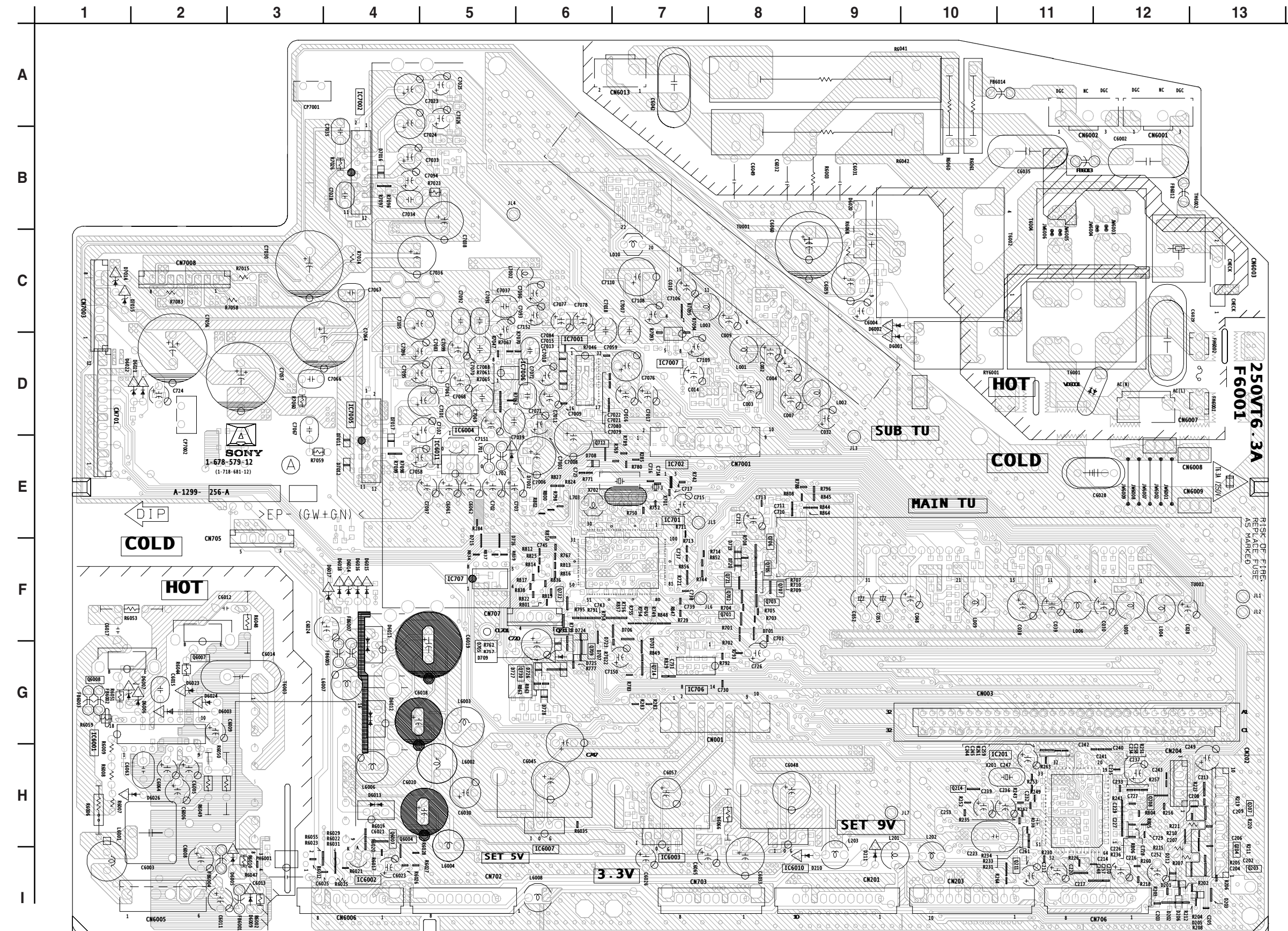


COMPONENT SIDE



DIODE		
	Component Side	Conductor Side
D004		G-8
D008		G-8
D203	J-13	
D205	J-13	
D208		A-12
D211	I-9	
D212	I-12	
D214		B-12
D215		B-12
D701	B-4	
D703	G-7	
D705	G-5	
D706	G-6	
D707	G-6	
D708	E-6	
D709	G-5	
D710		D-7
D711		D-7
D715	F-5	
D716	F-5	
D719	F-8	
D720	F-8	
D721		G-1
D722		G-1
D723	G-6	
D724	G-6	
D725	G-6	
D726	G-5	
D727	G-5	
D728	H-6	
D6001	D-9	
D6002	D-9	
D6003	H-2	
D6005	I-2	
D6009	J-3	
D6011	G-4	
D6012	H-4	
D6013	I-4	
D6014	F-4	
D6017	F-3	
D6018		D-3
D6020	B-9	
D6025		D-3
D7002	E-5	
D7003		F-6
D7004		F-8
D7005		F-6
D7009	H-4	
D7010		H-4
D7011	E-4	
D7012	E-4	
D7013		F-6
D7014	C-1	
D7016	B-4	
D7017	E-4	
D7103		E-4

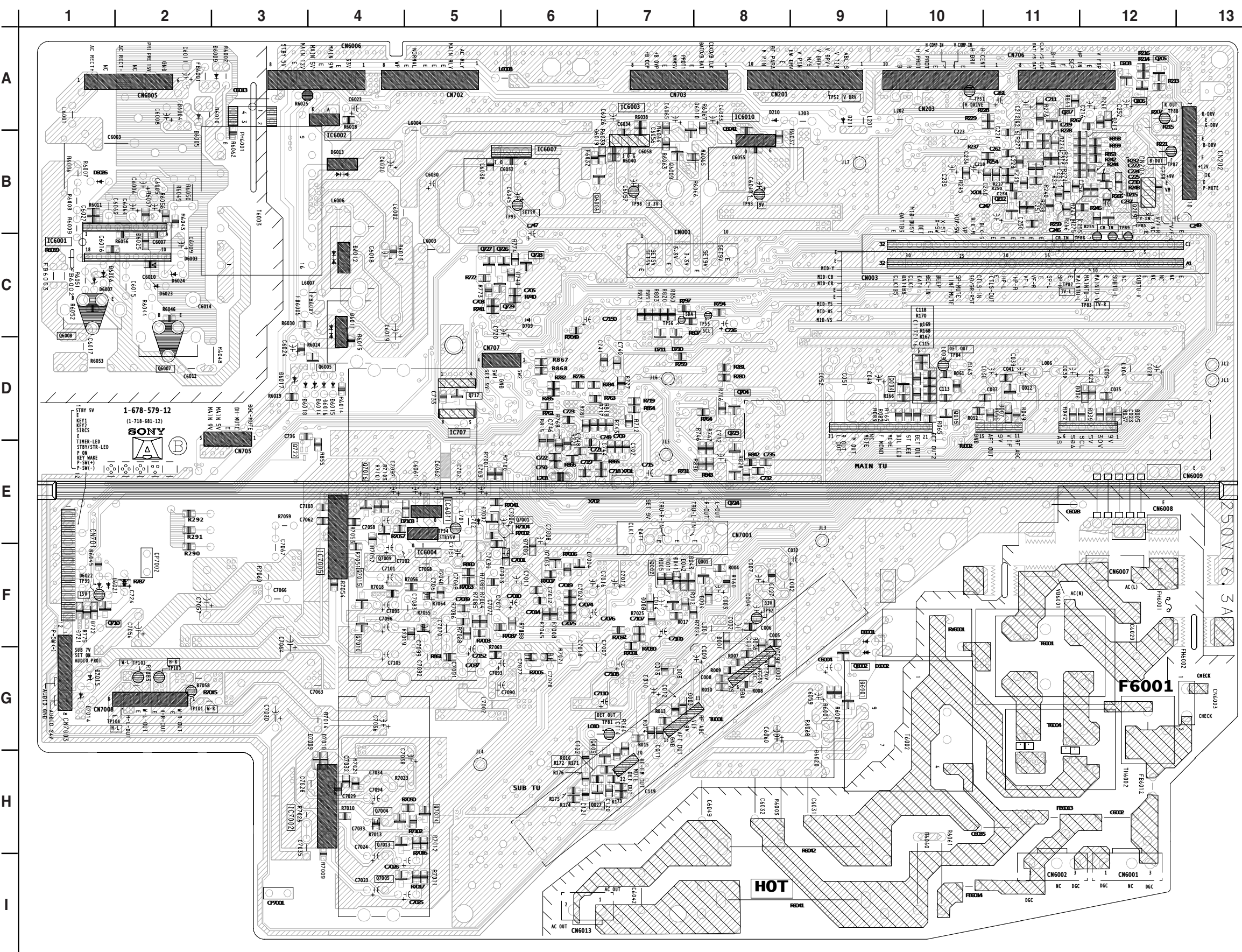
IC		
	Component Side	Conductor Side
IC201	H-11	
IC701	F-6	
IC702	E-7	
IC707	F-5	
IC6001	H-11	
IC6002	J-4	
IC6003	I-7	
IC6007	I-6	
IC6010	I-8	
IC6011	E-4	
IC7001	D-6	
IC7002	A-4	
IC7005	E-3	
IC7006	D-5	
IC7007	D-7	
TRANSISTOR		
Q001		F-8
Q002		F-8
Q004		D-10
Q005		H-6
Q012		D-11
Q015		E-10
Q027		I-6
Q203	J-13	
Q204	I-13	
Q205		A-13
Q206		A-13
Q207	I-13	
Q208	H-12	
Q209		B-12
Q211	I-11	
Q212		B-11
Q214	H-10	
Q216		A-11
Q217		A-12
Q701	G-8	
Q702	G-8	
Q703	G-8	
Q704		D-8
Q705	F-8	
Q706	F-8	
Q707	F-8	
Q709	G-6	
Q710		G-2
Q712	E-6	
Q717		D-5
Q721	F-7	
Q723		E-8
Q724	E-8	
Q726		C-5
Q727		C-6
Q728		C-6
Q729		D-6
Q730	G-5	
Q731	G-5	
Q6001		G-9
Q6002		G-10
Q6007	G-2	
Q6008	G-1	
Q6009		B-7
Q8010		A-8
Q7001		F-8
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]

CONDUCTOR SIDE



A BOARD IC VOLTAGE LIST

IC201	32	3.0
1	33	1.6
2	0	0
3	36	0.2
4	31	0
5	31	3.2
6	31	1.1
7	0	2.8
8	3.6	41
9	3.6	42
10	3.6	43
11	0	44
12	0.5	45
13	0.5	46
14	2.3	47
15	3.7	48
16	2.7	49
17	2.6	50
18	1.1	51
19	4.9	52
20	3.6	53
21	3.4	54
23	GND	56
24	NC	57
25	4.6	58
26	4.6	59
27	0.7	60
28	0	61
29	5.0	62
30	5.6	63
31	1.3	64

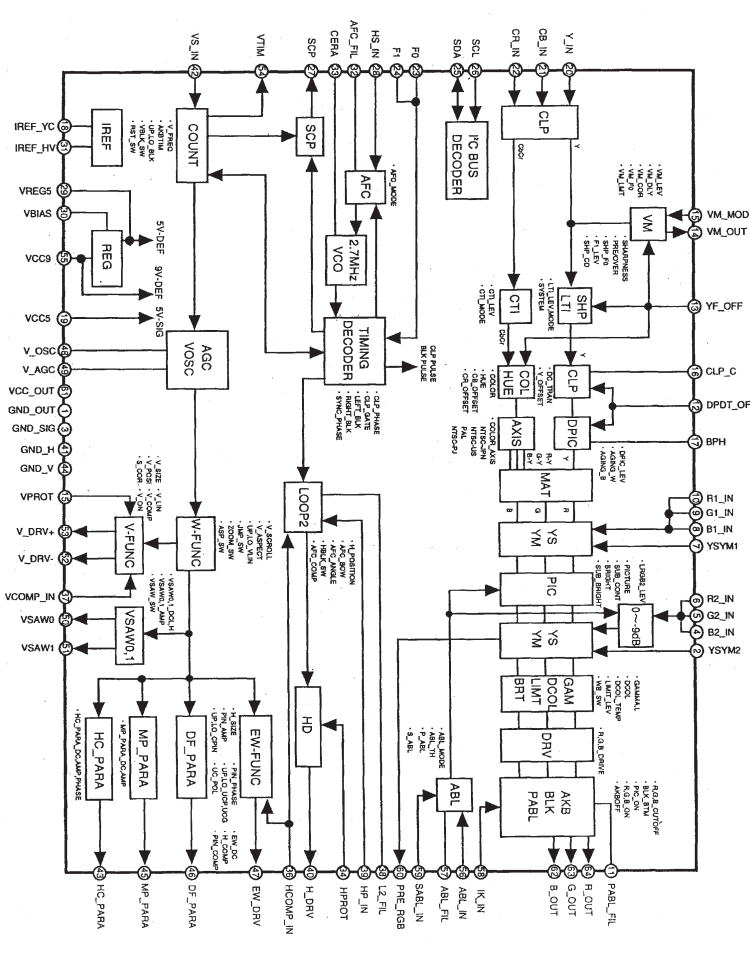
All voltages are in V

A BOARD TRANSISTOR VOLTAGE LIST

	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	3.6
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

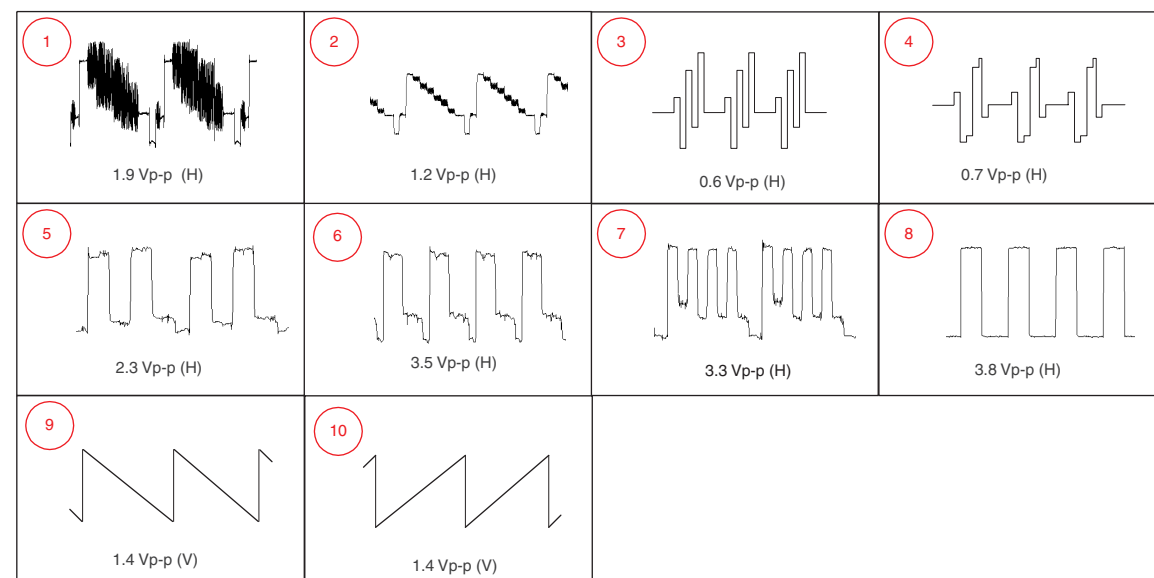


A BOARD LOCATOR LIST

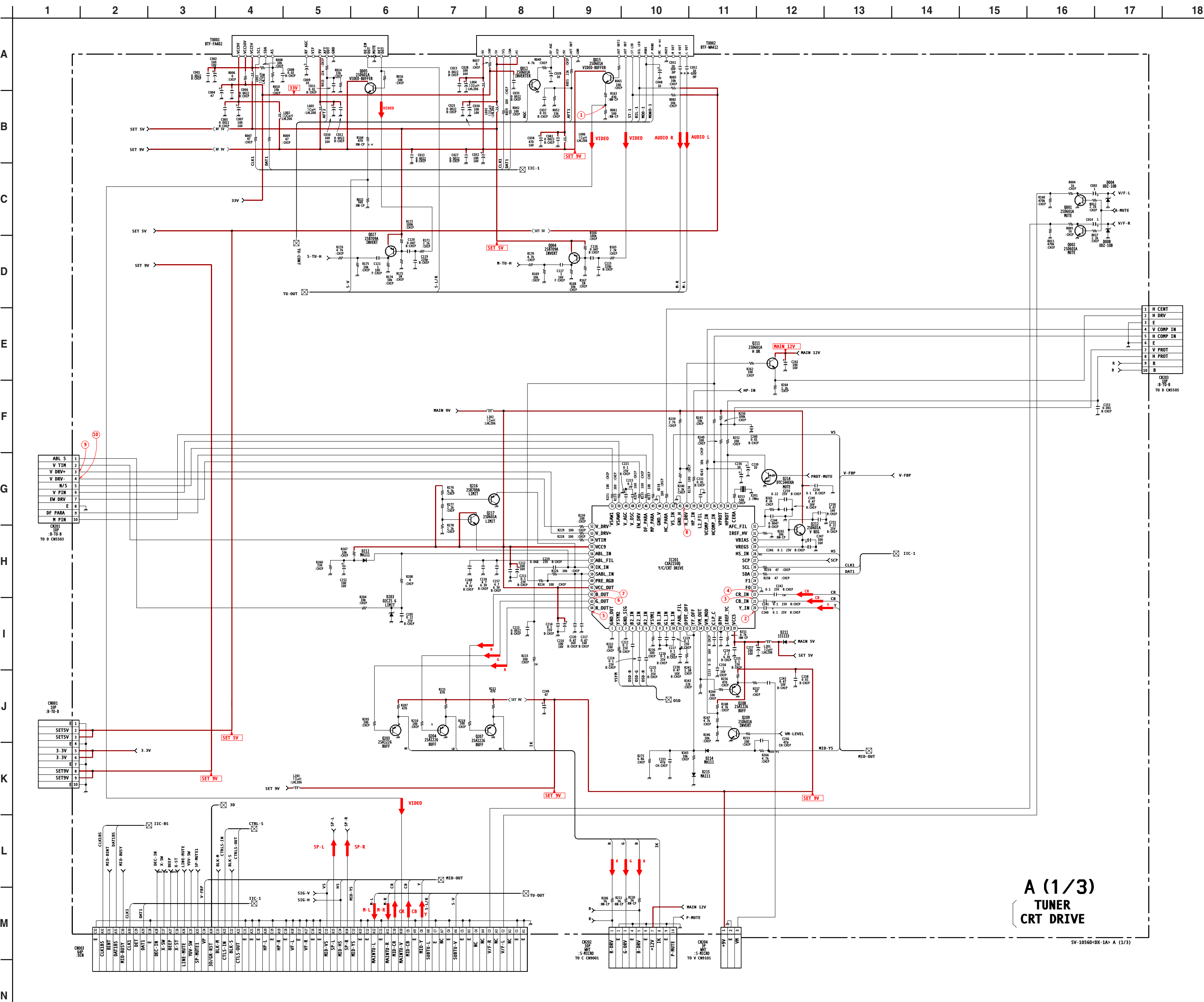
DIODE			A		B					A		B				
I-7	A	B	D6003	H-2	B	IC6003	I-7	A	B							
D004		G-8	D6005	I-2		IC6007	I-6					Q704	A	D-8		
D008		G-7	D6009	J-3		IC6010	I-8					Q705	F-8			
D203	J-13		D6011	G-4		IC6011	E-4					Q706	F-8			
D205	J-13		D6012	H-4		IC7001	D-6					Q707	F-8			
D208		A-12	D6013	I-4		IC7002	A-4					Q709	G-6			
D211	I-9		D6014	F-4		IC7005	E-3					Q710	G-2			
D212	I-12		D6017	F-3		IC7006	D-2					Q712	E-6	D-2		
D214	B-12		D6018		D-3	IC7007	D-7					Q717	D-5			
D215	B-12		D6020	B-9		TRANSISTOR								Q721	F-7	D-7
D701	B-4		D6025		D-3	A		B				Q723	E-8			
D703	G-7		D7002	E-5		Q001	F-8					Q724	E-8			
D705	G-5		D7003	F-6		Q002	F-8					Q726	C-5			
D706	G-6		D7004	F-6		Q004	D-10					Q727	C-6			
D707	G-6		D7005	F-6		Q005	H-6					Q728	C-6			
D708	E-6		D7009	H-4		Q012	D-11					Q729	D-6			
D709	G-5		D7010	H-4		Q015	E-10					Q730	G-5			
D710			D7011	E-4		Q027	I-6					Q6001	G-9			
D711	D-7		D7012	E-4		Q203	J-13					Q6002	G-10			
D715	F-5		D7013	F-6		Q204	I-13					Q6007	G-2			
D716	F-5		D7014	C-1		Q205	A-13					Q6008	G-1			
D719	F-8		D7015	C-1		Q206	A-13					Q6009	B-7			
D720	F-8		D7016	B-4		Q207	I-13					Q6010	A-8			
D721	G-1		D7017	E-4		Q208	I-12					Q7001	F-6			
D722	G-1		D7103	E-4		Q209	B-12					Q7004	I-4			
D723	G-6		IC		A	B						Q7005	J-4			
D724	G-6					Q211	I-11					Q7009	G-4			
D725	G-6		IC201	H-11		Q212	B-11					Q7010	G-4			
D726	G-5		IC701	F-6		Q216	A-11					Q7013	I-4			
D727	G-5		IC702	E-7		Q217	A-12					Q7014	I-5			
D728	H-6		IC707	F-5		Q701	G-8					Q7015	F-4			
D6001	D-9		IC8001	H-11		Q702	G-8					Q7016	E-4			
D6002	D-9		IC8002	J-4												

A = Component Side
B = Conductor Side

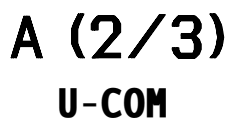
A BOARD WAVEFORMS (1 OF 3)



A BOARD SCHEMATIC DIAGRAM (1 of 3)

A (1/3)
TUNER
CRT DRIVE

5V-10560-00X-10V-A (1/3)



DIODE			IC		
	Component	Conductor		Component	Conductor
D9001	B-6		IC9001	B-3	
D9002		A-2	IC9002	B-2	
D9003	B-6		IC9003	B-5	
D9004		A-5	TRANSISTOR		
D9005	C-5		Component	Conductor	
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-6		Q9009	A-4	
D9016	B-6		Q9010	A-4	
D9017	B-6		Q9011	A-3	
			Q9012		B-1
			Q9014	C-6	

IC701			IC702		
pin	volt	34	0	67	0
1	NC	34	0	68	0
2	NC	35	NC	69	7.3
3	0	37	4.6	70	0
4	0	38	0	71	NC
5	0	39	0	72	6.3
6	0	40	0	73	0
7	4.7	41	2.3	75	NC
8	GND	42	0	76	0
9	GND	43	0	77	2
10	NC	44	2.8	78	0
11	NC	45	0.1	79	0
12	4.9	46	0	80	NC
13	2.3	47	4.6	81	0
14	4.4	GND	4.5	82	0
15	2.4	49	5.0	83	0
16	4.9	50	0	84	0
17	0	51	5.0	85	0
18	0	52	0	86	NC
19	0	53	3	87	0
20	2.8	54	0	88	0
21	0	55	0	89	0
22	0	56	0	90	0
23	0	57	NC	91	0
24	GND	58	0	92	0
25	0	59	0	93	0
26	NC	60	0	94	4.6
27	NC	61	0	95	4.6
28	4.4	62	4.9	96	GND
29	4.9	63	4.9	97	4.6
30	4.9	64	4.9	98	4.6
31	4.4	65	0	99	4.9
32	0	66	NC	100	4.6

All voltages are in V.

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	142.6	7	147.0
8	158.0	8	164.0	8	163.0
9	144.0	9	142.0	9	146.0

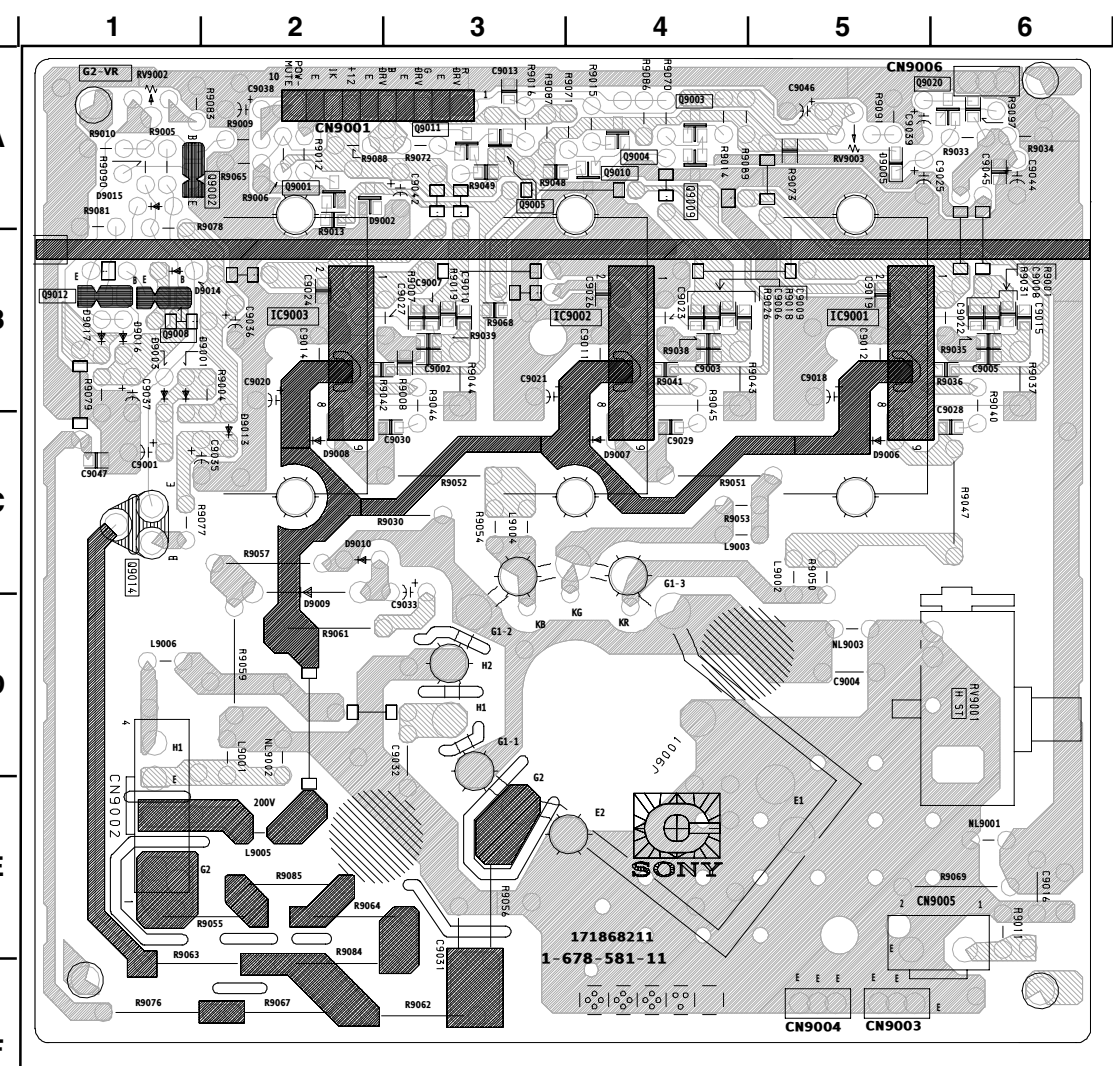
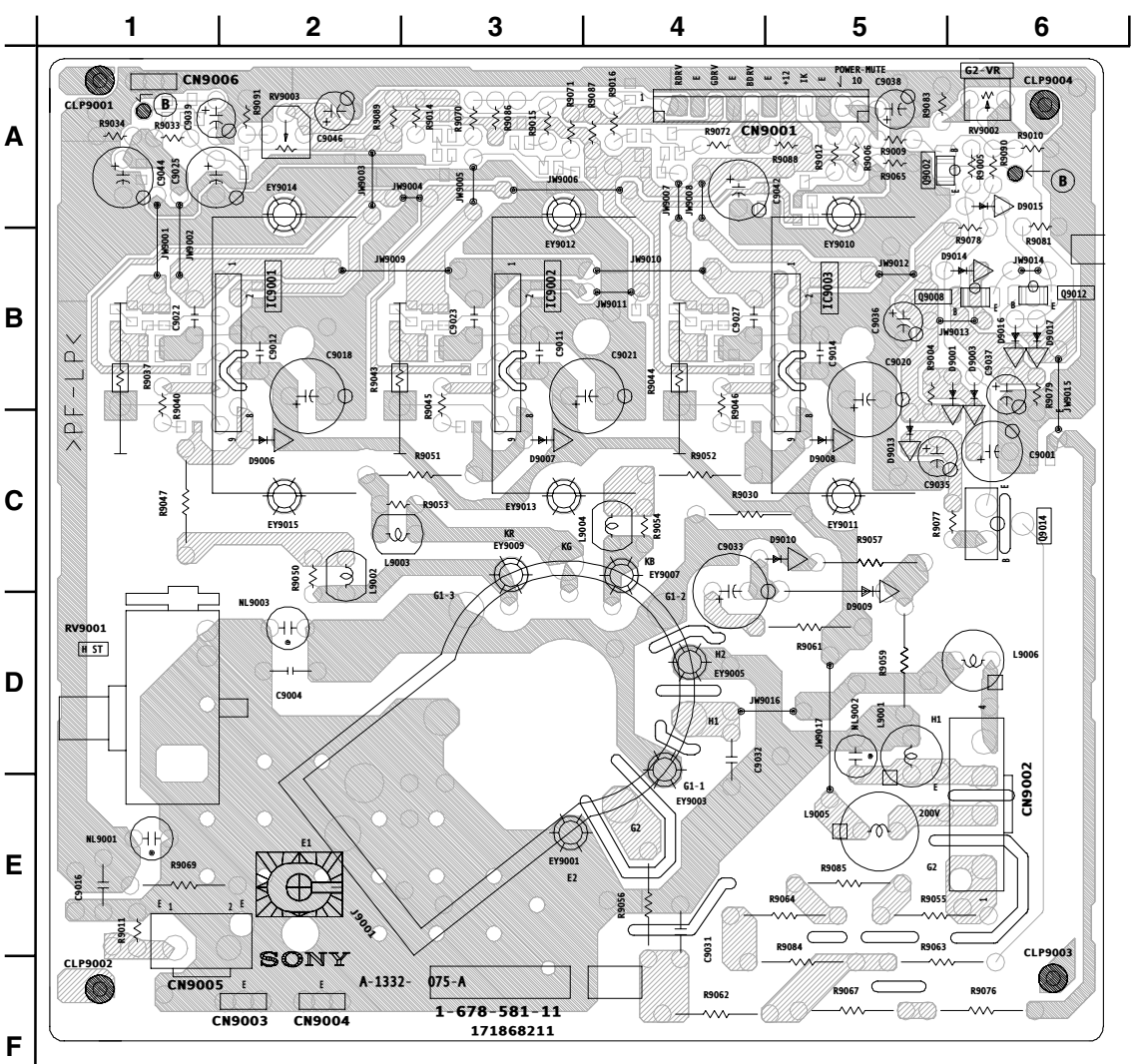
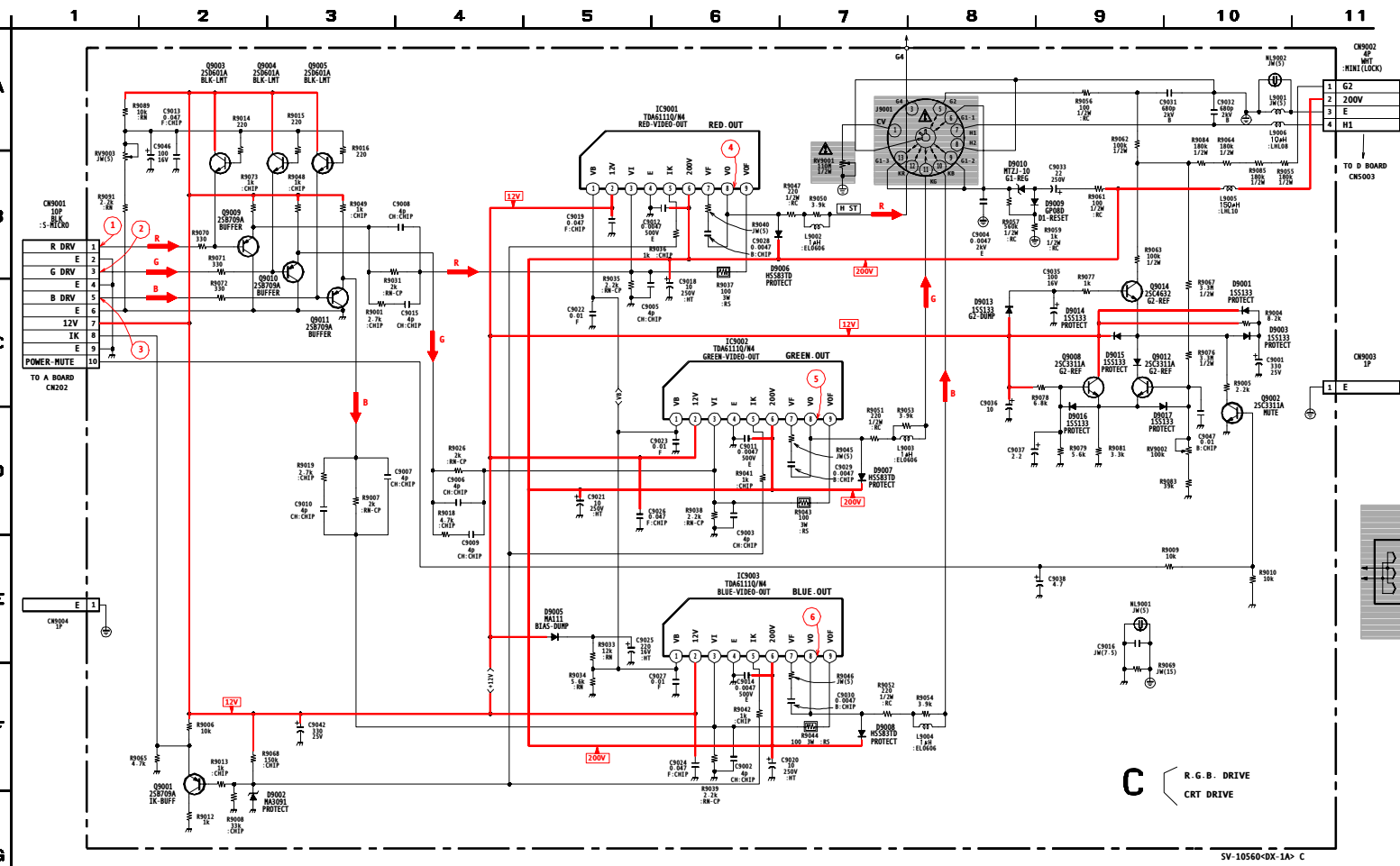
All voltages are in V.

