

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

DX-1A CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KV-38DRC2	RM-Y184	E	SCC-S49C-A
KV-38DRC2C	RM-Y184	E	SCC-S49D-A

ORIGINAL MANUAL ISSUE DATE: 6/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

<u>REVISION DATE</u>	<u>REVISION TYPE</u>	<u>SUBJECT</u>
6/2001	No revisions or updates are applicable at this time.	

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KV-38DRC2



RM-Y184

TRINITRON® COLOR TELEVISION
SONY®

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SPECIFICATIONS

	KV-38DRC2 120V, 60 Hz	KV-38DRC2C 220V, 50 Hz
Power requirements		
Number of inputs/outputs		
Video ¹⁾		4
S Video ²⁾		3
Audio ³⁾		6
Audio Out ⁴⁾		1
Y, P _B , P _R ⁵⁾		2
Monitor Out		1
Control-S (in/out)		YES
Speaker output(W)		7.5W x 4
Power Consumption(W)		
In use(Max)		245W
In standby		2W
Dimensions(W/H/D)		
(mm)		994 x 754.5 x 622 mm
(in)		39 ⁹ / ₆₄ x 29 ⁴⁵ / ₆₄ x 24 ¹ / ₂ in
Mass		
(kg)		108 kg
(lbs)		238 lbs.

- 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: Vp-p, 75 ohms
 4) 500 mVrms (100% modulation), Impedance: 47 kilohms
 5) More than 408 mVrms at the maximum volume setting (variable)
 More than 408 mVrms (fix)

Television system

American TV standard, NTSC

Channel coverage

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

Picture tube

FD Trinitron[®] tube

Visible screen size

36-inch picture measured diagonally

Actual screen size

38-inch measured diagonally

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y184

Two Size AA (R6) Batteries

Optional Accessories

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

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

U/V mixer: EAC-66

TV Stand: S U-36XBR45

XBR
TruSurround[™]
 by SRS (SRS)

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● SRS (SOUND RETRIEVAL SYSTEM)

The ● SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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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 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!!

Après avoir déconnecté le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au châssis métallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.



ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifiés par une trame et par une marque  sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

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).

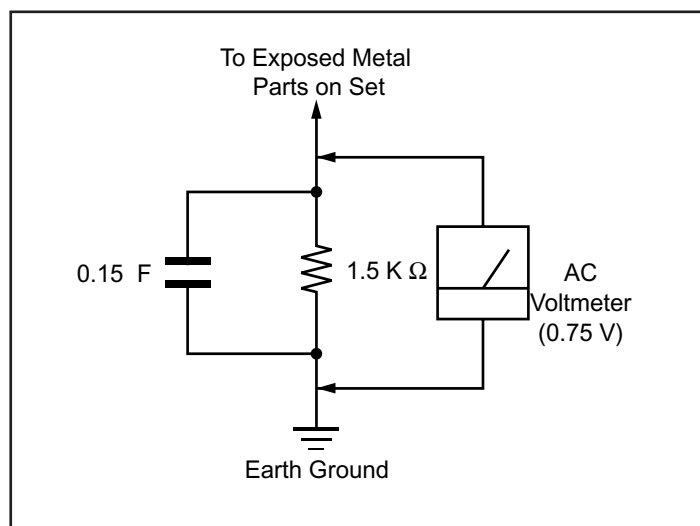


Figure A. Using an AC voltmeter to check AC leakage.

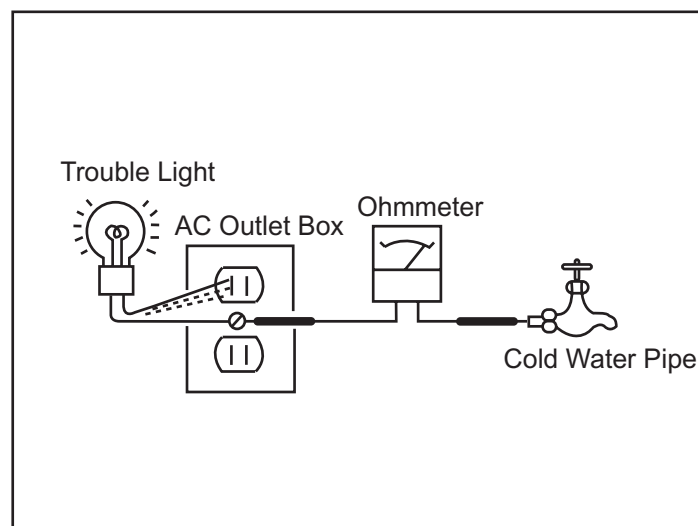


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

Self Diagnosis
Supported model

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.

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

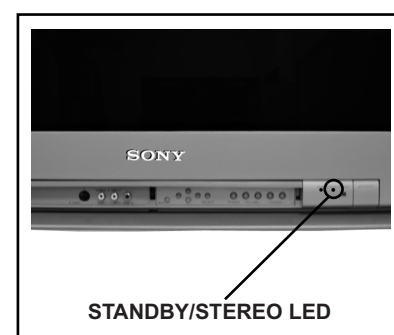
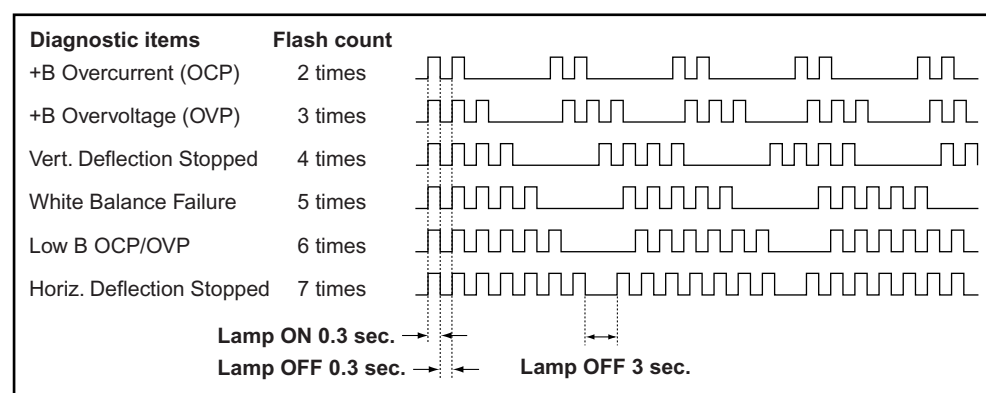
Diagnostic Item	No. of times STANDBY/STEREO lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		<ul style="list-style-type: none"> Power cord is not plugged in. Fuse is burned out F6001 (A Board). 	<ul style="list-style-type: none"> Power does 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.
+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"> $\pm 15V$ is not supplied (D Board). IC5004 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.
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). 	<ul style="list-style-type: none"> No picture.
Horizontal Deflection Stopped	7 times	7:0 or 7:1		<ul style="list-style-type: none"> 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 2-5. of this manual.

Note 3: If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

Display of STANDBY/STEREO LED Flash Count



* 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 LAMP from flashing.

Self-Diagnostic Screen Display

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

To Bring Up Screen Test

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

DISPLAY ➡ Channel **5** ➡ Sound volume **0** ➡ Power ON.

SELF DIAGNOSIS

2: +B OCP	N/A
3: +B OVP	N/A
4: V STOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

Numerical "0" means that no fault was detected.

Numerical "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

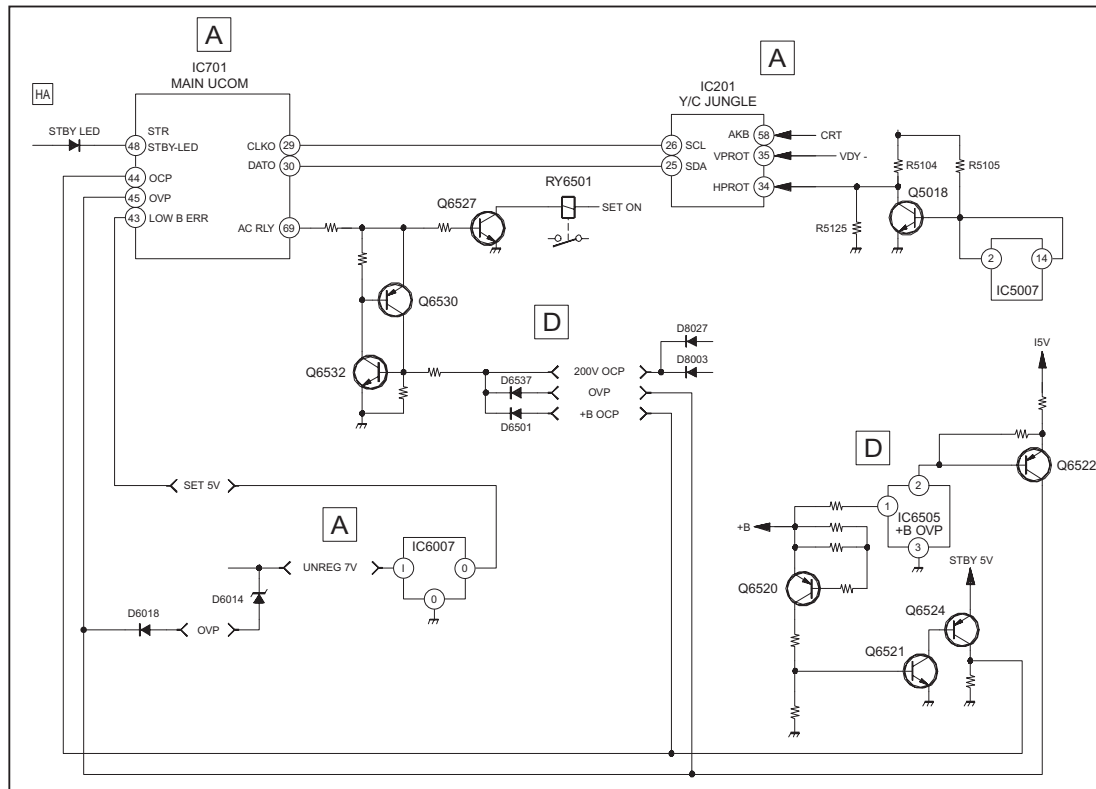
To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

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 7.5 V) 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. TV will stay on, but there will be no picture.

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

Low B OCP/OVP Error

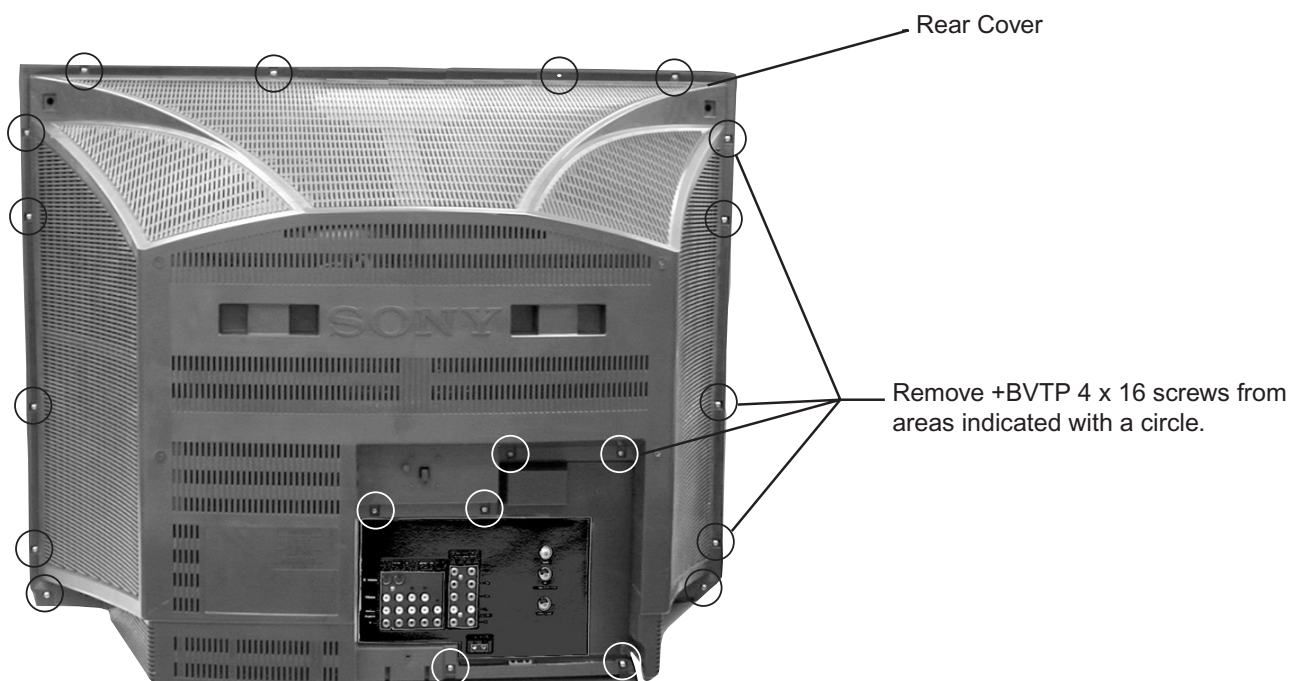
Occurs when set 5V is out.

Horizontal Deflection Stopped

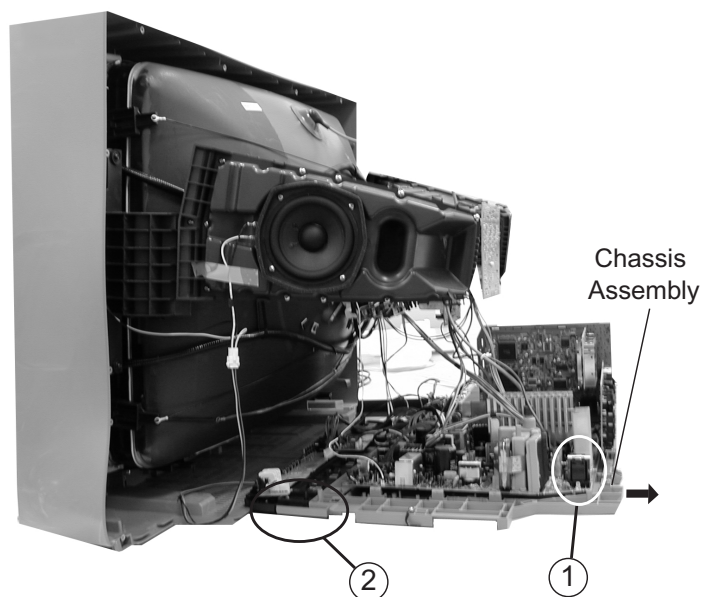
Occurs when either: 1) a +B overcurrent is detected (IC5007), or 2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL



1-2. CHASSIS ASSEMBLY REMOVAL



- ① **CAUTION!** - Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
- ② Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.

1-3. SERVICE POSITION

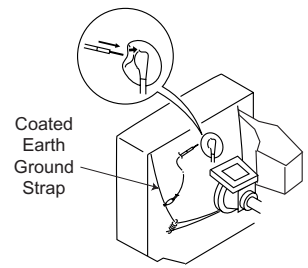


- ① Pull up and rotate both the A and D Boards in order to service the unit.

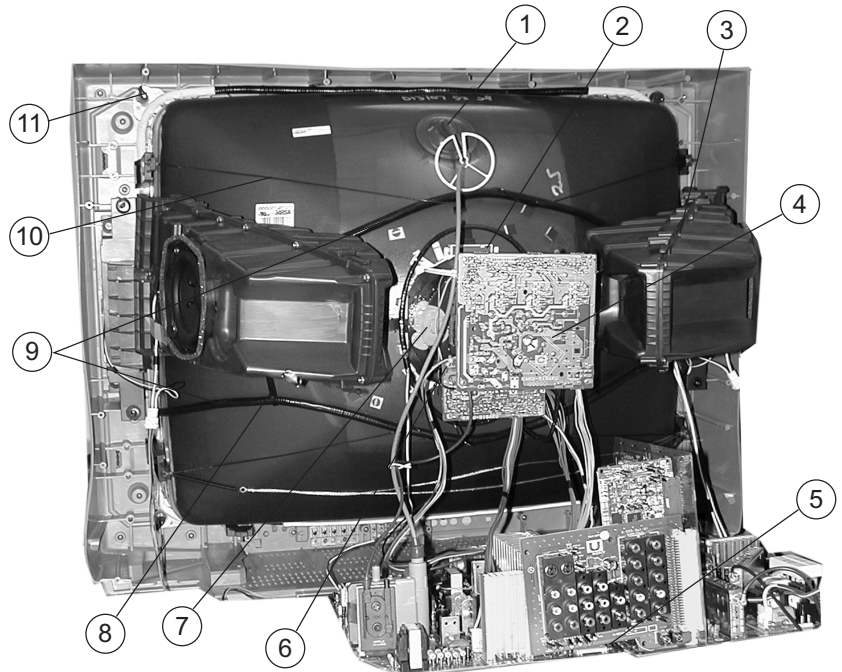
1-4. PICTURE TUBE REMOVAL

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 the 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].

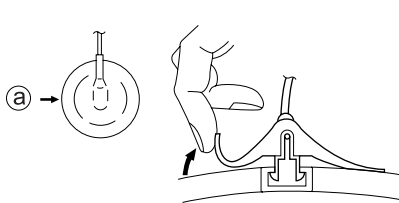


ANODE CAP REMOVAL PROCEDURE

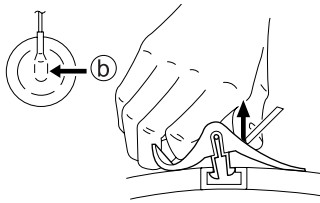
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

NOTE: After removing the anode cap, 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.

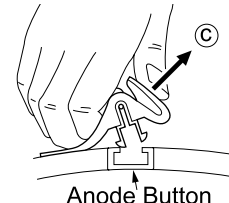
REMOVAL PROCEDURES



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



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

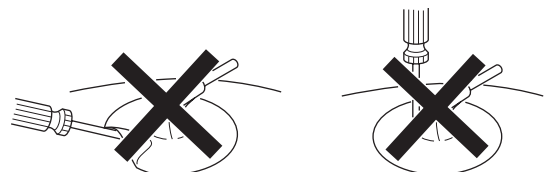


Anode Button

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 2: SET-UP ADJUSTMENTS

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

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

The controls and switch should be set 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

Test Equipment Required:

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

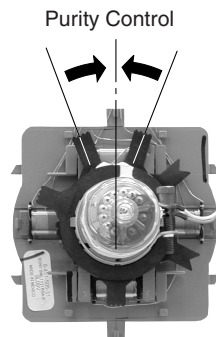
2-1. BEAM LANDING

Preparation:

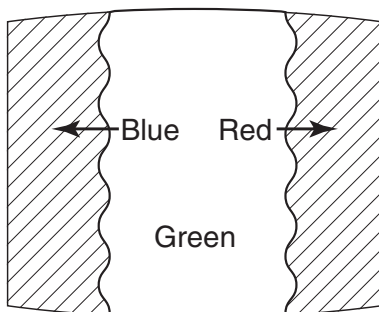
- Input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser; it magnetizes the CRT .

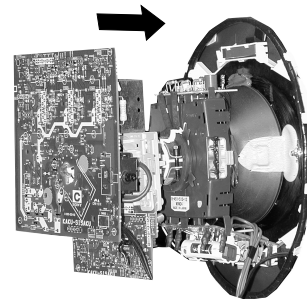
1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGHTNESS control to standard.
2. Perform Focus, G2 and White Balance adjustments.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



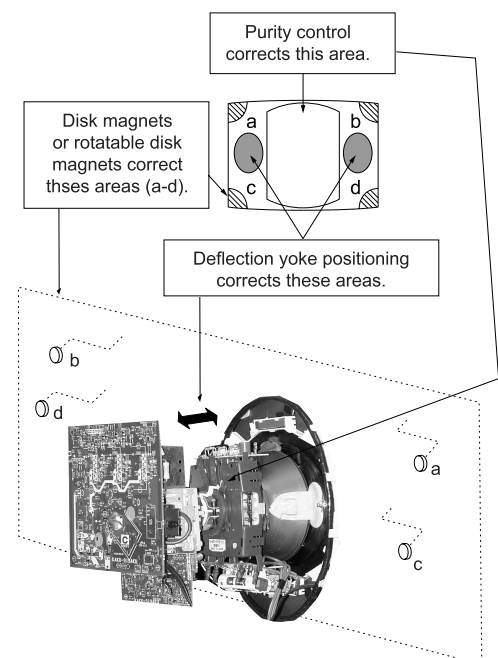
4. Input a green pattern from the pattern generator.
5. Move the deflection yoke backwards, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



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 it by using the disk magnets.



2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
 - Face the picture tube in a North/South direction and correct rotation.
 - Set Video Mode to: Standard (Reset)
1. Adjust service mode CXA2150D-1 04 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
 2. Adjust service mode CXA2150D-1 05 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
 3. Lines should be straight from left to right. Check landing for side effect.

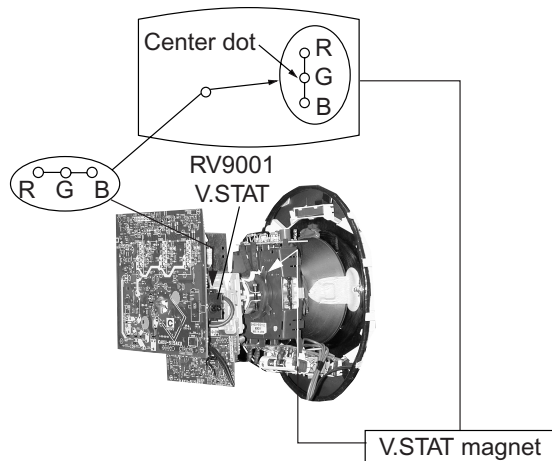
2-3. CONVERGENCE

Preparation:

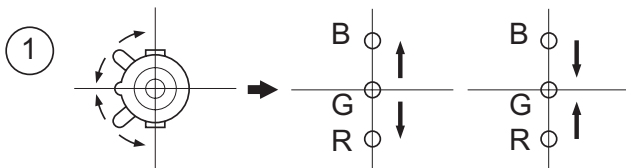
- Set the CONTRAST and BRIGHTNESS control to 50%.
- Input HD dot pattern.

2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Disconnect the dynamic convergence before adjusting static convergence (CN5510), except for minor touch-up.
2. Adjust H.STAT convergence, RV9001, 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.



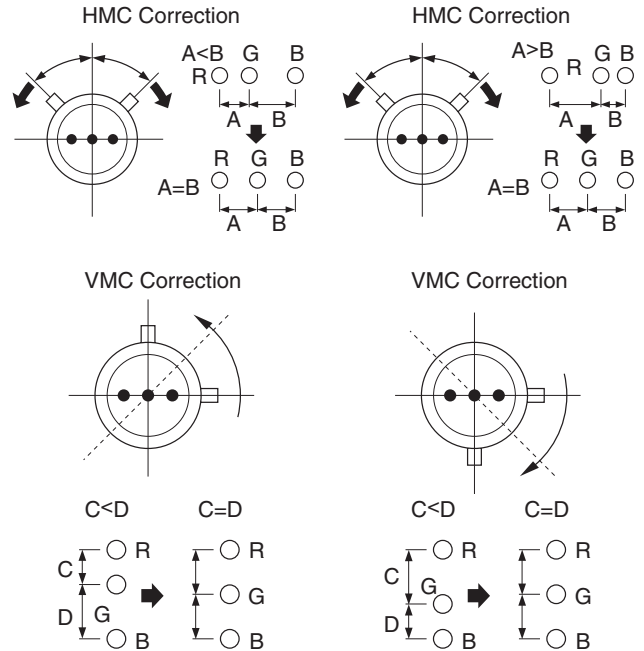
4. Tilt the V-STAT magnet and adjust static convergence to open or close the V-STAT magnet.



2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions result from moving each magnet interact. Perform the following adjustments while tracking.

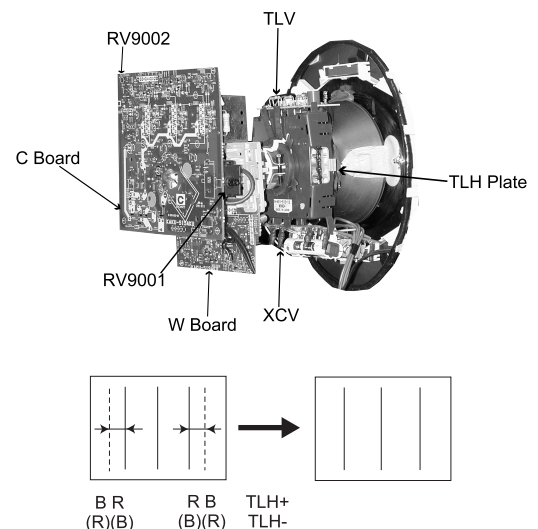
1. Use the V-STAT tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



2-3.3. TLH PLATE ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
- Adjust PICTURE QUALITY to Standard, PICTURE and BRIGHTNESS to 50%, and OTHER to Standard.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH Plate on the deflection yoke.



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

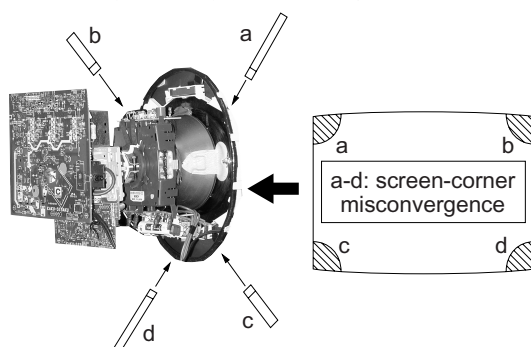
Note: Perform adjustments while tracking Item 1.

2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:

- Input a cross hatch pattern signal.

- Affix a permalloy assembly corresponding to the misconverged areas.



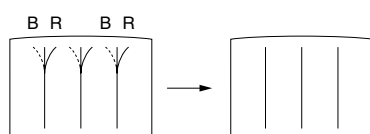
2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS

Set dynamic convergence using the following service mode adjustment data.

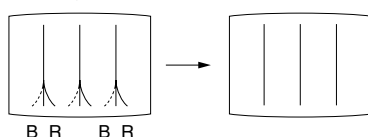
CXA8070AP

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

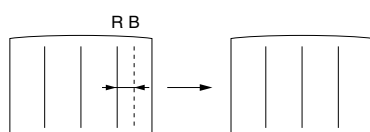
- YBWU (Upper Y-BOW)



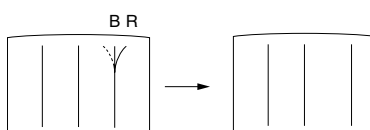
- YBWL (Bottom BOW)



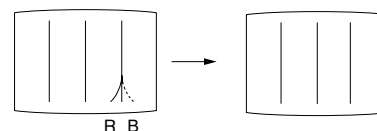
- RSAP (Right AMP)



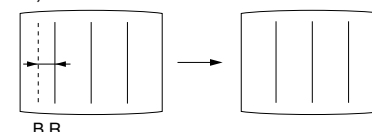
- RUBW (Right Side Upper C-BOW)



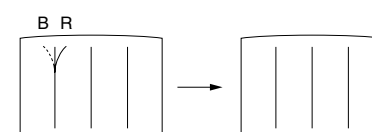
- RLBW (Right Side Bottom C-BOW)



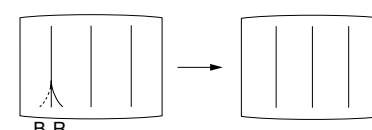
- LSAP (Left AMP)



- LUBW (Left Side Upper C-BOW)

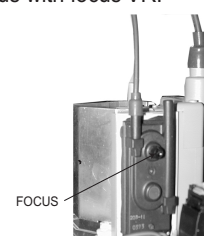


- LLBW (Left Side Bottom C-BOW)

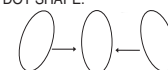


2-4. FOCUS ADJUSTMENT

- Input a dot signal.
- Set Video Mode to STANDARD.
- Adjust focus VR counter-clockwise to confirm that the dot's shape is centered.
- Input a HP monoscope signal.
- Confirm center focus with focus VR.



DOT SHAPE:



2-5. SCREEN (G2)

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

CXA2150P-2

NO.	Disp.	Item	Avg.
0	ALBK	ALL_BLK	0

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

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

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:

- Set PRO MODE (Picture: MAX, GAMMA: 0).
- Dynamic-color: Off (=Trinitron: MID).
- Set the Service Mode to the following:

C2150P-4

NO.	Name	Control Function	Avg. Data
06	UDCL	Dynamic Color: OFF	0
08	UGRAM	GRAMMA	5
15	DCTR	DC-TRAN	2
16	DPIC	DYNAMIC PIC: OFF	1

- 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.

2-6.1. VIDEO INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).

- 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

- Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board.
- Adjust MAIN (left) side contrast according to Service Mode for SCON.

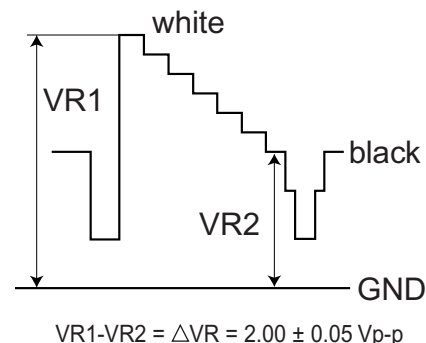
2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

- Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



- Write data from Steps 3 and 4 above, into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).

- 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

- Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the C Board.
- Adjust MAIN (left) side color according to Service Mode for SCOL.
- Adjust MAIN (left) side color according to Service Mode for SHUE.

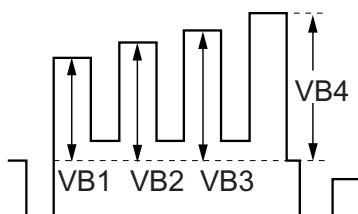
2103-1

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

- Adjust SUB (right) side color according to Service Mode for SCOL.
- 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: $VB1 \leq VB4$ ($=VB1 + 0 \sim 90$ mV)

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

(HUE: Adjust data -2 STEP)

7. Write data into memory.

2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).

1. 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 2-6.1., Items 3 - 4 after the adjustment.

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

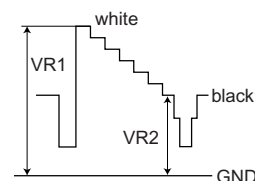
2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to Service Mode for SCON.

2103-2

NO.	Name	Control Function
02	SCON	SUB-CONT



$$VR1 - VR2 = \Delta VR = 2.00 \pm 0.05 V_{p-p}$$

5. Write data from Steps 3 - 4 above, into memory.

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).

1. 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-4

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		CB & CR-OUT	18
20	CBOF	CB-OFFSET	31
21	CROF	CR-OFFSET	31

Note: Use the same average data as 2-6.2., Items 3-6 after the adjustment.

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
3. Adjust MAIN (left) side color according to Service Mode for SCOL.
4. Adjust MAIN (left) side color according to Service Mode for SHUE.

2103-1

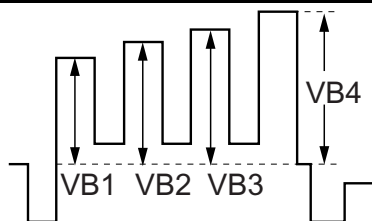
NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE

5. Adjust SUB (right) side color according to Service Mode for SCOL.

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

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

(HUE: Adjust data -2 STEP)

7. Write data into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

- Input an all white 480i (15.734 KHz) 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.

1. Set the following:

Picture: Full Mode

Pro Mode

Color: Center

2. 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

3. Adjust Sub Brightness: Input an all black signal (to IRE 7.5% set up) 480i (15.75 KHz) signal into the VIDEO 1 input terminal. Adjust the following parameter of CXA2150P-1:

4. Check Initial Data (Important).

CXA2150P-1

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

2150P-1

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

5. Repeat Steps 2-4.

2-8. RASTER CENTER ADJUSTMENT

Preparation:

- Input a monoscope signal.
- Set to NTSC (DRC) mode.

1. Set to Service Mode and adjust as follows:

CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

CXA2150D-2

NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	45

CXA2150D-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

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

2-9. PICTURE DISTORTION ADJUSTMENTS

2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

- Face the picture tube in an east-west direction.
- Complete V-PIN and V-CEN adjustments first (A2150-D1 05 V-PIN, A2150-D1 04 V-CEN).
- Input a monoscope and crosshatch signal. Adjust the 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

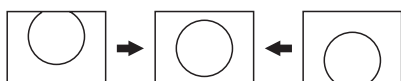
A2150-D2	01	HPOS
A2150-D2	02	HSIZ
A2150-D2	03	SLIN
A2150-D2	04	MPIN
A2150-D2	06	UCP
A2150-D2	07	LCP
A2150-D2	13	PPHA
A2150-D2	14	VANG
A2150-D2	15	LANG
A2150-D2	16	VBOW
A2150-D2	17	LBOW

Note: Make sure that the picture size is within specs. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq.

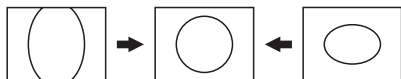
4. Write data into memory and then set the screen to 1080i mode.

CXA2150D-1

0. VPOS (V-POSITION)



1. VSIZ (V-SIZE)



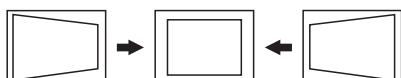
2. VLIN (V-LINE)



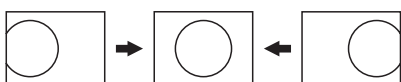
3. VSCO (VS-COR)



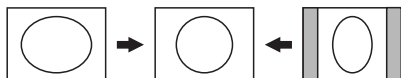
7. HTPZ (H-TRAPEZOID)

**CXA2150D-2**

1. HPOS (H-POSITION)



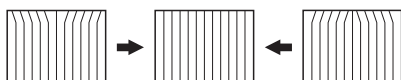
2. HSIZ (H-SIZE)



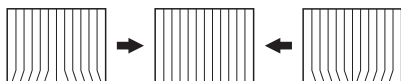
5. PIN (PIN AMP)



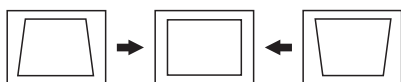
6. UCP (UP COR PIN COR)



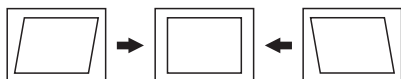
7. LCP (LOW CO PIN COR)



13. PPHA (PIN PHASE)



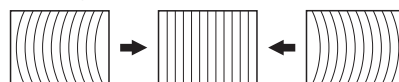
14. VANG (AFC-ANGLE)



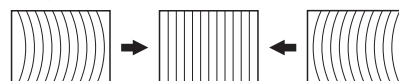
15. LANG (L-ANGLE)



16. VBOW (AFC-BOW)



17. LBOW (L-BOW)

**2-9.2. 1080i HD MODE ADJUSTMENT**

1. Input a 1080i cross-hatch signal and an HD monoscope signal that contains overscan markers.
2. Adjust the raster position per Section 2-8., only if this procedure was not performed for full mode.
3. Adjust the geometry similar to Full DRC mode. Vertical size is 11.7 ± 0.1 sq. and horizontal size is 15.6 ± 0.1 sq., if monoscope signal is available. Otherwise, set the Vertical size to $91.0 \pm 0.6\%$ scan and Horizontal size as $91.0 \pm 0.6\%$ scan.
4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS
----------	----	------

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

5. Write the data into memory.

2-9.3. VERTICAL COMPRESSED MODE CHECK AND CONFIRMATION

1. Input a monoscope and crosshatch signal.
2. Check vertical compressed mode.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. RV8001, RV8002 CONFIRMATION METHOD AND HV SERVICE ADJUSTMENTS

3-2. B+ MAX CONFIRMATION

Standard 135.3 \pm 1 VCD

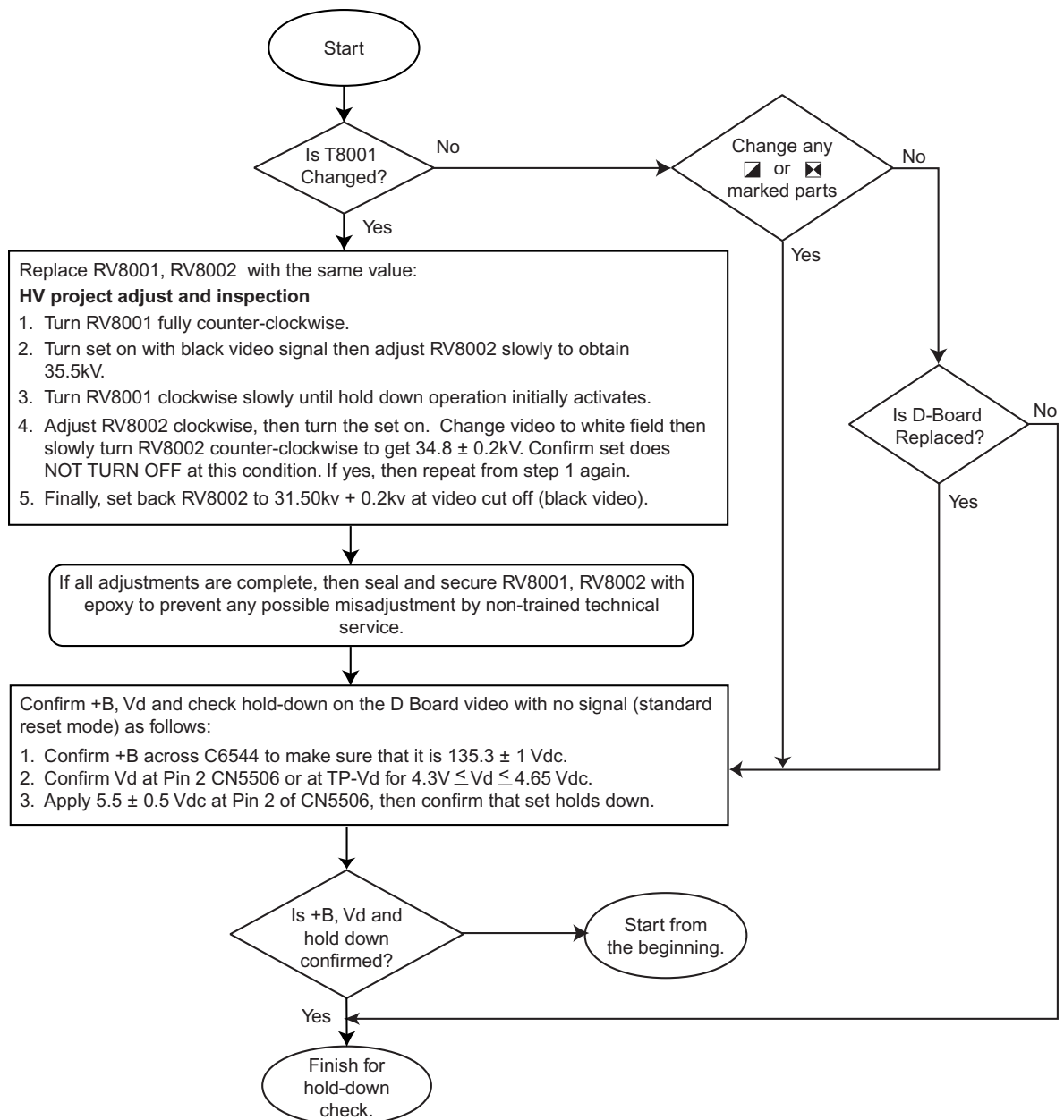
Check Condition:

- AC input voltage:** 120 (\pm 2) VAC at Board Adjustment Process
 130 (\pm 2) VAC at QC
 120 (\pm 2) VAC at Overall Adjustment (after aging)

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

Setting Mode: Full mode
Signal Input: Cross-hatch of NTSC at QC
Initial Setting: Reset condition at QC
Confirm Point: Across C6544 for B+ of D Board

3-3. HV SERVICE FLOWCHART



SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y184) to perform the circuit adjustments in this section.

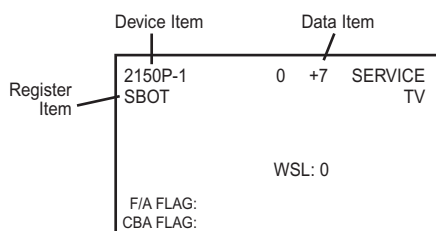
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING THE SERVICE ADJUSTMENT MODE

1. Standby mode (Power off).
2. Press the following buttons on the Remote Commander within one second of each other:

DISPLAY → Channel **5** → Sound Volume **+** → Power

SERVICE ADJUSTMENT MODE VIEW



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.
3. Press **1** or **4** on the remote to select an item.
4. Press **3** or **6** on the remote to change the data.
5. Press **MUTING** then **ENTER** to write into memory.

4-1.1. RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize 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**, then **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.

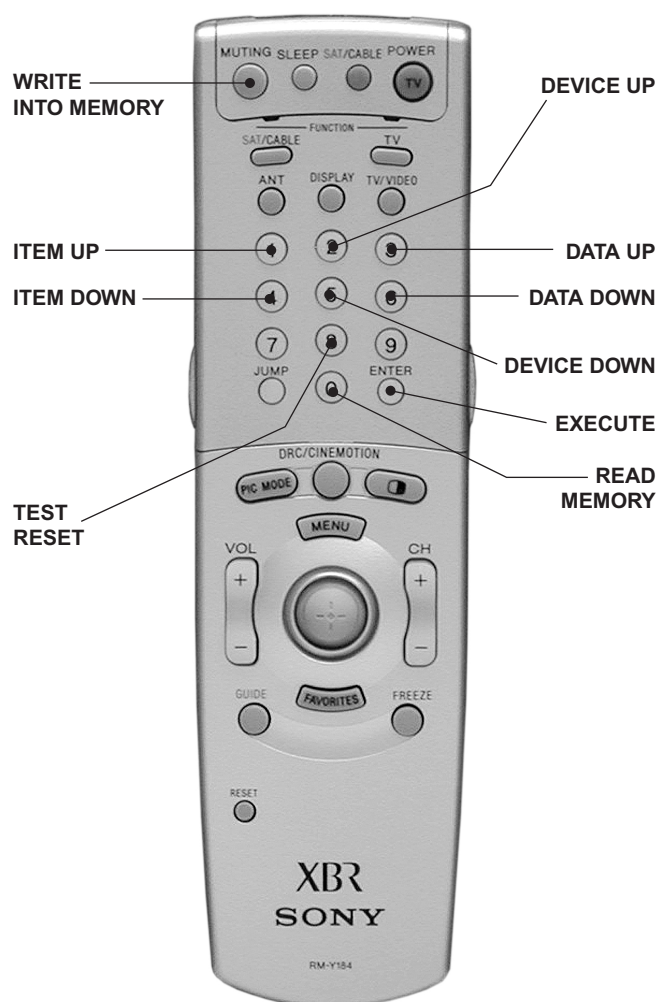
RESETTING THE SYSTEM NVM DATA

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

4-2. MEMORY WRITE CONFIRMATION METHOD

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

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y184

4-4. SERVICE DATA LISTS

KV-38DRC2 / 38DRC2C

DX1A-2001* 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 / 64h)
# 11	MID2	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)
# 12	MID3	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)
# 13	MID5	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)
# 14	OSD	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}
# 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-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}
# 19	ID	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}
DX1A-2001 System Micro & Notes for Services		M306V2ME-153FP (MASK), Software Version 1.0, IC701/A-board (Slave Adress: 60h)			
		The system micro name, software&patch versions, and the status of NVM devices are displayed only when in the service catgory (#19): ID.			
DX1A-2001 MID-XA Micro		MB94918RPF-G-137-BND (MASK), Software Version 12/08/00, IC3090/B-board (Slave Address: 64h)			
DX1A-2001 CCD&Vchip Micros		CXP85840A-039Q (MASK), Software Version 2.14, IC3602/B-board (Main/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address: 6Ch)			
Note:					
* This service list is used for DX1A-2001 ONLY. Some service data is the same in DX1A-2001 & 2000, as noted in the data sheets.					

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-1/4)									
Device Name: mPD64082GF { 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	Operation mode setting		0~3	0	1	3	3	
1	YAPS	Y-output correction (V-aperture compensation & Y-peaking filtering)	C	0~3	3				
2	CLKS	System clock setting	C	0~3	1				
					UHF/VHF & CVideo		SVideo		
					Standard	Non-standard	Standard	Non-standard	
3	NSDS	Selection for standard/non-standard signal processing		0~3	0	0	0	0	
4	MSS	Selection for inter-frame/inter-line processing	C	0~3	0				
5	KILS	Killer processing selection	C	0~3	1				
6	CDL	C-signal phase with respect to the Y-signal (Fine adjustment at 70 ns/step)	C	0~7	3				
		NRMD Setting-based Control Table for DYCO, DYGA, DCCO, DCGA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
7	DYCO	DY detection coring level (Y motion detection coring)		0~15	2	2	2	2	
8	DYGA	DY detection gain (Y motion detection gain)		0~15	10	10	10	10	
9	DCCO	DC detection coring level (C motion detection coring)		0~15	5	5	5	5	
10	DCGA	DC detection gain (C motion detection gain)		0~15	5	5	5	5	
11	YNRL	Frame recersive YNR nonlinear filter limit level	C	0~3	1				
12	CNRL	Frame recersive CNR nonlinear filter limit level	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	Hysteresis for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1		
14	VTRR	Sensitivity for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1		
15	LDSR	Sensitivity for frame non-standard signal detection (out-of-Hsync inter-frame)		0~3	2	2	2		
		VM&SNNR Setting-based Control Table for VAPG & VAPI VAPG= VAPG1 - VAPG2			VAPG1 Data Based on MENU/VM Setting				This setting continues to the next page.
					VM = Off	VM = Low	VM = Mid	VM = High	
16	VAPG	V-aperture compensation gain		0~7	0	2	3	4	
17	VAPI	V-aperture compensation convergence point		0~31	4	4	4	8	
		SNNR Setting-based Control Table for YPFT & YHFG			SNNR Setting (-Offset)				
					SNNR = 0		SNNR = 1	SNNR = 2	SNNR = 3
18	YPFT	Y peaking filter (BPF) center frequency		0~3	0	0	0	0	0
19	YPFG	Y peaking filter (BPF) gain		0~15	7	0	1	2	3
Note: The same 3D-COMB service data is used for DX1A-2001&2000.									

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-2/4)						
Register No & Name	Data Initial/Average Setting (32V&36V CRTs)			Comment		
	VAPG2 Data Based on SNNR/Offset-setting					
	SNNR = 0	SNNR = 1	SNNR = 2			SNNR = 3
#16 VAPG (cont.)	0	0	0			0
Note: The same 3D-COMB service data is used for DX1A-2001&2000.						

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-3/4)

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-3/4)									
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
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	This setting continues to the next page.	
28	NR1	Noise reduction on/off		0, 1	0	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	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	
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 (ms)}	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: The same 3D-COMB service data is used for DX1A-2001&2000.									

Note: The same 3D-COMB service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-4/4)					
Register No & Name	Data Initial/Average Setting (32V&36V CRTs)				Comment
	CVideo2	SVideo2	CVideo3	SVideo3	
#28 NR1 (cont.)	0	1	0	1	
Note: The same 3D-COMB service data is used for DX1A-2001&2000.					

DX1A-2001&2000 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) SNNR=1 (-offset) SNNR=2 (-offset) SNNR=3 (-offset) 0 1 2 3				
					7 [7]		7 [7]						
2	SCON	Sub contrast	Adj.	0~15	7 [7]		7 [7]		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
3	SCOL	Sub color	Adj.	0~15	7 [7]		7 [7]						
4	SHUE	Sub hue	Adj.	0~15	7 [Adj.-2steps]		7 [Adj.-2steps]						
5	YDLY	Y/C delay time		0~3	0		0						
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo	YPbPr 480i					
6	SHAP	Sharpness		0~15	6	4	4	4					
7	SHF0	Sharpness f0 selector		0~3	0	0	0	0					
8	PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0	0					
9	BPF0	Chroma band filter f0 setting		0~3	3	0	0	0					
10	BPFQ	Chroma band filter Q setting		0~3	0	3	3	3					
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					
13	LPF	YPbPr-Output LPF on/off		0, 1	0	0	0	0					
					UHF/VHF	Video	YPbPr 480i						
14	AFCG	AFC Loop Gain (PLL between Hsync & HVCO)		0, 1	1	0	0						
15	CDMD	V countdown system mode selector		0~3	3	3	3						
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						
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						
					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					
20	CBOF	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63	31	31*	31	31*	*: 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	31	31*	31	31*					
	CXA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR				P&P & Favorite				P&P & Favorite				Single
					UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7	UBLK = 0~7
22	ATPD	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
23	DCTR	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0
Note: The same CXA2103 service data (Main&Sub) is used for DX1A-2001&2000.													

DX1A-2001&2000 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				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.				
					P&P-Right (S)	P&P-Right (S)-DRC							
0	YLEV	Y-Out gain		0~63	23	22							
1	CLEV	Cb&Cr-Out gains		0~63	18	16		Adj.: Adjusted data [Adj.-2steps]: The adjusted data - 2 steps					
					UHF/VHF		Video						
2	SCON	Sub contrast	Adj.	0~15	7	[7]	7						[7]
3	SCOL	Sub color	Adj.	0~15	7	[7]	7	[7]	SNNR=0 (-offset) 0 SNNR=1 (-offset) 1 SNNR=2 (-offset) 2 SNNR=3 (-offset) 3				
4	SHUE	Sub hue	Adj.	0~15	7 [Adj.-2steps]		7 [Adj.-2steps]						
5	YDLY	Y/C delay time		0~3	0		0						
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo		CVideo: CVideo1~4 Inputs SVideo: SVideo1~3 Inputs				
6	SHAP	Sharpness		0~15	6	4	4						
7	SHF0	Sharpness f0 selector		0~3	0	0	0						
8	PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0						
9	BPF0	Chroma band filter f0 setting		0~3	0	0	0						
10	BPFQ	Chroma band filter Q setting		0~3	0	0	0						
11	BPSW	Chroma band filter on/off		0, 1	0	0	0						
12	TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0						
13	LPF	YPbPr-Output LPF on/off		0, 1	0	0	0						
					UHF/VHF	Video							
14	AFCG	AFC Loop Gain		0, 1	1	0							
15	CDMD	V countdown system mode selector		0~3	3	3							
16	SSMD	H&Vsync slide level setting		0~3	0	0							
17	HMSK	Masking of macrovision signal on/off		0, 1	1	1							
18	HALI	H automatic adjustment on/off		0, 1	0	0							
19	PPHA	H TIM phase adjustment for video		0~15	7	7							
					UHF/VHF & CVideo		YPbPr-480i		*: Settings not used (31): The center setting = 31				
					P&P-Right (S)	P&P-Right (S)-DRC	P&P-Right (S)	P&P-Right (S)-DRC					
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*	P&P & Favorite				Single UBLK = 0~7
	CXA2150P-4#13 UBLK Setting-related Controls for ATPD & DCTR				P&P & Favorite								
					UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3					
22	ATPD	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
23	DCTR	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0
Note: The same CXA2103 service data (Main&Sub) is used for DX1A-2001&2000.													

Note: The same CXA2103 service data (Main&Sub) is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#3-1): CXA2150P-1 {Picture Controls: P1}												
Device Name: CXA2150AQ { 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 Adj.: Adjusted data C: Common data Initial Setting = [Avg. Data]
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	
4	SBRT	SUB_BRIGHT: Sub Bright	Adj.	0~63	24 [24]						Initial Setting = [Avg. Data]	
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]							
					Vivid		Standard		Movie		Pro	
11	WBSW	WB_SW: White balance offset on/off (Related to UTMP settings)		0, 1	0 (Cool)		0 (Neutral)		1 (Warm)		0	
12	SBOF	Offset for SBRT		0~(63)~127	63		63		63		63	**: The color temperature offset data
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	
Note: The same CXA2150 service data is used for DX1A-2001&2000.												

DX1A-2001&2000 SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}											
Device Name: CXA2150AQ { 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
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_BT: 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		
9	CLPH	CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	3	3	3	3	3		
10	CLGA	CLP_GATE: Switch for the gated internal clamp pulse with Hsync input		0, 1	0	0	0	0	0		
11	JAXS	JAXIS: Color axis switch		0, 1	0						
12	BLKO	BLKO: Blanking switch		0, 1	0						
Note: The same CXA2150 service data is used for DX1A-2001&2000.											

DX1A-2001&2000 SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1/3)												
Device Name: CXA2150AQ { 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. CV: CVideo1~4 SV: SVideo1~3 C: 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 saturation		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	UHO	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	---	---	
Note: The same CXA2150 service data are used for DX1A-2001&2000.												

DX1A-2001&2000 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-2001&2000 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 F1LV (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						
Note: The same CXA2150 service data are used for DX1A-2001&2000.										

DX1A-2001&2000 SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1/4)													
Device Name: CXA2150AQ { 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	Settings for 36V CRTs are used for initial settings.	
						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	This setting continues to the next page.	
		SNNR Setting-related Controls for USHP											
4	USHP	SHARPNESS: Sharpness			0~63	38	42	44	48	34	31		
5	UTMP	Color Temperature (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						These settings continue to the next page. Video1~4: CVideo1~4 & SVideo1~3	
						UHF/VHF Video1~4		YPbPr 480i	YPbPr 480p	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 480p	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	These settings continue to the next page.	
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		0
11	GCOO	Offset for UCOL			0~3	0	0	0	0	0	0		0
12	GHUO	Offset for UHUE			0~3	0	0	0	0	0	0	These settings continue to the next page. (): Settings at center	
						Picture Mode: Vivid							
						UHF/VHF Video1~4		YPbPr 480i	YPbPr 480p	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										These settings continue to the next page. (): Settings at center	
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)~15	7		7	7	7	7		
18	ABLM	ABL_MODE: ABL mode			0~3	1		1	1	1	1		
Note: The same CXA2150 service data are used for DX1A-2001&2000.													

DX1A-2001&2000 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
SNNR Setting (-Offset)		SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3												
#4 USHP (cont.)		0	1	3	4												
		Picture Mode: Pro															
		UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P											
#7 AXIS (Cont.)		3	3	3	3	3											
		Picture Mode: Standard															
		U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	Picture Mode: Movie					Picture Mode: Pro					
#8 UGAM (Cont.)		2	2	2	2	2	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		UGAM = 0															
#10 GSBO (cont.)		0															
#11 GCOO (cont.)		0															
#12 GHUO (cont.)		0															
		Picture Mode: Standard															
		UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	Picture Mode: Movie					Picture Mode: Pro					
#13 UBLK (Cont.)		4	4	4	4	4	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
							1	1	1	1	1	0	0	0	0	0	
#15 DCTR (Cont.)		2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
#16 DPIC (Cont.)		1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
#17 DSBO (Cont.)		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
#18 ABLM (Cont.)		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	
Note: The same CXA2150 service data are used for DX1A-2001&2000.																	

DX1A-2001&2000 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	
Note: The same CXA2150 service data are used for DX1A-2001&2000.									

DX1A-2001&2000 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 correct detection Vth control		0~15	0					Full: 480p/960i (4x3) Vcomp1: 480p/960i (16x9) Vcomp2: 1080i (16x9) (): Settings at center C: Common data
					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 Data	---	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)~15	8	8	9	7	8	
25	HUOF	Offset for UHUE		0~7~15	4	3	3	3	4	
		CXD2085 Service Controls								
26	IDSW	Switch for activating the selection in #27 DATA	C	0, 1	0					
					Full	Vcomp1	Vcomp2			
27	DATA	Selection of geometry-forced vertical compression modes	C	0~3	0	1	2			
Note: The same CXA2150 service data are used for DX1A-2001&2000.										

DX1A-2001&2000 SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}								
Device Name: CXA2150AQ { 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	Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
0	VPOS	V_POSITION: Vertical position (V_DRV signal DC-bias)	Adj.	0~(31)~63	26 [26]			
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]			Adj.: Adjusted data (): Settings at center
3	VSCO	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15	8 [8]			
4	VCEN	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment VSAW0_DCH: VSAW0 waveform DC component (high 2-bits) VSAW0_DCL: VSAW0 waveform DC component (low 4-bits)	Adj.	0~(31)~63	31 [31]			VCEN-L(Low bit) VCEN-H(High bit)
5	VPIN	VSAW0_AMP: Vertical PIN adjustment VSAW0 waveform SAW component amplitude	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. (If both of them are not good, please feedback to / check with the DY attachment process.)
7	HTPZ	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31	15 [15]			
8	ZOOM	ZOOM_SW: Zoom switch		0, 1	0	0		
9	APSW	ASP_SW: Aspect switch		0, 1	1	1	0	
10	ASPT	V_ASPECT: Aspect ratio	Adj.	0~63	47	47	47	
11	SCRL	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32	32	
12	UVLN	UP_VLIN: Upper vertical linearity		0~15	0	0		
13	LVLN	LO_VLIN: Lower vertical linearity		0~15	0	0		
Note: The same CXA2150 service data is used for DX1A-2001&2000.								

DX1A-2001&2000 SERVICE LIST (#4-2): CXA2150D-2 {Deflection Controls: D2}							
Device Name: CXA2150AQ { 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	HCNT HC_PARA_DC: Horizontal center	Adj.	0~(31)~63	31	[31]		Full: 480p/960i (4x3) display Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
1	HPOS H_POSITION: Horizontal position	Adj.	0~(31)~63	31		31	
				[31]		[Adj.-6steps]	
2	HSIZ H_SIZE: Horizontal size	Adj.	0~(31)~63	45	[45]		(): Settings at center
3	SLIN MP_PARA_DC: Horizontal S-correction	Adj.	0~15	3	[3]		Adj.: Adjusted data
4	MPIN MP_PARA_AMP: Horizontal middle pin		0~15	7			[Adj.-6steps]:
5	PIN PIN_AMP: Horizontal pin	Adj.	0~(31)~63	35	[35]		The adj. data for Vcomp2 mode
6	UCP UP_CPIN: Upper corner pin	Adj.	0~(31)~63	38	[38]		= The adj. data for Full/Vcomp1
7	LCP LO_CPIN: Lower corner pin	Adj.	0~(31)~63	42	[42]		modes - 6 steps
8	UXCG UP_UCG: Upper extra corner pin gain		0~3	1			Data (32Vor36V): The data for 36V are used as the Initial & CBA data.
9	LXCG LO_UCG: Lower extra corner pin gain		0~3	2			
10	UXCP UP_UCP: Upper extra corner pin position		0~3	2			
11	LXCP LO_UCP: Lower extra corner pin position		0~3	2			From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.
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 + Enter.) Copy all CXA2150D-2 data for Full mode to Vcomp1&2	Micro	0, 1	0			For engineering design use only
Note: The same CXA2150 service data is used for DX1A-2001&2000.							

DX1A-2001&2000 SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}							
Device Name: CXA2150AQ { 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	
0	HBLK HBLK_SW: Horizontal blanking switch		0, 1	1			Full: 480p/960i (4x3) display
1	LBLK LEFT_BLK: Left blanking		0~63	45	50		Vcomp1: 480p/960i (16x9) display
2	RBLK RIGHT_BLK: Right blanking		0~63	24	27		Vcomp2: 1080i (16x9) display
3	VBK 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	VFRQ V_FREQ: Vertical frequency		0~3	1			
12	VON V_ON: Vertical drive on		0, 1	1			
13	JUMP JMP_SW: Reference pulse jump switch		0, 1	0	1		
14	VDJP VDRV_SW: Vertical drive jump switch		0, 1	0	0	1	
15	VDST RST_SW: Vertical drive start switch		0, 1	0	0	1	
16	EWDC EW_DC: Pin DC level shift		0, 1	0	0		
17	AKBT AKBTIM: AKB timing		0~31	20	20	10	
Note: The same CXA2150 service data is used for DX1A-2001&2000.							

DX1A-2001&2000 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)	<u>Video5&6:</u> YPbPr-480i/480p/1080i inputs <u>Sub:</u> 480i input from the sub-channel <u>Full:</u> 480p/960i (4x3) display <u>Vcomp1:</u> 480p/960i (16x9) display <u>Vcomp2:</u> 1080i (16x9) display <u>C:</u> Common data	
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 SELYOUT, SELCBOUT, SELCROUT	C	0~3	0				
2	CBGN	YGAIN, CBGAIN, CRGAIN: The gain control of SELYOUT, SELCBOUT, & SELCROUT	C	0~15	9				
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		
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: The same CXA2151 service data is used for DX1A-2001&2000.									

DX1A-2001&2000 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	<div>Full: 480p/960i (4x3) display mode</div> <div>Vcomp1: 480p/960i (16x9) display mode</div> <div>Vcomp2: 1080i (16x9) display mode</div> <div>Adj.: Adjusted data</div> <div>From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.</div>	
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.)	Micro	0, 1	0			For engineering design use only	
<div>Note:</div> <div>The same CXA8070 service data is used for DX1A-2001&2000.</div>									

DX1A-2001&2000 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	13 [15]	13 [15]	13 [15]	Data (36v) is 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.)	Micro	0, 1	0			For engineering design use only
12	200V	H.DUTY, H.TILT: 200V regulator adjustment	Adj.	0~63	31 [31]			
Note: The same CXA2026 service data is used for DX1A-2001&2000.								

DX1A-2001&2000 SERVICE LIST (#8): Audio Processing (AP) / BH3868AFS					
Device Name: BH3868AFS { 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: The same AP service data is used for DX1A-2001&2000.					

DX1A-2001&2000 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: The same TRUS service data is used for DX1A-2001&2000.					

DX1A-2001* 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: 6-800-050-01 (SB#: V4216) }									
MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)									
Register No & Name		Control Register Function & Link	Register Name (Software)	Data Type	Data Range	Data Initial/Average Setting (32V/36V/40V 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&p	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	14	
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	0			0: MUST be used in DX1A-2001, 1: Used in DX1A-2000
19	MDL0	Model selection 0 (0: 16x9, 1: 4x3)		C	0, 1	0			
Note: * These MID1 settings are used for DX1A-2001 ONLY. The DPSW setting was changed from 1 in DX1A-2000 to 0 in DX1A-2001.									