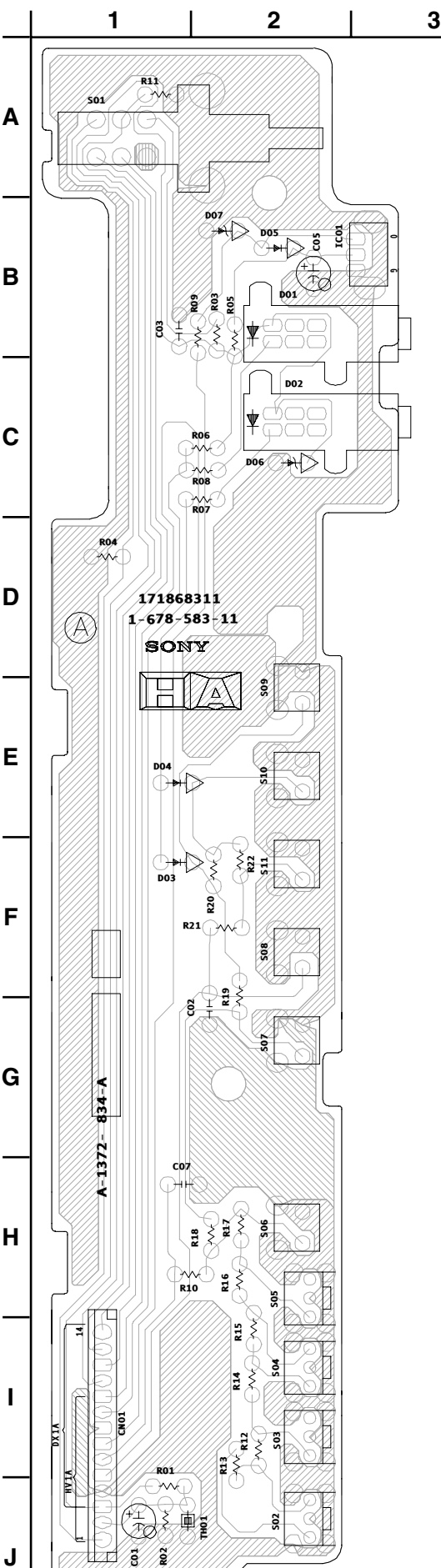
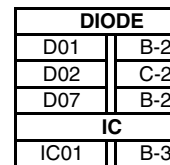
	B	C	E
Q9001	7.5	GND	3.6
Q9002	0.2	11.1	GND
Q9003	2.1	12.0	3.2
Q9004	2.1	12.0	3.2
Q9005	3.2	12.0	2.1
Q9008	5.4	12.0	4.8
Q9009	3.2	GND	3.9
Q9010	3.2	GND	4.0
Q9011	3.2	GND	3.9
Q9012	5.4	10.5	4.8
Q9014	11.7	450.0	11.1

	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	0.0
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 in V.

<p>1</p> <p>2.4 Vp-p (H)</p>	<p>2</p> <p>2.1 Vp-p (H)</p>	<p>3</p> <p>2.0 Vp-p (H)</p>
<p>4</p> <p>101 Vp-p (H)</p>	<p>5</p> <p>99.5 Vp-p (H)</p>	<p>6</p> <p>85.7 Vp-p (H)</p>







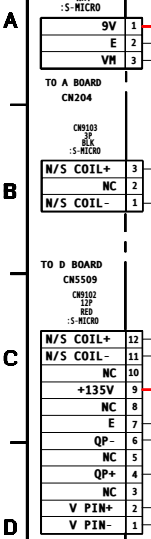
BC BOARD TRANSISTOR VOLTAGE LIST

All voltages in V.



W BOARD LOCATOR LIST

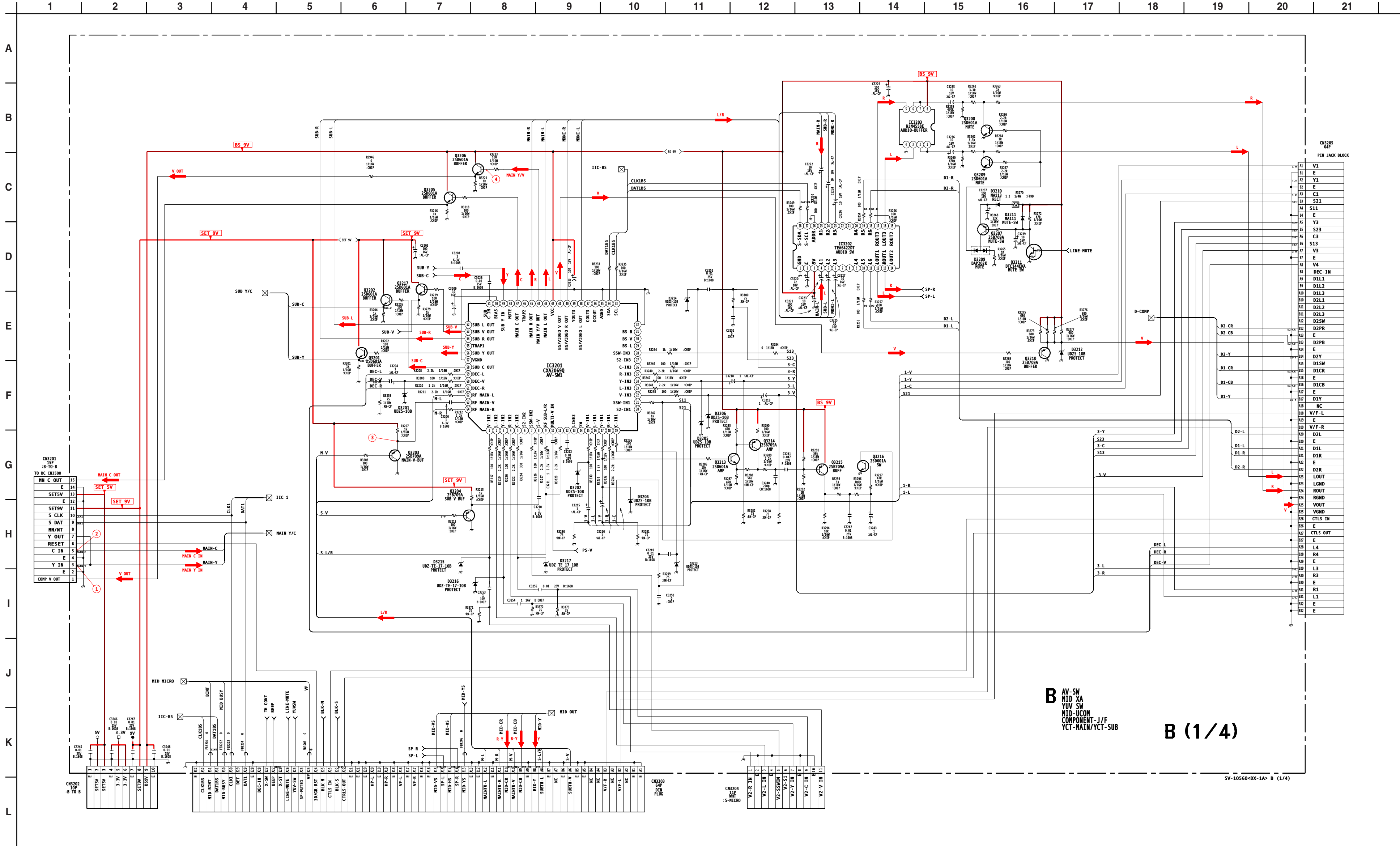
DIODE		
	Component	Conductor
D9101	B-4	
D9102	B-6	
D9103		C-4
D9104		C-3
D9105		C-3
D9106		C-3
D9107	C-4	
TRANSISTOR		
	Component	Conductor
Q9101	B-4	
Q9102	B-6	
Q9103		C-4
Q9104		B-3
Q9105		B-2
Q9106		C-3
Q9107		B-3
Q9108		C-3



W BOARD TRANSISTOR VOLTAGE LIST

All voltages in V.

B Board Schematic Diagram (1 of 4)



B BOARD IC VOLTAGE LIST

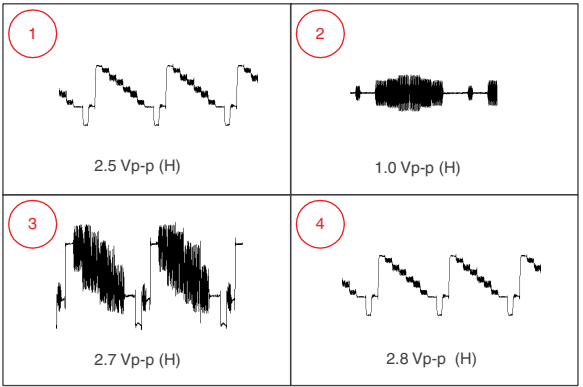
IC3201	pin	volt	26	4.4	53	3.8	14	4.4
1	3.9	28	4.9	55	NC	15	4.4	
2	4.4	29	NC	56	3.4	17	4.4	
3	3.9	30	NC	57	GND	18	4.4	
4	4.4	31	NC	58	4.3	19	4.4	
5	4.4	32	GND	59	4.4	20	NC	
6	0.1	33	4.4	60	3.9	21	NC	
7	4.9	34	4.6	61	4.4	22	NC	
8	4.0	35	0.0	62	4.4	23	4.4	
9	4.5	36	NC	63	4.8	24	4.4	
10	4.4	37	NC	64	4.4	25	4.4	
11	4.5	38	4.5	IC3202	pin	volt	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	pin	volt
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	4.4	
24	3.9	51	4.4	12	4.4			
25	4.4	52	4.5	13	4.4			

B BOARD TRANSISTOR VOLTAGE LIST

	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	9.0	3.8
Q3206	4.9	9.0	4.3
Q3207	8.9	-1.0	8.9
Q3208	-0.3	0	GND
Q3209	-0.3	0	GND
Q3210	2.7	GND	3.1
Q3211	0.4	8.9	GND
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.

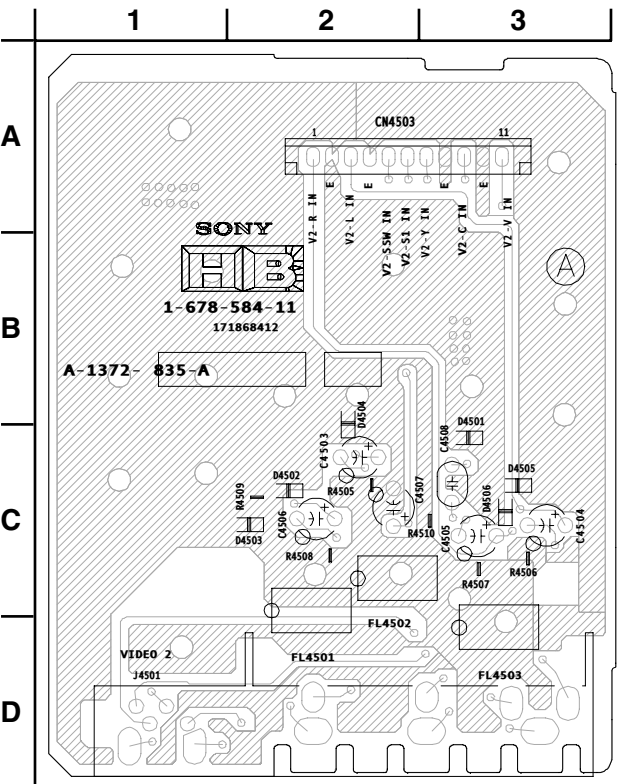
B BOARD (1/4) WAVEFORMS



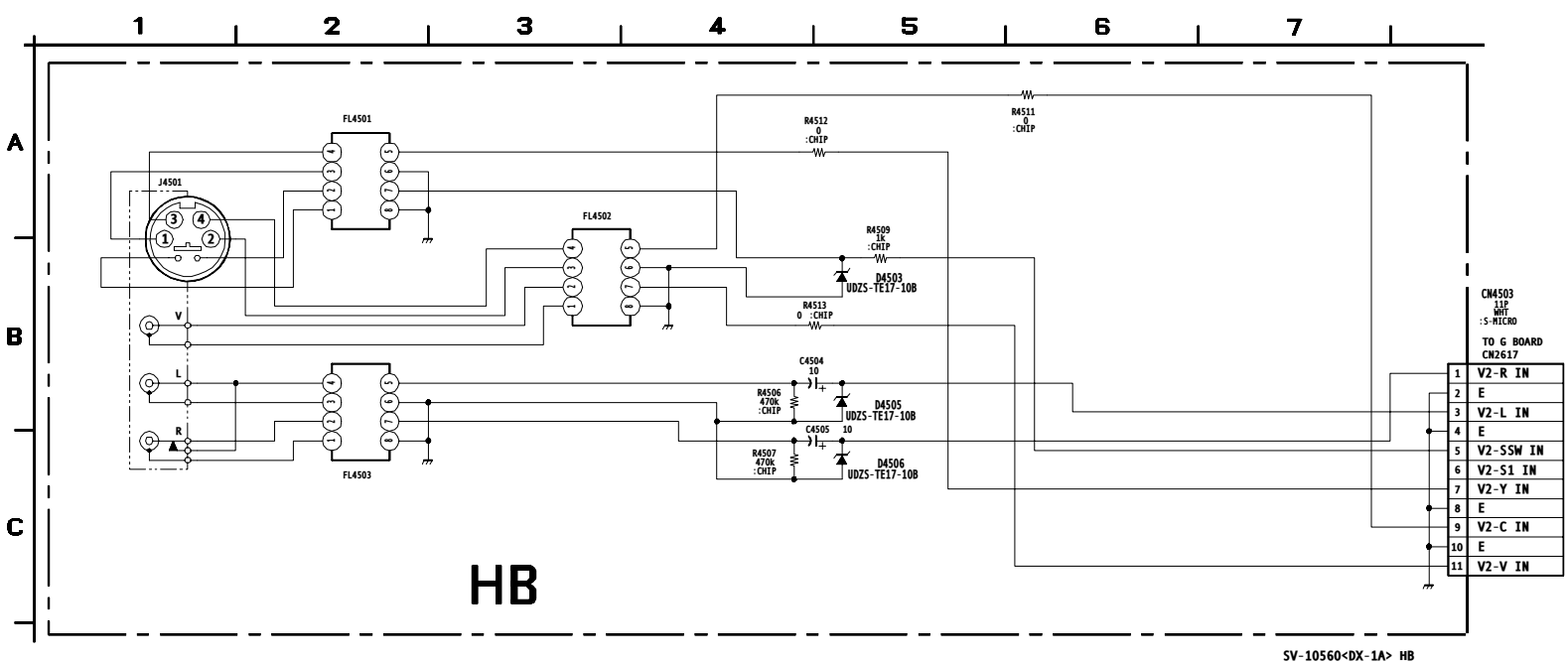
HB BOARD LOCATOR LIST

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

HB [KEY INPUT, LED, RMC]



HB Board Schematic Diagram

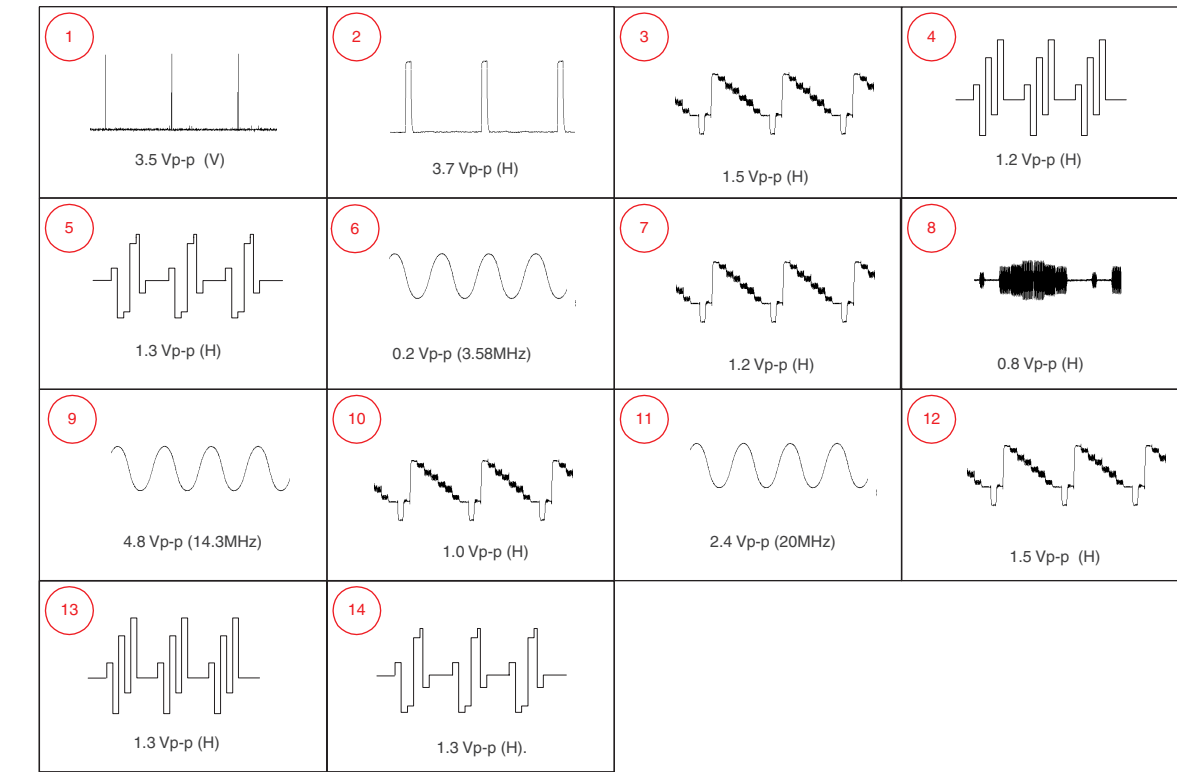




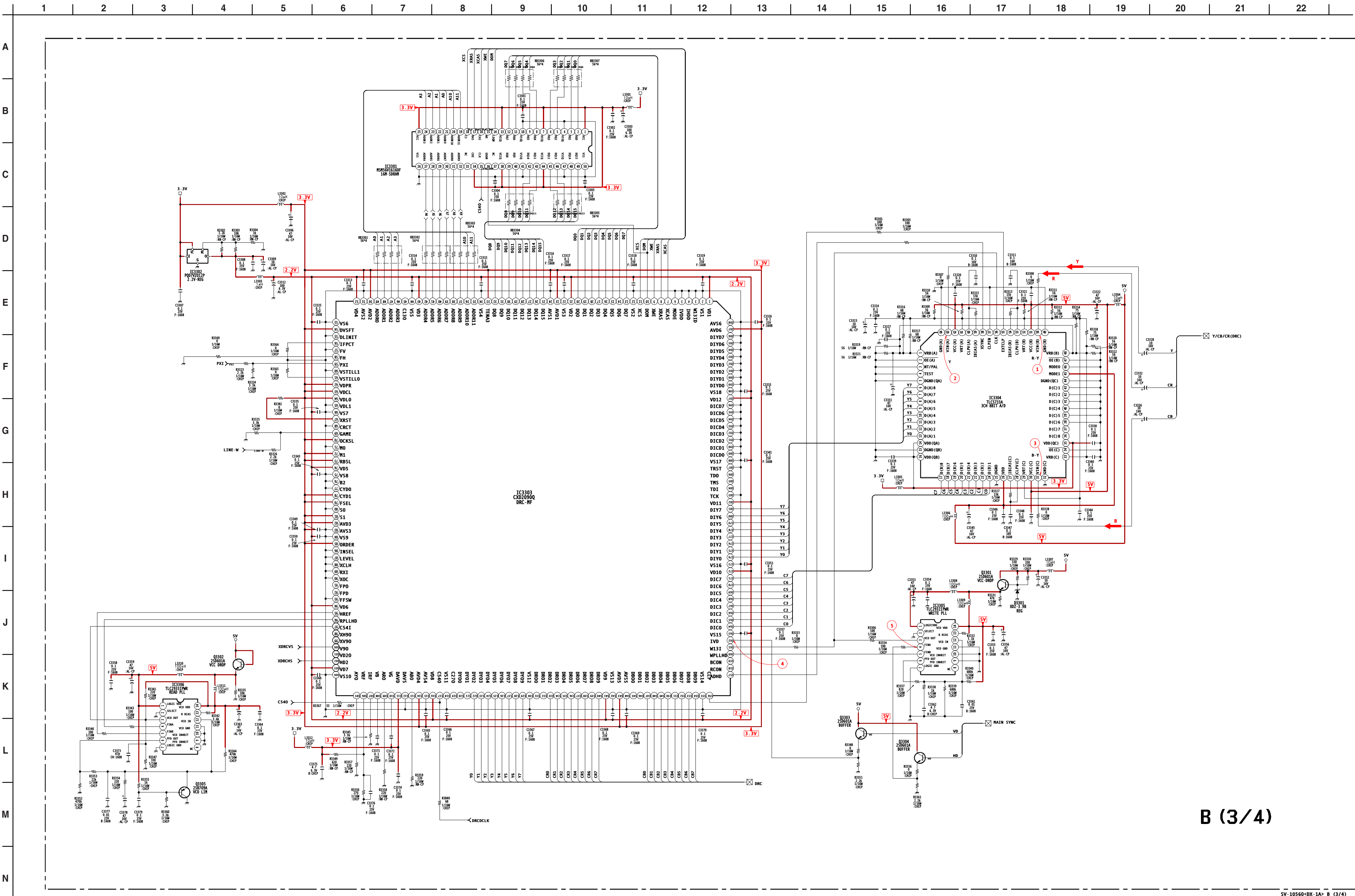
IC3001				IC3003				IC3000				IC3089				IC3090				IC3091				IC3092				IC3093						
pin	volt	34	3.1	pin	volt	pin	volt	pin	volt	15	0.5	pin	volt	24	NC	57	NC	91	NC	16	NC	pin	volt	32	0	pin	volt	32	0	pin	volt			
1	3.2	35	3.1	1	1.0	1	0.6	17	2.0	1	GND	25	GND	59	GND	59	NC	93	GND	18	2.8	1	NC	34	0	1	NC	34	0	1	GND			
2	3.2	36	3.2	2	0	2	0.5	18	3.1	2	GND	26	GND	60	NC	94	NC	19	NC	19	NC	2	NC	35	NC	2	NC	35	NC	2	4.9			
3	3.2	37	3.2	3	4.8	3	0.5	19	NC	3	0	27	NC	61	NC	95	2.9	20	0.5	3	NC	36	0	3	NC	36	0	3	GND	3	GND			
4	1.2	38	3.3	4	4.8	4	0.5	20	0.5	4	GND	28	NC	62	NC	96	0	21	0	4	NC	37	NC	4	NC	37	NC	4	NC	4	1.4			
5	1.0	39	3.8	5	NC	5	NC	21	2.8	5	4.6	29	NC	63	97	0	22	1.2	5	5	5	5	5	5	5	5	5	5	5	5	4.9			
6	GND	40	4.8	6	4.8	6	GND	22	1.8	6	4.8	30	NC	64	NC	98	4.3	23	0	6	NC	38	0	6	NC	38	0	6	NC	39	2.4	6	1.6	
7	NC	41	3.1	7	0.5	7	GND	23	2.1	7	4.9	31	NC	65	2.6	99	2.9	24	1.9	7	0.2	40	4.9	7	0.2	40	4.9	7	0.2	40	4.9	7	1.9	
8	NC	42	3.1	8	0	8	GND	24	2.0	8	4.9	32	0	66	NC	100	4.3	25	3.4	8	0.1	41	4.9	8	0.1	41	4.9	8	0.1	41	4.9	8	GND	
9	NC	43	3.1	9	1.9	9	1.9	4.9	25	3.4	9	1.9	33	0	67	NC	101	4.3	26	3.4	9	4.9	42	GND	9	4.9	42	GND	9	4.9	42	GND	9	4.6
10	1.0	44	3.3	10	2.6	10	4.9	26	3.4	pin	volt	34	NC	68	NC	pin	volt	27	3.4	10	GND	43	GND	10	GND	43	GND	10	GND	43	GND	10	4.6	
11	0.9	45	3.2	11	0.9	11	0	27	3.4	1	0	35	NC	69	NC	1	NC	28	NC	11	2.4	44	NC	11	2.4	44	NC	11	2.4	44	NC	11	4.9	
12	4.8	46	3.2	12	2.0	12	0.3	28	0	2	0	36	NC	70	NC	2	GND	29	NC	12	2.1	45	NC	12	2.1	45	NC	12	2.1	45	NC	12	2.8	
13	4.7	47	3.2	13	GND	13	GND	29	0.6	28	0	37	NC	71	NC	3	NC	30	NC	13	GND	46	NC	13	GND	46	NC	13	GND	46	NC	13	5.4	
14	4.0	48	GND	14	0	14	0.3	30	NC	4	NC	38	NC	72	NC	4	4.9	31	NC	14	GND	47	NC	14	GND	47	NC	14	GND	47	NC	14	GND	
15	2.7	49	3.2	15	GND	15	GND	31	NC	5	NC	39	NC	73	GND	5	4.9	32	4.8	15	GND	48	4.6	15	GND	48	4.6	15	GND	48	4.6	15	NC	
16	2.3	pin	volt	16	GND	16	4.9	32	4.8	6	NC	40	NC	74	5.0	6	NC	33	NC	16	4.9	49	NC	16	4.9	49	NC	16	4.9	49	NC	16	NC	
17	1.0	1	2.4	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	50	4.6	17	GND	50	4.6	17	All voltages are in V	
18	2.8	2	0	18	0	18	0	pin	volt	34	3.1	8	NC	42	0	76	NC	1	1.0	35	NC	18	GND	51	NC	18	GND	51	NC	18	GND	51	NC	
19	0	3	2.7	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	52	NC	19	GND	52	NC			
20	2.7	4	2.8	20	NC	2	0.2	36	2.6	10	0	44	4.4	78	NC	3	4.6	37	NC	20	1.6	53	NC	20	1.7	53	NC	20	1.7	53	NC	20	1.7	
21	5	0	21	4.9	4.9	2	0.3	37	2.4	11	NC	45	5.0	79	NC	4	4.6	38	2.4	21	5.4	54	NC	21	5.4	54	NC	21	5.4	54	NC	21	5.4	
22	0.3	6	GND	22	0	4	4.6	38	3.1	12	NC	46	GND	80	NC	5	GND	39	NC	22	1.5	55	NC	22	2.5	55	NC	22	2.5	55	NC	22	5.5	
23	0	7	GND	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	56	NC	23	4.9	56	NC	23	5.6	
24	GND	8	GND	24	GND	6	NC	40	1.7	14	NC	48	NC	82	NC	7	4.9	41	1.8	24	0	57	NC	24	NC	57	NC	24	NC	57	GND	24	GND	
25	2.9	9	4.9	25	2.4	7	4.9	41	1.7	15	NC	49	NC	83	GND	8	2.6	42	2.4	25	NC	58	NC	25	NC	58	NC	25	NC	58	GND	25	GND	
26	2.8	10	4.9	26	4.8	8	2.8	42	2.4	16	NC	50	NC	84	GND	9	NC	43	0	26	59	NC	26	NC	59	NC	26	NC	59	GND	26	GND		
27	2.2	11	4.9	27	2.2	9	NC	43	0	17	NC	51	NC	85	GND	10	NC	44	2.4	27	NC	60	NC	27	NC	60	NC	27	NC	60	GND	27	GND	
28	4.8	12	2.8	28	2.0	10	NC	44	2.4	18	NC	52	NC	86	GND	11	41	45	3.4	28	51	NC	28	NC	51	NC	28	NC	51	NC	28	GND		
29	GND	13	2.6	29	4.8	2	2.3	45	3.1	19	0	53	5.0	87	NC	12	NC	46	2.7	29	NC	62	NC	29	NC	62	NC	29	NC	62	NC	29	GND	
30	4.6	14	2.7	30	GND	12	NC	46	2.8	20	NC	54	NC	88	NC	13	GND	47	4.8	30	NC	63	NC	30	NC	63	NC	30	NC	63	NC	30	GND	
31	4.6	15	2.5	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	64	NC	31	0	64	NC	31	GND	
32	GND	16	4.9	32	1.0	14	NC	48	3.1	22	NC	56	NC	90	GND	15	0.5																	

	B	C	E
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.

[illegible]

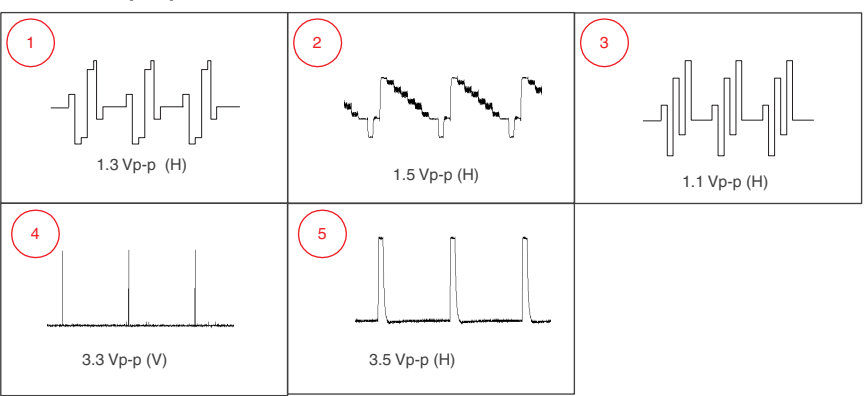
B Board Schematic Diagram (3 of 4)



B BOARD IC VOLTAGE LIST

IC3301		IC3302		IC3303		IC3304		IC3305		IC3306	
pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt
1	3.3	1	3.3	1	3.3	1	3.3	1	3.3	1	3.3
2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5
3	1.6	3	1.6	3	1.6	3	1.6	3	1.6	3	1.6
4	GND	4	GND	4	GND	4	GND	4	GND	4	GND
5	1.5	5	1.5	5	1.5	5	1.5	5	1.5	5	1.5
6	1.5	6	1.5	6	1.5	6	1.5	6	1.5	6	1.5
7	3.3	7	3.3	7	3.3	7	3.3	7	3.3	7	3.3
8	1.9	8	1.9	8	1.9	8	1.9	8	1.9	8	1.9
9	GND	9	GND	9	GND	9	GND	9	GND	9	GND
10	1.8	10	1.8	10	1.8	10	1.8	10	1.8	10	1.8
11	1.2	11	1.2	11	1.2	11	1.2	11	1.2	11	1.2
12	3.3	12	3.3	12	3.3	12	3.3	12	3.3	12	3.3
13	0.5	13	0.5	13	0.5	13	0.5	13	0.5	13	0.5
14	3.2	14	3.2	14	3.2	14	3.2	14	3.2	14	3.2
15	3.2	15	3.2	15	3.2	15	3.2	15	3.2	15	3.2
16	3.2	16	3.2	16	3.2	16	3.2	16	3.2	16	3.2
17	3.2	17	3.2	17	3.2	17	3.2	17	3.2	17	3.2
18	3.2	18	3.2	18	3.2	18	3.2	18	3.2	18	3.2
19	0	19	0	19	0	19	0	19	0	19	0
20	0	20	0	20	0	20	0	20	0	20	0
21	0	21	0	21	0	21	0	21	0	21	0
22	0	22	0	22	0	22	0	22	0	22	0
23	0	23	0	23	0	23	0	23	0	23	0
24	0	24	0	24	0	24	0	24	0	24	0
25	3.3	25	3.3	25	3.3	25	3.3	25	3.3	25	3.3
26	GND	26	GND	26	GND	26	GND	26	GND	26	GND
27	0	27	0	27	0	27	0	27	0	27	0
28	0	28	0	28	0	28	0	28	0	28	0
29	0	29	0	29	0	29	0	29	0	29	0
30	0	30	0	30	0	30	0	30	0	30	0
31	0	31	0	31	0	31	0	31	0	31	0
32	0	32	0	32	0	32	0	32	0	32	0
33	NC	33	NC	33	NC	33	NC	33	NC	33	NC
34	3.3	34	3.3	34	3.3	34	3.3	34	3.3	34	3.3
35	1.7	35	1.7	35	1.7	35	1.7	35	1.7	35	1.7
36	0.5	36	0.5	36	0.5	36	0.5	36	0.5	36	0.5
37	NC	37	NC	37	NC	37	NC	37	NC	37	NC
38	3.3	38	3.3	38	3.3	38	3.3	38	3.3	38	3.3
39	1.6	39	1.6	39	1.6	39	1.6	39	1.6	39	1.6
40	1.6	40	1.6	40	1.6	40	1.6	40	1.6	40	1.6
41	GND	41	GND	41	GND	41	GND	41	GND	41	GND
42	1.5	42	1.5	42	1.5	42	1.5	42	1.5	42	1.5
43	1.5	43	1.5	43	1.5	43	1.5	43	1.5	43	1.5
44	3.3	44	3.3	44	3.3	44	3.3	44	3.3	44	3.3
45	1.8	45	1.8	45	1.8	45	1.8	45	1.8	45	1.8
46	2.0	46	2.0	46	2.0	46	2.0	46	2.0	46	2.0
47	GND	47	GND	47	GND	47	GND	47	GND	47	GND
48	1.7	48	1.7	48	1.7	48	1.7	48	1.7	48	1.7
49	1.2	49	1.2	49	1.2	49	1.2	49	1.2	49	1.2
50	GND	50	GND	50	GND	50	GND	50	GND	50	GND

B BOARD (3/4) WAVEFORMS



B BOARD TRANSISTOR VOLTAGE LIST

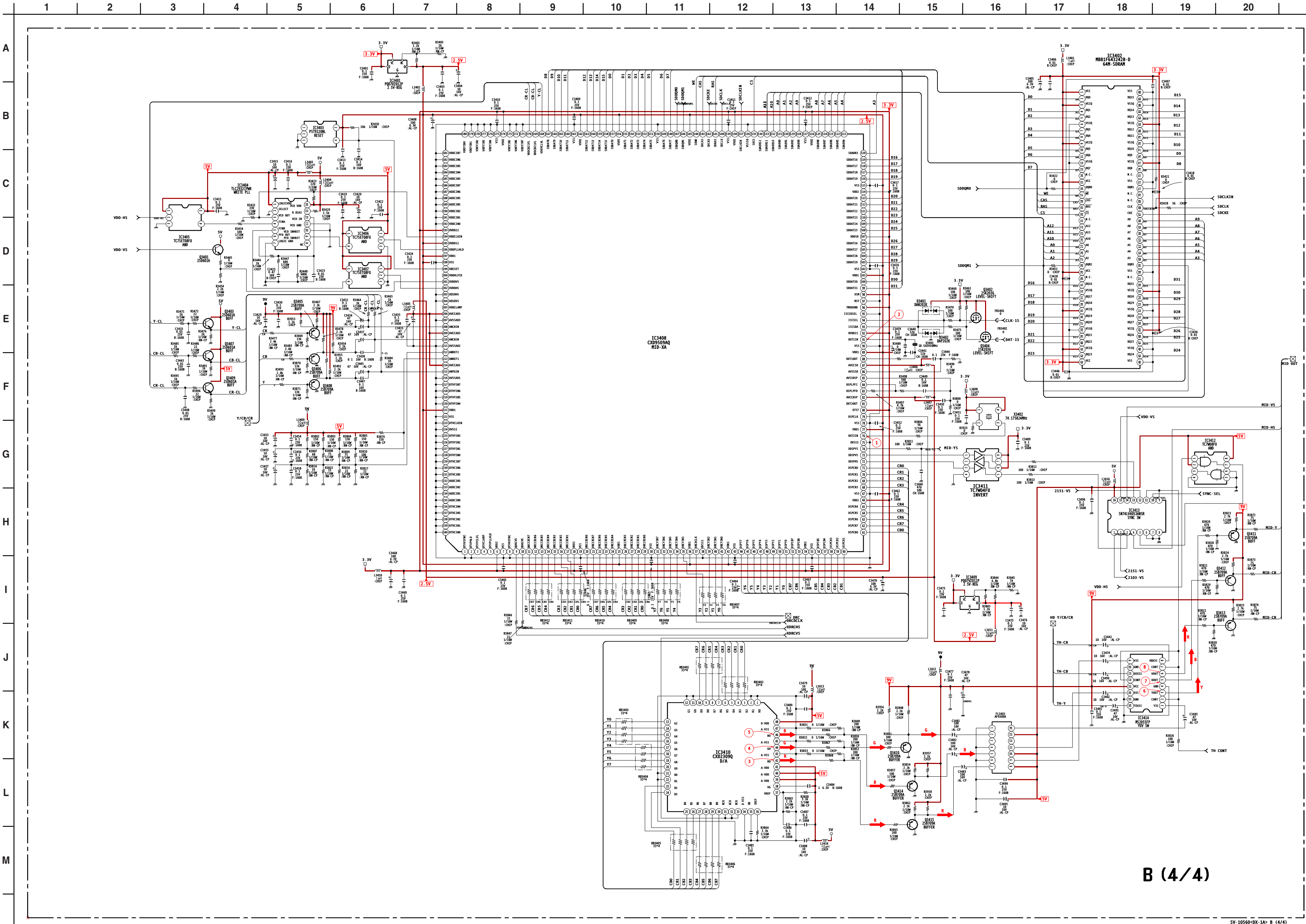
	B	C	E
Q3301	3.9	4.9	3.4
Q3302	4.9	4.9	3.4
Q3303	0.5	4.9	0.1
Q3304	0.5	4.9	0.2
Q3305	3.2	GND	2.3

All voltages in V.

B (3/4)

SV-10560-0X-1A- B (3/4)

B Board Schematic Diagram (4 of 4)

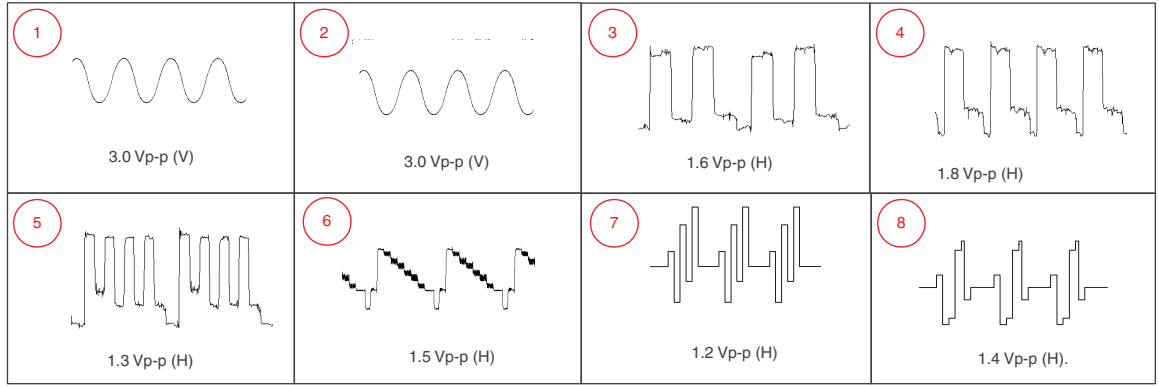


B BOARD IC VOLTAGE LIST

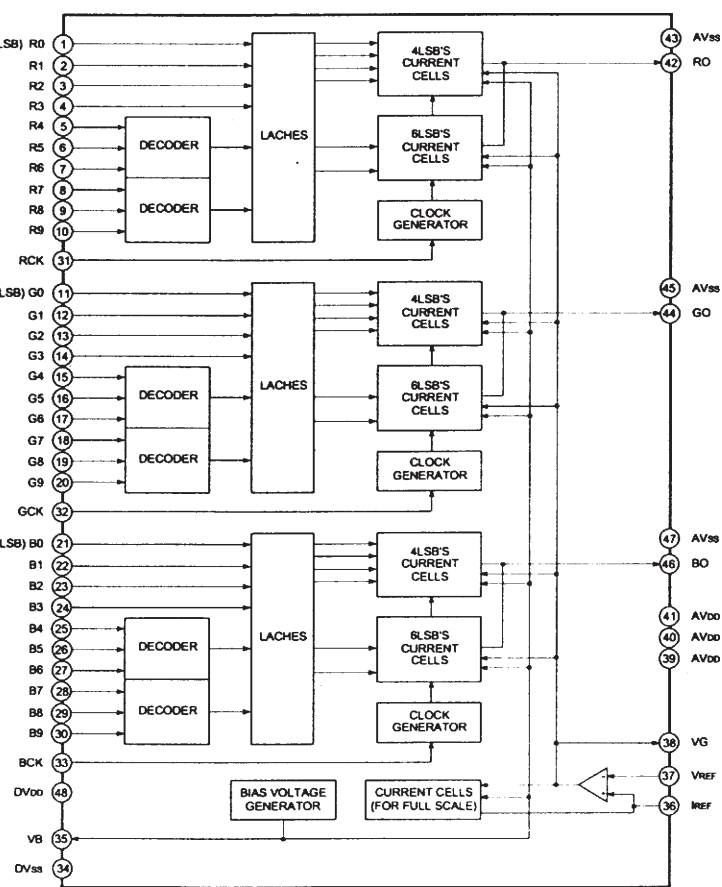
IC3401				IC3404				IC3405				IC3410				IC3413						
pin	volt			pin	volt			pin	volt			pin	volt			pin	volt					
I	3.3	45	1.7	1	4.8	15	0	66	3.3	117	1.3	168	0.9	219	GND	21	GND	1				
G	GND	46	GND	2	GND	16	2.3	67	GND	118	1.6	169	1.1	220	GND	22	GND	2	GND			
O	1.2	47	1.7	3	2.3	17	1.6	68	0.8	119	1.7	170	1.1	221	1.2	23	1.4	3	0.1			
VC	3.3	48	1.4	4	0.3	18	3.3	69	0.6	120	0	171	GND	222	GND	24	1.5	4	0.1			
NC	49	3.3	5	2.4	19	GND	70	0.9	121	2.4	172	GND	223	GND	25	1.5	5	0.3				
IC3402				IC3405				IC3406				IC3411				IC3414						
pin	volt			pin	volt			pin	volt			pin	volt			pin	volt					
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	NC	13	3.6	27	2.2	78	GND	129	0.1	180	GND	231	GND	33	1.6	13	0			
7	2.4	58	GND	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	2.9	29	0.9	80	3.3	131	0.1	182	GND	233	GND	35	1.0	15	GND			
9	3.3	60	0	16	pin	volt		30	GND	81	NC	132	0.1	183	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	GND			
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	18	pin			
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	2.9	pin	volt			37	1.8	140	1.5	190	GND	241	GND	43	0	5	3.1			
17	3.1	68	1.8	1	4.8	38	GND	89	2.5	141	1.5	191	GND	242	pin	44	0.5	6	3.1			
18	2.9	69	NC	2	0	39	1.4	90	GND	141	0	192	GND	243	I	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	O	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	IC3411	11	4.6					
23	1.7	74	1.8	pin	volt			44	0.8	95	GND	146	0	197	2.4	IC3410	1	pin	1	3.2	13	8.9
24	0.1	75	3.3	1	4.8	45	1.0	96	3.3	147	0	198	GND	244	pin	1	3.2	13	8.9			
25	0.1	76	1.3	2	1.0	46	0.7	97	GND	148	0.9	199	1.0	1	Volt	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	3	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	1.0	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							

All voltages are in V.

B BOARD (4/4) WAVEFORMS



B BOARD: IC2309Q

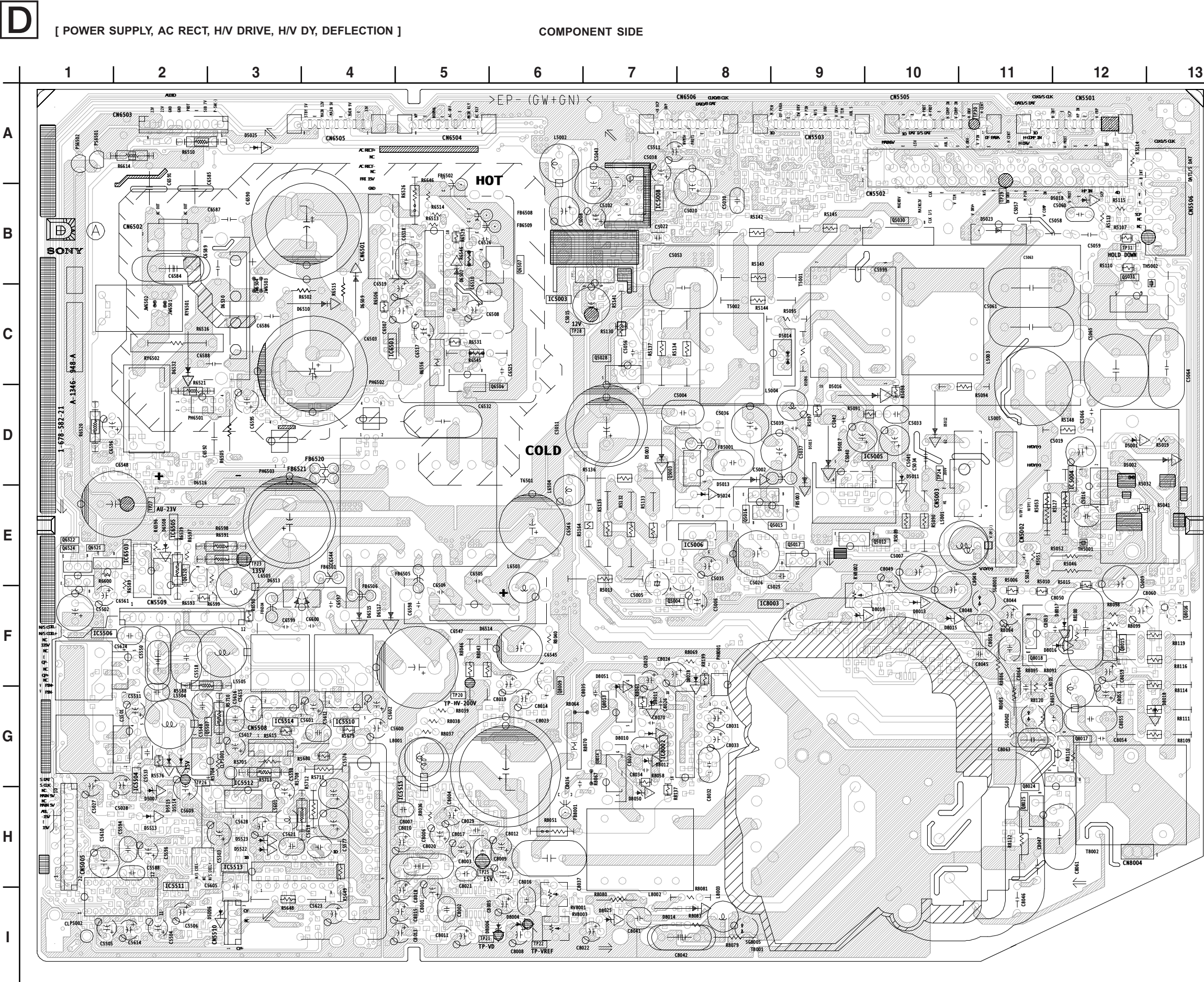


B BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
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

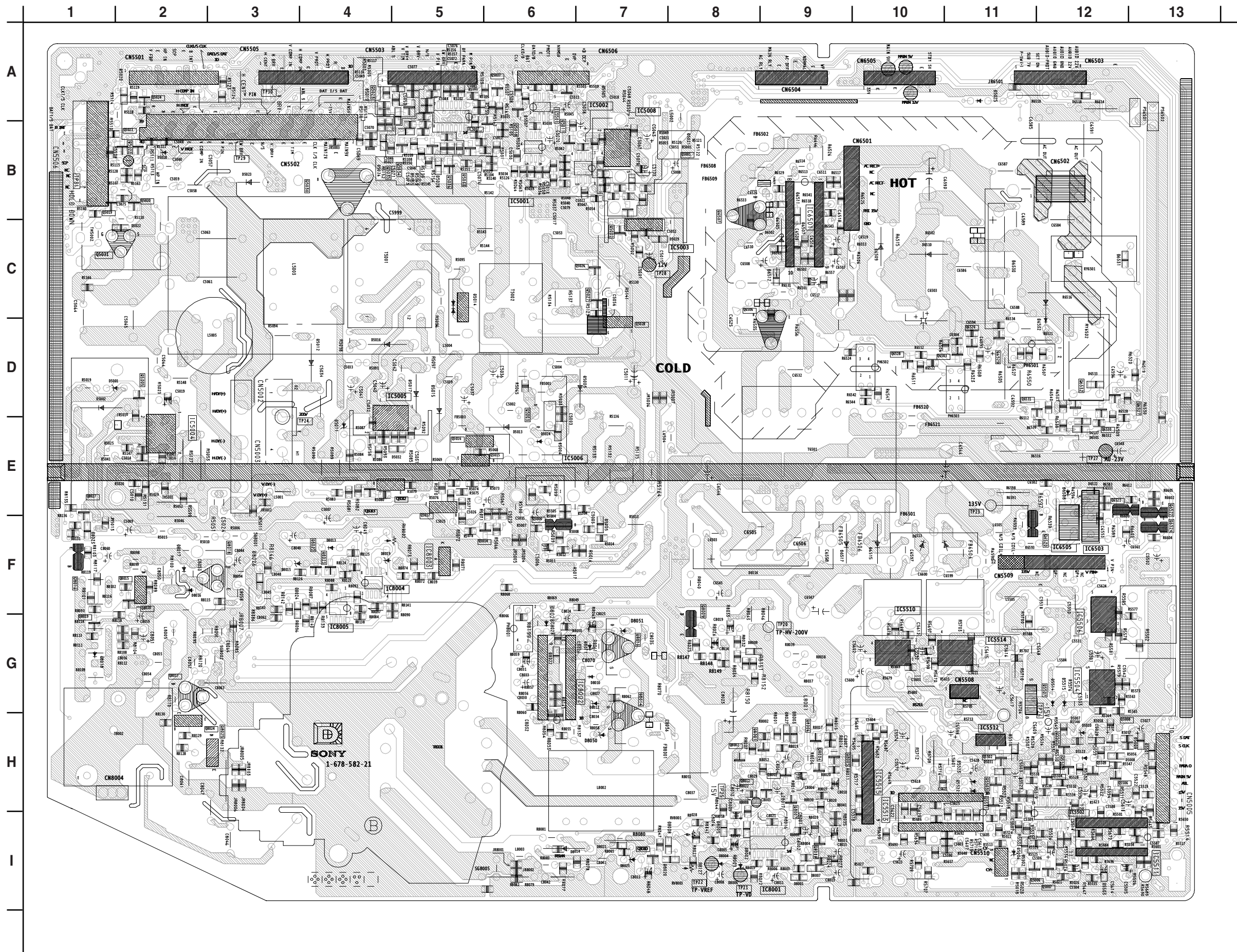
All voltages in V.

DIODE			TRANSISTOR		
	Component	Conductor		Component	Conductor
D3001		B-4	Q3001		G-9
D3002		B-4	Q3002	F-2	
D3003		B-4	Q3003	F-2	
D3004	B-5		Q3005		E-5
D3005	B-5		Q3006		E-5
D3006		B-4	Q3007		D-5
D3007		B-4	Q3008		B-3
D3089		F-3	Q3009		F-6
D3090		F-3	Q3010		F-5
D3201		E-5	Q3011		F-5
D3202	E-6		Q3014	E-5	
D3204	E-6		Q3015	F-3	
D3205	D-7		Q3016	F-3	
D3206	E-7		Q3017	F-3	
D3209	C-5		Q3018		F-7
D3210	C-6		Q3021		F-8
D3211	C-6		Q3022		F-8
D3212		D-3	Q3023		F-8
D3213		E-3	Q3025		C-5
D3214	D-6		Q3026		C-6
D3301		C-6	Q3027		C-5
D3401		D-8	Q3035		B-3
D3402		D-8	Q3036		A-3
D3403		F-2	Q3037		A-3
IC			Q3038		C-3
	Component	Conductor	Q3039		B-3
IC3001	E-3		Q3040		B-3
IC3002		C-4	Q3049	B-6	
IC3003		E-2	Q3051	B-6	
IC3004	C-5		Q3053	A-6	
IC3048	A-5		Q3054	B-6	
IC3089		F-3	Q3056		B-4
IC3090	G-7		Q3058		A-4
IC3091		F-2	Q3089		E-2
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
			Q3304		C-6
			Q3305		C-8
			Q3401		D-6
			Q3402	E-1	
			Q3403		D-7
			Q3404	D-1	
			Q3405		E-6
			Q3406		D-6
			Q3407		D-7
			Q3408		D-6
			Q3409		E-6
			Q3410		B-5
			Q3411		A-6
			Q3412		A-6
			Q3413		B-6
			Q3414		B-5
			Q3415		B-6
			Q3603	E-5	
			Q3604	G-3	
			Q3605	G-4	
			Q3606	G-4	
			Q3609	F-6	
			Q3610	F-6	
			Q3611	F-7	
			Q3612	F-7	
			Q3613		F-3
			Q3617	G-4	
			Q3618	G-4	
			Q3619	G-4	
			Q3620	G-4	



D BOARD LOCATOR LIST

DIODE			Component		Conductor		Component		Conductor		Component		Conductor	
	Component	Conductor												
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		E-6	D5024	E-7			D6501		E-12		D8005		I-8	
D5005		F-7	D5025	A-3			D6502	C-5			D8006	J-6		
D5006	J-3		D5026		B-4		D6507		C-9		D8007		J-9	
D5007	H-2		D5027		B-5		D6508	E-2			D8009		G-8	
D5008		H-12	D5028		B-5		D6509	C-4			D8010		H-7	
D5009		H-12	D5029		C-8		D6510	C-3			D8013		F-4	
D5010		H-12	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		E-12		D8020		J-8	
D5016	D-9		D5506		J-12		D6530		C-11		D8021		J-7	
D5017	E-9		D5507		B-6		D6531		C-13		D8022		G-6	
D5018	B-12		D5513	I-2			D6532	D-2			D8025	J-7		
			D5514	H-2			D6533		D-12		D8026		G-6	
							D6537		E-12		D8027		H-9	



D BOARD (*) MODEL VARIANCE LIST

REF NO.	LOC	KV-32XBR400	KV-36XBR400 KV-36XBR400H	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	#

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	0.6	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

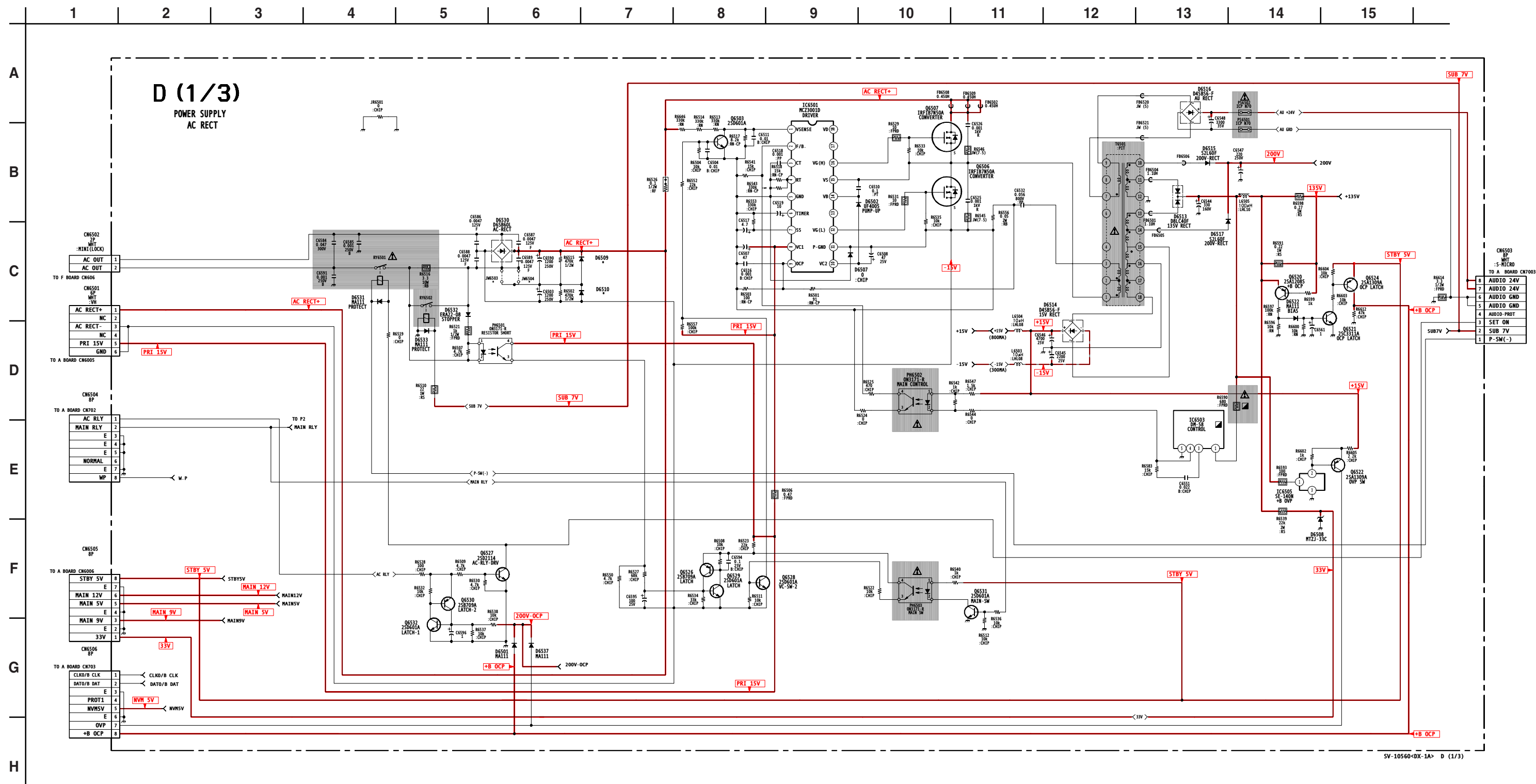
	D	G	S
Q6506	4.7	149.2	0
Q6507	154.4	303.3	150.0

All voltages in V.

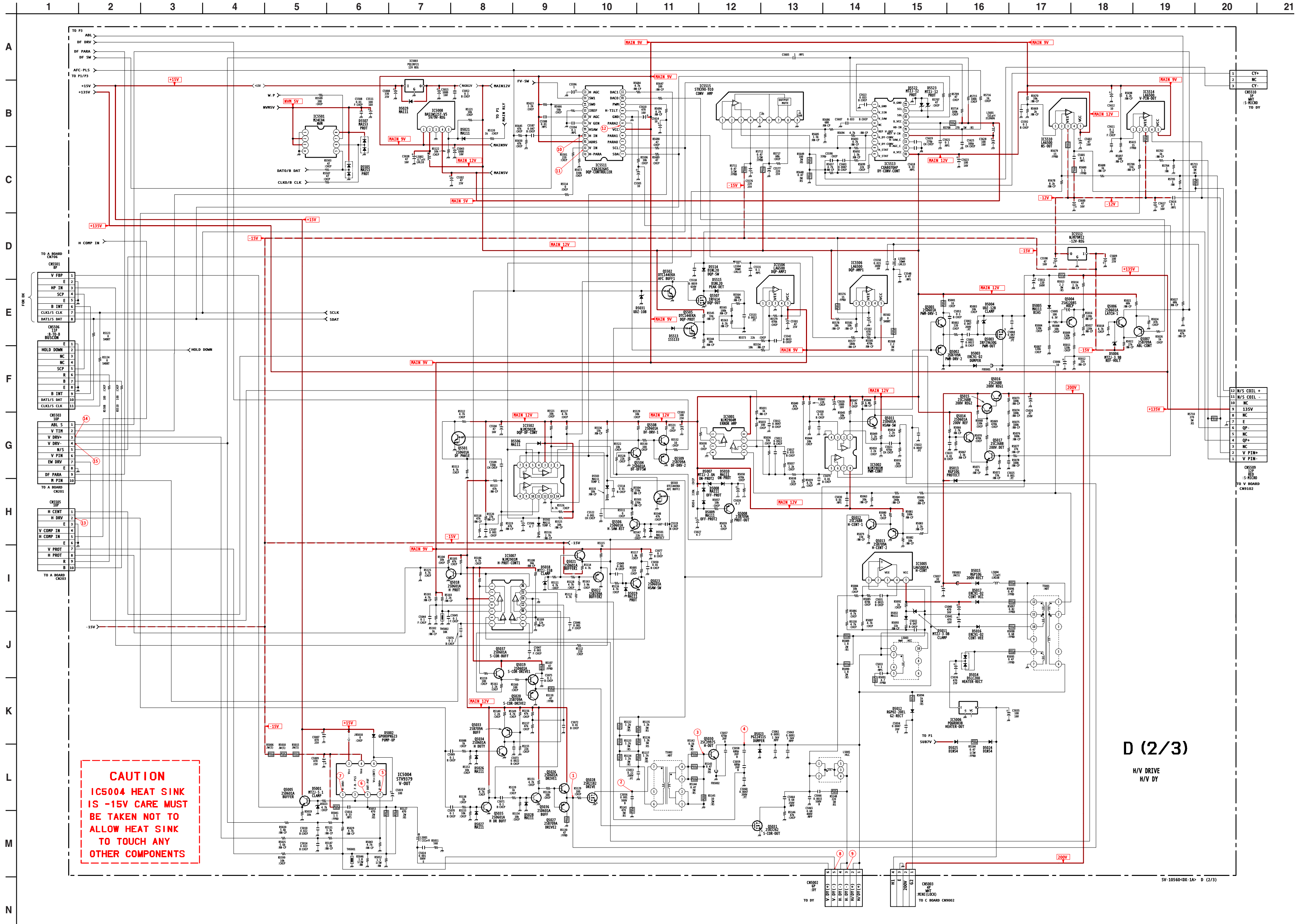
D BOARD LOCATOR LIST

IC			TRANSISTOR			Component		Conductor		Component		Conductor	
Component	Conductor		Component	Conductor									
IC5001		B-6	IC8004		G-4	Q5028		D-7		Q6526		D-11	
IC5002		C-7	Q5001		C-7	Q5030	B-10			Q6527		D-13	
IC5003		C-8	Q5002		C-7	Q5031	C-13			Q6528		D-10	
IC5004	E-12		Q5003	E-8		Q5033		B-5		Q6529		D-11	
IC5005	E-10		Q5004	F-8		Q5034		B-5		Q6530		E-12	
IC5006	F-8		Q5005		D-2	Q5035		B-5		Q6531		E-11	
IC5007		A-5	Q5006		J-12	Q5036		B-5		Q6532		E-12	
IC5008		A-7	Q5007		J-12	Q5037		B-5		Q8001		H-9	
IC5501		A-6	Q5008		H-13	Q5501		I-11		Q8002		I-8	
IC5502		I-12	Q5011		A-6	Q5502		I-11		Q8003		I-9	
IC5504	H-2		Q5012		F-4	Q5503		I-11		Q8004		I-9	
IC5506	G-1		Q5013		F-4	Q5504		I-12		Q8007		J-9	
IC5510	H-4		Q5014		F-5	Q5505		I-12		Q8008			
IC5511	I-2		Q5015		E-6	Q5506	H-2	I-13		Q8009	G-6		
IC5512	H-3		Q5016		E-5	Q5507		I-12		Q8010		J-7	
IC5513	I-3		Q5017		F-5	Q5508		I-12		Q8013	G-7		
IC5514	H-3		Q5018		B-6	Q5509		I-12		Q8014	H-7		
IC5515	H-5		Q5019		B-1	Q6503		D-11		Q8015	G-13		
IC6501	C-5		Q5020		B-2	Q6506		D-8		Q8016	G-12	G-1	
IC6503	E-2		Q5021		B-2	Q6507	C-6			Q8018			
IC6505	E-2		Q5022		B-2	Q6520		F-12		Q8019		G-1	
IC8001		J-9	Q5023		A-5	Q6521	F-1			Q8020		G-2	
IC8002	H-7		Q5026		C-7	Q6522	F-1			Q8022		F-4	
IC8003	F-9		Q5027		C-7	Q6524	F-1			Q8023		F-4	

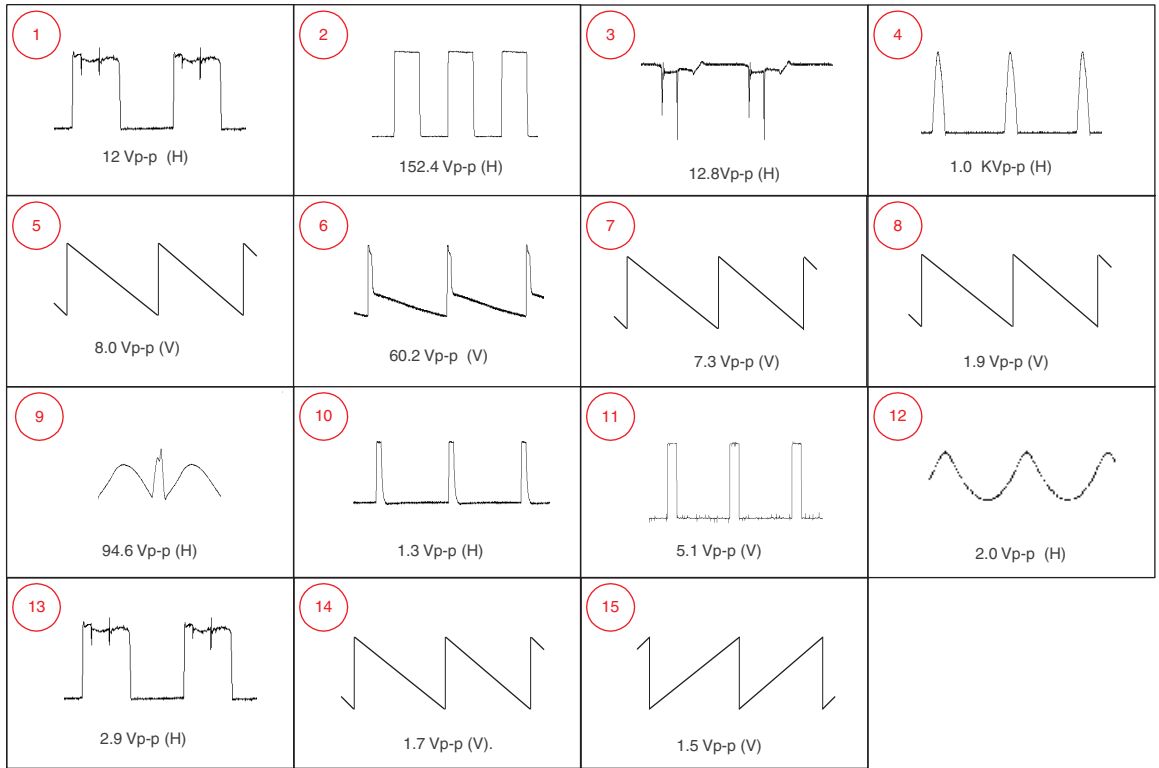
D Board Schematic Diagram (1 of 3)



D Board Schematic Diagram (2 of 3)



D BOARD WAVEFORMS (2 of 3)



D BOARD TRANSISTOR VOLTAGE LIST

	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

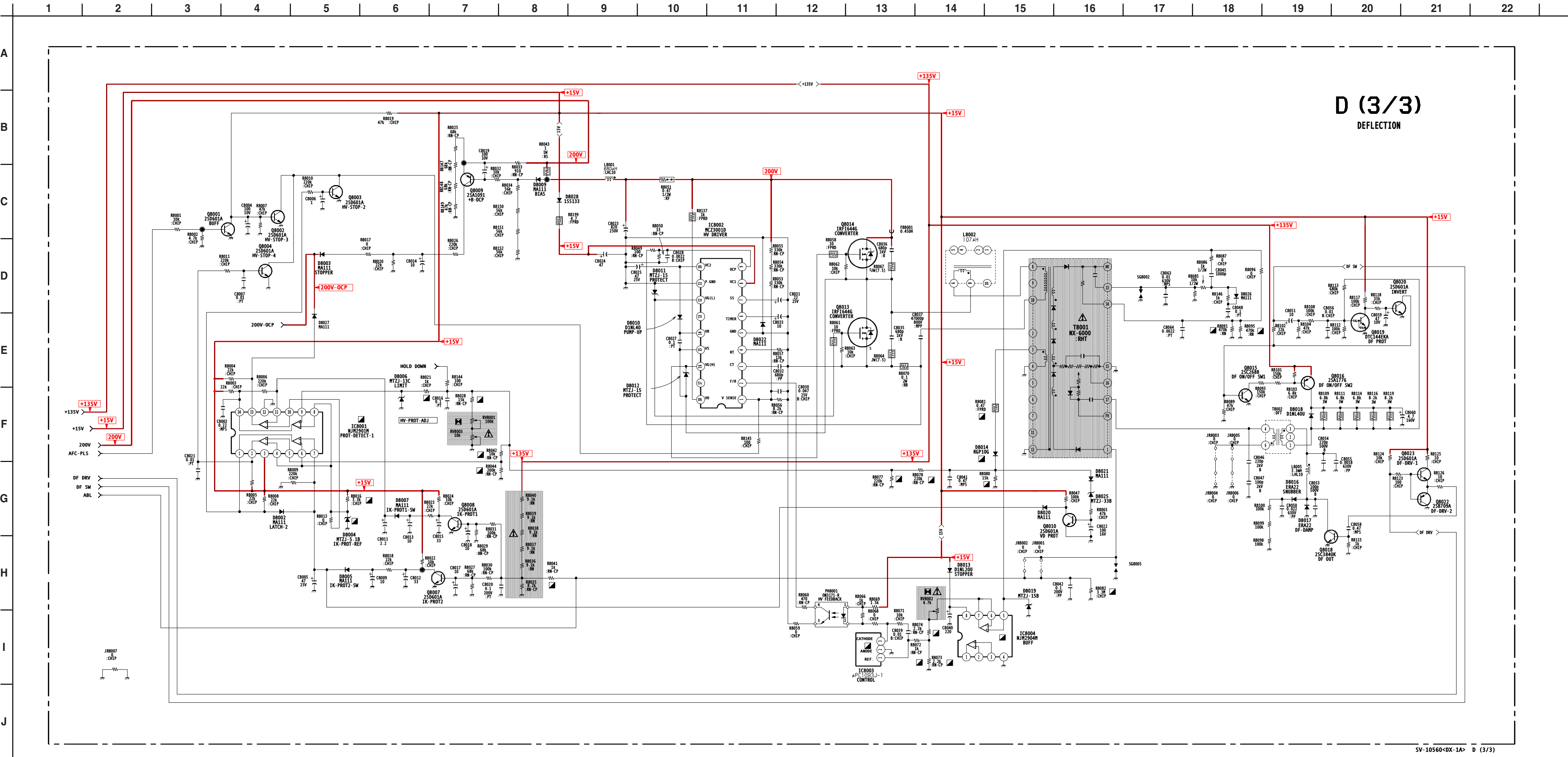
IC5001		IC5004		IC5007		IC5501		IC5504		IC5511		IC5512		IC5514	
pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt	pin	volt
1	11.0	1	1.2	1	3.1	1	GND	1	4.2	1	4.6	1	-15.8	1	0.3
2	11.0	2	15.6	2	0.6	2	5.0	2	4.2	2	4.6	G	GND	2	0.3
3	1.7	3	-12.6	3	12.1	3	5.0	3	GND	3	4.0	O	-12.0	3	-12.0
4	GND	4	-14.5	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	
7	5.9	7	1.2	7	2.8	7	5.0	pin	volt	7	GND	2	4.9	pin	volt
8	12.1	IC5005		8	0.0	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	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	All voltages are in V	
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			5	5.2	11	0.0			21	0.9	16	4.6		
G	GND					12	GND			22	3.4	17	4.6		
O	12.1					13	3.7					18	GND		
						14	0								
						15	3								

All voltages are in V

	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 Schematic Diagram (3 of 3)



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

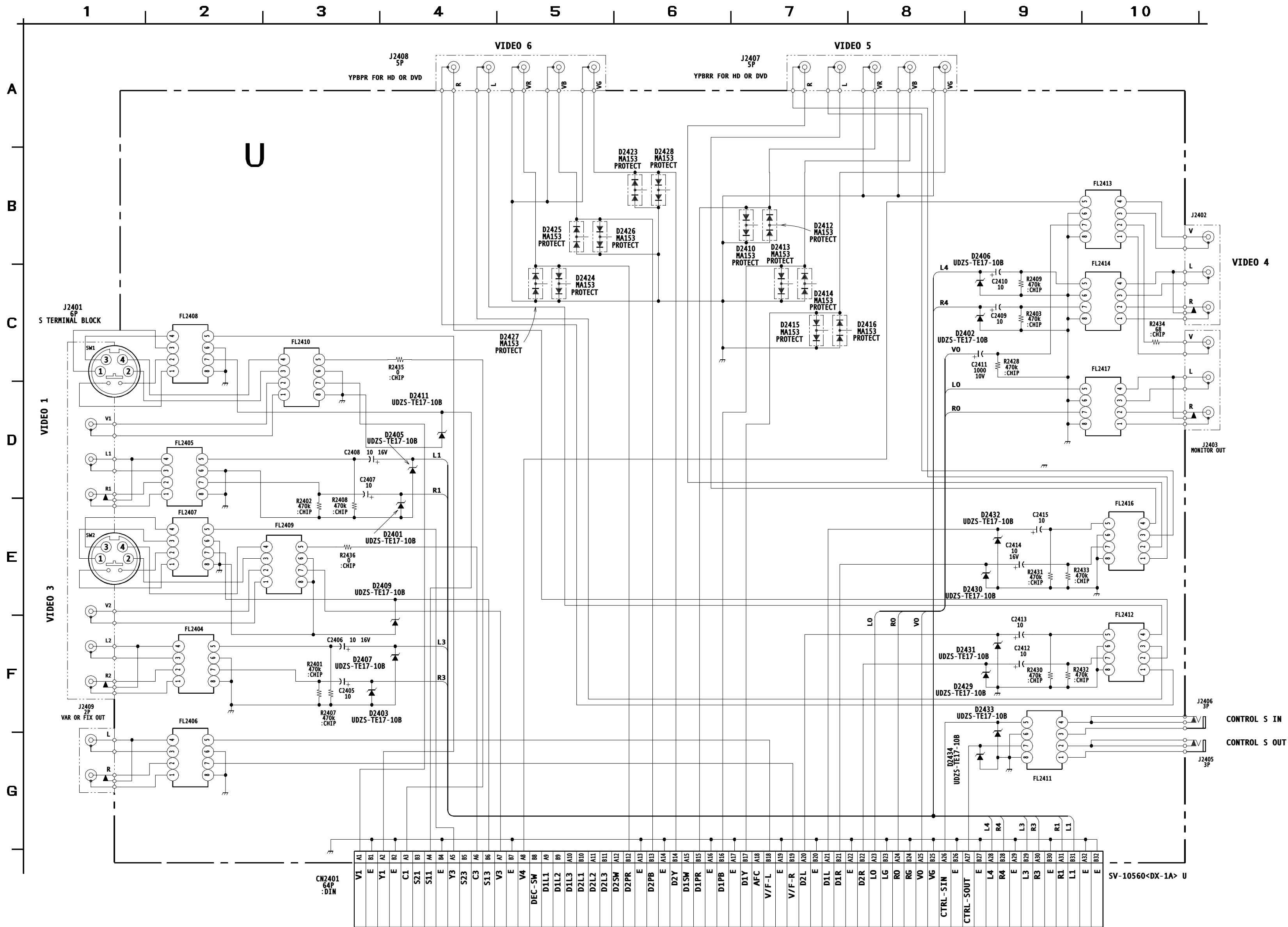
	D	G	S
Q8013	4.6	94.8	GND
Q8014	99.0	198.0	93.2

All voltages in V.