DX1A-2001&2000 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: 6-800-050-01 (SB#: V4216) }											
MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)											
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	DRV	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: The same MID2 service data is used for DX1A-2001&2000.											

DX1A-2001&2000 SERVICE LIST (#12): MID3 (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: 6-800-050-01 (SB#: V4216) }											
MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)											
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	
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: The same MID3 service data is used for DX1A-2001&2000.											

DX1A-2001&2000 SERVICE LIST (#12): MID3 (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 VDV5 (cont.)	MID Mode: P&P / Favorite				MID Mode: FREEZE			Dummy-480i settings are used for No Signal cases.	
	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		
	Note: The same MID3 service data is used for DX1A-2001&2000.								

DX1A-2001&2000 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: 6-800-050-01 (SB#: V4216) }															
MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)															
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)				See the next page.
							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_ccof		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: The same MID5 service data is used for DX1A-2001&2000.															

See the next page.

DX1A-2001&2000 SERVICE LIST (#13): MID5 (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: The same MID5 service data are used for DX1A-2001&2000.												

DX1A-2001&2000 SERVICE LIST (#13): MID5 (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)				See the next page.
							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		
19	SHLY	Y coefficient code of Horizontal LPF (S)			s_hlpf_ycoef	0~7	0	0	0	0	0	0	0	0		
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_ycore	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_ycore	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		
Note: The same MID5 service data is used for DX1A-2001&2000.																

DX1A-2001&2000 SERVICE LIST (#13): MID5 (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	
Note: The same MID5 service data are used for DX1A-2001&2000.									

DX1A-2001* SERVICE LIST (#14): On-Screen Display (OSD)						
Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)						
Slave Address: 60h						
System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (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	33	
2	VPOS	OSD vertical position	C	0~255	5	
3	VPOT	Vertical position for P&P (Twin) mode	C	0~255	32	
Note: * This OSD settings are used for DX1A-2001 ONLY. (DX1A-2000 uses two OSD settings based on two versions of system micros.)						

DX1A-2001&2000 SERVICE LIST (#15): SNNR									
Related Control Devices: mPD64082 { 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)	C	0, 1	0				C: ComMon data	
2	WSLT Noise level detection data thresholds for SNNR data (read data)		0~255	WSLT Data / Threthold Range					
	SNNR data used as the (-) offset settings			0~30	31~62	63~126	127~255		
	SNNR = 0/1/2/3 @ WSLT £ 0/31/63/127, respectively		0~3	SNNR Settings Based on WSL Data (- Offset Data)					
3	CPFG Related to 3D-COMB (mPD64082) / #19 YPFG settings		-----	0	1	2	3		
4	CPFT Related to 3D-COMB (mPD64082) / #18 YPFT settings		-----	0	0	0	0		
	SNNR data used as the direct settings		-----						
5	CCOR Related to 3D-COMB (mPD64082) / #20 YHCO settings		-----	0	1	1	1		
6	CHCG Related to 3D-COMB (mPD64082) / #21 YHCG settings		-----	1	1	1	1		
	SNNR data used as the (-) offset settings								
7	CAPG Related to 3D-COMB (mPD64082) / #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: The same SNNR service data is used for DX1A-2001&2000. Please refer to the part numbers and SBorSD numbers given in the service list for these devices.									

DX1A-2001&2000 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 (REW) 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: The same ID1 service data is used for DX1A-2001&2000. Other service controls related to CXD2085 (IDSW & DATA) are listed in Service List (CXA2150P-4) for easier engineering adjustment.						

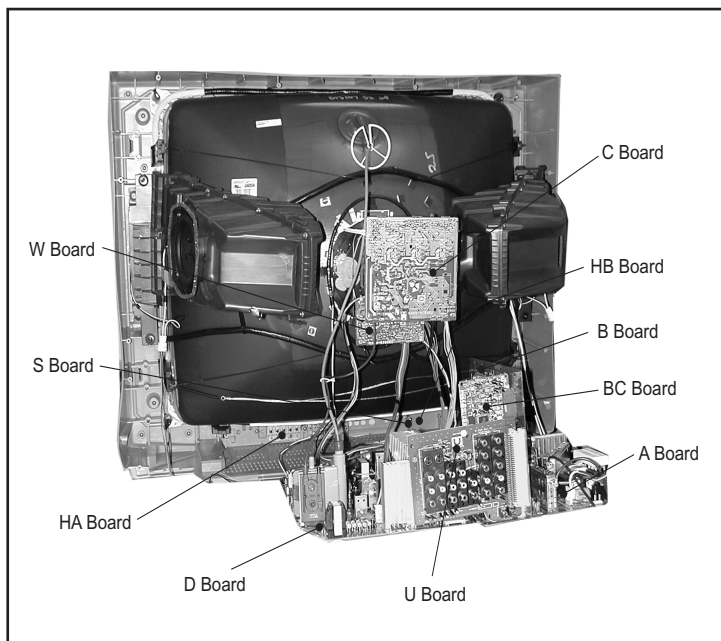
DX1A-2001&2000 SERVICE LIST (#17): Closed Caption Display & Parental Control (CCD&VCHIP)						
Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK type) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board) / P/N: 8-752-916-40 (SD#: S97739B)						
Slave Address: 68h (Main) & 6Ch (Sub)						
CCD&Vchip Micro 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 control	C	0~7	3	
4	CRIP	CRI count & parity count	C	0~7	4	
5	CRIT	Charge/Discharge timing control for slice voltage level	C	0, 1	0	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: The same CCD&VCHIP service data is used for DX1A-2001&2000.						

DX1A-2001&2000 SERVICE LIST (#18): OPTIONS (OP)						
Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)						
Slave Address: 60h						
System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (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: The same OP service data is used for DX1A-2001&2000.						

DX1A-2001* SERVICE LIST (#19): IDENTIFICATION (ID)						
Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)						
Slave Address: 60h						
System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)						
Register No & Name	Control Register Function & Link		Data Type	Data Range		Comment
		Shipping Destination-related Settings			KV-38DRC2 KV-38DRC2C	
0	ID0	Selection of OSD languages & color systems		0~255	25	
1	ID1	Selection of composite & s-video inputs		0~255	127	
2	ID2	Selection of audio-related controls		0~255	255	
3	ID3	Selection of basic system settings		0~255	202	
4	ID4	Selection of basic system settings		0~255	251	
5	ID5	Selection of advanced system settings		0~255	177	
6	ID6	Selection of sub picture-related settings		0~255	54	
7	ID7	Selection of some reserved settings		0~255	88	
Note: * These ID settings are used for DX1A-2001 ONLY. (DX1A-2000 uses different ID settings.) The system micro name, software&patch versions, and the status of NVM devices are displayed only when in this service category (#19): ID.						

SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



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

The symbol \blacksquare indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

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.

Le symbole \blacksquare indique une fusible à action rapide. Doit être remplacé par une fusible de même valeur, comme marqué.

The components identified by \blacksquare 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 necessary, replace only with the value originally used (Refer to Safety Related Adjustments on page 18).

When replacing components identified by \blacksquare , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by \blacksquare and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

5-2. 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. K = 1000, M = 1000K.

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm

Rating electrical power : $\frac{1}{4}$ W

$\frac{1}{4}$ W in resistance, $\frac{1}{10}$ W and $\frac{1}{8}$ W in chip resistance.

$\text{---}\blacksquare\text{---}$: nonflammable resistor.

$\text{---}\blacksquare\text{---}$: fusible resistor.

\triangle : internal component.

\square : 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 10M 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.

--- $\text{---}\text{V}\text{---}$: B-line. (Actual measured value may be different).

\Rightarrow : signal path. (RF)

Circled numbers are waveform references.

Part Replaced (\blacksquare)	Adjustment (\blacksquare)
D BOARD: T8001, R8035, R8036, R8037, R8038, R8039, R8040, R6590, RV8001, RV8002, IC6503, IC8001, IC8003, IC8004, D8004, D8014, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD: RV8001, RV8002

REFERENCE INFORMATION

RESISTOR

: RN METAL FILM
 : RC SOLID
 : FPRD NONFLAMMABLE CARBON
 : FUSE NONFLAMMABLE FUSIBLE
 : RW NONFLAMMABLE WIREWOUND
 : RS NONFLAMMABLE METAL OXIDE
 : RB NONFLAMMABLE CEMENT
 : \otimes ADJUSTMENT RESISTOR

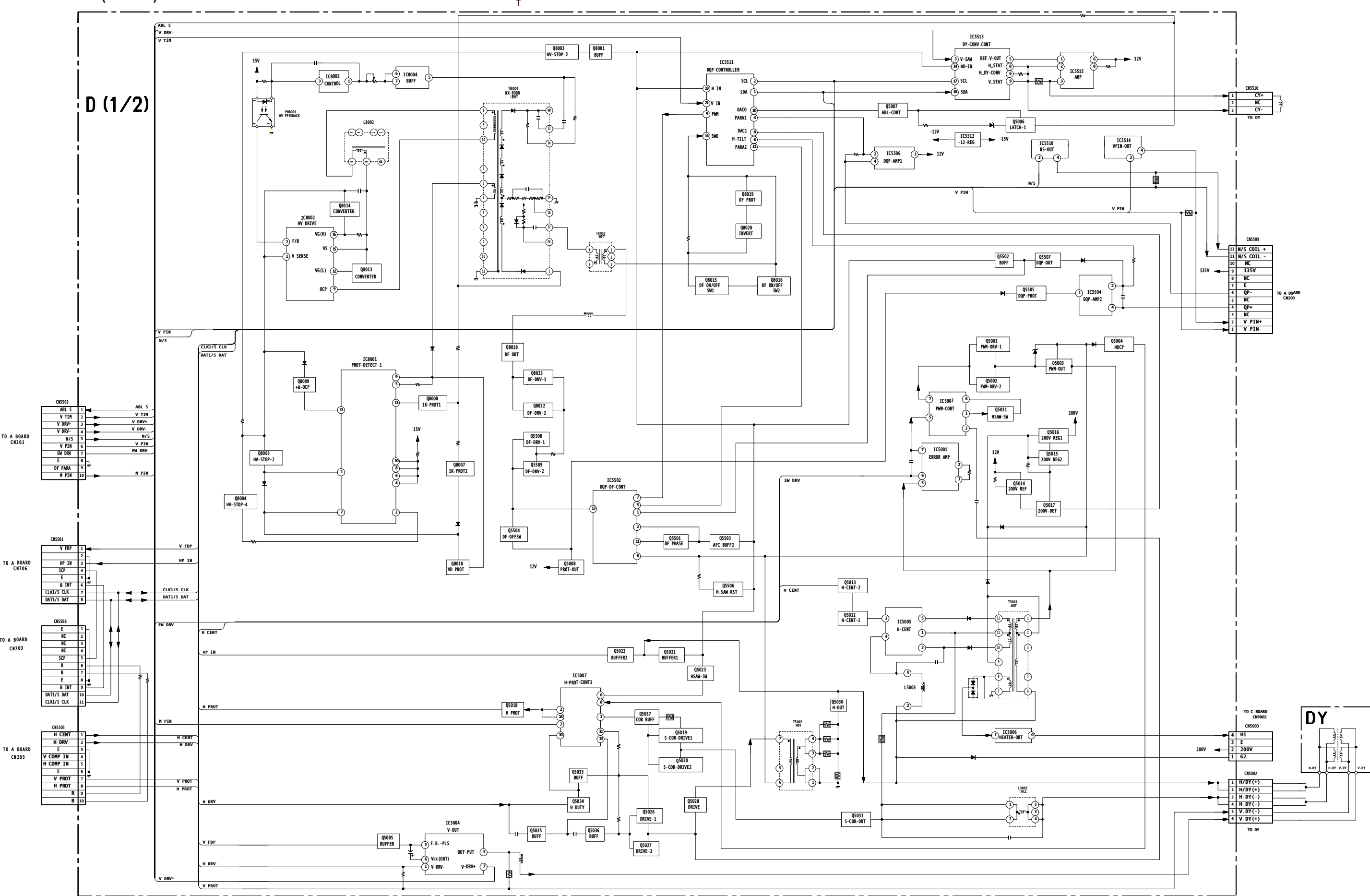
CAPACITOR

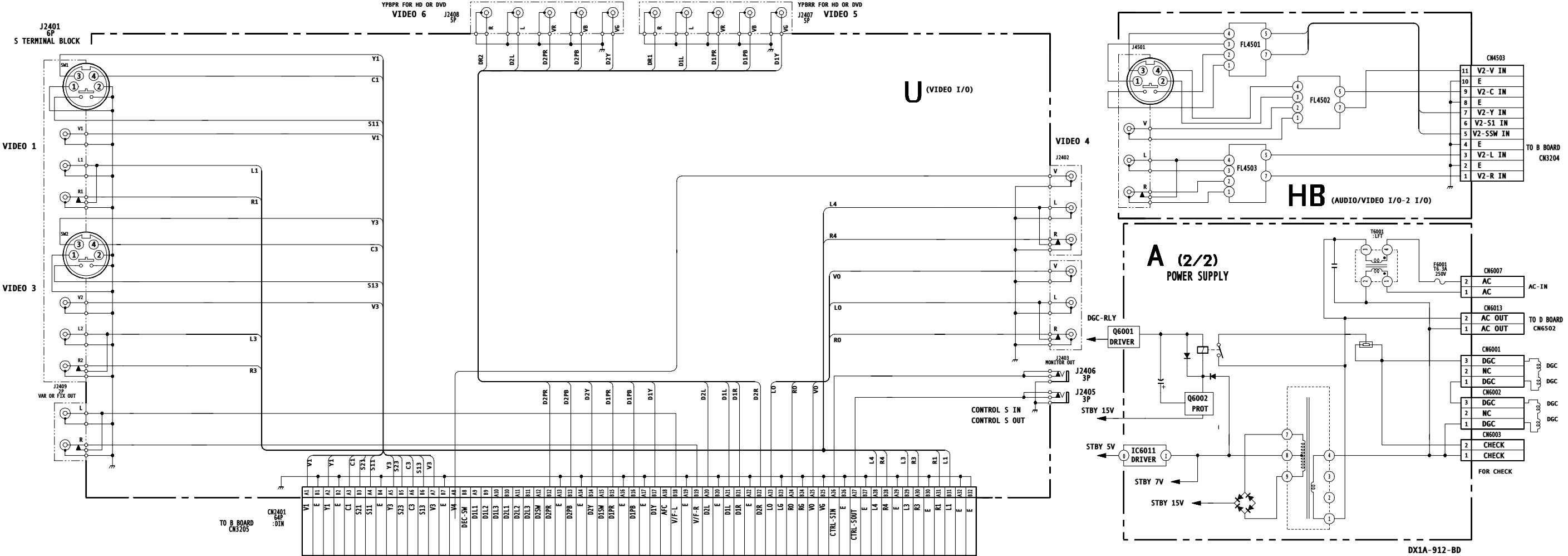
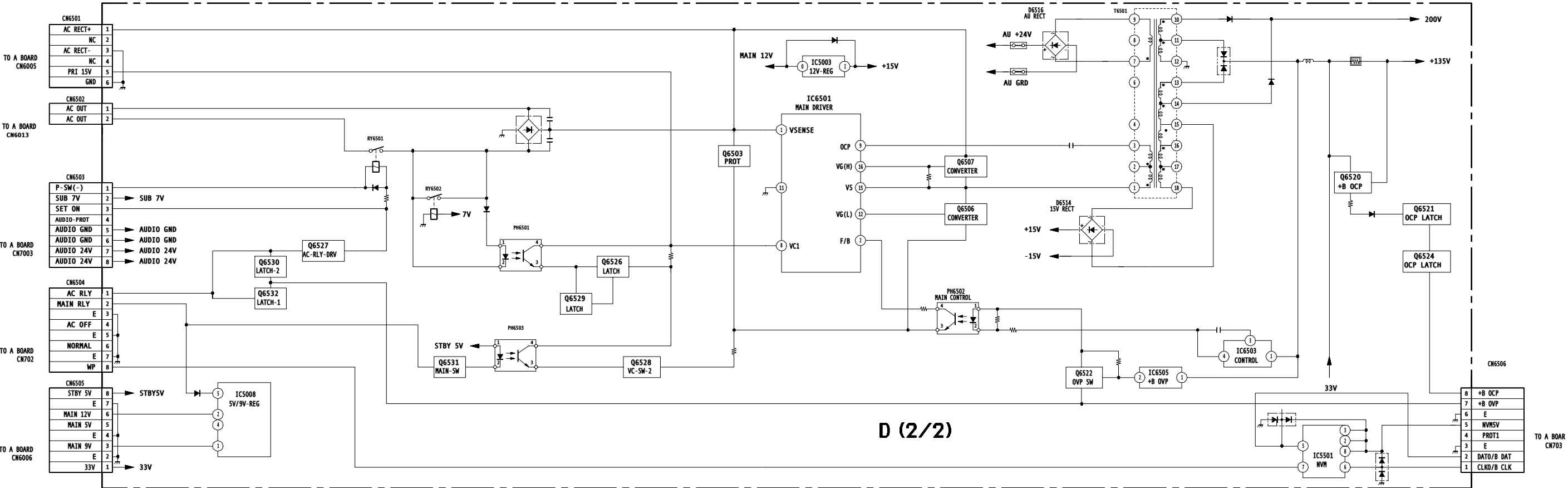
: TA TANTALUM
 : PS STYROL
 : PP POLYPROPYLENE
 : PT MYLAR
 : MPS METALIZED POLYESTER
 : MPP METALIZED POLYPROPYLENE
 : ALB BIPOLAR
 : ALT HIGH TEMPERATURE
 : ALR HIGH RIPPLE

COIL

: LF-8L MICRO INDUCTOR

5-3. BLOCK DIAGRAM AND SCHEMATICS
BLOCK DIAGRAM (1 OF 5)









B (2/2)





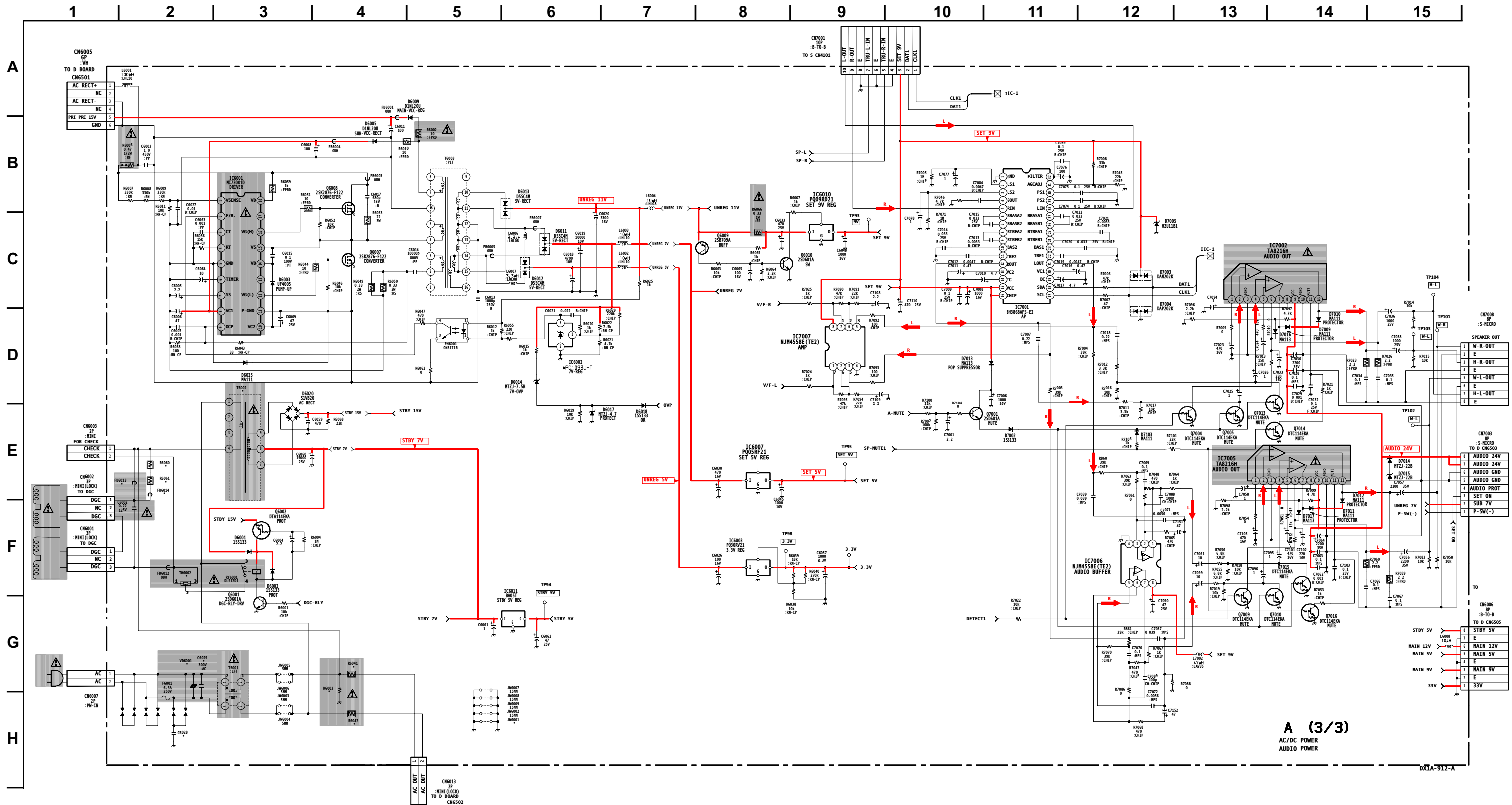
	B	C	E		B	C	E		B	C	E	
Q001	0.4	0.0	GND	Q702	0.1	5.0	0.0		Q731	0.0	0.0	5.0
Q002	0.4	0.0	GND	Q703	4.6	5.0	GND	Q6001	0.0	18.0	GND	
Q004	4.6	1.1	5.0	Q704	0.0	4.4	GND	Q6002	19.7	18.5	19.8	
Q005	4.3	9.0	3.6	Q705	5.0	0.0	0.0	Q6009	10.3	0.0	10.9	
Q012	0.1	7.5	GND	Q706	5.0	0.0	0.0	Q6010	0.0	9.0	GND	
Q015	6.2	9.0	5.5	Q707	0.5	0.0	GND	Q7001	0.3	0.0	0.0	
Q027	4.5	0.0	5.0	Q709	10.4	0.7	10.2	Q7004	0.3	8.0	GND	
Q203	2.3	GND	3.2	Q710	19.5	0.0	19.9	Q7005	0.0	0.0	GND	
Q204	2.5	GND	3.2	Q712	0.0	5.0	0.0	Q7009	0.3	8.0	GND	
Q207	2.3	GND	3.2	Q717	0.0	5.0	GND	Q7010	0.0	0.7	GND	
Q208	2.3	GND	3.2	Q721	0.0	0.0	GND	Q7013	0.0	0.0	GND	
Q209	0.8	2.2	GND	Q723	0.2	4.6	GND	Q7014	0.0	4.1	GND	
Q211	2.8	11.5	2.3	Q724	0.5	4.6	GND	Q7015	0.0	0.0	GND	
Q212	5.6	9.0	5.0	Q726	0.0	0.1	6.3	Q7016	0.0	4.2	GND	
Q214	0.0	0.0	GND	Q727	0.0	0.1	6.3		D	G	S	
Q216	4.5	GND	3.9	Q728	0.1	0.0	GND	Q6007	150.4	4.7	0.0	
Q217	4.4	8.7	3.9	Q729	0.1	0.0	GND	Q6008	303.0	154.6	150.0	
Q701	4.7	4.7	5.0	Q730	10.4	0.7	10.2					

All voltages are in V.

All voltages are in V.

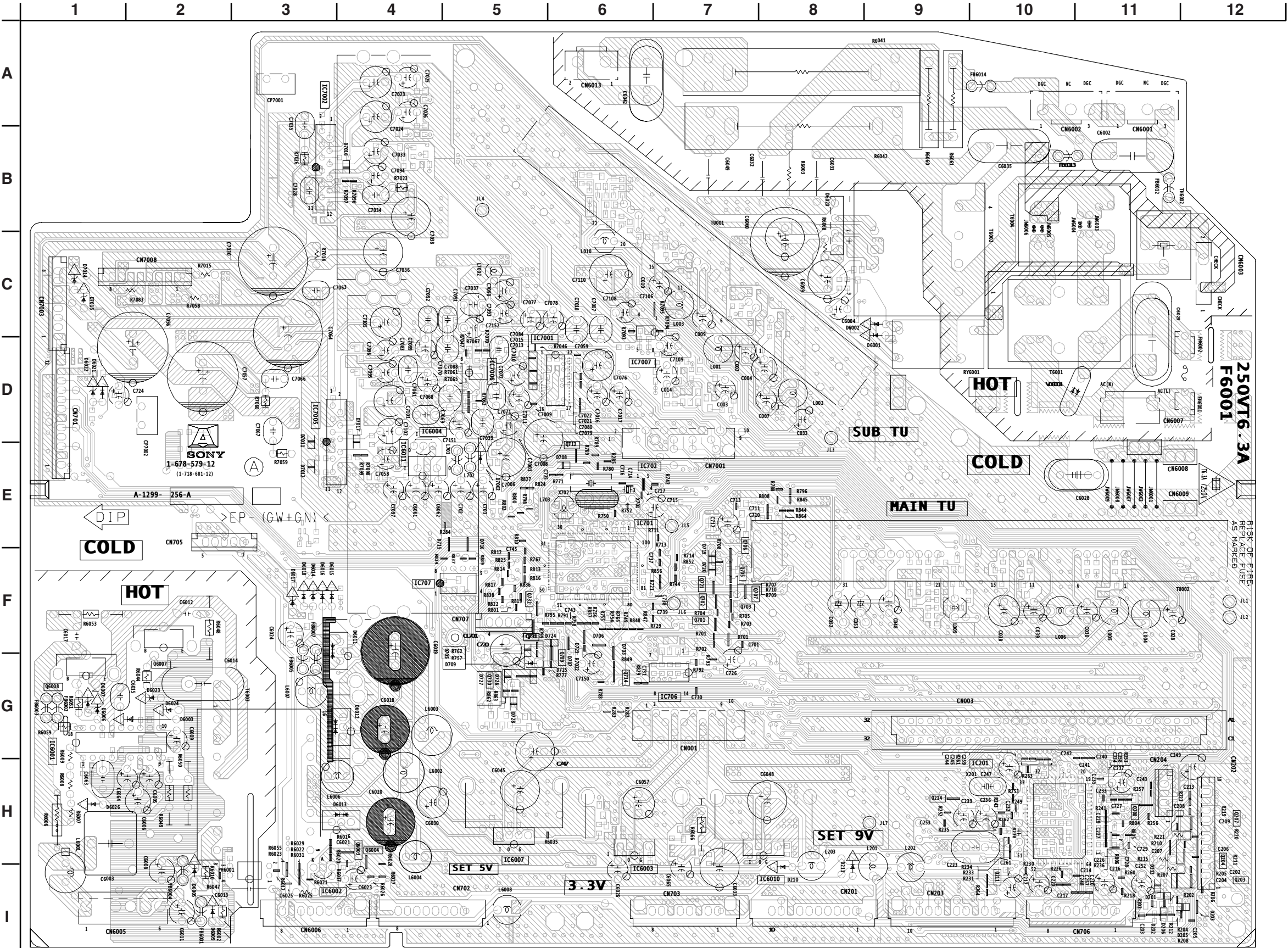


A BOARD SCHEMATIC DIAGRAM (3 OF 3)



A [TUNER, CRT DRIVE, U-COM, AC/DC POWER, AUDIO POWER]

COMPONENT SIDE

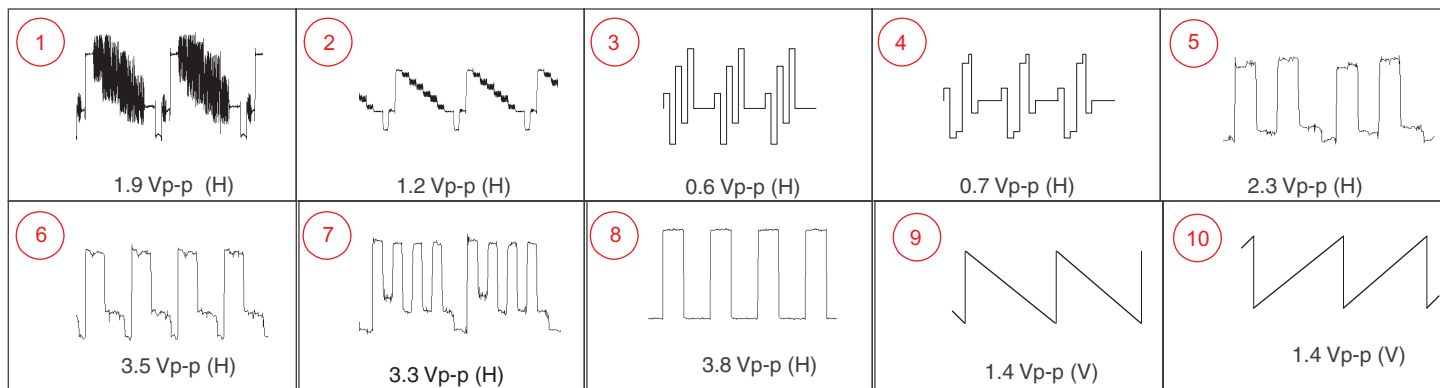


A BOARD LOCATOR LIST
(COMPONENT SIDE)

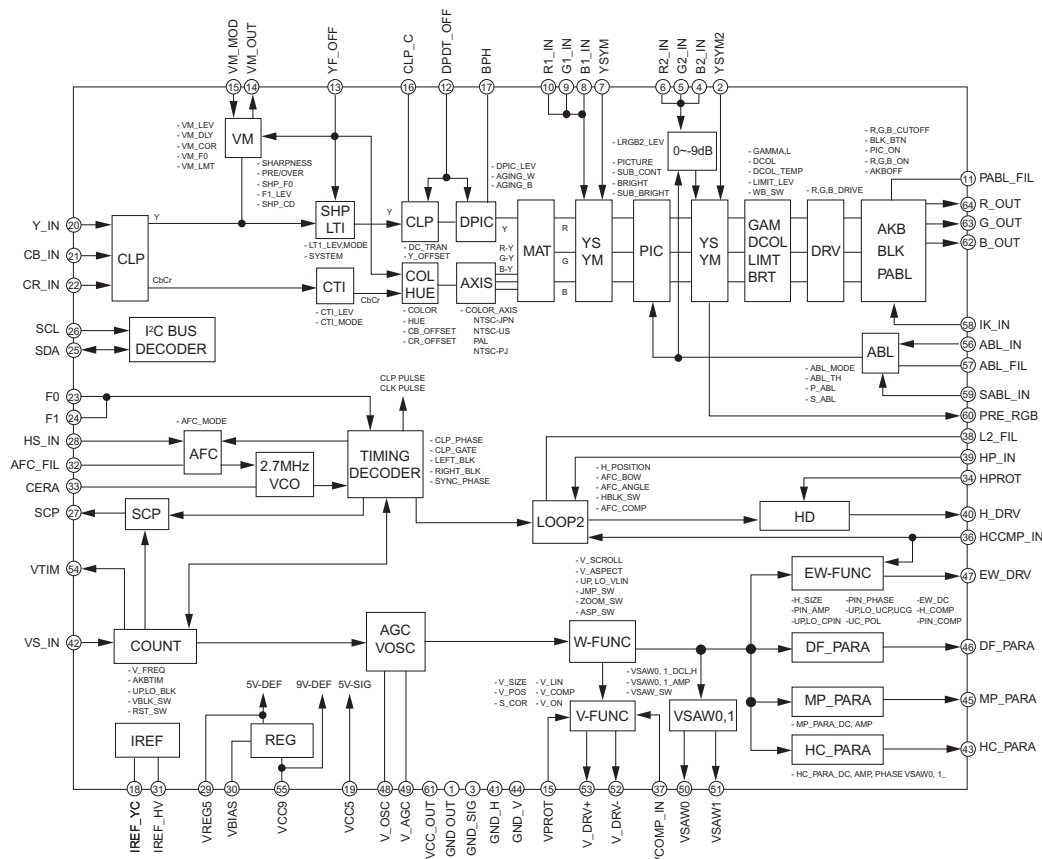
DIODE		IC	
D203	I-12	IC201	H-10
D211	I-8	IC701	E-6
D212	H-8	IC702	E-6
D701	D-4	IC707	F-4
D703	F-6	IC6001	G-1
D705	F-4	IC6002	I-4
D706	F-6	IC6003	I-7
D707	G-6	IC6007	H-5
D708	E-6	IC6010	I-8
D709	G-5	IC6011	E-4
D715	E-4	IC7001	D-6
D716	E-5	IC7002	A-3
D719	F-7	IC7005	D-3
D720	F-7	IC7006	D-5
D723	F-6	IC7007	D-6
D724	F-5	TRANSISTOR	
D725	G-6	Q203	I-12
D726	G-5	Q204	I-12
D727	G-5	Q207	H-12
D728	G-5	Q208	H-11
D6001	C-9	Q211	I-10
D6002	C-8	Q214	H-9
D6003	G-2	Q701	F-7
D6005	I-2	Q702	F-7
D6009	I-2	Q703	F-7
D6011	F-4	Q705	F-7
D6012	G-4	Q706	F-7
D6013	H-4	Q707	F-7
D6014	F-3	Q709	G-6
D6017	F-3	Q712	D-6
D7002	E-5	Q730	G-5
D7011	D-3	Q731	F-5
D7012	E-3	Q6007	G-2
D7014	C-1	Q6008	G-1
D7015	C-1		
D7016	B-4		
D7017	D-4		

DIODE		Q209	B-11
D004	F-7	Q212	B-10
D008	F-7	Q216	A-10
D214	B-10	Q217	A-11
D215	B-10	Q704	D-8
D710	D-7	Q710	F-1
D711	D-7	Q717	D-5
D721	F-1	Q723	D-7
D722	F-1	Q724	E-7
D6018	D-3	Q726	C-5
D6025	D-3	Q727	C-5
D7003	E-5	Q728	C-6
D7004	E-5	Q729	C-5
D7005	E-5	Q6001	G-9
D7009	H-4	Q6002	G-10
D7010	H-4	Q6009	B-7
D7013	F-5	Q6010	A-7
D7103	E-4	Q7001	E-5
TRANSISTOR		Q7004	H-4
Q001	F-7	Q7005	I-4
Q002	F-7	Q7009	F-4
Q004	D-9	Q7010	F-4
Q005	H-6	Q7013	H-4
Q012	D-10	Q7014	H-4
Q015	D-10	Q7015	F-4
Q027	H-6	Q7016	E-4

A BOARD WAVEFORMS



A BOARD: IC 201 CXA2150AQ



(*) A BOARD VARIANT MODEL LIST

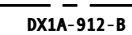
REF. NO.	LOCATION	KV-38DRC2	KV-38DRC2C
C6028	H-2	#	0.0047μF 250V
C6029	G-2	0.47μF 125V	0.47μF 300V
FB6013	E-1	0μH	#
FB6014	E-2	#	0μH
JW6001	G-5	15MM	#
R6003	G-4	2.2M 1/2W	8.2M 1W
R6041	G-4	0.47 20W	1 20W
R6042	H-4	0.47 20W	1 20W
R6060	E-2	#	3.3 10W
R6061	E-2	#	3.3 10W
T6002	D-3	1-435-675-11	1-435-676-11
TH6002	F-2	1-803-970-11	1-803-540-11
VDR6001	G-2	ERZV10D271	ENE471D-14A

NOTE: # = Not Mounted

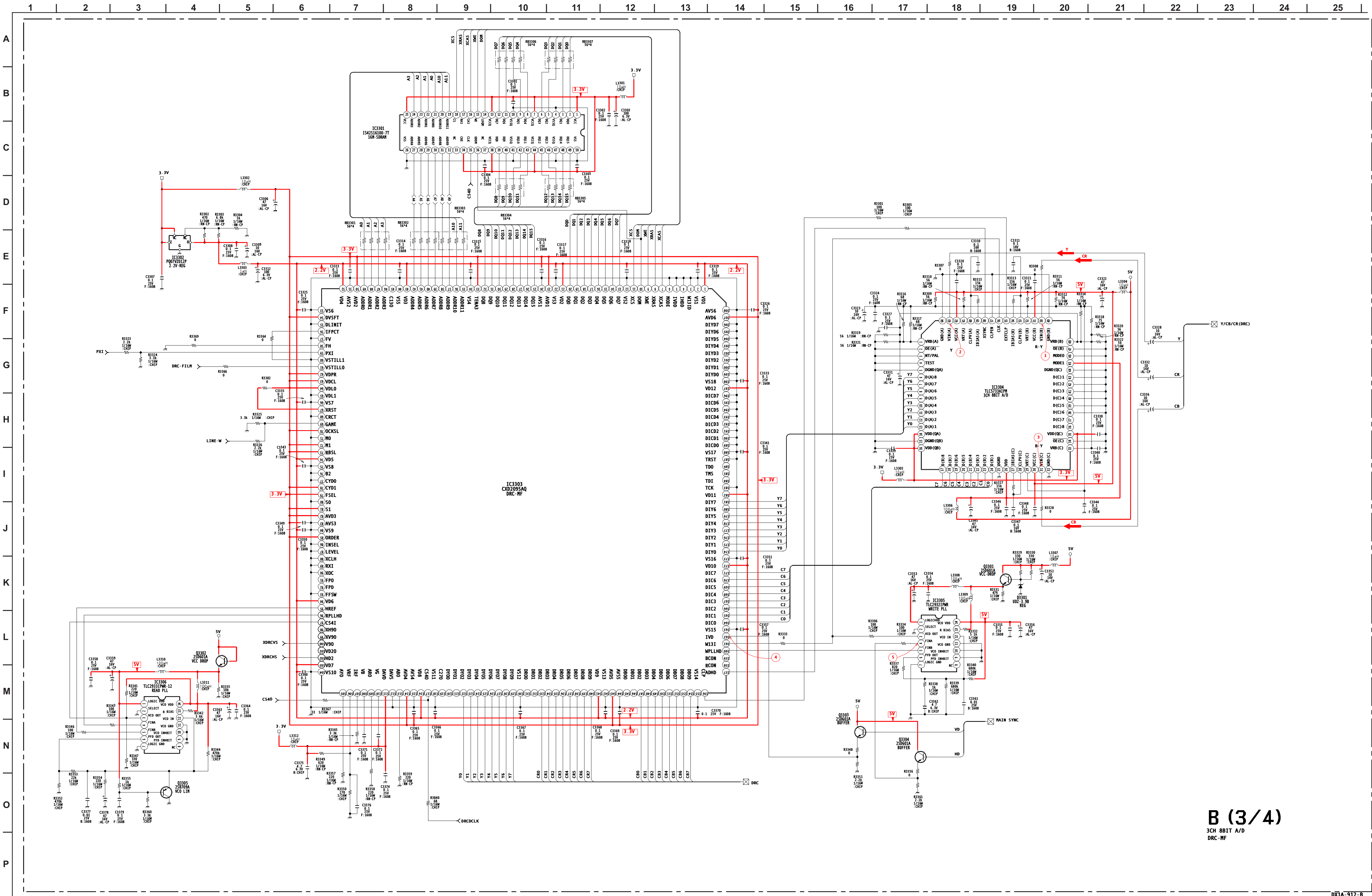
A BOARD IC VOLTAGE LIST

IC201		47	3.9	29	4.9	77	0.0	6	0.0	9	4.4	9	23.7
PIN	VOLT	48	4.4	30	4.9	78	0.0	7	4.6	10	4.4	10	0.0
1	GND	49	5.4	31	4.4	79	0.0	8	17.3	11	4.4	11	4.2
2	0.0	50	3.5	32	0.0	80	N/C	9	0.0	12	4.4	12	10.5
3	GND	51	3.8	33	0.0	81	0.0	10	10.4	13	0.8	IC7006	
4	3.1	52	3.4	34	0.0	82	0.0	11	GND	14	1.9	PIN	VOLT
5	3.1	53	3.5	35	N/C	83	0.0	12	4.7	15	9.0	1	4.5
6	3.1	54	1.0	36	0.0	84	0.0	13	N/C	16	9.0	2	4.5
7	0.0	55	9.0	37	4.6	85	0.0	14	160.6	17	4.5	3	4.5
8	3.6	56	1.0	38	0.0	86	N/C	15	150.4	18	4.6	4	GND
9	3.6	57	4.3	39	0.0	87	0.0	16	154.6	19	1.9	5	4.5
10	3.6	58	3.9	40	0.0	88	0.0	17	N/C	20	0.8	6	4.5
11	0.0	59	1.7	41	2.3	89	0.0	18	303.1	21	4.4	7	4.5
12	0.5	60	1.7	42	0.0	90	0.0	IC6002		22	4.4	8	9.0
13	0.5	61	9.0	43	4.6	91	0.0	PIN	VOLT	23	4.4	IC7007	
14	2.3	62	2.3	44	2.8	92	0.0	1	7.3	24	4.4	PIN	VOLT
15	3.7	63	2.5	45	0.1	93	0.0	2	GND	25	4.4	1	4.5
16	2.7	64	2.3	46	0.0	94	4.6	3	2.5	26	4.4	2	4.5
17	2.6	IC701		47	4.6	95	4.6	IC6003		27	4.4	3	4.1
18	1.1	PIN	VOLT	48	5.0	96	GND	PIN	VOLT	28	4.4	4	GND
19	4.9	1	N/C	49	5.0	97	4.6	I	5.7	29	4.4	5	4.5
20	3.6	2	N/C	50	0.0	98	GND	G	GND	30	4.5	6	4.5
21	3.4	3	0.0	51	5.0	99	4.9	O	3.3	31	2.8	7	4.5
22	3.4	4	0.0	52	0.0	100	4.6	IC6007		32	4.4	8	9.0
23	GND	5	0.0	53	3.0	IC702		PIN	VOLT	IC7002		All voltages are in V.	
24	N/C	6	0.0	54	0.0	PIN	VOLT	I	6.3	PIN	VOLT		
25	4.6	7	4.7	55	0.0	1	N/C	G	GND	1	1.6		
26	4.6	8	GND	56	N/C	2	GND	O	5.0	2	0.0		
27	0.7	9	GND	57	N/C	3	GND	IC6010		3	GND		
28	0.0	10	N/C	58	0.0	4	4.9	PIN	VOLT	4	0.0		
29	5.0	11	N/C	59	0.0	5	4.9	I	10.9	5	1.6		
30	5.6	12	4.9	60	0.0	IC707		G	GND	6	8.0		
31	1.3	13	2.3	61	0.0	PIN	VOLT	O	9.0	7	4.0		
32	3.0	14	GND	62	4.9	1	GND	IC6011		8	5.0		
33	1.6	15	2.4	63	4.9	2	GND	PIN	VOLT	9	23.7		
34	0.0	16	4.9	64	GND	3	GND	I	7.0	10	0.0		
35	0.0	17	0.0	65	0.0	4	GND	G	GND	11	4.1		
36	0.2	18	0.0	66	N/C	5	4.6	O	5.0	12	10.5		
37	0.0	19	0.0	67	0.0	6	4.6	IC7001		IC7005			
38	3.2	20	N/C	68	0.0	7	5.0	PIN	VOLT	PIN	VOLT		
39	1.1	21	0.0	69	7.3	8	5.0	1	GND	1	1.6		
40	2.8	22	0.0	70	0.0	IC6001		2	0.0	2	0.0		
41	GND	23	0.0	71	N/C	PIN	VOLT	3	4.5	3	GND		
42	0.0	24	GND	72	6.3	1	3.3	4	4.4	4	0.0		
43	3.8	25	0.0	73	0.0	2	1.8	5	4.4	5	1.6		
44	GND	26	N/C	74	0.0	3	2.2	6	4.4	6	8.0		
45	2.8	27	N/C	75	GND	4	2.5	7	4.4	7	11.0		
46	3.6	28	4.4	76	0.0	5	GND	8	4.4	8	5.0		



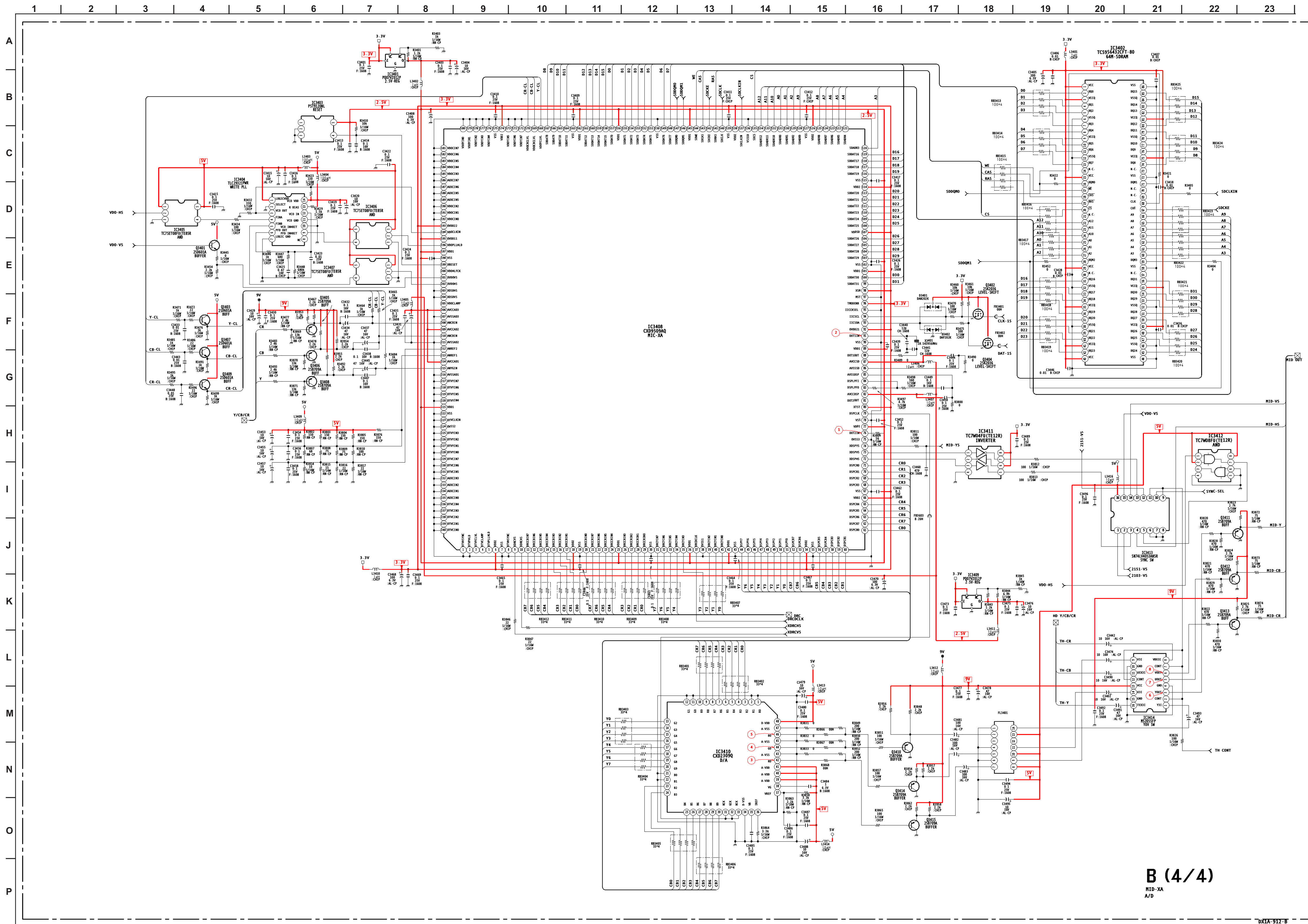


B BOARD SCHEMATIC DIAGRAM (3 OF 4)

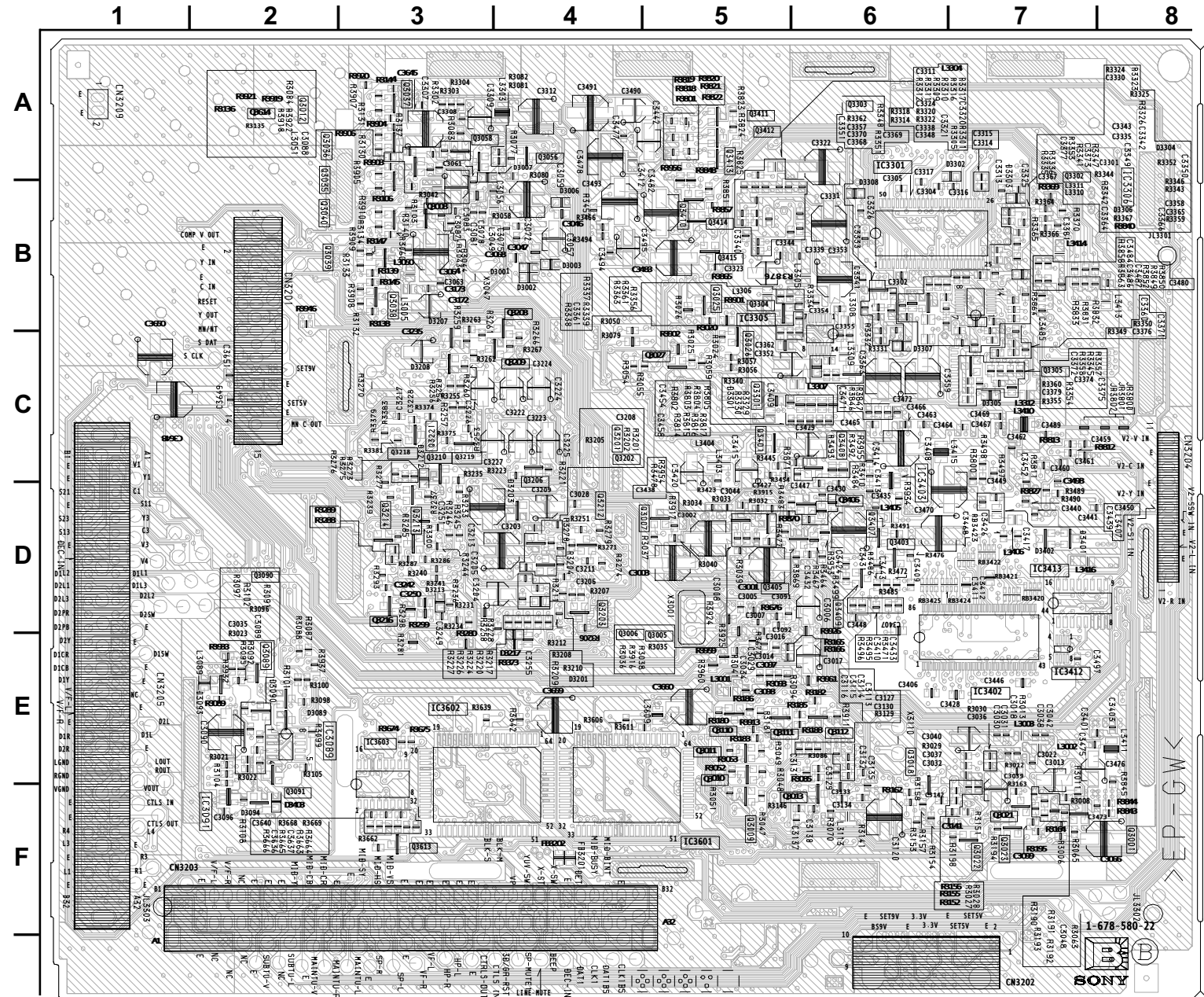


B (3/4)
3CH 8BIT A/D
DRC-MF

B BOARD SCHEMATIC DIAGRAM (4 OF 4)



CONDUCTOR SIDE

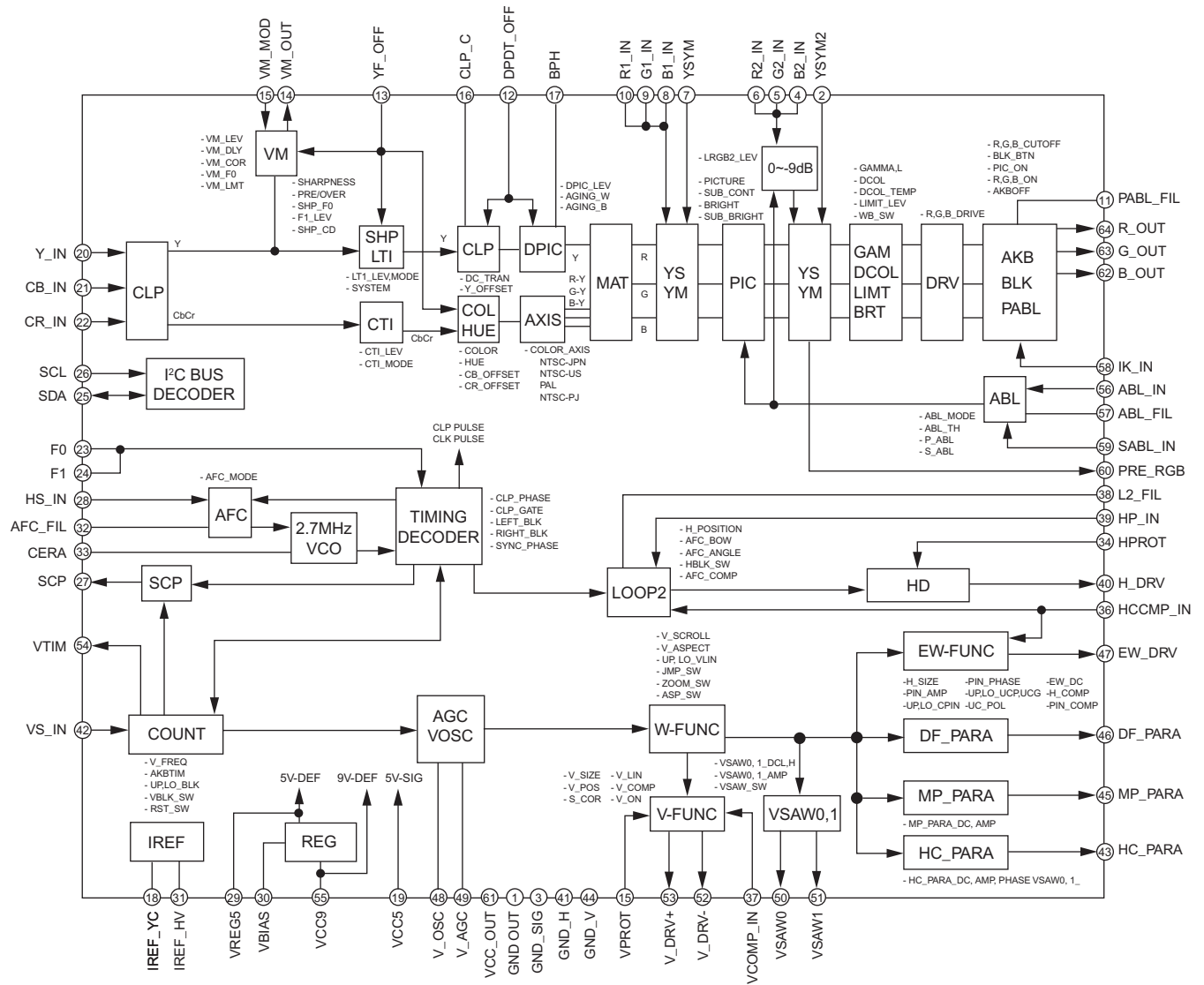


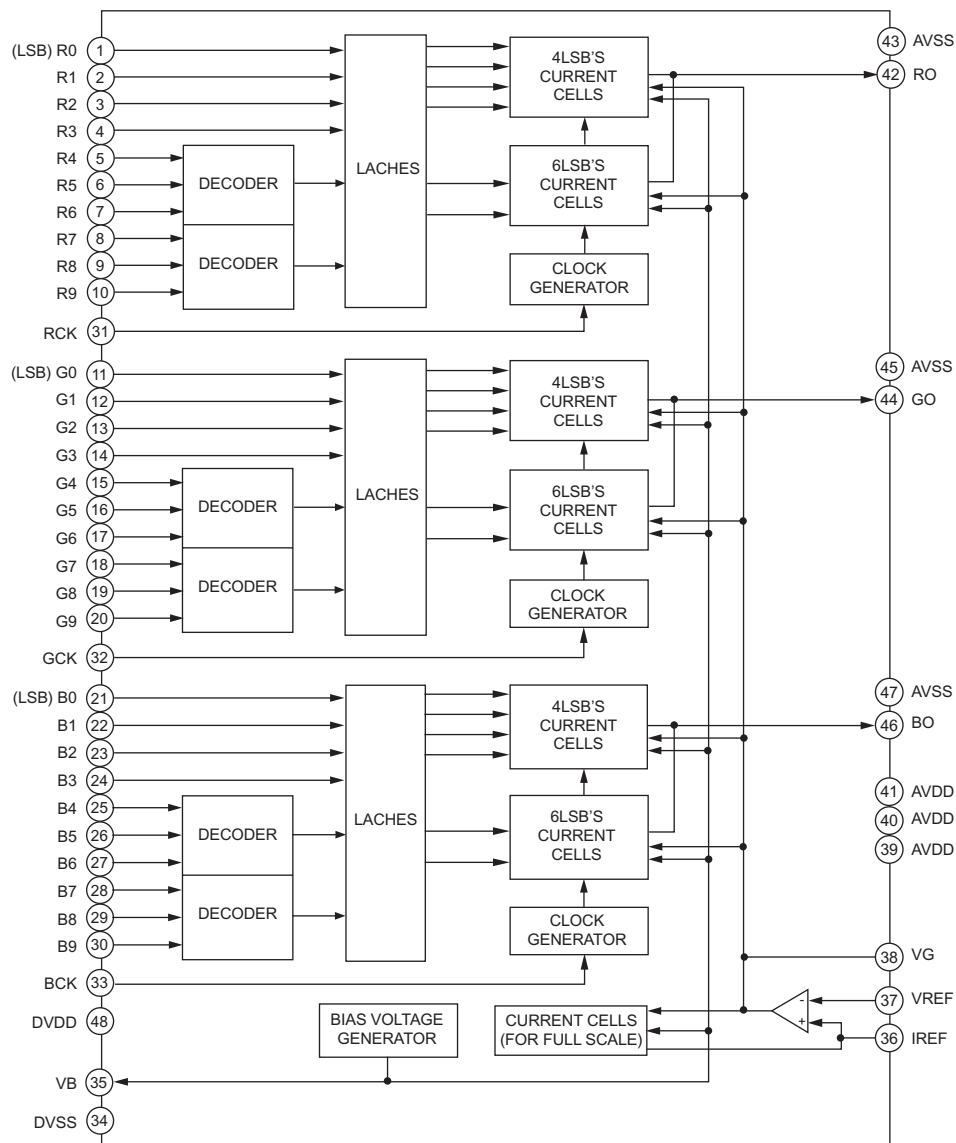
B BOARD LOCATOR LIST (CONDUCTOR SIDE)

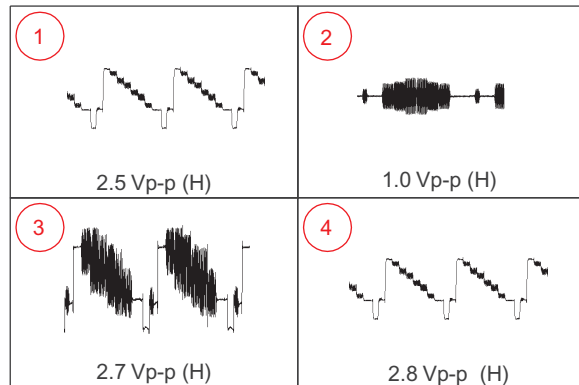
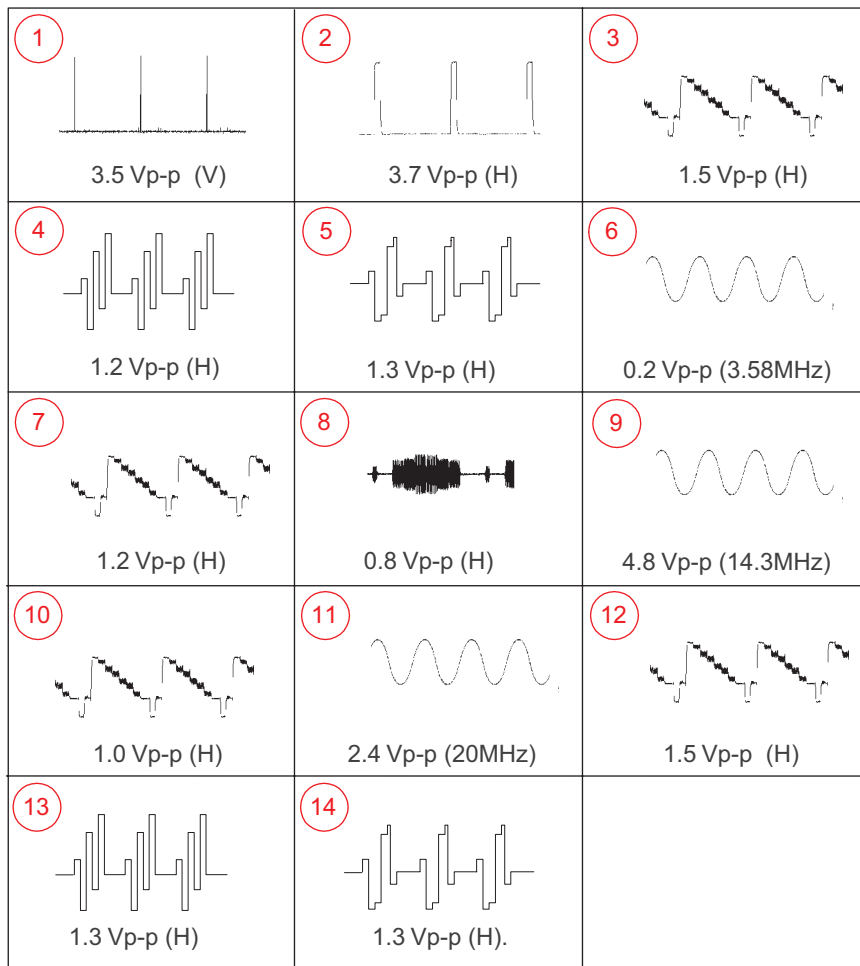
DIODE		D3401	D-7	IC3412	E-8	Q3010	E-5	Q3038	B-3	Q3202	C-4	Q3304	B-5	Q3413	A-5
D3001	B-4	D3402	D-7	IC3413	D-7	Q3011	E-5	Q3039	B-2	Q3203	D-4	Q3305	C-7	Q3414	B-5
D3002	B-4	D3403	F-2	IC3601	F-5	Q3018	E-6	Q3040	B-2	Q3206	C-4	Q3401	C-5	Q3415	B-5
D3003	B-4	D3217	E-4	IC3602	E-3	Q3021	F-7	Q3056	A-4	Q3208	B-4	Q3403	D-6	Q3613	F-3
D3006	B-4	IC		IC3603	E-3	Q3022	F-7	Q3058	A-3	Q3209	C-4	Q3405	D-5		
D3007	B-4	IC3089	E-2	TRANSISTOR		Q3023	F-7	Q3089	E-2	Q3210	C-3	Q3406	D-6		
D3089	E-2	IC3091	F-2	Q3001	F-8	Q3025	B-5	Q3090	D-2	Q3213	D-3	Q3407	D-6		
D3090	E-2	IC3301	B-6	Q3005	E-5	Q3026	B-5	Q3091	F-2	Q3214	D-3	Q3408	C-6		
D3201	E-4	IC3305	B-5	Q3006	E-5	Q3027	B-5	Q3110	E-5	Q3216	D-3	Q3409	D-6		
D3212	C-3	IC3306	B-8	Q3007	D-5	Q3035	B-2	Q3111	E-5	Q3301	C-5	Q3410	B-5		
D3213	D-3	IC3402	E-7	Q3008	B-3	Q3036	A-2	Q3112	E-6	Q3302	A-7	Q3411	A-5		
D3301	C-5	IC3403	C-6	Q3009	F-5	Q3037	A-3	Q3201	C-4	Q3303	A-6	Q3412	A-5		

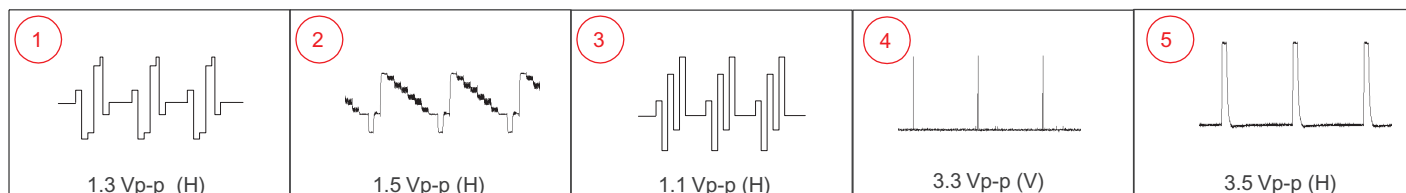
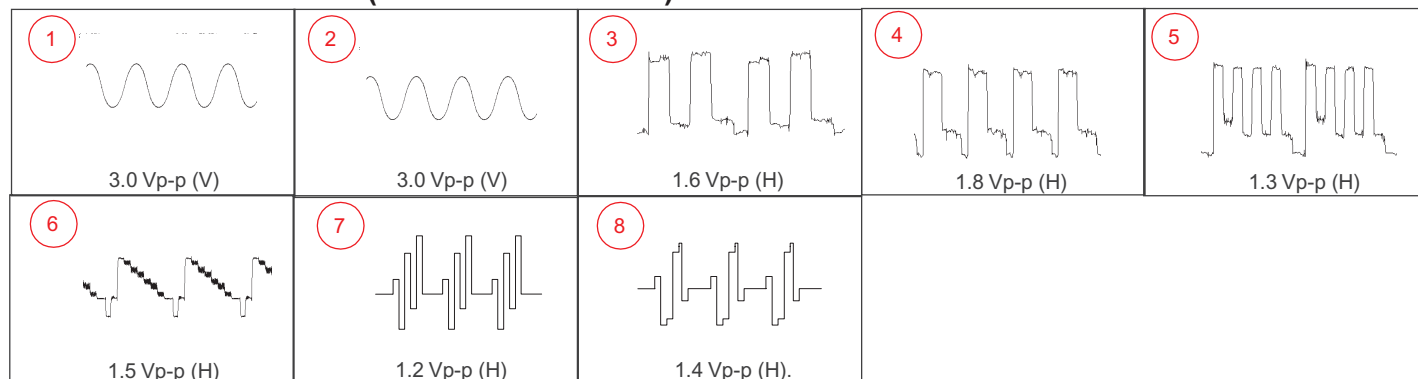
IC DIAGRAMS

B BOARD: IC3001 CXA2151Q



B BOARD: IC3410 CXD2309Q

B BOARD WAVEFORMS (SCHEMATIC 1 OF 4)**B BOARD WAVEFORMS (SCHEMATIC 2 OF 4)**

B BOARD WAVEFORMS (SCHEMATIC 3 OF 4)**B BOARD WAVEFORMS (SCHEMATIC 4 OF 4)****B BOARD TRANSISTOR VOLTAGE LIST**

	B	C	E		B	C	E		B	C	E
Q3001	4.1	9.0	3.4	Q3056	2.1	GND	2.8	Q3304	0.5	4.9	0.2
Q3002	5.1	9.0	5.7	Q3058	1.9	GND	2.5	Q3305	3.2	GND	2.3
Q3003	1.8	GND	5.4	Q3089	4.1	4.7	4.7	Q3401	0.0	4.9	0.0
Q3005	2.2	4.9	1.6	Q3090	4.1	4.7	4.7	Q3402	4.6	3.3	3.1
Q3006	2.9	4.9	2.2	Q3091	0.0	8.9	GND	Q3403	1.0	4.9	0.5
Q3007	2.9	4.8	2.3	Q3101	3.7	9.0	3.1	Q3404	4.6	3.3	3.1
Q3008	1.0	GND	1.6	Q3102	2.8	9.0	2.2	Q3405	2.3	GND	3.0
Q3009	2.0	GND	0.0	Q3103	1.1	GND	1.7	Q3406	2.3	GND	3.0
Q3010	2.0	GND	0.0	Q3104	1.5	GND	2.1	Q3407	1.7	4.9	1.2
Q3011	1.2	GND	0.0	Q3110	0.8	GND	1.5	Q3408	2.3	GND	3.0
Q3014	2.7	GND	3.3	Q3111	1.2	GND	1.8	Q3409	1.7	4.9	1.2
Q3015	1.0	GND	1.6	Q3112	1.2	GND	1.8	Q3410	0.5	GND	1.2
Q3016	1.1	GND	1.7	Q3201	4.6	2.9	2.5	Q3411	1.5	GND	2.2
Q3017	4.1	4.8	0.7	Q3202	2.7	9.0	2.3	Q3412	1.5	GND	2.2
Q3018	1.5	4.1	0.9	Q3203	3.1	GND	3.7	Q3413	1.5	GND	2.2
Q3021	2.9	9.0	0.7	Q3204	1.8	GND	2.2	Q3414	0.8	GND	1.5
Q3022	7.9	9.0	0.0	Q3205	4.4	9.0	3.8	Q3415	1.4	GND	2.0
Q3023	0.7	7.9	0.3	Q3206	4.9	9.0	4.3	Q3603	1.0	4.9	0.3
Q3025	2.5	5.0	1.4	Q3207	8.9	-1.0	8.9	Q3604	0.0	9.0	0.0
Q3026	2.7	5.0	1.4	Q3208	-0.3	0.0	GND	Q3605	0.0	9.0	0.0
Q3027	2.8	5.0	1.4	Q3209	-0.3	0.0	GND	Q3606	0.0	9.0	0.0
Q3035	5.1	9.0	4.3	Q3210	2.7	GND	3.1	Q3609	1.9	4.9	1.3
Q3036	5.1	9.0	4.3	Q3211	0.4	8.9	GND	Q3610	0.0	9.0	0.0
Q3037	5.1	9.0	4.3	Q3213	3.8	7.9	3.2	Q3611	0.0	9.0	0.0
Q3038	4.9	9.0	4.1	Q3214	7.9	5.8	8.5	Q3612	0.0	9.0	0.0
Q3039	4.9	9.0	4.1	Q3215	8.5	0.0	9.0	Q3613	3.7	4.9	3.0
Q3040	4.9	9.0	4.1	Q3216	0.1	4.9	GND	Q3617	0.5	4.7	GND
Q3049	5.3	8.9	4.7	Q3217	3.6	9.0	3.1	Q3618	0.2	4.7	GND
Q3051	2.3	GND	3.0	Q3301	3.9	4.9	3.4	Q3619	0.5	0.1	GND
Q3053	2.0	GND	2.6	Q3302	4.9	4.9	3.4	Q3620	0.2	0.2	GND
Q3054	5.7	8.9	5.1	Q3303	0.5	4.9	0.1				

All voltages are in V.

B BOARD IC VOLTAGE LIST (1 OF 5)

IC3001		3	2.7	5	0.0	41	1.7	35	N/C	89	5.0	34	N/C
PIN	VOLT	4	2.8	6	GND	42	2.4	36	N/C	90	GND	35	N/C
1	3.2	5	0.0	7	GND	43	GND	37	N/C	91	N/C	36	2.6
2	3.2	6	GND	8	GND	44	N/C	38	N/C	92	N/C	37	N/C
3	3.2	7	GND	9	4.9	45	3.1	39	N/C	93	GND	38	N/C
4	1.2	8	GND	10	4.9	46	2.8	40	N/C	94	N/C	39	N/C
5	1.0	9	4.9	11	0.0	47	4.8	41	GND	95	2.9	40	1.7
6	GND	10	4.9	12	0.3	48	3.1	42	0.0	96	0.0	41	1.8
7	N/C	11	4.9	13	0.6	IC3089		43	5.0	97	2.9	42	2.4
8	N/C	12	0.1	14	0.3	PIN	VOLT	44	5.0	98	4.3	43	0.0
9	N/C	13	2.6	15	0.6	1	GND	45	4.9	99	2.9	44	2.4
10	1.0	14	2.7	16	4.9	2	GND	46	GND	100	4.3	45	3.4
11	0.9	15	2.5	IC3048		3	0.0	47	GND	IC3091		46	2.4
12	4.8	16	4.9	PIN	VOLT	4	GND	48	GND	PIN	VOLT	47	4.8
13	4.0	IC3003		1	1.7	5	4.6	49	N/C	1	N/C	48	3.1
14	4.0	PIN	VOLT	2	0.2	6	4.6	50	N/C	2	GND	All voltages are in V.	
15	2.7	1	1.0	3	4.6	7	4.9	51	N/C	3	GND		
16	2.3	2	GND	4	4.6	8	4.9	52	N/C	4	4.9		
17	1.0	3	4.8	5	GND	IC3090		53	0.0	5	4.9		
18	2.8	4	1.0	6	N/C	PIN	VOLT	54	N/C	IC3110			
19	0.0	5	N/C	7	4.9	1	0.0	55	0.0	PIN	VOLT		
20	2.7	6	4.8	8	2.8	2	0.0	56	N/C	1	1.0		
21	0.0	7	0.5	9	N/C	3	0.0	57	0.0	2	4.6		
22	0.3	8	GND	10	N/C	4	N/C	58	N/C	3	4.6		
23	0.0	9	1.9	11	2.3	5	N/C	59	N/C	4	4.6		
24	GND	10	2.6	12	N/C	6	N/C	60	N/C	5	GND		
25	2.9	11	0.9	13	GND	7	N/C	61	N/C	6	N/C		
26	2.8	12	2.0	14	N/C	8	N/C	62	N/C	7	4.9		
27	2.2	13	GND	15	0.5	9	0.0	63	N/C	8	2.6		
28	4.8	14	0.0	16	2.4	10	0.0	64	N/C	9	N/C		
29	GND	15	GND	17	2.0	11	N/C	65	2.6	10	N/C		
30	4.6	16	GND	18	3.1	12	N/C	66	N/C	11	2.4		
31	4.6	17	N/C	19	N/C	13	N/C	67	N/C	12	N/C		
32	GND	18	GND	20	0.5	14	N/C	68	N/C	13	GND		
33	3.1	19	4.9	21	0.0	15	N/C	69	N/C	14	N/C		
34	3.1	20	N/C	22	1.8	16	N/C	70	N/C	15	0.5		
35	3.1	21	4.9	23	2.1	17	N/C	71	N/C	16	N/C		
36	3.2	22	GND	24	2.0	18	N/C	72	N/C	17	1.6		
37	3.2	23	N/C	25	3.4	19	N/C	73	GND	18	2.8		
38	N/C	24	GND	26	3.4	20	N/C	74	5.0	19	N/C		
39	N/C	25	2.4	27	3.4	21	N/C	75	GND	20	0.5		
40	4.8	26	4.8	28	0.0	22	N/C	76	N/C	21	0.0		
41	3.1	27	2.2	29	N/C	23	N/C	77	N/C	22	1.2		
42	3.1	28	2.2	30	N/C	24	N/C	78	N/C	23	2.0		
43	3.1	29	4.8	31	N/C	25	GND	79	N/C	24	1.9		
44	3.3	30	GND	32	4.8	26	GND	80	N/C	25	3.4		
45	3.2	31	GND	33	3.4	27	N/C	81	N/C	26	3.4		
46	N/C	32	1.0	34	3.1	28	N/C	82	GND	27	3.4		
47	N/C	IC3004		35	0.0	29	N/C	83	GND	28	N/C		
48	GND	PIN	VOLT	36	2.6	30	N/C	84	GND	29	N/C		
IC3002		1	0.6	37	3.4	31	N/C	85	GND	30	N/C		
PIN	VOLT	2	0.5	38	3.1	32	0.0	86	GND	31	N/C		
1	2.4	3	0.5	39	3.1	33	0.0	87	N/C	32	4.8		
2	0.0	4	0.5	40	1.7	34	N/C	88	N/C	33	N/C		

B BOARD IC VOLTAGE LIST (2 OF 5)

IC3201		52	4.5	IC3301		IC3302		44	GND	96	2.0	148	1.6	200	GND
PIN	VOLT	53	3.8	PIN	VOLT	PIN	VOLT	45	N/C	97	1.3	149	2.2	201	GND
1	3.9	54	4.5	1	3.3	I	3.3	46	0.0	98	N/C	150	2.4	202	GND
2	4.4	55	N/C	2	1.5	G	GND	47	0.0	99	N/C	151	2.3	203	GND
3	3.9	56	3.4	3	1.6	O	2.2	48	0.0	100	0.0	152	2.3	204	GND
4	4.4	57	GND	4	GND	VC	3.3	49	0.0	101	N/C	153	2.0	205	GND
5	4.4	58	4.3	5	1.5	NC	0.0	50	3.3	102	0.2	154	1.2	206	GND
6	N/C	59	4.4	6	1.5	IC3303		51	GND	103	2.2	155	GND	207	3.3
7	4.9	60	3.9	7	3.3	PIN	VOLT	52	2.2	104	GND	156	1.6	208	GND
8	4.0	61	4.4	8	1.9	1	2.2	53	GND	105	0.4	157	3.3	All voltages are in V.	
9	4.5	62	4.4	9	1.8	2	GND	54	3.3	106	1.0	158	N/C		
10	4.4	63	4.8	10	GND	3	GND	55	GND	107	1.0	159	N/C		
11	4.5	64	4.4	11	1.2	4	GND	56	GND	108	1.0	160	0.8		
12	4.4	IC3202		12	0.5	5	GND	57	GND	109	0.5	161	0.9		
13	N/C	PIN	VOLT	13	3.3	6	GND	58	GND	110	2.2	162	0.0		
14	N/C	1	GND	14	3.2	7	1.9	59	0.0	111	3.3	163	GND		
15	4.4	2	4.4	15	3.2	8	2.0	60	GND	112	GND	164	1.4		
16	4.4	3	9.0	16	3.2	9	2.0	61	0.0	113	0.5	165	1.9		
17	3.9	4	4.4	17	3.2	10	0.3	62	3.3	114	3.3	166	1.8		
18	4.4	5	4.4	18	3.2	11	1.9	63	3.3	115	GND	167	1.9		
19	4.4	6	4.4	19	0.0	12	GND	64	3.3	116	2.2	168	1.9		
20	N/C	7	N/C	20	0.0	13	0.6	65	GND	117	0.0	169	1.9		
21	4.9	8	N/C	21	0.0	14	1.0	66	GND	118	GND	170	1.9		
22	4.3	9	N/C	22	0.0	15	1.9	67	3.3	119	N/C	171	1.3		
23	4.4	10	4.4	23	0.0	16	1.3	68	GND	120	N/C	172	2.2		
24	3.9	11	4.4	24	0.0	17	1.0	69	0.0	121	N/C	173	GND		
25	4.4	12	4.4	25	3.3	18	1.0	70	3.3	122	1.4	174	1.5		
26	4.4	13	4.4	26	GND	19	1.2	71	GND	123	1.3	175	1.6		
27	N/C	14	N/C	27	0.0	20	1.0	72	3.3	124	1.4	176	1.3		
28	4.9	15	N/C	28	0.0	21	2.2	73	3.3	125	1.4	177	1.0		
29	N/C	16	4.4	29	0.0	22	GND	74	2.2	126	1.0	178	2.3		
30	N/C	17	4.4	30	0.0	23	3.3	75	GND	127	0.9	179	0.7		
31	N/C	18	4.4	31	0.0	24	GND	76	GND	128	1.1	180	1.6		
32	GND	19	4.4	32	0.0	25	0.8	77	GND	129	0.9	181	0.8		
33	4.4	20	N/C	33	N/C	26	0.8	78	3.3	130	GND	182	2.2		
34	4.6	21	N/C	34	3.3	27	0.6	79	3.3	131	N/C	183	GND		
35	GND	22	N/C	35	1.7	28	1.2	80	GND	132	N/C	184	N/C		
36	N/C	23	4.4	36	0.5	29	0.7	81	3.3	133	1.6	185	N/C		
37	N/C	24	4.4	37	N/C	30	0.9	82	3.3	134	1.6	186	N/C		
38	4.5	25	4.4	38	3.3	31	1.0	83	GND	135	2.2	187	GND		
39	N/C	26	GND	39	1.6	32	0.9	84	GND	136	2.2	188	GND		
40	4.5	27	4.6	40	1.6	33	3.3	85	3.3	137	2.2	189	GND		
41	4.5	28	4.6	41	GND	34	GND	86	GND	138	2.1	190	GND		
42	9.0	IC3203		42	1.5	35	0.0	87	GND	139	2.2	191	GND		
43	4.5	PIN	VOLT	43	1.5	36	0.0	88	GND	140	1.1	192	GND		
44	4.4	1	4.4	44	3.3	37	0.0	89	GND	141	2.2	193	GND		
45	4.5	2	4.4	45	1.8	38	0.0	90	GND	142	GND	194	GND		
46	N/C	3	4.4	46	2.0	39	0.0	91	N/C	143	3.3	195	GND		
47	4.4	4	GND	47	GND	40	0.0	92	N/C	144	GND	196	GND		
48	N/C	5	4.4	48	1.7	41	0.0	93	GND	145	N/C	197	2.2		
49	4.1	6	4.4	49	1.2	42	0.0	94	2.2	146	N/C	198	GND		
50	4.5	7	4.4	50	GND	43	2.2	95	1.0	147	1.6	199	GND		
51	4.4	8	9.0												

B BOARD IC VOLTAGE LIST (3 OF 5)

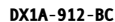
IC3304		51	4.8	N/C		0.0	50	1.0	7	GND
PIN	VOLT	52	4.4	IC3402		51	1.6	8	N/C	
1	1.6	53	2.4	PIN	VOLT	52	GND	9	0.0	
2	GND	54	2.4	1	3.3	53	0.9	10	GND	
3	GND	55	1.6	2	1.8	54	0.9	11	GND	
4	GND	56	0.5	3	3.3	55	3.3	12	0.9	
5	GND	57	GND	4	1.3	56	1.1	13	3.6	
6	1.2	58	3.3	5	0.9	57	N/C	14	4.8	
7	1.2	59	3.3	6	GND	58	GND	IC3405		
8	0.0	60	1.6	7	2.4	59	2.4	PIN	VOLT	
9	1.9	61	3.2	8	2.2	60	0.0	1	4.8	
10	0.1	62	4.8	9	3.3	61	2.4	2	0.3	
11	0.8	63	2.1	10	0.9	62	2.2	3	GND	
12	2.0	64	GND	11	2.8	63	1.7	4	0.3	
13	1.6	IC3305		12	GND	64	1.7	5	4.8	
14	3.3	PIN	VOLT	13	0.9	65	1.8	IC3406		
15	0.0	1	3.4	14	N/C	66	0.1	PIN	VOLT	
16	3.3	2	GND	15	3.3	67	2.9	1	4.8	
17	0.0	3	1.6	16	0.1	68	1.8	2	0.0	
18	3.2	4	0.2	17	3.1	69	N/C	3	GND	
19	3.2	5	1.3	18	2.9	70	N/C	4	0.0	
20	3.2	6	1.4	19	3.3	71	0.1	5	4.8	
21	3.2	7	GND	20	2.8	72	GND	IC3407		
22	3.2	8	N/C	21	N/C	73	N/C	PIN	VOLT	
23	2.0	9	GND	22	1.7	74	1.8	1	4.8	
24	1.1	10	GND	23	1.7	75	3.3	2	1.0	
25	GND	11	GND	24	0.1	76	1.3	3	GND	
26	4.8	12	1.4	25	0.1	77	0.7	4	2.4	
27	2.4	13	2.2	26	2.3	78	GND	5	4.8	
28	2.4	14	3.4	27	0.1	79	2.5	All voltages are in V.		
29	3.2	IC3306		28	2.4	80	0.7			
30	4.8	PIN	VOLT	29	3.3	81	3.3			
31	2.4	1	4.8	30	N/C	82	1.0			
32	GND	2	GND	31	1.7	83	2.8			
33	1.5	3	1.9	32	GND	84	GND			
34	GND	4	3.3	33	1.6	85	1.1			
35	3.3	5	1.6	34	1.3	86	GND			
36	N/C	6	2.2	35	3.3	IC3403				
37	N/C	7	GND	36	1.6	PIN	VOLT			
38	GND	8	N/C	37	1.7	1	N/C			
39	GND	9	GND	38	GND	2	GND			
40	GND	10	GND	39	0.9	3	GND			
41	GND	11	GND	40	1.7	4	1.7			
42	GND	12	2.3	41	3.3	5	2.5			
43	GND	13	2.1	42	1.1	IC3404				
44	GND	14	4.2	43	3.3	PIN	VOLT			
45	4.9	IC3401		44	GND	1	4.8			
46	GND	PIN	VOLT	45	1.7	2	GND			
47	GND	I	3.3	46	GND	3	2.3			
48	1.5	G	GND	47	1.7	4	0.3			
49	GND	O	2.5	48	1.4	5	2.4			
50	0.0	VC	3.3	49	3.3	6	0.9			

B BOARD IC VOLTAGE LIST (4 OF 5)

IC3408		53	1.4	107	3.3	161	0.7	215	1.0	20	0.8	4	0.1
PIN	VOLT	54	3.3	108	1.7	162	2.5	216	GND	21	GND	5	0.3
1	GND	55	GND	109	1.7	163	GND	217	GND	22	GND	6	GND
2	GND	56	1.6	110	1.1	164	2.5	218	GND	23	1.4	7	GND
3	N/C	57	1.6	111	1.7	165	0.7	219	GND	24	1.5	8	GND
4	N/C	58	1.5	112	0.9	166	1.3	220	GND	25	1.5	9	5.0
5	N/C	59	1.5	113	1.7	167	1.8	221	1.2	26	1.5	10	5.0
6	3.3	60	1.5	114	3.3	168	0.9	222	GND	27	1.5	11	5.0
7	GND	61	1.4	115	GND	169	1.1	223	GND	28	1.5	12	0.0
8	GND	62	2.4	116	1.6	170	1.1	224	GND	29	1.5	13	0.0
9	0.0	63	0.9	117	1.3	171	GND	225	GND	30	1.9	14	0.0
10	0.2	64	0.8	118	1.6	172	GND	226	GND	31	1.6	15	0.0
11	0.0	65	0.9	119	1.7	173	GND	227	GND	32	1.7	16	4.9
12	0.0	66	3.3	120	0.0	174	3.3	228	GND	33	1.6	IC3414	
13	0.0	67	GND	121	2.4	175	GND	229	GND	34	GND	PIN	VOLT
14	0.0	68	0.8	122	2.2	176	GND	230	GND	35	1.0	1	4.6
15	0.0	69	0.6	123	1.7	177	GND	231	GND	36	0.0	2	5.0
16	2.3	70	0.9	124	1.7	178	GND	232	GND	37	2.0	3	3.1
17	1.6	71	0.9	125	1.8	179	GND	233	GND	38	2.6	4	GND
18	3.3	72	3.2	126	3.3	180	GND	234	GND	39	4.8	5	3.1
19	GND	73	3.2	127	GND	181	GND	235	GND	40	4.8	6	3.1
20	0.6	74	0.9	128	0.1	182	GND	236	GND	41	4.8	7	5.0
21	1.1	75	GND	129	0.1	183	GND	237	GND	42	1.0	8	4.6
22	2.2	76	3.3	130	2.3	184	GND	238	GND	43	0.0	9	4.6
23	2.2	77	2.5	131	0.1	185	GND	239	GND	44	0.5	10	GND
24	2.4	78	GND	132	0.1	186	GND	240	GND	45	0.0	11	4.6
25	2.4	79	1.7	133	1.7	187	GND	IC3409		46	0.0	12	5.0
26	2.3	80	3.3	134	1.7	188	GND	PIN	VOLT	47	0.0	13	8.9
27	2.2	81	N/C	135	2.8	189	GND	I	3.3	48	4.8	14	4.6
28	1.6	82	2.5	136	GND	190	GND	G	3.3	IC3411		15	GND
29	0.9	83	2.3	137	1.6	191	GND	O	2.5	PIN	VOLT	16	4.6
30	GND	84	0.4	138	3.3	192	GND	VC	3.3	1	3.2	All voltages are in V.	
31	1.1	85	0.0	139	GND	193	3.3	NC	0.0	2	N/C		
32	1.0	86	0.0	140	1.5	194	2.4	IC3410		3	3.2		
33	1.5	87	2.3	141	0.0	195	2.4	PIN	VOLT	4	GND		
34	1.4	88	1.6	142	2.6	196	0.0	1	GND	5	0.1		
35	1.4	89	2.5	143	3.0	197	2.4	2	GND	6	3.3		
36	2.4	90	GND	144	3.1	198	GND	3	0.9	7	0.0		
37	1.8	91	1.2	145	2.5	199	1.0	4	0.9	8	3.3		
38	GND	92	3.3	146	0.0	200	N/C	5	0.6	IC3412			
39	1.4	93	3.0	147	0.0	201	0.0	6	0.8	PIN	VOLT		
40	1.4	94	3.0	148	0.9	202	1.0	7	0.9	1	0.3		
41	1.5	95	GND	149	2.8	203	GND	8	0.8	2	5.0		
42	2.4	96	3.3	150	GND	204	GND	9	0.9	3	N/C		
43	GND	97	GND	151	0.9	205	N/C	10	2.4	4	GND		
44	0.8	98	3.3	152	2.2	206	2.4	11	GND	5	GND		
45	1.0	99	1.1	153	2.4	207	GND	12	GND	6	GND		
46	0.7	100	0.9	154	0.7	208	1.0	13	1.2	7	0.3		
47	2.4	101	2.5	155	1.3	209	2.4	14	1.1	8	5.0		
48	0.9	102	GND	156	2.5	210	1.0	15	1.0	IC3413			
49	1.0	103	0.9	157	1.8	211	GND	16	0.9	PIN	VOLT		
50	1.1	104	1.6	158	1.1	212	2.0	17	2.4	1	0.0		
51	1.2	105	1.0	159	2.8	213	4.5	18	0.7	2	0.5		
52	1.9	106	1.4	160	1.6	214	2.4	19	1.0	3	0.1		

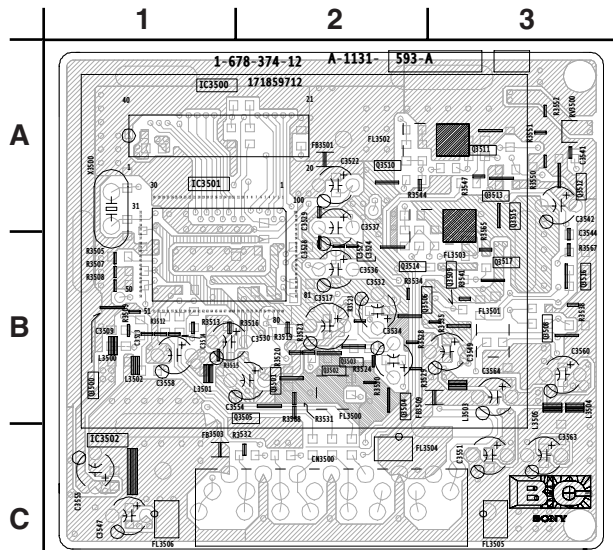
B BOARD IC VOLTAGE LIST (5 OF 5)

IC3601		54	N/C	43	GND
PIN	VOLT	55	N/C	44	N/C
1	N/C	56	N/C	45	N/C
2	N/C	57	N/C	46	N/C
3	N/C	58	N/C	47	N/C
4	N/C	59	N/C	48	4.6
5	N/C	60	N/C	49	N/C
6	N/C	61	N/C	50	4.6
7	0.2	62	N/C	51	N/C
8	0.1	63	N/C	52	N/C
9	4.9	64	N/C	53	N/C
10	GND	IC3602		54	N/C
11	2.4	PIN	VOLT	55	GND
12	2.1	1	N/C	56	GND
13	GND	2	N/C	57	GND
14	GND	3	N/C	58	GND
15	GND	4	N/C	59	GND
16	4.9	5	N/C	60	GND
17	4.9	6	N/C	61	N/C
18	GND	7	0.2	62	N/C
19	GND	8	0.1	63	N/C
20	1.6	9	4.9	64	N/C
21	2.4	10	GND	IC3603	
22	1.5	11	2.4	PIN	VOLT
23	4.9	12	2.2	1	4.9
24	0.0	13	GND	2	GND
25	N/C	14	GND	3	4.9
26	N/C	15	GND	4	1.4
27	N/C	16	4.9	5	4.9
28	N/C	17	GND	6	1.9
29	N/C	18	GND	7	1.6
30	N/C	19	GND	8	GND
31	0.0	20	1.7	9	4.6
32	0.0	21	2.5	10	4.6
33	0.0	22	2.5	11	4.9
34	0.0	23	4.9	12	2.6
35	N/C	24	2.4	13	2.4
36	0.0	25	N/C	14	GND
37	N/C	26	N/C	15	4.6
38	2.4	27	N/C	16	4.6
39	2.4	28	N/C	IC3604	
40	4.9	29	N/C	PIN	VOLT
41	4.9	30	N/C	1	0.1
42	GND	31	0.0	2	0.1
43	GND	32	0.0	3	2.5
44	N/C	33	0.0	4	GND
45	N/C	34	0.0	5	2.5
46	N/C	35	N/C	6	0.0
47	N/C	36	0.0	7	0.1
48	4.6	37	N/C	8	5.0
49	N/C	38	2.4	All voltages are in V.	
50	4.6	39	2.4		
51	N/C	40	4.9		
52	N/C	41	4.9		
53	N/C	42	GND		

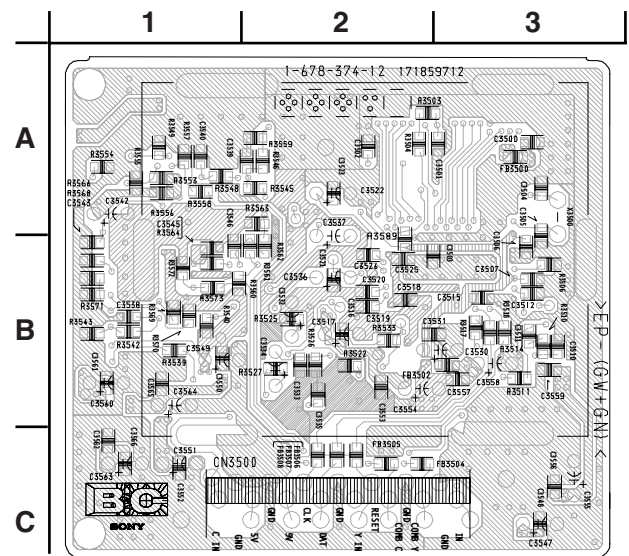




COMPONENT SIDE



CONDUCTOR SIDE



BC BOARD LOCATOR LIST

IC	Q3506	B-3
IC3500	A-1	Q3508
IC3501	A-1	Q3509
IC3502	C-1	Q3510
TRANSISTOR	Q3511	A-3
Q3500	B-1	Q3512
Q3501	B-2	Q3513
Q3502	B-2	Q3514
Q3503	B-2	Q3515
Q3504	B-2	Q3516
Q3505	C-2	Q3517

BC BOARD TRANSISTOR VOLTAGE LIST

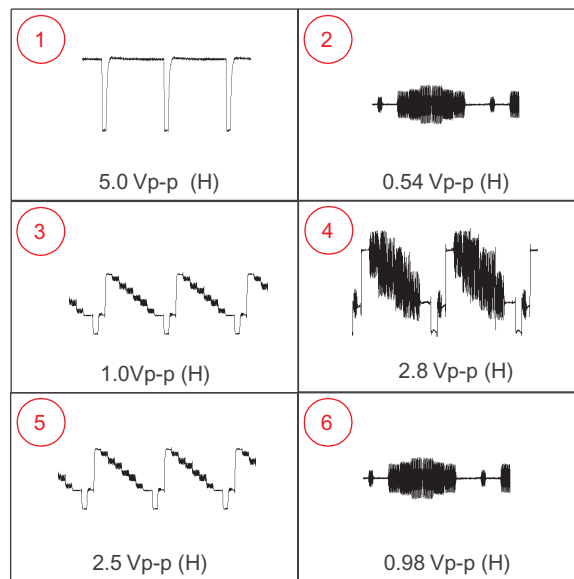
	B	C	E		B	C	E
Q3500	1.7	GND	2.3	Q3510	1.7	GND	2.3
Q3501	0.1	4.2	GND	Q3511	2.9	8.9	2.3
Q3502	4.6	0.4	4.9	Q3512	2.3	6.1	1.7
Q3503	3.3	4.7	4.0	Q3513	6.1	8.9	5.5
Q3504	3.3	GND	4.0	Q3514	1.6	GND	2.3
Q3505	4.3	8.9	3.6	Q3515	2.9	8.9	2.3
Q3506	6.0	8.9	5.3	Q3516	2.3	6.4	1.7
Q3508	2.4	8.9	1.8	Q3517	6.4	8.9	5.7
Q3509	1.6	GND	2.3				

All voltages are in V.

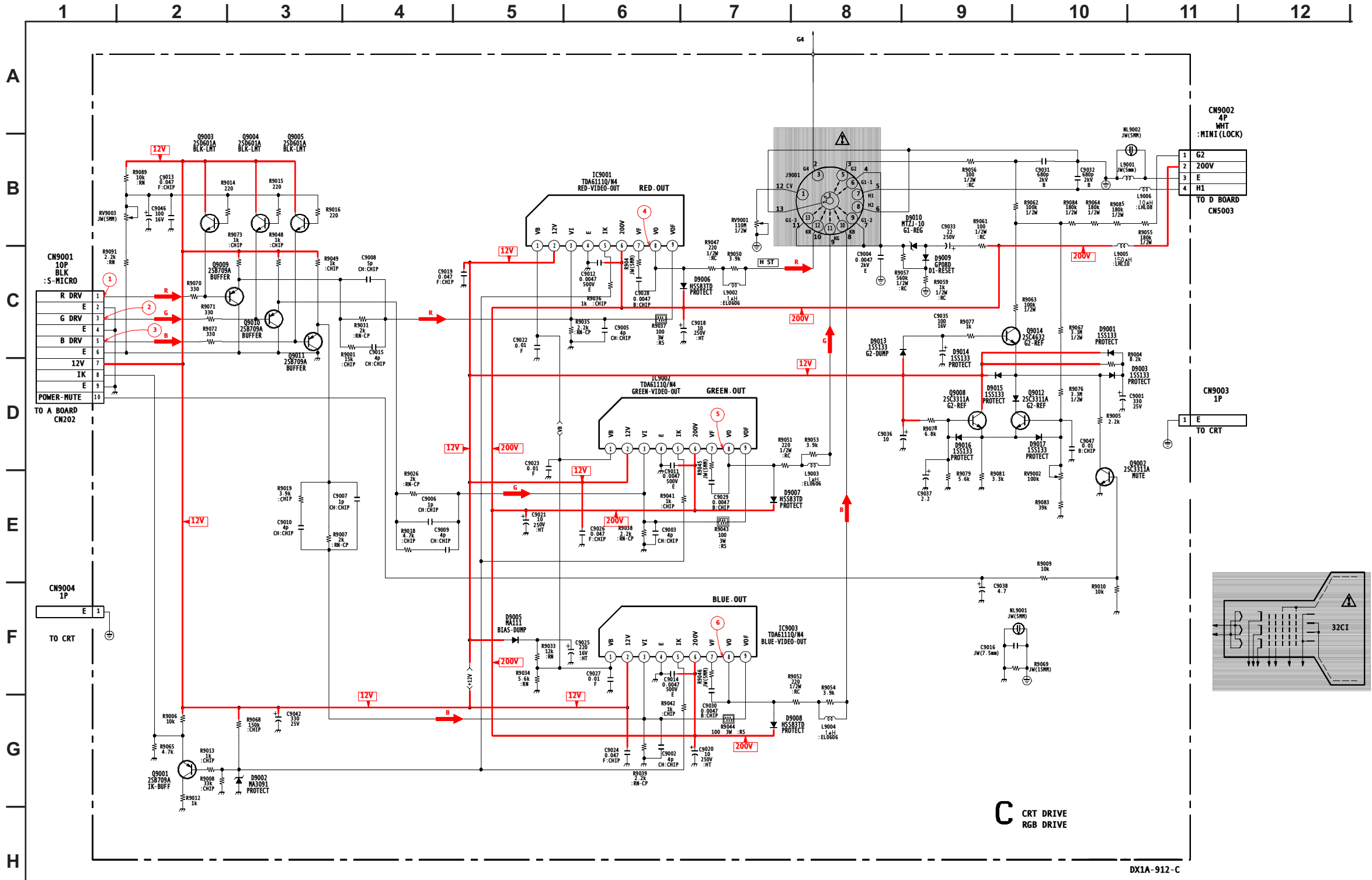
BC BOARD IC VOLTAGE LIST

IC3500		18	1.5	37	1.8	14	2.5	33	N/C	52	0.0	71	N/C	90	0.9
PIN	VOLT	19	1.5	38	1.8	15	1.3	34	N/C	53	3.2	72	N/C	91	1.6
1	4.8	20	4.8	39	1.8	16	1.7	35	N/C	54	GND	73	N/C	92	3.2
2	2.0	21	N/C	40	N/C	17	1.9	36	N/C	55	GND	74	N/C	93	3.2
3	2.0	22	1.5	IC3501		18	1.8	37	N/C	56	N/C	75	N/C	94	3.2
4	1.8	23	1.5	PIN	VOLT	19	1.9	38	N/C	57	5.0	76	4.1	95	2.0
5	1.9	24	1.5	1	GND	20	1.8	39	N/C	58	GND	77	GND	96	2.6
6	4.8	25	1.5	2	1.5	21	0.9	40	GND	59	4.5	78	GND	97	GND
7	1.6	26	1.5	3	1.5	22	1.3	41	0.0	60	4.5	79	0.0	98	0.5
8	1.4	27	2.4	4	1.5	23	1.4	42	0.0	61	N/C	80	GND	99	1.5
9	1.1	28	1.0	5	1.5	24	1.6	43	0.0	62	N/C	81	3.2	100	3.2
10	0.8	29	1.0	6	1.5	25	1.8	44	0.0	63	N/C	82	1.0	IC3502	
11	N/C	30	N/C	7	1.5	26	1.8	45	3.2	64	3.2	83	1.6	PIN	VOLT
12	N/C	31	1.9	8	1.5	27	2.0	46	3.2	65	0.0	84	1.7	I	4.8
13	2.9	32	2.5	9	1.5	28	2.0	47	1.7	66	0.0	85	1.0	G	GND
14	0.5	33	1.3	10	1.0	29	GND	48	GND	67	N/C	86	GND	O	3.3
15	N/C	34	1.7	11	2.8	30	1.4	49	GND	68	N/C	87	GND	All voltages are in V.	
16	1.5	35	N/C	12	2.4	31	1.5	50	1.4	69	N/C	88	1.3		
17	1.5	36	1.9	13	1.9	32	3.2	51	0.0	70	N/C	89	0.5		

BC BOARD WAVEFORMS



C BOARD SCHEMATIC DIAGRAM



C BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9001	7.5	0.0	3.6
Q9002	0.2	11.1	GND
Q9003	2.1	12.0	3.2
Q9004	2.1	12.0	3.2
Q9005	3.2	12.0	2.1
Q9008	5.4	12.0	4.8
Q9009	3.2	GND	3.9
Q9010	3.2	GND	4.0
Q9011	3.2	GND	3.9
Q9012	5.4	10.5	4.8
Q9014	11.7	450.0	11.1

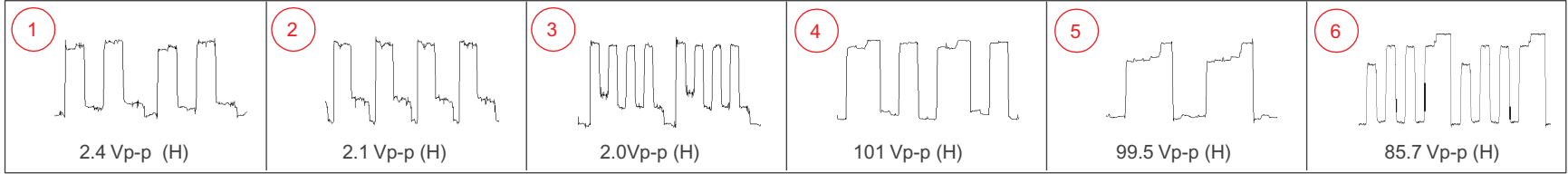
All voltages are in V.

C BOARD IC VOLTAGE LIST

IC9001		IC9002		IC9003	
PIN	VOLT	PIN	VOLT	PIN	VOLT
1	3.5	1	3.5	1	3.5
2	12.0	2	12.0	2	12.0
3	3.5	3	3.5	3	3.5
4	GND	4	GND	4	GND
5	8.0	5	7.8	5	7.8
6	203.0	6	203.0	6	203.0
7	145.0	7	142.6	7	147.0
8	158.0	8	164.0	8	163.0
9	144.0	9	142.0	9	146.0

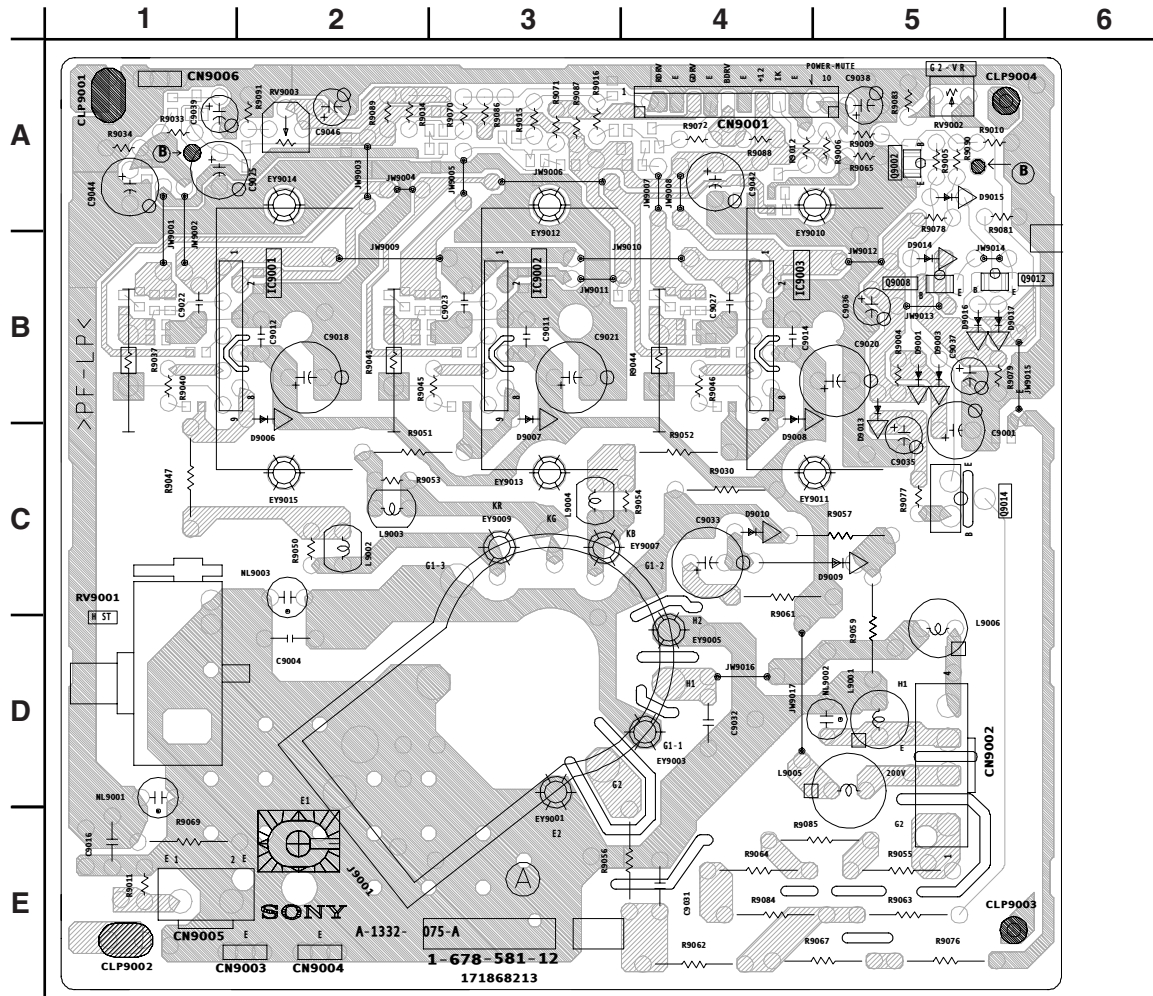
All voltages are in V.

C BOARD WAVEFORMS



C

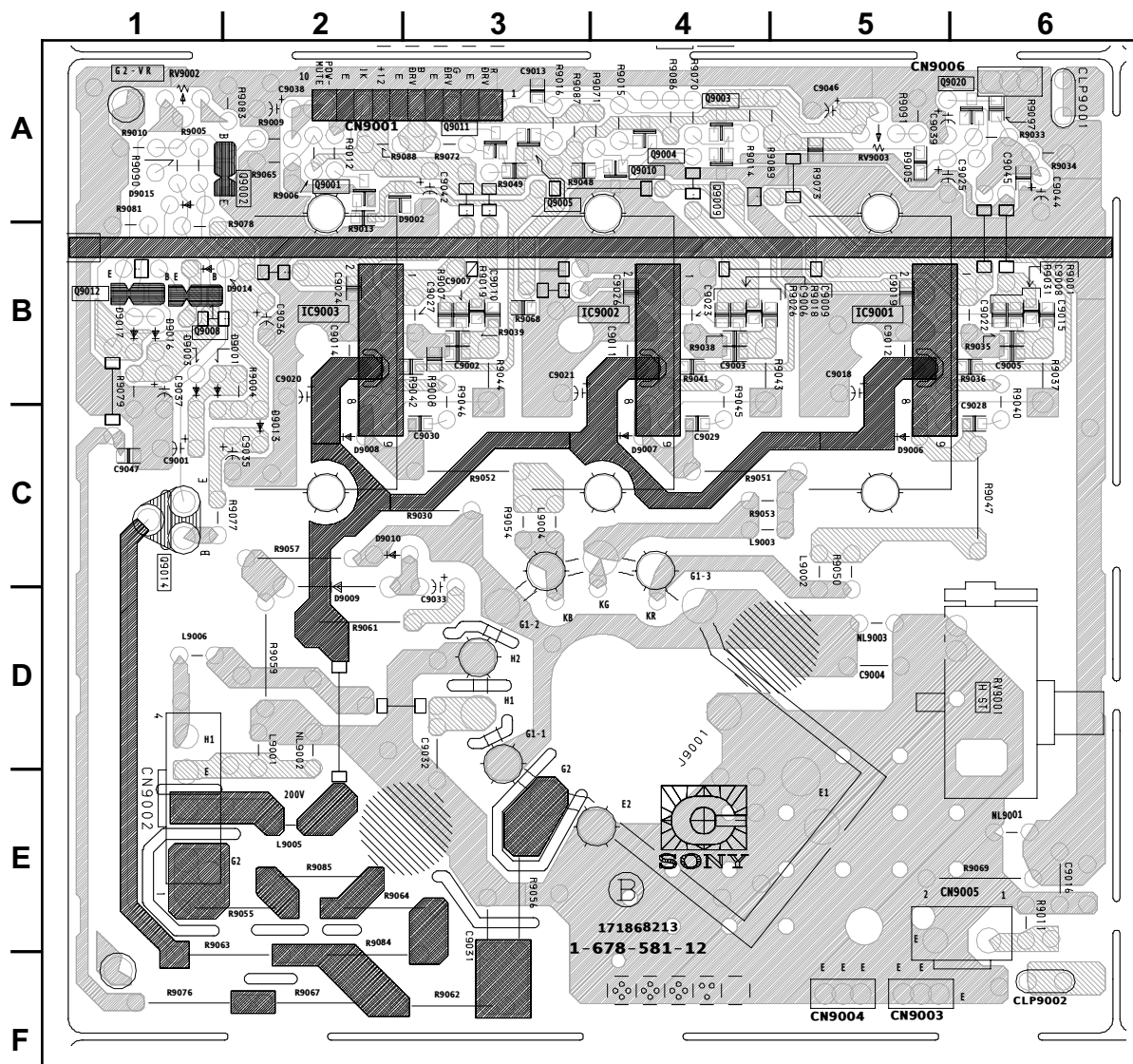
[CRT DRIVE, RGB DRIVE]

COMPONENT SIDE**C BOARD LOCATOR LIST (COMPONENT SIDE)**

DIODE		D9016	B-6
D9001	B-6	D9017	B-6
D9003	B-6	IC	
D9007	C-3	IC9001	B-2
D9008	C-5	IC9002	B-3
D9009	D-5	IC9003	B-5
D9010	C-5	TRANSISTOR	
D9013	C-5	Q9002	A-5
D9014	B-6	Q9014	C-6
D9015	A-6		



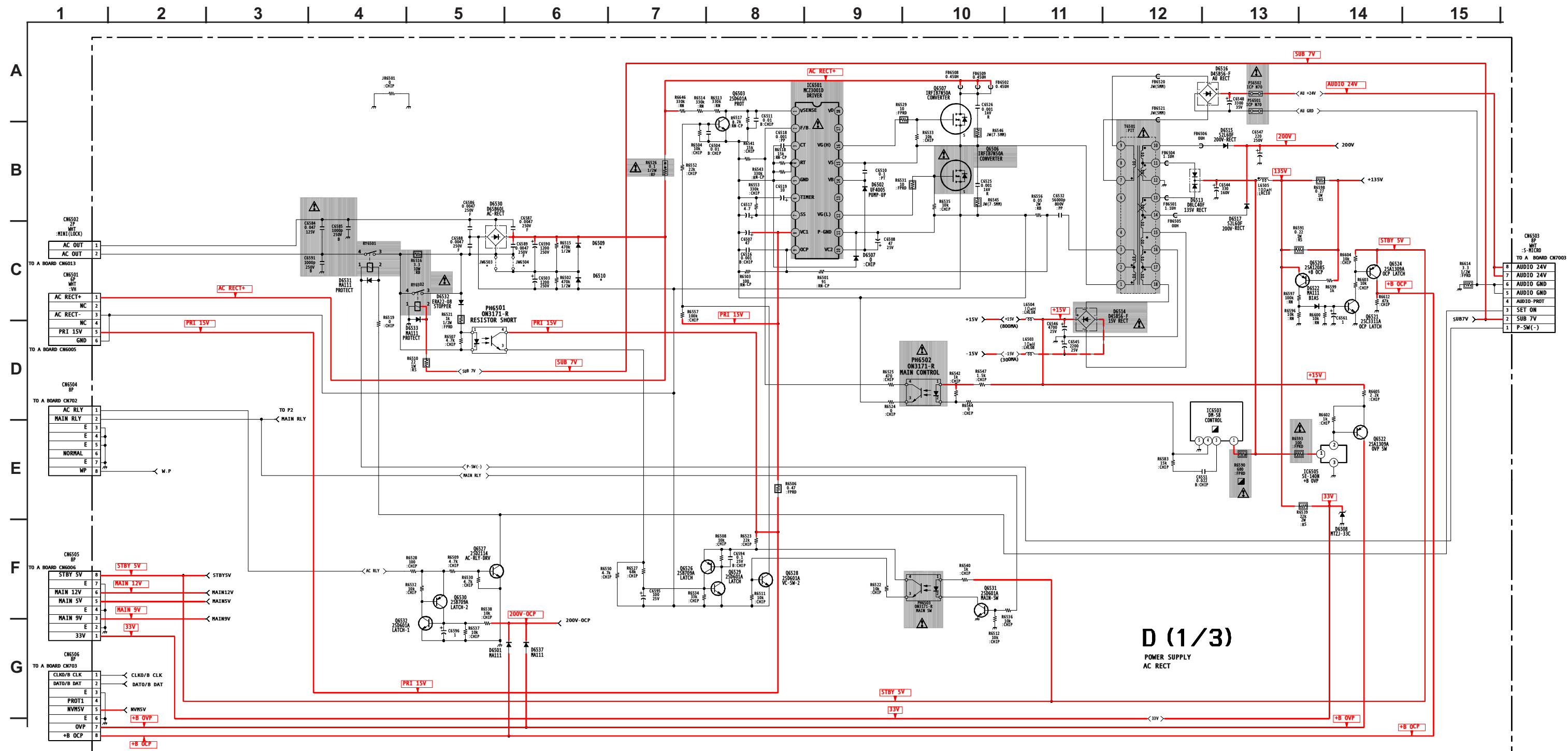
CONDUCTOR SIDE



C BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIODE		Q9004	A-4
D9002	A-2	Q9005	A-3
D9005	A-5	Q9008	B-1
D9006	C-5	Q9009	A-4
TRANSISTOR		Q9010	A-4
Q9001	A-2	Q9011	A-3
Q9003	A-4	Q9012	B-1

D BOARD SCHEMATIC DIAGRAM (1 OF 3)

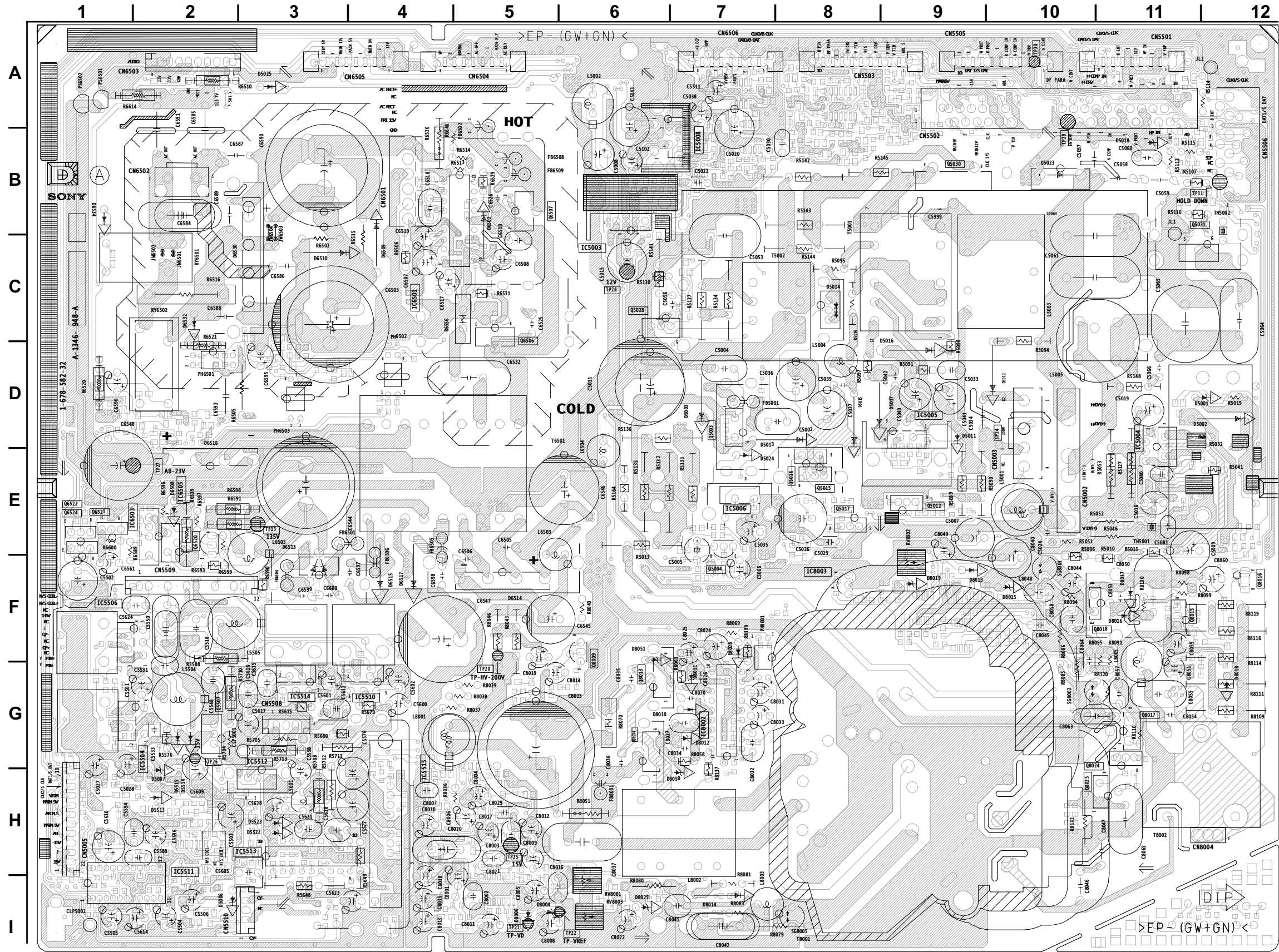


DX1A-912-D



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

COMPONENT SIDE

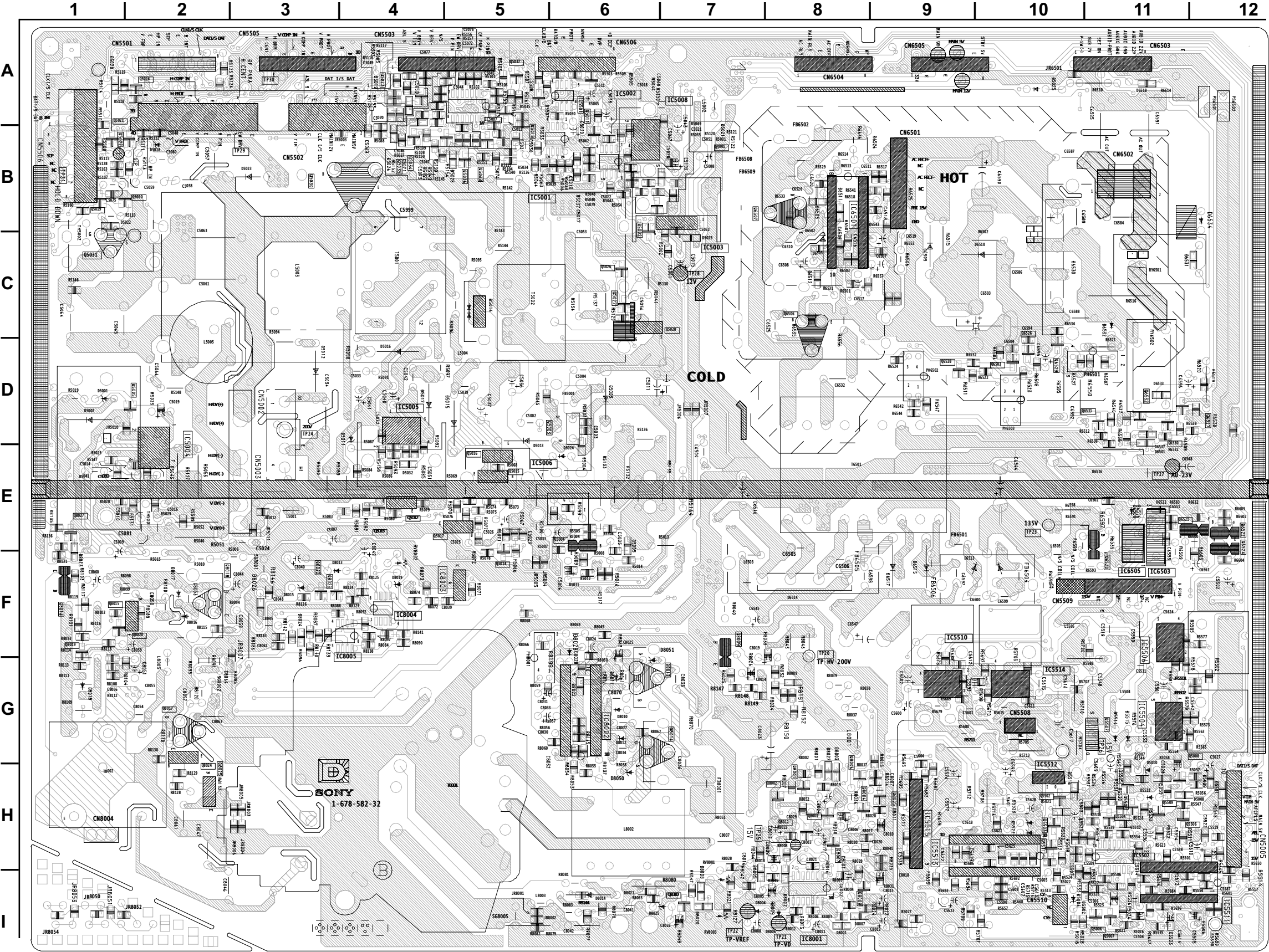


**D BOARD LOCATOR
LIST (COMPONENT SIDE)**

DIODE		D8028	F-7
D5001	D-12	D8050	H-6
D5002	D-12	D8051	F-6
D5003	D-7	IC	
D5006	I-2	IC5004	D-11
D5007	H-2	IC5005	D-9
D5011	D-9	IC5006	E-7
D5012	D-10	IC5504	H-2
D5013	D-7	IC5506	F-1
D5014	C-8	IC5510	G-4
D5015	D-8	IC5511	I-2
D5016	C-9	IC5512	H-3
D5017	D-9	IC5513	H-3
D5018	B-11	IC5514	G-3
D5023	B-10	IC5515	H-4
D5024	E-7	IC6501	C-4
D5025	A-3	IC6503	E-2
D5513	H-2	IC6505	E-2
D5514	H-2	IC8002	G-7
D5515	H-2	IC8003	F-8
D5522	H-3	TRANSISTOR	
D5523	H-3	Q5003	D-7
D6502	C-5	Q5004	F-7
D6508	E-2	Q5030	B-9
D6509	C-4	Q5031	B-11
D6510	C-3	Q5507	G-2
D6513	F-3	Q6507	B-5
D6514	G-6	Q6521	E-1
D6515	F-4	Q6522	E-1
D6516	D-2	Q6524	E-1
D6517	F-4	Q8009	G-6
D6532	C-2	Q8013	G-6
D8004	I-5	Q8014	G-6
D8006	I-5	Q8015	F-11
D8017	F-11	Q8018	F-11
D8018	G-12		
D8019	F-9		
D8025	I-6		