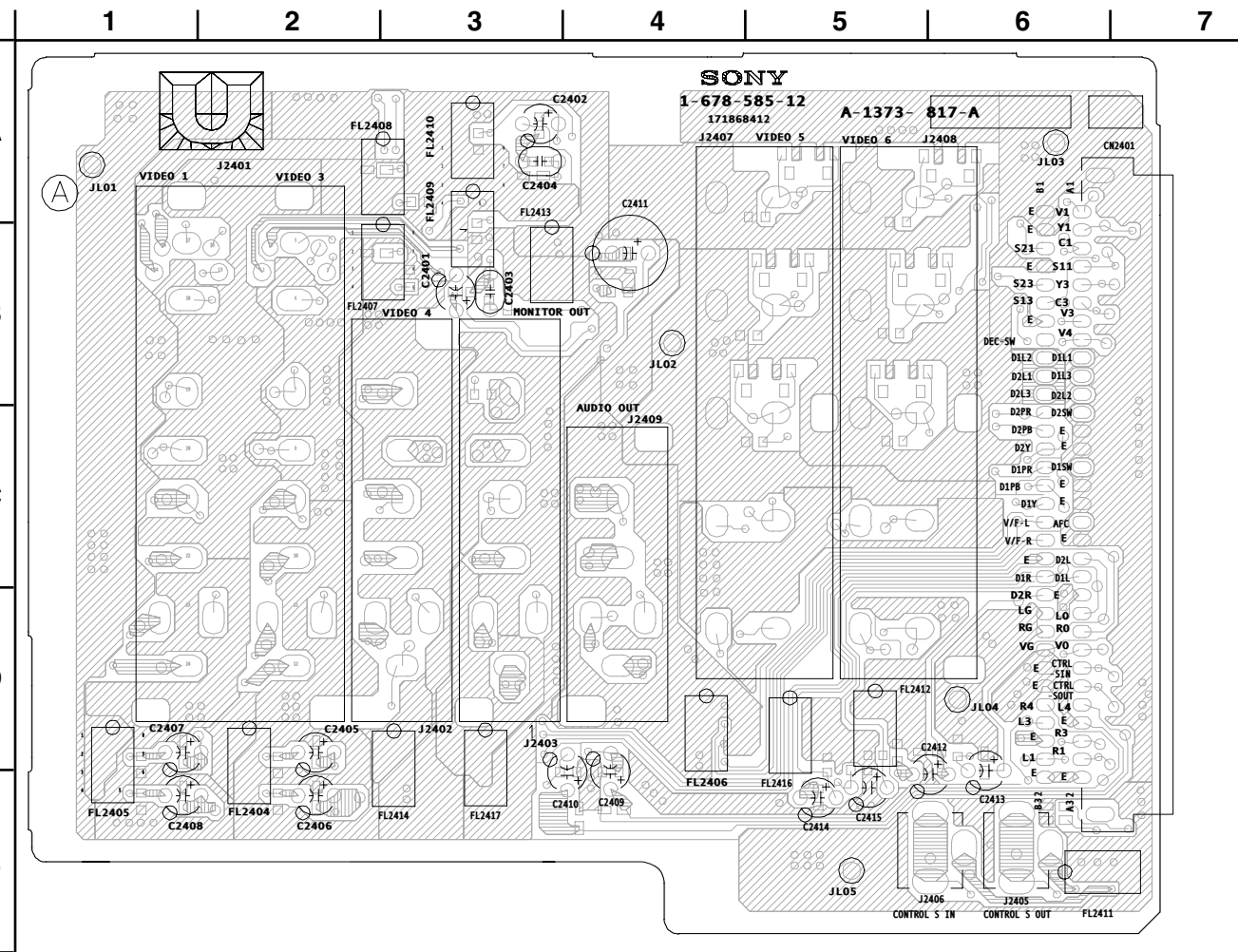
D BOARD IC VOLTAGE LIST

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		

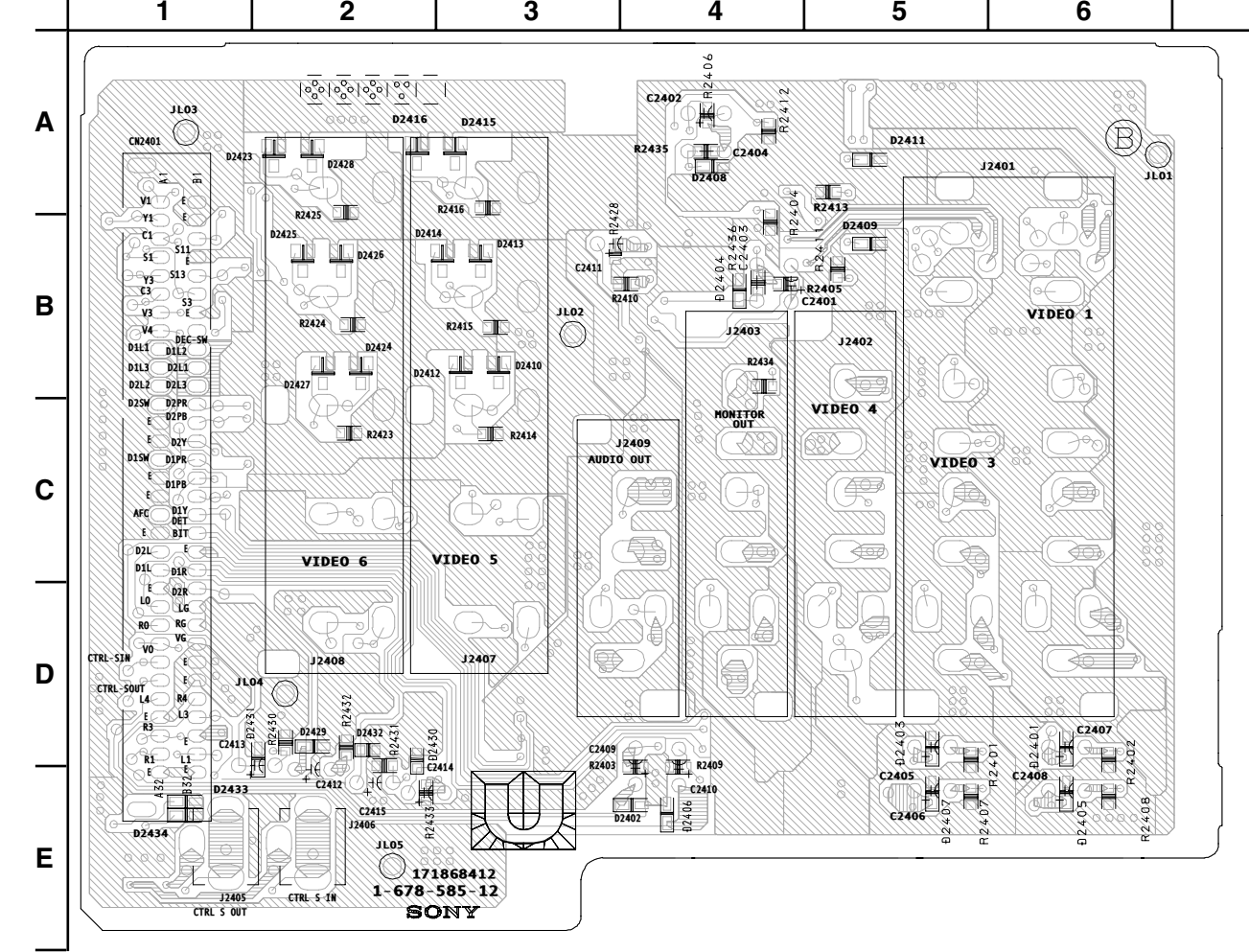
U Board Schematic Diagram



COMPONENT SIDE



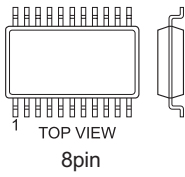
CONDUCTOR SIDE



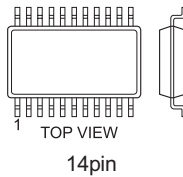
U BOARD LOCATOR LIST

DIODE	
D2401	D-6
D2402	E-4
D2403	D-5
D2405	D-6
D2406	D-4
D2407	D-5
D2409	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

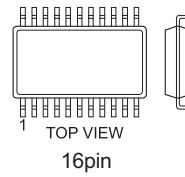
6-4. SEMICONDUCTORS



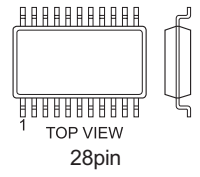
BR24C04F-WE2
BR24C08
NJM2901M-TE2
NJM2903M
NJM2904M
NJM4558E(TE2)
TC7WU04FU(TE12R)
TDA2822D



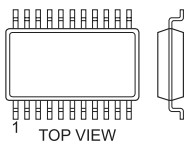
M52055FP
MC74HC4066F
TLC2932IPW
TLC2933IPWR-12



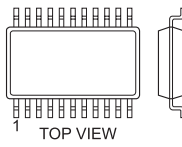
CXD2085M-T4
SN74LV4053ANSR



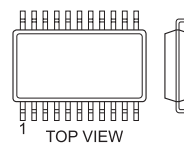
CXD2057M-T6
TEA6422DT



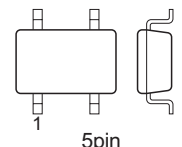
BH3868AFS-E2



MSM56V16160F-10TS-K

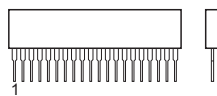


MB81F643242B-10FN



PST9120NL
PST9145NL
TC7SET08FU(TE85L)

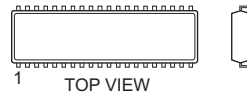
MARKING SIDE VIEW



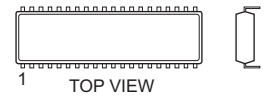
UPC1406HA



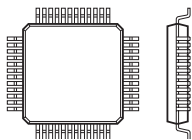
IR2112



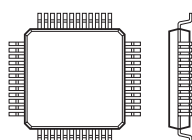
MCZ3001D



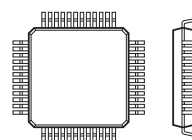
CXA2026AS



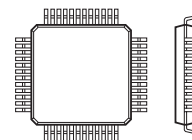
CXD2073Q-T4



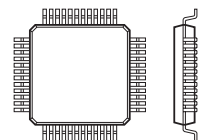
CXA2103Q
CXA2150Q
CXD2309Q



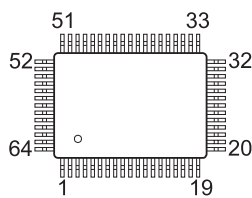
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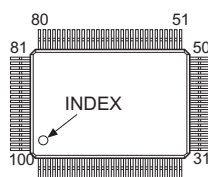
CXD2090Q



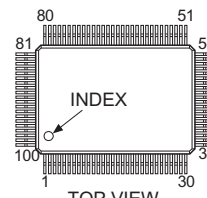
CXD9509AQ



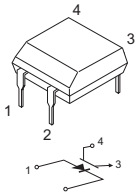
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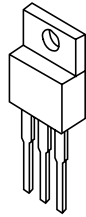
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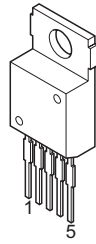
MB94918-DX1MID
M306V2ME-102FP



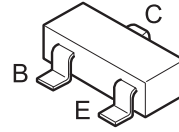
PC123FV2



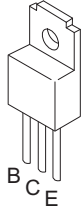
NJM79M12FA



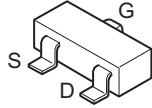
LA6500-FA



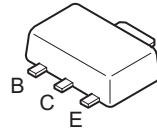
DTA114EKA-T146
DTA143EK
DTA144EKA-T146
DTC114EK
DTC114TKA-T146
DTC143EKA-T146
DTC144EKA-T146
2SA1162-G
2SA1226
2SC1623-L5L6
2SC4081-R
2SD601A-Q
2SD601A-Q-TX
2SD601A-S



2SA2005
2SC5511



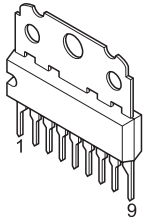
2SK1572S



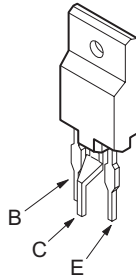
2SK2036(TE85L)



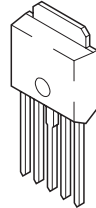
IRF614
IRFI644
IMB12-140-F153A



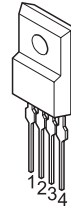
TDA6111Q/N4



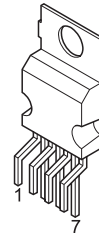
2SC4632LS-CB7



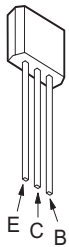
PQ07VZ012P



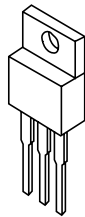
PQ09RD21
PQ05RF21
PQ09RF21
PQ12RF21
PQ30RF21



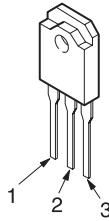
STV9379



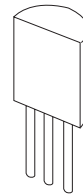
2SA1776TV2Q



UPC2412AHF



2SC3997S-SONY

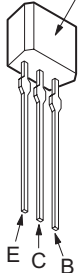


UPC1093J



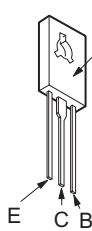
IRFI9630GS

LETTER SIDE

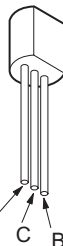


2SA1175-HFE
2SC3311A-QRSTA

LETTER SIDE



2SC2688-LK
2SC3840(3)



2SA1208S-TP

—75—

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:

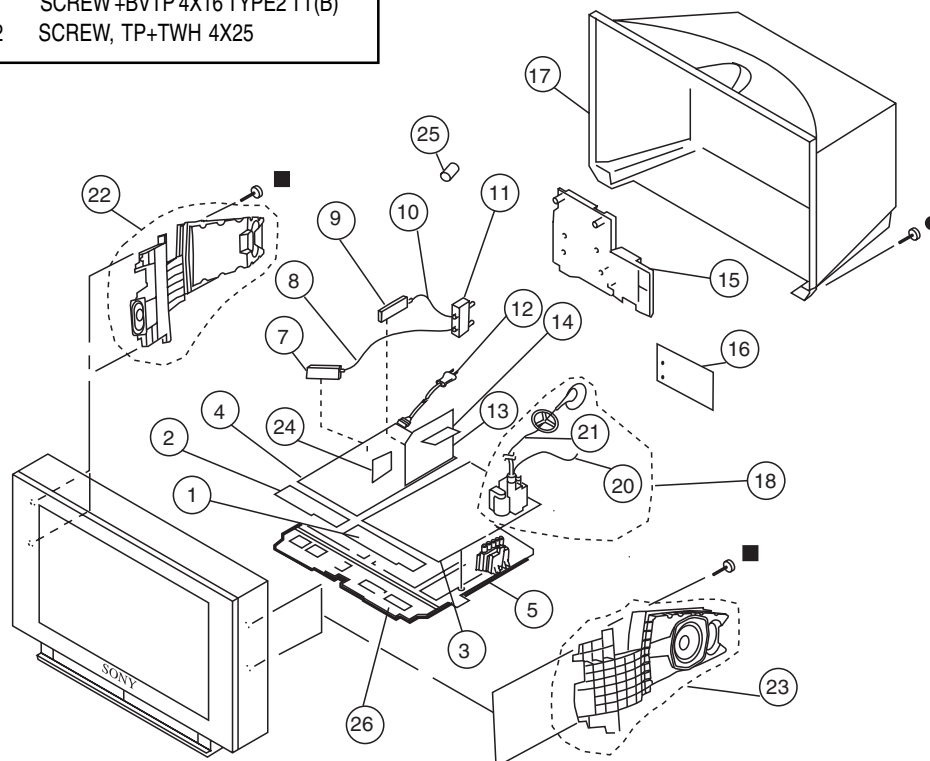
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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
1	A-1372-834-A *	HA BOARD, MOUNTED	
2	A-1372-904-A *	HB (COM) MOUNTED PC BOARD	
3	A-1346-947-A *	D BOARD, COMPLETE	
		(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)	
3	A-1346-948-A *	D BOARD, COMPLETE	
		(KV-36XBR400/38DRC1/36XBR400H only)	
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)	
3	A-1346-956-A *	D BOARD, COMPLETE	
		(KV-38DRC1C only)	
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately. (See 19-21)	
4	A-1299-256-A *	A BOARD, COMPLETE	
		(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
4	A-1299-283-A *	A BOARD, COMPLETE	
		(KV-38DRC1C only)	
5	4-075-828-01 *	BRACKET, MAIN	
6	8-598-865-00 *	BLOCK ASSY, HI-VOL HVB-1040//X	
		(KV-38DRC1C only) (1st 15,000 units only)	
6	8-598-865-01 *	BLOCK ASSY, HI-VOL HVB-1040//X	
		(KV-32XBR400/36XBR400/38DRC1 only) (1st 15,000 units only)	

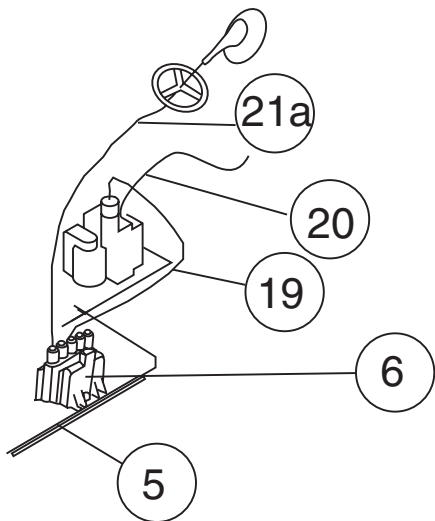
REF.NO.	PART NO.	DESCRIPTION	REMARK
7	8-598-501-30 	TUNER (BTF-FA402)	
8	1-555-400-00	CABLE, PIN	
9	8-598-542-20 	TUNER (BTF-WA412)	
10	1-557-009-31	CABLE, P-P	
11	1-771-787-11	SWITCH RF ANTENNA	
12	1-769-796-61 	CORD, POWER (WITH CONNECTOR)	
		(KV-38DRC1C only)	
12	1-790-316-21 	CORD, AC POWER (WITH CONNECTOR)	
		(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
13	A-1136-147-A *	B BOARD, COMPLETE	
14	A-1136-117-A *	BC BOARD, COMPLETE	
15	4-075-829-01 *	BRACKET, U	
16	A-1373-817-A *	U (COM) MOUNTED PC	
17	4-075-821-01	COVER, REAR	
		(KV-32XBR400 only)	
17	4-075-833-01	COVER, REAR	
		(KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	

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

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.

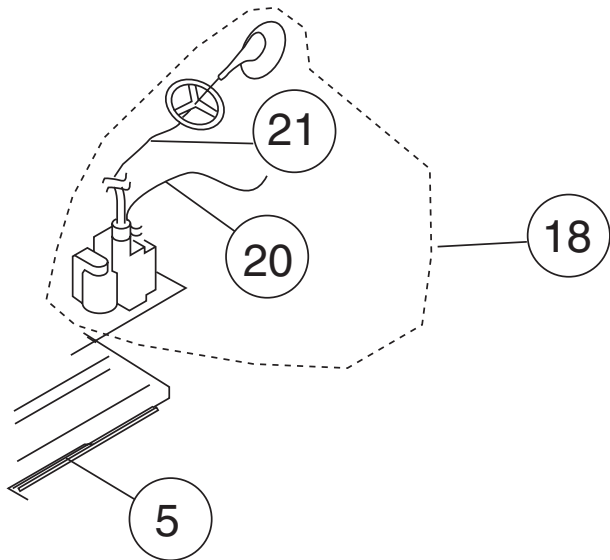
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
18	1-453-346-11 	FBT ASSY, NX-6000//J1J4	(20-21)				
19	1-779-095-33 	LEAD ASSY, HIGH VOLTAGE					
20	1-900-805-19 	WIRE ASSY, FOCUS HV					
21	1-251-715-22 	CAP ASSY, HIGH-VOLTAGE					
21a	1-251-922-11 	CAP ASSY, HIGH-VOLTAGE					
22	1-529-811-11	SPEAKER BOX (L) TYPE 5X9CM (KV-32XBR400 only)					
22	1-529-812-11	SPEAKER BOX (L) TYPE 5X9CM (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
23	1-529-811-21	SPEAKER BOX (R) TYPE 5X9CM (KV-32XBR400 only)					
23	1-529-812-21	SPEAKER BOX (R) TYPE 5X9CM (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
24	A-1391-048-A	S BOARD, MOUNTED					
25	1-500-386-11	FILTER, CLAMP (FERRITE CORE) (KV-32XBR400 /36XBR400/38DRC1/36XBR400H only)					
26	4-075-830-01	BRACKET, H					

EARLY 32XBR PRODUCTION CONFIGURATION





IF HV BLOCK ASSY OR FBT NEEDS REPLACEMENT, USE FBT ASSY# 1-453-346-11 (SHOWN TO THE RIGHT). NEW CONFIGURATION HAS HV BLOCK WITHIN FBT.

CURRENT CONFIGURATION

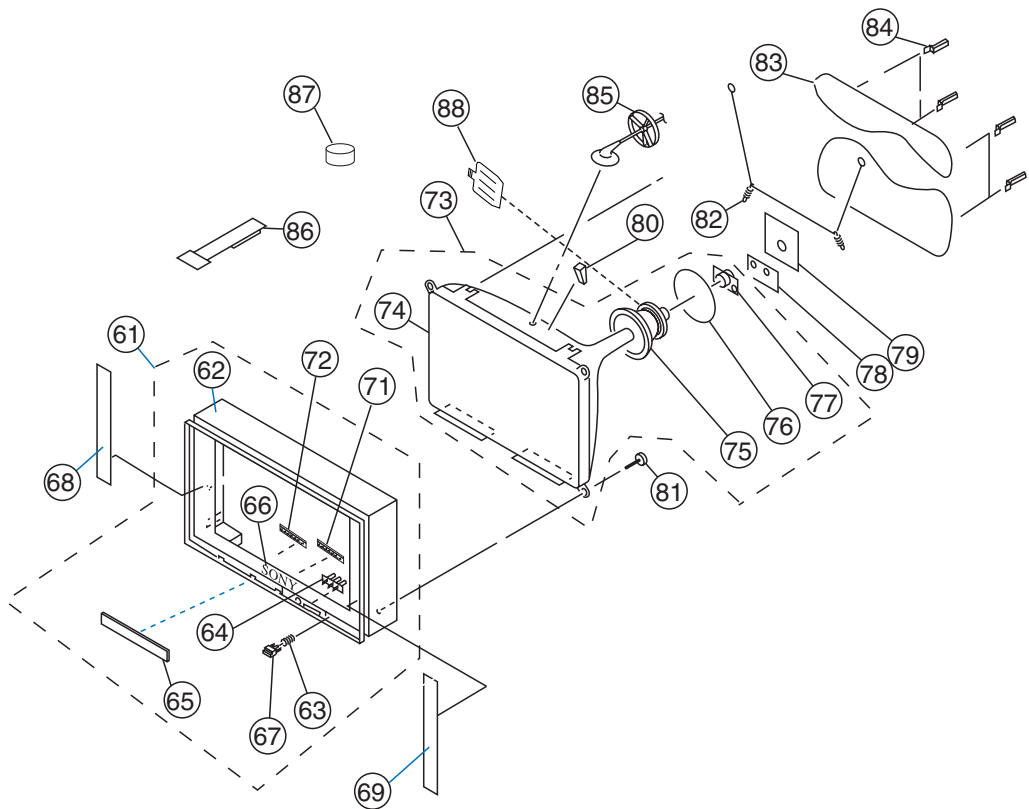


FBT ASSY. P/N 1-453-346-11 (NX-6000//J1J4)






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 securite. Ne les remplacer que par une piece portant le numero specifie.


7-2. PICTURE TUBE






REF.NO.	PART NO.	DESCRIPTION	REMARK
61	X-4037-672-2	BEZNET ASSY (KV-32XBR400 only)	(62-67)
61	X-4037-671-3	BEZNET ASSY (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	(62-67)
62	4-075-820-01	CABINET (KV-32XBR400 only)	
62	4-075-832-01	CABINET (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
63	4-042-593-11 *	SPRING, COMPRESSION	
64	4-075-823-01	GUIDE, LED	
65	4-075-822-11	DOOR, PAINTED	
66	3-704-179-01	EMBLEM (NO.9), SONY	
67	4-075-824-02	BUTTON, POWER	
68	4-077-821-11	GRILL, SPEAKER (L) (KV-32XBR400 only)	
68	4-076-635-11	GRILL, SPEAKER (L) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
69	4-077-822-11	GRILL, SPEAKER (R) (KV-32XBR400 only)	
69	4-076-636-11	GRILL, SPEAKER (R) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	
71	4-075-825-01	BUTTON, MULTI	
72	4-075-826-01	BUTTON, MENU	

REF.NO.	PART NO.	DESCRIPTION	REMARK
73	8-735-048-62 	ITC 38RSN-C1 (A1597344A) (KV-36XBR400 only)	(74-77)
73	8-735-081-62 	ITC 38RSN-C1M (A1597346A) (KV-38DRC1/36XBR400H 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	8-451-512-21 	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	

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.

REF.NO.	PART NO.	DESCRIPTION	REMARK
83	1-416-827-21 	COIL, DEGAUSSING	
		(KV-32XBR400 only)	
83	1-416-828-41 	COIL, DEGAUSSING	
		(KV-36XBR400/38DRC1/36XBR400H 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	
87	1-452-885-11	MAGNET, LANDING	
88	4-057-714-01	PIECE, TLH CONVERGENCE	
		(KV-32XBR400 only)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
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NOTES:

[illegible]


BC


SECTION 8 ELECTRICAL PARTS LIST

Note:

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

Note:

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

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<div><div>BC</div><div>A-1136-117-A BC BOARD, COMPLETE</div></div>				C3532	1-126-964-11	ELECT	10μF 20% 50V
				C3533	1-163-133-00	CERAMIC CHIP	470pF 5% 50V
				C3534	1-126-960-11	ELECT	1μF 20% 50V
				C3535	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
				C3536	1-126-960-11	ELECT	1μF 20% 50V
				C3537	1-126-964-11	ELECT	10μF 20% 50V
				C3538	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
				C3539	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
				C3541	1-163-106-00	CERAMIC CHIP	36pF 5% 50V
				C3542	1-126-964-11	ELECT	10μF 20% 50V
				C3543	1-164-505-11	CERAMIC CHIP	2.2μF 16V
				C3546	1-163-231-11	CERAMIC CHIP	15pF 5% 50V
				C3547	1-126-934-11	ELECT	220μF 20% 10V
				C3548	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3549	1-104-664-11	ELECT	47μF 20% 16V
				C3550	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3551	1-104-664-11	ELECT	47μF 20% 16V
				C3552	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3553	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3554	1-104-664-11	ELECT	47μF 20% 16V
				C3555	1-126-934-11	ELECT	220μF 20% 10V
				C3556	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3557	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3558	1-104-664-11	ELECT	47μF 20% 16V
				C3559	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3560	1-104-664-11	ELECT	47μF 20% 16V
				C3561	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3562	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3563	1-104-664-11	ELECT	47μF 20% 16V
				C3564	1-104-664-11	ELECT	47μF 20% 16V
				C3565	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C3566	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				CONNECTOR			
				*CN3500	1-691-632-21	CONNECTOR, BOARD TO BOARD	15P