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

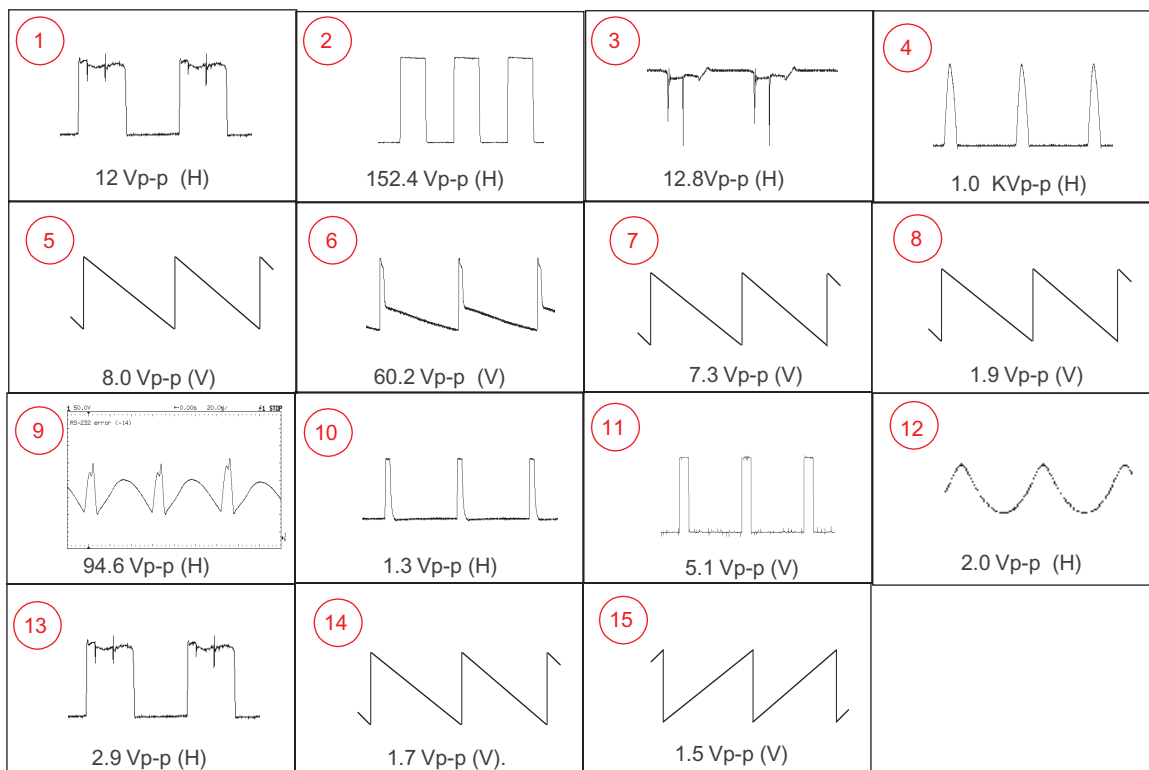
CONDUCTOR SIDE



D BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIODE		D8021	I-6	Q5033	B-4
D5004	E-6	D8022	G-6	Q5034	B-4
D5005	F-6	D8026	G-5	Q5035	B-4
D5008	H-12	D8027	G-8	Q5036	B-5
D5009	H-12	IC		Q5037	A-5
D5010	H-11	IC5001	B-5	Q5501	H-10
D5019	B-3	IC5002	A-6	Q5502	H-10
D5021	B-6	IC5003	C-7	Q5503	H-10
D5026	B-4	IC5007	A-5	Q5504	H-11
D5027	B-4	IC5008	A-7	Q5505	H-11
D5028	B-4	IC5501	A-6	Q5506	H-12
D5029	C-7	IC5502	H-11	Q5508	H-11
D5031	H-10	IC8001	I-8	Q5509	H-11
D5032	E-4	IC8004	F-4	Q6503	D-10
D5501	I-12	TRANSISTOR		Q6506	D-7
D5502	I-11	Q5001	B-7	Q6520	F-11
D5503	I-12	Q5002	B-7	Q6526	C-10
D5505	A-6	Q5005	D-2	Q6527	D-11
D5506	H-11	Q5006	I-11	Q6528	D-9
D5507	B-5	Q5007	I-11	Q6529	D-11
D6501	D-11	Q5008	G-12	Q6530	D-11
D6507	B-8	Q5011	A-6	Q6531	D-10
D6522	E-11	Q5012	E-4	Q6532	D-11
D6530	C-10	Q5013	E-4	Q8001	H-8
D6531	C-11	Q5014	E-4	Q8002	H-8
D6533	D-11	Q5015	E-5	Q8003	H-8
D6537	E-11	Q5016	E-5	Q8004	H-8
D8002	I-8	Q5017	E-4	Q8007	H-8
D8003	I-8	Q5018	B-5	Q8008	I-8
D8005	I-8	Q5019	B-1	Q8010	I-7
D8007	I-8	Q5020	B-2	Q8016	F-1
D8009	G-7	Q5021	B-2	Q8019	F-1
D8010	G-6	Q5022	B-2	Q8020	F-2
D8013	F-4	Q5023	A-4	Q8022	F-4
D8014	I-6	Q5026	C-6	Q8023	F-4
D8016	F-2	Q5027	C-6		
D8020	I-7	Q5028	C-7		

D BOARD WAVEFORMS



D BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E		B	C	E
Q5001	2.9	12.0	3.3	Q5027	5.2	0.0	5.2	Q6528	0.6	0.0	0.0
Q5002	2.9	GND	3.3	Q5030	132.0	0.0	GND	Q6529	0.0	5.9	0.0
Q5003	127.4	134.1	23.3	Q5033	10.0	1.4	10.5	Q6530	4.7	0.0	4.7
Q5004	132.0	0.0	133.0	Q5034	0.0	1.4	GND	Q6531	0.6	0.0	GND
Q5005	-0.5	15.6	0.1	Q5035	0.0	2.5	GND	Q6532	0.0	4.7	GND
Q5006	-12.0	1.0	-12.6	Q5036	0.1	5.2	GND	Q8001	0.1	0.0	GND
Q5007	4.4	-12.6	4.8	Q5037	3.1	12.1	3.7	Q8002	0.0	1.6	GND
Q5008	11.9	0.0	10.7	Q5501	2.4	12.1	GND	Q8003	0.2	1.6	GND
Q5011	0.1	3.9	GND	Q5502	0.5	5.4	GND	Q8004	0.0	1.6	GND
Q5012	3.7	97.7	3.2	Q5503	0.5	2.4	GND	Q8007	0.6	0.0	GND
Q5013	3.1	GND	3.7	Q5504	0.0	4.0	GND	Q8008	0.6	0.0	GND
Q5014	6.6	12.1	6.1	Q5505	0.0	4.2	GND	Q8009	196.0	0.0	196.0
Q5015	202.8	212.4	203.2	Q5506	0.3	3.6	GND	Q8010	2.1	0.0	GND
Q5016	203.2	212.4	202.6	Q5508	4.0	12.1	4.6	Q8015	0.5	0.0	GND
Q5017	6.5	164.8	6.1	Q5509	4.0	GND	4.6	Q8016	134.5	134.7	135.1
Q5018	0.6	1.9	GND	Q6503	0.0	2.5	0.0	Q8018	-5.5	94.4	GND
Q5019	3.7	12.1	2.9	Q6520	131.0	0.0	132.0	Q8019	3.5	0.0	GND
Q5020	3.7	GND	2.9	Q6521	0.0	2.1	GND	Q8020	0.0	0.5	GND
Q5021	0.4	9.0	0.5	Q6522	15.7	0.0	15.7	Q8022	4.6	GND	4.9
Q5022	0.4	GND	1.1	Q6524	2.1	0.4	4.9	Q8023	4.6	15.5	4.9
Q5023	0.4	3.9	GND	Q6526	5.9	0.0	5.9	All voltages are in V.			
Q5026	5.2	12.1	5.2	Q6527	0.6	0.0	0.0				

	D	G	S		D	G	S
Q5028	5.2	33.5	GND	Q6507	154.4	303.3	150.0
Q5031	2.9	12.6	GND	Q8013	4.6	94.8	0.0
Q5507	5.4	6.9	GND	Q8014	99.0	198.0	93.2
Q6506	4.7	149.2	0.0	All voltages are in V.			

(*) D BOARD VARIANT MODEL LIST

REF. NO.	LOCATION	KV-38DRC2	KV-38DRC2C
D6509	C-6	ERC04-06SE	#
D6510	C-6	ERC04-06SE	#
JW6503	C-5	7.5MM	#
JW6504	C-6	7.5MM	#

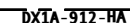
NOTE: # = Not Mounted

D BOARD IC VOLTAGE LIST

IC5001		IC5006		IC5502		IC5511		7	N/C	6	0.0	11	0.1		
PIN	VOLT	PIN	VOLT	PIN	VOLT	PIN	VOLT	8	5.0	7	4.0	12	GND		
1	11.0	I	7.8	1	5.4	1	4.6	9	5.0	8	17.2	13	0.1		
2	11.0	G	GND	2	2.4	2	4.6	10	12.1	9	GND	14	0.1		
3	N/C	O	6.3	3	12.1	3	N/C	11	4.0	10	10.4	IC8002			
4	GND	VC	N/C	4	3.6	4	4.2	12	5.0	11	0.0	PIN	VOLT		
5	4.0	IC5007		5	3.4	5	9.0	13	5.0	12	4.6	1	1.6		
6	4.0	PIN	VOLT	6	3.4	6	4.2	14	0.5	13	N/C	2	1.8		
7	5.9	1	3.1	7	3.9	7	GND	15	1.1	14	163.6	3	2.2		
8	12.1	2	0.6	8	N/C	8	4.2	16	4.6	15	153.5	4	2.5		
IC5002		3	12.1	9	N/C	9	1.9	17	4.6	16	157.6	5	GND		
PIN	VOLT	4	1.5	10	0.0	10	4.4	18	GND	17	N/C	6	0.0		
1	0.1	5	2.3	11	0.0	11	4.4	IC5514		18	N/C	7	4.7		
2	6.0	6	3.9	12	GND	12	6.4	PIN	VOLT	IC6503		8	15.6		
3	3.8	7	2.8	13	3.7	13	N/C	1	0.3	PIN	VOLT	9	0.0		
4	GND	8	0.0	14	N/C	14	8.2	2	0.3	1	134.0	10	10.4		
5	2.3	9	3.0	IC5504		15	1.9	3	-12.0	2	N/C	11	GND		
6	3.7	10	1.4	PIN	VOLT	16	4.0	4	0.7	3	2.5	12	4.5		
7	2.9	11	6.1	1	4.2	17	4.9	5	9.0	4	11.8	13	N/C		
8	12.1	12	GND	2	4.2	18	N/C	IC5515		5	GND	14	104.8		
IC5003		13	2.5	3	GND	19	3.6	PIN	VOLT	IC6505		15	94.8		
PIN	VOLT	14	0.6	4	5.5	20	9.0	1	3.4	PIN	VOLT	16	99.0		
I	15.6	IC5008		5	9.0	21	0.9	2	3.4	1	134.9	17	N/C		
G	GND	PIN	VOLT	IC5506		22	N/C	3	-9.6	2	15.7	18	198.0		
O	12.1	1	9.1	PIN	VOLT	IC5512		4	-15.3	3	GND	IC8003			
IC5004		2	12.0	1	4.3	PIN	VOLT	5	GND	IC8001		PIN	VOLT		
PIN	VOLT	3	GND	2	4.3	I	-15.8	6	12.0	PIN	VOLT	1	2.4		
1	1.2	4	5.0	3	-15.5	G	GND	7	-14.0	1	0.1	2	GND		
2	15.6	5	5.2	4	4.4	O	-12.0	8	2.7	2	0.0	3	11.0		
3	-12.6	IC5501		5	9.0	IC5513		9	GND	3	15.6	IC8004			
4	-14.5	PIN	VOLT	IC5510		PIN	VOLT	IC6501		4	5.0	PIN	VOLT		
5	0.2	1	GND	PIN	VOLT	1	4.5	PIN	VOLT	5	0.0	1	N/C		
6	16.2	2	5.0	1	0.6	2	4.9	1	2.5	6	5.0	2	N/C		
7	1.2	3	5.0	2	0.6	3	4.9	2	1.8	7	0.0	3	N/C		
IC5005		4	GND	3	-11.9	4	4.6	3	2.2	8	5.0	4	GND		
PIN	VOLT	5	4.6	4	2.4	5	5.0	4	2.5	9	4.2	5	7.1		
1	100.0	6	4.6	5	12.1	6	5.0	5	GND	10	5.0	6	7.1		
2	99.7	7	5.0									7	7.1		
3	-95.3	8	5.0											8	15.2
4	100.0														
5	104.6														

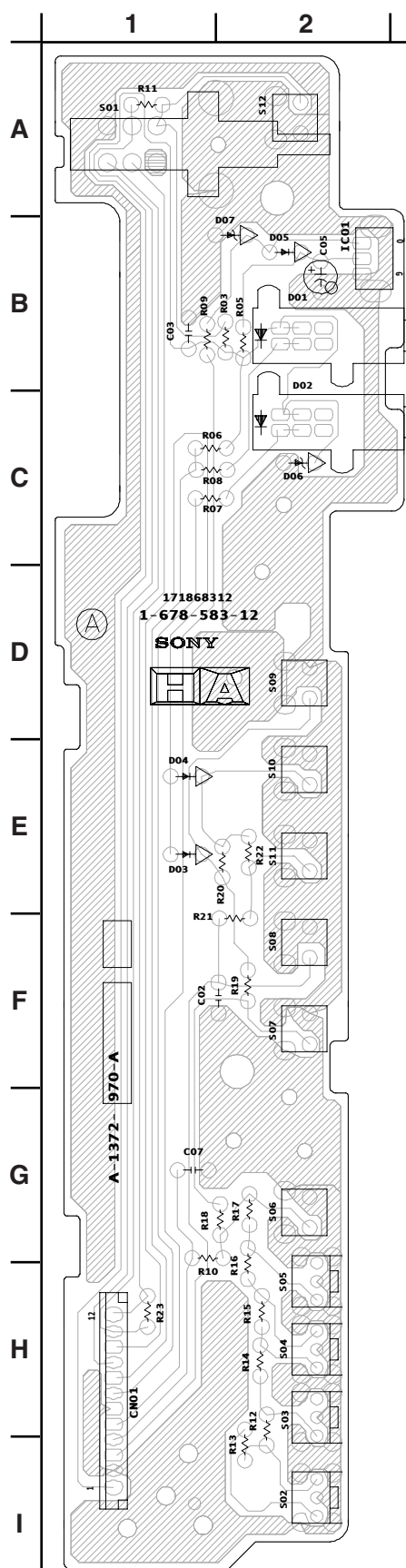
All voltages are in V.

All voltages are in V.





[KEY INPUT, LED, RMC]



HA BOARD IC VOLTAGE LIST

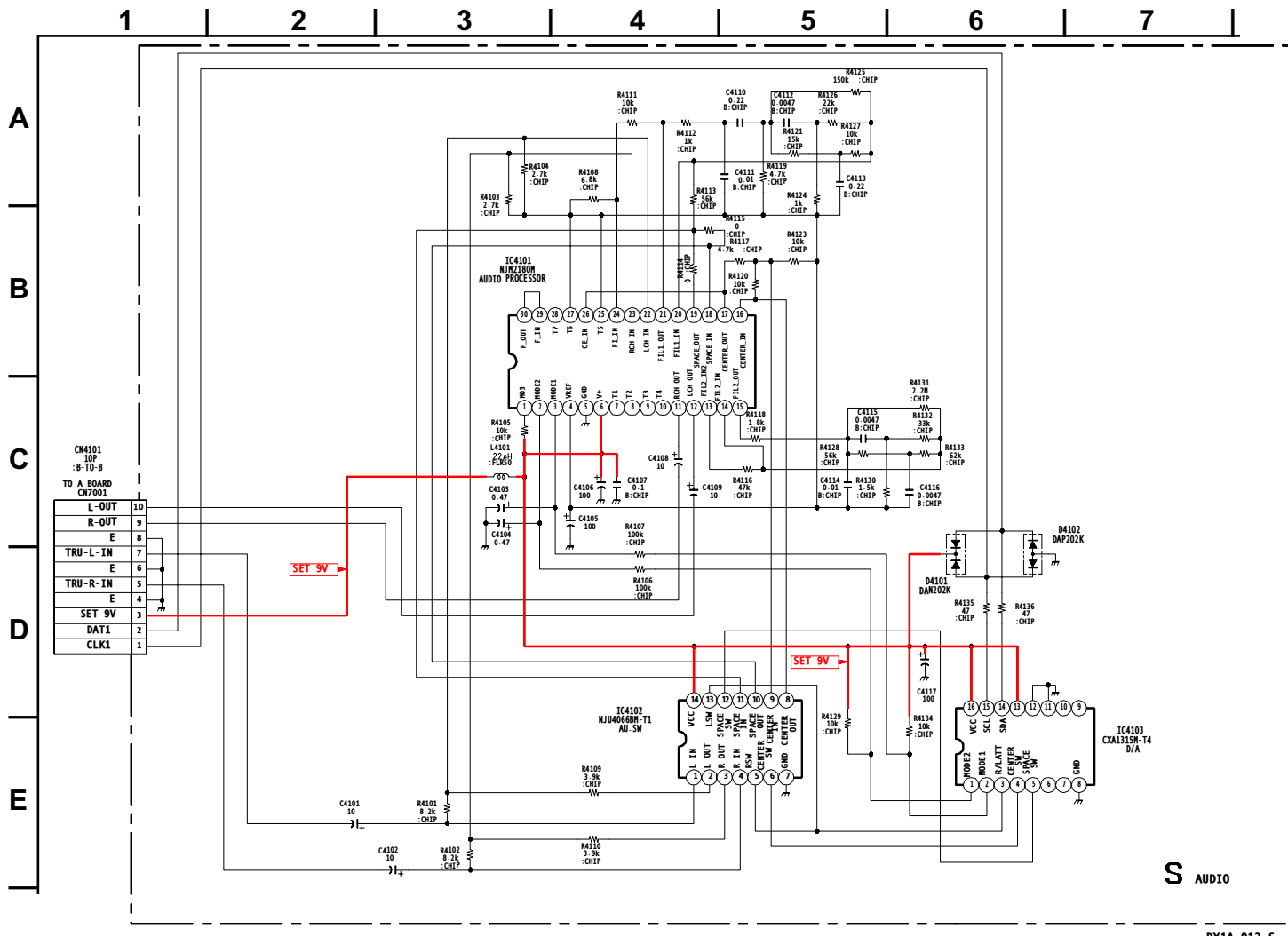
IC01	
PIN	VOLT
1	4.9
2	0.0
3	4.3

All voltages are in V.

HA BOARD LOCATOR LIST

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

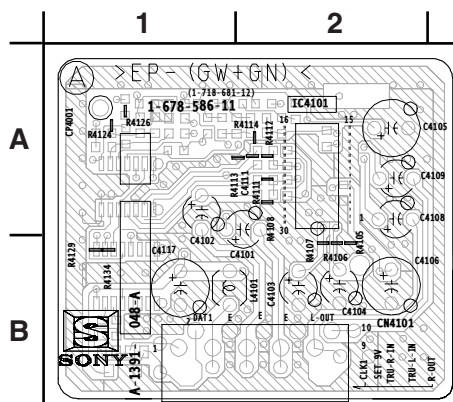
S BOARD SCHEMATIC DIAGRAM



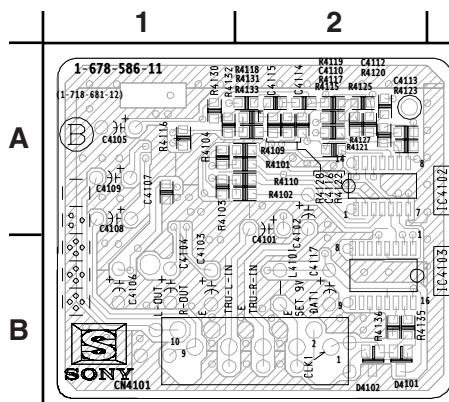
DX1A-912-5



COMPONENT SIDE



CONDUCTOR SIDE

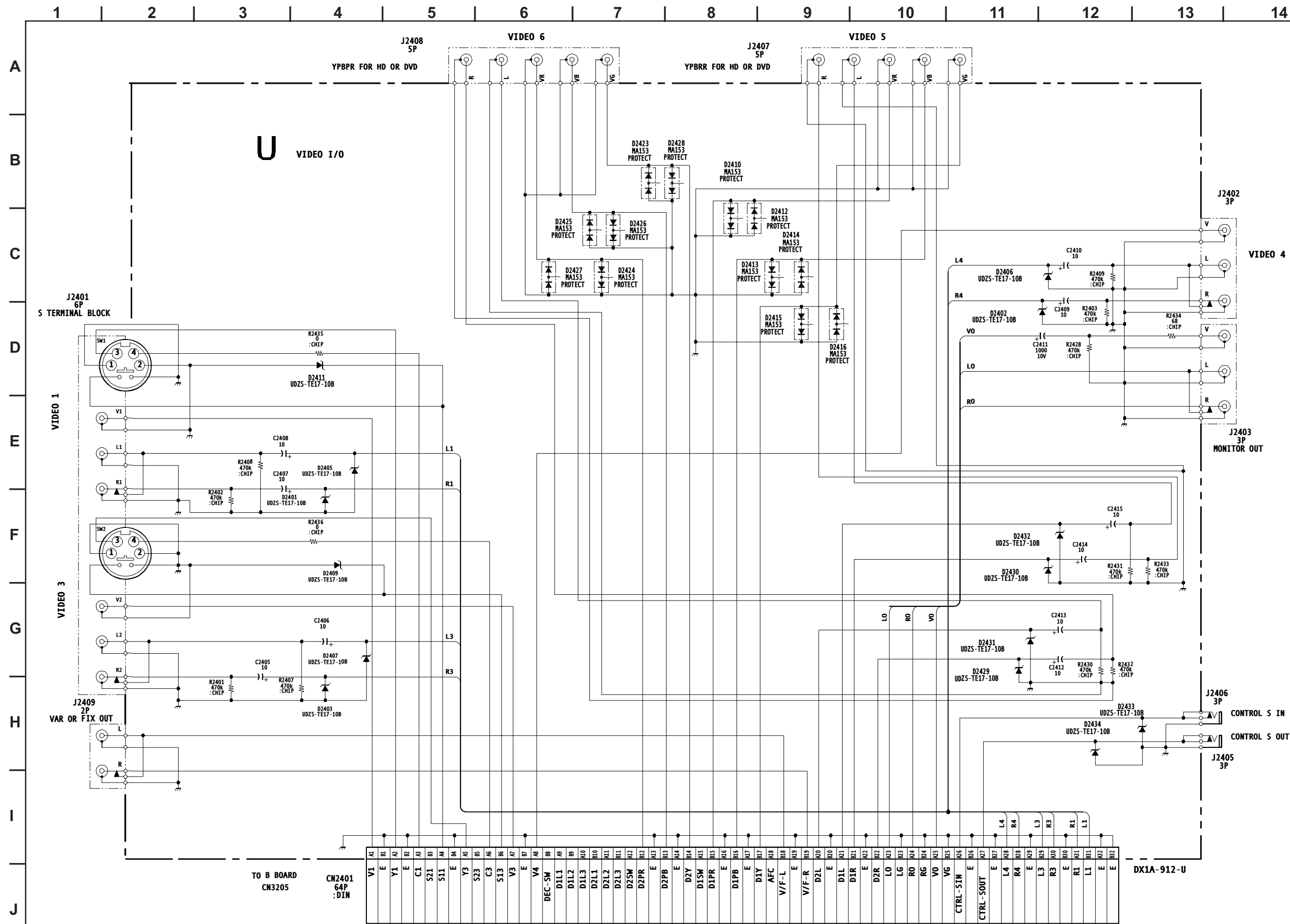


S BOARD IC VOLTAGE LIST

IC4101		22	4.5	13	8.6
PIN	VOLT	23	4.5	14	9.0
1	8.4	24	4.5	IC4103	
2	0.1	25	4.5	PIN	VOLT
3	0.1	26	4.5	1	0.1
4	4.5	27	4.5	2	0.1
5	GND	28	N/C	3	8.6
6	9.0	29	4.5	4	0.3
7	N/C	30	4.5	5	0.3
8	N/C	IC4102		6	N/C
9	N/C	PIN	VOLT	7	N/C
10	N/C	1	4.5	8	GND
11	4.5	2	4.5	9	N/C
12	4.5	3	4.5	10	N/C
13	4.5	4	4.5	11	GND
14	4.5	5	8.6	12	GND
15	4.5	6	0.3	13	9.0
16	4.5	7	GND	14	4.5
17	4.5	8	4.5	15	4.5
18	4.5	9	4.5	16	9.0
19	4.5	10	4.5	All voltages are in V.	
20	4.5	11	4.5		
21	4.5	12	0.3		

U BOARD SCHEMATIC DIAGRAM

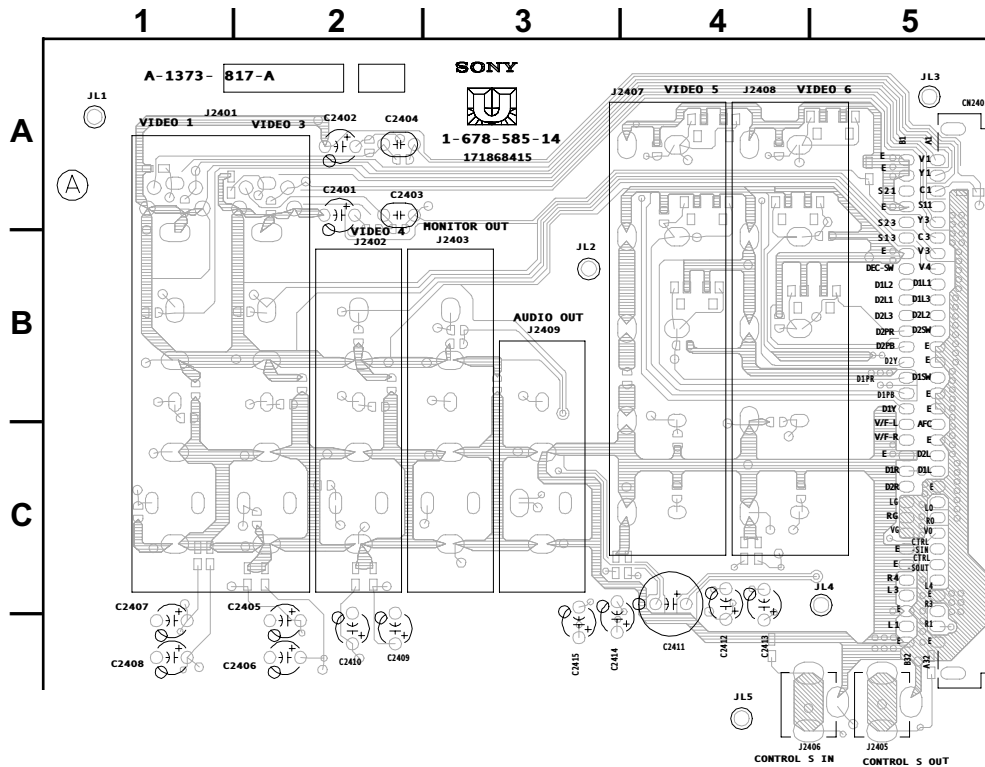
KV-38DRC2 / 38DRC2C





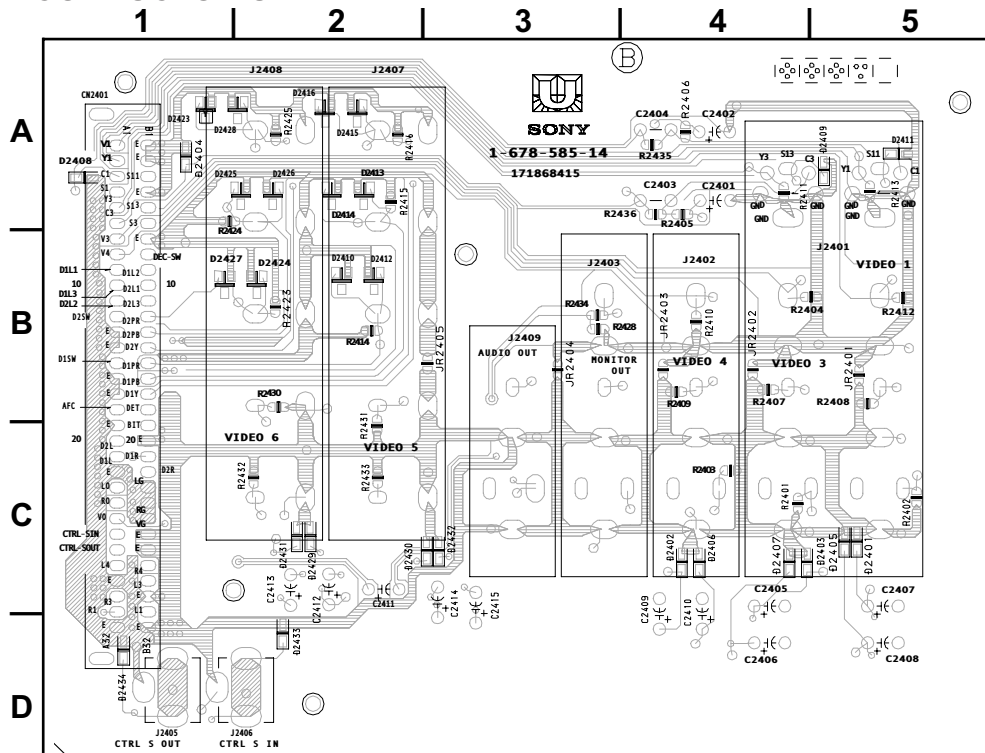
[VIDEO I/O]

COMPONENT SIDE

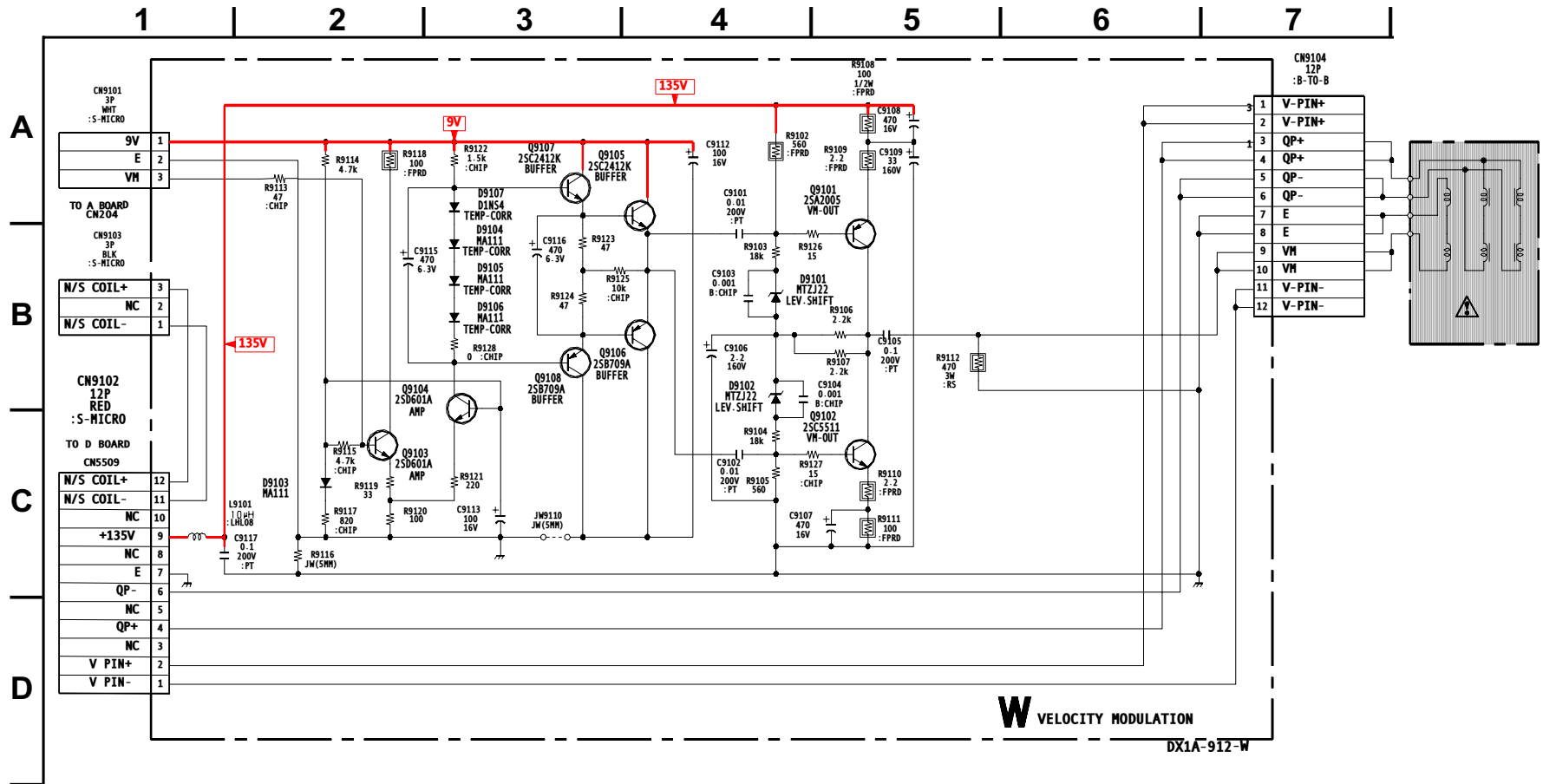
U BOARD
LOCATOR LIST

DIODE	
D2401	D-5
D2402	D-4
D2403	D-5
D2405	D-5
D2406	D-4
D2407	D-5
D2409	A-5
D2410	B-2
D2411	A-5
D2412	B-2
D2413	B-2
D2414	B-2
D2415	A-2
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-3
D2433	D-2
D2434	D-1

CONDUCTOR SIDE



W BOARD SCHEMATIC DIAGRAM



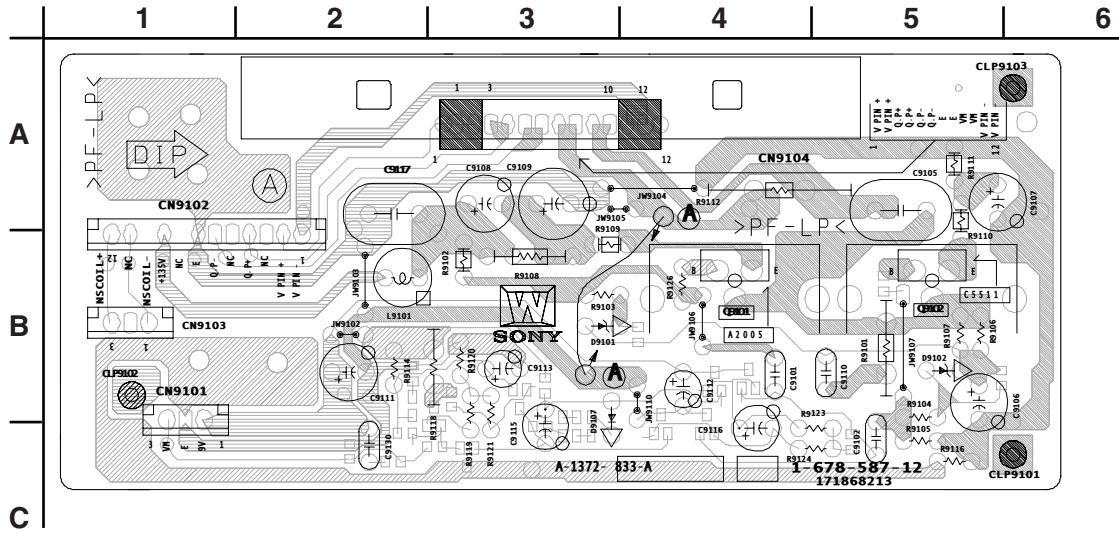
W BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q9101	133.8	67.5	134.3
Q9102	1.3	67.5	0.8
Q9103	2.9	0.0	9.0
Q9104	9.0	5.1	0.0
Q9105	5.1	9.0	4.7
Q9106	4.1	GND	4.7
Q9107	5.9	9.0	5.1
Q9108	3.5	GND	4.1

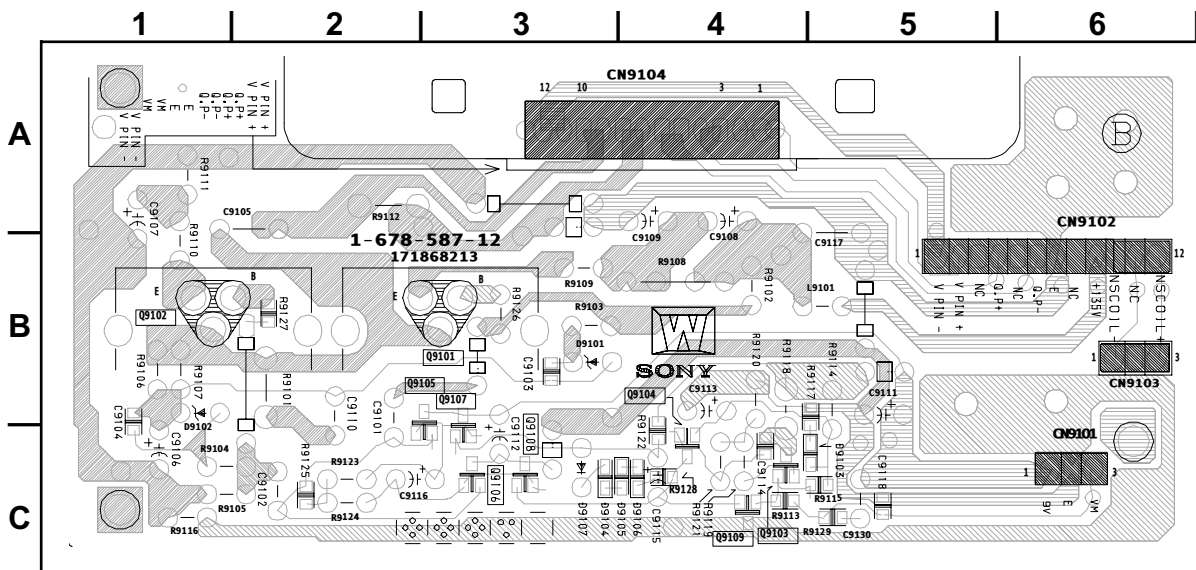
All voltages are in V.



[VELOCITY MODULATION]

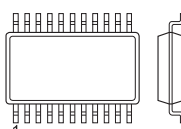
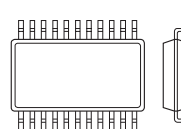
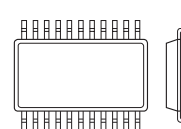
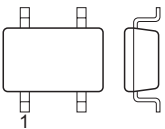
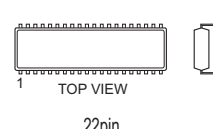
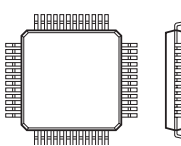
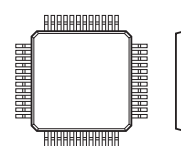
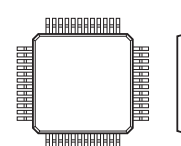
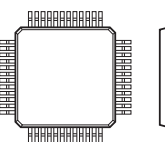
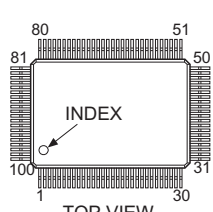
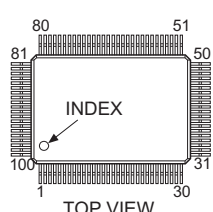
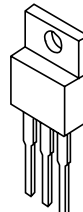
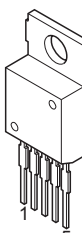
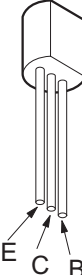

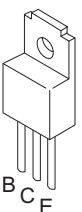
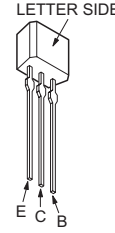
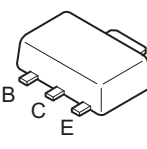
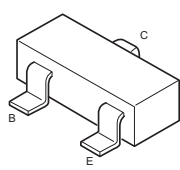
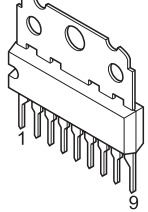
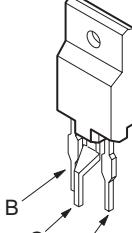
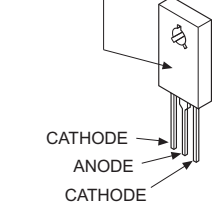
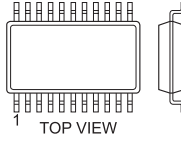
COMPONENT SIDE**W BOARD LOCATOR LIST (COMPONENT SIDE)**

DIODE		TRANSISTOR	
D9101	B-4	Q9101	B-4
D9102	B-6	Q9102	B-6
D9107	C-4		

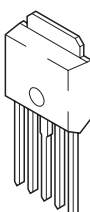
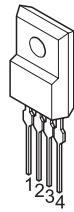
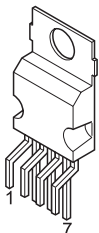
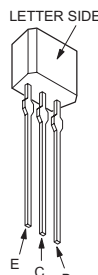
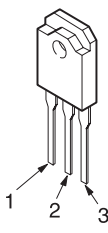
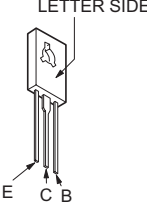
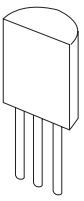
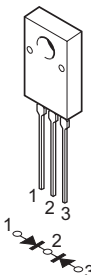
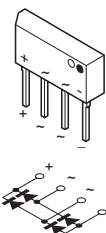
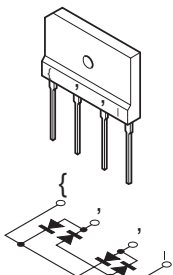
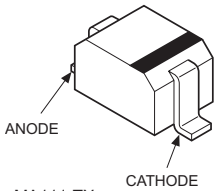
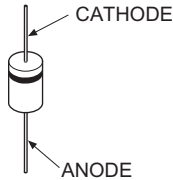
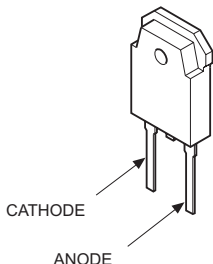
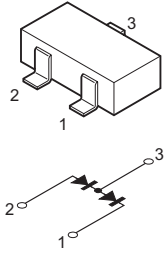
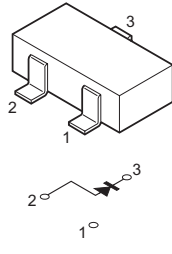
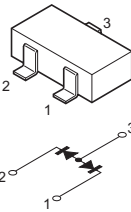
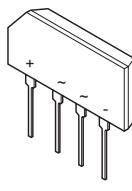
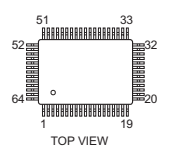
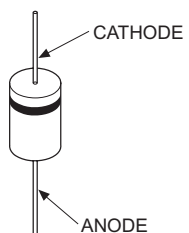
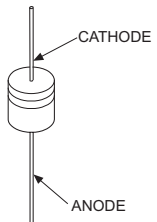
CONDUCTOR SIDE**W BOARD LOCATOR LIST (CONDUCTOR SIDE)**

DIODE		TRANSISTOR	
D9106	C-3	Q9105	B-2
D9103	B-4	Q9106	C-3
D9104	C-3	Q9103	C-4
D9105	C-3	Q9104	B-4
		Q9107	B-3
		Q9108	B-3

5-4. SEMICONDUCTORS (1 OF 2)

 <p>14pin TOP VIEW</p> <p>M52055FP TLC2932IPW TLC2933IPWR-12</p>	 <p>16pin TOP VIEW</p> <p>CXD2085M-T4 SN74LV4053ANSR</p>	 <p>32pin TOP VIEW</p> <p>BH3868AFS-E2</p>	 <p>5pin</p> <p>PST9120NL PST9145NL TC7SET08FU(TE85L)</p>	 <p>22pin TOP VIEW</p> <p>CXA2026AS</p>
 <p>32pin TOP VIEW</p> <p>CXD2073Q-T4</p>	 <p>48pin TOP VIEW</p> <p>CXA2103Q CXA2150Q</p>	 <p>64pin TOP VIEW</p> <p>TLC5733AIPM</p>	 <p>240pin</p> <p>CXD9509AQ</p>	 <p>TOP VIEW</p> <p>CXA2151Q</p>
 <p>TOP VIEW</p> <p>M306V2ME-153FP</p>	 <p>NJM79M12FA</p>	 <p>LA6500-FA</p>	 <p>2SA1208S-TP 2SA10910-TPE</p>	 <p>IRF614 IRF1644-G-LF36 IRF19630GS</p>
 <p>2SA2005 2SC5511</p>	 <p>LETTER SIDE</p> <p>2SC3311A-QRSTA</p>	 <p>2SK2036(TE85L)</p>	 <p>DTA114EKA-T146 DTC114TKA-T146 DTC144EKA-T146 2SA1226 2SD601A-QRS-TX 2SB709A-QRS-TX 2SC2412K-T-146-QR 2SD2114KT146</p>	
 <p>TDA6111Q/N4</p>	 <p>2SC4632LS-CB7</p>	 <p>MARKING SIDE VIEW</p> <p>CATHODE ANODE CATHODE</p> <p>D5LC20U</p>	 <p>8pin TOP VIEW</p> <p>NJM2901M-TE2 NJM2903M-TE2 NJM2904M-TE2 NJM4558E(TE2) TC7WU04FU(TE12R)</p>	

SEMICONDUCTORS (2 OF 2)

 <p>PQ07VZ012P</p>	 <p>PQ09RD21 PQ05RF21 PQ12RF21 PQ30RV21</p>	 <p>STV9379</p>	 <p>LETTER SIDE</p> <p>E C B</p> <p>2SA1776TV2Q 2SA1309A-QRSTA</p>	 <p>1 2 3</p> <p>2SC3997S-SONY</p>
 <p>LETTER SIDE</p> <p>E C B</p> <p>2SC2688-LK 2SC3840K</p>	 <p>UPC1093J</p>	 <p>1 2 3</p> <p>D5SC4M D8LC40F</p>	 <p>+</p> <p>-</p> <p>S1VB20</p>	 <p>D1NL40-TA2 D6SB60L</p>
 <p>ANODE</p> <p>CATHODE</p> <p>MA111-TX MA113-TX UDZSTE-1710B UDZSTE-176.8B UDZSTE-17-12</p>	 <p>CATHODE</p> <p>ANODE</p> <p>1SS133T-77 D1NL20U-TR ERC91-02E</p>	 <p>CATHODE</p> <p>ANODE</p> <p>PG124S15</p>	 <p>3</p> <p>2</p> <p>1</p> <p>2</p> <p>1</p> <p>3</p> <p>MA153-TX</p>	 <p>3</p> <p>2</p> <p>1</p> <p>2</p> <p>1</p> <p>3</p> <p>MA3091-TX</p>
 <p>2</p> <p>1</p> <p>3</p> <p>2</p> <p>1</p> <p>3</p> <p>DAN202K-T-146</p>	 <p>+</p> <p>-</p> <p>-</p> <p>-</p> <p>D4SBS6-F</p>	 <p>51</p> <p>33</p> <p>52</p> <p>32</p> <p>64</p> <p>20</p> <p>1</p> <p>19</p> <p>TOP VIEW</p> <p>CXA2069Q CXP85840A-039Q</p>	 <p>CATHODE</p> <p>ANODE</p> <p>D1NL20U-TA2 ERA22-08TP3 ERC04-06SE GP08DPKG23 HSS83TD HZU11B1TRF RGP02-20EL-6394 MTZJ-77-22B</p>	
			 <p>CATHODE</p> <p>ANODE</p> <p>D1NS4-TA2 MTZJ-T-77-15 MTZJ-T-77-15B MTZJ-T-77-33B MTZJ-T-77-10 MTZJ-T-77-12 MTZJ-T-77-13C MTZJ-T-77-2.0A MTZJ-T-77-22 MTZJ-T-77-3.0B MTZJ-T-77-3.9B</p> <p>MTZJ-T-77-33C MTZJ-T-77-4.7B MTZJ-T-77-5.1B MTZJ-T-77-7.5B RD5.6ES-T1B2</p>	

SECTION 6: EXPLODED VIEWS

Components not identified by a part number or 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 far right column of the parts list and within the dotted lines of the diagram.

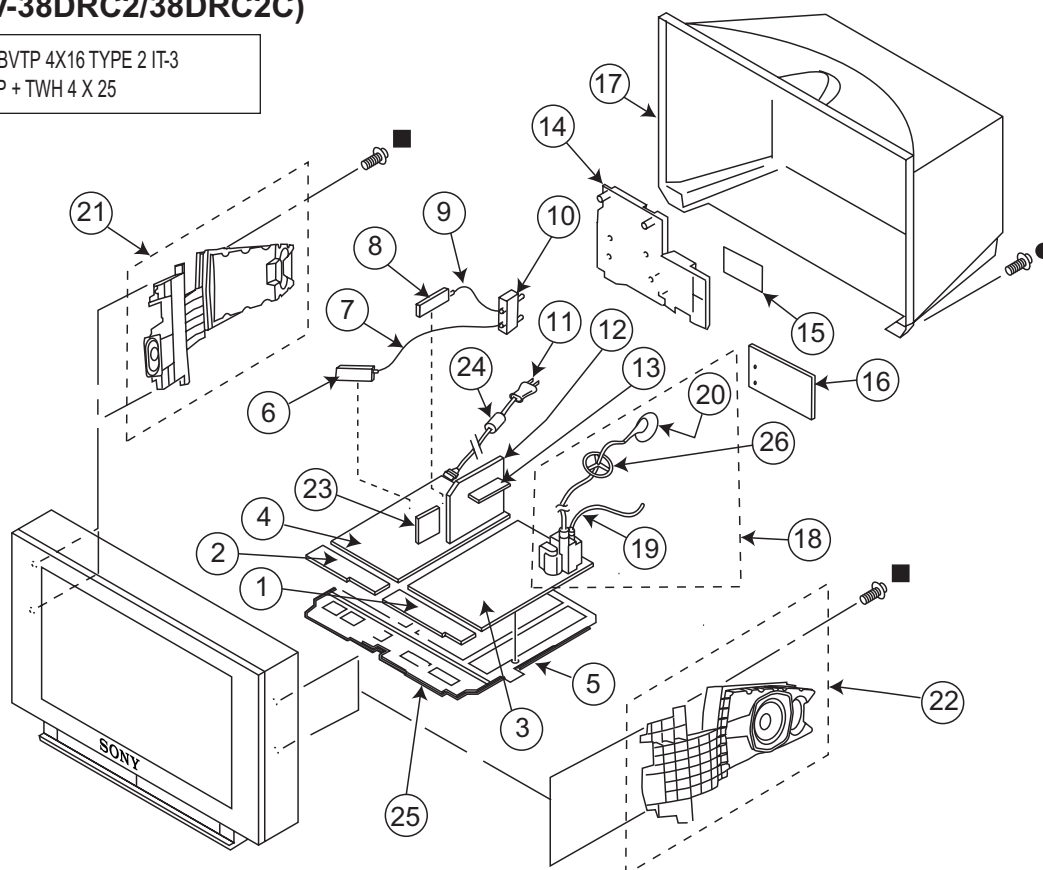
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

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.

6-1. CHASSIS (KV-38DRC2/38DRC2C)

- 7-685-663-79 SCREW + BVTP 4X16 TYPE 2 IT-3
- 4-064-929-02 SCREW, TP + TWH 4 X 25



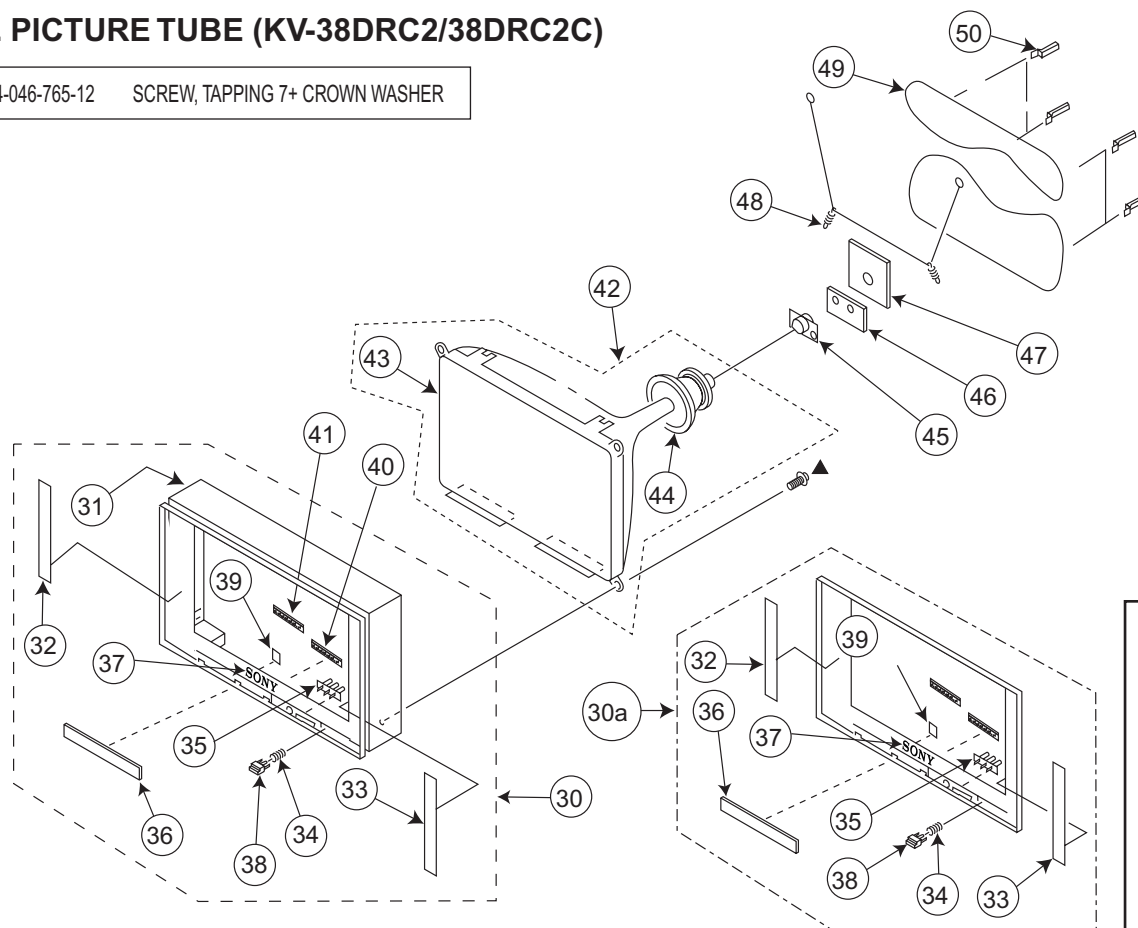
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]
* 1	A-1372-970-A	HA MOUNTED PC BOARD	* 12	A-1136-200-A	B COMPLETE PC BOARD	
* 2	A-1372-904-A	HB (COM) MOUNTED PC BOARD	* 13	A-1136-117-A	BC COMPLETE PC BOARD	
* 3	A-1346-948-A	D COMPLETE PC BOARD (KV-38DRC2 ONLY)	* 14	4-075-829-01	BRACKET, U	
* 3	A-1346-956-A	D COMPLETE PC BOARD (KV-38DRC2C ONLY)			The label associated with the U Bracket is not included and must be ordered separately (See 15).	
		The high-voltage leads associated with the FBT on this board are not included and must be ordered separately (See 19-20).	15	4-077-820-01	LABEL, TERMINAL	
* 4	A-1299-481-A	A COMPLETE PC BOARD (KV-38DRC2 ONLY)	* 16	A-1373-817-A	U (COM) MOUNTED PC BOARD	
* 4	A-1299-552-A	A COMPLETE PC BOARD (KV-38DRC2C ONLY)	17	4-075-833-01	COVER, REAR	
* 5	4-075-828-01	BRACKET, MAIN	⚠ 18	1-453-346-11	FBT ASSY NX-6000/J1J4	[19-20]
6	8-598-501-30	TUNER, FSS BTF-FA402	⚠ 19	1-900-805-19	FOCUS LEAD	
* 7	1-555-400-41	CABLE, PIN	⚠ 20	1-251-715-22	HV CAP ASSY	
8	8-598-542-20	TUNER, FSS BTF-WA412	21	1-529-812-31	SPEAKER BOX TYPE (5X9CM 12CM)	
* 9	1-557-009-21	CABLE, P-P	22	1-529-812-41	SPEAKER BOX TYPE (5X9CM 12CM)	
⚠ 10	1-771-787-11	SWITCH, RF ANTENNA	* 23	A-1391-048-A	S MOUNTED PC BOARD	
⚠ 11	1-769-796-61	CORD, POWER (WITH CONNECTOR)	24	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
		(KV-38DRC2C ONLY)			(KV-38DRC2 ONLY)	
⚠ 11	1-790-316-21	CORD, AC POWER (WITH CONNECTOR)	* 25	4-075-830-03	BRACKET, H	
		(KV-38DRC2C ONLY)	26	3-704-372-71	HOLDER, HV CABLE	

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.

6-2. PICTURE TUBE (KV-38DRC2/38DRC2C)

▲ 4-046-765-12 SCREW, TAPPING 7+ CROWN WASHER



NOTE:

- When replacing the CRT, please order Item (30) in order to replace the entire Bezelnet.
- When replacing only the Bezel, please order Item (30a) only.

REF. NO.	PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION
30	A-1017-301-A	BEZNET COMPLETE ASSY	[31-39]	⚠ 44	8-451-516-11	DY Y38RSC-X
30a	A-1501-902-A	BEZEL COMPLETE ASSY	[32-39]	⚠ 45	8-453-009-21	NA325-M2 (NECK ASSEMBLY)
31	4-075-832-01	CABINET		* 46	A-1372-833-A	W MOUNTED PC BOARD
32		GRILL, SPEAKER (L)		* 47	A-1332-075-A	C MOUNTED PC BOARD
33		GRILL, SPEAKER (R)		48	4-036-329-01	SPRING (B), TENSION
34	4-042-593-11	SPRING, COMPRESSION		⚠ 49	1-416-828-41	COIL, DEGAUSSING (KV-38DRC2 ONLY)
35	4-075-823-01	GUIDE, LED		⚠ 49	1-419-193-11	COIL, DEGAUSSING (KV-38DRC2C ONLY)
36	4-075-822-22	DOOR		50	4-065-895-04	HOLDER, DGC
37	3-704-179-81	EMBLEM (NO.9), SONY				
38	4-075-824-21	BUTTON, POWER				
39	4-076-673-03	DAMPER, DOOR				
40	4-075-825-01	BUTTON, MULTI				
41	4-075-826-01	BUTTON, MENU				
⚠ 42	8-735-080-63	ITC 38RSN-C1E (KV-38DRC2C ONLY)	[43-44]			
⚠ 42	8-735-081-62	ITC 38RSN-C1M (KV-38DRC2 ONLY)	[43-44]			
⚠ 43	8-735-080-05	CRT 38RSN (KV-38DRC2C ONLY)				
⚠ 43	8-735-081-05	CRT 38RSN (KV-38DRC2 ONLY)				

SECTION 7: ELECTRICAL PARTS LIST

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

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

The components in this manual identified by the following symbol: \boxtimes indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

RESISTORS

- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

BC

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

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
* <div>BC</div>	A-1136-117-A	BC COMPLETE PC BOARD				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	1-126-935-11	ELECT	470μF	20%	16V	
						C3548	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
						C3549	1-126-947-11	ELECT	47μF	20%	16V	
						C3550	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3551	1-126-947-11	ELECT	47μF	20%	16V	
						C3552	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3553	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3554	1-126-947-11	ELECT	47μF	20%	16V	
						C3555	1-126-935-11	ELECT	470μF	20%	16V	
						C3556	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
						C3557	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3558	1-126-947-11	ELECT	47μF	20%	16V	
						C3559	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3560	1-126-947-11	ELECT	47μF	20%	16V	
						C3561	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3562	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3563	1-126-947-11	ELECT	47μF	20%	16V	
						C3564	1-126-947-11	ELECT	47μF	20%	16V	
						C3565	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						C3566	1-163-031-91	CERAMIC CHIP	0.01μF		50V	
						CONNECTOR						
						* CN3500	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P				
						FERRITE BEAD						
					FB3500	1-414-234-22	FERRITE	0μH				
					FB3501	1-414-234-22	FERRITE	0μH				
					FB3502	1-414-234-22	FERRITE	0μH				
					FB3503	1-414-234-22	FERRITE	0μH				
					C3500	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3501	1-163-231-11	CERAMIC CHIP	15pF	5%	50V		
					C3502	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3504	1-163-102-00	CERAMIC CHIP	24pF	5%	50V		
					C3505	1-163-102-00	CERAMIC CHIP	24pF	5%	50V		
					C3506	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3507	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3509	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C3510	1-163-131-00	CERAMIC CHIP	390pF	5%	50V		
					C3511	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C3512	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3513	1-216-295-91	SHORT					
					C3514	1-163-031-91	CERAMIC CHIP	0.01μF		50V		
					C3515	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3516	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3517	1-126-924-11	ELECT	330μF	20%	6.3V		
					C3518	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C3519	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3520	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3521	1-163-237-11	CERAMIC CHIP	27pF	5%	50V		
					C3522	1-126-947-11	ELECT	47μF	20%	16V		
					C3523	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3524	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3525	1-163-038-91	CERAMIC CHIP	0.1μF		25V		
					C3526	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3527	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3528	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3529	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3530	1-126-947-11	ELECT	47μF	20%	16V		
					C3531	1-165-319-11	CERAMIC CHIP	0.1μF		50V		
					C3532	1-126-964-11	ELECT	10μF	20%	50V		
					C3533	1-163-133-00	CERAMIC CHIP	470pF	5%	50V		



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FB3504	1-414-234-22	FERRITE	0μH	R3506	1-216-295-91	SHORT	
FB3505	1-414-234-22	FERRITE	0μH	R3507	1-216-295-91	SHORT	
FB3506	1-414-234-22	FERRITE	0μH	R3508	1-216-295-91	SHORT	
FB3507	1-414-234-22	FERRITE	0μH	R3509	1-216-049-11	RES-CHIP	1K 5% 1/10W
FB3508	1-414-234-22	FERRITE	0μH	R3510	1-216-041-00	RES-CHIP	470 5% 1/10W
FB3509	1-414-234-22	FERRITE	0μH	R3511	1-216-041-00	RES-CHIP	470 5% 1/10W
<u>FILTER</u>				R3512	1-216-295-91	SHORT	
FL3500	1-239-848-21	FILTER, LOW PASS		R3514	1-216-025-11	RES-CHIP	100 5% 1/10W
FL3501	1-239-848-21	FILTER, LOW PASS		R3515	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
FL3502	1-239-848-21	FILTER, LOW PASS		R3516	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
FL3503	1-239-848-21	FILTER, LOW PASS		R3517	1-216-025-11	RES-CHIP	100 5% 1/10W
FL3504	1-233-512-21	FERRITE	37μH	R3518	1-216-025-11	RES-CHIP	100 5% 1/10W
FL3505	1-233-512-21	FERRITE	37μH	R3519	1-216-295-91	SHORT	
FL3506	1-233-512-21	FERRITE	37μH	R3520	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
<u>IC</u>				R3521	1-216-041-00	RES-CHIP	470 5% 1/10W
IC3500	8-759-473-05	IC UPD424210LE-60-E2		R3522	1-216-041-00	RES-CHIP	470 5% 1/10W
IC3501	8-759-594-44	IC UPD64082GF-3BA		R3523	1-216-049-11	RES-CHIP	1K 5% 1/10W
IC3502	8-759-641-30	IC NJM2391DL1-33-TEI		R3524	1-216-089-91	RES-CHIP	47K 5% 1/10W
<u>COIL</u>				R3525	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
L3500	1-414-265-21	INDUCTOR	4.7μH	R3526	1-216-105-91	RES-CHIP	220K 5% 1/10W
L3501	1-412-058-11	INDUCTOR	10μH	R3527	1-216-033-00	RES-CHIP	220 5% 1/10W
L3502	1-412-058-11	INDUCTOR	10μH	R3528	1-208-776-11	METAL CHIP	560 0.50% 1/10W
L3503	1-412-058-11	INDUCTOR	10μH	R3529	1-208-772-11	METAL CHIP	390 0.50% 1/10W
L3504	1-412-058-11	INDUCTOR	10μH	R3530	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
L3505	1-412-058-11	INDUCTOR	10μH	R3531	1-216-049-11	RES-CHIP	1K 5% 1/10W
<u>TRANSISTOR</u>				R3532	1-216-025-11	RES-CHIP	100 5% 1/10W
Q3500	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3533	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3535	1-216-025-11	RES-CHIP	100 5% 1/10W
Q3502	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3538	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3539	1-216-043-91	RES-CHIP	560 5% 1/10W
Q3504	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3540	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3505	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3541	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
Q3506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3542	1-216-043-91	RES-CHIP	560 5% 1/10W
Q3508	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3543	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3509	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3544	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q3510	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3545	1-216-043-91	RES-CHIP	560 5% 1/10W
Q3511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3547	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
Q3512	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3548	1-216-295-91	SHORT	
Q3513	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3549	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q3514	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R3550	1-208-780-11	METAL CHIP	820 0.50% 1/10W
Q3515	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3551	1-216-043-91	RES-CHIP	560 5% 1/10W
Q3516	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3552	1-216-031-00	RES-CHIP	180 5% 1/10W
Q3517	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R3553	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
<u>RESISTOR</u>				R3554	1-216-047-91	RES-CHIP	820 5% 1/10W
R3503	1-216-017-91	RES-CHIP	47 5% 1/10W	R3555	1-216-075-00	RES-CHIP	12K 5% 1/10W
R3504	1-216-295-91	SHORT		R3556	1-216-085-91	RES-CHIP	33K 5% 1/10W
R3505	1-216-295-91	SHORT		R3557	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R3558	1-216-017-91	RES-CHIP	47 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3559	1-216-295-91	SHORT				C3025	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
R3560	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3026	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
R3561	1-216-043-91	RES-CHIP	560	5%	1/10W	C3027	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
R3563	1-216-295-91	SHORT				C3028	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
R3564	1-216-295-91	SHORT				C3030	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R3565	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	C3031	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R3566	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3032	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R3567	1-216-043-91	RES-CHIP	560	5%	1/10W	C3033	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
R3568	1-216-047-91	RES-CHIP	820	5%	1/10W	C3034	1-164-156-11	CERAMIC CHIP	0.1μF		25V
R3569	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3035	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
R3570	1-216-085-91	RES-CHIP	33K	5%	1/10W	C3036	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R3571	1-216-075-00	RES-CHIP	12K	5%	1/10W	C3037	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
R3572	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3039	1-124-779-00	ELECT CHIP	10μF	20%	16V
R3573	1-216-017-91	RES-CHIP	47	5%	1/10W	C3040	1-124-779-00	ELECT CHIP	10μF	20%	16V
R3588	1-216-043-91	RES-CHIP	560	5%	1/10W	C3041	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
R3589	1-216-105-91	RES-CHIP	220K	5%	1/10W	C3043	1-164-156-11	CERAMIC CHIP	0.1μF		25V
CRYSTAL						C3044	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
X3500	1-767-606-11	VIBRATOR, CRYSTAL				C3045	1-124-779-00	ELECT CHIP	10μF	20%	16V
B						C3046	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
* A-1136-200-A B COMPLETE PC BOARD						C3047	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
CAPACITOR						C3048	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3001	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3049	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3002	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3050	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3003	1-128-453-21	ELECT CHIP	47μF	20%	6.3V	C3051	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3004	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3054	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3005	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3055	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3006	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3056	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3007	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3057	1-126-603-11	ELECT CHIP	4.7μF	20%	35V
C3008	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3059	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3009	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C3060	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3010	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3061	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3011	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C3062	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3012	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3063	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3013	1-104-601-11	ELECT CHIP	10μF	20%	10V	C3064	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3014	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3066	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3015	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3067	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3016	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3068	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3017	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3069	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3018	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3070	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3019	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3071	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3020	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3072	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3021	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3073	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3022	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3074	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3023	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3075	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C3024	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3076	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
						C3078	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C3079	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V
						C3080	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3081	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3212	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3082	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3213	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3083	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C3215	1-126-401-21	ELECT CHIP	1μF	20%	50V
C3085	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3216	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3086	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3218	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3087	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3219	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3088	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3220	1-128-993-21	ELECT CHIP	22μF	20%	10V
C3089	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3221	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3090	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3222	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3091	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3223	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3092	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3224	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3093	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3225	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3094	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3226	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3096	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3227	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3097	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3229	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3098	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3235	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3099	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C3236	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3113	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3237	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3114	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3239	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3115	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3116	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3241	1-164-361-11	CERAMIC CHIP	0.047μF		25V
C3117	1-126-603-11	ELECT CHIP	4.7μF	20%	35V	C3242	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3120	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3243	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3127	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3245	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3128	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3246	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3129	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3247	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3130	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C3248	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3131	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3249	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3132	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3250	1-216-295-91	SHORT			
C3133	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V	C3251	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3134	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3252	1-216-295-91	SHORT			
C3135	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3253	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C3136	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C3254	1-127-573-11	CERAMIC CHIP	1μF	10%	16V
C3137	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3255	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3138	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3301	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3139	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C3302	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3140	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3303	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3141	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C3304	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3142	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3305	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3172	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3306	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3173	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3307	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3204	1-126-193-11	ELECT CHIP	1μF	20%	50V	C3308	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3205	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3309	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3206	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3310	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3208	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3311	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3209	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3312	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3210	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3313	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3211	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3314	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3367	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3368	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3369	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3371	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3372	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3320	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3374	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3321	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3375	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V
C3322	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3376	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3323	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3324	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3378	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3325	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3379	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3401	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3327	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3402	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3328	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3403	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3331	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3404	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3332	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3405	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3333	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3406	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3335	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3407	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3336	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3408	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3338	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3409	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3339	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3410	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3340	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3411	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3341	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3412	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3413	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3344	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3414	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3345	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3415	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3346	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3416	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3347	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3417	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3348	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3418	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3349	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3419	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3420	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3351	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3421	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3352	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3422	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3353	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3423	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3354	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3424	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3355	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3425	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V
C3356	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3426	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3357	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3428	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3358	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3429	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3359	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3430	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3360	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3431	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3361	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3432	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3362	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C3433	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3363	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3434	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3364	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3435	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3365	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3436	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3366	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3437	1-126-204-11	ELECT CHIP	47μF	20%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3438	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3491	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3439	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3492	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3493	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	C3494	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3442	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3495	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3496	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3444	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3604	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3445	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3605	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3446	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C3606	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3447	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3607	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3448	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3608	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C3449	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3609	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C3450	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3610	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3452	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3611	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3453	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3612	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3454	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3613	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3455	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3618	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3619	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3457	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3623	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C3458	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3624	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C3625	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3626	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V
C3463	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3627	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3464	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3628	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3629	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3466	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3630	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3467	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3635	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3468	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3636	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3637	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3470	1-126-206-11	ELECT CHIP	100μF	20%	6.3V	C3638	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3473	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3639	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3474	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3640	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C3475	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3641	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3476	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3642	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3643	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3478	1-126-204-11	ELECT CHIP	47μF	20%	16V	C3644	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3479	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3652	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C3480	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3653	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3481	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3654	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3482	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3655	1-164-816-11	CERAMIC CHIP	220pF	2%	50V
C3483	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3656	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3484	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C3657	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C3485	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3658	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C3486	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3659	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3487	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3660	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3488	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3489	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3490	1-124-779-00	ELECT CHIP	10μF	20%	16V						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
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	1-781-923-11	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) 64P	FL3401	1-781-923-21	FILTER, LOW PASS (SMD)	
DIODE				IC			
	D3001	8-719-978-33	DIODE UDZSTE-176.8B	IC3001	8-752-093-84	IC CXA2151Q	
	D3002	8-719-978-33	DIODE UDZSTE-176.8B	IC3002	8-759-595-97	IC SN74LV4053ANSR	
	D3003	8-719-978-33	DIODE UDZSTE-176.8B	IC3003	8-752-394-69	IC CXD2073Q-T4	
	D3004	8-719-978-33	DIODE UDZSTE-176.8B	IC3004	8-759-595-97	IC SN74LV4053ANSR	
	D3005	8-719-978-33	DIODE UDZSTE-176.8B	IC3048	8-752-089-50	IC CXA2103Q	
	D3006	8-719-978-33	DIODE UDZSTE-176.8B	IC3089	6-700-149-01	IC M24C04-MN6T(A)	
	D3007	8-719-978-33	DIODE UDZSTE-176.8B	IC3090	6-800-050-01	IC MB94918RpF-G-137-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 UDZSTE-1710B	IC3201	8-752-080-04	IC CXA2069Q	
	D3202	8-719-977-28	DIODE UDZSTE-1710B	IC3202	8-759-351-01	IC TEA6422DT	
	D3204	8-719-977-28	DIODE UDZSTE-1710B	IC3203	8-759-331-71	IC NJM4558E(Te2)	
	D3205	8-719-977-28	DIODE UDZSTE-1710B	IC3301	6-700-134-01	IC IS42S16100-7T	
	D3206	8-719-977-28	DIODE UDZSTE-1710B	IC3302	8-749-015-18	IC PQ07VZ012P	
	D3209	8-719-914-44	DIODE DAP202K-T-146	IC3303	8-752-409-78	IC CXD2095AQ	
	D3210	8-719-041-97	DIODE MA113-(TX)	IC3304	8-759-447-90	IC TLC5733AIPM	
	D3211	8-719-404-50	DIODE MA111-TX	IC3305	8-759-669-75	IC TLC2932IPWR	
	D3212	8-719-977-28	DIODE UDZSTE-1710B	IC3306	8-759-669-78	IC TLC2933IPWR-12	
	D3213	8-719-977-28	DIODE UDZSTE-1710B	IC3401	8-749-015-18	IC PQ07VZ012P	
	D3214	8-719-977-28	DIODE UDZSTE-1710B	IC3402	8-759-675-89	IC TC59S6432CFT-80(YB)	
	D3215	8-719-977-28	DIODE UDZSTE-1710B	IC3403	8-759-460-29	IC PST9120NL	
	D3216	8-719-977-28	DIODE UDZSTE-1710B	IC3404	8-759-669-75	IC TLC2932IPWR	
	D3217	8-719-977-28	DIODE UDZSTE-1710B	IC3405	8-759-485-79	IC TC7SET08FU(Te85R)	
	D3301	8-719-056-77	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 UDZSTE-176.8B	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	1-216-295-91	SHORT	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	
	FB3206	1-414-234-22	FERRITE 0μH	IC3602	8-752-916-40	IC CXP85840A-039Q	
	FB3401	1-414-235-22	FERRITE 0μH	IC3603	8-752-395-13	IC CXD2085M-T4	
	FB3402	1-414-235-22	FERRITE 0μH	IC3604	8-759-700-07	IC NJM2903M-TE2	
	FB3601	1-414-235-22	FERRITE 0μH	COIL			
	FB3603	1-414-533-21	INDUCTOR 8.2μH	L3001	1-216-295-91	SHORT	
				L3002	1-469-555-21	INDUCTOR	10μH
				L3003	1-469-555-21	INDUCTOR	10μH



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3051	1-469-555-21	INDUCTOR	10μH	Q3009	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3089	1-414-233-22	FERRITE	0μH	Q3010	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3112	1-469-555-21	INDUCTOR	10μH	Q3011	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3113	1-469-555-21	INDUCTOR	10μH	Q3014	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3301	1-412-058-11	INDUCTOR	10μH	Q3015	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3302	1-469-555-21	INDUCTOR	10μH	Q3016	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3303	1-412-052-21	INDUCTOR	1μH	Q3017	8-729-424-02	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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3407	1-469-555-21	INDUCTOR	10μH	Q3053	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3409	1-469-555-21	INDUCTOR	10μH	Q3054	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3410	1-412-052-21	INDUCTOR	1μH	Q3056	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3411	1-412-058-11	INDUCTOR	10μH	Q3058	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3412	1-469-555-21	INDUCTOR	10μH	Q3089	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3413	1-469-555-21	INDUCTOR	10μH	Q3090	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3414	1-469-555-21	INDUCTOR	10μH	Q3091	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L3416	1-469-555-21	INDUCTOR	10μH	Q3101	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3601	1-469-555-21	INDUCTOR	10μH	Q3102	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3602	1-412-951-11	INDUCTOR	10μH	Q3103	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3603	1-469-555-21	INDUCTOR	10μH	Q3104	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3604	1-412-951-11	INDUCTOR	10μH	Q3110	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3605	1-469-555-21	INDUCTOR	10μH	Q3111	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3606	1-469-555-21	INDUCTOR	10μH	Q3112	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L3607	1-469-555-21	INDUCTOR	10μH	Q3201	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3608	1-414-754-11	INDUCTOR	10μH	Q3202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L3609	1-414-754-11	INDUCTOR	10μH	Q3203	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
TRANSISTOR				Q3204	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q3001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q3205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q3206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3003	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		Q3207	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
				Q3208	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q3209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R3007	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3210	8-729-424-02	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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3012	1-216-864-11	SHORT			
Q3215	8-729-424-02	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			
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	8-729-424-02	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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3026	1-216-035-00	RES-CHIP	270	5%	1/10W
Q3406	8-729-424-02	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	8-729-424-02	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			
Q3410	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3035	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3411	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3036	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3412	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3037	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3413	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3038	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3414	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R3039	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3415	8-729-424-02	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
R3003	1-216-842-11	RES-CHIP	56K	5%	1/16W	R3060	1-216-809-11	RES-CHIP	100	5%	1/16W
R3004	1-216-818-11	RES-CHIP	560	5%	1/16W	R3061	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3005	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3062	1-218-697-11	METAL CHIP	1.6K	0.50%	1/16W
R3006	1-216-817-11	RES-CHIP	470	5%	1/16W	R3063	1-218-716-11	METAL CHIP	10K	0.50%	1/16W



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



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3193	1-218-698-11	METAL CHIP	1.8K	0.50%	1/16W	R3250	1-216-809-11	RES-CHIP	100	5%	1/16W
R3194	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3254	1-216-809-11	RES-CHIP	100	5%	1/16W
R3195	1-216-816-11	RES-CHIP	390	5%	1/16W						
R3196	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3255	1-216-809-11	RES-CHIP	100	5%	1/16W
R3197	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3256	1-216-809-11	RES-CHIP	100	5%	1/16W
						R3257	1-216-809-11	RES-CHIP	100	5%	1/16W
R3198	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3258	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3201	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3259	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3202	1-216-809-11	RES-CHIP	100	5%	1/16W	R3260	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3203	1-216-809-11	RES-CHIP	100	5%	1/16W	R3261	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3204	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3262	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3205	1-216-809-11	RES-CHIP	100	5%	1/16W	R3263	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3207	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3264	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3208	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3265	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3209	1-216-809-11	RES-CHIP	100	5%	1/16W	R3266	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3267	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3211	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3268	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3269	1-216-809-11	RES-CHIP	100	5%	1/16W
R3213	1-216-809-11	RES-CHIP	100	5%	1/16W	R3270	1-249-382-11	CARBON	1.2	5%	1/4W
R3215	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3272	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3216	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3273	1-216-819-11	RES-CHIP	680	5%	1/16W
R3217	1-216-809-11	RES-CHIP	100	5%	1/16W	R3275	1-216-819-11	RES-CHIP	680	5%	1/16W
R3218	1-216-809-11	RES-CHIP	100	5%	1/16W	R3276	1-216-819-11	RES-CHIP	680	5%	1/16W
R3219	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3277	1-216-819-11	RES-CHIP	680	5%	1/16W
R3220	1-216-809-11	RES-CHIP	100	5%	1/16W	R3279	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3221	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3280	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3222	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3281	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3223	1-216-809-11	RES-CHIP	100	5%	1/16W	R3282	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3224	1-216-815-11	RES-CHIP	330	5%	1/16W	R3284	1-216-864-11	SHORT			
R3226	1-216-809-11	RES-CHIP	100	5%	1/16W	R3285	1-216-817-11	RES-CHIP	470	5%	1/16W
R3227	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3286	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R3228	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3287	1-216-817-11	RES-CHIP	470	5%	1/16W
R3229	1-216-809-11	RES-CHIP	100	5%	1/16W	R3288	1-218-686-11	METAL CHIP	560	0.50%	1/16W
R3230	1-216-809-11	RES-CHIP	100	5%	1/16W	R3289	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3231	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3290	1-216-809-11	RES-CHIP	100	5%	1/16W
R3232	1-216-809-11	RES-CHIP	100	5%	1/16W	R3291	1-216-842-11	RES-CHIP	56K	5%	1/16W
R3233	1-216-809-11	RES-CHIP	100	5%	1/16W	R3292	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3234	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3293	1-216-803-11	RES-CHIP	33	5%	1/16W
R3235	1-216-809-11	RES-CHIP	100	5%	1/16W	R3294	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3236	1-216-809-11	RES-CHIP	100	5%	1/16W	R3296	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3240	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3297	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3241	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3298	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3242	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3299	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3244	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3300	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3246	1-216-809-11	RES-CHIP	100	5%	1/16W	R3301	1-216-809-11	RES-CHIP	100	5%	1/16W
R3247	1-216-809-11	RES-CHIP	100	5%	1/16W	R3302	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3248	1-216-809-11	RES-CHIP	100	5%	1/16W	R3303	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W
R3249	1-216-809-11	RES-CHIP	100	5%	1/16W	R3304	1-218-692-11	METAL CHIP	1K	0.50%	1/16W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3305	1-216-809-11	RES-CHIP	100	5%	1/16W	R3354	1-216-813-11	RES-CHIP	220	5%	1/16W
R3306	1-216-809-11	RES-CHIP	100	5%	1/16W	R3355	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3307	1-216-864-11	SHORT				R3356	1-216-864-11	SHORT			
R3308	1-216-864-11	SHORT				R3357	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3309	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3358	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3310	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3359	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3311	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3312	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3361	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3313	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3364	1-216-864-11	SHORT			
R3314	1-211-990-11	METAL CHIP	75	0.50%	1/16W	R3366	1-216-864-11	SHORT			
R3315	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3367	1-216-803-11	RES-CHIP	33	5%	1/16W
R3316	1-211-989-11	METAL CHIP	68	0.50%	1/16W	R3369	1-216-864-11	SHORT			
R3317	1-211-989-11	METAL CHIP	68	0.50%	1/16W	R3371	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3318	1-211-990-11	METAL CHIP	75	0.50%	1/16W	R3372	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3319	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3373	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3320	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3382	1-216-864-11	SHORT			
R3321	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3401	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3322	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3403	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3323	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3404	1-216-864-11	SHORT			
R3324	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3405	1-216-864-11	SHORT			
R3325	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3410	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3326	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3421	1-216-295-91	SHORT			
R3327	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3422	1-216-295-91	SHORT			
R3328	1-216-864-11	SHORT				R3423	1-216-813-11	RES-CHIP	220	5%	1/16W
R3329	1-216-815-11	RES-CHIP	330	5%	1/16W	R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3330	1-216-815-11	RES-CHIP	330	5%	1/16W	R3432	1-216-815-11	RES-CHIP	330	5%	1/16W
R3331	1-216-841-11	RES-CHIP	47K	5%	1/16W	R3434	1-216-809-11	RES-CHIP	100	5%	1/16W
R3332	1-218-272-11	RES-CHIP	5.1K	5%	1/16W	R3445	1-216-864-11	SHORT			
R3333	1-216-864-11	SHORT				R3446	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3334	1-216-809-11	RES-CHIP	100	5%	1/16W	R3447	1-216-819-11	RES-CHIP	680	5%	1/16W
R3335	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3448	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3337	1-216-820-11	RES-CHIP	820	5%	1/16W	R3452	1-216-295-91	SHORT			
R3338	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3339	1-216-855-11	RES-CHIP	680K	5%	1/16W	R3460	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3340	1-216-855-11	RES-CHIP	680K	5%	1/16W	R3461	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3341	1-216-813-11	RES-CHIP	220	5%	1/16W	R3464	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3342	1-220-158-11	RES-CHIP	3.6K	5%	1/16W	R3465	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3343	1-216-809-11	RES-CHIP	100	5%	1/16W	R3467	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3344	1-216-853-11	RES-CHIP	470K	5%	1/16W	R3470	1-216-809-11	RES-CHIP	100	5%	1/16W
R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W	R3471	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3346	1-216-809-11	RES-CHIP	100	5%	1/16W	R3472	1-216-801-11	RES-CHIP	22	5%	1/16W
R3347	1-216-815-11	RES-CHIP	330	5%	1/16W	R3475	1-216-809-11	RES-CHIP	100	5%	1/16W
R3348	1-216-864-11	SHORT				R3476	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3349	1-218-687-11	METAL CHIP	620	0.50%	1/16W	R3477	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W
R3350	1-216-814-11	RES-CHIP	270	5%	1/16W	R3478	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3483	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W
R3352	1-216-853-11	RES-CHIP	470K	5%	1/16W	R3484	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3353	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3485	1-216-821-11	RES-CHIP	1K	5%	1/16W




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3486	1-216-801-11	RES-CHIP	22	5%	1/16W	R3654	1-216-813-11	RES-CHIP	220	5%	1/16W
R3489	1-216-864-11	SHORT				R3655	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3490	1-216-864-11	SHORT				R3656	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3491	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3657	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3492	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R3658	1-216-815-11	RES-CHIP	330	5%	1/16W
R3493	1-218-701-11	METAL CHIP	2.4K	0.50%	1/16W	R3659	1-216-815-11	RES-CHIP	330	5%	1/16W
R3495	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3660	1-216-815-11	RES-CHIP	330	5%	1/16W
R3496	1-216-801-11	RES-CHIP	22	5%	1/16W	R3661	1-216-809-11	RES-CHIP	100	5%	1/16W
R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R3662	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3498	1-216-818-11	RES-CHIP	560	5%	1/16W	R3663	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3499	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3664	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3602	1-216-809-11	RES-CHIP	100	5%	1/16W	R3665	1-216-817-11	RES-CHIP	470	5%	1/16W
R3606	1-216-864-11	SHORT				R3666	1-216-809-11	RES-CHIP	100	5%	1/16W
R3609	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3667	1-216-839-11	RES-CHIP	33K	5%	1/16W
R3610	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3668	1-216-797-11	RES-CHIP	10	5%	1/16W
R3611	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3669	1-216-809-11	RES-CHIP	100	5%	1/16W
R3612	1-216-857-11	RES-CHIP	1M	5%	1/16W	R3672	1-216-864-11	SHORT			
R3613	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3673	1-216-809-11	RES-CHIP	100	5%	1/16W
R3614	1-216-813-11	RES-CHIP	220	5%	1/16W	R3674	1-216-813-11	RES-CHIP	220	5%	1/16W
R3615	1-216-809-11	RES-CHIP	100	5%	1/16W	R3675	1-216-813-11	RES-CHIP	220	5%	1/16W
R3616	1-216-805-11	RES-CHIP	47	5%	1/16W	R3676	1-216-809-11	RES-CHIP	100	5%	1/16W
R3617	1-216-805-11	RES-CHIP	47	5%	1/16W	R3677	1-216-809-11	RES-CHIP	100	5%	1/16W
R3618	1-216-817-11	RES-CHIP	470	5%	1/16W	R3678	1-216-809-11	RES-CHIP	100	5%	1/16W
R3619	1-216-809-11	RES-CHIP	100	5%	1/16W	R3679	1-216-809-11	RES-CHIP	100	5%	1/16W
R3620	1-216-813-11	RES-CHIP	220	5%	1/16W	R3680	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3621	1-216-813-11	RES-CHIP	220	5%	1/16W	R3681	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3622	1-216-813-11	RES-CHIP	220	5%	1/16W	R3682	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3623	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3683	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3624	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3684	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3625	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3685	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3626	1-216-815-11	RES-CHIP	330	5%	1/16W	R3686	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3627	1-216-815-11	RES-CHIP	330	5%	1/16W	R3687	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3628	1-216-815-11	RES-CHIP	330	5%	1/16W	R3688	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3630	1-216-809-11	RES-CHIP	100	5%	1/16W	R3689	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3639	1-216-864-11	SHORT				R3690	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3640	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3691	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3641	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3692	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3642	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3693	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3644	1-216-857-11	RES-CHIP	1M	5%	1/16W	R3694	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3645	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3695	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3646	1-216-813-11	RES-CHIP	220	5%	1/16W	R3696	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3647	1-216-809-11	RES-CHIP	100	5%	1/16W	R3697	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3648	1-216-805-11	RES-CHIP	47	5%	1/16W	R3698	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3649	1-216-805-11	RES-CHIP	47	5%	1/16W	R3699	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3650	1-216-817-11	RES-CHIP	470	5%	1/16W	R3800	1-216-864-11	SHORT			
R3651	1-216-809-11	RES-CHIP	100	5%	1/16W	R3802	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3652	1-216-813-11	RES-CHIP	220	5%	1/16W	R3803	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3653	1-216-813-11	RES-CHIP	220	5%	1/16W	R3804	1-208-762-11	METAL CHIP	150	0.50%	1/10W




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3805	1-208-762-11	METAL CHIP	150	0.50%	1/10W	R3870	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3806	1-218-662-11	METAL CHIP	56	0.50%	1/16W	R3871	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3807	1-208-754-11	METAL CHIP	68	0.50%	1/10W	R3872	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3808	1-208-755-11	METAL CHIP	75	0.50%	1/10W	R3873	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3809	1-208-755-11	METAL CHIP	75	0.50%	1/10W	R3874	1-211-990-11	METAL CHIP	75	0.50%	1/16W
R3810	1-208-758-11	METAL CHIP	100	0.50%	1/10W	R3876	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R3811	1-216-809-11	RES-CHIP	100	5%	1/16W	R3901	1-216-035-00	RES-CHIP	270	5%	1/10W
R3812	1-216-809-11	RES-CHIP	100	5%	1/16W	R3902	1-216-035-00	RES-CHIP	270	5%	1/10W
R3813	1-216-809-11	RES-CHIP	100	5%	1/16W	R3903	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3814	1-211-969-11	METAL CHIP	10	0.50%	1/16W	R3904	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3815	1-211-973-11	METAL CHIP	15	0.50%	1/16W	R3905	1-216-809-11	RES-CHIP	100	5%	1/16W
R3816	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3906	1-216-809-11	RES-CHIP	100	5%	1/16W
R3817	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3907	1-216-809-11	RES-CHIP	100	5%	1/16W
R3820	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3908	1-216-809-11	RES-CHIP	100	5%	1/16W
R3821	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3909	1-216-809-11	RES-CHIP	100	5%	1/16W
R3822	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3910	1-216-809-11	RES-CHIP	100	5%	1/16W
R3823	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3914	1-216-864-11	SHORT			
R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3915	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3825	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3916	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3826	1-216-809-11	RES-CHIP	100	5%	1/16W	R3917	1-211-969-11	METAL CHIP	10	0.50%	1/16W
R3828	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3924	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3829	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3925	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3830	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3926	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3831	1-216-864-11	SHORT				R3933	1-216-864-11	SHORT			
R3832	1-216-864-11	SHORT				R3937	1-216-809-11	RES-CHIP	100	5%	1/16W
R3833	1-216-864-11	SHORT				R3940	1-216-864-11	SHORT			
R3840	1-216-807-11	RES-CHIP	68	5%	1/16W	R3942	1-216-864-11	SHORT			
R3843	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W	R3943	1-216-864-11	SHORT			
R3844	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W	R3945	1-216-864-11	SHORT			
R3845	1-218-692-11	METAL CHIP	1K	0.50%	1/16W	R3946	1-216-864-11	SHORT			
R3846	1-216-801-11	RES-CHIP	22	5%	1/16W	R3953	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3847	1-216-801-11	RES-CHIP	22	5%	1/16W	R3954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3848	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R3955	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3849	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R3956	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3850	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R3957	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3851	1-216-809-11	RES-CHIP	100	5%	1/16W	R3958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3852	1-218-675-11	METAL CHIP	200	0.50%	1/16W	R3959	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3854	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R3960	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3857	1-216-809-11	RES-CHIP	100	5%	1/16W	R3961	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W						
R3862	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R3863	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W						
R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
R3865	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3866	1-414-234-22	FERRITE	0μH								
R3867	1-414-234-22	FERRITE	0μH								
R3868	1-414-234-22	FERRITE	0μH								
R3869	1-218-719-11	METAL CHIP	13K	0.50%	1/16W						
RESISTOR BRIDGE											
RB3301	1-234-525-21	RES, CHIP NETWORK	56			RB3301	1-234-525-21	RES, CHIP NETWORK	56		
RB3302	1-234-525-21	RES, CHIP NETWORK	56			RB3302	1-234-525-21	RES, CHIP NETWORK	56		
RB3303	1-234-525-21	RES, CHIP NETWORK	56			RB3303	1-234-525-21	RES, CHIP NETWORK	56		
RB3304	1-234-525-21	RES, CHIP NETWORK	56			RB3304	1-234-525-21	RES, CHIP NETWORK	56		
RB3305	1-234-525-21	RES, CHIP NETWORK	56			RB3305	1-234-525-21	RES, CHIP NETWORK	56		
RB3306	1-234-525-21	RES, CHIP NETWORK	56			RB3306	1-234-525-21	RES, CHIP NETWORK	56		
RB3307	1-234-525-21	RES, CHIP NETWORK	56			RB3307	1-234-525-21	RES, CHIP NETWORK	56		






REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
RB3401	1-234-524-21	RES, CHIP NETWORK	33	C004	1-126-967-11	ELECT	47μF 20% 50V
RB3402	1-234-524-21	RES, CHIP NETWORK	33	C005	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3403	1-234-524-21	RES, CHIP NETWORK	33	C006	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3404	1-234-524-21	RES, CHIP NETWORK	33	C007	1-126-933-11	ELECT	100μF 20% 16V
RB3405	1-234-524-21	RES, CHIP NETWORK	33	C008	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
RB3406	1-234-524-21	RES, CHIP NETWORK	33	C009	1-126-964-11	ELECT	10μF 20% 50V
RB3407	1-234-524-21	RES, CHIP NETWORK	33	C010	1-126-933-11	ELECT	100μF 20% 16V
RB3408	1-234-524-21	RES, CHIP NETWORK	33	C011	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
RB3409	1-234-524-21	RES, CHIP NETWORK	33	C012	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3410	1-234-524-21	RES, CHIP NETWORK	33	C013	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3411	1-234-524-21	RES, CHIP NETWORK	33	C014	1-126-960-11	ELECT	1μF 20% 50V
RB3412	1-234-524-21	RES, CHIP NETWORK	33	C023	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3413	1-233-576-11	RES, CHIP NETWORK	100	C025	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3414	1-233-576-11	RES, CHIP NETWORK	100	C027	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3415	1-233-576-11	RES, CHIP NETWORK	100	C028	1-126-933-11	ELECT	100μF 20% 16V
RB3416	1-233-576-11	RES, CHIP NETWORK	100	C030	1-104-665-11	ELECT	100μF 20% 10V
RB3417	1-233-576-11	RES, CHIP NETWORK	100	C032	1-126-933-11	ELECT	100μF 20% 16V
RB3418	1-233-576-11	RES, CHIP NETWORK	100	C035	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3419	1-233-576-11	RES, CHIP NETWORK	100	C037	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
RB3420	1-233-576-11	RES, CHIP NETWORK	100	C038	1-126-935-11	ELECT	470μF 20% 16V
RB3421	1-233-576-11	RES, CHIP NETWORK	100	C039	1-126-964-11	ELECT	10μF 20% 50V
RB3422	1-233-576-11	RES, CHIP NETWORK	100	C041	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
RB3423	1-233-576-11	RES, CHIP NETWORK	100	C048	1-126-964-11	ELECT	10μF 20% 50V
RB3424	1-233-576-11	RES, CHIP NETWORK	100	C051	1-107-714-11	ELECT	10μF 20% 16V
RB3425	1-233-576-11	RES, CHIP NETWORK	100	C052	1-107-714-11	ELECT	10μF 20% 16V
CRYSTAL				C115	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
X3001	1-577-082-11	VIBRATOR, CERAMIC		C116	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
X3047	1-567-505-11	OSCILLATOR, CRYSTAL		C117	1-164-346-11	CERAMIC CHIP	1μF 16V
X3089	1-781-945-21	VIBRATOR, CERAMIC		C119	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
X3110	1-567-505-11	OSCILLATOR, CRYSTAL		C120	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
X3401	1-781-887-21	VIBRATOR, CRYSTAL		C121	1-164-346-11	CERAMIC CHIP	1μF 16V
X3601	1-767-179-31	VIBRATOR, CERAMIC		C205	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
X3602	1-767-179-31	VIBRATOR, CERAMIC		C210	1-127-760-11	CERAMIC CHIP	4.7μF 10% 6.3V
X3603	1-767-989-11	VIBRATOR, CERAMIC		C211	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
A				C212	1-126-933-11	ELECT	100μF 20% 16V
*	A-1299-481-A	A COMPLETE PC BOARD		C213	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
		(KV-38DRC2 ONLY)		C214	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
*	A-1299-552-A	A COMPLETE PC BOARD		C216	1-126-933-11	ELECT	100μF 20% 16V
		(KV-38DRC2C ONLY)		C217	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
				C219	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V
*	4-374-846-11	COVER,CAPACITOR, CAP TYPE		C220	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
	4-382-854-01	SCREW (M3X8), P, SW (+)		C221	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
				C222	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
CAPACITOR				C224	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C001	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C225	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C002	1-104-665-11	ELECT	100μF 20% 10V	C226	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C003	1-126-960-11	ELECT	1μF 20% 50V	C227	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V

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  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C229	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C722	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C230	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C724	1-126-961-11	ELECT	2.2μF	20%	50V
C232	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C731	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V
C233	1-164-492-11	CERAMIC CHIP	0.15μF	10%	16V	C732	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C234	1-125-838-11	CERAMIC CHIP	2.2μF	10%	6.3V	C733	1-163-031-91	CERAMIC CHIP	0.01μF		50V
C235	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C735	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C236	1-126-964-11	ELECT	10μF	20%	50V	C747	1-126-767-11	ELECT	1000μF	20%	16V
C237	1-126-933-11	ELECT	100μF	20%	16V	C748	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C238	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	 C6002	1-136-346-21	MYLAR	0.22μF	20%	125V
C239	1-126-964-11	ELECT	10μF	20%	50V	C6003	1-117-227-11	MYLAR	1μF	10%	450V
C240	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C6004	1-126-961-11	ELECT	2.2μF	20%	50V
C241	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C6005	1-126-961-11	ELECT	2.2μF	20%	50V
C242	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C6006	1-126-967-11	ELECT	47μF	20%	50V
C243	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C6007	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V
C244	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C6008	1-126-968-11	ELECT	100μF	20%	50V
C245	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C6009	1-104-664-11	ELECT	47μF	20%	25V
C246	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C6011	1-126-968-11	ELECT	100μF	20%	50V
C247	1-126-933-11	ELECT	100μF	20%	16V	C6013	1-119-887-51	CERAMIC	1000pF	20%	250V
C248	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C6014	1-135-945-21	FILM	10000pF	3%	800V
C249	1-126-967-11	ELECT	47μF	20%	50V	C6015	1-130-495-00	MYLAR	0.1μF	5%	50V
C250	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	C6017	1-125-969-91	CERAMIC	680pF	10%	1KV
C251	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V	C6018	1-126-929-11	ELECT	4700μF	20%	10V
C252	1-126-933-11	ELECT	100μF	20%	16V	C6019	1-128-546-11	ELECT	10000μF	20%	10V
C253	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V	C6020	1-126-936-11	ELECT	3300μF	20%	16V
C254	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V	C6021	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V
C255	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	C6026	1-126-933-11	ELECT	100μF	20%	16V
C256	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	C6027	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C257	1-127-760-11	CERAMIC CHIP	4.7μF	10%	6.3V	C6028	1-113-924-11	CERAMIC (KV-38DRC2C ONLY)	0.0047μF	20%	250V
C258	1-164-346-11	CERAMIC CHIP	1μF		16V	 C6029	1-136-311-11	MYLAR (KV-38DRC2C ONLY)	0.47μF	20%	125V
C259	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V	 C6029	1-136-311-11	MYLAR (KV-38DRC2C ONLY)	0.47μF	20%	300V
C260	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C6030	1-126-935-11	ELECT	470μF	20%	16V
C261	1-126-933-11	ELECT	100μF	20%	16V	C6033	1-126-941-11	ELECT	470μF	20%	25V
C262	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C6045	1-126-926-11	ELECT	1000μF	20%	10V
C701	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V	C6048	1-126-767-11	ELECT	1000μF	20%	16V
C702	1-126-947-11	ELECT	47μF	20%	16V	C6057	1-126-916-11	ELECT	1000μF	20%	6.3V
C703	1-126-947-11	ELECT	47μF	20%	16V	C6059	1-126-971-11	ELECT	470μF	20%	50V
C705	1-164-346-11	CERAMIC CHIP	1μF		16V	C6060	1-135-573-51	ELECT	15000μF	20%	25V
C708	1-164-346-11	CERAMIC CHIP	1μF		16V	C6061	1-126-960-11	ELECT	1μF	20%	50V
C710	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	C6062	1-126-947-11	ELECT	47μF	20%	25V
C711	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V	C6063	1-136-479-11	FILM	0.001μF	2%	50V
C712	1-126-947-11	ELECT	47μF	20%	16V	C6064	1-126-964-11	ELECT	10μF	20%	50V
C713	1-164-690-91	CERAMIC CHIP	0.0022μF	5%	50V	C6065	1-126-933-11	ELECT	100μF	20%	16V
C715	1-126-964-11	ELECT	10μF	20%	50V	C7001	1-126-961-11	ELECT	2.2μF	20%	50V
C717	1-163-031-91	CERAMIC CHIP	0.01μF		50V	C7006	1-126-767-11	ELECT	1000μF	20%	16V
C718	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	C7007	1-136-169-00	FILM	0.22μF	5%	50V
C719	1-163-235-11	CERAMIC CHIP	22pF	5%	50V	C7008	1-126-767-11	ELECT	1000μF	20%	16V
C720	1-126-935-11	ELECT	470μF	20%	16V						
C721	1-163-231-11	CERAMIC CHIP	15pF	5%	50V						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C7009	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C7084	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C7010	1-126-963-11	ELECT	4.7μF	20%	50V	C7088	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C7011	1-126-959-11	ELECT	0.47μF	20%	50V	C7089	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C7012	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C7090	1-126-947-11	ELECT	47μF	20%	25V
C7013	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V	C7094	1-126-960-11	ELECT	1μF	20%	50V
C7014	1-163-989-11	CERAMIC CHIP	0.033μF	10%	25V	C7095	1-126-960-11	ELECT	1μF	20%	50V
C7015	1-163-989-11	CERAMIC CHIP	0.033μF	10%	25V	C7096	1-126-960-11	ELECT	1μF	20%	50V
C7016	1-126-959-11	ELECT	0.47μF	20%	50V	C7099	1-126-964-11	ELECT	10μF	20%	50V
C7017	1-126-963-11	ELECT	4.7μF	20%	50V	C7101	1-126-935-11	ELECT	470μF	20%	16V
C7018	1-136-169-00	FILM	0.22μF	5%	50V	C7102	1-126-934-11	ELECT	220μF	20%	16V
C7019	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C7103	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C7020	1-163-989-11	CERAMIC CHIP	0.033μF	10%	25V	C7105	1-126-935-11	ELECT	470μF	20%	16V
C7021	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V	C7108	1-126-961-11	ELECT	2.2μF	20%	50V
C7022	1-163-989-11	CERAMIC CHIP	0.033μF	10%	25V	C7109	1-126-961-11	ELECT	2.2μF	20%	50V
C7023	1-126-935-11	ELECT	470μF	20%	16V	C7110	1-126-941-11	ELECT	470μF	20%	25V
C7024	1-126-935-11	ELECT	470μF	20%	16V	C7151	1-126-967-11	ELECT	47μF	20%	50V
C7025	1-126-960-11	ELECT	1μF	20%	50V	C7152	1-126-967-11	ELECT	47μF	20%	50V
C7026	1-126-960-11	ELECT	1μF	20%	50V						
C7028	1-136-165-00	FILM	0.1μF	5%	50V			CONNECTOR			
C7029	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V	* CN001	1-573-296-21	CONNECTOR, BOARD TO BOARD 10P			
C7030	1-126-953-11	ELECT	2200μF	20%	35V	* CN003	1-785-304-11	CONNECTOR, DIN (RECEPTACLE) 64P			
C7032	1-163-038-91	CERAMIC CHIP	0.1μF		25V	* CN201	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C7033	1-126-934-11	ELECT	220μF	20%	16V	* CN202	1-764-333-11	PLUG,CONNECTOR 10P			
C7034	1-136-165-00	FILM	0.1μF	5%	50V	* CN203	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
C7035	1-136-165-00	FILM	0.1μF	5%	50V	* CN204	1-564-506-11	PLUG,CONNECTOR 3P			
C7036	1-126-942-61	ELECT	1000μF	20%	25V	* CN701	1-564-515-11	PLUG,CONNECTOR 12P			
C7037	1-136-160-00	FILM	0.039μF	5%	50V	* CN702	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
C7038	1-126-942-61	ELECT	1000μF	20%	25V	* CN703	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
C7039	1-136-160-00	FILM	0.039μF	5%	50V	* CN706	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
C7056	1-126-953-11	ELECT	2200μF	20%	35V	* CN707	1-564-507-11	PLUG,CONNECTOR 4P			
C7057	1-126-953-11	ELECT	2200μF	20%	35V	* CN6001	1-766-241-11	PIN,CONNECTOR (PC BOARD) 3P			
C7058	1-126-960-11	ELECT	1μF	20%	50V	* CN6002	1-766-241-11	PIN,CONNECTOR (PC BOARD) 3P			
C7059	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	* CN6003	1-508-786-00	PIN,CONNECTOR (5MM PITCH) 2P			
C7061	1-126-964-11	ELECT	10μF	20%	50V	* CN6005	1-766-176-11	PIN,CONNECTOR (PC BOARD) 6P			
C7062	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V	* CN6006	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
C7063	1-136-165-00	FILM	0.1μF	5%	50V	CN6007	1-580-843-11	PIN,CONNECTOR (POWER)			
C7064	1-126-953-11	ELECT	2200μF	20%	35V	* CN6013	1-766-240-11	PIN,CONNECTOR (PC BOARD) 2P			
C7066	1-136-165-00	FILM	0.1μF	5%	50V	* CN7001	1-573-296-21	CONNECTOR, BOARD TO BOARD 10P			
C7067	1-136-165-00	FILM	0.1μF	5%	50V	* CN7003	1-564-511-11	PLUG,CONNECTOR 8P			
C7069	1-136-165-00	FILM	0.1μF	5%	50V	* CN7008	1-564-511-61	PLUG,CONNECTOR 8P			
C7070	1-136-165-00	FILM	0.1μF	5%	50V			DIODE			
C7071	1-137-437-11	MYLAR	0.0056μF	5%	50V	D004	8-719-977-28	DIODE UDZSTE-1710B			
C7072	1-137-437-11	MYLAR	0.0056μF	5%	50V	D008	8-719-977-28	DIODE UDZSTE-1710B			
C7074	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	D203	8-719-025-31	DIODE 02CZ5.6-TE85L			
C7075	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	D211	8-719-991-33	DIODE 1SS133T-77			
C7076	1-126-968-11	ELECT	100μF	20%	50V	D212	8-719-404-50	DIODE MA111-TX			
C7077	1-126-960-11	ELECT	1μF	20%	50V	D214	8-719-404-50	DIODE MA111-TX			
C7078	1-126-960-11	ELECT	1μF	20%	50V	D215	8-719-404-50	DIODE MA111-TX			

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

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




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D701	8-719-914-43	DIODE DAN202K-T-146		FUSE			
D703	8-719-914-43	DIODE DAN202K-T-146		⚠ F6001	1-532-506-51	FUSE 6.3A/250V	
D705	8-719-404-50	DIODE MA111-TX		FERRITE BEAD			
D706	8-719-914-43	DIODE DAN202K-T-146		FB6001	1-412-911-11	FERRITE	0μH
D707	8-719-914-43	DIODE DAN202K-T-146		FB6003	1-412-911-11	FERRITE	0μH
D708	8-719-404-50	DIODE MA111-TX		FB6004	1-412-911-11	FERRITE	0μH
D709	8-719-991-33	DIODE 1SS133T-77		FB6005	1-412-911-11	FERRITE	0μH
D710	8-719-914-43	DIODE DAN202K-T-146		FB6007	1-412-911-11	FERRITE	0μH
D711	8-719-914-44	DIODE DAP202K-T-146		⚠ FB6012	1-412-911-11	FERRITE	0μH
D715	8-719-914-43	DIODE DAN202K-T-146		⚠ FB6013	1-412-911-11	FERRITE	0μH
D716	8-719-914-44	DIODE DAP202K-T-146				(KV-38DRC2 ONLY)	
D719	8-719-404-50	DIODE MA111-TX		FB6014	1-412-911-11	FERRITE	0μH
D720	8-719-404-50	DIODE MA111-TX				(KV-38DRC2C ONLY)	
D721	8-719-404-50	DIODE MA111-TX		FUSE HOLDER			
D722	8-719-404-50	DIODE MA111-TX		FH6001	1-533-223-11	HOLDER, FUSE	
D723	8-719-914-43	DIODE DAN202K-T-146		FH6002	1-533-223-11	HOLDER, FUSE	
D724	8-719-404-50	DIODE MA111-TX		IC			
D725	8-719-404-50	DIODE MA111-TX		IC201	8-752-100-25	IC CXA2150AQ	
D726	8-719-404-50	DIODE MA111-TX		IC701	6-800-051-01	IC M306V2ME-153FP	
D727	8-719-404-50	DIODE MA111-TX		IC702	8-759-349-11	IC PST9145NL	
D728	8-719-404-50	DIODE MA111-TX		IC707	8-759-672-78	IC M24C08-BN6(A)	
D6001	8-719-991-33	DIODE 1SS133T-77		⚠ IC6001	8-759-670-30	IC MCZ3001D	
D6002	8-719-991-33	DIODE 1SS133T-77		IC6002	8-759-140-85	IC UPC1093J-T	
D6003	8-719-979-64	DIODE UF4005PKG23		IC6003	8-759-520-49	IC PQ30RV21	
D6005	8-719-063-73	DIODE D1NL20U-TR		IC6007	8-759-513-71	IC PQ05RF21	
D6009	8-719-063-73	DIODE D1NL20U-TR		IC6010	8-759-653-07	IC PQ09RD21	
D6011	8-719-031-79	DIODE D5SC4M		IC6011	8-759-450-47	IC BA05T	
D6012	8-719-031-79	DIODE D5SC4M		IC7001	8-759-678-92	IC BH3868AFS-E2	
D6013	8-719-031-79	DIODE D5SC4M		⚠ IC7002	8-759-246-70	IC TA8216H	
D6014	8-719-921-63	DIODE MTZJ-T-77-7.5B		⚠ IC7005	8-759-246-70	IC TA8216H	
D6017	8-719-921-37	DIODE MTZJ-T-77-4.7		IC7006	8-759-331-71	IC NJM4558E(TE2)	
D6018	8-719-991-33	DIODE 1SS133T-77		IC7007	8-759-331-71	IC NJM4558E(TE2)	
D6020	8-719-511-40	DIODE S1VB20		COIL			
D6025	8-719-404-50	DIODE MA111-TX		L001	1-469-320-21	INDUCTOR	100μH
D7002	8-719-991-33	DIODE 1SS133T-77		L002	1-469-320-21	INDUCTOR	100μH
D7003	8-719-914-43	DIODE DAN202K-T-146		L003	1-469-317-21	INDUCTOR	10μH
D7004	8-719-914-44	DIODE DAP202K-T-146		L004	1-469-320-21	INDUCTOR	100μH
D7005	8-719-071-74	DIODE HZU11B1TRF		L005	1-469-320-21	INDUCTOR	100μH
D7009	8-719-404-50	DIODE MA111-TX		L006	1-469-317-21	INDUCTOR	10μH
D7010	8-719-404-50	DIODE MA111-TX		L201	1-469-317-21	INDUCTOR	10μH
D7011	8-719-404-50	DIODE MA111-TX		L202	1-469-317-21	INDUCTOR	10μH
D7012	8-719-404-50	DIODE MA111-TX		L203	1-469-317-21	INDUCTOR	10μH
D7013	8-719-041-97	DIODE MA113-(TX)		L701	1-412-911-11	FERRITE	0μH
D7014	8-719-924-13	DIODE MTZJ-T-77-22B		L702	1-412-911-11	FERRITE	0μH
D7015	8-719-924-13	DIODE MTZJ-T-77-22B		L703	1-414-179-21	INDUCTOR	2.2μH
D7016	8-719-041-97	DIODE MA113-(TX)		L6001	1-406-665-11	INDUCTOR	100μH
D7017	8-719-041-97	DIODE MA113-(TX)		L6002	1-406-659-11	INDUCTOR	10μH
D7103	8-719-404-50	DIODE MA111-TX					




REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
L6003	1-406-659-11	INDUCTOR	10μH	Q6002	8-729-027-23	TRANSISTOR DTA114EKA-T146	
L6004	1-412-525-31	INDUCTOR	10μH	Q6007	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
L6006	1-412-519-11	INDUCTOR	3.3μH	Q6008	8-729-052-29	TRANSISTOR 2SK2876-01MR-F122	
L6007	1-412-519-11	INDUCTOR	3.3μH	Q6009	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
L6008	1-469-317-21	INDUCTOR	10μH	Q6010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
L7002	1-414-187-11	INDUCTOR	47μH				
<u>PHOTO COUPLER</u>				Q7001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
PH6001	8-749-924-35	PHOTO COUPLER ON3171-R		Q7004	8-729-900-53	TRANSISTOR DTC114EKA-T146	
<u>TRANSISTOR</u>				Q7005	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7009	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7010	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q004	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX					
Q005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7013	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q012	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		Q7014	8-729-900-53	TRANSISTOR DTC114EKA-T146	
				Q7015	8-729-900-53	TRANSISTOR DTC114EKA-T146	
				Q7016	8-729-900-53	TRANSISTOR DTC114EKA-T146	
				<u>RESISTOR</u>			
Q015	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R004	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q027	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R005	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q203	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R006	1-216-295-91	SHORT	
Q204	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R007	1-216-017-91	RES-CHIP	47 5% 1/10W
Q207	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R008	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q208	8-729-122-63	TRANSISTOR 2SA1226-T1E4		R009	1-216-017-91	RES-CHIP	47 5% 1/10W
Q209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R010	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q211	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R011	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q212	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R012	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q214	1-801-806-11	TRANSISTOR DTC144EKA-T146		R013	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q216	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R014	1-216-085-91	RES-CHIP	33K 5% 1/10W
Q217	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R015	1-208-776-11	METAL CHIP	560 0.50% 1/10W
Q701	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R016	1-216-025-11	RES-CHIP	100 5% 1/10W
Q702	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R017	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146		R037	1-216-295-91	SHORT	
Q704	1-801-806-11	TRANSISTOR DTC144EKA-T146		R039	1-216-025-11	RES-CHIP	100 5% 1/10W
Q705	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R042	1-216-025-11	RES-CHIP	100 5% 1/10W
Q706	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R049	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q707	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R052	1-216-085-91	RES-CHIP	33K 5% 1/10W
Q709	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R055	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q710	8-729-027-23	TRANSISTOR DTA114EKA-T146		R061	1-208-776-11	METAL CHIP	560 0.50% 1/10W
Q712	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R065	1-216-025-11	RES-CHIP	100 5% 1/10W
Q717	1-801-806-11	TRANSISTOR DTC144EKA-T146		R082	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q721	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R083	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q723	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R160	1-216-113-00	RES-CHIP	470K 5% 1/10W
Q724	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R163	1-216-642-11	METAL CHIP	430 0.50% 1/10W
Q726	8-729-901-47	TRANSISTOR DTA143EKA-T146		R164	1-216-041-00	RES-CHIP	470 5% 1/10W
Q727	8-729-901-47	TRANSISTOR DTA143EKA-T146		R165	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q728	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R166	1-216-097-11	RES-CHIP	100K 5% 1/10W
Q729	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX		R167	1-216-121-11	RES-CHIP	1M 5% 1/10W
Q730	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R168	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q731	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX		R169	1-216-073-91	RES-CHIP	10K 5% 1/10W
Q6001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX					







REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R170	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R256	1-216-041-00	RES-CHIP	470	5%	1/10W
R171	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R257	1-216-017-91	RES-CHIP	47	5%	1/10W
R172	1-216-097-11	RES-CHIP	100K	5%	1/10W	R258	1-216-017-91	RES-CHIP	47	5%	1/10W
R173	1-216-121-11	RES-CHIP	1M	5%	1/10W	R259	1-216-017-91	RES-CHIP	47	5%	1/10W
R174	1-216-073-91	RES-CHIP	10K	5%	1/10W	R260	1-216-037-00	RES-CHIP	330	5%	1/10W
R175	1-216-073-91	RES-CHIP	10K	5%	1/10W	R261	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R176	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R262	1-216-025-11	RES-CHIP	100	5%	1/10W
R204	1-216-073-91	RES-CHIP	10K	5%	1/10W	R263	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R205	1-216-025-11	RES-CHIP	100	5%	1/10W	R264	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R206	1-208-752-11	METAL CHIP	56	0.50%	1/10W	R265	1-216-073-91	RES-CHIP	10K	5%	1/10W
R207	1-249-413-11	CARBON	470	5%	1/4W	R266	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R208	1-216-295-91	SHORT				R267	1-216-073-91	RES-CHIP	10K	5%	1/10W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W	R274	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-208-752-11	METAL CHIP	56	0.50%	1/10W	R275	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R215	1-249-413-11	CARBON	470	5%	1/4W	R276	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W	R277	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R220	1-208-752-11	METAL CHIP	56	0.50%	1/10W	R278	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R221	1-249-413-11	CARBON	470	5%	1/4W	R280	1-216-295-91	SHORT			
R223	1-216-025-11	RES-CHIP	100	5%	1/10W	R281	1-216-295-91	SHORT			
R224	1-216-025-11	RES-CHIP	100	5%	1/10W	R282	1-216-295-91	SHORT			
R226	1-216-073-91	RES-CHIP	10K	5%	1/10W	R283	1-216-295-91	SHORT			
R228	1-216-025-11	RES-CHIP	100	5%	1/10W	R284	1-216-295-91	SHORT			
R229	1-216-025-11	RES-CHIP	100	5%	1/10W	R701	1-216-089-91	RES-CHIP	47K	5%	1/10W
R230	1-216-025-11	RES-CHIP	100	5%	1/10W	R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
R231	1-216-025-11	RES-CHIP	100	5%	1/10W	R703	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R232	1-216-025-11	RES-CHIP	100	5%	1/10W	R704	1-216-073-91	RES-CHIP	10K	5%	1/10W
R233	1-216-025-11	RES-CHIP	100	5%	1/10W	R705	1-216-101-00	RES-CHIP	150K	5%	1/10W
R234	1-216-025-11	RES-CHIP	100	5%	1/10W	R706	1-216-073-91	RES-CHIP	10K	5%	1/10W
R235	1-216-025-11	RES-CHIP	100	5%	1/10W	R707	1-216-097-11	RES-CHIP	100K	5%	1/10W
R236	1-216-025-11	RES-CHIP	100	5%	1/10W	R708	1-216-025-11	RES-CHIP	100	5%	1/10W
R237	1-216-025-11	RES-CHIP	100	5%	1/10W	R709	1-216-097-11	RES-CHIP	100K	5%	1/10W
R238	1-216-025-11	RES-CHIP	100	5%	1/10W	R710	1-216-073-91	RES-CHIP	10K	5%	1/10W
R239	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R711	1-216-073-91	RES-CHIP	10K	5%	1/10W
R240	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R712	1-216-049-11	RES-CHIP	1K	5%	1/10W
R241	1-216-133-91	RES-CHIP	3.3M	5%	1/10W	R713	1-216-025-11	RES-CHIP	100	5%	1/10W
R242	1-216-075-00	RES-CHIP	12K	5%	1/10W	R714	1-216-025-11	RES-CHIP	100	5%	1/10W
R243	1-216-073-91	RES-CHIP	10K	5%	1/10W	R719	1-216-049-11	RES-CHIP	1K	5%	1/10W
R244	1-216-025-11	RES-CHIP	100	5%	1/10W	R721	1-216-049-11	RES-CHIP	1K	5%	1/10W
R245	1-216-073-91	RES-CHIP	10K	5%	1/10W	R727	1-216-049-11	RES-CHIP	1K	5%	1/10W
R246	1-216-073-91	RES-CHIP	10K	5%	1/10W	R729	1-216-049-11	RES-CHIP	1K	5%	1/10W
R247	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R731	1-216-073-91	RES-CHIP	10K	5%	1/10W
R248	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R740	1-216-073-91	RES-CHIP	10K	5%	1/10W
R249	1-216-025-11	RES-CHIP	100	5%	1/10W	R741	1-216-073-91	RES-CHIP	10K	5%	1/10W
R250	1-216-097-11	RES-CHIP	100K	5%	1/10W	R742	1-216-041-00	RES-CHIP	470	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R743	1-216-025-11	RES-CHIP	100	5%	1/10W
R252	1-216-025-11	RES-CHIP	100	5%	1/10W	R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R253	1-216-043-91	RES-CHIP	560	5%	1/10W	R748	1-216-081-00	RES-CHIP	22K	5%	1/10W
R255	1-216-025-11	RES-CHIP	100	5%	1/10W	R749	1-216-049-11	RES-CHIP	1K	5%	1/10W