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>FERRITE BEAD</u>							
FB3500	1-414-234-22	FERRITE	0μH	Q3511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3501	1-414-234-22	FERRITE	0μH	Q3512	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3502	1-414-234-22	FERRITE	0μH	Q3513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3503	1-414-234-22	FERRITE	0μH	Q3514	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
FB3504	1-414-234-22	FERRITE	0μH	Q3515	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3505	1-414-234-22	FERRITE	0μH	Q3516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3506	1-414-234-22	FERRITE	0μH	Q3517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
FB3507	1-414-234-22	FERRITE	0μH	<u>RESISTOR</u>			
FB3508	1-414-234-22	FERRITE	0μH	R3500	1-216-296-91	SHORT	0
FB3509	1-414-234-22	FERRITE	0μH	R3501	1-216-296-91	SHORT	0
<u>FILTER</u>				R3502	1-216-296-91	SHORT	0
FL3500	1-239-848-21	FILTER, LOW PASS		R3503	1-216-017-91	RES-CHIP	47 5% 1/10W
FL3501	1-239-848-21	FILTER, LOW PASS		R3504	1-216-295-11	SHORT	0
FL3502	1-239-848-21	FILTER, LOW PASS		R3505	1-216-295-11	SHORT	0
FL3503	1-239-848-21	FILTER, LOW PASS		R3506	1-216-295-11	SHORT	0
FL3504	1-233-512-21	FERRITE	37μH	R3507	1-216-295-11	SHORT	0
FL3505	1-233-512-21	FERRITE	37μH	R3508	1-216-295-11	SHORT	0
FL3506	1-233-512-21	FERRITE	37μH	R3509	1-216-049-11	RES-CHIP	1K 5% 1/10W
<u>IC</u>				R3510	1-216-041-00	RES-CHIP	470 5% 1/10W
IC3500	8-759-568-27	IC UPD424210LE-60-E2		R3511	1-216-041-00	RES-CHIP	470 5% 1/10W
IC3501	8-759-594-44	IC UPD64082GF-3BA		R3512	1-216-295-11	SHORT	0
IC3502	8-759-583-47	IC UPC2933T-E1		R3514	1-216-025-11	RES-CHIP	100 5% 1/10W
<u>COIL</u>				R3515	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
L3500	1-414-265-21	INDUCTOR	4.7μH	R3516	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
L3501	1-412-058-11	INDUCTOR	10μH	R3517	1-216-025-11	RES-CHIP	100 5% 1/10W
L3502	1-412-058-11	INDUCTOR	10μH	R3518	1-216-025-11	RES-CHIP	100 5% 1/10W
L3503	1-412-058-11	INDUCTOR	10μH	R3519	1-216-295-11	SHORT	0
L3504	1-412-058-11	INDUCTOR	10μH	R3520	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
L3505	1-412-058-11	INDUCTOR	10μH	R3521	1-216-041-00	RES-CHIP	470 5% 1/10W
<u>TRANSISTOR</u>				R3522	1-216-041-00	RES-CHIP	470 5% 1/10W
Q3500	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3523	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3524	1-216-089-11	RES-CHIP	47K 5% 1/10W
Q3502	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3525	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q3503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3526	1-216-105-91	RES-CHIP	220K 5% 1/10W
Q3504	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3527	1-216-033-00	RES-CHIP	220 5% 1/10W
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3528	1-208-776-11	METAL CHIP	560 0.50% 1/10W
Q3506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3529	1-208-772-11	METAL CHIP	390 0.50% 1/10W
Q3508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3530	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
Q3509	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3531	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3510	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3532	1-216-025-11	RES-CHIP	100 5% 1/10W
				R3533	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R3534	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R3535	1-216-025-11	RES-CHIP	100 5% 1/10W
				R3538	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R3539	1-216-043-91	RES-CHIP	560 5% 1/10W
				R3540	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R3541	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
				R3542	1-216-043-91	RES-CHIP	560 5% 1/10W
				R3543	1-216-049-11	RES-CHIP	1K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3544	1-216-049-11	RES-CHIP	1K 5% 1/10W	C3006	1-124-779-00	ELECT	10μF 20% 16V
R3545	1-216-043-91	RES-CHIP	560 5% 1/10W	C3007	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3547	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C3008	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3548	1-216-295-11	SHORT	0	C3009	1-164-227-11	CERAMIC CHIP	0.022μF 10% 25V
R3549	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C3010	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3550	1-208-780-11	METAL CHIP	820 0.50% 1/10W	C3011	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
R3551	1-216-043-91	RES-CHIP	560 5% 1/10W	C3012	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3552	1-216-031-00	RES-CHIP	180 5% 1/10W	C3013	1-104-601-11	ELECT	10μF 20% 10V
R3553	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C3014	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3554	1-216-047-91	RES-CHIP	820 5% 1/10W	C3015	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
R3555	1-216-075-00	RES-CHIP	12K 5% 1/10W	C3016	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3556	1-216-085-00	RES-CHIP	33K 5% 1/10W	C3017	1-124-779-00	ELECT	10μF 20% 16V
R3557	1-216-049-11	RES-CHIP	1K 5% 1/10W	C3018	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3558	1-216-017-91	RES-CHIP	47 5% 1/10W	C3019	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3559	1-216-295-11	SHORT	0	C3020	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
R3560	1-216-049-11	RES-CHIP	1K 5% 1/10W	C3021	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
R3561	1-216-043-91	RES-CHIP	560 5% 1/10W	C3022	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3563	1-216-295-11	SHORT	0	C3023	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3564	1-216-295-11	SHORT	0	C3024	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3565	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C3025	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3566	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C3026	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3567	1-216-043-91	RES-CHIP	560 5% 1/10W	C3027	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
R3568	1-216-047-91	RES-CHIP	820 5% 1/10W	C3028	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
R3569	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C3030	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3570	1-216-085-00	RES-CHIP	33K 5% 1/10W	C3031	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3571	1-216-075-00	RES-CHIP	12K 5% 1/10W	C3032	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
R3572	1-216-049-11	RES-CHIP	1K 5% 1/10W	C3033	1-126-206-11	ELECT	100μF 20% 6.3V
R3573	1-216-017-91	RES-CHIP	47 5% 1/10W	C3034	1-164-156-11	CERAMIC CHIP	0.1μF 25V
R3588	1-216-043-91	RES-CHIP	560 5% 1/10W	C3035	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
				C3036	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
				C3037	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
				C3039	1-124-779-00	ELECT	10μF 20% 16V
				C3040	1-124-779-00	ELECT	10μF 20% 16V
				C3041	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V
				C3043	1-164-156-11	CERAMIC CHIP	0.1μF 25V
				C3044	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
				C3045	1-124-779-00	ELECT	10μF 20% 16V
				C3046	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3047	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3048	1-163-038-11	CERAMIC CHIP	0.1μF 25V
				C3049	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3050	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C3051	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
				C3054	1-164-156-11	CERAMIC CHIP	0.1μF 25V
				C3055	1-124-779-00	ELECT	10μF 20% 16V
				C3056	1-164-156-11	CERAMIC CHIP	0.1μF 25V
				C3057	1-126-603-11	ELECT	4.7μF 20% 35V
				C3059	1-126-206-11	ELECT	100μF 20% 6.3V
				C3060	1-126-204-11	ELECT	47μF 20% 16V
				C3061	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
CRYSTAL							
X3500	1-767-606-11	VIBRATOR, CRYSTAL					
B							
* A-1136-147-A B BOARD, COMPLETE							
CAPACITOR							
C3001	1-128-453-21	ELECT	47μF 20% 6.3V				
C3002	1-128-453-21	ELECT	47μF 20% 6.3V				
C3003	1-128-453-21	ELECT	47μF 20% 6.3V				
C3004	1-126-206-11	ELECT	100μF 20% 6.3V				
C3005	1-164-156-11	CERAMIC CHIP	0.1μF 25V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3062	1-126-204-11	ELECT	47μF 20% 16V	C3137	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3063	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3138	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3064	1-117-681-11	ELECT	100μF 20% 16V	C3139	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3066	1-126-204-11	ELECT	47μF 20% 16V	C3140	1-124-779-00	ELECT	10μF 20% 16V
C3067	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3141	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3068	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3142	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3069	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3172	1-124-779-00	ELECT	10μF 20% 16V
C3070	1-126-204-11	ELECT	47μF 20% 16V	C3173	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3071	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3204	1-126-193-11	ELECT	1μF 20% 50V
C3072	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3205	1-117-681-11	ELECT	100μF 20% 16V
C3073	1-126-204-11	ELECT	47μF 20% 16V	C3206	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3074	1-126-204-11	ELECT	47μF 20% 16V	C3208	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3075	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	C3209	1-124-779-00	ELECT	10μF 20% 16V
C3076	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3210	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3078	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3211	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3079	1-125-838-11	CERAMIC CHIP	2.2μF 10% 6.3V	C3212	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3080	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3213	1-117-681-11	ELECT	100μF 20% 16V
C3081	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3215	1-126-401-21	ELECT	1μF 20% 50V
C3082	1-126-204-11	ELECT	47μF 20% 16V	C3216	1-126-193-11	ELECT	1μF 20% 50V
C3083	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C3218	1-126-193-11	ELECT	1μF 20% 50V
C3085	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V	C3219	1-126-193-11	ELECT	1μF 20% 50V
C3086	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3220	1-128-993-21	ELECT	22μF 20% 10V
C3087	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3221	1-117-681-11	ELECT	100μF 20% 16V
C3088	1-124-779-00	ELECT	10μF 20% 16V	C3222	1-124-779-00	ELECT	10μF 20% 16V
C3089	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3223	1-124-779-00	ELECT	10μF 20% 16V
C3090	1-126-204-11	ELECT	47μF 20% 16V	C3224	1-124-779-00	ELECT	10μF 20% 16V
C3091	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3225	1-124-779-00	ELECT	10μF 20% 16V
C3092	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3226	1-124-779-00	ELECT	10μF 20% 16V
C3093	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3227	1-124-779-00	ELECT	10μF 20% 16V
C3094	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3229	1-117-681-11	ELECT	100μF 20% 16V
C3096	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3235	1-124-779-00	ELECT	10μF 20% 16V
C3097	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3236	1-124-779-00	ELECT	10μF 20% 16V
C3098	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3237	1-117-681-11	ELECT	100μF 20% 16V
C3099	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	C3239	1-124-779-00	ELECT	10μF 20% 16V
C3113	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3240	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C3114	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3241	1-164-361-11	CERAMIC CHIP	0.047μF 25V
C3115	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3242	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3116	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3243	1-126-193-11	ELECT	1μF 20% 50V
C3117	1-126-603-11	ELECT	4.7μF 20% 35V	C3245	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3120	1-126-206-11	ELECT	100μF 20% 6.3V	C3246	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3127	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3247	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3128	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3248	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3129	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3249	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3130	1-164-315-11	CERAMIC CHIP	470pF 5% 50V	C3250	1-216-295-11	SHORT	0
C3131	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V	C3251	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3132	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3252	1-216-295-11	SHORT	0
C3133	1-125-838-11	CERAMIC CHIP	2.2μF 10% 6.3V	C3253	1-127-573-11	CERAMIC CHIP	1μF 10% 16V
C3134	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3254	1-127-573-11	CERAMIC CHIP	1μF 10% 16V
C3135	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3255	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3136	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V	C3301	1-164-156-11	CERAMIC CHIP	0.1μF 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3302	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3357	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3303	1-126-206-11	ELECT	100μF 20% 6.3V	C3358	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3304	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3359	1-126-204-11	ELECT	47μF 20% 16V
C3305	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3360	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3306	1-126-204-11	ELECT	47μF 20% 16V	C3361	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3307	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3362	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V
C3308	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3363	1-126-204-11	ELECT	47μF 20% 16V
C3309	1-124-779-00	ELECT	10μF 20% 16V	C3364	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3310	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3365	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3311	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3366	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3312	1-126-206-11	ELECT	100μF 20% 6.3V	C3367	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3313	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3368	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3314	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3369	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3315	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3370	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3316	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3371	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3317	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3372	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3318	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3373	1-162-923-11	CERAMIC CHIP	47pF 5% 50V
C3319	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3374	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3320	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3375	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V
C3321	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3376	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3322	1-126-204-11	ELECT	47μF 20% 16V	C3377	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3323	1-124-779-00	ELECT	10μF 20% 16V	C3378	1-126-204-11	ELECT	47μF 20% 16V
C3324	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3379	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3325	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3401	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3326	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3402	1-124-779-00	ELECT	10μF 20% 16V
C3327	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3403	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3328	1-124-779-00	ELECT	10μF 20% 16V	C3404	1-124-779-00	ELECT	10μF 20% 16V
C3331	1-126-204-11	ELECT	47μF 20% 16V	C3405	1-126-206-11	ELECT	100μF 20% 6.3V
C3332	1-124-779-00	ELECT	10μF 20% 16V	C3406	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C3333	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3407	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C3335	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3408	1-126-206-11	ELECT	100μF 20% 6.3V
C3336	1-124-779-00	ELECT	10μF 20% 16V	C3409	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3338	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3410	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3339	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3411	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C3340	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3412	1-163-038-11	CERAMIC CHIP	0.1μF 25V
C3341	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3413	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3343	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3414	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3344	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3415	1-124-779-00	ELECT	10μF 20% 16V
C3345	1-126-204-11	ELECT	47μF 20% 16V	C3416	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3346	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3417	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3347	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3418	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C3348	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3419	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3349	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3420	1-124-779-00	ELECT	10μF 20% 16V
C3350	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3421	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3351	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3422	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3352	1-124-779-00	ELECT	10μF 20% 16V	C3423	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V
C3353	1-126-204-11	ELECT	47μF 20% 16V	C3424	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3354	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3425	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C3355	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3426	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3356	1-126-204-11	ELECT	47μF 20% 16V	C3428	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3429	1-124-779-00	ELECT	10μF 20% 16V	C3483	1-117-681-11	ELECT	100μF 20% 16V
C3430	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3484	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3431	1-126-204-11	ELECT	47μF 20% 16V	C3485	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3432	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3486	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3433	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3487	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3434	1-126-204-11	ELECT	47μF 20% 16V	C3488	1-124-779-00	ELECT	10μF 20% 16V
C3435	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3489	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3436	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3490	1-124-779-00	ELECT	10μF 20% 16V
C3437	1-126-204-11	ELECT	47μF 20% 16V	C3491	1-126-204-11	ELECT	47μF 20% 16V
C3438	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3492	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3439	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3493	1-126-204-11	ELECT	47μF 20% 16V
C3440	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3494	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3441	1-162-916-11	CERAMIC CHIP	12pF 5% 50V	C3495	1-124-779-00	ELECT	10μF 20% 16V
C3442	1-124-779-00	ELECT	10μF 20% 16V	C3496	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3443	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3604	1-124-779-00	ELECT	10μF 20% 16V
C3444	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3605	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3445	1-126-204-11	ELECT	47μF 20% 16V	C3606	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3446	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3607	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3447	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3608	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V
C3448	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	C3609	1-162-968-11	CERAMIC CHIP	.0047μF 10% 50V
C3449	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C3610	1-126-204-11	ELECT	47μF 20% 16V
C3450	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3611	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3451	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3612	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3452	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3613	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3453	1-124-779-00	ELECT	10μF 20% 16V	C3618	1-124-779-00	ELECT	10μF 20% 16V
C3454	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3619	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3455	1-124-779-00	ELECT	10μF 20% 16V	C3623	1-125-891-11	CERAMIC CHIP	0.47μF 10% 10V
C3456	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3624	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3457	1-124-779-00	ELECT	10μF 20% 16V	C3625	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V
C3458	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3626	1-162-968-11	CERAMIC CHIP	.0047μF 10% 50V
C3460	1-162-923-11	CERAMIC CHIP	47pF 5% 50V	C3627	1-126-204-11	ELECT	47μF 20% 16V
C3462	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3628	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3463	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3629	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3464	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3630	1-162-917-11	CERAMIC CHIP	15pF 5% 50V
C3465	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3635	1-126-204-11	ELECT	47μF 20% 16V
C3466	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3636	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C3467	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3637	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3468	1-126-206-11	ELECT	100μF 20% 6.3V	C3638	1-124-779-00	ELECT	10μF 20% 16V
C3469	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3639	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3470	1-126-206-11	ELECT	100μF 20% 6.3V	C3640	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V
C3473	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3641	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3474	1-124-779-00	ELECT	10μF 20% 16V	C3642	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3475	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3643	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C3476	1-124-779-00	ELECT	10μF 20% 16V	C3644	1-164-156-11	CERAMIC CHIP	0.1μF 25V
C3477	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3652	1-162-974-11	CERAMIC CHIP	0.01μF 50V
C3478	1-126-204-11	ELECT	47μF 20% 16V	C3653	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C3479	1-124-779-00	ELECT	10μF 20% 16V	C3654	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C3480	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C3655	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C3481	1-117-681-11	ELECT	100μF 20% 16V	C3656	1-164-230-11	CERAMIC CHIP	220pF 5% 50V
C3482	1-117-681-11	ELECT	100μF 20% 16V	C3657	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3658	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V	FB3206	1-414-234-22	FERRITE	0μH
C3659	1-126-204-11	ELECT	47μF 20% 16V	FB3401	1-414-235-22	FERRITE	0μH
C3660	1-126-204-11	ELECT	47μF 20% 16V	FB3402	1-414-235-22	FERRITE	0μH
				FB3601	1-414-235-22	FERRITE	0μH
CONNECTOR				FILTER			
*CN3201	1-691-616-21	CONNECTOR, BOARD TO BOARD	15P	FL3001	1-239-848-11	FILTER, LOW PASS	
CN3202	1-573-299-21	CONNECTOR, BOARD TO BOARD	10P	FL3002	1-239-848-11	FILTER, LOW PASS	
*CN3203	1-785-303-11	CONNECTOR, DIN (PLUG)	64P	FL3003	1-781-924-11	FILTER, LOW PASS (SMD)	
*CN3204	1-564-526-11	PLUG, CONNECTOR	11P	FL3004	1-239-848-11	FILTER, LOW PASS	
*CN3205	1-785-304-11	CONNECTOR, DIN (RECEPTACLE)	64	FL3401	1-781-923-11	FILTER, LOW PASS (SMD)	
DIODE				IC			
D3001	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3001	8-752-093-84	IC CXA2151Q	
D3002	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3002	8-759-595-97	IC SN74LV4053ANSR	
D3003	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3003	8-752-394-69	IC CXD2073Q-T4	
D3004	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3004	8-759-595-97	IC SN74LV4053ANSR	
D3005	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3048	8-752-089-50	IC CXA2103Q	
D3006	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3089	8-759-575-71	IC M24C04-MN6T	
D3007	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3090	8-759-691-88	IC MB94918RpF-G-130-BND	
D3089	8-719-800-76	DIODE MA153-TX		IC3091	8-759-349-11	IC PST9145NL	
D3090	8-719-800-76	DIODE MA153-TX		IC3110	8-752-089-50	IC CXA2103Q	
D3201	8-719-977-28	DIODE UDZS-TE17-10B		IC3201	8-752-080-04	IC CXA2069Q	
D3202	8-719-977-28	DIODE UDZS-TE17-10B		IC3202	8-759-351-01	IC TEA6422DT	
D3204	8-719-977-28	DIODE UDZS-TE17-10B		IC3203	8-759-331-71	IC NJM4558E(Te2)	
D3205	8-719-977-28	DIODE UDZS-TE17-10B		IC3301	8-759-676-70	IC MSM56V16160F-10TS-K	
D3206	8-719-977-28	DIODE UDZS-TE17-10B		IC3302	8-749-015-18	IC PQ07VZ012P	
D3209	8-719-914-44	DIODE DAP202K-T-146		IC3303	8-752-398-47	IC CXD2090Q	
D3210	8-719-041-97	DIODE MA113-(TX)		IC3304	8-759-447-90	IC TLC5733AIPM	
D3211	8-719-073-01	DIODE MA111-TX		IC3305	8-759-669-75	IC TLC2932IPWR	
D3212	8-719-977-28	DIODE UDZS-TE17-10B		IC3306	8-759-669-78	IC TLC2933IPWR-12	
D3213	8-719-977-28	DIODE UDZS-TE17-10B		IC3401	8-749-015-18	IC PQ07VZ012P	
D3214	8-719-977-28	DIODE UDZS-TE17-10B		IC3402	8-759-677-39	IC MB81F643242B-D	
D3215	8-719-977-28	DIODE UDZS-TE17-10B		IC3403	8-759-460-29	IC PST9120NL	
D3216	8-719-977-28	DIODE UDZS-TE17-10B		IC3404	8-759-669-75	IC TLC2932IPWR	
D3217	8-719-977-28	DIODE UDZS-TE17-10B		IC3405	8-759-485-79	IC TC7SET08FU(Te85R)	
D3301	8-719-422-12	DIODE UDZ-TE-17-3.9B		IC3406	8-759-485-79	IC TC7SET08FU(Te85R)	
D3401	8-719-914-43	DIODE DAN202K-T-146		IC3407	8-759-485-79	IC TC7SET08FU(Te85R)	
D3402	8-719-914-44	DIODE DAP202K-T-146		IC3408	8-759-672-57	IC CXD9509AQ	
D3403	8-719-978-33	DIODE UDZS-TE17-6.8B		IC3409	8-749-015-18	IC PQ07VZ012P	
FERRITE BEAD				IC3410	8-752-367-59	IC CXD2309Q	
FB3201	1-414-234-22	FERRITE	0μH	IC3411	8-759-082-57	IC TC7W04FU(Te12R)	
FB3202	1-414-234-22	FERRITE	0μH	IC3412	8-759-082-58	IC TC7W08FU(Te12R)	
FB3203	1-216-295-11	SHORT	0	IC3413	8-759-595-97	IC SN74LV4053ANSR	
FB3204	1-414-234-22	FERRITE	0μH	IC3414	8-759-548-56	IC M52055FP	
FB3205	1-414-234-22	FERRITE	0μH	IC3601	8-752-916-40	IC CXP85840A-039Q	
				IC3602	8-752-916-40	IC CXP85840A-039Q	
				IC3603	8-752-395-13	IC CXD2085M-T4	
				IC3604	8-759-700-07	IC NJM2903M-TE2	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
COIL				TRANSISTOR			
L3001	1-216-295-11	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	FERRITE	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	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	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	1μH	Q3037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3402	1-412-052-21	INDUCTOR	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	1μH	Q3058	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3411	1-412-058-11	INDUCTOR	10μH	Q3089	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3412	1-469-555-21	INDUCTOR	10μH	Q3090	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3413	1-469-555-21	INDUCTOR	10μH	Q3091	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L3414	1-469-555-21	INDUCTOR	10μH	Q3101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3416	1-469-555-21	INDUCTOR	10μH	Q3102	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3601	1-469-555-21	INDUCTOR	10μH	Q3103	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3602	1-412-951-11	INDUCTOR	10μH	Q3104	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3603	1-469-555-21	INDUCTOR	10μH	Q3110	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3604	1-412-951-11	INDUCTOR	10μH	Q3111	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3605	1-469-555-21	INDUCTOR	10μH	Q3112	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3606	1-469-555-21	INDUCTOR	10μH	Q3201	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3607	1-469-555-21	INDUCTOR	10μH	Q3202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3608	1-414-754-11	INDUCTOR	10μH	Q3203	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
L3609	1-414-754-11	INDUCTOR	10μH	Q3204	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3003	1-216-842-11	RES-CHIP 56K	5% 1/16W
Q3206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3004	1-216-818-11	RES-CHIP 560	5% 1/16W
Q3207	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3005	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q3208	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3006	1-216-817-11	RES-CHIP 470	5% 1/16W
Q3209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3007	1-218-686-11	METAL CHIP 560	0.50% 1/16W
Q3210	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3009	1-218-710-11	METAL CHIP 5.6K	0.50% 1/16W
Q3211	1-801-806-11	TRANSISTOR DTC144EKA-T146		R3010	1-218-716-11	METAL CHIP 10K	0.50% 1/16W
Q3213	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3011	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q3214	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3012	1-216-864-11	SHORT 0	
Q3215	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3013	1-216-813-11	RES-CHIP 220	5% 1/16W
Q3216	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3014	1-218-676-11	METAL CHIP 220	0.50% 1/16W
Q3217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3015	1-216-864-11	SHORT 0	
Q3301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3017	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3018	1-216-817-11	RES-CHIP 470	5% 1/16W
Q3303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3019	1-218-686-11	METAL CHIP 560	0.50% 1/16W
Q3304	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3020	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3305	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3021	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3401	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3022	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3402	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R3023	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q3403	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3024	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3404	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R3025	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3405	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3026	1-216-035-00	RES-CHIP 270	5% 1/10W
Q3406	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3027	1-218-684-11	METAL CHIP 470	0.50% 1/16W
Q3407	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3028	1-218-688-11	METAL CHIP 680	0.50% 1/16W
Q3408	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3029	1-218-704-11	METAL CHIP 3.3K	0.50% 1/16W
Q3409	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3030	1-216-864-11	SHORT 0	
Q3410	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3035	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3411	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3036	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3412	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3037	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3413	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3038	1-218-686-11	METAL CHIP 560	0.50% 1/16W
Q3414	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3039	1-218-686-11	METAL CHIP 560	0.50% 1/16W
Q3415	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R3040	1-218-686-11	METAL CHIP 560	0.50% 1/16W
Q3603	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3042	1-216-821-11	RES-CHIP 1K	5% 1/16W
Q3604	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3043	1-216-837-11	RES-CHIP 22K	5% 1/16W
Q3605	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3044	1-216-837-11	RES-CHIP 22K	5% 1/16W
Q3606	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3045	1-216-817-11	RES-CHIP 470	5% 1/16W
Q3609	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3046	1-216-817-11	RES-CHIP 470	5% 1/16W
Q3610	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3047	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3611	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3048	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3612	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3049	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3613	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3050	1-216-809-11	RES-CHIP 100	5% 1/16W
Q3617	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3051	1-216-845-11	RES-CHIP 100K	5% 1/16W
Q3618	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3052	1-216-845-11	RES-CHIP 100K	5% 1/16W
Q3619	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3053	1-216-845-11	RES-CHIP 100K	5% 1/16W
Q3620	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3056	1-216-817-11	RES-CHIP 470	5% 1/16W
RESISTOR				R3057	1-216-817-11	RES-CHIP 470	5% 1/16W
R3001	1-216-805-11	RES-CHIP 47	5% 1/16W	R3058	1-216-835-11	RES-CHIP 15K	5% 1/16W
R3002	1-216-805-11	RES-CHIP 47	5% 1/16W	R3059	1-216-817-11	RES-CHIP 470	5% 1/16W
				R3060	1-216-809-11	RES-CHIP 100	5% 1/16W
				R3061	1-216-829-11	RES-CHIP 4.7K	5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3062	1-218-697-11	METAL CHIP	1.6K 0.50% 1/16W	R3127	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3063	1-218-716-11	METAL CHIP	10K 0.50% 1/16W	R3128	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3064	1-218-696-11	METAL CHIP	1.5K 0.50% 1/16W	R3129	1-216-835-11	RES-CHIP	15K 5% 1/16W
R3066	1-216-809-11	RES-CHIP	100 5% 1/16W	R3130	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3067	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3131	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3068	1-216-809-11	RES-CHIP	100 5% 1/16W	R3132	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3071	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3133	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3072	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3134	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3073	1-216-805-11	RES-CHIP	47 5% 1/16W	R3135	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3074	1-216-805-11	RES-CHIP	47 5% 1/16W	R3136	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3075	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3137	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3076	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3138	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3077	1-216-809-11	RES-CHIP	100 5% 1/16W	R3139	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3078	1-216-832-11	RES-CHIP	8.2K 5% 1/16W	R3140	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3079	1-216-049-11	RES-CHIP	1K 5% 1/10W	R3141	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3080	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3142	1-216-805-11	RES-CHIP	47 5% 1/16W
R3081	1-216-809-11	RES-CHIP	100 5% 1/16W	R3143	1-216-805-11	RES-CHIP	47 5% 1/16W
R3082	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3144	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3083	1-216-864-11	SHORT	0	R3145	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3084	1-216-864-11	SHORT	0	R3146	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R3085	1-216-864-11	SHORT	0	R3147	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3086	1-216-864-11	SHORT	0	R3151	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3087	1-216-864-11	SHORT	0	R3152	1-216-818-11	RES-CHIP	560 5% 1/16W
R3088	1-216-864-11	SHORT	0	R3154	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R3089	1-216-864-11	SHORT	0	R3155	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3090	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	R3156	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3091	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3157	1-216-817-11	RES-CHIP	470 5% 1/16W
R3092	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3158	1-216-817-11	RES-CHIP	470 5% 1/16W
R3093	1-216-809-11	RES-CHIP	100 5% 1/16W	R3159	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3094	1-216-809-11	RES-CHIP	100 5% 1/16W	R3160	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3095	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3161	1-216-809-11	RES-CHIP	100 5% 1/16W
R3096	1-216-817-11	RES-CHIP	470 5% 1/16W	R3162	1-216-815-11	RES-CHIP	330 5% 1/16W
R3097	1-216-845-11	RES-CHIP	100K 5% 1/16W	R3163	1-218-710-11	METAL CHIP	5.6K 0.50% 1/16W
R3098	1-216-805-11	RES-CHIP	47 5% 1/16W	R3164	1-218-710-11	METAL CHIP	5.6K 0.50% 1/16W
R3099	1-216-805-11	RES-CHIP	47 5% 1/16W	R3165	1-216-861-11	RES-CHIP	2.2M 5% 1/16W
R3100	1-216-809-11	RES-CHIP	100 5% 1/16W	R3166	1-216-861-11	RES-CHIP	2.2M 5% 1/16W
R3101	1-216-809-11	RES-CHIP	100 5% 1/16W	R3180	1-218-673-11	METAL CHIP	160 0.50% 1/16W
R3102	1-216-809-11	RES-CHIP	100 5% 1/16W	R3181	1-218-673-11	METAL CHIP	160 0.50% 1/16W
R3103	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3182	1-218-673-11	METAL CHIP	160 0.50% 1/16W
R3104	1-216-809-11	RES-CHIP	100 5% 1/16W	R3183	1-216-809-11	RES-CHIP	100 5% 1/16W
R3105	1-216-809-11	RES-CHIP	100 5% 1/16W	R3184	1-216-809-11	RES-CHIP	100 5% 1/16W
R3106	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3185	1-216-809-11	RES-CHIP	100 5% 1/16W
R3107	1-216-864-11	SHORT	0	R3186	1-218-674-11	METAL CHIP	180 0.50% 1/16W
R3108	1-216-817-11	RES-CHIP	470 5% 1/16W	R3187	1-218-674-11	METAL CHIP	180 0.50% 1/16W
R3121	1-216-809-11	RES-CHIP	100 5% 1/16W	R3188	1-218-674-11	METAL CHIP	180 0.50% 1/16W
R3122	1-216-809-11	RES-CHIP	100 5% 1/16W	R3190	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3123	1-218-696-11	METAL CHIP	1.5K 0.50% 1/16W	R3191	1-218-694-11	METAL CHIP	1.2K 0.50% 1/16W
R3124	1-218-696-11	METAL CHIP	1.5K 0.50% 1/16W	R3192	1-216-814-11	RES-CHIP	270 5% 1/16W
R3125	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R3193	1-218-698-11	METAL CHIP	1.8K 0.50% 1/16W
R3126	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R3194	1-216-825-11	RES-CHIP	2.2K 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3195	1-216-816-11	RES-CHIP	390 5% 1/16W	R3258	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3196	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3259	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3197	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3260	1-216-853-11	RES-CHIP	470K 5% 1/16W
R3198	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3261	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R3201	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3262	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R3202	1-216-809-11	RES-CHIP	100 5% 1/16W	R3263	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3203	1-216-809-11	RES-CHIP	100 5% 1/16W	R3264	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3204	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3265	1-216-857-11	RES-CHIP	1M 5% 1/16W
R3205	1-216-809-11	RES-CHIP	100 5% 1/16W	R3266	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3207	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3267	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3208	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3268	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3209	1-216-809-11	RES-CHIP	100 5% 1/16W	R3269	1-216-809-11	RES-CHIP	100 5% 1/16W
R3210	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3270	1-249-382-11	CARBON	1.2 5% 1/4W
R3211	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3272	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3212	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3273	1-216-819-11	RES-CHIP	680 5% 1/16W
R3213	1-216-809-11	RES-CHIP	100 5% 1/16W	R3275	1-216-819-11	RES-CHIP	680 5% 1/16W
R3215	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3276	1-216-819-11	RES-CHIP	680 5% 1/16W
R3216	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3277	1-216-819-11	RES-CHIP	680 5% 1/16W
R3217	1-216-809-11	RES-CHIP	100 5% 1/16W	R3279	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3218	1-216-809-11	RES-CHIP	100 5% 1/16W	R3280	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3219	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3281	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3220	1-216-809-11	RES-CHIP	100 5% 1/16W	R3282	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3221	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3284	1-216-864-11	SHORT	0
R3222	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3285	1-216-817-11	RES-CHIP	470 5% 1/16W
R3223	1-216-809-11	RES-CHIP	100 5% 1/16W	R3286	1-218-716-11	METAL CHIP	10K 0.50% 1/16W
R3224	1-216-815-11	RES-CHIP	330 5% 1/16W	R3287	1-216-817-11	RES-CHIP	470 5% 1/16W
R3226	1-216-809-11	RES-CHIP	100 5% 1/16W	R3288	1-218-686-11	METAL CHIP	560 0.50% 1/16W
R3227	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3289	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3228	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3290	1-216-809-11	RES-CHIP	100 5% 1/16W
R3229	1-216-809-11	RES-CHIP	100 5% 1/16W	R3291	1-216-842-11	RES-CHIP	56K 5% 1/16W
R3230	1-216-809-11	RES-CHIP	100 5% 1/16W	R3292	1-216-857-11	RES-CHIP	1M 5% 1/16W
R3231	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3293	1-216-803-11	RES-CHIP	33 5% 1/16W
R3232	1-216-809-11	RES-CHIP	100 5% 1/16W	R3294	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3233	1-216-809-11	RES-CHIP	100 5% 1/16W	R3296	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3234	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3297	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3235	1-216-809-11	RES-CHIP	100 5% 1/16W	R3298	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3236	1-216-809-11	RES-CHIP	100 5% 1/16W	R3299	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3240	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3300	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3241	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3301	1-216-809-11	RES-CHIP	100 5% 1/16W
R3242	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3302	1-218-694-11	METAL CHIP	1.2K 0.50% 1/16W
R3244	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3303	1-218-716-11	METAL CHIP	10K 0.50% 1/16W
R3246	1-216-809-11	RES-CHIP	100 5% 1/16W	R3304	1-218-692-11	METAL CHIP	1K 0.50% 1/16W
R3247	1-216-809-11	RES-CHIP	100 5% 1/16W	R3305	1-216-809-11	RES-CHIP	100 5% 1/16W
R3248	1-216-809-11	RES-CHIP	100 5% 1/16W	R3306	1-216-809-11	RES-CHIP	100 5% 1/16W
R3249	1-216-809-11	RES-CHIP	100 5% 1/16W	R3307	1-216-864-11	SHORT	0
R3250	1-216-809-11	RES-CHIP	100 5% 1/16W	R3308	1-216-864-11	SHORT	0
R3254	1-216-809-11	RES-CHIP	100 5% 1/16W	R3309	1-211-987-11	METAL CHIP	56 0.50% 1/16W
R3255	1-216-809-11	RES-CHIP	100 5% 1/16W	R3310	1-211-987-11	METAL CHIP	56 0.50% 1/16W
R3256	1-216-809-11	RES-CHIP	100 5% 1/16W	R3311	1-211-987-11	METAL CHIP	56 0.50% 1/16W
R3257	1-216-809-11	RES-CHIP	100 5% 1/16W	R3312	1-211-987-11	METAL CHIP	56 0.50% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3313	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3367	1-216-803-11	RES-CHIP	33 5% 1/16W
R3314	1-211-990-11	METAL CHIP	75 0.50% 1/16W	R3369	1-216-864-11	SHORT	0
R3315	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3371	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3316	1-211-989-11	METAL CHIP	68 0.50% 1/16W	R3372	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3317	1-211-989-11	METAL CHIP	68 0.50% 1/16W	R3373	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3318	1-211-990-11	METAL CHIP	75 0.50% 1/16W	R3382	1-216-864-11	SHORT	0
R3319	1-211-987-11	METAL CHIP	56 0.50% 1/16W	R3401	1-218-694-11	METAL CHIP	1.2K 0.50% 1/16W
R3320	1-211-987-11	METAL CHIP	56 0.50% 1/16W	R3403	1-218-692-11	METAL CHIP	1K 0.50% 1/16W
R3321	1-211-987-11	METAL CHIP	56 0.50% 1/16W	R3410	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3322	1-211-987-11	METAL CHIP	56 0.50% 1/16W	R3421	1-216-295-11	SHORT	0
R3323	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3422	1-216-295-11	SHORT	0
R3324	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R3423	1-216-813-11	RES-CHIP	220 5% 1/16W
R3325	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R3428	1-216-019-00	RES-CHIP	56 5% 1/10W
R3326	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3429	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R3327	1-216-835-11	RES-CHIP	15K 5% 1/16W	R3432	1-216-815-11	RES-CHIP	330 5% 1/16W
R3328	1-216-864-11	SHORT	0	R3434	1-216-809-11	RES-CHIP	100 5% 1/16W
R3329	1-216-815-11	RES-CHIP	330 5% 1/16W	R3445	1-216-864-11	SHORT	0
R3330	1-216-815-11	RES-CHIP	330 5% 1/16W	R3446	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3331	1-216-841-11	RES-CHIP	47K 5% 1/16W	R3447	1-216-819-11	RES-CHIP	680 5% 1/16W
R3332	1-218-272-11	RES-CHIP	5.1K 5% 1/16W	R3448	1-216-855-11	RES-CHIP	680K 5% 1/16W
R3333	1-216-864-11	SHORT	0	R3452	1-216-295-11	SHORT	0
R3334	1-216-809-11	RES-CHIP	100 5% 1/16W	R3454	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3335	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3460	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3337	1-216-820-11	RES-CHIP	820 5% 1/16W	R3461	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3338	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3464	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3339	1-216-855-11	RES-CHIP	680K 5% 1/16W	R3465	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3340	1-216-855-11	RES-CHIP	680K 5% 1/16W	R3467	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3341	1-216-813-11	RES-CHIP	220 5% 1/16W	R3470	1-216-809-11	RES-CHIP	100 5% 1/16W
R3342	1-220-158-11	RES-CHIP	3.6K 5% 1/16W	R3471	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3343	1-216-809-11	RES-CHIP	100 5% 1/16W	R3472	1-216-801-11	RES-CHIP	22 5% 1/16W
R3344	1-216-853-11	RES-CHIP	470K 5% 1/16W	R3475	1-216-809-11	RES-CHIP	100 5% 1/16W
R3345	1-218-704-11	METAL CHIP	3.3K 0.50% 1/16W	R3476	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3346	1-216-809-11	RES-CHIP	100 5% 1/16W	R3477	1-218-701-11	METAL CHIP	2.4K 0.50% 1/16W
R3347	1-216-815-11	RES-CHIP	330 5% 1/16W	R3478	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3348	1-216-864-11	SHORT	0	R3483	1-218-701-11	METAL CHIP	2.4K 0.50% 1/16W
R3349	1-218-687-11	METAL CHIP	620 0.50% 1/16W	R3484	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3350	1-216-814-11	RES-CHIP	270 5% 1/16W	R3485	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3351	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3486	1-216-801-11	RES-CHIP	22 5% 1/16W
R3352	1-216-853-11	RES-CHIP	470K 5% 1/16W	R3489	1-216-864-11	SHORT	0
R3353	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3490	1-216-864-11	SHORT	0
R3354	1-216-813-11	RES-CHIP	220 5% 1/16W	R3491	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3355	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3492	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3356	1-216-864-11	SHORT	0	R3493	1-218-701-11	METAL CHIP	2.4K 0.50% 1/16W
R3357	1-218-676-11	METAL CHIP	220 0.50% 1/16W	R3495	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3358	1-218-676-11	METAL CHIP	220 0.50% 1/16W	R3496	1-216-801-11	RES-CHIP	22 5% 1/16W
R3359	1-218-676-11	METAL CHIP	220 0.50% 1/16W	R3497	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R3360	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	R3498	1-216-818-11	RES-CHIP	560 5% 1/16W
R3361	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3499	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3364	1-216-864-11	SHORT	0	R3602	1-216-809-11	RES-CHIP	100 5% 1/16W
R3365	1-216-864-11	SHORT	0	R3606	1-216-864-11	SHORT	0