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

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



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R754	1-216-025-11	RES-CHIP	100	5%	1/10W	R819	1-216-037-00	RES-CHIP	330	5%	1/10W
R755	1-216-025-11	RES-CHIP	100	5%	1/10W	R822	1-216-037-00	RES-CHIP	330	5%	1/10W
R756	1-216-025-11	RES-CHIP	100	5%	1/10W	R824	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R825	1-216-025-11	RES-CHIP	100	5%	1/10W
R758	1-216-025-11	RES-CHIP	100	5%	1/10W	R827	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R828	1-216-073-91	RES-CHIP	10K	5%	1/10W
R763	1-216-295-91	SHORT				R829	1-216-073-91	RES-CHIP	10K	5%	1/10W
R764	1-216-049-11	RES-CHIP	1K	5%	1/10W	R830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R767	1-216-049-11	RES-CHIP	1K	5%	1/10W	R834	1-216-041-00	RES-CHIP	470	5%	1/10W
R769	1-216-049-11	RES-CHIP	1K	5%	1/10W	R836	1-216-049-11	RES-CHIP	1K	5%	1/10W
R771	1-216-049-11	RES-CHIP	1K	5%	1/10W	R837	1-216-025-11	RES-CHIP	100	5%	1/10W
R772	1-216-081-00	RES-CHIP	22K	5%	1/10W	R838	1-216-049-11	RES-CHIP	1K	5%	1/10W
R773	1-216-081-00	RES-CHIP	22K	5%	1/10W	R839	1-216-025-11	RES-CHIP	100	5%	1/10W
R774	1-216-081-00	RES-CHIP	22K	5%	1/10W	R841	1-216-033-00	RES-CHIP	220	5%	1/10W
R776	1-216-049-11	RES-CHIP	1K	5%	1/10W	R842	1-216-081-00	RES-CHIP	22K	5%	1/10W
R777	1-216-073-91	RES-CHIP	10K	5%	1/10W	R843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R780	1-216-073-91	RES-CHIP	10K	5%	1/10W	R847	1-216-025-11	RES-CHIP	100	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W	R848	1-216-025-11	RES-CHIP	100	5%	1/10W
R784	1-216-025-11	RES-CHIP	100	5%	1/10W	R849	1-216-295-91	SHORT			
R785	1-216-049-11	RES-CHIP	1K	5%	1/10W	R850	1-216-295-91	SHORT			
R787	1-216-121-11	RES-CHIP	1M	5%	1/10W	R851	1-216-295-91	SHORT			
R788	1-216-295-91	SHORT				R852	1-216-049-11	RES-CHIP	1K	5%	1/10W
R789	1-216-041-00	RES-CHIP	470	5%	1/10W	R853	1-216-295-91	SHORT			
R791	1-216-025-11	RES-CHIP	100	5%	1/10W	R854	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R792	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R856	1-216-049-11	RES-CHIP	1K	5%	1/10W
R793	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R857	1-216-025-11	RES-CHIP	100	5%	1/10W
R794	1-216-017-91	RES-CHIP	47	5%	1/10W	R858	1-216-295-91	SHORT			
R795	1-216-025-11	RES-CHIP	100	5%	1/10W	R859	1-216-295-91	SHORT			
R796	1-216-295-91	SHORT				R860	1-216-689-11	RES-CHIP	39K	5%	1/10W
R797	1-216-017-91	RES-CHIP	47	5%	1/10W	R861	1-216-689-11	RES-CHIP	39K	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R862	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R799	1-216-049-11	RES-CHIP	1K	5%	1/10W	R863	1-216-049-11	RES-CHIP	1K	5%	1/10W
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R864	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R801	1-216-025-11	RES-CHIP	100	5%	1/10W	R865	1-216-295-91	SHORT			
R802	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R866	1-216-295-91	SHORT			
R803	1-216-017-91	RES-CHIP	47	5%	1/10W	R867	1-216-081-00	RES-CHIP	22K	5%	1/10W
R804	1-216-037-00	RES-CHIP	330	5%	1/10W	R6001	1-216-073-91	RES-CHIP	10K	5%	1/10W
R805	1-216-037-00	RES-CHIP	330	5%	1/10W	 R6002	1-249-393-11	CARBON	10	5%	1/4W
R806	1-216-037-00	RES-CHIP	330	5%	1/10W	 R6003	1-219-776-11	CARBON	2.2M	10%	1/2W
R807	1-216-017-91	RES-CHIP	47	5%	1/10W			(KV-38DRC2 ONLY)			
R808	1-216-049-11	RES-CHIP	1K	5%	1/10W	 R6003	1-247-289-00	CARBON	8.2M	5%	1W
R812	1-216-049-11	RES-CHIP	1K	5%	1/10W			(KV-38DRC2C ONLY)			
R813	1-216-049-11	RES-CHIP	1K	5%	1/10W	R6004	1-216-121-11	RES-CHIP	1M	5%	1/10W
R814	1-216-025-11	RES-CHIP	100	5%	1/10W	 R6006	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R815	1-216-025-11	RES-CHIP	100	5%	1/10W	R6007	1-215-481-00	METAL	330K	1%	1/4W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W	R6008	1-215-481-00	METAL	330K	1%	1/4W
R817	1-216-025-11	RES-CHIP	100	5%	1/10W	R6009	1-215-481-00	METAL	330K	1%	1/4W
R818	1-216-025-11	RES-CHIP	100	5%	1/10W	R6010	1-249-393-11	CARBON	10	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6011	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R7007	1-216-017-91	RES-CHIP	47	5%	1/10W
R6012	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7008	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6015	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7009	1-216-295-91	SHORT			
R6019	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7010	1-216-295-91	SHORT			
R6020	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7011	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R6021	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R7012	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R6022	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W	R7013	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6025	1-249-417-11	CARBON	1K	5%	1/4W	R7014	1-249-429-11	CARBON	10K	5%	1/4W
R6029	1-216-105-91	RES-CHIP	220K	5%	1/10W	R7015	1-249-429-11	CARBON	10K	5%	1/4W
R6038	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R7016	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6039	1-208-812-11	METAL CHIP	18K	0.50%	1/10W	R7017	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6040	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R7018	1-216-073-91	RES-CHIP	10K	5%	1/10W
⚠ R6041	1-240-241-11	CEMENTED (KV-38DRC ONLY)	0.47	5%	20W	R7019	1-216-073-91	RES-CHIP	10K	5%	1/10W
⚠ R6041	1-205-943-11	CEMENTED (KV-38DRC2 ONLY)	1	5%	20W	R7021	1-216-049-11	RES-CHIP	1K	5%	1/10W
⚠ R6042	1-240-241-11	CEMENTED (KV-38DRC ONLY)	0.47	5%	20W	R7022	1-216-073-91	RES-CHIP	10K	5%	1/10W
⚠ R6042	1-205-943-11	CEMENTED (KV-38DRC2 ONLY)	1	5%	20W	R7023	1-249-385-11	CARBON	2.2	5%	1/4W
R6043	1-211-964-11	METAL CHIP	33	0.50%	1/10W	R7024	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6044	1-249-393-11	CARBON	10	5%	1/4W	R7025	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6046	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7026	1-249-385-11	CARBON	2.2	5%	1/4W
R6047	1-216-041-00	RES-CHIP	470	5%	1/10W	R7045	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6049	1-216-363-00	METAL OXIDE	0.33	5%	2W	R7046	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6050	1-216-363-00	METAL OXIDE	0.33	5%	2W	R7047	1-216-041-00	RES-CHIP	470	5%	1/10W
R6051	1-249-393-11	CARBON	10	5%	1/4W	R7048	1-216-041-00	RES-CHIP	470	5%	1/10W
R6052	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7051	1-216-295-91	SHORT			
R6053	1-215-907-11	METAL OXIDE	22	5%	3W	R7052	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6055	1-216-033-00	RES-CHIP	220	5%	1/10W	R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6056	1-208-810-11	METAL CHIP	15K	0.50%	1/10W	R7054	1-216-295-91	SHORT			
R6058	1-208-758-11	METAL CHIP	100	0.50%	1/10W	R7055	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6059	1-249-417-11	CARBON	1K	5%	1/4W	R7056	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6060	1-202-962-11	CEMENTED (KV-38DRC2C ONLY)	3.3	5%	10W	R7058	1-249-429-11	CARBON	10K	5%	1/4W
R6061	1-202-962-11	CEMENTED (KV-38DRC2C ONLY)	3.3	5%	10W	R7059	1-249-385-11	CARBON	2.2	5%	1/4W
R6062	1-216-295-91	SHORT				R7060	1-249-385-11	CARBON	2.2	5%	1/4W
R6063	1-216-073-91	RES-CHIP	10K	5%	1/10W	R7061	1-216-295-91	SHORT			
R6064	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R7063	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6065	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7064	1-216-049-11	RES-CHIP	1K	5%	1/10W
⚠ R6066	1-216-343-00	METAL OXIDE	0.33	5%	1W	R7065	1-216-041-00	RES-CHIP	470	5%	1/10W
R6067	1-216-049-11	RES-CHIP	1K	5%	1/10W	R7067	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6068	1-249-433-11	CARBON	22K	5%	1/4W	R7068	1-216-041-00	RES-CHIP	470	5%	1/10W
R7002	1-216-097-11	RES-CHIP	100K	5%	1/10W	R7070	1-216-689-11	RES-CHIP	39K	5%	1/10W
R7003	1-216-689-11	RES-CHIP	39K	5%	1/10W	R7071	1-216-121-11	RES-CHIP	1M	5%	1/10W
R7004	1-216-689-11	RES-CHIP	39K	5%	1/10W	R7083	1-249-429-11	CARBON	10K	5%	1/4W
R7005	1-216-121-11	RES-CHIP	1M	5%	1/10W	R7086	1-216-295-91	SHORT			
R7006	1-216-089-91	RES-CHIP	47K	5%	1/10W	R7088	1-216-295-91	SHORT			
						R7090	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R7091	1-216-081-00	RES-CHIP	22K	5%	1/10W
						R7092	1-216-025-11	RES-CHIP	100	5%	1/10W
						R7093	1-216-025-11	RES-CHIP	100	5%	1/10W
						R7094	1-216-081-00	RES-CHIP	22K	5%	1/10W



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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7095	1-216-089-91	RES-CHIP	47K	5%	1/10W	C9006	1-163-217-11	CERAMIC CHIP	1pF	0.25pF	50V
R7096	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9007	1-163-217-11	CERAMIC CHIP	1pF	0.25pF	50V
R7097	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C9008	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V
R7098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9009	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
R7099	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C9010	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
R7100	1-216-081-00	RES-CHIP	22K	5%	1/10W	C9011	1-161-830-00	CERAMIC	0.0047μF		500V
R7101	1-216-081-00	RES-CHIP	22K	5%	1/10W	C9012	1-161-830-00	CERAMIC	0.0047μF		500V
R7103	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9013	1-163-035-00	CERAMIC CHIP	0.047μF		50V
R7104	1-216-295-91	SHORT				C9014	1-161-830-00	CERAMIC	0.0047μF		500V
RELAY						C9015	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V
RY6001	1-755-389-11	RELAY (AC POWER)				C9018	1-107-961-91	ELECT	10μF	20%	250V
TRANSFORMER						C9019	1-163-035-00	CERAMIC CHIP	0.047μF		50V
T6001	1-433-404-11	TRANSFORMER, LINE FILTER				C9020	1-107-961-91	ELECT	10μF	20%	250V
T6002	1-435-675-11	TRANSFORMER, STANDBY (KV-38DRC2 ONLY)				C9021	1-107-961-91	ELECT	10μF	20%	250V
T6002	1-435-676-11	TRANSFORMER, STANDBY (KV-38DRC2C ONLY)				C9022	1-101-004-00	CERAMIC	0.01μF		50V
T6003	1-435-577-11	TRANSFORMER, CONVERTER (PIT)				C9023	1-101-004-00	CERAMIC	0.01μF		50V
THERMISTOR						C9024	1-163-035-00	CERAMIC CHIP	0.047μF		50V
TH6002	1-803-970-11	THERMISTOR, POSITIVE (KV-38DRC2 ONLY)				C9025	1-104-653-11	ELECT	220μF	20%	16V
TH6002	1-803-540-11	THERMISTOR (KV-38DRC2C ONLY)				C9026	1-163-035-00	CERAMIC CHIP	0.047μF		50V
TUNER						C9027	1-101-004-00	CERAMIC	0.01μF		50V
TU001	8-598-501-30	TUNER, FSS BTF-FA402				C9028	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
TU002	8-598-542-20	TUNER, FSS BTF-WA412				C9029	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
VARISTOR						C9030	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
VD6001	1-801-074-11	VARISTOR ERZV10D271 (KV-38DRC2 ONLY)				C9031	1-162-116-00	CERAMIC	680pF	10%	2KV
VD6001	1-803-587-11	VARISTOR ENE471D-14A (KV-38DRC2C ONLY)				C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
CRYSTAL						C9033	1-107-662-11	ELECT	22μF	20%	250V
X201	1-760-895-21	VIBRATOR, CERAMIC				C9035	1-126-933-11	ELECT	100μF	20%	16V
X702	1-781-931-21	VIBRATOR, CRYSTAL				C9036	1-126-964-11	ELECT	10μF	20%	50V
CONNECTOR						C9037	1-126-961-11	ELECT	2.2μF	20%	50V
DIODE						C9038	1-126-963-11	ELECT	4.7μF	20%	50V
PC BOARD						C9042	1-126-940-11	ELECT	330μF	20%	25V
A-1332-075-A		C MOUNTED PC BOARD				C9046	1-126-933-11	ELECT	100μF	20%	16V
7-682-647-09		SCREW TPS 3X6				C9047	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
CAPACITOR						DIODE					
C9001	1-126-940-11	ELECT	330μF	20%	25V	D9001	8-719-991-33	DIODE 1SS133T-77			
C9002	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V	D9002	8-719-400-75	DIODE MA3091-TX			
C9003	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V	D9003	8-719-991-33	DIODE 1SS133T-77			
C9004	1-162-114-00	CERAMIC	0.0047μF		2KV	D9005	8-719-404-50	DIODE MA111-TX			
C9005	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V	D9006	8-719-051-85	DIODE HSS83TD			
CONNECTOR						D9007	8-719-051-85	DIODE HSS83TD			
DIODE						D9008	8-719-051-85	DIODE HSS83TD			




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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
D9009	8-719-908-03	DIODE GP08DPKG23				R9019	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
D9010	8-719-110-17	DIODE MTZJ-T-77-10				R9026	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
D9013	8-719-991-33	DIODE 1SS133T-77				R9031	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
D9014	8-719-991-33	DIODE 1SS133T-77				R9033	1-215-447-00	METAL	12K	1%	1/4W
D9015	8-719-991-33	DIODE 1SS133T-77				R9034	1-215-439-00	METAL	5.6K	1%	1/4W
D9016	8-719-991-33	DIODE 1SS133T-77				R9035	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
D9017	8-719-991-33	DIODE 1SS133T-77				R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
	IC					R9037	1-240-233-71	METAL OXIDE	100	5%	3W
IC9001	8-759-360-83	IC TDA6111Q/N4				R9038	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
IC9002	8-759-360-83	IC TDA6111Q/N4				R9039	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
IC9003	8-759-360-83	IC TDA6111Q/N4				R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
	JACK					R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
 J9001	1-451-470-21	SOCKET, CRT				R9043	1-240-233-71	METAL OXIDE	100	5%	3W
	COIL					R9044	1-240-233-71	METAL OXIDE	100	5%	3W
L9002	1-408-591-11	INDUCTOR	1μH			R9047	1-202-557-00	SOLID	220	20%	1/2W
L9003	1-408-591-11	INDUCTOR	1μH			R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
L9004	1-408-591-11	INDUCTOR	1μH			R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
L9005	1-406-666-21	INDUCTOR	150μH			R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
L9006	1-412-525-31	INDUCTOR	10μH			R9051	1-202-557-00	SOLID	220	20%	1/2W
	TRANSISTOR					R9052	1-202-557-00	SOLID	220	20%	1/2W
Q9001	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
Q9002	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA				R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
Q9003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R9055	1-260-126-81	CARBON	180K	5%	1/2W
Q9004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R9056	1-202-549-00	SOLID	100	20%	1/2W
Q9005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				R9057	1-202-847-00	SOLID	560K	20%	1/2W
Q9008	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA				R9059	1-202-818-00	SOLID	1K	20%	1/2W
Q9009	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R9061	1-202-549-00	SOLID	100	20%	1/2W
Q9010	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R9062	1-260-123-11	CARBON	100K	5%	1/2W
Q9011	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				R9063	1-260-123-11	CARBON	100K	5%	1/2W
Q9012	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA				R9064	1-260-126-81	CARBON	180K	5%	1/2W
Q9014	8-729-823-81	TRANSISTOR 2SC4632LS-CB7				R9065	1-249-425-11	CARBON	4.7K	5%	1/4W
	RESISTOR					R9067	1-219-769-11	CARBON	3.3M	5%	1/2W
R9001	1-216-077-91	RES-CHIP	15K	5%	1/10W	R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W	R9070	1-249-411-11	CARBON	330	5%	1/4W
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W	R9071	1-249-411-11	CARBON	330	5%	1/4W
R9006	1-249-429-11	CARBON	10K	5%	1/4W	R9072	1-249-411-11	CARBON	330	5%	1/4W
R9007	1-208-789-11	METAL CHIP	2K	0.50%	1/10W	R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W	R9076	1-219-769-11	CARBON	3.3M	5%	1/2W
R9009	1-249-429-11	CARBON	10K	5%	1/4W	R9077	1-249-417-11	CARBON	1K	5%	1/4W
R9010	1-249-429-11	CARBON	10K	5%	1/4W	R9078	1-249-427-11	CARBON	6.8K	5%	1/4W
R9012	1-249-417-11	CARBON	1K	5%	1/4W	R9079	1-249-426-11	CARBON	5.6K	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9081	1-247-843-11	CARBON	3.3K	5%	1/4W
R9014	1-249-409-11	CARBON	220	5%	1/4W	R9083	1-249-436-11	CARBON	39K	5%	1/4W
R9015	1-249-409-11	CARBON	220	5%	1/4W	R9084	1-260-126-81	CARBON	180K	5%	1/2W
R9016	1-249-409-11	CARBON	220	5%	1/4W	R9085	1-260-126-81	CARBON	180K	5%	1/2W
R9018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R9089	1-215-445-00	METAL	10K	1%	1/4W
						R9091	1-215-429-00	METAL	2.2K	1%	1/4W



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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
VARIABLE RESISTOR							
RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M	C5032	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
RV9002	1-241-788-11	RES, ADJ, CARBON	100K	C5033	1-136-165-00	FILM	0.1μF 5% 50V
D				C5034	1-162-114-00	CERAMIC	0.0047μF 2KV
				C5035	1-126-933-11	ELECT	100μF 20% 16V
				C5036	1-126-941-11	ELECT	470μF 20% 25V
				C5037	1-107-670-11	ELECT	10μF 20% 400V
				C5038	1-126-947-11	ELECT	47μF 20% 16V
*	A-1346-948-A	D COMPLETE PC BOARD		C5040	1-126-935-11	ELECT	470μF 20% 16V
		(KV-38DRC2 ONLY)		C5041	1-126-935-11	ELECT	470μF 20% 16V
*	A-1346-956-A	D COMPLETE PC BOARD		C5043	1-126-767-11	ELECT	1000μF 20% 16V
		(KV-38DRC2C ONLY)		C5044	1-165-319-11	CERAMIC CHIP	0.1μF 50V
The high-voltage leads associated with the FBT on the D Board are not included and must be ordered separately. Order the following leads when requesting this D Board:				C5045	1-165-319-11	CERAMIC CHIP	0.1μF 50V
⚠	1-251-715-22	HV CAP ASSY		C5046	1-163-025-11	CERAMIC CHIP	0.001μF 50V
⚠	1-900-805-19	FOCUS LEAD		C5047	1-163-025-11	CERAMIC CHIP	0.001μF 50V
				C5049	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V
				C5050	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C5051	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5052	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5053	1-107-372-11	MYLAR	0.22μF 10% 200V
				C5056	1-162-318-11	CERAMIC	0.001μF 10% 500V
				C5057	1-162-134-11	CERAMIC	470pF 10% 2KV
				C5058	1-162-116-00	CERAMIC	680pF 10% 2KV
				C5059	1-162-116-00	CERAMIC	680pF 10% 2KV
				C5060	1-137-417-11	MYLAR	0.0047μF 10% 200V
				C5061	1-117-839-11	FILM	9100pF 3% 1.5KV
				C5063	1-117-839-11	FILM	9100pF 3% 1.5KV
				C5064	1-115-520-11	FILM	0.68μF 5% 250V
				C5065	1-107-506-11	FILM	0.68μF 3% 400V
				C5066	1-109-921-11	CERAMIC	0.0015μF 10% 500V
				C5069	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5070	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5071	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5072	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C5073	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V
				C5075	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5076	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5077	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V
				C5079	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
				C5080	1-137-372-11	MYLAR	0.022μF 5% 50V
				C5081	1-137-372-11	MYLAR	0.022μF 5% 50V
				C5102	1-107-888-11	ELECT	47μF 20% 25V
				C5501	1-107-888-11	ELECT	47μF 20% 25V
				C5502	1-126-941-11	ELECT	470μF 20% 25V
				C5503	1-104-665-11	ELECT	100μF 20% 25V
				C5504	1-126-947-11	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
C5001	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V				
C5002	1-106-383-00	MYLAR	0.047μF 10% 200V				
C5004	1-106-383-00	MYLAR	0.047μF 10% 200V				
C5005	1-126-235-11	ELECT	100μF 20% 6.3V				
C5006	1-126-964-11	ELECT	10μF 20% 50V				
C5007	1-126-941-11	ELECT	470μF 20% 25V				
C5008	1-126-940-11	ELECT	330μF 20% 25V				
C5009	1-126-941-11	ELECT	470μF 20% 25V				
C5011	1-107-641-11	ELECT	220μF 20% 160V				
C5012	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V				
C5013	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V				
C5015	1-107-884-11	ELECT	1000μF 20% 16V				
C5016	1-136-171-00	FILM	0.33μF 5% 50V				
C5017	1-115-185-11	CERAMIC CHIP	0.033μF 10% 50V				
C5018	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C5019	1-126-968-11	ELECT	100μF 20% 50V				
C5020	1-126-767-11	ELECT	1000μF 20% 16V				
C5021	1-163-133-00	CERAMIC CHIP	470pF 5% 50V				
C5022	1-137-368-11	MYLAR	0.0047μF 5% 50V				
C5023	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C5024	1-102-038-00	CERAMIC	0.001μF 500V				
C5025	1-130-471-00	MYLAR	0.001μF 5% 50V				
C5026	1-107-655-11	ELECT	47μF 20% 250V				
C5027	1-126-963-11	ELECT	4.7μF 20% 50V				
C5028	1-126-963-11	ELECT	4.7μF 20% 50V				
C5030	1-136-153-00	FILM	0.01μF 5% 50V				
C5031	1-163-011-11	CERAMIC CHIP	0.0015μF 10% 50V				

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5508	1-163-031-91	CERAMIC CHIP	0.01 μ F		50V	C6516	1-163-009-91	CERAMIC CHIP	0.001 μ F	10%	50V
C5509	1-163-263-11	CERAMIC CHIP	330pF	5%	50V	C6517	1-126-963-11	ELECT	4.7 μ F	20%	50V
C5511	1-126-933-11	ELECT	100 μ F	20%	16V	C6518	1-136-479-11	FILM	0.001 μ F	2%	50V
C5514	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C6519	1-126-964-11	ELECT	10 μ F	20%	50V
C5518	1-129-709-61	FILM	0.0039 μ F	5%	630V	C6525	1-164-143-11	CERAMIC	0.001 μ F	10%	1KV
C5519	1-104-760-11	CERAMIC CHIP	0.047 μ F	10%	50V	C6526	1-164-143-11	CERAMIC	0.001 μ F	10%	1KV
C5522	1-163-275-11	CERAMIC CHIP	0.001 μ F	5%	50V	C6532	1-135-998-21	FILM	56000pF	3%	800V
C5531	1-136-165-00	FILM	0.1 μ F	5%	50V	C6544	1-107-855-12	ELECT(BLOCK)	330 μ F		160V
C5533	1-137-366-11	MYLAR	0.0022 μ F	5%	50V	C6545	1-126-943-11	ELECT	2200 μ F	20%	25V
C5542	1-164-182-11	CERAMIC CHIP	0.0033 μ F	10%	50V	C6546	1-128-548-11	ELECT	4700 μ F	20%	25V
C5548	1-137-194-81	FILM	0.47 μ F	5%	50V	C6547	1-113-610-11	ELECT(BLOCK)	220 μ F	20%	250V
C5550	1-129-716-00	FILM	0.015 μ F	5%	200V	C6548	1-128-549-11	ELECT	3300 μ F	20%	35V
C5576	1-104-666-11	ELECT	220 μ F	20%	25V	C6551	1-163-037-11	CERAMIC CHIP	0.022 μ F	10%	50V
C5577	1-104-666-11	ELECT	220 μ F	20%	25V	C6561	1-126-960-11	ELECT	1 μ F	20%	50V
C5587	1-104-760-11	CERAMIC CHIP	0.047 μ F	10%	50V	\triangle C6584	1-136-344-11	MYLAR	0.047 μ F	20%	125V
C5588	1-136-153-00	FILM	0.01 μ F	5%	50V	\triangle C6585	1-119-899-51	CERAMIC	1000pF	10%	250V
C5590	1-163-263-11	CERAMIC CHIP	330pF	5%	50V	C6586	1-113-924-11	CERAMIC	0.0047 μ F	20%	125V
C5592	1-115-339-11	CERAMIC CHIP	0.1 μ F	10%	50V	C6587	1-113-924-11	CERAMIC	0.0047 μ F	20%	125V
C5594	1-136-165-00	FILM	0.1 μ F	5%	50V	C6588	1-113-924-11	CERAMIC	0.0047 μ F	20%	125V
C5596	1-126-960-11	ELECT	1 μ F	20%	50V	C6589	1-113-924-11	CERAMIC	0.0047 μ F	20%	125V
C5598	1-126-947-11	ELECT	47 μ F	20%	16V	C6590	1-131-940-11	ELECT	1200 μ F	20%	250V
C5600	1-126-947-11	ELECT	47 μ F	20%	16V	\triangle C6591	1-119-899-51	CERAMIC	1000pF	10%	250V
C5601	1-136-165-00	FILM	0.1 μ F	5%	50V	C6594	1-164-004-11	CERAMIC CHIP	0.1 μ F	10%	25V
C5602	1-126-947-11	ELECT	47 μ F	20%	16V	C6595	1-104-665-11	ELECT	100 μ F	20%	25V
C5603	1-163-017-00	CERAMIC CHIP	0.0047 μ F	10%	50V	C6596	1-126-960-11	ELECT	1 μ F	20%	50V
C5605	1-136-177-00	FILM	1 μ F	5%	50V	C8002	1-136-169-00	FILM	0.22 μ F	5%	50V
C5607	1-115-185-11	CERAMIC CHIP	0.033 μ F	10%	50V	C8004	1-104-665-11	ELECT	100 μ F	20%	10V
C5609	1-104-665-11	ELECT	100 μ F	20%	25V	C8005	1-126-947-11	ELECT	47 μ F	20%	25V
C5610	1-126-935-11	ELECT	470 μ F	20%	16V	C8006	1-126-960-11	ELECT	1 μ F	20%	50V
C5611	1-163-038-91	CERAMIC CHIP	0.1 μ F		25V	C8007	1-137-150-11	MYLAR	0.01 μ F	5%	50V
C5612	1-126-964-11	ELECT	10 μ F	20%	50V	C8009	1-126-964-11	ELECT	10 μ F	20%	50V
C5613	1-115-185-11	CERAMIC CHIP	0.033 μ F	10%	50V	C8011	1-126-961-11	ELECT	2.2 μ F	20%	50V
C5614	1-126-964-11	ELECT	10 μ F	20%	50V	C8012	1-126-966-11	ELECT	33 μ F	20%	50V
C5616	1-136-165-00	FILM	0.1 μ F	5%	50V	C8013	1-126-964-11	ELECT	10 μ F	20%	50V
C5617	1-126-947-11	ELECT	47 μ F	20%	16V	C8014	1-126-964-11	ELECT	10 μ F	20%	50V
C5618	1-136-171-00	FILM	0.33 μ F	5%	50V	C8015	1-126-966-11	ELECT	33 μ F	20%	50V
C5619	1-163-127-00	CERAMIC CHIP	270pF	5%	50V	C8016	1-130-495-00	MYLAR	0.1 μ F	5%	50V
C5621	1-136-165-00	FILM	0.1 μ F	5%	50V	C8017	1-126-964-11	ELECT	10 μ F	20%	50V
C5623	1-126-933-11	ELECT	100 μ F	20%	16V	C8018	1-126-964-11	ELECT	10 μ F	20%	50V
C5625	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	C8019	1-104-665-11	ELECT	100 μ F	20%	10V
C5628	1-126-933-11	ELECT	100 μ F	20%	16V	C8020	1-136-103-00	FILM	0.1 μ F	5%	200V
C6503	1-131-940-11	ELECT	1200 μ F	20%	250V	C8021	1-137-150-11	MYLAR	0.01 μ F	5%	50V
C6504	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C8022	1-126-933-11	ELECT	100 μ F	20%	16V
C6507	1-126-967-11	ELECT	47 μ F	20%	50V	C8023	1-113-611-11	ELECT(BLOCK)	820 μ F	20%	250V
C6508	1-126-947-11	ELECT	47 μ F	20%	25V	C8024	1-126-967-11	ELECT	47 μ F	20%	50V
C6510	1-130-495-00	MYLAR	0.1 μ F	5%	50V	C8025	1-126-947-11	ELECT	47 μ F	20%	25V
C6511	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	C8027	1-130-495-00	MYLAR	0.1 μ F	5%	50V
						C8028	1-164-161-11	CERAMIC CHIP	0.0022 μ F	10%	50V
						C8030	1-163-809-11	CERAMIC CHIP	0.047 μ F	10%	25V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C8031	1-128-551-11	ELECT	22 μ F	20%	25V	D5007	8-719-109-51	DIODE RD2.0ES-T1B1			
C8032	1-136-813-11	FILM	680pF	2%	50V	D5008	8-719-404-50	DIODE MA111-TX			
C8033	1-126-964-11	ELECT	10 μ F	20%	50V	D5009	8-719-404-50	DIODE MA111-TX			
						D5010	8-719-404-50	DIODE MA111-TX			
C8035	1-125-969-91	CERAMIC	680pF	10%	1KV	D5011	8-719-109-63	DIODE RD3.0ES-T1B2			
C8036	1-125-969-91	CERAMIC	680pF	10%	1KV	D5012	8-719-018-82	DIODE RGP02-20EL-6394			
C8037	1-135-946-21	FILM	47000pF	3%	800V	D5013	8-719-302-43	DIODE RGP10GPKG23			
C8039	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	D5014	8-719-510-37	DIODE D5LC20U			
C8040	1-126-969-11	ELECT	220 μ F	20%	50V	D5015	8-719-302-43	DIODE RGP10GPKG23			
C8041	1-137-194-81	FILM	0.47 μ F	5%	50V	D5016	8-719-920-67	DIODE ERC91-02E			
C8042	1-136-103-00	FILM	0.1 μ F	5%	200V	D5017	8-719-920-67	DIODE ERC91-02E			
C8045	1-130-471-00	MYLAR	0.001 μ F	5%	50V	D5018	8-719-110-41	DIODE MTZJ-T-77-15B			
C8046	1-162-131-11	CERAMIC	220pF	10%	2KV						
C8047	1-107-444-11	CERAMIC	100pF	10%	2KV	D5019	8-719-404-50	DIODE MA111-TX			
						D5021	8-719-404-50	DIODE MA111-TX			
C8048	1-130-495-00	MYLAR	0.1 μ F	5%	50V	D5023	8-719-061-21	DIODE PG124S15			
C8050	1-129-718-61	FILM	0.022 μ F	5%	630V	D5024	8-719-510-02	DIODE D1NS4-TR			
C8051	1-126-964-11	ELECT	10 μ F	20%	50V	D5025	8-719-510-02	DIODE D1NS4-TR			
C8053	1-162-117-00	CERAMIC	100pF	10%	500V						
C8054	1-102-244-00	CERAMIC	220pF	10%	500V	D5026	8-719-404-50	DIODE MA111-TX			
						D5027	8-719-404-50	DIODE MA111-TX			
C8055	1-136-535-61	FILM	0.0018 μ F	5%	630V	D5028	8-719-404-50	DIODE MA111-TX			
C8056	1-163-021-91	CERAMIC CHIP	0.01 μ F	10%	50V	D5029	8-719-404-50	DIODE MA111-TX			
C8058	1-137-194-81	FILM	0.47 μ F	5%	50V	D5031	8-719-977-28	DIODE UdzSTE-1710B			
C8059	1-126-947-11	ELECT	47 μ F	20%	10V	D5032	8-719-404-50	DIODE MA111-TX			
C8060	1-107-635-11	ELECT	4.7 μ F	20%	160V	D5501	8-719-404-50	DIODE MA111-TX			
C8063	1-135-945-21	FILM	10000pF	3%	800V	D5502	8-719-404-50	DIODE MA111-TX			
						D5503	8-719-404-50	DIODE MA111-TX			
						D5505	8-719-800-76	DIODE MA153-TX			
						D5506	8-719-404-50	DIODE MA111-TX			
						D5507	8-719-800-76	DIODE MA153-TX			
						D5513	8-719-991-33	DIODE 1S133T-77			
						D5514	8-719-063-70	DIODE D1NL20U-TA2			
						D5515	8-719-063-70	DIODE D1NL20U-TA2			
						D5522	8-719-923-78	DIODE MTZJ-T-77-12			
						D5523	8-719-923-78	DIODE MTZJ-T-77-12			
						D6501	8-719-404-50	DIODE MA111-TX			
						D6502	8-719-979-64	DIODE μ F4005PKG23			
						D6507	1-216-295-91	SHORT			
						D6508	8-719-982-27	DIODE MTZJ-T-77-33C			
						D6509	8-719-068-00	DIODE ERC04-06SE (KV-38DRC2 ONLY)			
						D6510	8-719-068-00	DIODE ERC04-06SE (KV-38DRC2 ONLY)			
						D6513	8-719-500-71	DIODE D8LC40F			
						\triangle D6514	8-719-060-89	DIODE D4SBS6-F			
						D6515	8-719-060-90	DIODE S2L60F			
						D6516	8-719-060-89	DIODE D4SBS6-F			
						D6517	8-719-060-90	DIODE S2L60F			
						D6522	8-719-404-50	DIODE MA111-TX			
						D6530	8-719-022-99	DIODE D6SB60L			
D5001	8-719-109-85	DIODE MTZJ-T-77-5.1B									
D5002	8-719-908-03	DIODE GP08DPKG23									
D5003	8-719-920-67	DIODE ERC91-02E									
D5004	8-719-158-49	DIODE UDZ-TE-17-12B									
D5005	8-719-404-50	DIODE MA111-TX									
D5006	8-719-109-72	DIODE MTZJ-T-77-3.9B									

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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D6531	8-719-404-50	DIODE MA111-TX		IC5502	8-759-981-61	IC NJM2901M-TE2	
D6532	8-719-948-45	DIODE ERA22-08TP3		IC5504	8-759-803-42	IC LA6500-FA	
D6533	8-719-404-50	DIODE MA111-TX		IC5506	8-759-803-42	IC LA6500-FA	
D6537	8-719-404-50	DIODE MA111-TX		\triangle IC5510	8-759-803-42	IC LA6500-FA	
D8002	8-719-404-50	DIODE MA111-TX		IC5511	8-752-074-64	IC CXA2026AS	
D8003	8-719-404-50	DIODE MA111-TX					
\triangle D8004	8-719-109-85	DIODE MTZJ-T-77-5.1B		IC5512	8-759-929-65	IC NJM79M12FA	
D8005	8-719-404-50	DIODE MA111-TX		IC5513	8-759-595-52	IC CXA8070AP	
D8006	8-719-921-89	DIODE MTZJ-T-77-13C		IC5514	8-759-803-42	IC LA6500-FA	
D8007	8-719-404-50	DIODE MA111-TX		IC5515	8-749-016-08	IC STK390-910	
D8009	8-719-404-50	DIODE MA111-TX		\triangle IC6501	8-759-670-30	IC MCZ3001D	
D8010	8-719-052-90	DIODE D1NL40-TA2		IC6503	8-749-012-13	IC DM-58	
				IC6505	8-749-921-86	IC SE-140N	
\triangle D8013	8-719-063-70	DIODE D1NL20U-TA2		IC8001	8-759-981-61	IC NJM2901M-TE2	
D8014	8-719-302-43	DIODE RGP10GPKG23		\triangle 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					
\triangle D8019	8-719-110-41	DIODE MTZJ-T-77-15B		CHIP CONDUCTOR			
D8020	8-719-404-50	DIODE MA111-TX		JR5006	1-216-295-91	SHORT	
D8021	8-719-404-50	DIODE MA111-TX		JR5007	1-216-295-91	SHORT	
D8022	8-719-404-50	DIODE MA111-TX		JR5010	1-216-295-91	SHORT	
D8025	8-719-982-26	DIODE MTZJ-T-77-33B		JR5502	1-216-295-91	SHORT	
				JR6501	1-216-295-91	SHORT	
D8026	8-719-404-50	DIODE MA111-TX		JR8001	1-216-295-91	SHORT	
D8027	8-719-404-50	DIODE MA111-TX					
D8028	8-719-991-33	DIODE 1SS133T-77		JR8002	1-216-295-91	SHORT	
D8050	8-719-923-86	DIODE MTZJ-T-77-15		JR8003	1-216-295-91	SHORT	
D8051	8-719-923-86	DIODE MTZJ-T-77-15		JR8004	1-216-295-91	SHORT	
				JR8005	1-216-295-91	SHORT	
FERRITE BEAD				JR8006	1-216-295-91	SHORT	
FB5001	1-410-397-21	FERRITE	1.1 μ H	JR8007	1-216-295-91	SHORT	
FB5002	1-543-298-11	FERRITE	0 μ H	JR8051	1-216-295-91	SHORT	
FB6501	1-410-397-21	FERRITE	1.1 μ H				
FB6502	1-410-396-41	FERRITE	0.45 μ H	JR8052	1-216-295-91	SHORT	
FB6504	1-410-397-21	FERRITE	1.1 μ H				
FB6505	1-412-911-11	FERRITE	0 μ H	COIL			
FB6506	1-412-911-11	FERRITE	0 μ H	L5001	1-406-665-11	INDUCTOR	100 μ H
FB6508	1-410-396-41	FERRITE	0.45 μ H	L5002	1-406-663-21	INDUCTOR	47 μ H
FB6509	1-410-396-41	FERRITE	0.45 μ H	L5003	1-406-892-21	INDUCTOR	4mH
FB8001	1-410-396-41	FERRITE	0.45 μ H	L5004	1-412-525-31	INDUCTOR	10 μ H
				L5005	1-419-181-11	COIL, HORIZONTAL LINEARITY	
IC							
IC5001	8-759-701-01	IC NJM2904M(TE2)		L5504	1-406-989-21	INDUCTOR	10mH
IC5002	8-759-700-07	IC NJM2903M-TE2		L5505	1-406-989-21	INDUCTOR	10mH
IC5003	8-759-518-68	IC PQ12RF21		L5601	1-408-612-31	INDUCTOR	56 μ H
\triangle IC5004	8-759-192-71	IC STV9379		L6503	1-412-525-31	INDUCTOR	10 μ H
\triangle IC5005	8-759-803-42	IC LA6500-FA		L6504	1-412-525-31	INDUCTOR	10 μ H
IC5006	8-749-013-76	IC PQ6RD83B		L6505	1-406-665-11	INDUCTOR	100 μ H
IC5007	8-759-981-61	IC NJM2901M-TE2		L8001	1-406-670-11	INDUCTOR	680 μ H
IC5008	8-759-675-90	IC BA51W12ST-V5		L8002	1-419-658-11	INDUCTOR	107 μ H
IC5501	6-700-149-01	IC M24C04-MN6T(A)		L8005	1-406-674-11	INDUCTOR	3.3mH


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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
PHOTO COUPLER							
	PH6501	8-749-924-35	PHOTO COUPLER ON3171-R	Q5506	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
⚠	PH6502	8-749-924-35	PHOTO COUPLER ON3171-R	Q5507	8-729-931-45	TRANSISTOR IRF614	
⚠	PH6503	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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
IC LINK				Q6503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
⚠	PS6501	1-576-390-91	LINK, IC	⚠ Q6506	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
⚠	PS6502	1-576-390-91	LINK, IC	Q6507	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
TRANSISTOR				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	8-729-424-02	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	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
	Q5005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q6527	8-729-023-22	TRANSISTOR 2SD2114KT146	
				Q6528	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
				Q6529	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q6530	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
	Q5007	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	Q6531	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5008	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	Q6532	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5011	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8001	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5012	8-729-119-80	TRANSISTOR 2SC2688-LK	Q8002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5013	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	Q8003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8004	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
⚠	Q5015	8-729-119-80	TRANSISTOR 2SC2688-LK	Q8007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
⚠	Q5016	8-729-119-80	TRANSISTOR 2SC2688-LK	Q8008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5017	8-729-119-80	TRANSISTOR 2SC2688-LK	Q8009	8-729-200-17	TRANSISTOR 2SA10910-TPE2	
	Q5018	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	⚠ Q8013	8-729-044-42	TRANSISTOR IRFI644G-LF36	
	Q5020	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	⚠ Q8014	8-729-044-42	TRANSISTOR IRFI644G-LF36	
	Q5021	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8015	8-729-119-80	TRANSISTOR 2SC2688-LK	
	Q5022	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	Q8016	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
	Q5023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8018	8-729-043-95	TRANSISTOR 2SC3840K	
	Q5026	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	Q8019	1-801-806-11	TRANSISTOR DTC144EKA-T146	
	Q5027	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	Q8020	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5028	8-729-322-27	TRANSISTOR 2SK2182	Q8022	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
⚠	Q5030	8-729-052-71	TRANSISTOR 2SC3997S-SONY-RA	Q8023	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
	Q5031	8-729-053-24	TRANSISTOR 2SK3262-01MR	RESISTOR			
	Q5033	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	R5001	1-216-001-00	RES-CHIP	10 5% 1/10W
	Q5034	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5002	1-216-033-00	RES-CHIP	220 5% 1/10W
	Q5035	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5003	1-216-073-91	RES-CHIP	10K 5% 1/10W
	Q5036	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5004	1-216-099-00	RES-CHIP	120K 5% 1/10W
	Q5037	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5005	1-216-033-00	RES-CHIP	220 5% 1/10W
	Q5501	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5007	1-216-099-00	RES-CHIP	120K 5% 1/10W
	Q5502	1-801-806-11	TRANSISTOR DTC144EKA-T146	R5008	1-216-073-91	RES-CHIP	10K 5% 1/10W
	Q5503	1-801-806-11	TRANSISTOR DTC144EKA-T146	R5009	1-216-099-00	RES-CHIP	120K 5% 1/10W
	Q5504	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	R5011	1-216-099-00	RES-CHIP	120K 5% 1/10W
	Q5505	1-801-806-11	TRANSISTOR DTC144EKA-T146	R5012	1-208-814-91	METAL CHIP	22K 0.50% 1/10W
				R5013	1-216-393-00	METAL OXIDE	2.2 5% 3W
				R5014	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W

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









REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5121	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5505	1-208-840-11	METAL CHIP	270K	0.50%	1/10W
R5122	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5506	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5123	1-216-295-91	SHORT				R5507	1-216-017-91	RES-CHIP	47	5%	1/10W
R5124	1-216-295-91	SHORT				R5508	1-216-025-11	RES-CHIP	100	5%	1/10W
R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5509	1-216-025-11	RES-CHIP	100	5%	1/10W
R5126	1-216-025-11	RES-CHIP	100	5%	1/10W	R5510	1-216-025-11	RES-CHIP	100	5%	1/10W
R5127	1-215-890-11	METAL OXIDE	470	5%	2W	R5511	1-216-295-91	SHORT			
R5128	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5129	1-216-025-11	RES-CHIP	100	5%	1/10W	R5513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5130	1-249-401-11	CARBON	47	5%	1/4W	R5514	1-216-295-91	SHORT			
R5131	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	R5516	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W
R5132	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5518	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5133	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5519	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5134	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5520	1-208-816-11	METAL CHIP	27K	0.50%	1/10W
R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5521	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5136	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5522	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5137	1-216-481-11	METAL OXIDE	1.2K	5%	3W	R5523	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R5138	1-216-049-11	RES-CHIP	1K	5%	1/10W	R5525	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W	R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5141	1-215-915-11	METAL OXIDE	470	5%	3W	R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W	R5529	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W	R5530	1-216-025-11	RES-CHIP	100	5%	1/10W
R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W	R5531	1-216-001-00	RES-CHIP	10	5%	1/10W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W	R5532	1-216-001-00	RES-CHIP	10	5%	1/10W
R5146	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5535	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5147	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W	R5536	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W	R5544	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5149	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5545	1-208-818-11	METAL CHIP	33K	0.50%	1/10W
R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5548	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5152	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5554	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5153	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5563	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W
R5154	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5564	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5565	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5156	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5157	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5576	1-249-395-11	CARBON	15	5%	1/4W
R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5577	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R5159	1-216-025-11	RES-CHIP	100	5%	1/10W	R5578	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5160	1-216-025-11	RES-CHIP	100	5%	1/10W	R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5581	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R5585	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R5164	1-260-288-11	CARBON	0.47	5%	1/2W	R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W	R5599	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5502	1-216-295-91	SHORT				R5615	1-249-395-11	CARBON	15	5%	1/4W
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W	R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5504	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R5645	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R5647	1-208-758-11	METAL CHIP	100	0.50%	1/10W


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W	R6510	1-215-859-00	METAL OXIDE	22	5%	1W
R5649	1-215-886-11	METAL OXIDE	100	5%	2W	R6511	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5650	1-216-089-91	RES-CHIP	47K	5%	1/10W	R6512	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5657	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R6513	1-215-481-00	METAL	330K	1%	1/4W
R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W	R6514	1-215-481-00	METAL	330K	1%	1/4W
R5669	1-208-789-11	METAL CHIP	2K	0.50%	1/10W	R6515	1-260-131-11	CARBON	470K	5%	1/2W
R5670	1-208-820-11	METAL CHIP	39K	0.50%	1/10W	 R6516	1-202-962-11	CEMENTED	3.3	5%	10W
R5672	1-216-109-00	RES-CHIP	330K	5%	1/10W	R6517	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R5678	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	R6518	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
 R5679	1-249-395-11	CARBON	15	5%	1/4W	R6519	1-216-295-91	SHORT			
R5680	1-249-383-11	CARBON	1.5	5%	1/4W	R6521	1-260-328-11	CARBON	1K	5%	1/2W
R5684	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R6522	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5685	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	R6523	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5686	1-208-778-11	METAL CHIP	680	0.50%	1/10W	R6524	1-216-295-91	SHORT			
R5688	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R6525	1-216-041-00	RES-CHIP	470	5%	1/10W
R5689	1-216-017-91	RES-CHIP	47	5%	1/10W	 R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R5690	1-216-017-91	RES-CHIP	47	5%	1/10W	R6527	1-216-093-91	RES-CHIP	68K	5%	1/10W
R5692	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	R6528	1-216-025-11	RES-CHIP	100	5%	1/10W
R5693	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R6529	1-249-393-11	CARBON	10	5%	1/4W
R5694	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W	R6530	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5696	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	R6531	1-249-393-11	CARBON	10	5%	1/4W
R5697	1-208-764-11	METAL CHIP	180	0.50%	1/10W	R6532	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5698	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W	R6533	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5699	1-216-081-00	RES-CHIP	22K	5%	1/10W	R6534	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5700	1-208-810-11	METAL CHIP	15K	0.50%	1/10W	R6535	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5702	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R6536	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5704	1-214-657-11	METAL	1	1%	1/4W	R6537	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5705	1-214-657-11	METAL	1	1%	1/4W	R6538	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5707	1-216-017-91	RES-CHIP	47	5%	1/10W	R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R5708	1-216-429-00	METAL OXIDE	270	5%	1W	R6540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5709	1-216-017-91	RES-CHIP	47	5%	1/10W	R6541	1-216-077-91	RES-CHIP	15K	5%	1/10W
R5710	1-216-429-00	METAL OXIDE	270	5%	1W	R6542	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5711	1-260-288-11	CARBON	0.47	5%	1/2W	R6543	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R5712	1-260-288-11	CARBON	0.47	5%	1/2W	R6544	1-216-295-91	SHORT			
R5713	1-215-867-00	METAL OXIDE	470	5%	1W	R6547	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R5714	1-216-097-11	RES-CHIP	100K	5%	1/10W	R6550	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5715	1-216-097-11	RES-CHIP	100K	5%	1/10W	R6552	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5716	1-216-049-11	RES-CHIP	1K	5%	1/10W	R6553	1-216-109-00	RES-CHIP	330K	5%	1/10W
R5717	1-216-093-91	RES-CHIP	68K	5%	1/10W	R6556	1-217-625-00	METAL	0.05	10%	2W
R6501	1-208-757-11	METAL CHIP	91	0.50%	1/10W	R6557	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W	R6583	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6503	1-208-758-11	METAL CHIP	100	0.50%	1/10W	 R6590	1-249-415-11	CARBON	680	5%	1/4W
R6504	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6591	1-216-341-11	METAL OXIDE	0.22	5%	1W
R6506	1-249-377-11	CARBON	0.47	5%	1/4W	 R6593	1-249-405-11	CARBON	100	5%	1/4W
R6507	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6596	1-215-445-00	METAL	10K	1%	1/4W
R6508	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6597	1-215-469-00	METAL	100K	1%	1/4W
R6509	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6598	1-216-342-21	METAL OXIDE	0.27	5%	1W
						R6599	1-249-417-11	CARBON	1K	5%	1/4W


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R6600	1-215-445-00	METAL	10K	1%	1/4W	R8044	1-208-837-11	METAL CHIP	200K	0.50%	1/10W
R6602	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6603	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8049	1-208-758-11	METAL CHIP	100	0.50%	1/10W
R6604	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R6605	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8050	1-211-964-11	METAL CHIP	33	0.50%	1/10W
						 R8051	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R6612	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8053	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R6614	1-260-298-51	CARBON	3.3	5%	1/2W	R8054	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R6646	1-215-481-00	METAL	330K	1%	1/4W	R8055	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R8001	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R8002	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R8056	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
						R8057	1-208-809-11	METAL CHIP	13K	0.50%	1/10W
R8003	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8058	1-249-393-11	CARBON	10	5%	1/4W
R8004	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8059	1-216-295-91	SHORT			
R8005	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8060	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R8006	1-216-105-91	RES-CHIP	220K	5%	1/10W						
R8007	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8061	1-249-393-11	CARBON	10	5%	1/4W
R8008	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8062	1-216-073-91	RES-CHIP	10K	5%	1/10W
						 R8063	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W						
R8010	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8065	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8011	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8013	1-216-295-91	SHORT				R8068	1-216-295-91	SHORT			
R8016	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R8069	1-249-419-11	CARBON	1.5K	5%	1/4W
						R8070	1-217-611-00	METAL	0.1	10%	2W
R8017	1-216-295-91	SHORT									
R8018	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8071	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8019	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8072	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R8020	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8073	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R8021	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8074	1-208-793-11	METAL CHIP	3K	0.50%	1/10W
						R8077	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8022	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R8023	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8078	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8024	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8080	1-249-431-11	CARBON	15K	5%	1/4W
R8025	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	 R8081	1-249-377-11	CARBON	0.47	5%	1/4W
R8026	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8082	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
						R8085	1-219-749-91	CARBON	10K	5%	1/2W
R8027	1-208-826-11	METAL CHIP	68K	0.50%	1/10W						
R8028	1-208-818-11	METAL CHIP	33K	0.50%	1/10W	R8086	1-219-751-91	CARBON	47K	5%	1/2W
R8029	1-208-826-11	METAL CHIP	68K	0.50%	1/10W	R8087	1-216-295-91	SHORT			
R8030	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	R8089	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8031	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	R8091	1-215-485-00	METAL	470K	1%	1/4W
						R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8032	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R8033	1-208-781-11	METAL CHIP	910	0.50%	1/10W	R8095	1-215-485-00	METAL	470K	1%	1/4W
R8034	1-216-091-00	RES-CHIP	56K	5%	1/10W	R8096	1-216-295-91	SHORT			
 R8035	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W	R8098	1-249-441-11	CARBON	100K	5%	1/4W
 R8036	1-215-444-00	METAL	9.1K	1%	1/4W	R8099	1-249-441-11	CARBON	100K	5%	1/4W
						R8100	1-249-441-11	CARBON	100K	5%	1/4W
 R8037	1-215-444-00	METAL	9.1K	1%	1/4W						
 R8038	1-215-444-00	METAL	9.1K	1%	1/4W	R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
 R8039	1-215-444-00	METAL	9.1K	1%	1/4W	R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
 R8040	1-215-444-00	METAL	9.1K	1%	1/4W	R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8041	1-208-782-11	METAL CHIP	1K	0.50%	1/10W	R8104	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8042	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8043	1-216-349-00	METAL OXIDE	1	5%	1W	R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W

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

A component identified by this  symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8116	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8118	1-216-085-91	RES-CHIP	33K	5%	1/10W
R8119	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8123	1-216-025-11	RES-CHIP	100	5%	1/10W
R8124	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8125	1-216-001-00	RES-CHIP	10	5%	1/10W
R8126	1-216-001-00	RES-CHIP	10	5%	1/10W
R8127	1-216-295-91	SHORT			
 R8137	1-249-417-11	CARBON	1K	5%	1/4W
R8144	1-216-025-11	RES-CHIP	100	5%	1/10W
R8145	1-216-025-11	RES-CHIP	100	5%	1/10W
R8146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8147	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8148	1-208-826-11	METAL CHIP	68K	0.50%	1/10W
R8149	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R8150	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8151	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8152	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8199	1-249-389-11	CARBON	4.7	5%	1/4W
VARIABLE RESISTOR					
  RV8001	1-225-630-91	RES, VAR, ADJ, CERMET	20K		
  RV8002	1-225-627-91	RES, VAR, ADJ, CERMET	2K		
RELAY					
 RY6501	1-755-395-11	RELAY (AC POWER)			
 RY6502	1-755-214-11	RELAY, AC POWER			
SPARK GAP					
SG8002	1-517-499-21	GAP, SPARK			
SG8005	1-517-499-21	GAP, SPARK			
TRANSFORMER					
T5001	1-435-621-11	TRANSFORMER, HORIZONTAL OUTPUT			
T5002	1-435-636-11	TRANSFORMER, HORIZONTAL DRIVE			
 T6501	1-435-576-12	TRANSFORMER, CONVERTER (PIT)			
 T8001	1-453-346-11	FBT ASSY NX-6000/J1J4			
T8002	1-433-934-11	TRANSFORMER, FERRITE (DFT)			
THERMISTOR					
TH5001	1-800-193-00	THERMISTOR			
TH5002	1-807-796-11	THERMISTOR			

REF. NO.	PART NO.	DESCRIPTION	VALUES		
<div>HB</div>					
*	A-1372-904-A	HB (COM) MOUNTED PC BOARD			
CAPACITOR					
C4504	1-126-964-11	ELECT	10µF	20%	50V
C4505	1-126-964-11	ELECT	10µF	20%	50V
CONNECTOR					
CN4503	1-764-334-11	PLUG,CONNECTOR 11P			
DIODE					
D4503	8-719-977-28	DIODE UDZSTE-1710B			
D4505	8-719-977-28	DIODE UDZSTE-1710B			
D4506	8-719-977-28	DIODE UDZSTE-1710B			
FILTER					
FL4501	1-239-583-21	FILTER, EMI			
FL4502	1-239-583-21	FILTER, EMI			
FL4503	1-239-583-21	FILTER, EMI			
JACK					
J4501	1-770-053-11	TERMINAL BLOCK, S(LIGHT ANGLE)			
RESISTOR					
R4506	1-216-113-00	RES-CHIP	470K	5%	1/10W
R4507	1-216-113-00	RES-CHIP	470K	5%	1/10W
R4509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4511	1-216-295-91	SHORT			
R4512	1-216-295-91	SHORT			
R4513	1-216-295-91	SHORT			
<div>HA</div>					
*	A-1372-970-A	HA MOUNTED PC BOARD			
CAPACITOR					
C05	1-126-964-11	ELECT	10µF	20%	50V
CONNECTOR					
* CN01	1-564-515-11	PLUG,CONNECTOR 12P			
DIODE					
D01	8-719-074-84	DIODE LNK0120022G1			
D02	8-719-074-84	DIODE LNK0120022G1			
D07	8-719-109-89	DIODE RD5.6ES-T1B2			
IC					
IC01	8-742-212-20	HYB IC SBX3081-71			



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
RESISTOR						CONNECTOR						
R03	1-249-429-11	CARBON	10K	5%	1/4W	*	CN2401	1-785-303-11	CONNECTOR, DIN (PLUG) 64P			
R05	1-247-807-31	CARBON	100	5%	1/4W		DIODE					
R07	1-249-409-11	CARBON	220	5%	1/4W	D2401	8-719-977-28	DIODE UDZSTE-1710B				
R08	1-249-409-11	CARBON	220	5%	1/4W	D2402	8-719-977-28	DIODE UDZSTE-1710B				
R09	1-249-433-11	CARBON	22K	5%	1/4W	D2403	8-719-977-28	DIODE UDZSTE-1710B				
						D2405	8-719-977-28	DIODE UDZSTE-1710B				
						D2406	8-719-977-28	DIODE UDZSTE-1710B				
R12	1-215-445-00	METAL	10K	1%	1/4W							
R14	1-215-437-00	METAL	4.7K	1%	1/4W	D2407	8-719-977-28	DIODE UDZSTE-1710B				
R15	1-215-431-00	METAL	2.7K	1%	1/4W	D2409	8-719-977-28	DIODE UDZSTE-1710B				
R16	1-215-427-00	METAL	1.8K	1%	1/4W	D2410	8-719-800-76	DIODE MA153-TX				
R17	1-215-425-00	METAL	1.5K	1%	1/4W	D2411	8-719-977-28	DIODE UDZSTE-1710B				
						D2412	8-719-800-76	DIODE MA153-TX				
R18	1-215-421-00	METAL	1K	1%	1/4W							
R19	1-215-419-00	METAL	820	1%	1/4W	D2413	8-719-800-76	DIODE MA153-TX				
R20	1-215-415-00	METAL	560	1%	1/4W	D2414	8-719-800-76	DIODE MA153-TX				
R21	1-215-413-00	METAL	470	1%	1/4W	D2415	8-719-800-76	DIODE MA153-TX				
R22	1-215-413-00	METAL	470	1%	1/4W	D2416	8-719-800-76	DIODE MA153-TX				
R23	1-249-385-11	CARBON	2.2	5%	1/4W	D2423	8-719-800-76	DIODE MA153-TX				
SWITCH						D2424	8-719-800-76	DIODE MA153-TX				
S01	1-571-032-41	SWITCH PUSH (1 KEY)				D2425	8-719-800-76	DIODE MA153-TX				
S02	1-762-837-11	SWITCH TACTILE				D2426	8-719-800-76	DIODE MA153-TX				
S03	1-762-837-11	SWITCH TACTILE										
S04	1-762-837-11	SWITCH TACTILE				D2427	8-719-800-76	DIODE MA153-TX				
S05	1-762-837-11	SWITCH TACTILE				D2428	8-719-800-76	DIODE MA153-TX				
S06	1-692-431-21	SWITCH TACTILE				D2429	8-719-977-28	DIODE UDZSTE-1710B				
S07	1-692-431-21	SWITCH TACTILE				D2430	8-719-977-28	DIODE UDZSTE-1710B				
S08	1-692-431-21	SWITCH TACTILE				D2431	8-719-977-28	DIODE UDZSTE-1710B				
S09	1-692-431-21	SWITCH TACTILE										
S10	1-692-431-21	SWITCH TACTILE				D2432	8-719-977-28	DIODE UDZSTE-1710B				
S11	1-692-431-21	SWITCH TACTILE				D2433	8-719-977-28	DIODE UDZSTE-1710B				
						D2434	8-719-977-28	DIODE UDZSTE-1710B				
U						JACK						
						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				
CAPACITOR						RESISTOR						
C2405	1-126-964-11	ELECT	10μF	20%	50V	R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2406	1-126-791-11	ELECT	10μF	20%	16V	R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2407	1-126-964-11	ELECT	10μF	20%	50V	R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2408	1-126-791-11	ELECT	10μF	20%	16V	R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2409	1-126-964-11	ELECT	10μF	20%	50V	R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2410	1-126-964-11	ELECT	10μF	20%	50V	R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W	
C2411	1-126-926-11	ELECT	1000μF	20%	10V	R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W	
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							



S

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A-1391-048-A S MOUNTED PC BOARD

CAPACITOR

C4101	1-126-964-11	ELECT	10μF	20%	50V
C4102	1-126-964-11	ELECT	10μF	20%	50V
C4103	1-126-959-11	ELECT	0.47μF	20%	50V
C4104	1-126-959-11	ELECT	0.47μF	20%	50V
C4105	1-126-968-11	ELECT	100μF	20%	50V
C4106	1-126-968-11	ELECT	100μF	20%	50V
C4107	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C4108	1-126-964-11	ELECT	10μF	20%	50V
C4109	1-126-964-11	ELECT	10μF	20%	50V
C4110	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C4111	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4112	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C4113	1-115-340-11	CERAMIC CHIP	0.22μF	10%	25V
C4114	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C4115	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C4116	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C4117	1-126-968-11	ELECT	100μF	20%	50V

CONNECTOR

CN4101	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P
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DIODE

D4101	8-719-914-43	DIODE DAN202K-T-146
D4102	8-719-914-44	DIODE DAP202K-T-146

IC

IC4101	8-759-686-15	IC NJM2180M (TE2)
IC4102	8-759-711-10	IC NJU4066BM-T1
IC4103	8-752-058-68	IC CXA1315M-T4

COIL

L4101	1-408-607-31	INDUCTOR	22μH
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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

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R4104	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R4105	1-216-073-91	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	1-216-073-91	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	1-216-295-91	SHORT			
R4115	1-216-295-91	SHORT			
R4116	1-216-089-91	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	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4121	1-216-077-91	RES-CHIP	15K	5%	1/10W
R4123	1-216-073-91	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	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4128	1-216-091-00	RES-CHIP	56K	5%	1/10W
R4129	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4130	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4131	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R4132	1-216-085-91	RES-CHIP	33K	5%	1/10W
R4133	1-216-092-00	RES-CHIP	62K	5%	1/10W
R4134	1-216-073-91	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

W

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A-1372-833-A W MOUNTED PC BOARD

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	1-163-009-91	CERAMIC CHIP	0.001μF	10%	50V
C9104	1-163-009-91	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

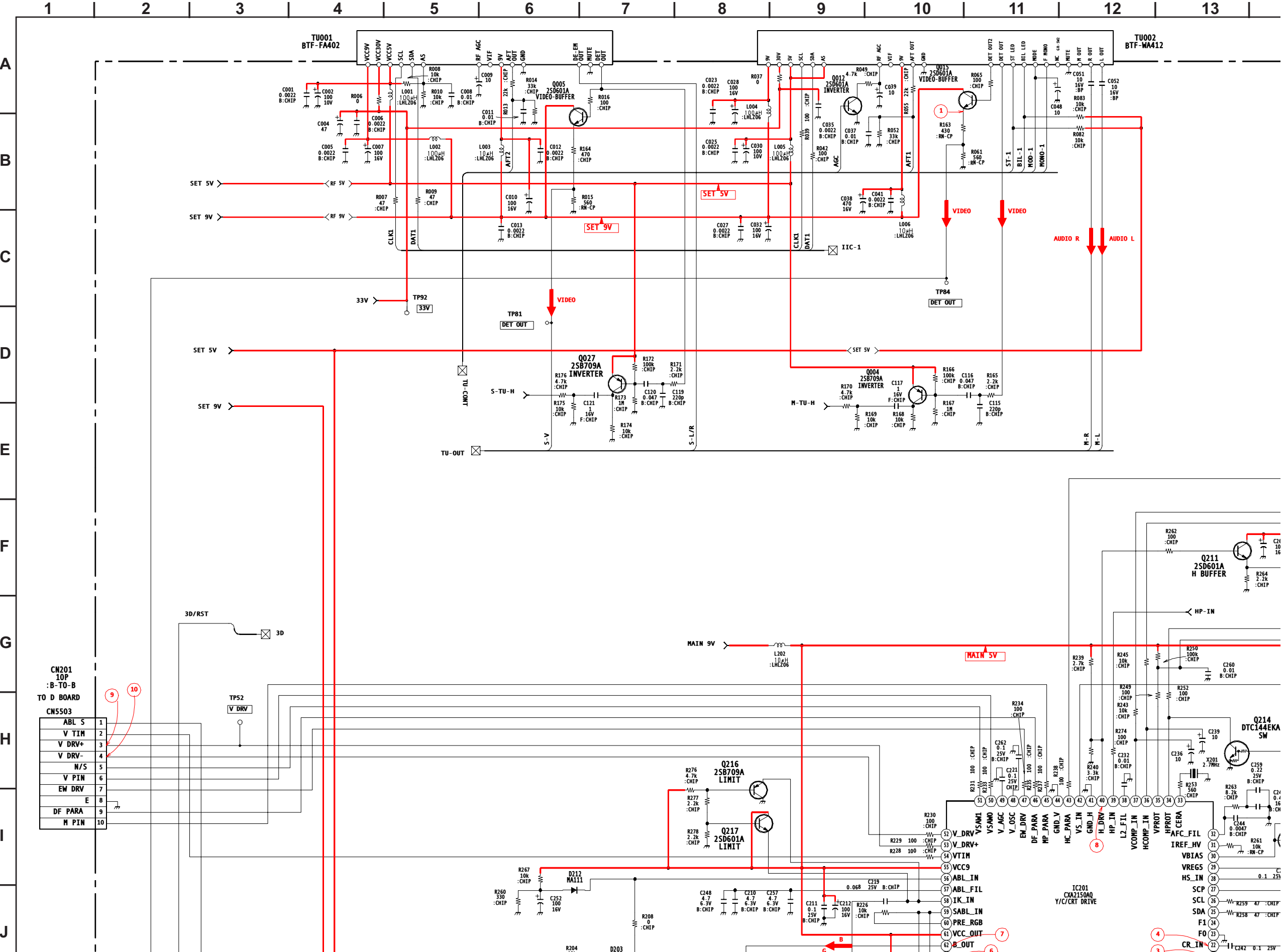


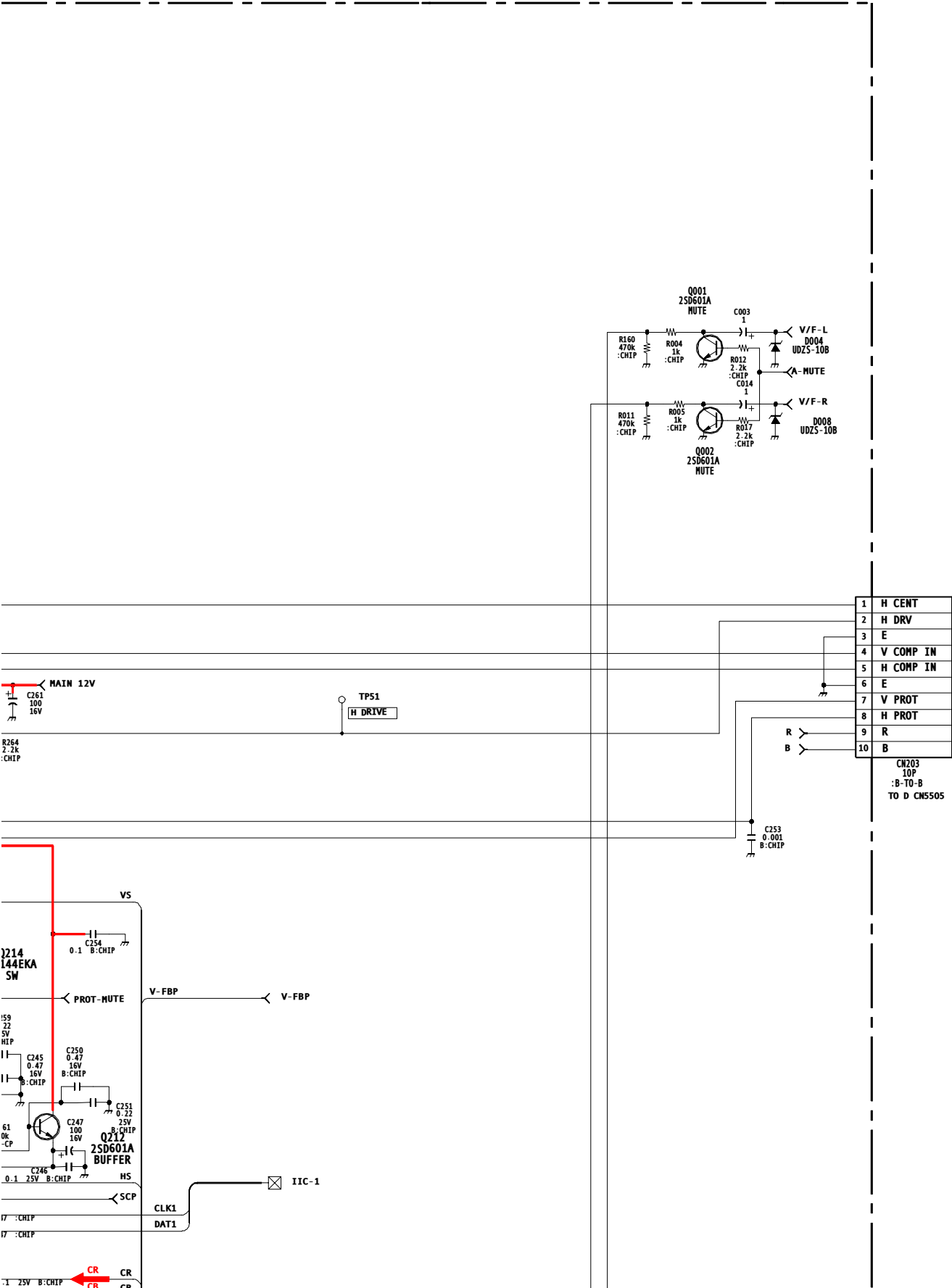
REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9109	1-107-963-11	ELECT	33μF	20%	160V	R9108	1-260-316-51	CARBON	100	5%	1/2W
C9112	1-126-933-11	ELECT	100μF	20%	16V	R9109	1-249-385-11	CARBON	2.2	5%	1/4W
C9113	1-126-933-11	ELECT	100μF	20%	16V	R9110	1-249-385-11	CARBON	2.2	5%	1/4W
C9115	1-126-935-11	ELECT	470μF	20%	6.3V	R9111	1-249-405-11	CARBON	100	5%	1/4W
C9116	1-126-935-11	ELECT	470μF	20%	6.3V	R9112	1-215-915-11	METAL OXIDE	470	5%	3W
C9117	1-104-999-11	MYLAR	0.1μF	10%	200V	R9113	1-216-017-91	RES-CHIP	47	5%	1/10W
CONNECTOR						R9114	1-249-425-11	CARBON	4.7K	5%	1/4W
* CN9101	1-564-506-11	PLUG,CONNECTOR 3P				R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
* CN9102	1-564-515-11	PLUG,CONNECTOR 12P				R9117	1-216-047-91	RES-CHIP	820	5%	1/10W
* CN9103	1-564-506-11	PLUG,CONNECTOR 3P				R9118	1-249-405-11	CARBON	100	5%	1/4W
* CN9104	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P				R9119	1-249-399-11	CARBON	33	5%	1/4W
DIODE						R9120	1-247-807-31	CARBON	100	5%	1/4W
D9101	8-719-924-11	DIODE MTZJ-T-77-22				R9121	1-249-409-11	CARBON	220	5%	1/4W
D9102	8-719-924-11	DIODE MTZJ-T-77-22				R9122	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
D9103	8-719-404-50	DIODE MA111-TX				R9123	1-249-401-11	CARBON	47	5%	1/4W
D9104	8-719-404-50	DIODE MA111-TX				R9124	1-249-401-11	CARBON	47	5%	1/4W
D9105	8-719-404-50	DIODE MA111-TX				R9125	1-216-073-91	RES-CHIP	10K	5%	1/10W
D9106	8-719-404-50	DIODE MA111-TX				R9126	1-249-395-11	CARBON	15	5%	1/4W
D9107	8-719-510-02	DIODE D1NS4-TR				R9127	1-216-005-00	RES-CHIP	15	5%	1/10W
COIL						R9128	1-216-295-91	SHORT			
L9101	1-412-525-31	INDUCTOR	10μH			ACCESSORIES AND PACKAGING					
TRANSISTOR						* 4-066-646-02	BAG, PROTECTION				
Q9101	8-729-045-05	TRANSISTOR 2SA2005				4-082-506-41	MANUAL, INSTRUCTION				
Q9102	8-729-045-04	TRANSISTOR 2SC5511									
Q9103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				* 4-076-522-02	CUSHION ASSY, UPPER (FRONT)				
Q9104	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX				* 4-076-523-01	CUSHION ASSY, LOWER				
Q9105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				* 4-076-526-04	CARTON, INDIVIDUAL				
Q9106	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				REMOTE COMMANDER					
Q9107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR				1-476-683-11	REMOTE COMMANDER (RM-Y184)				
Q9108	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX				4-081-888-11	BATTERY COVER FOR (RM-Y184)				
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						

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

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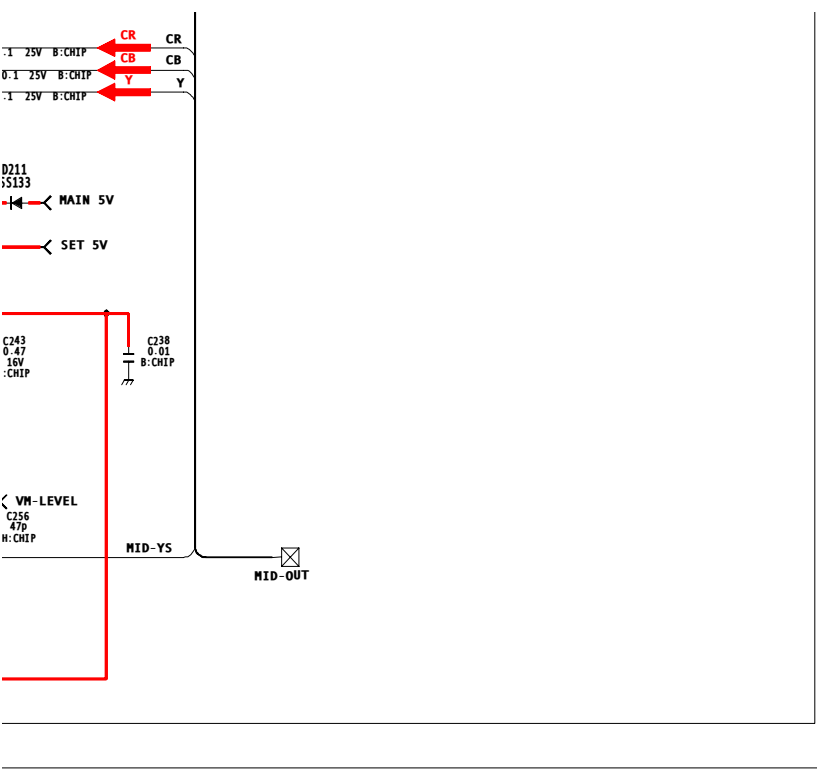
A BOARD SCHEMATIC DIAGRAM (1 OF 3)





A BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E		B	C	E
Q001	0.4	0.0	GND	Q702	0.1	5.0	0.0	Q731	0.0	0.0	5.0
Q002	0.4	0.0	GND	Q703	4.6	5.0	GND	Q6001	0.0	18.0	GND
Q004	4.6	1.1	5.0	Q704	0.0	4.4	GND	Q6002	19.7	18.5	19.8
Q005	4.3	9.0	3.6	Q705	5.0	0.0	0.0	Q6009	10.3	0.0	10.9
QO12	0.1	7.5	GND	Q706	5.0	0.0	0.0	Q6010	0.0	9.0	GND
Q015	6.2	9.0	5.5	Q707	0.5	0.0	GND	Q7001	0.3	0.0	0.0
Q027	4.5	0.0	5.0	Q709	10.4	0.7	10.2	Q7004	0.3	8.0	GND
Q203	2.3	GND	3.2	Q710	19.5	0.0	19.9	Q7005	0.0	0.0	GND
Q204	2.5	GND	3.2	Q712	0.0	5.0	0.0	Q7009	0.3	8.0	GND
Q207	2.3	GND	3.2	Q717	0.0	5.0	GND	Q7010	0.0	0.7	GND
Q208	2.3	GND	3.2	Q721	0.0	0.0	GND	Q7013	0.0	0.0	GND
Q209	0.8	2.2	GND	Q723	0.2	4.6	GND	Q7014	0.0	4.1	GND
Q211	2.8	11.5	2.3	Q724	0.5	4.6	GND	Q7015	0.0	0.0	GND

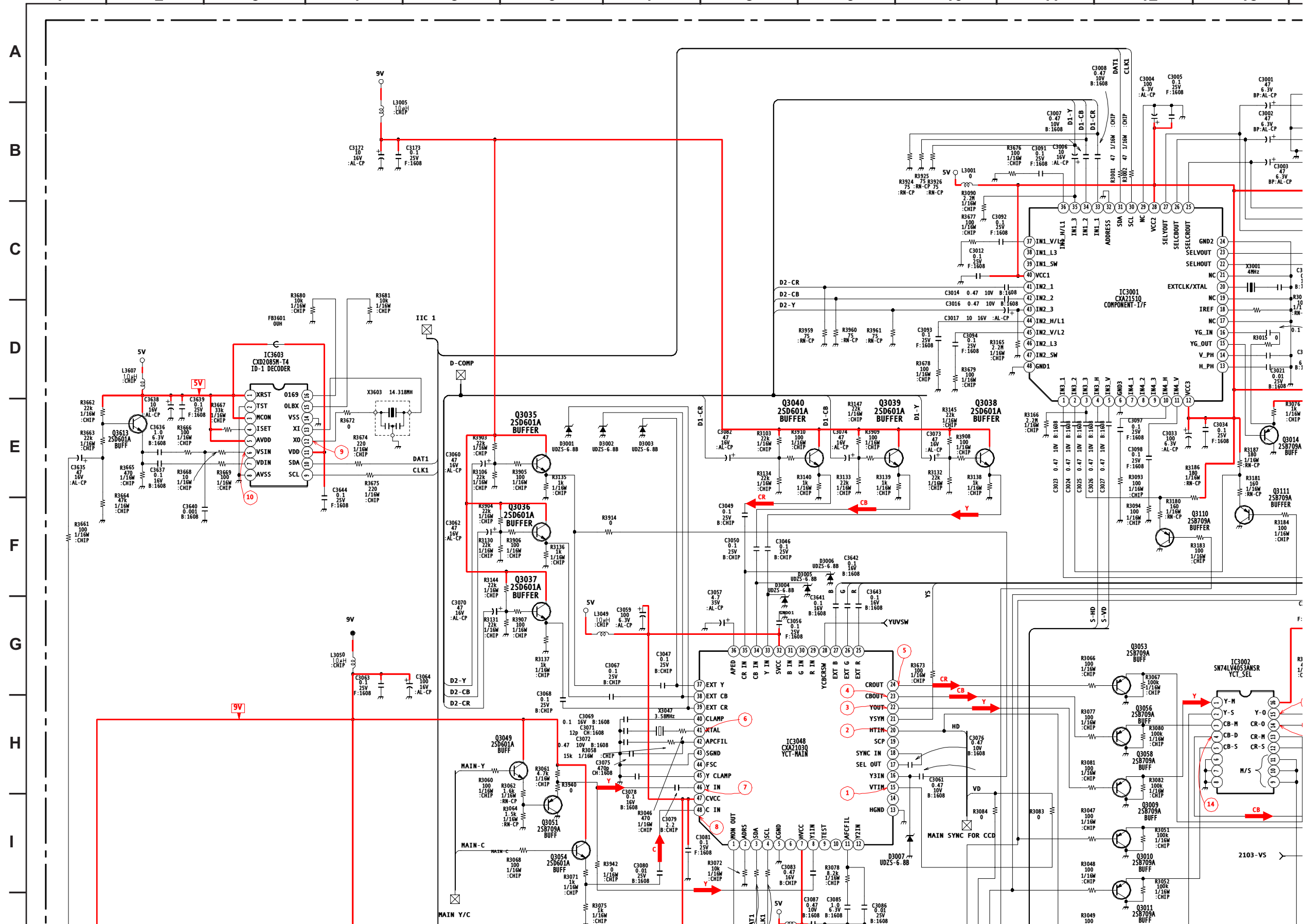


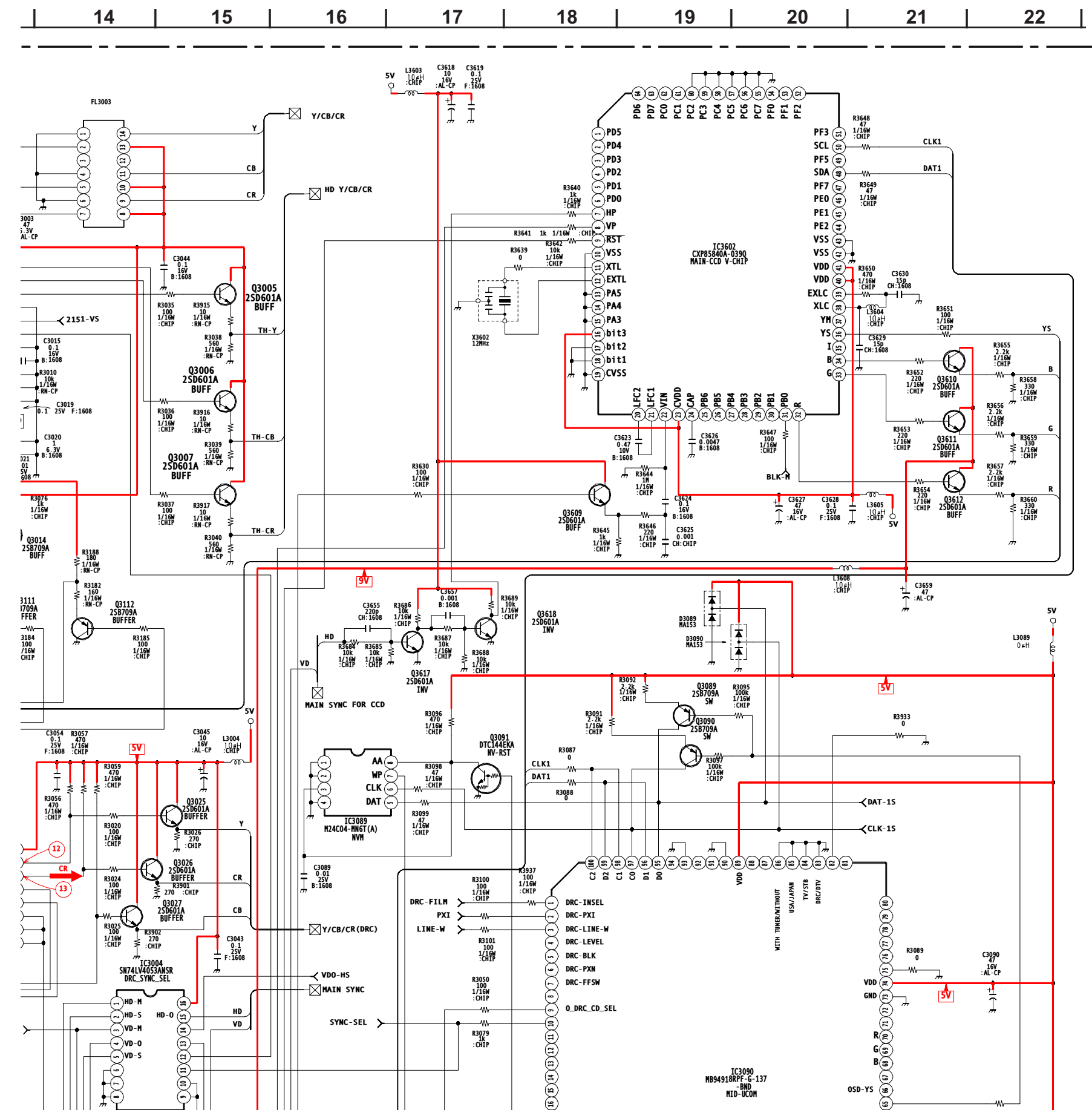
TUNER
CRT DRIVE

DX1A-912-A

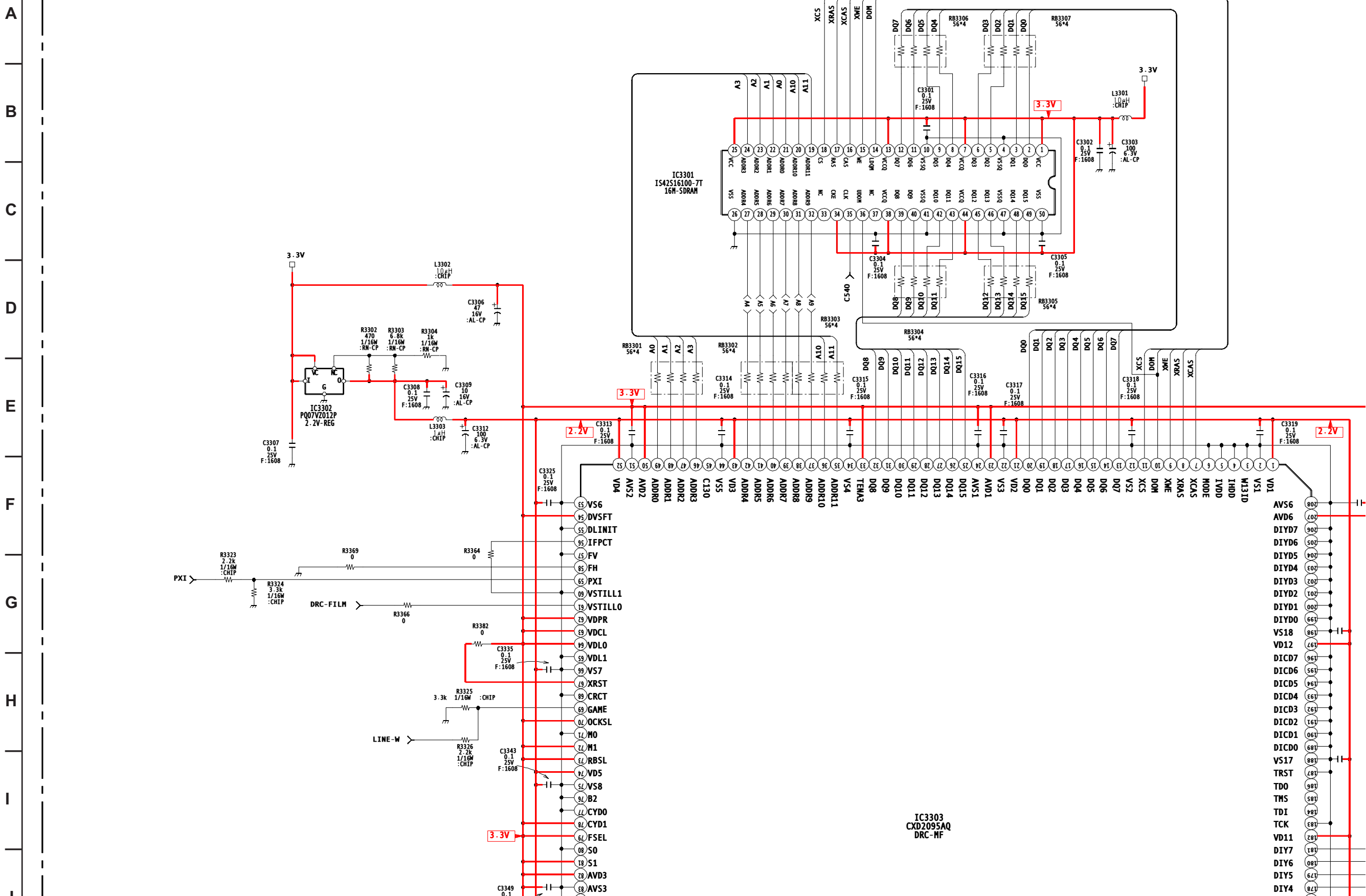
Q211	2.8	11.5	2.3	Q724	0.5	4.6	GND	Q7015	0.0	0.0	GND
Q212	5.6	9.0	5.0	Q726	0.0	0.1	6.3	Q7016	0.0	4.2	GND
Q214	0.0	0.0	GND	Q727	0.0	0.1	6.3		D	G	S
Q216	4.5	GND	3.9	Q728	0.1	0.0	GND	Q6007	150.4	4.7	0.0
Q217	4.4	8.7	3.9	Q729	0.1	0.0	GND	Q6008	303.0	154.6	150.0
Q701	4.7	4.7	5.0	Q730	10.4	0.7	10.2	All voltages are in V.			

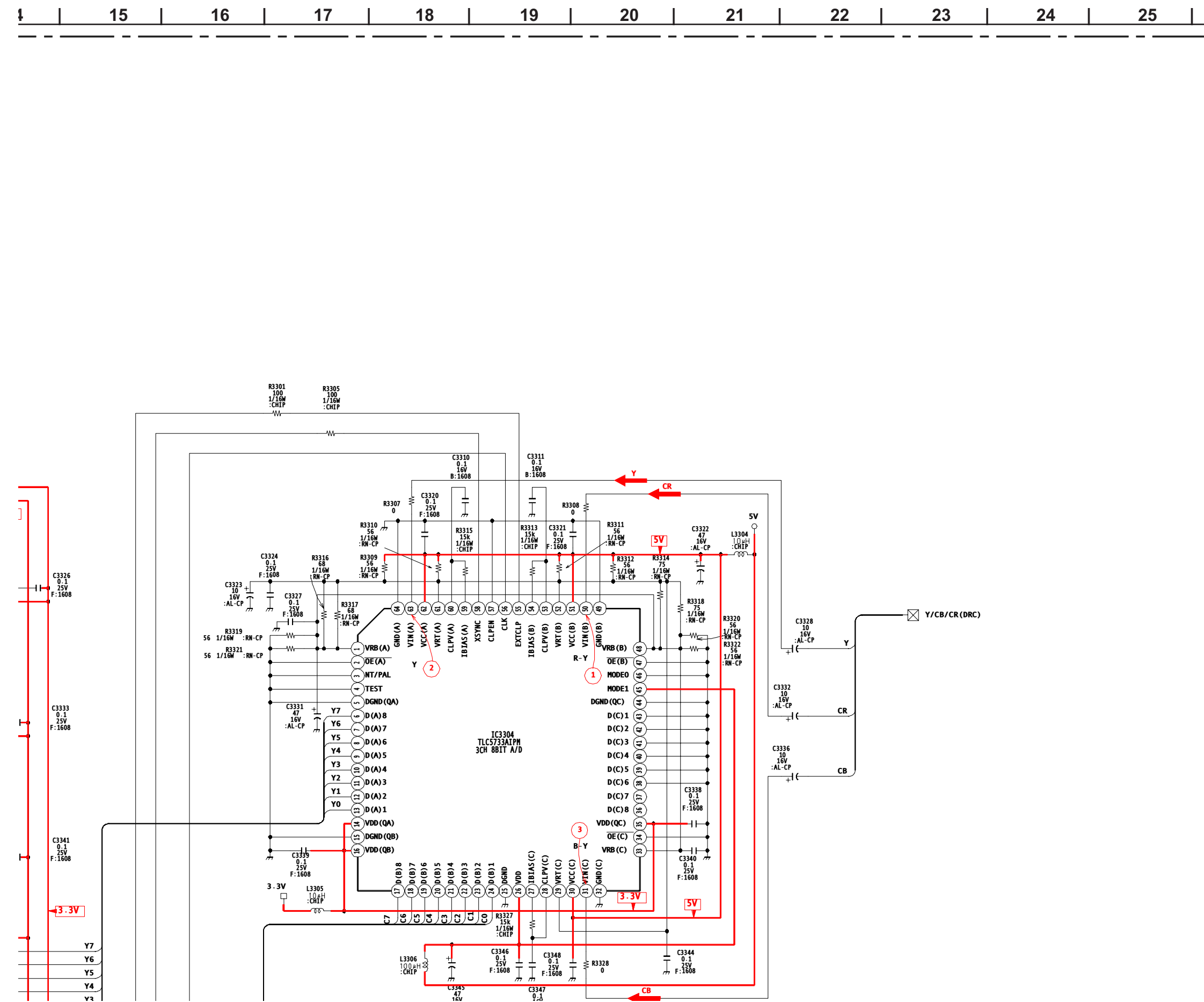
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |











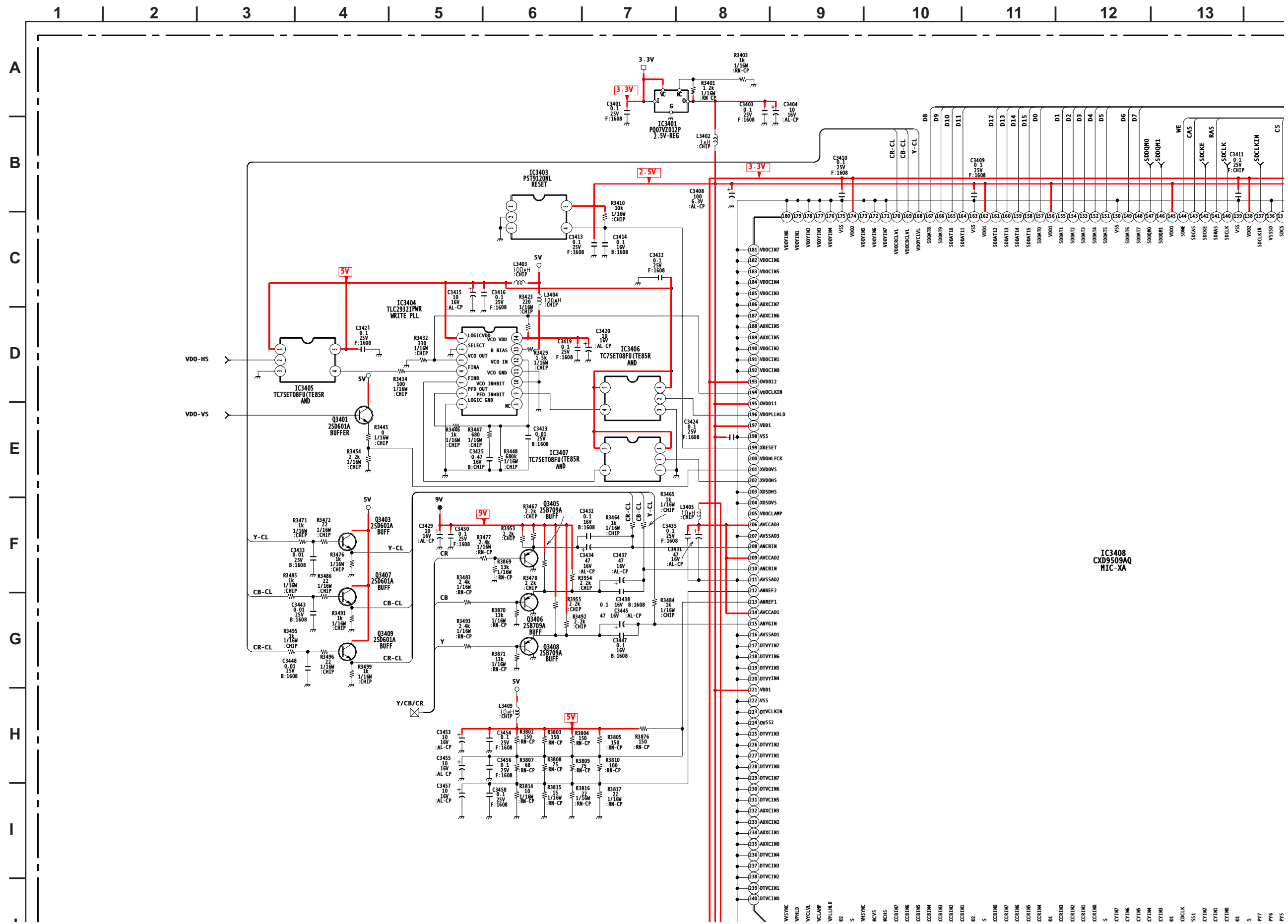
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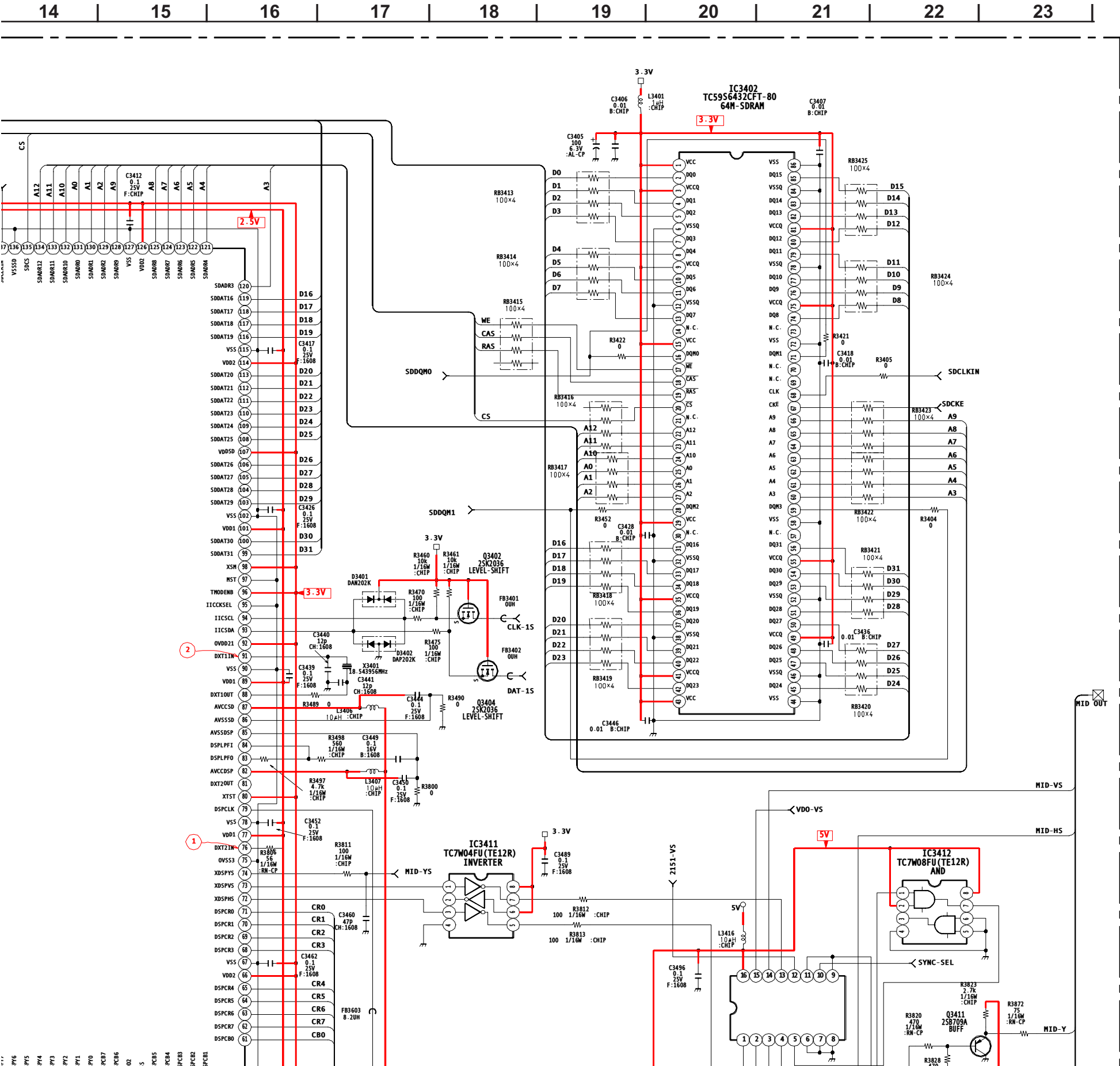




3CH 8BIT A/D
DRC-MF

B BOARD SCHEMATIC DIAGRAM (4 OF 4)

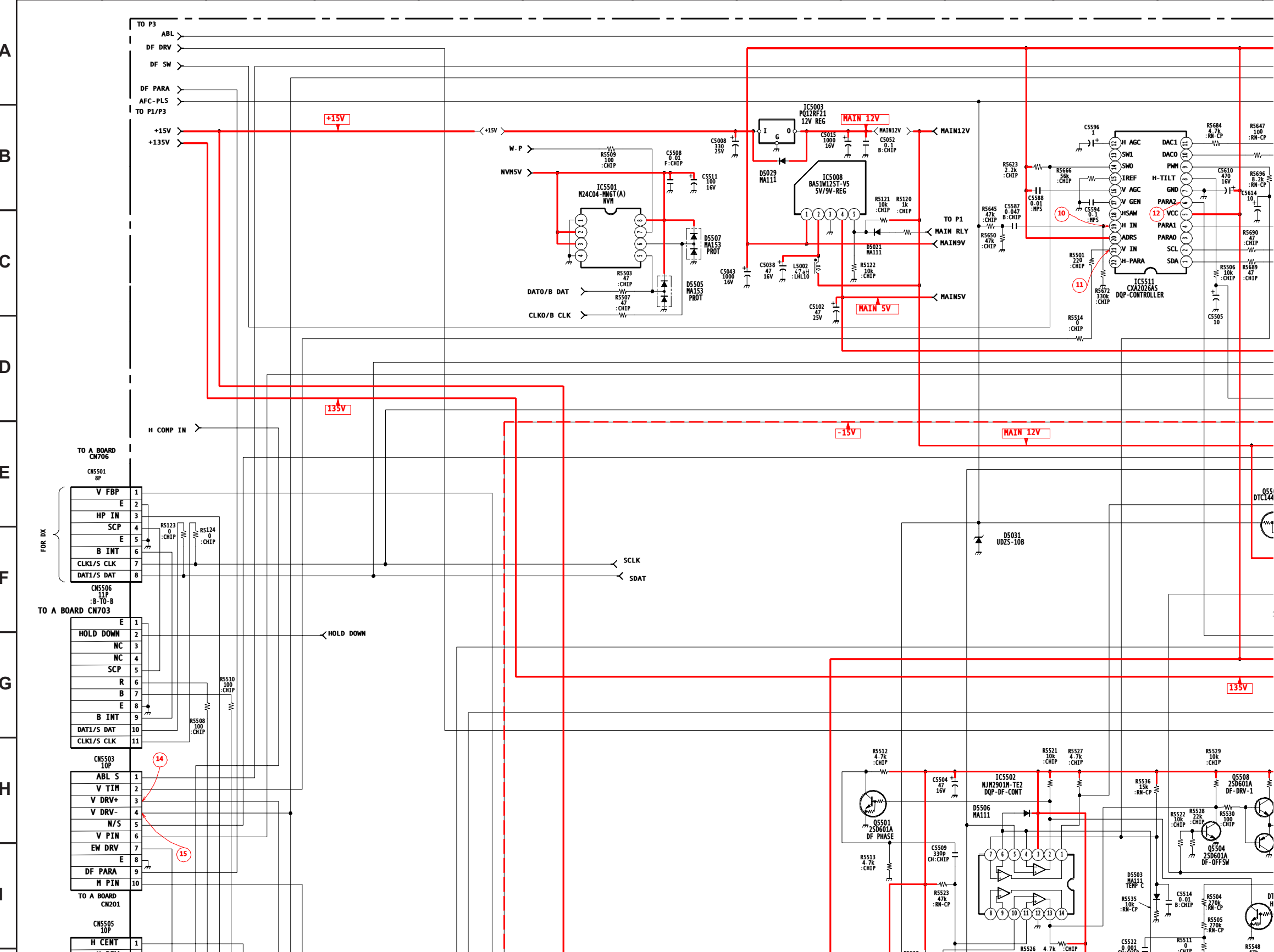


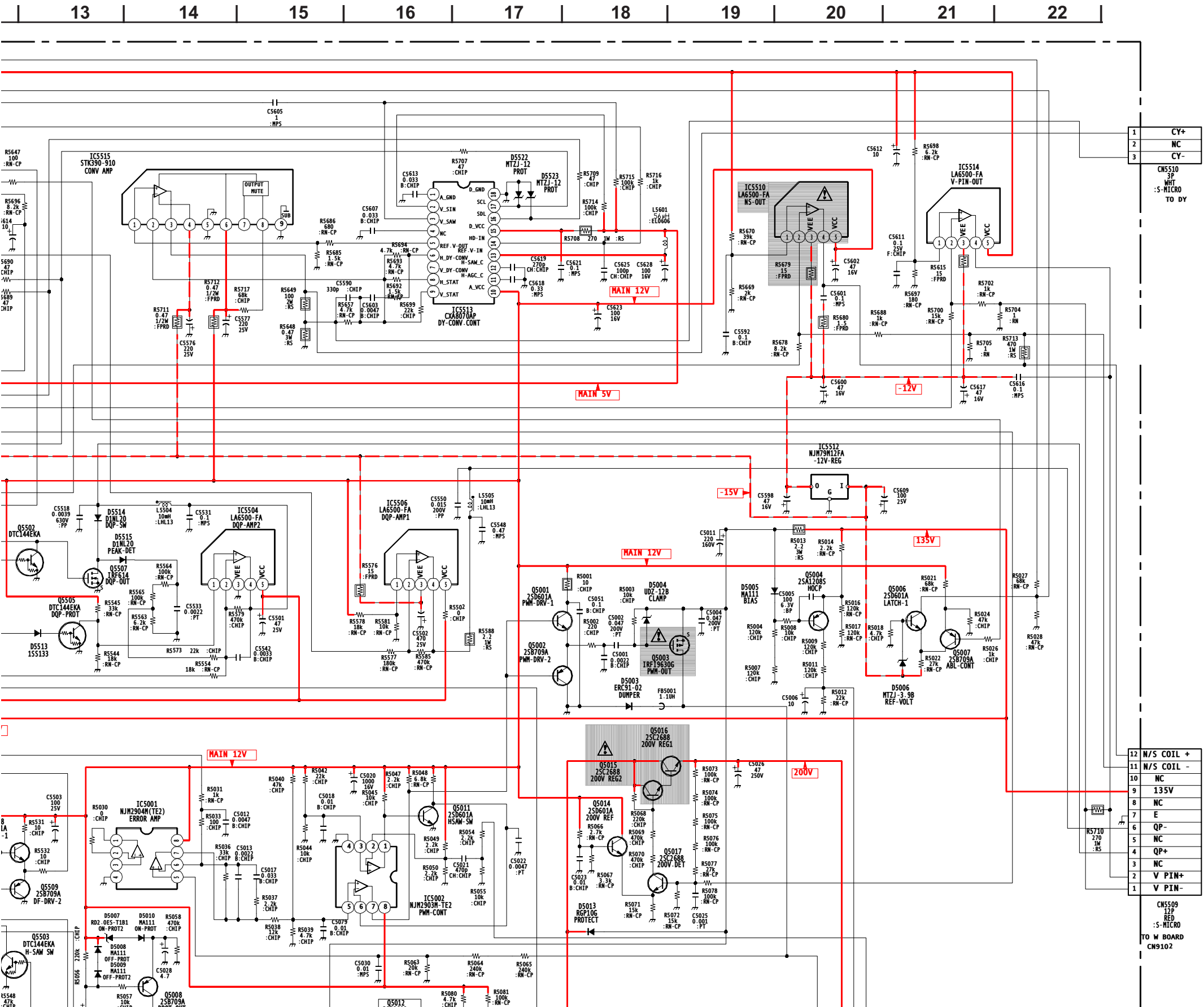


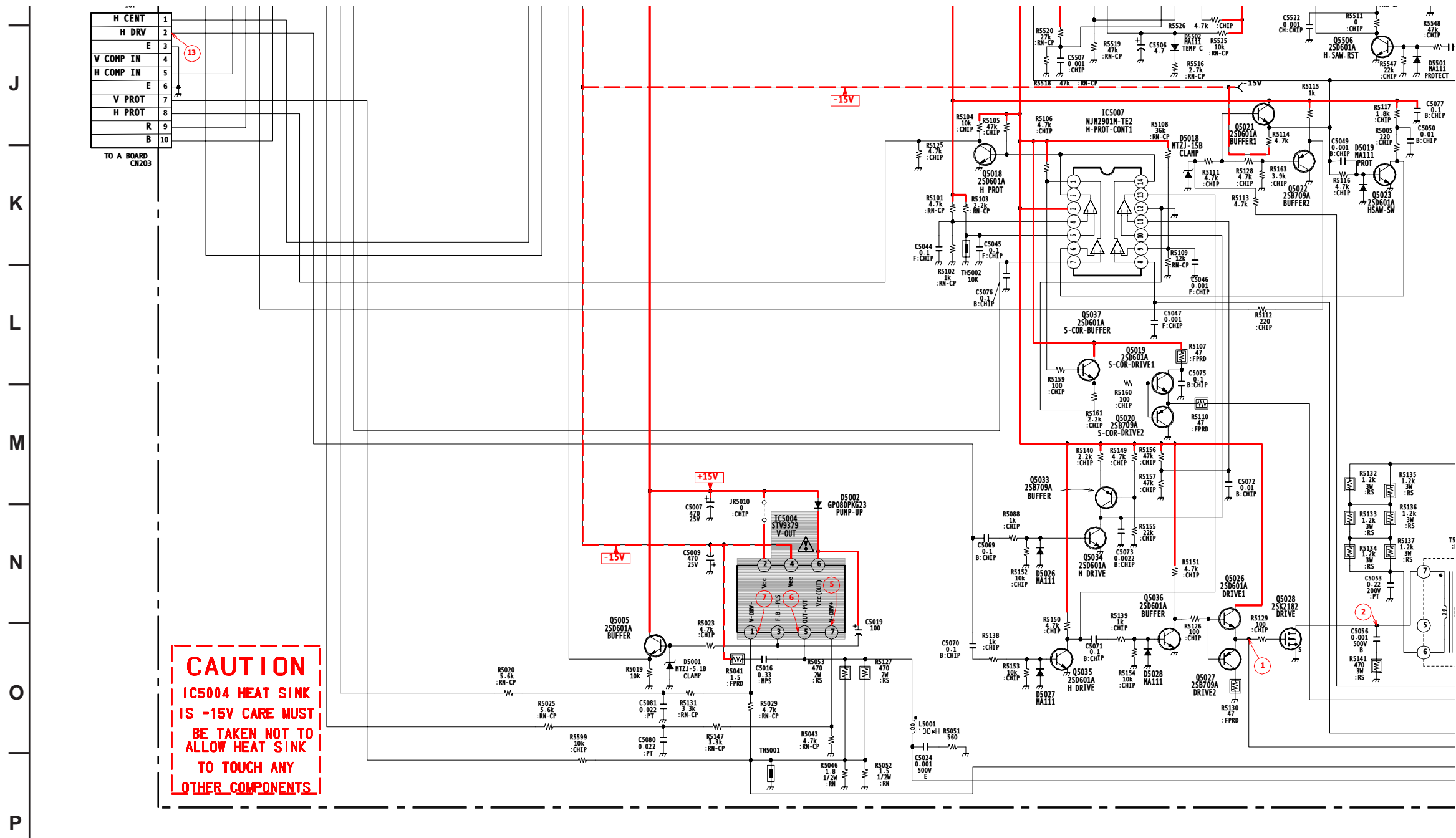
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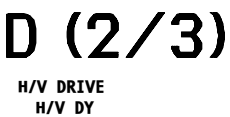


1	2	3	4	5	6	7	8	9	10	11	12
---	---	---	---	---	---	---	---	---	----	----	----









H/V DRIVE
H/V DY

DX1A-912-D

SONY

4-082-506-41

FD Trinitron
WEGA™
Televisor Trinitron a Color

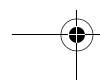
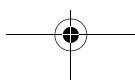
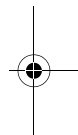
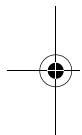
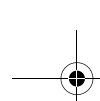
XBR

Manual de instrucciones

Lea este manual antes de usar el producto.

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KV-38DRC2 KV-38DRC2C



ADVERTENCIA

Para reducir el riesgo de incendio o descarga eléctrica, no exponga el televisor a la lluvia o humedad.



Este símbolo señala al usuario la presencia de voltaje peligroso sin aislamiento en el interior del aparato de tal intensidad que podría presentar riesgo de descarga eléctrica.



Este símbolo sirve para indicar al usuario la presencia de instrucciones de operación y mantenimiento en la literatura que acompaña al producto.

PRECAUCIÓN

PARA EVITAR DESCARGAS ELÉCTRICAS, INTRODUZCA EL ENCHUFE EN EL TOMACORRIENTE POR COMPLETO. CON EL CONTACTO ANCHO DEL ENCHUFE EN LA RANURA ANCHA DEL TOMACORRIENTE.

PRECAUCIÓN

Al usar videojuegos, computadoras y productos similares con el televisor, mantenga los ajustes de brillo y contraste a un nivel moderado. Si una imagen inmóvil permanece en la pantalla durante un periodo prolongado con elevada intensidad de brillo o contraste, la imagen podría quedar grabada en la pantalla en forma permanente. Igualmente, ver continuamente el mismo programa de televisión podría dejar grabada en la pantalla el logotipo de la emisora. La garantía no ofrece cobertura para este tipo de problema, ya que se produce como resultado de un uso inadecuado.

Nota sobre Caption Vision

Este televisor permite ver subtítulos, en cumplimiento con lo dispuesto en el inciso 15.119 de las normas de la Comisión Federal de Comunicaciones (FCC) de EE.UU.

Nota sobre la limpieza del televisor

Limpie el televisor con un paño suave y seco. Nunca emplee disolventes, como diluyente de pintura o bencina, ya que pueden dañar el acabado exterior.

Nota para el instalador del sistema de cable

Esta nota tiene el propósito de llamar la atención del instalador del sistema de cable sobre el Artículo 820-40 del NEC, que contiene las normas para la puesta a tierra y, en particular, especifica que la tierra del cable debe conectarse al sistema de tierra del edificio, en el punto más próximo que sea factible a donde entra el cable al edificio.

El empleo de este televisor para fines que no sean la recepción privada de programas transmitidos por UHF, VHF o cable, destinados a uso del público en general, podría requerir autorización de la emisora o compañía de cable, del propietario del programa o de ambos.

NOTIFICACIÓN

Este aparato ha sido debidamente probado, comprobándose que cumple con los límites impuestos a dispositivos digitales Clase B de acuerdo con la Sección 15 de las normas de la FCC. Estos límites se establecieron para ofrecer protección razonable contra interferencias perjudiciales en las instalaciones residenciales. Este aparato genera, usa y puede emitir energía radioeléctrica. De no instalarse y utilizarse de acuerdo con las instrucciones correspondientes, podría producir interferencias perjudiciales en las radiocomunicaciones. No obstante, no puede garantizarse que no se produzcan estas interferencias en una instalación determinada. Si este aparato llega a interferir en la recepción por radio o televisión, lo que podrá comprobarse encendiendo y apagando el aparato, se recomienda al usuario intentar corregir la interferencia mediante una o más de las siguientes medidas:

- ☐ Reoriente o cambie de lugar las antenas receptoras.
- ☐ Aumente la distancia que separa este aparato y el receptor afectado.
- ☐ Enchufe el aparato en una toma de corriente de un circuito distinto al que esté enchufado el receptor afectado.
- ☐ Consulte con el distribuidor o solicite los servicios de un técnico capacitado en radio y televisión. Cualquier cambio o modificación que no se detalla expresamente en el presente manual podría invalidar su autorización para emplear este aparato.

Seguridad

- ☐ Use el televisor únicamente con corriente alterna de 120 V
- ☐ Por motivos de seguridad, la clavija entrará en el tomacorriente en una sola posición. Si no puede meter la clavija completamente en el tomacorriente, consulte con su proveedor.
- ☐ Si algún líquido u objeto cae dentro del televisor, desconecte el aparato inmediatamente y llévelo a revisar por personal de servicio técnico especializado antes de volver a utilizarlo.

Instalación

- ☐ Para evitar el sobrecalentamiento interno, no tape las rejillas de ventilación.
- ☐ No instale el televisor en un lugar caliente o húmedo, ni donde quede expuesto a cantidades excesivas de polvo o vibraciones mecánicas.
- ☐ El cable eléctrico está fijado a la parte posterior del televisor con ganchos. No intente extraer el cable de estos ganchos. Si lo hace, podría dañar el televisor.

XBR

TruSurround™
by SRS®

TruSurround es una marca comercial de SRS Labs, Inc. SRS y el símbolo SRS son marcas comerciales registradas de SRS Labs, Inc. en los Estados Unidos de América y en países extranjeros seleccionados. SRS y

TruSurround están incorporadas bajo licencia de SRS Labs, Inc. y están protegidas bajo los números de patente de los Estados

Unidos 4.748.669 y 4.841.572 con varias patentes extranjeras emitidas y pendientes adicionales. La adquisición de este producto no concede el derecho de venta de grabaciones realizadas con la tecnología TruSurround.

BBE y el símbolo de BBE son marcas comerciales de BBE Sound, Inc., usadas bajo licencia de BBE Sound, Inc. conforme a las Patentes Nos. 4.638.258 y 4.482.866 de Estados Unidos.

FD Trinitron y el logotipo de Wega son marcas comerciales de Sony Corporation.

Número de serie

Los números de modelo y serie están situados en la parte frontal de este manual de instrucciones y en la parte posterior del televisor. Refiérase a ellos cuando se comuniquen con su proveedor Sony acerca de este producto.

Normas importantes sobre seguridad

Para su protección, lea detenidamente estas instrucciones y guarde este manual para futuras consultas.

Lea cuidadosamente todas las advertencias y precauciones y siga las instrucciones señaladas en el televisor o descritas en el manual de instrucciones o de reparación.

ADVERTENCIA

Para protegerse contra daños personales, siga las precauciones de seguridad básicas durante la instalación, la utilización y el mantenimiento del televisor indicadas a continuación.

Utilización

Fuentes de alimentación

Este televisor solamente deberá alimentarse con el tipo de fuente de alimentación indicado en la etiqueta de serie/modelo. Si no está seguro sobre el tipo de red eléctrica de su hogar, consulte a su proveedor o a la compañía de suministro eléctrico local. En caso de un televisor diseñado para alimentarse con pilas, consulte su manual de instrucciones.



Conexión a tierra o polarización

Este aparato cuenta con cable eléctrico con clavija polarizada (una cuchilla de la clavija es más ancha que la otra) o con tres terminales (el tercero es para puesta a tierra). Siga las instrucciones indicadas a continuación:

Para un televisor con clavija polarizada

Esta clavija solamente encajará en la toma de alimentación de una sola forma. Ésta es una medida de seguridad. Si no puede insertar completamente la clavija en la toma de alimentación, invírtala. Si la clavija sigue sin poder insertarse, comuníquese con un electricista para que le instale una toma adecuada. No intente contravenir esta medida de seguridad insertando la clavija a fuerza.

Advertencia alternativa

Para un televisor con clavija de tres terminales con conexión a tierra

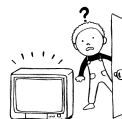
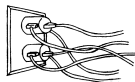
Esta clavija solamente podrá insertarse en una toma de la red con conexión a tierra. Ésta es una medida de seguridad. Si no puede insertar completamente la clavija en la toma de alimentación, comuníquese con un electricista para que le instale una toma adecuada. Intente contravenir esta medida de seguridad.

Sobrecarga

No sobrecargue las tomas de alimentación, las extensiones, ni tomacorrientes de derivación sobrepasando su capacidad, porque esto podría resultar en incendios o cortocircuitos.

Cuando vaya a dejar el televisor sin usar durante mucho tiempo, desconéctelo de la alimentación como protección contra la posibilidad de un mal funcionamiento interno que pudiese provocar el peligro de incendios.

Si un televisor en funcionamiento emite crujidos o detonaciones continuos o frecuentes, desconéctelo y consulte a su proveedor o a un radiotécnico. Es normal que algunos televisores produzcan estos ruidos, especialmente al conectar o desconectar su alimentación.



Introducción de objetos y líquidos

No introduzca objetos de ningún tipo a través de las ranuras del gabinete, ya que podrían tocar puntos de tensión peligrosa o cortocircuitar componentes, lo que podría resultar en incendios o descargas eléctricas. No derrame nunca ningún tipo de líquido sobre el televisor.



Limpieza

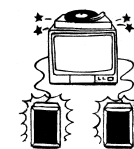
Antes de limpiar el televisor, desconéctelo de la alimentación. No utilice limpiadores líquidos ni aerosoles. Para limpiar el exterior del televisor, emplee un paño ligeramente humedecido en agua.



Instalación

Accesorios

No utilice ningún accesorio no recomendado por el fabricante, ya que podría ser peligroso.



Agua y humedad

No utilice aparatos que requieran de alimentación eléctrica cerca del agua — por ejemplo, cerca de una bañera, un lavabo, un fregadero o una lavadora, en un sótano húmedo, ni cerca de una piscina, etc.



Colocación

No coloque el televisor sobre una mesita con ruedas, un pedestal, una mesa o un estante inestable. El televisor podría caer, causando daños serios a niños, adultos y al propio televisor. Utilice solamente la mesita de ruedas o soporte recomendado por el fabricante para el modelo específico. Ninguna parte del televisor debe sobresalir por la orilla de la mesita o soporte, ya que esto representa un peligro. La combinación de un televisor y un mueble con ruedas deberá moverse con cuidado. Las paradas repentinas, la fuerza excesiva y las superficies desiguales podrían hacer que se cayese tal combinación.



Ventilación

Las ranuras y aberturas en la parte posterior o inferior del televisor son para permitir la ventilación necesaria. Para asegurar la operación fiable del televisor y protegerlo contra el sobrecalentamiento, estas ranuras y aberturas no deberán cubrirse ni obstruirse nunca.