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3609	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3669	1-216-809-11	RES-CHIP	100 5% 1/16W
R3610	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3672	1-216-864-11	SHORT	0
R3611	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3673	1-216-809-11	RES-CHIP	100 5% 1/16W
R3612	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3674	1-216-813-11	RES-CHIP	220 5% 1/16W
R3613	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3675	1-216-813-11	RES-CHIP	220 5% 1/16W
R3614	1-216-813-11	RES-CHIP	220 5% 1/16W	R3676	1-216-809-11	RES-CHIP	100 5% 1/16W
R3615	1-216-809-11	RES-CHIP	100 5% 1/16W	R3677	1-216-809-11	RES-CHIP	100 5% 1/16W
R3616	1-216-805-11	RES-CHIP	47 5% 1/16W	R3678	1-216-809-11	RES-CHIP	100 5% 1/16W
R3617	1-216-805-11	RES-CHIP	47 5% 1/16W	R3679	1-216-809-11	RES-CHIP	100 5% 1/16W
R3618	1-216-817-11	RES-CHIP	470 5% 1/16W	R3680	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3619	1-216-809-11	RES-CHIP	100 5% 1/16W	R3681	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3620	1-216-813-11	RES-CHIP	220 5% 1/16W	R3682	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3621	1-216-813-11	RES-CHIP	220 5% 1/16W	R3683	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3622	1-216-813-11	RES-CHIP	220 5% 1/16W	R3684	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3623	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3685	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3624	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3686	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3625	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3687	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3626	1-216-815-11	RES-CHIP	330 5% 1/16W	R3688	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3627	1-216-815-11	RES-CHIP	330 5% 1/16W	R3689	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3628	1-216-815-11	RES-CHIP	330 5% 1/16W	R3690	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3630	1-216-809-11	RES-CHIP	100 5% 1/16W	R3691	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3639	1-216-864-11	SHORT	0	R3692	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3640	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3693	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3641	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3694	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3642	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3695	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3644	1-216-857-11	RES-CHIP	1M 5% 1/16W	R3696	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3645	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3697	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3646	1-216-813-11	RES-CHIP	220 5% 1/16W	R3698	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3647	1-216-809-11	RES-CHIP	100 5% 1/16W	R3699	1-216-845-11	RES-CHIP	100K 5% 1/16W
R3648	1-216-805-11	RES-CHIP	47 5% 1/16W	R3800	1-216-864-11	SHORT	0
R3649	1-216-805-11	RES-CHIP	47 5% 1/16W	R3802	1-208-762-11	METAL CHIP	150 0.50% 1/10W
R3650	1-216-817-11	RES-CHIP	470 5% 1/16W	R3803	1-208-762-11	METAL CHIP	150 0.50% 1/10W
R3651	1-216-809-11	RES-CHIP	100 5% 1/16W	R3804	1-208-762-11	METAL CHIP	150 0.50% 1/10W
R3652	1-216-813-11	RES-CHIP	220 5% 1/16W	R3805	1-208-762-11	METAL CHIP	150 0.50% 1/10W
R3653	1-216-813-11	RES-CHIP	220 5% 1/16W	R3806	1-211-987-11	METAL CHIP	56 0.50% 1/16W
R3654	1-216-813-11	RES-CHIP	220 5% 1/16W	R3807	1-208-754-11	METAL CHIP	68 0.50% 1/10W
R3655	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3808	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3656	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3809	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3657	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R3810	1-208-758-11	METAL CHIP	100 0.50% 1/10W
R3658	1-216-815-11	RES-CHIP	330 5% 1/16W	R3811	1-216-809-11	RES-CHIP	100 5% 1/16W
R3659	1-216-815-11	RES-CHIP	330 5% 1/16W	R3812	1-216-809-11	RES-CHIP	100 5% 1/16W
R3660	1-216-815-11	RES-CHIP	330 5% 1/16W	R3813	1-216-809-11	RES-CHIP	100 5% 1/16W
R3661	1-216-809-11	RES-CHIP	100 5% 1/16W	R3814	1-211-969-11	METAL CHIP	10 0.50% 1/16W
R3662	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3815	1-211-973-11	METAL CHIP	15 0.50% 1/16W
R3663	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3816	1-211-977-11	METAL CHIP	22 0.50% 1/16W
R3664	1-216-841-11	RES-CHIP	47K 5% 1/16W	R3817	1-211-977-11	METAL CHIP	22 0.50% 1/16W
R3665	1-216-817-11	RES-CHIP	470 5% 1/16W	R3820	1-218-684-11	METAL CHIP	470 0.50% 1/16W
R3666	1-216-809-11	RES-CHIP	100 5% 1/16W	R3821	1-218-684-11	METAL CHIP	470 0.50% 1/16W
R3667	1-216-839-11	RES-CHIP	33K 5% 1/16W	R3822	1-218-684-11	METAL CHIP	470 0.50% 1/16W
R3668	1-216-797-11	RES-CHIP	10 5% 1/16W	R3823	1-216-826-11	RES-CHIP	2.7K 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3824	1-216-826-11	RES-CHIP	2.7K 5% 1/16W	R3917	1-211-969-11	METAL CHIP	10 0.50% 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 0.50% 1/10W
R3828	1-218-684-11	METAL CHIP	470 0.50% 1/16W	R3925	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3829	1-218-684-11	METAL CHIP	470 0.50% 1/16W	R3926	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3830	1-218-684-11	METAL CHIP	470 0.50% 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 0.50% 1/16W	R3946	1-216-864-11	SHORT	0
R3844	1-218-712-11	METAL CHIP	6.8K 0.50% 1/16W	R3953	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3845	1-218-692-11	METAL CHIP	1K 0.50% 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 0.50% 1/16W	R3958	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R3850	1-218-675-11	METAL CHIP	200 0.50% 1/16W	R3959	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3851	1-216-809-11	RES-CHIP	100 5% 1/16W	R3960	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3852	1-218-675-11	METAL CHIP	200 0.50% 1/16W	R3961	1-208-755-11	METAL CHIP	75 0.50% 1/10W
R3854	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RESISTOR BRIDGE			
R3857	1-216-809-11	RES-CHIP	100 5% 1/16W	RB3301	1-234-525-11	RES, NETWORK	56
R3858	1-218-704-11	METAL CHIP	3.3K 0.50% 1/16W	RB3302	1-234-525-11	RES, NETWORK	56
R3862	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	RB3303	1-234-525-11	RES, NETWORK	56
R3863	1-218-700-11	METAL CHIP	2.2K 0.50% 1/16W	RB3304	1-234-525-11	RES, NETWORK	56
R3864	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	RB3305	1-234-525-11	RES, NETWORK	56
R3865	1-216-809-11	RES-CHIP	100 5% 1/16W	RB3306	1-234-525-11	RES, NETWORK	56
R3866	1-414-234-22	FERRITE	0μH	RB3307	1-234-525-11	RES, NETWORK	56
R3867	1-414-234-22	FERRITE	0μH	RB3401	1-234-524-11	RES, NETWORK	33
R3868	1-414-234-22	FERRITE	0μH	RB3402	1-234-524-11	RES, NETWORK	33
R3869	1-218-719-11	METAL CHIP	13K 0.50% 1/16W	RB3403	1-234-524-11	RES, NETWORK	33
R3870	1-218-719-11	METAL CHIP	13K 0.50% 1/16W	RB3404	1-234-524-11	RES, NETWORK	33
R3871	1-218-719-11	METAL CHIP	13K 0.50% 1/16W	RB3405	1-234-524-11	RES, NETWORK	33
R3872	1-211-990-11	METAL CHIP	75 0.50% 1/16W	RB3406	1-234-524-11	RES, NETWORK	33
R3873	1-211-990-11	METAL CHIP	75 0.50% 1/16W	RB3407	1-234-524-11	RES, NETWORK	33
R3874	1-211-990-11	METAL CHIP	75 0.50% 1/16W	RB3408	1-234-524-11	RES, NETWORK	33
R3876	1-208-762-11	METAL CHIP	150 0.50% 1/10W	RB3409	1-234-524-11	RES, NETWORK	33
R3901	1-216-035-00	RES-CHIP	270 5% 1/10W	RB3410	1-234-524-11	RES, NETWORK	33
R3902	1-216-035-00	RES-CHIP	270 5% 1/10W	RB3411	1-234-524-11	RES, NETWORK	33
R3903	1-216-837-11	RES-CHIP	22K 5% 1/16W	RB3412	1-234-524-11	RES, NETWORK	33
R3904	1-216-837-11	RES-CHIP	22K 5% 1/16W	CRYSTAL			
R3905	1-216-809-11	RES-CHIP	100 5% 1/16W	X3001	1-577-082-11	VIBRATOR, CERAMIC CHIP	
R3906	1-216-809-11	RES-CHIP	100 5% 1/16W	X3047	1-567-505-11	OSCILLATOR, CRYSTAL	
R3907	1-216-809-11	RES-CHIP	100 5% 1/16W	X3089	1-781-945-21	VIBRATOR, CERAMIC CHIP	
R3908	1-216-809-11	RES-CHIP	100 5% 1/16W	X3110	1-567-505-11	OSCILLATOR, CRYSTAL	
R3909	1-216-809-11	RES-CHIP	100 5% 1/16W	X3401	1-781-887-21	VIBRATOR, CRYSTAL	
R3910	1-216-809-11	RES-CHIP	100 5% 1/16W				
R3914	1-216-864-11	SHORT	0				
R3915	1-211-969-11	METAL CHIP	10 0.50% 1/16W				
R3916	1-211-969-11	METAL CHIP	10 0.50% 1/16W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
X3402	1-781-579-21	OSCILLATOR, CRYSTAL		C116	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
X3601	1-767-179-31	VIBRATOR, CERAMIC		C117	1-164-346-11	CERAMIC CHIP	1μF 16V
X3602	1-767-179-31	VIBRATOR, CERAMIC		C119	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
X3603	1-767-989-11	VIBRATOR, CERAMIC CHIP		C120	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
				C121	1-164-346-11	CERAMIC CHIP	1μF 16V
				C205	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
				C210	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V
				C211	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C212	1-126-933-11	ELECT	100μF 20% 16V
				C213	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
				C214	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C216	1-126-933-11	ELECT	100μF 20% 16V
				C217	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C219	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V
				C220	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C221	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C222	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C223	1-136-244-11	FILM	0.1μF 5% 50V
				C224	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C225	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C226	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C227	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C229	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C230	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C232	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C233	1-164-492-11	CERAMIC CHIP	0.15μF 10% 16V
				C234	1-125-838-11	CERAMIC CHIP	2.2μF 10% 6.3V
				C235	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C236	1-126-964-11	ELECT	10μF 20% 50V
				C237	1-126-933-11	ELECT	100μF 20% 16V
				C238	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C239	1-126-964-11	ELECT	10μF 20% 50V
				C240	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C241	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C242	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C243	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C244	1-163-017-00	CERAMIC CHIP	.0047μF 10% 50V
				C245	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C246	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C247	1-126-933-11	ELECT	100μF 20% 16V
				C248	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V
				C249	1-126-967-11	ELECT	47μF 20% 50V
				C250	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C251	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
				C252	1-126-933-11	ELECT	100μF 20% 16V
				C253	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V
				C254	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C255	1-163-243-11	CERAMIC CHIP	47pF 5% 50V
				C256	1-163-243-11	CERAMIC CHIP	47pF 5% 50V
				C257	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V



* A-1299-256-A A BOARD, COMPLETE
(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)

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

* 4-374-846-11 COVER, CAPACITOR, CAP TYPE
(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)

* 4-374-846-01 COVER, CAPACITOR, CAP TYPE
(KV-38DRC1C only)

4-382-854-01 SCREW (M3X8), P, SW (+)

CAPACITOR

C001	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C002	1-104-665-11	ELECT	100μF 20%	10V
C003	1-126-960-11	ELECT	1μF 20%	50V
C004	1-126-967-11	ELECT	47μF 20%	50V
C005	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C006	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C007	1-126-933-11	ELECT	100μF 20%	16V
C008	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V
C009	1-126-964-11	ELECT	10μF 20%	50V
C010	1-126-933-11	ELECT	100μF 20%	16V
C011	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V
C012	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C013	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C014	1-126-960-11	ELECT	1μF 20%	50V
C023	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C025	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C027	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C028	1-126-933-11	ELECT	100μF 20%	16V
C030	1-104-665-11	ELECT	100μF 20%	10V
C032	1-126-933-11	ELECT	100μF 20%	16V
C035	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C037	1-163-021-91	CERAMIC CHIP	0.01μF 10%	50V
C038	1-126-935-11	ELECT	470μF 20%	16V
C039	1-126-964-11	ELECT	10μF 20%	50V
C041	1-164-161-11	CERAMIC CHIP	0.0022μF 10%	50V
C048	1-126-964-11	ELECT	10μF 20%	50V
C051	1-107-714-11	ELECT	10μF 20%	16V
C052	1-107-714-11	ELECT	10μF 20%	16V
C115	1-163-001-11	CERAMIC CHIP	220pF 10%	50V




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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C258	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6033	1-126-941-11	ELECT	470 μ F 20% 25V
C259	1-115-340-11	CERAMIC CHIP	0.22 μ F 10% 25V	C6045	1-126-926-11	ELECT	1000 μ F 20% 10V
C260	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C6048	1-126-767-11	ELECT	1000 μ F 20% 16V
C261	1-126-933-11	ELECT	100 μ F 20% 16V	C6057	1-126-916-11	ELECT	1000 μ F 20% 6.3V
C701	1-164-489-11	CERAMIC CHIP	0.22 μ F 10% 16V	C6059	1-126-971-11	ELECT	470 μ F 20% 50V
C702	1-104-664-11	ELECT	47 μ F 20% 16V	C6060	1-135-573-91	ELECT	1500 μ F 20% 25V
C703	1-104-664-11	ELECT	47 μ F 20% 16V	C6061	1-126-960-11	ELECT	1 μ F 20% 50V
C705	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6062	1-104-664-11	ELECT	47 μ F 20% 25V
C708	1-164-346-11	CERAMIC CHIP	1 μ F 16V	C6063	1-136-479-11	FILM	0.001 μ F 2% 50V
C710	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C6064	1-126-964-11	ELECT	10 μ F 20% 50V
C711	1-163-227-11	CERAMIC CHIP	10pF 0.50pF 50V	C6065	1-126-933-11	ELECT	100 μ F 20% 16V
C712	1-104-664-11	ELECT	47 μ F 20% 16V	C7001	1-126-961-11	ELECT	2.2 μ F 20% 50V
C713	1-164-690-91	CERAMIC CHIP	0.0022 μ F 5% 50V	C7006	1-126-767-11	ELECT	1000 μ F 20% 16V
C715	1-126-964-11	ELECT	10 μ F 20% 50V	C7007	1-136-169-00	FILM	0.22 μ F 5% 50V
C717	1-163-031-11	CERAMIC CHIP	0.01 μ F 50V	C7008	1-126-767-11	ELECT	1000 μ F 20% 16V
C718	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C7009	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C719	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	C7010	1-126-963-11	ELECT	4.7 μ F 20% 50V
C720	1-126-935-11	ELECT	470 μ F 20% 16V	C7011	1-126-959-11	ELECT	0.47 μ F 20% 50V
C721	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	C7012	1-163-017-00	CERAMIC CHIP	.0047 μ F 10% 50V
C722	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	C7013	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V
C724	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7014	1-163-989-11	CERAMIC CHIP	0.033 μ F 10% 25V
C731	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C7015	1-163-989-11	CERAMIC CHIP	0.033 μ F 10% 25V
C732	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C7016	1-126-959-11	ELECT	0.47 μ F 20% 50V
C733	1-163-031-11	CERAMIC CHIP	0.01 μ F 50V	C7017	1-126-963-11	ELECT	4.7 μ F 20% 50V
C735	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C7018	1-136-169-00	FILM	0.22 μ F 5% 50V
C747	1-126-767-11	ELECT	1000 μ F 20% 16V	C7019	1-163-017-00	CERAMIC CHIP	.0047 μ F 10% 50V
C748	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C7020	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	C7021	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V
C6003	1-117-227-11	MYLAR	1 μ F 10% 450V	C7022	1-163-989-11	CERAMIC CHIP	0.033 μ F 10% 25V
C6004	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7023	1-126-935-11	ELECT	470 μ F 20% 16V
C6005	1-126-961-11	ELECT	2.2 μ F 20% 50V	C7024	1-126-935-11	ELECT	470 μ F 20% 16V
C6006	1-126-967-11	ELECT	47 μ F 20% 50V	C7025	1-126-960-11	ELECT	1 μ F 20% 50V
C6007	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C7026	1-126-960-11	ELECT	1 μ F 20% 50V
C6008	1-126-968-11	ELECT	100 μ F 20% 50V	C7028	1-136-165-00	FILM	0.1 μ F 5% 50V
C6009	1-104-664-11	ELECT	47 μ F 20% 25V	C7029	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V
C6011	1-126-968-11	ELECT	100 μ F 20% 50V	C7030	1-126-953-11	ELECT	2200 μ F 20% 35V
C6013	1-119-887-51	CERAMIC CHIP	1000pF 20% 250V	C7032	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V
C6014	1-135-945-21	FILM	10000pF 3% 800V	C7033	1-126-934-11	ELECT	220 μ F 20% 16V
C6015	1-137-399-11	MYLAR	0.1 μ F 5% 100V	C7034	1-136-165-00	FILM	0.1 μ F 5% 50V
C6017	1-125-969-91	CERAMIC CHIP	680pF 10% 1KV	C7035	1-136-165-00	FILM	0.1 μ F 5% 50V
C6018	1-126-929-11	ELECT	4700 μ F 20% 10V	C7036	1-126-942-61	ELECT	1000 μ F 20% 25V
C6019	1-128-546-11	ELECT	10000 μ F 20% 10V	C7037	1-136-160-00	FILM	0.039 μ F 5% 50V
C6020	1-126-936-11	ELECT	3300 μ F 20% 16V	C7038	1-126-942-61	ELECT	1000 μ F 20% 25V
C6021	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C7039	1-136-160-00	FILM	0.039 μ F 5% 50V
C6026	1-126-933-11	ELECT	100 μ F 20% 16V	C7056	1-126-953-11	ELECT	2200 μ F 20% 35V
C6027	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C7057	1-126-953-11	ELECT	2200 μ F 20% 35V
C6028	1-113-924-11	CERAMIC	0.0047 μ F 20% 250V (KV-38DRC1C only)	C7058	1-126-960-11	ELECT	1 μ F 20% 50V
C6029 \triangle	1-136-311-21	MYLAR	0.47 μ F 20% 300V	C7059	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C6030	1-126-935-11	ELECT	470 μ F 20% 16V	C7061	1-126-964-11	ELECT	10 μ F 20% 50V
				C7062	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V

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Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une1 piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q701	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R015	1-208-776-11	METAL CHIP	560 0.50% 1/10W
Q702	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R016	1-216-025-11	RES-CHIP	100 5% 1/10W
Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146		R017	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q704	1-801-806-11	TRANSISTOR DTC144EKA-T146		R037	1-216-295-11	SHORT	0
Q705	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R039	1-216-025-11	RES-CHIP	100 5% 1/10W
Q706	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R042	1-216-025-11	RES-CHIP	100 5% 1/10W
Q707	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R049	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q709	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R052	1-216-085-00	RES-CHIP	33K 5% 1/10W
Q710	8-729-027-23	TRANSISTOR DTA114EKA-T146		R055	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q712	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R061	1-208-776-11	METAL CHIP	560 0.50% 1/10W
Q717	1-801-806-11	TRANSISTOR DTC144EKA-T146		R065	1-216-025-11	RES-CHIP	100 5% 1/10W
Q721	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R082	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q723	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R083	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q724	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R160	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q726	8-729-901-47	TRANSISTOR DTA143EKA-T146		R163	1-216-642-11	METAL CHIP	430 0.50% 1/10W
Q727	8-729-901-47	TRANSISTOR DTA143EKA-T146		R164	1-216-041-00	RES-CHIP	470 5% 1/10W
Q728	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R165	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q729	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R166	1-216-097-11	RES-CHIP	100K 5% 1/10W
Q730	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R167	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q731	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R168	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R169	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6002	8-729-027-23	TRANSISTOR DTA114EKA-T146		R170	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q6007	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122		R171	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q6008	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122		R172	1-216-097-11	RES-CHIP	100K 5% 1/10W
Q6009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R173	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q6010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R174	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q7001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R175	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q7004	8-729-900-53	TRANSISTOR DTC114EKA-T146		R176	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q7005	8-729-900-53	TRANSISTOR DTC114EKA-T146		R204	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q7009	8-729-900-53	TRANSISTOR DTC114EKA-T146		R205	1-216-025-11	RES-CHIP	100 5% 1/10W
Q7010	8-729-900-53	TRANSISTOR DTC114EKA-T146		R206	1-208-752-11	METAL CHIP	56 0.50% 1/10W
Q7013	8-729-900-53	TRANSISTOR DTC114EKA-T146		R207	1-249-413-11	CARBON	470 5% 1/4W
Q7014	8-729-900-53	TRANSISTOR DTC114EKA-T146		R208	1-216-295-11	SHORT	0
Q7015	8-729-900-53	TRANSISTOR DTC114EKA-T146		R210	1-216-025-11	RES-CHIP	100 5% 1/10W
Q7016	8-729-900-53	TRANSISTOR DTC114EKA-T146		R211	1-208-752-11	METAL CHIP	56 0.50% 1/10W
RESISTOR				R215	1-249-413-11	CARBON	470 5% 1/4W
R004	1-216-049-11	RES-CHIP	1K 5% 1/10W	R219	1-216-025-11	RES-CHIP	100 5% 1/10W
R005	1-216-049-11	RES-CHIP	1K 5% 1/10W	R220	1-208-752-11	METAL CHIP	56 0.50% 1/10W
R006	1-216-295-11	SHORT	0	R221	1-249-413-11	CARBON	470 5% 1/4W
R007	1-216-017-91	RES-CHIP	47 5% 1/10W	R223	1-216-025-11	RES-CHIP	100 5% 1/10W
R008	1-216-073-00	RES-CHIP	10K 5% 1/10W	R224	1-216-025-11	RES-CHIP	100 5% 1/10W
R009	1-216-017-91	RES-CHIP	47 5% 1/10W	R226	1-216-073-00	RES-CHIP	10K 5% 1/10W
R010	1-216-073-00	RES-CHIP	10K 5% 1/10W	R228	1-216-025-11	RES-CHIP	100 5% 1/10W
R011	1-216-113-00	RES-CHIP	470K 5% 1/10W	R229	1-216-025-11	RES-CHIP	100 5% 1/10W
R012	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R230	1-216-025-11	RES-CHIP	100 5% 1/10W
R013	1-216-081-00	RES-CHIP	22K 5% 1/10W	R231	1-216-025-11	RES-CHIP	100 5% 1/10W
R014	1-216-085-00	RES-CHIP	33K 5% 1/10W	R232	1-216-025-11	RES-CHIP	100 5% 1/10W
				R233	1-216-025-11	RES-CHIP	100 5% 1/10W
				R234	1-216-025-11	RES-CHIP	100 5% 1/10W
				R235	1-216-025-11	RES-CHIP	100 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R236	1-216-025-11	RES-CHIP	100 5% 1/10W	R710	1-216-073-00	RES-CHIP	10K 5% 1/10W
R237	1-216-025-11	RES-CHIP	100 5% 1/10W	R711	1-216-073-00	RES-CHIP	10K 5% 1/10W
R238	1-216-025-11	RES-CHIP	100 5% 1/10W	R712	1-216-049-11	RES-CHIP	1K 5% 1/10W
R239	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R713	1-216-025-11	RES-CHIP	100 5% 1/10W
R240	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R714	1-216-025-11	RES-CHIP	100 5% 1/10W
R241	1-216-133-00	RES-CHIP	3.3M 5% 1/10W	R719	1-216-049-11	RES-CHIP	1K 5% 1/10W
R242	1-216-075-00	RES-CHIP	12K 5% 1/10W	R721	1-216-049-11	RES-CHIP	1K 5% 1/10W
R243	1-216-073-00	RES-CHIP	10K 5% 1/10W	R727	1-216-049-11	RES-CHIP	1K 5% 1/10W
R244	1-216-025-11	RES-CHIP	100 5% 1/10W	R729	1-216-049-11	RES-CHIP	1K 5% 1/10W
R245	1-216-073-00	RES-CHIP	10K 5% 1/10W	R731	1-216-073-00	RES-CHIP	10K 5% 1/10W
R246	1-216-073-00	RES-CHIP	10K 5% 1/10W	R740	1-216-073-00	RES-CHIP	10K 5% 1/10W
R247	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R741	1-216-073-00	RES-CHIP	10K 5% 1/10W
R248	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R742	1-216-041-00	RES-CHIP	470 5% 1/10W
R249	1-216-025-11	RES-CHIP	100 5% 1/10W	R743	1-216-025-11	RES-CHIP	100 5% 1/10W
R250	1-216-097-11	RES-CHIP	100K 5% 1/10W	R744	1-216-049-11	RES-CHIP	1K 5% 1/10W
R251	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R748	1-216-081-00	RES-CHIP	22K 5% 1/10W
R252	1-216-025-11	RES-CHIP	100 5% 1/10W	R749	1-216-049-11	RES-CHIP	1K 5% 1/10W
R253	1-216-043-91	RES-CHIP	560 5% 1/10W	R754	1-216-025-11	RES-CHIP	100 5% 1/10W
R255	1-216-025-11	RES-CHIP	100 5% 1/10W	R755	1-216-025-11	RES-CHIP	100 5% 1/10W
R256	1-216-041-00	RES-CHIP	470 5% 1/10W	R756	1-216-025-11	RES-CHIP	100 5% 1/10W
R257	1-216-017-91	RES-CHIP	47 5% 1/10W	R757	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R258	1-216-017-91	RES-CHIP	47 5% 1/10W	R758	1-216-025-11	RES-CHIP	100 5% 1/10W
R259	1-216-017-91	RES-CHIP	47 5% 1/10W	R762	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R260	1-216-037-00	RES-CHIP	330 5% 1/10W	R763	1-216-295-11	SHORT	0
R261	1-208-806-11	METAL CHIP	10K 0.50% 1/10W	R764	1-216-049-11	RES-CHIP	1K 5% 1/10W
R262	1-216-025-11	RES-CHIP	100 5% 1/10W	R767	1-216-049-11	RES-CHIP	1K 5% 1/10W
R263	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R769	1-216-049-11	RES-CHIP	1K 5% 1/10W
R264	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R771	1-216-049-11	RES-CHIP	1K 5% 1/10W
R265	1-216-073-00	RES-CHIP	10K 5% 1/10W	R772	1-216-081-00	RES-CHIP	22K 5% 1/10W
R266	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R773	1-216-081-00	RES-CHIP	22K 5% 1/10W
R267	1-216-073-00	RES-CHIP	10K 5% 1/10W	R774	1-216-081-00	RES-CHIP	22K 5% 1/10W
R274	1-216-025-11	RES-CHIP	100 5% 1/10W	R776	1-216-049-11	RES-CHIP	1K 5% 1/10W
R275	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R777	1-216-073-00	RES-CHIP	10K 5% 1/10W
R276	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R780	1-216-073-00	RES-CHIP	10K 5% 1/10W
R277	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R781	1-216-025-11	RES-CHIP	100 5% 1/10W
R278	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R784	1-216-025-11	RES-CHIP	100 5% 1/10W
R280	1-216-295-11	SHORT	0	R785	1-216-049-11	RES-CHIP	1K 5% 1/10W
R281	1-216-295-11	SHORT	0	R787	1-216-121-11	RES-CHIP	1M 5% 1/10W
R282	1-216-295-11	SHORT	0	R788	1-216-295-11	SHORT	0
R283	1-216-295-11	SHORT	0	R789	1-216-041-00	RES-CHIP	470 5% 1/10W
R284	1-216-295-11	SHORT	0	R791	1-216-025-11	RES-CHIP	100 5% 1/10W
R701	1-216-089-11	RES-CHIP	47K 5% 1/10W	R792	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R702	1-216-097-11	RES-CHIP	100K 5% 1/10W	R793	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R703	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R794	1-216-017-91	RES-CHIP	47 5% 1/10W
R704	1-216-073-00	RES-CHIP	10K 5% 1/10W	R795	1-216-025-11	RES-CHIP	100 5% 1/10W
R705	1-216-101-00	RES-CHIP	150K 5% 1/10W	R796	1-216-295-11	SHORT	0
R706	1-216-073-00	RES-CHIP	10K 5% 1/10W	R797	1-216-017-91	RES-CHIP	47 5% 1/10W
R707	1-216-097-11	RES-CHIP	100K 5% 1/10W	R798	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R708	1-216-025-11	RES-CHIP	100 5% 1/10W	R799	1-216-049-11	RES-CHIP	1K 5% 1/10W
R709	1-216-097-11	RES-CHIP	100K 5% 1/10W	R800	1-216-057-00	RES-CHIP	2.2K 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R801	1-216-025-11	RES-CHIP	100 5% 1/10W	R867	1-216-081-00	RES-CHIP	22K 5% 1/10W
R802	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6001	1-216-073-00	RES-CHIP	10K 5% 1/10W
R803	1-216-017-91	RES-CHIP	47 5% 1/10W	R6002	1-249-393-11	CARBON	10 5% 1/4W
R804	1-216-037-00	RES-CHIP	330 5% 1/10W	R6003 Δ	1-219-776-11	CARBON	2.2M 10% 1/2W
R805	1-216-037-00	RES-CHIP	330 5% 1/10W	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)			
R806	1-216-037-00	RES-CHIP	330 5% 1/10W	R6003 Δ	1-247-289-00	CARBON	8.2M 5% 1W
R807	1-216-017-91	RES-CHIP	47 5% 1/10W	(KV-38DRC1C only)			
R808	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6004	1-216-121-11	RES-CHIP	1M 5% 1/10W
R812	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6006	1-217-418-61	FUSIBLE	0.47 10% 1/2W
R813	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6007	1-215-481-00	METAL CHIP	330K 1% 1/4W
R814	1-216-025-11	RES-CHIP	100 5% 1/10W	R6008	1-215-481-00	METAL CHIP	330K 1% 1/4W
R815	1-216-025-11	RES-CHIP	100 5% 1/10W	R6009	1-215-481-00	METAL CHIP	330K 1% 1/4W
R816	1-216-025-11	RES-CHIP	100 5% 1/10W	R6010	1-249-393-11	CARBON	10 5% 1/4W
R817	1-216-025-11	RES-CHIP	100 5% 1/10W	R6011	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R818	1-216-025-11	RES-CHIP	100 5% 1/10W	R6012	1-216-049-11	RES-CHIP	1K 5% 1/10W
R819	1-216-037-00	RES-CHIP	330 5% 1/10W	R6015	1-216-049-11	RES-CHIP	1K 5% 1/10W
R822	1-216-037-00	RES-CHIP	330 5% 1/10W	R6019	1-216-073-00	RES-CHIP	10K 5% 1/10W
R824	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6020	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R825	1-216-025-11	RES-CHIP	100 5% 1/10W	R6021	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W
R827	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R6022	1-208-803-11	METAL CHIP	7.5K 0.50% 1/10W
R828	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6025	1-249-417-11	CARBON	1K 5% 1/4W
R829	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6029	1-216-105-91	RES-CHIP	220K 5% 1/10W
R830	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6038	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R834	1-216-041-00	RES-CHIP	470 5% 1/10W	R6039	1-208-812-11	METAL CHIP	18K 0.50% 1/10W
R836	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6040	1-208-840-11	METAL CHIP	270K 0.50% 1/10W
R837	1-216-025-11	RES-CHIP	100 5% 1/10W	R6041 Δ	1-240-241-11	CEMENTED	0.47 5% 20W
R838	1-216-049-11	RES-CHIP	1K 5% 1/10W	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)			
R839	1-216-025-11	RES-CHIP	100 5% 1/10W	R6041 Δ	1-205-943-11	CEMENTED	1 5% 20W
R841	1-216-033-00	RES-CHIP	220 5% 1/10W	(KV-38DRC1C only)			
R842	1-216-081-00	RES-CHIP	22K 5% 1/10W	R6042 Δ	1-240-241-11	CEMENTED	0.47 5% 20W
R843	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)			
R847	1-216-025-11	RES-CHIP	100 5% 1/10W	R6042 Δ	1-205-943-11	CEMENTED	1 5% 20W
R848	1-216-025-11	RES-CHIP	100 5% 1/10W	(KV-38DRC1C only)			
R849	1-216-295-11	SHORT	0	R6043	1-211-964-11	METAL CHIP	33 0.50% 1/10W
R850	1-216-295-11	SHORT	0	R6044	1-249-393-11	CARBON	10 5% 1/4W
R851	1-216-295-11	SHORT	0	R6046	1-216-073-00	RES-CHIP	10K 5% 1/10W
R852	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6047	1-216-041-00	RES-CHIP	470 5% 1/10W
R853	1-216-295-11	SHORT	0	R6049	1-216-363-00	METAL OXIDE	0.33 5% 2W
R854	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6050	1-216-363-00	METAL OXIDE	0.33 5% 2W
R856	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6051	1-249-393-11	CARBON	10 5% 1/4W
R857	1-216-025-11	RES-CHIP	100 5% 1/10W	R6052	1-216-073-00	RES-CHIP	10K 5% 1/10W
R858	1-216-295-11	SHORT	0	R6053	1-215-907-11	METAL OXIDE	22 5% 3W
R859	1-216-295-11	SHORT	0	R6055	1-216-295-11	SHORT	0
R860	1-216-689-11	RES-CHIP	39K 5% 1/10W	R6056	1-208-810-11	METAL CHIP	15K 0.50% 1/10W
R861	1-216-689-11	RES-CHIP	39K 5% 1/10W	R6058	1-208-758-11	METAL CHIP	100 0.50% 1/10W
R862	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6059	1-249-417-11	CARBON	1K 5% 1/4W
R863	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6060	1-202-962-11	CEMENTED	3.3 5% 10W
R864	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	(KV-38DRC1C only)			
R865	1-216-295-11	SHORT	0	R6061	1-202-962-11	CEMENTED	3.3 5% 10W
R866	1-216-295-11	SHORT	0	(KV-38DRC1C only)			



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R6062	1-216-295-11	SHORT	0	R7070	1-216-689-11	RES-CHIP	39K 5% 1/10W
R6063	1-216-073-00	RES-CHIP	10K 5% 1/10W	R7071	1-216-121-11	RES-CHIP	1M 5% 1/10W
R6064	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R7083	1-249-429-11	CARBON	10K 5% 1/4W
R6065	1-216-049-11	RES-CHIP	1K 5% 1/10W	R7086	1-216-295-11	SHORT	0
R6066 \triangle	1-216-343-00	METAL OXIDE	0.33 5% 1W	R7088	1-216-295-11	SHORT	0
R6067	1-216-049-11	RES-CHIP	1K 5% 1/10W	R7090	1-216-089-11	RES-CHIP	47K 5% 1/10W
R6068	1-249-433-11	CARBON	22K 5% 1/4W	R7091	1-216-081-00	RES-CHIP	22K 5% 1/10W
R7002	1-216-097-11	RES-CHIP	100K 5% 1/10W	R7092	1-216-025-11	RES-CHIP	100 5% 1/10W
R7003	1-216-689-11	RES-CHIP	39K 5% 1/10W	R7093	1-216-025-11	RES-CHIP	100 5% 1/10W
R7004	1-216-689-11	RES-CHIP	39K 5% 1/10W	R7094	1-216-081-00	RES-CHIP	22K 5% 1/10W
R7005	1-216-121-11	RES-CHIP	1M 5% 1/10W	R7095	1-216-089-11	RES-CHIP	47K 5% 1/10W
R7006	1-216-089-11	RES-CHIP	47K 5% 1/10W	R7096	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R7007	1-216-017-91	RES-CHIP	47 5% 1/10W	R7097	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R7008	1-216-085-00	RES-CHIP	33K 5% 1/10W	R7098	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R7009	1-216-295-11	SHORT	0	R7099	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R7010	1-216-295-11	SHORT	0	R7100	1-216-081-00	RES-CHIP	22K 5% 1/10W
R7011	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R7101	1-216-081-00	RES-CHIP	22K 5% 1/10W
R7012	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R7103	1-216-049-11	RES-CHIP	1K 5% 1/10W
R7013	1-216-077-91	RES-CHIP	15K 5% 1/10W	R7104	1-216-295-11	SHORT	0
R7014	1-249-429-11	CARBON	10K 5% 1/4W				
R7015	1-249-429-11	CARBON	10K 5% 1/4W				
R7016	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R7017	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R7018	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R7019	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R7021	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7022	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R7023	1-249-385-11	CARBON	2.2 5% 1/4W				
R7024	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7025	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7026	1-249-385-11	CARBON	2.2 5% 1/4W				
R7045	1-216-081-00	RES-CHIP	22K 5% 1/10W				
R7046	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R7047	1-216-041-00	RES-CHIP	470 5% 1/10W				
R7048	1-216-041-00	RES-CHIP	470 5% 1/10W				
R7051	1-216-295-11	SHORT	0				
R7052	1-216-077-91	RES-CHIP	15K 5% 1/10W				
R7053	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7054	1-216-295-11	SHORT	0				
R7055	1-216-069-00	RES-CHIP	6.8K 5% 1/10W				
R7056	1-216-069-00	RES-CHIP	6.8K 5% 1/10W				
R7058	1-249-429-11	CARBON	10K 5% 1/4W				
R7059	1-249-385-11	CARBON	2.2 5% 1/4W				
R7060	1-249-385-11	CARBON	2.2 5% 1/4W				
R7061	1-216-295-11	SHORT	0				
R7063	1-216-689-11	RES-CHIP	39K 5% 1/10W				
R7064	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7065	1-216-041-00	RES-CHIP	470 5% 1/10W				
R7067	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R7068	1-216-041-00	RES-CHIP	470 5% 1/10W				

RELAY

RY6001 \triangle 1-755-389-11 RELAY (AC POWER)

TRANSFORMER

T6001 \triangle 1-433-404-11 TRANSFORMER, LINE FILTER

T6002 \triangle 1-435-675-11 TRANSFORMER, STANDBY
(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)

T6002 \triangle 1-435-676-11 TRANSFORMER, STANDBY
(KV-38DRC1C only)

T6003 1-435-577-11 TRANSFORMER, CONVERTER (PIT)

THERMISTOR

TH6002 \triangle 1-803-970-11 THERMISTOR, POSITIVE

(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)

TH6002 \triangle 1-803-540-11 THERMISTOR

(KV-38DRC1C only)

TUNER

TU001 \triangle 8-598-501-30 TUNER, FSS BTF-FA402

TU002 \triangle 8-598-542-20 TUNER, FSS BTF-WA412

VARISTOR

VD6001 \triangle 1-801-074-11 VARISTOR ERZV10D271

(KV-32XBR400/36XBR400/38DRC1/36XBR400H only)

VD6001 \triangle 1-803-587-11 VARISTOR ENE471D-14A

(KV-38DRC1C only)

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CRYSTAL				C9038	1-126-963-11	ELECT	4.7μF 20% 50V
X201	1-760-895-21	VIBRATOR, CERAMIC CHIP		C9042	1-126-940-11	ELECT	330μF 20% 25V
X702	1-781-931-21	VIBRATOR, CRYSTAL		C9046	1-126-933-11	ELECT	100μF 20% 16V
				C9047	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C				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			
* A-1332-075-A C BOARD, MOUNTED				D9001	8-719-991-33	DIODE 1SS133T-77	
7-682-647-09 SCREW +PS 3X6				D9002	8-719-400-75	DIODE MA3091-TX	
				D9003	8-719-991-33	DIODE 1SS133T-77	
CAPACITOR				D9005	8-719-073-01	DIODE MA111-TX	
C9001	1-126-940-11	ELECT	330μF 20% 25V	D9006	8-719-051-85	DIODE HSS83TD	
C9002	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9007	8-719-051-85	DIODE HSS83TD	
C9003	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9008	8-719-051-85	DIODE HSS83TD	
C9004	1-162-114-00	CERAMIC CHIP	.0047μF 2KV	D9009	8-719-908-03	DIODE GP08DPKG23	
C9005	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9010	8-719-110-17	DIODE MTZJ-T-77-10	
C9006	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9013	8-719-991-33	DIODE 1SS133T-77	
C9007	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9014	8-719-991-33	DIODE 1SS133T-77	
C9008	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9015	8-719-991-33	DIODE 1SS133T-77	
C9009	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9016	8-719-991-33	DIODE 1SS133T-77	
C9010	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	D9017	8-719-991-33	DIODE 1SS133T-77	
C9011	1-161-830-00	CERAMIC CHIP	.0047μF 500V	IC			
C9012	1-161-830-00	CERAMIC CHIP	.0047μF 500V	IC9001	8-759-360-83	IC TDA6111Q/N4	
C9013	1-163-035-00	CERAMIC CHIP	0.047μF 50V	IC9002	8-759-360-83	IC TDA6111Q/N4	
C9014	1-161-830-00	CERAMIC CHIP	.0047μF 500V	IC9003	8-759-360-83	IC TDA6111Q/N4	
C9015	1-163-087-00	CERAMIC CHIP	4pF 0.25pF 50V	JACK			
C9018	1-107-961-91	ELECT	10μF 20% 250V	J9001 \triangle	1-451-470-21	SOCKET, CRT	
C9019	1-163-035-00	CERAMIC CHIP	0.047μF 50V	COIL			
C9020	1-107-961-91	ELECT	10μF 20% 250V	L9002	1-408-591-11	INDUCTOR	1μH
C9021	1-107-961-91	ELECT	10μF 20% 250V	L9003	1-408-591-11	INDUCTOR	1μH
C9022	1-101-004-00	CERAMIC CHIP	0.01μF 50V	L9004	1-408-591-11	INDUCTOR	1μH
C9023	1-101-004-00	CERAMIC CHIP	0.01μF 50V	L9005	1-406-666-21	INDUCTOR	150μH
C9024	1-163-035-00	CERAMIC CHIP	0.047μF 50V	L9006	1-412-525-31	INDUCTOR	10μH
C9025	1-104-653-11	ELECT	220μF 20% 16V				
C9026	1-163-035-00	CERAMIC CHIP	0.047μF 50V				
C9027	1-101-004-00	CERAMIC CHIP	0.01μF 50V				
C9028	1-163-017-00	CERAMIC CHIP	.0047μF 10% 50V				
C9029	1-163-017-00	CERAMIC CHIP	.0047μF 10% 50V				
C9030	1-163-017-00	CERAMIC CHIP	.0047μF 10% 50V				
C9031	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV				
C9032	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV				
C9033	1-107-662-11	ELECT	22μF 20% 250V				
C9035	1-126-933-11	ELECT	100μF 20% 16V				
C9036	1-126-964-11	ELECT	10μF 20% 50V				
C9037	1-126-961-11	ELECT	2.2μF 20% 50V				



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numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
TRANSISTOR				R9053	1-249-424-11	CARBON	3.9K 5% 1/4W
Q9001	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R9054	1-249-424-11	CARBON	3.9K 5% 1/4W
Q9002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R9055	1-260-126-81	CARBON	180K 5% 1/2W
Q9003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R9056	1-202-549-00	SOLID	100 20% 1/2W
Q9004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R9057	1-202-847-00	SOLID	560K 20% 1/2W
Q9005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R9059	1-202-818-00	SOLID	1K 20% 1/2W
Q9008	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R9061	1-202-549-00	SOLID	100 20% 1/2W
Q9009	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R9062	1-260-123-11	CARBON	100K 5% 1/2W
Q9010	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R9063	1-260-123-11	CARBON	100K 5% 1/2W
Q9011	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		R9064	1-260-126-81	CARBON	180K 5% 1/2W
Q9012	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R9065	1-249-425-11	CARBON	4.7K 5% 1/4W
Q9014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R9067	1-219-769-11	CARBON	3.3M 5% 1/2W
RESISTOR				R9068	1-216-101-00	RES-CHIP	150K 5% 1/10W
R9001	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	R9070	1-249-411-11	CARBON	330 5% 1/4W
R9004	1-249-428-11	CARBON	8.2K 5% 1/4W	R9071	1-249-411-11	CARBON	330 5% 1/4W
R9005	1-249-421-11	CARBON	2.2K 5% 1/4W	R9072	1-249-411-11	CARBON	330 5% 1/4W
R9006	1-249-429-11	CARBON	10K 5% 1/4W	R9073	1-216-049-11	RES-CHIP	1K 5% 1/10W
R9007	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	R9076	1-219-769-11	CARBON	3.3M 5% 1/2W
R9008	1-216-085-00	RES-CHIP	33K 5% 1/10W	R9077	1-249-417-11	CARBON	1K 5% 1/4W
R9009	1-249-429-11	CARBON	10K 5% 1/4W	R9078	1-249-427-11	CARBON	6.8K 5% 1/4W
R9010	1-249-429-11	CARBON	10K 5% 1/4W	R9079	1-249-426-11	CARBON	5.6K 5% 1/4W
R9012	1-249-417-11	CARBON	1K 5% 1/4W	R9081	1-247-843-11	CARBON	3.3K 5% 1/4W
R9013	1-216-049-11	RES-CHIP	1K 5% 1/10W	R9083	1-249-436-11	CARBON	39K 5% 1/4W
R9014	1-249-409-11	CARBON	220 5% 1/4W	R9084	1-260-126-81	CARBON	180K 5% 1/2W
R9015	1-249-409-11	CARBON	220 5% 1/4W	R9085	1-260-126-81	CARBON	180K 5% 1/2W
R9016	1-249-409-11	CARBON	220 5% 1/4W	R9089	1-215-445-00	METAL CHIP	10K 1% 1/4W
R9018	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R9091	1-215-429-00	METAL CHIP	2.2K 1% 1/4W
R9019	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	VARIABLE RESISTOR			
R9026	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	RV9001 \triangle	1-241-714-11	RES, ADJ, METAL CHIP FILM	110M
R9031	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	RV9002	1-241-788-11	RES, ADJ, CARBON	100K
R9033	1-215-447-00	METAL CHIP	12K 1% 1/4W				
R9034	1-215-439-00	METAL CHIP	5.6K 1% 1/4W				
R9035	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W				
R9036	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R9037	1-240-233-71	METALOXIDE	100 5% 3W				
R9038	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W				
R9039	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W				
R9041	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R9042	1-216-049-11	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	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R9049	1-216-049-11	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				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<div> </div>				C5032	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
				C5033	1-136-165-00	FILM	0.1μF 5% 50V
				C5034	1-162-114-00	CERAMIC CHIP	.0047μF 2KV
				C5035	1-126-933-11	ELECT	100μF 20% 16V
				C5036	1-126-941-11	ELECT	470μF 20% 25V
<div> <p>* A-1346-947-A D BOARD, COMPLETE (KV-32XBR400 only)</p> <p>* A-1346-948-A D BOARD, COMPLETE (KV-36XBR400/38DRC1/36XBR400H only)</p> <p>* A-1346-956-A D BOARD, COMPLETE (KV-38DRC1C only)</p> </div>				C5037	1-107-670-11	ELECT	10μF 20% 400V
<p>The high voltage leads associated with the FBT on this board are not included and must be ordered separately. Order the following leads when requesting this D Board:</p>				C5038	1-104-664-11	ELECT	47μF 20% 16V
	1-251-715-22	CAP ASSY, HIGH-VOLTAGE		C5040	1-126-935-11	ELECT	470μF 20% 16V
	1-900-805-19	WIRE ASSY, FOCUS HV		C5041	1-126-935-11	ELECT	470μF 20% 16V
	3-710-578-01	COVER, VOLUME, 6 MOLD		C5043	1-126-767-11	ELECT	1000μF 20% 16V
	4-382-854-01	SCREW (M3X8), P, SW (+)		C5044	1-165-319-11	CERAMIC CHIP	0.1μF 50V
	4-382-854-21	SCREW (M3X14), 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 CHIP	0.001μF 10% 500V
C5009	1-126-941-11	ELECT	470μF 20% 25V	C5057	1-162-134-11	CERAMIC CHIP	470pF 10% 2KV
C5010	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C5058	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV
C5011	1-107-641-11	ELECT	220μF 20% 160V	C5059	1-162-116-00	CERAMIC CHIP	680pF 10% 2KV
C5012	1-163-017-00	CERAMIC CHIP	.0047μF 10% 50V	C5060	1-137-417-11	MYLAR	.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	FILM	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 CHIP	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	.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 CHIP	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
C5027	1-126-963-11	ELECT	4.7μF 20% 50V	C5102	1-107-888-11	ELECT	47μF 20% 25V
C5028	1-126-963-11	ELECT	4.7μF 20% 50V	C5501	1-107-888-11	ELECT	47μF 20% 25V
C5030	1-136-153-00	FILM	0.01μF 5% 50V	C5502	1-126-941-11	ELECT	470μF 20% 25V
C5031	1-163-011-11	CERAMIC CHIP	0.0015μF 10% 50V	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
				C5507	1-163-141-00	CERAMIC CHIP	0.001μF 5% 50V
				C5508	1-163-031-11	CERAMIC CHIP	0.01μF 50V
				C5509	1-163-263-11	CERAMIC CHIP	330pF 5% 50V
				C5511	1-126-933-11	ELECT	100μF 20% 16V
				C5514	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C5518	1-129-709-61	FILM	0.0039 μ F 5% 630V	C6544	1-107-855-12	ELECT(BLOCK)	330 μ F 160V
C5519	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V	C6545	1-126-943-11	ELECT	2200 μ F 20% 25V
C5522	1-163-275-11	CERAMIC CHIP	0.001 μ F 5% 50V	C6546	1-128-548-11	ELECT	4700 μ F 20% 25V
C5531	1-136-165-00	FILM	0.1 μ F 5% 50V	C6547	1-113-610-11	ELECT(BLOCK)	220 μ F 20% 250V
C5533	1-137-366-11	MYLAR	0.0022 μ F 5% 50V	C6548	1-128-549-11	ELECT	3300 μ F 20% 35V
C5542	1-164-182-11	CERAMIC CHIP	0.0033 μ F 10% 50V	C6551	1-163-037-11	CERAMIC CHIP	0.022 μ F 10% 50V
C5548	1-137-194-81	FILM	0.47 μ F 5% 50V	C6561	1-126-960-11	ELECT	1 μ F 20% 50V
C5550	1-129-716-00	FILM	0.015 μ F 5% 200V	C6584 \triangle	1-136-344-11	MYLAR	0.047 μ F 20% 300V
C5576	1-104-666-11	ELECT	220 μ F 20% 25V	C6585 \triangle	1-119-899-51	CERAMIC CHIP	1000pF 10% 250V
C5577	1-104-666-11	ELECT	220 μ F 20% 25V	C6586	1-113-924-11	CERAMIC CHIP	.0047 μ F 20% 125V
C5587	1-104-760-11	CERAMIC CHIP	0.047 μ F 10% 50V	C6587	1-113-924-11	CERAMIC CHIP	.0047 μ F 20% 125V
C5588	1-136-153-00	FILM	0.01 μ F 5% 50V	C6588	1-113-924-11	CERAMIC CHIP	.0047 μ F 20% 125V
C5590	1-163-263-11	CERAMIC CHIP	330pF 5% 50V	C6589	1-113-924-11	CERAMIC CHIP	.0047 μ F 20% 125V
C5592	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V	C6590	1-131-940-11	ELECT	1200 μ F 20% 250V
C5594	1-136-165-00	FILM	0.1 μ F 5% 50V	C6591 \triangle	1-119-899-51	CERAMIC CHIP	1000pF 10% 250V
C5596	1-126-960-11	ELECT	1 μ F 20% 50V	C6594	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
C5598	1-104-664-11	ELECT	47 μ F 20% 16V	C6595	1-104-665-11	ELECT	100 μ F 20% 25V
C5600	1-104-664-11	ELECT	47 μ F 20% 16V	C6596	1-126-960-11	ELECT	1 μ F 20% 50V
C5601	1-136-165-00	FILM	0.1 μ F 5% 50V	C8002	1-136-169-00	FILM	0.22 μ F 5% 50V
C5602	1-104-664-11	ELECT	47 μ F 20% 16V	C8004	1-104-665-11	ELECT	100 μ F 20% 10V
C5603	1-163-017-00	CERAMIC CHIP	.0047 μ F 10% 50V	C8005	1-104-664-11	ELECT	47 μ F 20% 25V
C5605	1-136-177-00	FILM	1 μ F 5% 50V	C8006	1-126-960-11	ELECT	1 μ F 20% 50V
C5607	1-115-185-11	CERAMIC CHIP	0.033 μ F 10% 50V	C8007	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C5609	1-104-665-11	ELECT	100 μ F 20% 25V	C8009	1-126-964-11	ELECT	10 μ F 20% 50V
C5610	1-126-935-11	ELECT	470 μ F 20% 16V	C8011	1-126-961-11	ELECT	2.2 μ F 20% 50V
C5611	1-163-038-11	CERAMIC CHIP	0.1 μ F 25V	C8012	1-126-966-11	ELECT	33 μ F 20% 50V
C5612	1-126-964-11	ELECT	10 μ F 20% 50V	C8013	1-126-964-11	ELECT	10 μ F 20% 50V
C5613	1-115-185-11	CERAMIC CHIP	0.033 μ F 10% 50V	C8014	1-126-964-11	ELECT	10 μ F 20% 50V
C5614	1-126-964-11	ELECT	10 μ F 20% 50V	C8015	1-126-966-11	ELECT	33 μ F 20% 50V
C5616	1-136-165-00	FILM	0.1 μ F 5% 50V	C8016	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C5617	1-104-664-11	ELECT	47 μ F 20% 16V	C8017	1-126-964-11	ELECT	10 μ F 20% 50V
C5618	1-136-171-00	FILM	0.33 μ F 5% 50V	C8018	1-126-964-11	ELECT	10 μ F 20% 50V
C5619	1-163-127-00	CERAMIC CHIP	270pF 5% 50V	C8019	1-104-665-11	ELECT	100 μ F 20% 10V
C5621	1-136-165-00	FILM	0.1 μ F 5% 50V	C8020	1-136-103-00	FILM	0.1 μ F 5% 200V
C5623	1-126-933-11	ELECT	100 μ F 20% 16V	C8021	1-137-150-11	MYLAR	0.01 μ F 5% 50V
C5625	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	C8022	1-126-933-11	ELECT	100 μ F 20% 16V
C5628	1-126-933-11	ELECT	100 μ F 20% 16V	C8023	1-113-611-11	ELECT(BLOCK)	820 μ F 20% 250V
C6503	1-131-940-11	ELECT	1200 μ F 20% 250V	C8024	1-126-967-11	ELECT	47 μ F 20% 50V
C6504	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C8025	1-104-664-11	ELECT	47 μ F 20% 25V
C6507	1-126-967-11	ELECT	47 μ F 20% 50V	C8027	1-130-495-00	MYLAR	0.1 μ F 5% 50V
C6508	1-104-664-11	ELECT	47 μ F 20% 25V	C8028	1-164-161-11	CERAMIC CHIP	0.0022 μ F 10% 50V
C6510	1-130-495-00	MYLAR	0.1 μ F 5% 50V	C8030	1-163-809-11	CERAMIC CHIP	0.047 μ F 10% 25V
C6511	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V	C8031	1-128-551-11	ELECT	22 μ F 20% 25V
C6516	1-163-009-11	CERAMIC CHIP	0.001 μ F 10% 50V	C8032	1-136-813-11	FILM	680pF 2% 50V
C6517	1-126-963-11	ELECT	4.7 μ F 20% 50V	C8033	1-126-964-11	ELECT	10 μ F 20% 50V
C6518	1-136-479-11	FILM	0.001 μ F 2% 50V	C8035	1-125-969-91	CERAMIC CHIP	680pF 10% 1KV
C6519	1-126-964-11	ELECT	10 μ F 20% 50V	C8036	1-125-969-91	CERAMIC CHIP	680pF 10% 1KV
C6525	1-164-143-11	CERAMIC CHIP	0.001 μ F 10% 1KV	C8037	1-135-946-21	FILM	47000pF 3% 800V
C6526	1-164-143-11	CERAMIC CHIP	0.001 μ F 10% 1KV	C8039	1-163-021-91	CERAMIC CHIP	0.01 μ F 10% 50V
C6532	1-135-998-21	FILM	56000pF 3% 800V	C8040	1-126-969-11	ELECT	220 μ F 20% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C8041	1-137-194-81	FILM	0.47μF 5% 50V	D5014	8-719-510-37	DIODE D5LC20U	
C8042	1-136-103-00	FILM	0.1μF 5% 200V	D5015	8-719-302-43	DIODE RGP10GPKG23	
C8045	1-130-471-00	MYLAR	0.001μF 5% 50V	D5016	8-719-920-67	DIODE ERC91-02E	
C8046	1-162-131-11	CERAMIC CHIP	220pF 10% 2KV	D5017	8-719-920-67	DIODE ERC91-02E	
C8047	1-107-444-11	CERAMIC CHIP	100pF 10% 2KV	D5018	8-719-110-41	DIODE MTZJ-T-77-15B	
C8048	1-130-495-00	MYLAR	0.1μF 5% 50V	D5019	8-719-073-01	DIODE MA111-TX	
C8050	1-129-718-61	FILM	0.022μF 5% 630V	D5021	8-719-073-01	DIODE MA111-TX	
C8051	1-126-964-11	ELECT	10μF 20% 50V	D5023	8-719-061-21	DIODE PG124S15	
C8053	1-162-117-00	CERAMIC CHIP	100pF 10% 500V	D5024	8-719-510-02	DIODE D1NS4-TR	
C8054	1-102-244-00	CERAMIC CHIP	220pF 10% 500V	D5025	8-719-510-02	DIODE D1NS4-TR	
C8055	1-136-535-61	FILM	0.0018μF 5% 630V	D5026	8-719-073-01	DIODE MA111-TX	
C8056	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D5027	8-719-073-01	DIODE MA111-TX	
C8058	1-137-194-81	FILM	0.47μF 5% 50V	D5028	8-719-073-01	DIODE MA111-TX	
C8059	1-104-664-11	ELECT	47μF 20% 10V	D5029	8-719-073-01	DIODE MA111-TX	
C8060	1-107-635-11	ELECT	4.7μF 20% 160V	D5031	8-719-977-28	DIODE UDZS-TE17-10B	
C8063	1-136-203-11	MYLAR	0.01μF 10% 630V	D5032	8-719-073-01	DIODE MA111-TX	
C8064	1-137-366-11	MYLAR	0.0022μF 5% 50V	D5501	8-719-073-01	DIODE MA111-TX	
CONNECTOR				D5502	8-719-073-01	DIODE MA111-TX	
*CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P	D5503	8-719-073-01	DIODE MA111-TX	
*CN5003	1-766-242-11	PIN, CONNECTOR (PC BOARD)	4P	D5505	8-719-800-76	DIODE MA153-TX	
*CN5501	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D5506	8-719-073-01	DIODE MA111-TX	
*CN5503	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D5507	8-719-800-76	DIODE MA153-TX	
*CN5505	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P	D5513	8-719-991-33	DIODE 1SS133T-77	
CN5506	1-764-812-11	CONNECTOR, BOARD TO BOARD	11P	D5514	8-719-063-70	DIODE D1NL20U-TA2	
*CN5509	1-564-515-11	PLUG, CONNECTOR	12P	D5515	8-719-063-70	DIODE D1NL20U-TA2	
*CN5510	1-564-506-11	PLUG, CONNECTOR	3P	D5522	8-719-923-78	DIODE MTZJ-T-77-12	
*CN6501	1-766-176-11	PIN, CONNECTOR (PC BOARD)	6P	D5523	8-719-923-78	DIODE MTZJ-T-77-12	
*CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P	D6501	8-719-073-01	DIODE MA111-TX	
*CN6503	1-564-511-11	PLUG, CONNECTOR	8P	D6502	8-719-979-64	DIODE μF4005PKG23	
*CN6504	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D6507	1-216-295-11	SHORT 0	
*CN6505	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D6508	8-719-982-27	DIODE MTZJ-T-77-33C	
*CN6506	1-779-889-11	CONNECTOR, BOARD TO BOARD	8P	D6509	8-719-068-00	DIODE ERC04-06SE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
DIODE				D6510	8-719-068-00	DIODE ERC04-06SE (KV-32XBR400/36XBR400/38DRC1/36XBR400H only)	
D5001	8-719-109-85	DIODE MTZJ-T-77-5.1B		D6513	8-719-500-71	DIODE D8LC40F	
D5002	8-719-908-03	DIODE GP08DPKG23		D6514	8-719-060-89	DIODE D4SBS6-F	
D5003	8-719-920-67	DIODE ERC91-02E		D6515	8-719-060-90	DIODE S2L60F	
D5004	8-719-158-49	DIODE UDZ-TE-17-12B		D6516	8-719-060-89	DIODE D4SBS6-F	
D5005	8-719-073-01	DIODE MA111-TX		D6517	8-719-060-90	DIODE S2L60F	
D5006	8-719-109-72	DIODE MTZJ-T-77-3.9B		D6522	8-719-073-01	DIODE MA111-TX	
D5007	8-719-109-50	DIODE MTZJ-T-77-2.0A		D6530	8-719-022-99	DIODE D6SB60L	
D5008	8-719-073-01	DIODE MA111-TX		D6531	8-719-073-01	DIODE MA111-TX	
D5009	8-719-073-01	DIODE MA111-TX		D6532	8-719-948-45	DIODE ERA22-08TP3	
D5010	8-719-073-01	DIODE MA111-TX		D6533	8-719-073-01	DIODE MA111-TX	
D5011	8-719-109-63	DIODE MTZJ-T-77-3.0B		D6537	8-719-073-01	DIODE MA111-TX	
D5012	8-719-018-82	DIODE RGP02-20EL-6394		D8002	8-719-073-01	DIODE MA111-TX	
D5013	8-719-302-43	DIODE RGP10GPKG23		D8003	8-719-073-01	DIODE MA111-TX	
				D8004	8-719-109-85	DIODE MTZJ-T-77-5.1B	
				D8005	8-719-073-01	DIODE MA111-TX	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D8006	8-719-921-89	DIODE MTZJ-T-77-13C		IC5513	8-759-595-52	IC CXA8070AP	
D8007	8-719-073-01	DIODE MA111-TX		IC5514	8-759-803-42	IC LA6500-FA	
D8009	8-719-073-01	DIODE MA111-TX		IC5515	8-749-016-08	IC STK390-910	
D8010	8-719-052-90	DIODE D1NL40-TA2		IC6501	8-759-670-30	IC MCZ3001D	
D8011	8-719-923-86	DIODE MTZJ-T-77-15		IC6503	8-749-012-13	IC DM-58	
D8012	8-719-923-86	DIODE MTZJ-T-77-15		IC6505	8-749-921-86	IC SE-140N	
D8013	8-719-063-70	DIODE D1NL20U-TA2		IC8001	8-759-981-61	IC NJM2901M-TE2	
D8014	8-719-302-43	DIODE RGP10GPKG23		IC8002	8-759-670-30	IC MCZ3001D	
D8016	8-719-948-45	DIODE ERA22-08TP3		IC8003	8-759-198-31	IC UPC1093J-1-T	
D8017	8-719-948-45	DIODE ERA22-08TP3		IC8004	8-759-701-01	IC NJM2904M(Te2)	
D8018	8-719-052-90	DIODE D1NL40-TA2		CONDUCTOR			
D8019	8-719-110-41	DIODE MTZJ-T-77-15B		JR5006	1-216-295-11	SHORT	0
D8020	8-719-073-01	DIODE MA111-TX		JR5007	1-216-295-11	SHORT	0
D8021	8-719-073-01	DIODE MA111-TX		JR5010	1-216-295-11	SHORT	0
D8022	8-719-073-01	DIODE MA111-TX		JR6501	1-216-295-11	SHORT	0
D8025	8-719-982-26	DIODE MTZJ-T-77-33B		JR8001	1-216-295-11	SHORT	0
D8026	8-719-073-01	DIODE MA111-TX		JR8002	1-216-295-11	SHORT	0
D8027	8-719-073-01	DIODE MA111-TX		JR8003	1-216-295-11	SHORT	0
D8028	8-719-991-33	DIODE 1SS133T-77		JR8004	1-216-295-11	SHORT	0
FERRITE BEAD				JR8005	1-216-295-11	SHORT	0
FB5001	1-410-397-21	FERRITE	1.1μH	JR8006	1-216-295-11	SHORT	0
FB5002	1-543-298-11	FERRITE	0μH	JR8007	1-216-295-11	SHORT	0
FB6501	1-410-397-21	FERRITE	1.1μH	JR8050	1-216-295-11	SHORT	0
FB6502	1-410-396-41	FERRITE	0.45μH	(KV-32XBR400 only)			
FB6504	1-410-397-21	FERRITE	1.1μH	JR8051	1-216-295-11	SHORT	0
FB6505	1-412-911-11	FERRITE	0μH	(KV-36XBR400/38DRC1/36XBR400H only)			
FB6506	1-412-911-11	FERRITE	0μH	JR8052	1-216-295-11	SHORT	0
FB6508	1-410-396-41	FERRITE	0.45μH	(KV-38DRC1C only)			
FB6509	1-410-396-41	FERRITE	0.45μH	COIL			
FB8001	1-410-396-41	FERRITE	0.45μH	L5001	1-406-665-11	INDUCTOR	100μH
IC				L5002	1-406-663-21	INDUCTOR	47μH
IC5001	8-759-701-01	IC NJM2904M(Te2)		L5003	1-406-892-21	INDUCTOR	4MH
IC5002	8-759-700-07	IC NJM2903M-TE2		L5004	1-412-525-31	INDUCTOR	10μH
IC5003	8-759-518-68	IC PQ12RF21		L5005	1-419-181-11	COIL, HORIZONTAL LINEARITY	
IC5004	8-759-192-71	IC STV9379		L5504	1-406-989-21	INDUCTOR	10MH
IC5005	8-759-803-42	IC LA6500-FA		L5505	1-406-989-21	INDUCTOR	10MH
IC5006	8-749-013-76	IC PQ6RD83B		L5601	1-408-612-31	INDUCTOR	56μH
IC5007	8-759-981-61	IC NJM2901M-TE2		L6503	1-412-525-31	INDUCTOR	10μH
IC5008	8-759-675-90	IC BA51W12ST-V5		L6504	1-412-525-31	INDUCTOR	10μH
IC5501	8-759-575-71	IC M24C04-MN6T		L6505	1-406-665-11	INDUCTOR	100μH
IC5502	8-759-981-61	IC NJM2901M-TE2		L8001	1-406-670-11	INDUCTOR	680μH
IC5504	8-759-803-42	IC LA6500-FA		L8002	1-419-658-11	INDUCTOR	107μH
IC5506	8-759-803-42	IC LA6500-FA		L8005	1-406-674-11	INDUCTOR	3.3MH
IC5510	8-759-803-42	IC LA6500-FA					
IC5511	8-752-074-64	IC CXA2026AS					
IC5512	8-759-929-65	IC NJM79M12FA					

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>PHOTO COUPLER</u>				Q5505	1-801-806-11	TRANSISTOR DTC144EKA-T146	
PH6501	8-749-924-35	PHOTO COUPLER ON3171-R		Q5506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
PH6502 \triangle	8-749-924-35	PHOTO COUPLER ON3171-R		Q5507	8-729-931-45	TRANSISTOR IRF614	
PH6503 \triangle	8-749-924-35	PHOTO COUPLER ON3171-R		Q5508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
PH8001	8-749-924-35	PHOTO COUPLER ON3171-R		Q5509	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
<u>IC LINK</u>				Q6503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
PS6501 \triangle	1-576-390-91	LINK, IC		Q6506	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
PS6502 \triangle	1-576-390-91	LINK, IC		Q6507	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
<u>TRANSISTOR</u>				Q6520	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q5001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q6521	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q5002	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q6522	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
Q5003	8-729-015-28	TRANSISTOR IRFI9630G		Q6524	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA	
Q5004	8-729-019-57	TRANSISTOR 2SA1208S-TP		Q6526	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q6527	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q5006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q6528	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5007	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q6529	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5008	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q6530	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5011	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q6531	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5012	8-729-119-80	TRANSISTOR 2SC2688-LK		Q6532	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5013	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q8001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5015	8-729-119-80	TRANSISTOR 2SC2688-LK		Q8003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5016	8-729-119-80	TRANSISTOR 2SC2688-LK		Q8004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5017	8-729-119-80	TRANSISTOR 2SC2688-LK		Q8007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8009	8-729-200-17	TRANSISTOR 2SA1091O-TPE2	
Q5020	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q8010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8013	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q5022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q8014	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q5023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5026	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q8016	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
Q5027	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q8018	8-729-043-95	TRANSISTOR 2SC3840K	
Q5028	8-729-322-27	TRANSISTOR 2SK2182		Q8019	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q5030	8-729-052-71	TRANSISTOR 2SC3997S-SONY-RA		Q8020	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5031	8-729-053-24	TRANSISTOR 2SK3262-01MR		Q8022	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q5033	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX		Q8023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q5034	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		<u>RESISTOR</u>			
Q5035	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5001	1-216-001-00	RES-CHIP	10 5% 1/10W
Q5036	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5002	1-216-033-00	RES-CHIP	220 5% 1/10W
Q5037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5003	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q5501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5004	1-216-099-00	RES-CHIP	120K 5% 1/10W
Q5502	1-801-806-11	TRANSISTOR DTC144EKA-T146		R5005	1-216-033-00	RES-CHIP	220 5% 1/10W
Q5503	1-801-806-11	TRANSISTOR DTC144EKA-T146		R5007	1-216-099-00	RES-CHIP	120K 5% 1/10W
Q5504	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R5008	1-216-073-00	RES-CHIP	10K 5% 1/10W
				R5009	1-216-099-00	RES-CHIP	120K 5% 1/10W
				R5011	1-216-099-00	RES-CHIP	120K 5% 1/10W
				R5012	1-208-814-91	METAL CHIP	22K 0.50% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W	R5070	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5014	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W	R5071	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5016	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5072	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5017	1-208-832-11	METAL CHIP	120K	0.50%	1/10W	R5073	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5074	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5019	1-249-429-11	CARBON	10K	5%	1/4W	R5075	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5020	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	R5076	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5021	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R5077	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
R5022	1-208-816-11	METAL CHIP	27K	0.50%	1/10W	R5078	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5079	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5024	1-216-089-11	RES-CHIP	47K	5%	1/10W	R5080	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5025	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W	R5081	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5026	1-216-049-11	RES-CHIP	1K	5%	1/10W	R5082	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R5083	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R5028	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	R5084	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5029	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R5085	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5030	1-216-295-11	SHORT	0			R5086	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5031	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R5087	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5033	1-216-025-11	RES-CHIP	100	5%	1/10W	R5088	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5036	1-216-085-00	RES-CHIP	33K	5%	1/10W	R5089	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5037	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5090	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5038	1-216-075-00	RES-CHIP	12K	5%	1/10W	R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5039	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5092	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5040	1-216-089-11	RES-CHIP	47K	5%	1/10W	R5093	1-208-807-11	METAL CHIP	11K	0.50%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W	R5094	1-215-869-11	METAL OXIDE	1K	5%	1W
R5042	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5095	1-249-443-11	CARBON	0.47	5%	1/4W
R5043	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R5096	1-249-443-11	CARBON	0.47	5%	1/4W
R5044	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5045	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5046	1-214-798-21	METAL CHIP	1.8	1%	1/2W	R5101	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5047	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5102	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R5048	1-208-802-11	METAL CHIP	6.8K	0.50%	1/10W	R5103	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R5049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5104	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5050	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5105	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5051	1-249-414-11	CARBON	560	5%	1/4W	R5106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5052	1-214-796-00	METAL CHIP	1.5	1%	1/2W	R5107	1-249-401-11	CARBON	47	5%	1/4W
R5053	1-215-890-11	METAL OXIDE	470	5%	2W	R5108	1-208-819-11	METAL CHIP	36K	0.50%	1/10W
R5054	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5109	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R5055	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5110	1-249-401-11	CARBON	47	5%	1/4W
R5056	1-216-105-91	RES-CHIP	220K	5%	1/10W	R5111	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5057	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5112	1-216-033-00	RES-CHIP	220	5%	1/10W
R5058	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5113	1-249-425-11	CARBON	4.7K	5%	1/4W
R5059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5114	1-249-425-11	CARBON	4.7K	5%	1/4W
R5063	1-208-813-11	METAL CHIP	20K	0.50%	1/10W	R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5064	1-218-761-11	METAL CHIP	240K	0.50%	1/10W	R5116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5065	1-218-761-11	METAL CHIP	240K	0.50%	1/10W	R5117	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R5066	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W	R5120	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5067	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	R5121	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5068	1-216-105-91	RES-CHIP	220K	5%	1/10W	R5122	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5069	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5123	1-216-295-11	SHORT	0		



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R5124	1-216-295-11	SHORT	0			R5511	1-216-295-11	SHORT	0		
R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5126	1-216-025-11	RES-CHIP	100	5%	1/10W	R5513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5127	1-215-890-11	METAL OXIDE	470	5%	2W	R5514	1-216-295-11	SHORT	0		
R5128	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5516	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W
R5129	1-216-025-11	RES-CHIP	100	5%	1/10W	R5518	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5130	1-249-401-11	CARBON	47	5%	1/4W	R5519	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5131	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	R5520	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
R5132	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5521	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5133	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5522	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5134	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5523	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5525	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5136	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5137	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5138	1-216-049-11	RES-CHIP	1K	5%	1/10W	R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W	R5529	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5530	1-216-025-11	RES-CHIP	100	5%	1/10W
R5141	1-215-915-11	METAL OXIDE	470	5%	3W	R5531	1-216-001-00	RES-CHIP	10	5%	1/10W
R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W	R5532	1-216-001-00	RES-CHIP	10	5%	1/10W
R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W	R5535	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W	R5536	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W	R5544	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5146	1-216-089-11	RES-CHIP	47K	5%	1/10W	R5545	1-208-818-11	METAL CHIP	33K	0.50%	1/10W
R5147	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W	R5548	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5149	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5554	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5563	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W
R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5564	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5152	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5565	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5153	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5154	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5576	1-249-395-11	CARBON	15	5%	1/4W
R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5577	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R5156	1-216-089-11	RES-CHIP	47K	5%	1/10W	R5578	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5157	1-216-089-11	RES-CHIP	47K	5%	1/10W	R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5581	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5159	1-216-025-11	RES-CHIP	100	5%	1/10W	R5585	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R5160	1-216-025-11	RES-CHIP	100	5%	1/10W	R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5599	1-216-073-00	RES-CHIP	10K	5%	1/10W
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R5615	1-249-395-11	CARBON	15	5%	1/4W
R5164	1-260-288-11	CARBON	0.47	5%	1/2W	R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W	R5645	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5502	1-216-295-11	SHORT	0			R5647	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W	R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5504	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R5649	1-215-886-11	METAL OXIDE	100	5%	2W
R5505	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R5650	1-216-089-11	RES-CHIP	47K	5%	1/10W
R5506	1-216-073-00	RES-CHIP	10K	5%	1/10W	R5657	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R5507	1-216-017-91	RES-CHIP	47	5%	1/10W	R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W
R5508	1-216-025-11	RES-CHIP	100	5%	1/10W	R5669	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
R5509	1-216-025-11	RES-CHIP	100	5%	1/10W	R5670	1-208-820-11	METAL CHIP	39K	0.50%	1/10W
R5510	1-216-025-11	RES-CHIP	100	5%	1/10W	R5672	1-216-109-00	RES-CHIP	330K	5%	1/10W



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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5678	1-208-804-11	METAL CHIP	8.2K 0.50% 1/10W	R6522	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5679	1-249-395-11	CARBON	15 5% 1/4W	R6523	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5680	1-249-383-11	CARBON	1.5 5% 1/4W	R6524	1-216-295-11	SHORT	0
R5684	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W	R6525	1-216-041-00	RES-CHIP	470 5% 1/10W
R5685	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R6526	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R5686	1-208-778-11	METAL CHIP	680 0.50% 1/10W	R6527	1-216-093-91	RES-CHIP	68K 5% 1/10W
R5688	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R6528	1-216-025-11	RES-CHIP	100 5% 1/10W
R5689	1-216-017-91	RES-CHIP	47 5% 1/10W	R6529	1-249-393-11	CARBON	10 5% 1/4W
R5690	1-216-017-91	RES-CHIP	47 5% 1/10W	R6530	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5692	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R6531	1-249-393-11	CARBON	10 5% 1/4W
R5693	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W	R6532	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5694	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W	R6533	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5696	1-208-804-11	METAL CHIP	8.2K 0.50% 1/10W	R6534	1-216-085-00	RES-CHIP	33K 5% 1/10W
R5697	1-208-764-11	METAL CHIP	180 0.50% 1/10W	R6535	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5698	1-208-801-11	METAL CHIP	6.2K 0.50% 1/10W	R6536	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5699	1-216-081-00	RES-CHIP	22K 5% 1/10W	R6537	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5700	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R6538	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5702	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R6539	1-215-900-11	METAL OXIDE	22K 5% 2W
R5704	1-214-657-11	METAL CHIP	1 1% 1/4W	R6540	1-216-049-11	RES-CHIP	1K 5% 1/10W
R5705	1-214-657-11	METAL CHIP	1 1% 1/4W	R6541	1-216-077-91	RES-CHIP	15K 5% 1/10W
R5707	1-216-017-91	RES-CHIP	47 5% 1/10W	R6542	1-216-049-11	RES-CHIP	1K 5% 1/10W
R5708	1-216-429-00	METAL OXIDE	270 5% 1W	R6543	1-208-842-11	METAL CHIP	330K 0.50% 1/10W
R5709	1-216-017-91	RES-CHIP	47 5% 1/10W	R6544	1-216-295-11	SHORT	0
R5710	1-216-429-00	METAL OXIDE	270 5% 1W	R6547	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R5711	1-260-288-11	CARBON	0.47 5% 1/2W	R6550	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R5712	1-260-288-11	CARBON	0.47 5% 1/2W	R6552	1-216-081-00	RES-CHIP	22K 5% 1/10W
R5713	1-215-867-00	METAL OXIDE	470 5% 1W	R6553	1-216-109-00	RES-CHIP	330K 5% 1/10W
R5714	1-216-097-11	RES-CHIP	100K 5% 1/10W	R6556	1-217-625-00	METAL CHIP	0.05 10% 2W
R5715	1-216-097-11	RES-CHIP	100K 5% 1/10W	R6557	1-216-097-11	RES-CHIP	100K 5% 1/10W
R5716	1-216-049-11	RES-CHIP	1K 5% 1/10W	R6583	1-216-077-91	RES-CHIP	15K 5% 1/10W
R5717	1-216-093-91	RES-CHIP	68K 5% 1/10W	R6590	1-249-415-11	CARBON	680 5% 1/4W
R6501	1-208-757-11	METAL CHIP	91 0.50% 1/10W	R6591	1-216-341-11	METAL OXIDE	0.22 5% 1W
R6502	1-260-131-11	CARBON	470K 5% 1/2W	R6593	1-249-405-11	CARBON	100 5% 1/4W
R6503	1-208-758-11	METAL CHIP	100 0.50% 1/10W	R6596	1-215-445-00	METAL CHIP	10K 1% 1/4W
R6504	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6597	1-215-469-00	METAL CHIP	100K 1% 1/4W
R6506	1-249-377-11	CARBON	0.47 5% 1/4W	R6598	1-216-342-21	METAL OXIDE	0.27 5% 1W
R6507	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6599	1-249-417-11	CARBON	1K 5% 1/4W
R6508	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6600	1-215-445-00	METAL CHIP	10K 1% 1/4W
R6509	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R6602	1-216-049-11	RES-CHIP	1K 5% 1/10W
R6510	1-215-859-00	METAL OXIDE	22 5% 1W	R6603	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6511	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6604	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6512	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6605	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6513	1-215-481-00	METAL CHIP	330K 1% 1/4W	R6612	1-216-089-11	RES-CHIP	47K 5% 1/10W
R6514	1-215-481-00	METAL CHIP	330K 1% 1/4W	R6614	1-260-298-51	CARBON	3.3 5% 1/2W
R6515	1-260-131-11	CARBON	470K 5% 1/2W	R6646	1-215-481-00	METAL CHIP	330K 1% 1/4W
R6516 \triangle	1-202-962-11	CEMENTED	3.3 5% 10W	R8001	1-216-073-00	RES-CHIP	10K 5% 1/10W
R6517	1-208-804-11	METAL CHIP	8.2K 0.50% 1/10W	R8002	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R6518	1-208-810-11	METAL CHIP	15K 0.50% 1/10W	R8003	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6519	1-216-295-11	SHORT	0	R8004	1-216-081-00	RES-CHIP	22K 5% 1/10W
R6521	1-260-328-11	CARBON	1K 5% 1/2W	R8005	1-216-081-00	RES-CHIP	22K 5% 1/10W

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


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






REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R8006	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8063	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8007	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8065	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8008	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8068	1-216-295-11	SHORT	0		
R8010	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8069	1-249-419-11	CARBON	1.5K	5%	1/4W
R8011	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8070	1-217-611-00	METAL CHIP	0.1	10%	2W
R8013	1-216-295-11	SHORT	0			R8071	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8016	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R8072	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R8017	1-216-295-11	SHORT	0			R8073	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R8018	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8074	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R8019	1-216-089-11	RES-CHIP	47K	5%	1/10W	R8077	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8020	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8078	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8021	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8080	1-249-431-11	CARBON	15K	5%	1/4W
R8022	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8081	1-249-377-11	CARBON	0.47	5%	1/4W
R8023	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8082	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R8024	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8085	1-219-749-91	CARBON	10K	5%	1/2W
R8025	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R8086	1-219-746-11	CARBON	1K	5%	1/2W
R8026	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8087	1-216-295-11	SHORT	0		
R8027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R8089	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8028	1-208-810-11	METAL CHIP	15K	0.50%	1/10W	R8091	1-215-485-00	METAL CHIP	470K	1%	1/4W
R8029	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8030	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	R8095	1-215-485-00	METAL CHIP	470K	1%	1/4W
R8031	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	R8096	1-216-295-11	SHORT	0		
R8032	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8098	1-249-441-11	CARBON	100K	5%	1/4W
R8033	1-208-781-11	METAL CHIP	910	0.50%	1/10W	R8099	1-249-441-11	CARBON	100K	5%	1/4W
R8034	1-216-091-00	RES-CHIP	56K	5%	1/10W	R8100	1-249-441-11	CARBON	100K	5%	1/4W
R8035 \triangle	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8036 \triangle	1-215-444-00	METAL CHIP	9.1K	1%	1/4W	R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8037 \triangle	1-215-444-00	METAL CHIP	9.1K	1%	1/4W	R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8038 \triangle	1-215-444-00	METAL CHIP	9.1K	1%	1/4W	R8104	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8039 \triangle	1-215-444-00	METAL CHIP	9.1K	1%	1/4W	R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8040 \triangle	1-215-444-00	METAL CHIP	9.1K	1%	1/4W	R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8041	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8042	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8043	1-216-349-00	METAL OXIDE	1	5%	1W	R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8044	1-208-837-11	METAL CHIP	200K	0.50%	1/10W	R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W	R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8049	1-208-758-11	METAL CHIP	100	0.50%	1/10W	R8116	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8050	1-211-964-11	METAL CHIP	33	0.50%	1/10W	R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8051	1-220-926-11	FUSIBLE	0.47	10%	1/2W	R8118	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8053	1-208-842-11	METAL CHIP	330K	0.50%	1/10W	R8119	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8054	1-208-842-11	METAL CHIP	330K	0.50%	1/10W	R8123	1-216-025-11	RES-CHIP	100	5%	1/10W
R8055	1-208-842-11	METAL CHIP	330K	0.50%	1/10W	R8124	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8056	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	R8125	1-216-001-00	RES-CHIP	10	5%	1/10W
R8057	1-208-809-11	METAL CHIP	13K	0.50%	1/10W	R8126	1-216-001-00	RES-CHIP	10	5%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W	R8137	1-249-417-11	CARBON	1K	5%	1/4W
R8059	1-216-295-11	SHORT	0			R8144	1-216-025-11	RES-CHIP	100	5%	1/10W
R8060	1-208-774-11	METAL CHIP	470	0.50%	1/10W	R8145	1-216-025-11	RES-CHIP	100	5%	1/10W
R8061	1-249-393-11	CARBON	10	5%	1/4W	R8146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8062	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8147	1-208-826-11	METAL CHIP	68K	0.50%	1/10W



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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R8148	1-208-826-11	METAL CHIP	68K 0.50% 1/10W	DIODE			
R8149	1-208-822-11	METAL CHIP	47K 0.50% 1/10W	D01	8-719-074-84	DIODE LNK0120022G1	
R8150	1-216-091-00	RES-CHIP	56K 5% 1/10W	D02	8-719-074-84	DIODE LNK0120022G1	
R8151	1-216-091-00	RES-CHIP	56K 5% 1/10W	D07	8-719-109-89	DIODE RD5.6ES-T1B2	
R8152	1-216-091-00	RES-CHIP	56K 5% 1/10W	IC			
R8199	1-249-389-11	CARBON	4.7 5% 1/4W	IC01	8-742-205-20	HYB IC SBX3081-01(20)	
VARIABLE RESISTOR				RESISTOR			
 RV8001 \triangle	1-241-767-21	RES, ADJ, CERMET	100K	R03	1-249-429-11	CARBON	10K 5% 1/4W
 RV8002 \triangle	1-241-763-11	RES, ADJ, CERMET	4.7K	R04	1-249-385-11	CARBON	2.2 5% 1/4W
 RV8003 \triangle	1-241-764-11	RES, ADJ, CERMET	10K	R05	1-247-807-31	CARBON	100 5% 1/4W
RELAY				R07	1-249-409-11	CARBON	220 5% 1/4W
RY6501 \triangle	1-755-395-11	RELAY (AC POWER)		R08	1-249-409-11	CARBON	220 5% 1/4W
RY6502 \triangle	1-755-214-11	RELAY, AC POWER		R09	1-249-433-11	CARBON	22K 5% 1/4W
SPARK GAP				R12	1-215-445-00	METAL CHIP	10K 1% 1/4W
SG8002	1-517-499-21	GAP, SPARK		R14	1-215-437-00	METAL CHIP	4.7K 1% 1/4W
SG8005	1-517-499-21	GAP, SPARK		R15	1-215-431-00	METAL CHIP	2.7K 1% 1/4W
TRANSFORMER				R16	1-215-427-00	METAL CHIP	1.8K 1% 1/4W
T5001	1-435-621-11	TRANSFORMER, HORIZONTAL OUTPUT		R17	1-215-425-00	METAL CHIP	1.5K 1% 1/4W
T5002	1-435-636-11	TRANSFORMER, HORIZONTAL DRIVE		R18	1-215-421-00	METAL CHIP	1K 1% 1/4W
T6501 \triangle	1-435-576-12	TRANSFORMER, CONVERTER (PIT)		R19	1-215-419-00	METAL CHIP	820 1% 1/4W
T8001 \triangle	1-453-346-11	FBT ASSY NX-6000//J1J4		R20	1-215-415-00	METAL CHIP	560 1% 1/4W
T8002	1-433-934-11	TRANSFORMER, FERRITE (DFT)		R21	1-215-413-00	METAL CHIP	470 1% 1/4W
THERMISTOR				R22	1-215-413-00	METAL CHIP	470 1% 1/4W
TH5001	1-800-193-00	THERMISTOR		SWITCH			
TH5002	1-807-796-11	THERMISTOR		S01	1-571-032-11	SWITCH PUSH (1 KEY)	
HA				S02	1-762-837-11	SWITCH TACTILE	
*	A-1372-834-A	HA BOARD, MOUNTED		S03	1-762-837-11	SWITCH TACTILE	
CAPACITOR				S04	1-762-837-11	SWITCH TACTILE	
C05	1-126-964-11	ELECT	10 μ F 20% 50V	S05	1-762-837-11	SWITCH TACTILE	
CONNECTOR				S06	1-692-431-21	SWITCH TACTILE	
*CN01	1-564-515-11	PLUG, CONNECTOR	12P	S07	1-692-431-21	SWITCH TACTILE	
HB				S08	1-692-431-21	SWITCH TACTILE	
*	A-1372-904-A	HB (COM) BOARD, MOUNTED		S09	1-692-431-21	SWITCH TACTILE	
				S10	1-692-431-21	SWITCH TACTILE	
				S11	1-692-431-21	SWITCH TACTILE	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>CAPACITOR</u>							
C4504	1-126-964-11	ELECT	10μF 20% 50V	C2411	1-126-926-11	ELECT	1000μF 20% 10V
C4505	1-126-964-11	ELECT	10μF 20% 50V	C2412	1-126-964-11	ELECT	10μF 20% 50V
				C2413	1-126-964-11	ELECT	10μF 20% 50V
				C2414	1-126-791-11	ELECT	10μF 20% 16V
				C2415	1-126-964-11	ELECT	10μF 20% 50V
<u>CONNECTOR</u>				<u>CONNECTOR</u>			
CN4503	1-764-334-11	PLUG, CONNECTOR	11P	*CN2401	1-785-303-11	CONNECTOR, DIN (PLUG)	64P
<u>DIODE</u>				<u>DIODE</u>			
D4503	8-719-977-28	DIODE UDZS-TE17-10B		D2401	8-719-977-28	DIODE UDZS-TE17-10B	
D4505	8-719-977-28	DIODE UDZS-TE17-10B		D2402	8-719-977-28	DIODE UDZS-TE17-10B	
D4506	8-719-977-28	DIODE UDZS-TE17-10B		D2403	8-719-977-28	DIODE UDZS-TE17-10B	
				D2405	8-719-977-28	DIODE UDZS-TE17-10B	
				D2406	8-719-977-28	DIODE UDZS-TE17-10B	
<u>FILTER</u>				D2407	8-719-977-28	DIODE UDZS-TE17-10B	
FL4501	1-239-583-21	FILTER, EMI		D2409	8-719-977-28	DIODE UDZS-TE17-10B	
FL4502	1-239-583-21	FILTER, EMI		D2410	8-719-800-76	DIODE MA153-TX	
FL4503	1-239-583-21	FILTER, EMI		D2411	8-719-977-28	DIODE UDZS-TE17-10B	
				D2412	8-719-800-76	DIODE MA153-TX	
<u>JACK</u>				D2413	8-719-800-76	DIODE MA153-TX	
J4501	1-770-053-11	TERMINAL BLOCK, S (LIGHT ANGLE)		D2414	8-719-800-76	DIODE MA153-TX	
				D2415	8-719-800-76	DIODE MA153-TX	
<u>RESISTOR</u>				D2416	8-719-800-76	DIODE MA153-TX	
R4506	1-216-113-00	RES-CHIP	470K 5% 1/10W	D2423	8-719-800-76	DIODE MA153-TX	
R4507	1-216-113-00	RES-CHIP	470K 5% 1/10W	D2424	8-719-800-76	DIODE MA153-TX	
R4509	1-216-049-11	RES-CHIP	1K 5% 1/10W	D2425	8-719-800-76	DIODE MA153-TX	
R4511	1-216-295-11	SHORT	0	D2426	8-719-800-76	DIODE MA153-TX	
R4512	1-216-295-11	SHORT	0	D2427	8-719-800-76	DIODE MA153-TX	
R4513	1-216-295-11	SHORT	0	D2428	8-719-800-76	DIODE MA153-TX	
				D2429	8-719-977-28	DIODE UDZS-TE17-10B	
				D2430	8-719-977-28	DIODE UDZS-TE17-10B	
				D2431	8-719-977-28	DIODE UDZS-TE17-10B	
				D2432	8-719-977-28	DIODE UDZS-TE17-10B	
				D2433	8-719-977-28	DIODE UDZS-TE17-10B	
				D2434	8-719-977-28	DIODE UDZS-TE17-10B	
				<u>JACK</u>			
				J2401	1-573-967-12	BLOCK, (S) TERMINAL	
				J2402	1-750-517-11	JACK BLOCK, PIN 3P	
				J2403	1-750-517-11	JACK BLOCK, PIN 3P	
				J2405	1-764-143-11	JACK	
				J2406	1-764-143-11	JACK	
				J2407	1-774-358-11	JACK BLOCK, PIN	
				J2408	1-774-358-11	JACK BLOCK, PIN	
				J2409	1-750-516-11	JACK BLOCK, PIN 2P	



* A-1373-817-A U (COM) BOARD, MOUNTED

CAPACITOR

C2405	1-126-964-11	ELECT	10μF	20%	50V
C2406	1-126-791-11	ELECT	10μF	20%	16V
C2407	1-126-964-11	ELECT	10μF	20%	50V
C2408	1-126-791-11	ELECT	10μF	20%	16V
C2409	1-126-964-11	ELECT	10μF	20%	50V
C2410	1-126-964-11	ELECT	10μF	20%	50V



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
RESISTOR						DIODE					
R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W	D4101	8-719-914-43	DIODE DAN202K-T-146			
R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W	D4102	8-719-914-44	DIODE DAP202K-T-146			
R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC					
R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4101	8-759-686-15	IC NJM2180M	(TE2)		
R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4102	8-759-711-10	IC NJU4066BM-T1			
R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4103	8-752-058-68	IC CXA1315M-T4			
R2430	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2431	1-216-113-00	RES-CHIP	470K	5%	1/10W	COIL					
R2432	1-216-113-00	RES-CHIP	470K	5%	1/10W	L4101	1-408-607-31	INDUCTOR	22μH		
R2433	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2434	1-216-021-00	RES-CHIP	68	5%	1/10W						
R2435	1-216-295-11	SHORT	0								
R2436	1-216-295-11	SHORT	0								
						RESISTOR					
						R4101	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
						R4102	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
						R4103	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
						R4104	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
						R4105	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4106	1-216-097-11	RES-CHIP	100K	5%	1/10W
						R4107	1-216-097-11	RES-CHIP	100K	5%	1/10W
						R4108	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
						R4109	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
						R4110	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
						R4111	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4112	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R4113	1-216-091-00	RES-CHIP	56K	5%	1/10W
						R4114	1-216-295-11	SHORT	0		
						R4115	1-216-295-11	SHORT	0		
						R4116	1-216-089-11	RES-CHIP	47K	5%	1/10W
						R4117	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R4118	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
						R4119	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R4120	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4121	1-216-077-91	RES-CHIP	15K	5%	1/10W
						R4123	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4124	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R4125	1-216-101-00	RES-CHIP	150K	5%	1/10W
						R4126	1-216-081-00	RES-CHIP	22K	5%	1/10W
						R4127	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4128	1-216-091-00	RES-CHIP	56K	5%	1/10W
						R4129	1-216-073-00	RES-CHIP	10K	5%	1/10W
						R4130	1-216-053-00	RES-CHIP	1.5K	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK
R4131	1-216-129-00	RES-CHIP 2.2M 5%	1/10W
R4132	1-216-085-00	RES-CHIP 33K 5%	1/10W
R4133	1-216-092-00	RES-CHIP 62K 5%	1/10W
R4134	1-216-073-00	RES-CHIP 10K 5%	1/10W
R4135	1-216-017-91	RES-CHIP 47 5%	1/10W
R4136	1-216-017-91	RES-CHIP 47 5%	1/10W



* A-1372-833-A W BOARD, MOUNTED
4-382-854-01 SCREW (M3X8), P, SW (+)

CAPACITOR

C9101	1-107-364-11	MYLAR 0.01μF 10%	200V
C9102	1-107-364-11	MYLAR 0.01μF 10%	200V
C9103	1-163-009-11	CERAMIC CHIP 0.001μF 10%	50V
C9104	1-163-009-11	CERAMIC CHIP 0.001μF 10%	50V
C9105	1-104-999-11	MYLAR 0.1μF 10%	200V
C9106	1-107-667-11	ELECT 2.2μF 20%	160V
C9107	1-126-935-11	ELECT 470μF 20%	16V
C9108	1-126-935-11	ELECT 470μF 20%	16V
C9109	1-107-963-11	ELECT 33μF 20%	160V
C9112	1-126-933-11	ELECT 100μF 20%	16V
C9113	1-126-933-11	ELECT 100μF 20%	16V
C9115	1-126-935-11	ELECT 470μF 20%	6.3V
C9116	1-126-935-11	ELECT 470μF 20%	6.3V
C9117	1-104-999-11	MYLAR 0.1μF 10%	200V

CONNECTOR

*CN9101	1-564-506-11	PLUG, CONNECTOR 3P
*CN9102	1-564-515-11	PLUG, CONNECTOR 12P
*CN9103	1-564-506-11	PLUG, CONNECTOR 3P
*CN9104	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P

DIODE

D9101	8-719-924-11	DIODE MTZJ-T-77-22
D9102	8-719-924-11	DIODE MTZJ-T-77-22
D9103	8-719-073-01	DIODE MA111-TX
D9104	8-719-073-01	DIODE MA111-TX
D9105	8-719-073-01	DIODE MA111-TX
D9106	8-719-073-01	DIODE MA111-TX
D9107	8-719-510-02	DIODE D1NS4-TR

REF.NO.	PART NO.	DESCRIPTION	REMARK
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COIL

L9101	1-412-525-31	INDUCTOR 10μH
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TRANSISTOR

Q9101	8-729-045-05	TRANSISTOR 2SA2005
Q9102	8-729-045-04	TRANSISTOR 2SC5511
Q9103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
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

R9102	1-249-414-11	CARBON	560	5%	1/4W
R9103	1-249-432-11	CARBON	18K	5%	1/4W
R9104	1-249-432-11	CARBON	18K	5%	1/4W
R9105	1-249-414-11	CARBON	560	5%	1/4W
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W
R9108	1-260-316-51	CARBON	100	5%	1/2W
R9109	1-249-385-11	CARBON	2.2	5%	1/4W
R9110	1-249-385-11	CARBON	2.2	5%	1/4W
R9111	1-249-405-11	CARBON	100	5%	1/4W
R9112	1-215-915-11	METAL OXIDE	470	5%	3W
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W
R9114	1-249-425-11	CARBON	4.7K	5%	1/4W
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	1-216-295-11	SHORT	0		

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<u>ACCESSORIES AND PACKING MATERIALS</u>							
*	4-041-259-01	BAG, PROTECTION (KV-32XBR400 only)					
*	4-066-646-02	BAG, PROTECTION (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
*	4-075-743-03	CARTON, INDIVIDUAL (KV-32XBR400 only)					
*	4-076-526-02	CARTON, INDIVIDUAL (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
*	4-075-733-03	CUSHION ASSY, UPPER (REAR) (KV-32XBR400 only)					
*	4-075-734-02	CUSHION ASSY, UPPER (KV-32XBR400 only)					
*	4-076-522-02	CUSHION ASSY, UPPER (FRONT) (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
*	4-075-735-03	CUSHION ASSY, LOWER (KV-32XBR400 only)					
	4-076-523-01	CUSHION ASSY, LOWER (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)					
	4-075-727-21	MANUAL, INSTRUCTION (KV-32XBR400(U/C)/36XBR400(U/C) only)					
	4-075-727-31	MANUAL, INSTRUCTION (KV-32XBR400(CND)/36XBR400(CND) only)					
	4-077-337-41	MANUAL, INSTRUCTION (KV-38DRC1/38DRC1C only)					
<u>REMOTE COMMANDER</u>							
	1-476-094-12	REMOTE COMMANDER (RM-Y174)					
	4-978-977-01	BATTERY COVER (for RM-Y174)					

NOTES:

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES:

[illegible]

SERVICE MANUAL

DX-1A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST</u>	<u>CHASSIS NO.</u>
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
KV-36XBR400H	RM-Y174	HAWAII	SCC-S54A-A

SUPPLEMENT-1

**Subject: New Critical Classification on the D Board;
Corrected Electrical Parts List**

**Correct the service manual as shown below.
File this correction with the service manual.**

 : **Corrected Portion**

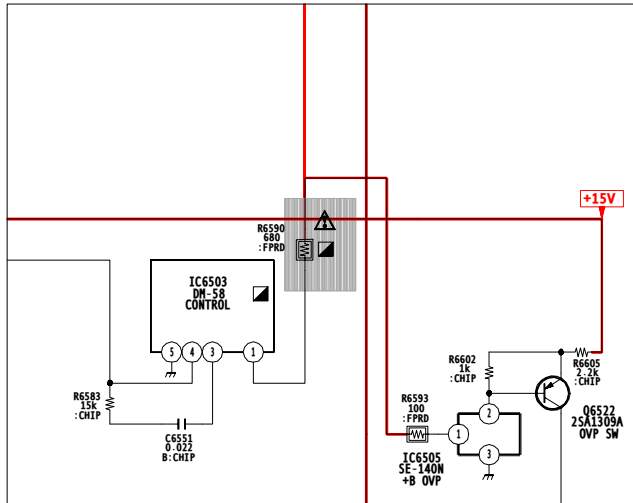
Section 6: Diagrams (D Board (1/3) - Page 69)

Section 8: Electrical Parts List (Page 108 & 112)

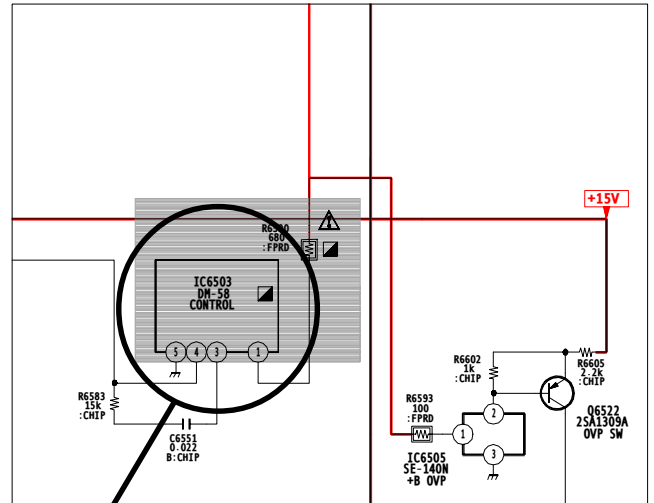
TRINITRON® COLOR TV
SONY®

Section 6: Diagrams (D Board (1/3) - Page 69)

Incorrect



Correct



Section 8: Electrical Parts List (Page 108 & 112)

Incorrect

REF.NO.	PART NO.	DESCRIPTION	REMARK
R6590	1-249-415-11	CARBON 680	5% 1/4W
IC6503	8-749-012-13	IC DM-58	

Correct

REF.NO.	PART NO.	DESCRIPTION	REMARK
R6590△	1-249-415-11	CARBON 680	5% 1/4W
IC6503△	8-749-012-13	IC DM-58	

SERVICE MANUAL

DX-1A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST</u>	<u>CHASSIS NO.</u>
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
KV-36XBR400H	RM-Y174	HAWAII	SCC-S54A-A

SUPPLEMENT-2

**Subject: Revised Exploded View (Picture Tube)
Critical Part Identified (Chassis)**


**Correct the service manual as shown below.
File this correction with the service manual.**

 : Corrected Portion

Section 7-1: Exploded Views - Chassis (Page 76)

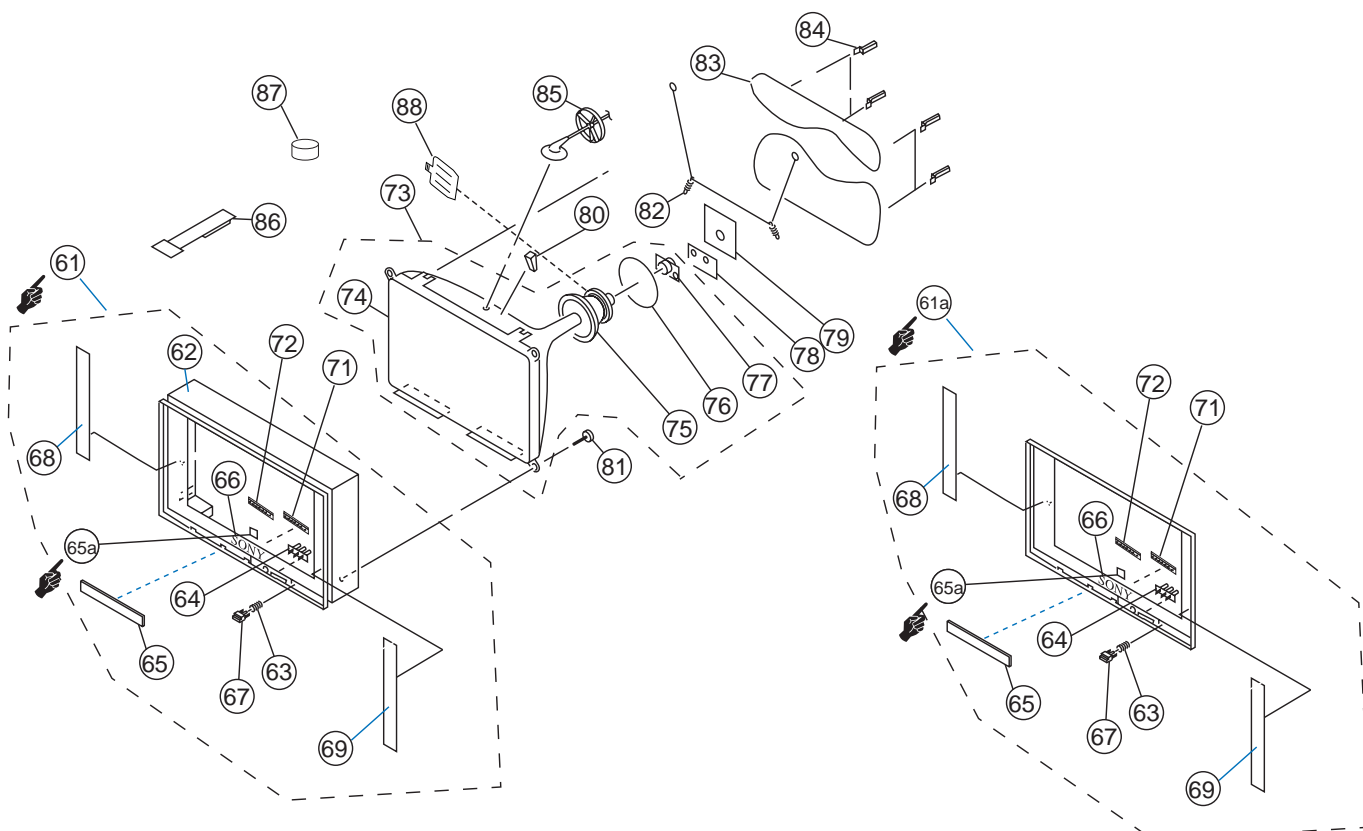
Section 7-2: Exploded Views - Picture Tube (Page 78)

7-1: Exploded Views - Chassis (Page 76)

Incorrect				Correct			
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*15	4-075-829-01	BRACKET, U		*15 	4-075-829-01	BRACKET, U (Antenna Terminal Board)	

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Section 7-2: EXPLODED VIEW - PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK
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61	A-1017-235-A	BEZNET COMPLETE ASSY (KV-32XBR400 only)	(62-69)
61	A-1017-236-A	BEZNET COMPLETE ASSY (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	(62-69)
61a	A-1017-297-A	BEZEL COMPLETE ASSY (KV-32XBR400 only)	(63-69)
61a	A-1017-298-A	BEZEL COMPLETE ASSY (KV-36XBR400/38DRC1/38DRC1C/36XBR400H only)	(63-69)
62		CABINET	
63	4-042-593-11 *	SPRING, COMPRESSION	
64	4-075-823-01	GUIDE, LED	
65	4-075-822-11	DOOR, PAINTED	
65a	4-076-673-02	DAMPER, DOOR	
66	3-704-179-81	EMBLEM (NO.9), SONY	
67	4-075-824-11	BUTTON, POWER, PAINTED	
68		GRILL, SPEAKER (L)	
69		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)
73	8-735-081-62 △	ITC 38RSN-C1M (A1597346A) (KV-38DRC1/36XBR400H only)	(74-77)
73	8-735-080-63 △	ITC 38RSN-C1E (A15974345A) (KV-38DRC1 only)	(74-77)

REF.NO.	PART NO.	DESCRIPTION	REMARK
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74	8-735-047-05 △	CRT 34RSN (A80LPD80X) (KV-32XBR400 only)	
75	8-451-512-21 △	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	1-416-828-41 △	COIL, DEGAUSSING (KV-36XBR400/38DRC1/36XBR400H 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	
87	1-452-885-11	MAGNET, LANDING	
88	4-057-714-01	PIECE, TLH CONVERGENCE (KV-32XBR400 only)	