- ☐ Nunca tape las ranuras ni aberturas con paños ni otros materiales.
- ☐ Nunca tape las ranuras ni aberturas colocando el televisor sobre una cama, sofá, alfombra u otras superficies similares.
- ☐ No coloque nunca el televisor en un lugar cerrado, como en un librero o un mueble empotrado, a menos que esté adecuadamente ventilado.
- ☐ No coloque el televisor cerca ni sobre un radiador o una salida de aire caliente, ni expuesto a la luz solar directa.



Protección del cable de alimentación

No permita que ningún objeto quede sobre el cable de alimentación, ni coloque el televisor donde el cable pueda quedar sometido a desgaste o presión.



Antenas

Conexión a tierra de la antena exterior

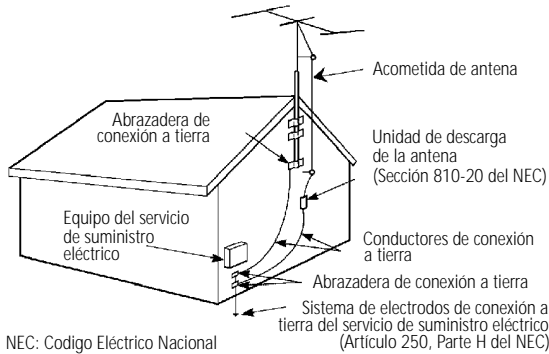
Cuando instale una antena exterior, tenga en cuenta las precauciones siguientes. Un sistema de antena exterior no deberá colocarse cerca de líneas de alta tensión ni otros circuitos de iluminación o alimentación, ni donde pueda entrar en contacto con tales líneas o circuitos.

CUANDO INSTALE UN SISTEMA DE ANTENA EXTERIOR, EXTREME LAS PRECAUCIONES PARA EVITAR QUE ENTRE EN CONTACTO CON TALES LÍNEAS DE ALIMENTACIÓN O CIRCUITOS, YA QUE TAL CONTACTO CASI SIEMPRE RESULTA FATAL.

Cerchiórese de que el sistema de antena esté puesto a tierra a fin de que proporcione cierta protección contra sobretensiones y cargas estáticas. La Sección 810 del Código Eléctrico Nacional (NEC) de EE.UU. y la Sección 54 del Código Eléctrico Canadiense ofrecen información con respecto a la puesta a tierra adecuada de una unidad de descarga de antena, el tamaño de los conductores de conexión a tierra, la ubicación de la unidad de descarga de la antena, la conexión de los electrodos de conexión a tierra y los requisitos de tales electrodos.

Conexión a tierra de la antena de acuerdo con el Código Eléctrico Nacional

Con respecto a la conexión a tierra de la antena, consulte la Sección 54-300 del Código Eléctrico Canadiense.



NEC: Código Eléctrico Nacional

Relámpagos

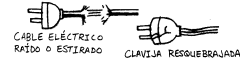
Para evitar daños al televisor debido a un relámpago o a una sobretensión de corriente durante una tormenta o cuando no se encuentre en uso por largos periodos de tiempo, desconecte el cable de la toma de corriente de la pared y desconecte la antena.

Mantenimiento

Daños que requieren reparación

Desconecte el televisor de la toma de alimentación y solicite los servicios de personal de reparación calificado en las condiciones siguientes:

- ☐ Cuando el cable o la clavija de alimentación esté dañado.



- ☐ Si dentro del televisor se ha derramado líquido.

- ☐ Si el televisor ha estado expuesto a la lluvia o al agua.



- ☐ Si el televisor ha recibido un golpe fuerte al caer, o se daña el gabinete.



- ☐ Si el televisor no funciona normalmente al seguir las instrucciones de operación. Ajuste solamente los controles especificados en el manual de instrucciones. El ajuste inadecuado de otros controles podría resultar en daños que podrían requerir la intervención de un técnico calificado a fin de devolver el televisor a su funcionamiento normal.



- ☐ Cuando el rendimiento del televisor haya cambiado notablemente — significará que es necesario repararlo.

Reparación

No intente reparar por sí mismo el aparato, ya que al abrir el gabinete se vería expuesto a tensiones peligrosas y otros riesgos. Solicite los servicios de personal de reparación calificado.



Piezas de repuesto

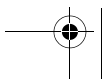
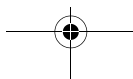
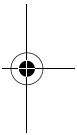
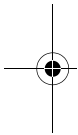
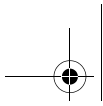
Cuando se haya requerido el reemplazo de piezas, solicite al técnico de reparación un certificado por escrito de que ha utilizado las piezas de repuesto con las mismas características que las originales, especificadas por el fabricante.

La sustitución no autorizada de piezas podría resultar en incendios, descargas eléctricas u otros peligros.

Comprobación de seguridad

Después de haber finalizado cualquier servicio de mantenimiento o reparación, solicite al técnico de reparación que realice y certifique las comprobaciones de seguridad rutinarias (como especifica el fabricante) para determinar si el televisor se encuentra en condiciones de funcionar con seguridad. Cuando finalice la vida útil del televisor, el deshacerse inadecuadamente de él podría provocar la implosión del cinescopio. Solicite este servicio a un técnico calificado.





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Uso de las funciones especiales

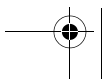
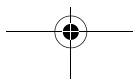
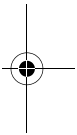
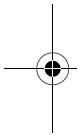
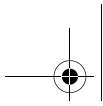
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Presentación del FD Trinitron Wega

Resumen

En este capítulo, se enumeran las funciones especiales de su televisor Wega y se explica cómo configurar y aprovechar las funciones básicas.

<i>Tema</i>	<i>Página</i>
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Presentación del FD Trinitron Wega

Funciones especiales del FD Trinitron Wega

El FD Trinitron Wega se caracteriza por su extraordinario contraste, su absoluta precisión y su singular nitidez de imagen, desde un extremo de la pantalla al otro.

Percibirá la superioridad de la tecnología Wega de inmediato. Lo primero que notará es que el cinescopio plano produce un mínimo de reflejos molestos. La tecnología basada en un cinescopio plano mejora la resolución de la imagen sin distorsiones, a diferencia de las pantallas curvas convencionales. El FD Trinitron ofrece un notable detalle de imagen no sólo en el centro de la pantalla, sino también en las esquinas, por lo que permite disfrutar de imágenes nítidas y brillantes desde cualquier lugar de la habitación.

Características especiales

A continuación se describen algunas de las funciones de las que podrá disfrutar con su nuevo televisor:

- ❑ **DRC (Creación de realidad digital):** Al contrario que los duplicadores de línea convencionales, la función DRC duplica las líneas verticales y horizontales, proporcionando una densidad cuatro veces mayor para fuentes de gran calidad como videodiscos, receptores satelitales y cámaras digitales de video.
- ❑ **Cinemotion:** Brinda una imagen de calidad óptima, detectando automáticamente el contenido de las películas y aplicando un proceso de despliegue 3/2. Las imágenes móviles revistan mayor claridad y naturalidad.
- ❑ **Imagen Gemela (Twin View™):** Mediante el uso de un controlador de imágenes múltiples (MIDX), Imagen Gemela permite ver dos programas, uno al lado del otro, con la posibilidad de ampliar una imagen. Es posible ver las imágenes de dos aparatos diferentes simultáneamente.
- ❑ **16:9 Realzado:** Tecnología de compresión vertical que permite una máxima resolución de la imagen proveniente de fuentes "anamórficas" o fuentes "realzadas para pantalla panorámica", incluyendo determinados videodiscos.
- ❑ **Modulación de velocidad:** Realce en las líneas verticales que agudiza la definición de la imagen.
- ❑ **Autovolumen:** Equilibra los niveles de volumen para proporcionar una salida uniforme entre programas y anuncios publicitarios.
- ❑ **Suprimir Canal:** Permite a los padres de familia impedir el acceso a hasta cuatro canales.
- ❑ **Entradas para componentes de video:** Ofrece la mejor calidad de video para la conexión de reproductores de videodiscos (480p, 480i) y receptores de señales digitales (HD 1080i).
- ❑ **Entradas S VIDEO:** Proporcionan imágenes de alta calidad provenientes de equipos conectados al televisor.
- ❑ **Vista preliminar de canales favoritos:** Vea hasta ocho de sus canales predilectos, sin dejar el canal actual.

Contenido de la caja

La caja contiene su nuevo televisor Trinitron, un control remoto y dos pilas AA, o sea, todo lo que necesita para instalar y usar el televisor en su configuración básica.

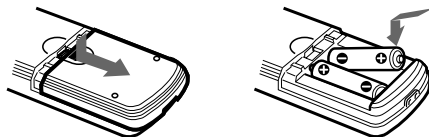
La mayor parte de los aparatos periféricos se surten con los cables que se necesitan para conectarlos al televisor. Si piensa conectar aparatos adicionales a su televisor, posiblemente sea necesario comprar cables o conectores adicionales. Conviene contar con todos los materiales necesarios antes de comenzar una instalación especial.

Uso del control remoto

El control remoto es el dispositivo principal para controlar el funcionamiento de su televisor. Úselo con cuidado, sin dejarlo caer ni mojar. No lo deje a la luz solar directa, cerca de un calentador ni en lugares muy húmedos.

Inserción de las pilas

Inserte dos pilas de tamaño AA (R6) (suministradas), asegurándose de que las polaridades + y - marcadas en las pilas correspondan al diagrama ubicado dentro del compartimiento de las pilas.

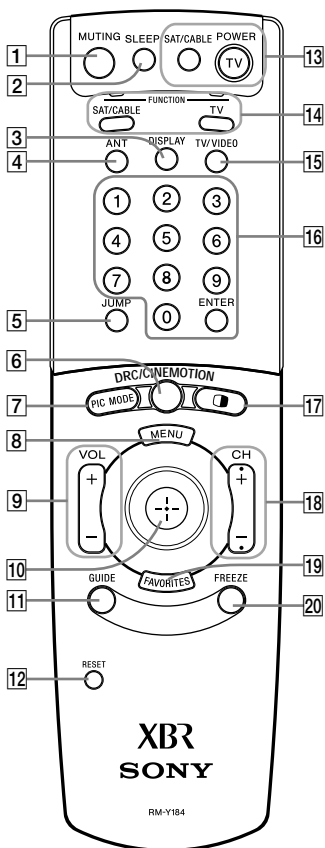



⚠ Cuando el control remoto no vaya a utilizarse durante un período prolongado, quite las pilas para evitar daños provocados por fugas de electrolito.


Presentación del FD Trinitron Wega


En la siguiente tabla se describen los botones del control remoto correspondientes a las funciones más avanzadas.

Descripción de los botones

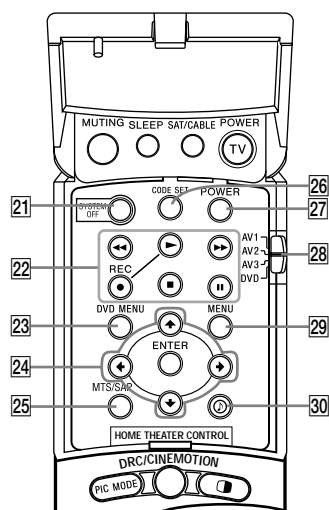


 Para explorar los canales rápidamente, oprima y mantenga oprimido el botón CH+ o CH-.

Botón	Descripción
1 MUTING	Oprima este botón para suprimir el sonido. Oprímalo de nuevo u oprima VOL + para recuperar el sonido.
2 SLEEP	Oprímalo varias veces hasta que el televisor muestre los minutos (15, 30, 45, 60, o 90) que desee que permanezca encendido antes de que se apague automáticamente. Para cancelar, oprímalo hasta que aparezca SLEEP NO. Con la función SLEEP activada, oprima SLEEP una vez para ver el tiempo restante.
3 DISPLAY	Oprímalo una vez para que aparezca en la pantalla la hora actual, el nombre del canal (si se ha definido) y número del canal. Oprímalo de nuevo para desactivar la indicación. Consulte la página 43 para obtener información detallada sobre el ajuste de la hora.
4 ANT	Cambia la entrada de VHF/UHF a la entrada AUX.
5 JUMP	Oprímalo para alternar entre dos canales. El televisor alterna entre el canal actual y el último seleccionado.
6 DRC/CINEMOTION	Con fuentes de video de alta calidad (p.ej., reproductor de videodiscos, receptor satelital), este botón recorre las diversas modalidades de imagen de alta resolución: Entrelazada, Progresiva, Cinemotion. También se puede ajustar mediante el menú Video. Para mayores detalles, consulte "Selección de opciones de Video" en la página 36.
7 PIC MODE	Oprímalo varias veces para recorrer las modalidades de imagen disponibles: Vívido, Estándar, Película, Pro. También disponibles en el menú Video. Para obtener información detallada, consulte "Selección de opciones de Video" en la página 36.
8 MENU	Oprímalo para ver el menú principal. Oprímalo de nuevo para salir de los menús.
9 VOL +/-	Ajusta el volumen.
10 	La perilla control permite desplazar el cursor en pantalla. Al oprimir el centro de la perilla, la opción se selecciona.
11 GUIDE	Muestra la guía de programas de la antena satelital.
12 RESET	Una vez abierto un menú, oprima este botón para restablecer los ajustes de fábrica correspondientes a ese menú.

<i>Botón</i>	<i>Descripción</i>
13 Botones POWER (VERDES)	Use estos botones para encender y apagar el televisor y los demás aparatos de audio o video para los cuales está programado el control remoto. Para instrucciones al respecto, consulte "Programación del control remoto" en la página 48.
14 Botones FUNCTION	Sirven para seleccionar el aparato (televisor o receptor satelital o cable) que se va a usar. Al oprimirse un botón, la luz se ilumina momentáneamente para indicar cuál aparato recibirá las señales del control remoto.
15 TV/VIDEO	Muestra, uno por uno, los aparatos de video conectados a la entrada para video del televisor: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6.
16 0 – 9 y ENTER	Oprima 0 – 9 para seleccionar un canal. El canal cambia tras 2 segundos. Oprima ENTER para seleccionar de forma inmediata.
17 	Activa/desactiva el modo Twin View. Para obtener información detallada, consulte "Uso de Imagen Gemela (Twin View)" en la página 31.
18 CH +/-	Explora los canales.
19 FAVORITES	Muestra la lista de Canales Favoritos. Para mayores detalles, consulte "Uso de Canal Favorito" en la página 30.
20 FREEZE	Congela la imagen secundaria. Oprímalo de nuevo para restaurar la imagen.

Presentación del FD Trinitron Wega (Continúa)



- | | | |
|-------|--|---|
| 21 | SYSTEM OFF | Apaga con un solo pulso todos los aparatos Sony. (Es posible que no tenga el efecto deseado con aparatos antiguos.) |
| <hr/> | | |
| 22 | CONTROLES PARA VIDEOCASETERA Y VIDEODISCOS | |
| | ◀◀ | Rebobinado |
| | REC | Grabación |
| | ▶▶ | Avance rápido |
| | ▶ | Reproducción |
| | ■ | Detener |
| | | Pausa |
| <hr/> | | |
| 23 | DVD MENU | Muestra el menú DVD. |
| <hr/> | | |
| 24 | ◀ ▶ ◂ ◃ y ENTER | Sirven para efectuar movimientos y selecciones en el menú en pantalla de los videodiscos. |
| <hr/> | | |
| 25 | MTS/SAP | Recorre las opciones de múltiples canales de sonido (MTS): Estereofónico, Auto-SAP (segundo programa de audio) y Monofónico. Para mayores detalles, consulte "Uso del menú Audio" en la página 38. |
| <hr/> | | |
| 26 | CODE SET | Se utiliza para programar el control remoto con el fin de utilizar equipos de video que no sean Sony. Para obtener información detallada, consulte "Programación del control remoto" en la página 48. |
| <hr/> | | |
| 27 | Boton POWER (VERDE) | Enciende y apaga la videocasetera o reproductor de videodiscos para el cual usted programó el control remoto. Para instrucciones al respecto, consulte "Programación del control remoto" en la página 48. |
| <hr/> | | |
| 28 | AV1
AV2
AV3
DVD | Utilicelo para cambiar el control del equipo de video conectado. Se puede programar una fuente de video para cada posición del selector (consulte "Programación del control remoto" en la página 48). |
| <hr/> | | |
| 29 | MENU | Muestra el menú ajustes del DVD. |
| <hr/> | | |
| 30 | 🎵 | Activa y desactiva Autovolumen. Para mayores detalles, consulte la página 38. |

Instalación del televisor

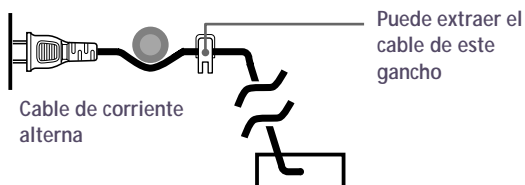
Resumen

En este capítulo se proporcionan instrucciones ilustradas para instalar el televisor:

<i>Tema</i>	<i>Página</i>
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Conexión de receptor satelital con videocasetera	20
Conexión de audio receptor	22
Conexión de reproductor de videodiscos con conectores para componentes de video	23
Conexión de reproductor de videodiscos con conectores de audio y video	24
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Conexión de cámara de video	26
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Nota sobre el cable eléctrico

El cable de corriente alterna se sujeta a la parte posterior del televisor con un gancho. Tenga cuidado al extraer la clavija de su compartimiento. Deslice la clavija con suavidad en sentido ascendente para extraerla del gancho. Una vez extraída, la clavija debe desacoplarse automáticamente del sitio en el que está alojada.

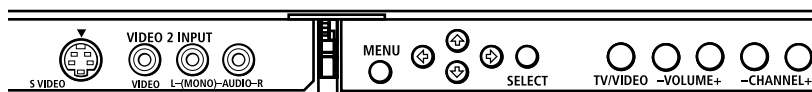


Instalación del televisor

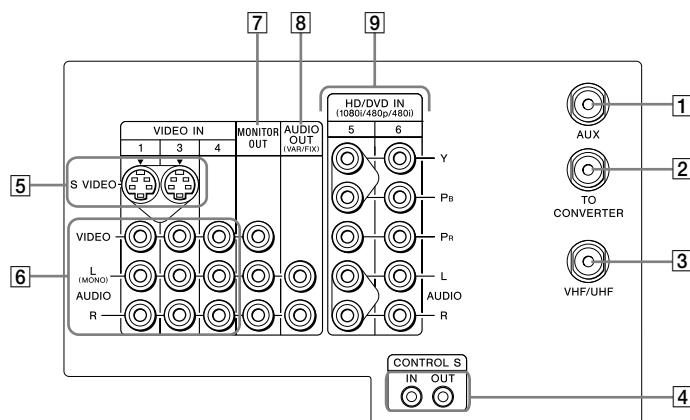
Controles y conectores del televisor

Controles de menú en la parte delantera del televisor

Los controles de menú en la parte delantera del televisor dan acceso a los menús en pantalla sin necesidad de utilizar el control remoto. Los menús en pantalla aparecen al oprimir el botón MENU. Los botones de flecha mueven el cursor por los menús y el botón SELECT permite seleccionar opciones de menú.



Parte posterior del televisor



Conexión	Descripción
1 AUX	Le permite ver los canales locales y de cable si su servicio de cable no ofrece los canales locales. Puede usted cambiar fácilmente entre los canales locales y los del cable, oprimiendo ANT en el control remoto. Los aparatos conectados a la entrada AUX no podrán verse en la ventanilla derecha de Imagen Gemela.
2 TO CONVERTER	Ésta es una salida de VHF/UHF que le permite programar su televisor para cambiar entre canales codificados (mediante decodificador) y los canales normales de televisión por cable. Use esta salida en lugar de un bifurcador para obtener una mejor calidad de imagen cuando sea necesario cambiar entre canales de cable codificados y decodificados.
3 VHF/UHF	Se conecta a la antena VHF/UHF o cable.

Conexión	Descripción
4 CONTROL S IN/OUT	Permite al televisor recibir (IN) y enviar (OUT) señales infrarrojas de control remoto a otros equipos Sony de audio o video controlados mediante Control S.
5 S VIDEO	Se conecta con la salida S VIDEO OUT de su videocasetera o de otro aparato de video que cuente con la función S VIDEO. Da una mejor calidad de imagen que las salidas VHF/UHF o la entrada de Video.
6 VIDEO/AUDIO [L (mono)/R]	Se conectan con las salidas de audio y video de su videocasetera o de otro aparato de video. En la parte delantera del televisor, se encuentra una entrada de video (VIDEO 2). Las entradas de Audio y Video dan una mejor calidad de imagen que la entrada VHF/UHF.
7 MONITOR OUT (Salida a monitor)	Permite grabar en videocasetera el programa que esté viendo en el televisor. Si conecta dos videocaseteras, podrá utilizar el televisor como monitor para el montaje de cintas. (no funciona con 480p o 1080i al recibirse en VIDEO 5 o 6.)
8 AUDIO OUT (VAR/FIX) L (MONO)/R [SALIDA DE AUDIO (VAR/FIJO) Izq (MONOFÓNICO)/Der]	Se conecta a las entradas izquierda y derecha de audio del componente de video o de audio.
9 HD/DVD IN (1080i/480i/480p) [ENTRADA DE HD/DVD (1080i/480i/480P)]	Se conecta a las salidas de audio (izquierda, derecha) y de componente de video (Y, Pb, Pr) del reproductor de videodiscos o de su receptor digital.

Instalación del televisor

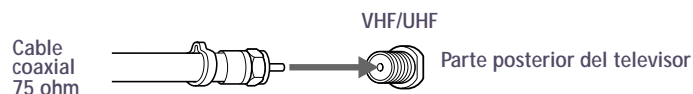
Conexiones básicas (Conexión del sistema de cable o la antena)

Conexión directa a cable o a antena

La conexión que escoja depende del tipo de cable con que cuente su casa.

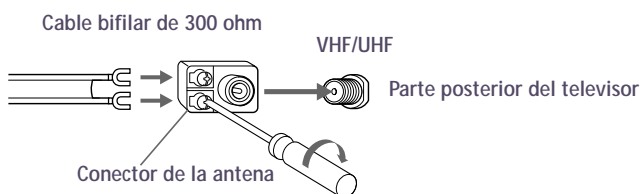
Las casas más nuevas generalmente están equipadas con cable coaxial:

VHF solamente o VHF/UHF o cable



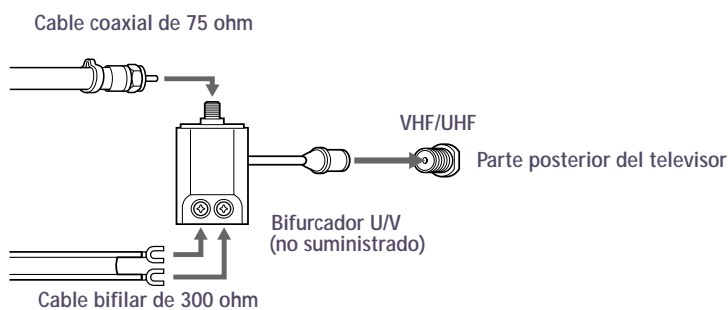
Las casas más viejas pueden tener cable bifilar de 300 ohm:

VHF solamente o UHF solamente o VHF/UHF



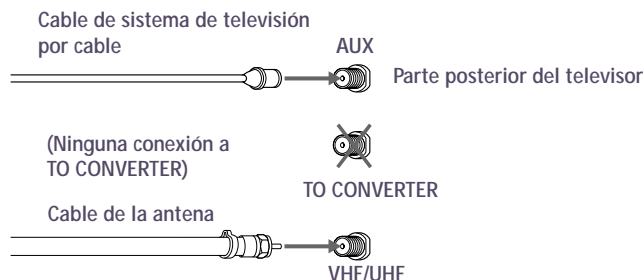
Es posible que algunas casas tengan los dos tipos de cable:

VHF y UHF



Cable y antena

Si su sistema de televisión por cable no incluye canales locales, esta instalación puede resultarle útil.



Active la modalidad de CABLE o antena (ANT) oprimiendo ANT en el control remoto.

Para captar canales mediante la antena en vez del sistema de cable:

- 1 Seleccione la modalidad de antena, oprimiendo el botón ANT del control remoto.
- 2 Desactive el cable (consulte la página 40).
- 3 Lleve a cabo la Autoprogramación (consulte la página 40).

Conexiones básicas del decodificador

Decodificador y cable

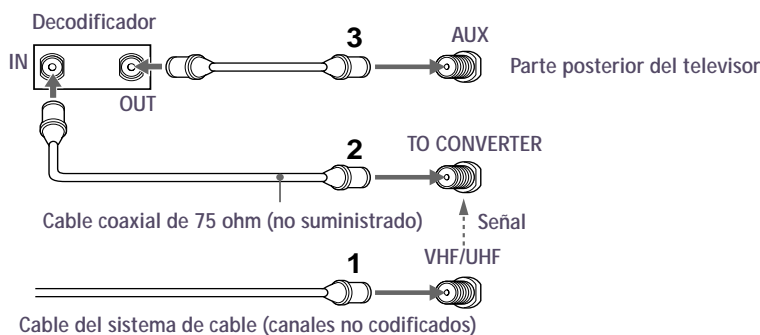
Esta es la conexión básica de cable que se prefiere si su compañía de televisión por cable codifica algunos canales, pero no todos (canales de paga y canales normales) y usted necesita utilizar un decodificador.

Con esta conexión usted puede:

- ☐ Usar el control remoto de su televisor para cambiar canales a través del decodificador, cuando la señal se encuentre codificada.
- ☐ Usar el control remoto para cambiar canales a través de su televisor, cuando la señal no se encuentre codificada. (El sintonizador de su televisor proporciona una mejor señal que el decodificador.)
- ☐ Usar la función Imagen Gemela. (Cuando todos los canales pasan a través de su decodificador, sólo una señal es enviada al televisor, lo que le impide disfrutar de la función Imagen Gemela.)
- ☐ Usar la función Imagen Gemela normalmente con la entrada del sistema de televisión por cable.
- ☐ Usar la función Imagen Gemela parcialmente con el decodificador. (Al cambiar el televisor a la entrada AUX –para usar el decodificador– se verá la imagen decodificada proveniente del decodificador. Se podrán ver en la ventanilla izquierda de Imagen Gemela las imágenes tanto de la entrada AUX como de la entrada VHF/UHF, pero en la ventanilla derecha aparecerá sólo la imagen proveniente de la entrada VHF/UHF.)

Para que su televisor reciba señales tanto de un decodificador como de una conexión directa al sistema de televisión por cable:

- 1 Conecte el cable del servicio de televisión por cable a la entrada VHF/UHF de su televisor.
- 2 Usando un cable coaxial, conecte la salida de su televisor que dice TO CONVERTER [al convertidor] con la entrada IN en su decodificador. El convertidor interno de su televisor le permite cambiar entre señales no codificadas que entren directamente al televisor y las señales codificadas que entren a través del decodificador. Esto elimina la necesidad de un bifurcador externo.
- 3 Usando un cable coaxial, conecte la salida OUT del decodificador con la entrada AUX del televisor.



Para cambiar entre los canales del decodificador y los que llegan directamente del cable al televisor:

- ☐ Oprima el botón ANT del control remoto.

Para usar el control remoto del televisor con el fin de cambiar los canales del decodificador:

- ☐ Programe el control remoto según sea necesario. (Consulte "Programación del control remoto", en la página 48.)

Para ver los canales de cable a través del decodificador:

- ☐ Ponga el televisor en el canal 3 ó 4 (según el caso) y luego utilice el decodificador para cambiar los canales.

Para evitar que se cambie el canal del televisor sin querer:

- ☐ Al usar una videocasetera o el decodificador, se necesita que el televisor siempre esté puesto en el mismo canal. Se puede aprovechar la función Fijar Canal con este fin. Fijar Canal es una opción del menú Canal. (Consulte "Uso del menú Canal", en la página 40.)

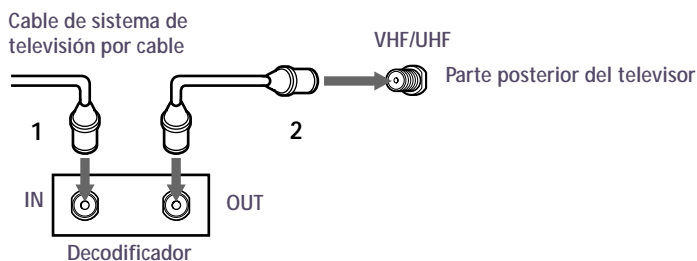
Únicamente decodificador

Use esta conexión si:

- ☐ Está suscrito a un sistema de televisión por cable con señales codificadas, que requieren un decodificador para poder ver todos los canales, y
- ☐ No tiene pensado conectar otro equipo de audio o video a su televisor.

Cuando todos los canales pasan a través de su decodificador, se envía un solo canal decodificado al televisor, lo que le impide utilizar la función Imagen Gemela. Si sólo algunos de sus canales se encuentran codificados, posiblemente prefiera la instalación descrita en la página 12.

- 1 Conecte el conector coaxial del servicio de cable a la entrada IN del decodificador.
- 2 Con un cable coaxial, conecte la salida OUT del decodificador a la entrada VHF/UHF del televisor.



Para ver los canales de cable a través del decodificador:

- ☐ Ponga el televisor en el canal 3 ó 4 (según el caso) y luego utilice el decodificador para cambiar los canales.

Para usar el control remoto del televisor con el fin de cambiar los canales del decodificador:

- ☐ Programe el control remoto según sea necesario. (Consulte "Programación del control remoto", en la página 48.)

Para evitar que se cambie el canal del televisor sin querer:

- ☐ Se puede aprovechar la función Fijar Canal con este fin. Fijar Canal es una opción del menú Canal. (Consulte "Uso del menú Canal", en la página 40.)

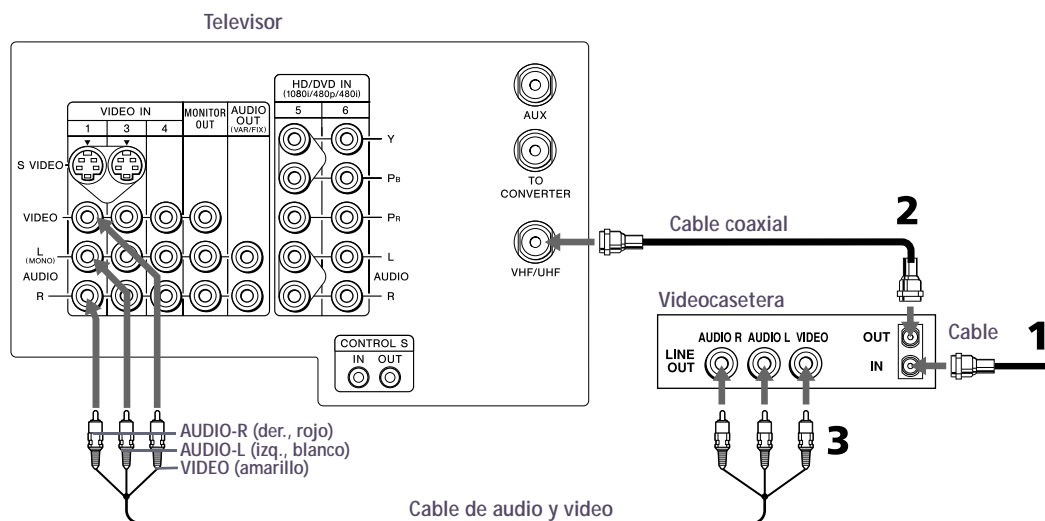
Instalación del televisor

Conexión de videocasetera y cable

Use esta conexión si recibe servicio de televisión por cable que no requiere decodificador:

- 1 Conecte el cable del sistema de televisión por cable a la entrada (IN) de la videocasetera.
- 2 Con un cable coaxial, conecte la salida (OUT) de la videocasetera a la entrada VHF/UHF del televisor.
- 3 Con un cable de audio y video, conecte las salidas Audio y Video OUT de la videocasetera a las entradas Audio y Video IN del televisor.

Si su videocasetera cuenta con conectores de S VIDEO, se puede usar un cable de S VIDEO para lograr mejor calidad de imagen que la que ofrece el cable amarillo de video de un cable combinado de audio y video. Ya que un cable de S VIDEO lleva sólo la señal de video, seguirán siendo necesarios los cables de audio, para contar con sonido.



Conexión de videocasetera y decodificador

Use esta es la conexión si:

- ☐ Su compañía de televisión por cable codifica algunos canales (canales de paga), mas no todos (canales normales) y usted necesita utilizar un decodificador, y
- ☐ Quiere disfrutar de la función Imagen Gemela.

Con esta conexión usted puede:

- ☐ Usar el control remoto de su televisor para cambiar canales a través del decodificador, cuando la señal se encuentre codificada.
- ☐ Usar el control remoto para cambiar canales a través de su televisor, cuando la señal no se encuentre codificada. El sintonizador de su televisor proporciona una mejor señal que el decodificador.
- ☐ Usar la función Imagen Gemela.
- ☐ Grabar tanto canales normales de televisión por cable como canales codificados.

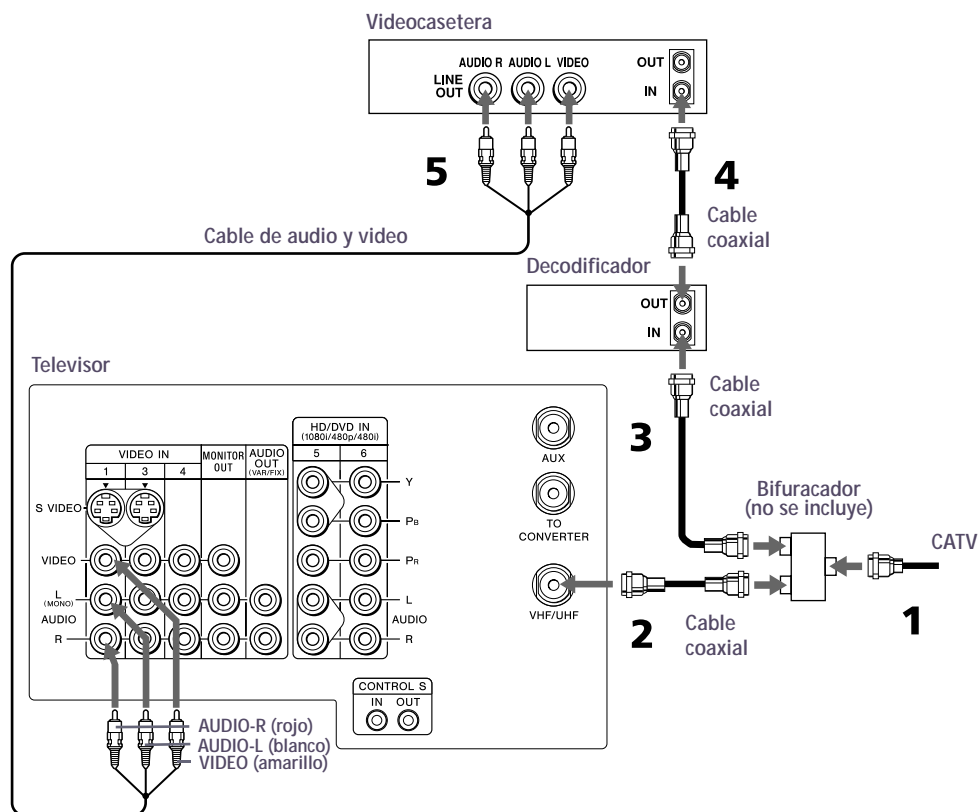
Para conectar un decodificador y una videocasetera, se necesitarán:

- ☐ Un pequeño dispositivo, de costo módico, denominado bifurcador.
 - ☐ Tres cables coaxiales.
 - ☐ Un cable combinado para audio y video o un cable S VIDEO y cables de audio.
- 1 Conecte el cable del sistema de televisión por cable a la entrada única del bifurcador.
 - 2 Utilice un cable coaxial para conectar una de las dos salidas del bifurcador con la entrada para VHF/UHF del televisor.
 - 3 Utilice un cable coaxial para conectar la otra salida del bifurcador con la entrada del decodificador.
 - 4 Utilice un cable coaxial para conectar la salida del decodificador a la entrada de la videocasetera.
 - 5 Utilice el cable de video (amarillo) de un cable combinado de audio y video para conectar la salida de video de la videocasetera con la entrada de video del televisor.



Si la videocasetera cuenta con conectores de S VIDEO, se puede usar un cable de S VIDEO en vez del cable de video que forma parte de un cable combinado para audio y video. El cable S VIDEO brindará una señal de video de mejor calidad. Ya que un cable de S VIDEO lleva sólo la señal de video, seguirán siendo necesarios los cables de audio, para contar con sonido.

Conecte los canales de salida de audio izquierdo (blanco) y derecho (rojo) de la videocasetera con los respectivos canales de entrada del televisor.



Para cambiar entre los canales del decodificador y los que llegan directamente del cable al televisor:

- ☐ Oprima el botón TV/VIDEO del control remoto.

Para ver los canales de cable a través del decodificador:

- ☐ Ponga el televisor en el canal 3 ó 4 (según el caso) y luego utilice el decodificador para cambiar los canales.

Para usar el control remoto del televisor con el fin de cambiar los canales del decodificador:

- ☐ Programe el control remoto según sea necesario. (Consulte "Programación del control remoto", en la página 48.) Entonces utilice el control remoto para cambiar los canales del decodificador.

Para usar Imagen Gemela con el decodificador

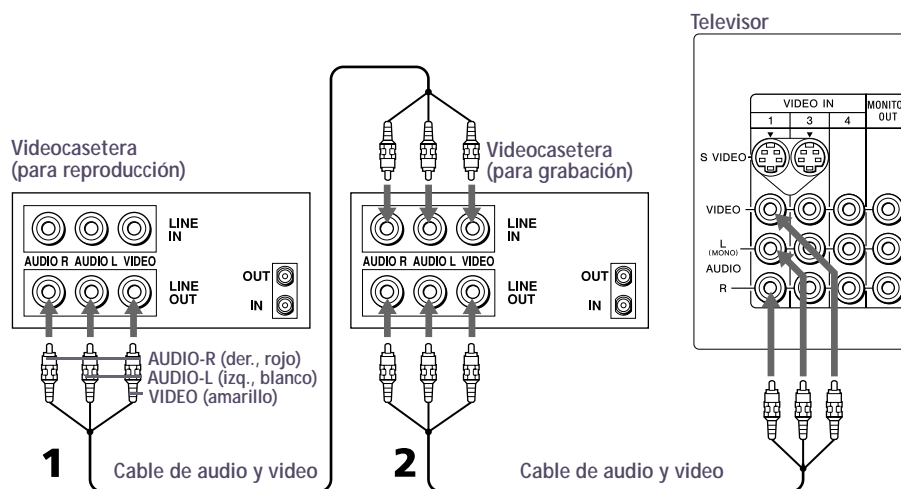
- ❑ Encienda la videocasetera. (El sintonizador de la videocasetera servirá como una de las fuentes de imágenes para Imagen Gemela. Si no se enciende la videocasetera, no funcionará Imagen Gemela.) Utilice el botón TV/VIDEO del control remoto para cambiar la salida de Imagen Gemela a VIDEO 1. Cambie el canal correspondiente a una de las imágenes mediante el decodificador.

Instalación del televisor

Conexión de dos videocaseteras para grabado de cintas

Si conecta dos videocaseteras entre sí antes de conectarlos al televisor, podrá cambiar entre una y la otra para tener la seguridad que lo que está pasando en una está grabándose en la otra (según se muestra abajo).

- 1 Con un cable de audio y video, conecte las salidas Audio y Video OUT de la videocasetera reproductora con las entradas Audio y Video IN de la videocasetera en que se va a efectuar la grabación.
- 2 Con un cable de audio y video, conecte las salidas Audio y Video OUT de la videocasetera que se usará para grabar con las entradas Audio y Video IN del televisor.




Cambiar la entrada de video de la videocasetera

- ☐ Consulte las instrucciones que aparecen en el manual de la videocasetera.


Para ver lo que se está grabando

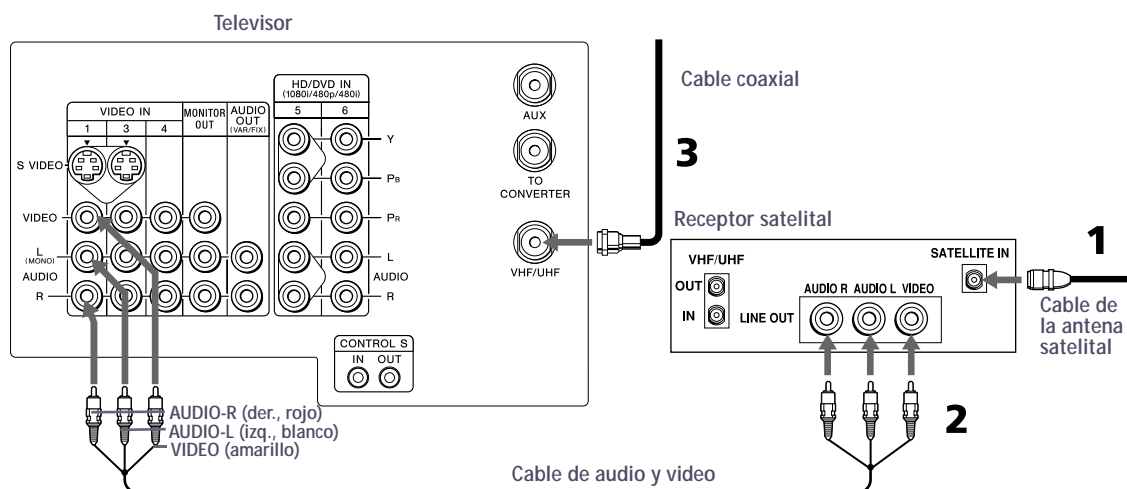
- ☐ Utilice el control remoto para cambiar el televisor a la entrada de video a la cual está conectada la videocasetera (VIDEO 1 en el caso del dibujo anterior).

 Si las dos videocaseteras cuentan con conectores de S VIDEO, se pueden usar cables de S VIDEO para lograr mayor calidad de imagen que la que ofrece un cable combinado para audio y video. Ya que los cables de S VIDEO llevan sólo la señal de video, seguirán siendo necesarios cables de audio, para contar con sonido.

Conexión de receptor de satelital

- 1** Conecte el cable de la antena de satelital a la entrada SATELLITE IN del receptor satelital.
- 2** Con un cable de audio y video, conecte las salidas Audio y Video OUT del receptor satelital a las entradas Audio y Video IN del televisor.
- 3** Conecte un cable coaxial de su sistema de cable o antena a la entrada VHF/UHF del televisor.

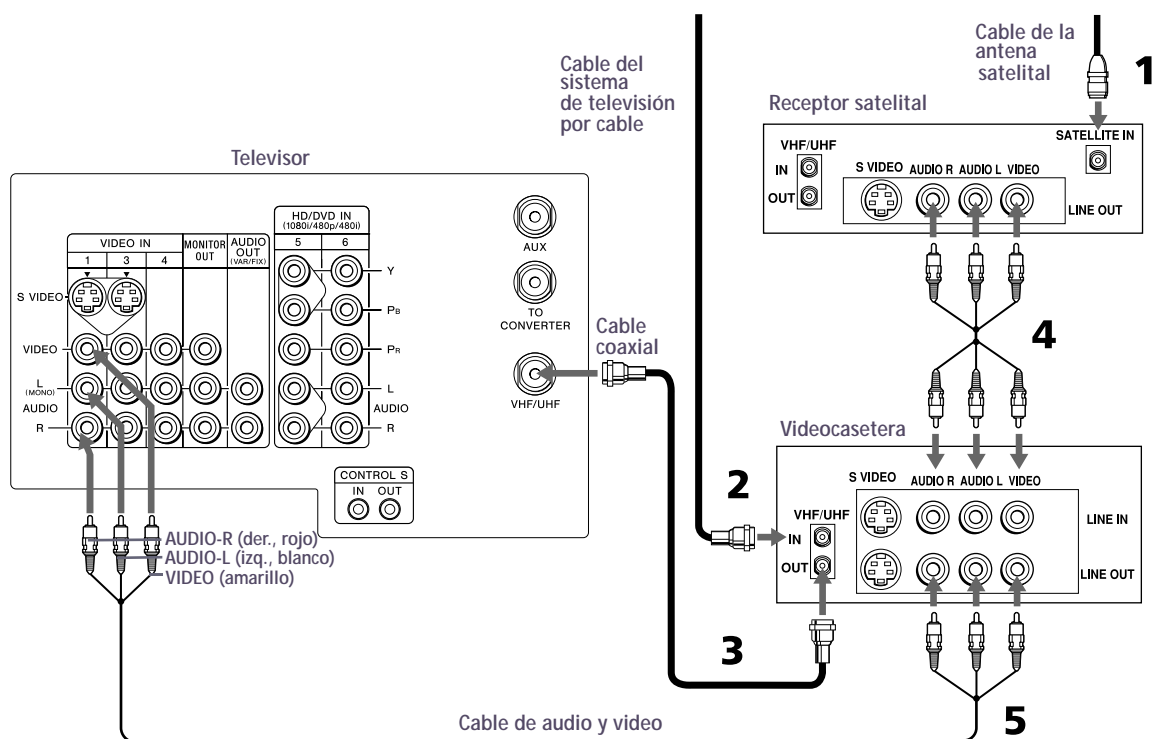
 Si el receptor cuenta con conectores de S VIDEO, se puede usar un cable de S VIDEO para lograr mayor calidad de imagen que la que ofrece un cable combinado para audio y video. Ya que los cables de S VIDEO llevan sólo la señal de video, seguirán siendo necesarios cables de audio, para contar con sonido.



Instalación del televisor

Conexión de receptor satelital con videocasetera

- 1 Conecte el cable de la antena satelital a la entrada SATELLITE IN del receptor satelital.
- 2 Conecte el cable del sistema de televisión por cable a la entrada VHF/UHF IN de la videocasetera.
- 3 Con un cable coaxial, conecte la salida (OUT) de la videocasetera a la entrada VHF/UHF del televisor.
- 4 Con un cable de audio y video, conecte las salidas Audio y Video OUT del receptor satelital a las entradas Audio y Video IN de la videocasetera.
- 5 Con un cable de audio y video, conecte las salidas Audio y Video OUT de la videocasetera a las entradas Audio y Video IN del televisor.



Si los aparatos que va a conectar al televisor cuentan con conectores de S VIDEO, se pueden usar cables de S VIDEO para lograr mayor calidad de imagen que la que ofrece un cable combinado para audio y video. Ya que los cables de S VIDEO llevan sólo la señal de video, seguirán siendo necesarios cables de audio, para contar con sonido.

- 6** De ser necesario, cambie la entrada de video de la videocasetera.
(Consulte las instrucciones que aparecen en el manual de la videocasetera.)

Para ver la televisión por satélite o la videocasetera

- ☐ Oprima el botón TV/VIDEO del control remoto para escoger una fuente de video.

Para ver la televisión por cable

- ☐ Oprima el botón TV/VIDEO del control remoto para seleccionar VHF/UHF (a fin de que la señal del cable entre al televisor).

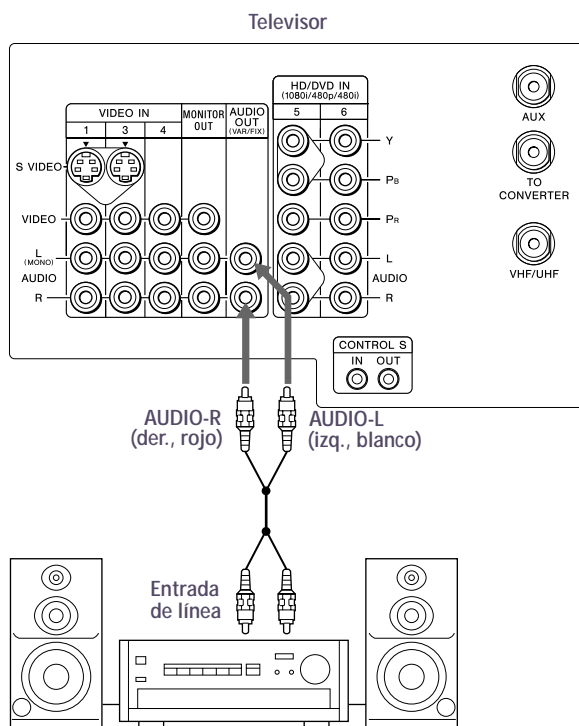
Instalación del televisor

Conexión de audio receptor

Para mayor calidad de sonido, posiblemente desee pasar las señales de audio del televisor a su estéreo.

Para conectar un audio receptor

- Use cables de audio para conectar las salidas Audio OUT del televisor a las entradas LINE IN del audio receptor.



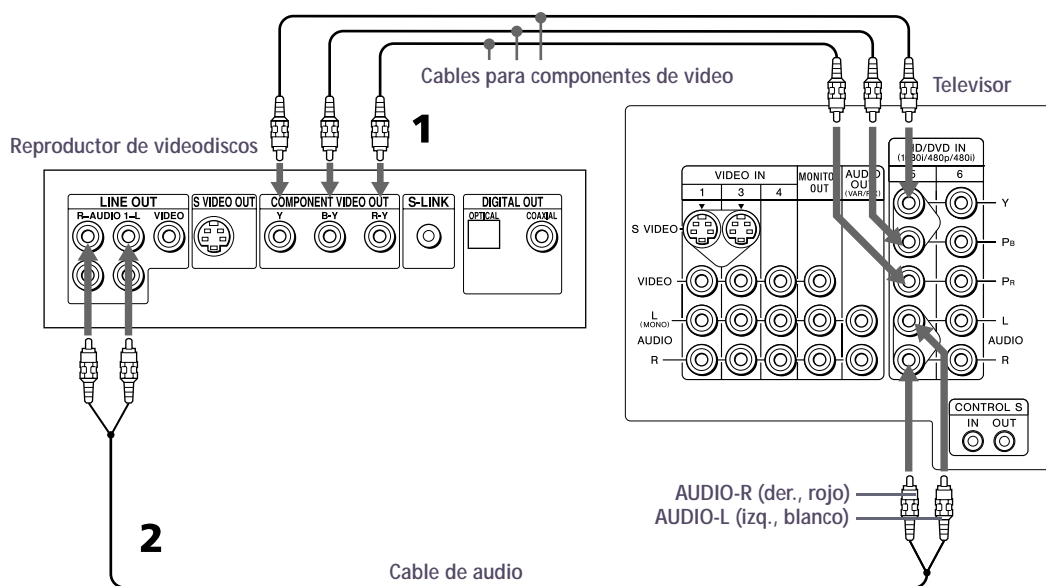
Conexión de reproductor de videodiscos con conectores para componentes de video

Esta es la conexión preferida si su reproductor de videodiscos tiene entradas para componentes (Y, PB, PR).

- 1 Con tres cables de video de componente independientes, conecte las salidas Y, PB y PR del reproductor de videodiscos a las entradas Y, PB y PR del televisor. Use las conexiones HD/DVD IN 5 ó 6.

Las salidas Y, PB y PR de algunos reproductores de videodiscos se designan Y, CB y CR, o Y, B-Y y R-Y. En este caso, conecte los cables a los conectores que presenten los mismos colores.

- 2 Con un cable de audio, conecte las salidas (OUT) de audio del reproductor de videodiscos a las entradas (IN) de audio del televisor. Asegúrese de usar la misma hilera de entradas que utilizó para la conexión de video (HD/DVD IN 5 ó 6).



No se pueden usar las salidas MONITOR OUT para grabar la señal proveniente de un aparato conectado a las entradas Y, PB, PR.

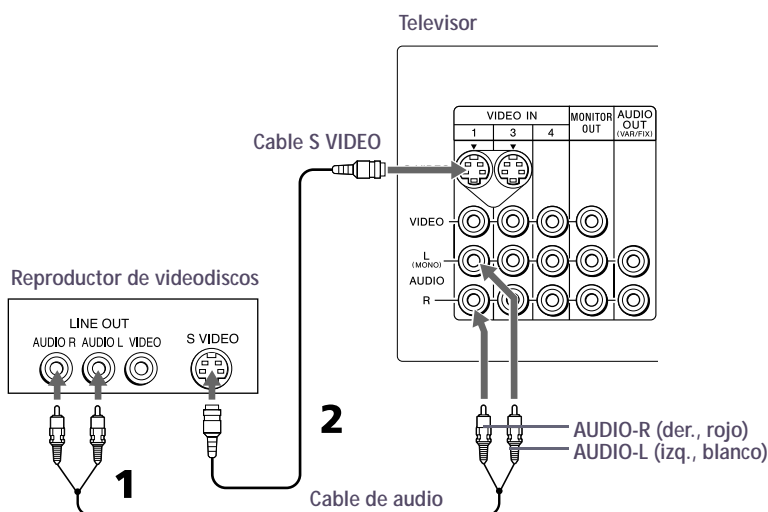
Instalación del televisor

Conexión de reproductor de videodiscos con conectores de audio y video

Esta es la conexión preferida si su reproductor de videodiscos no tiene entradas para componentes (Y, PB, PR).

Una conexión mediante S VIDEO resultará en una señal de video de buena calidad, pero si su reproductor de videodiscos cuenta con salidas para componentes de video, éstas producirán una señal aun mejor (mediante la conexión descrita en la página anterior).

- 1 Con cables de audio, conecte las salidas (OUT) de audio del reproductor de videodiscos a las entradas (IN) de audio del televisor.
- 2 Con un cable S VIDEO, conecte la salida S VIDEO del reproductor de videodiscos a la entrada S VIDEO del televisor.



Para cambiar entre el televisor y el reproductor de videodiscos

- Utilice el botón TV/VIDEO del control remoto para cambiar de un aparato de entrada a otro.

Conexión de receptor de televisión digital



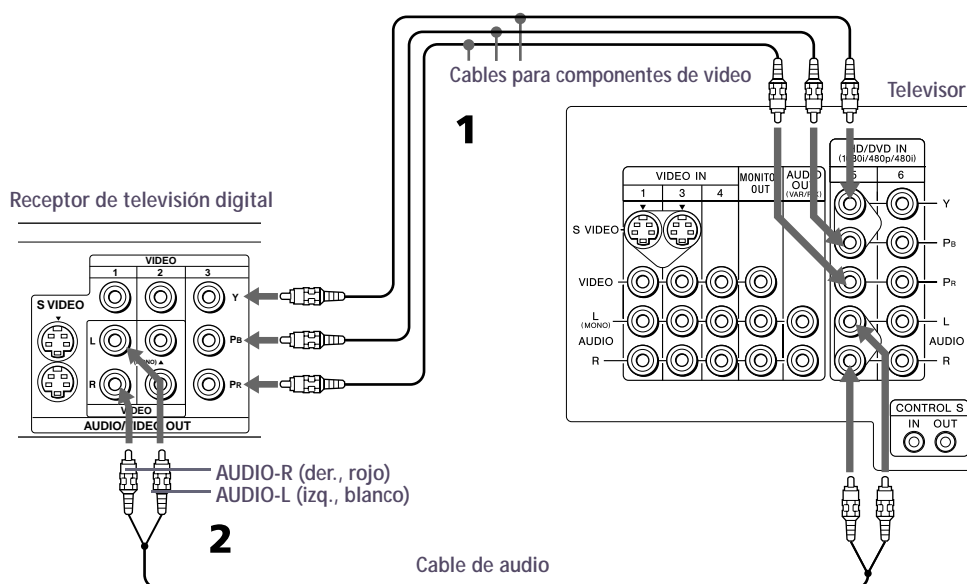
No olvide leer el manual del receptor de televisión digital.

- 1 Con tres cables de video de componente independientes, conecte al televisor las salidas Y, Pb y Pr del receptor de televisión digital.



Si prefiere, puede utilizar un cable de S VIDEO en lugar de los conectores Y, Pb y Pr. Los conectores Y, Pb y Pr brindarán la mejor calidad de imagen, pero no se pueden grabar las señales recibidas mediante entradas de Y, Pb y Pr.

- 2 Con un cable de audio, conecte las salidas (OUT) de audio del receptor de televisión digital a las entradas (IN) de audio del televisor.

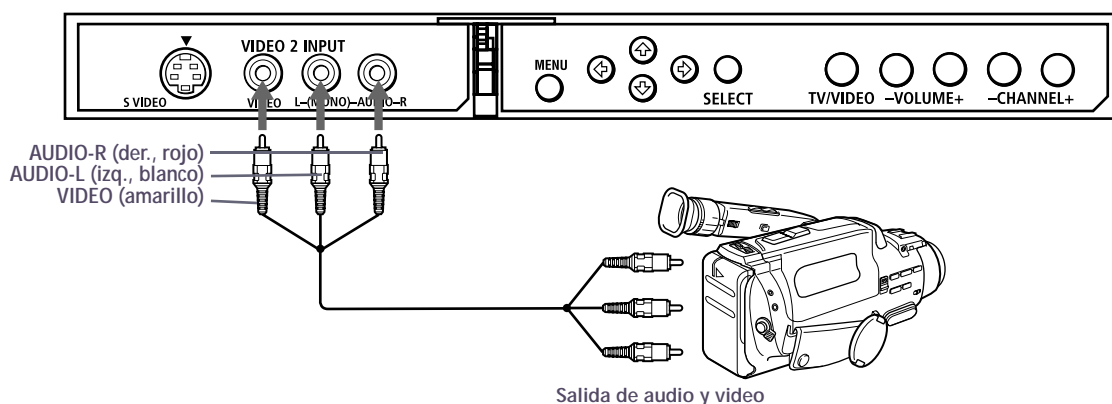


Instalación del televisor


Conexión de cámara de video

Para facilitar la conexión de la cámara de video, la parte delantera del televisor cuenta con entradas para audio y video (según se muestra abajo). Sin embargo, si prefiere, puede conectar la cámara a las entradas AUDIO y VIDEO IN en la parte posterior del televisor.

- 1 Con cables de audio y video, conecte las salidas Audio y Video OUT de la cámara de video a las entradas Audio y Video IN del televisor.



Si tiene cámara de video monofónica, conecte la salida de audio de la cámara a la entrada AUDIO-L (izquierda) del televisor.

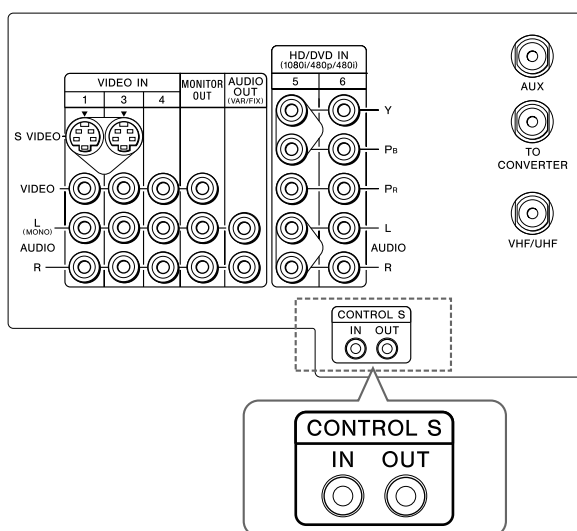
 Si la cámara cuenta con salida de S VIDEO, se puede usar un cable de S VIDEO para lograr mayor calidad de imagen que la que ofrece un cable combinado para audio y video. Ya que los cables de S VIDEO llevan sólo la señal de video, seguirán siendo necesarios cables de audio, para contar con sonido.

Para ver la salida de la cámara

- ☐ Use el botón TV/VIDEO en la cara del televisor (o en el control remoto) para cambiar el televisor a la entrada de video a la cual está conectada la videocámara (VIDEO 2 en el dibujo anterior).

Uso de la función CONTROL S

CONTROL S permite controlar el sistema de televisión y otros aparatos Sony (p.ej. reproductor de videodiscos o videocasetera) con un solo control remoto del televisor. Además de no tener que usar varios controles remotos, con CONTROL S podrá apuntar el control remoto siempre al televisor, en vez de tener que apuntarlo a veces a los demás aparatos, los que ahora podrán quedar ocultos o fuera del alcance del control remoto.



Instalación del televisor

Programación automática del televisor

Una vez conectado el televisor, se debe usar la función de Autoajustes para identificar los canales que se sintonizarán. Al encender su televisor por primera vez después de instalarlo, aparecerá la pantalla de ajustes automáticos. Si no desea seleccionar los canales en ese momento, podrá programarlos posteriormente a través de la función de Autoprogramación que aparece en el menú Canal (consulte la página 40).



No se usa la función de Autoajustes en las instalaciones que utilizan un decodificador para la selección de todos los canales.

Uso de Autoajustes

- 1 Encienda el televisor.
- 2 Oprima el botón TV FUNCTION del control remoto.
- 3 Oprima CH+ para iniciar Autoajustes.
- 4 Una vez terminado Autoajustes, oprima CH- para salir.

Para restablecer los ajustes de fábrica

Para restablecer los ajustes de fábrica

- 1 Encienda el televisor.
- 2 Mantenga oprimido el botón RESET del control remoto.
- 3 Oprima y suelte el botón POWER (encendido) en el televisor. (El televisor se apagará y luego volverá a encenderse.)
- 4 Suelte el botón RESET.

Uso de las funciones especiales

Resumen

En este capítulo se describe cómo utilizar las funciones nuevas del televisor:

<i>Tema</i>	<i>Página</i>
Uso de Canal Favorito	30
Uso de Imagen Gemela (Twin View)	31
Uso de Congelación	34

Uso de las funciones especiales

Uso de Canal Favorito


La función Canal Favorito permite seleccionar programas de una lista de canales favoritos definida por usted.

Para ver la lista de canales favoritos:

- 1 Si no lo ha hecho ya, defina su lista de canales favoritos. (Vea la descripción de Canal Favorito bajo el encabezado “Selección de opciones de Canal”, en la página 40.)
- 2 Oprima el botón FAVORITES del control remoto.



Aparece una vista preliminar

- 3 Mueva la perilla control hacia arriba (▲) o hacia abajo (▼) para hacer resaltar el canal que desee ver. El programa en ese canal aparecerá en la ventanilla de la vista preliminar.
- 4 Oprima  para seleccionarlo.

Uso de Imagen Gemela (Twin View)

Imágenes — de la antena, una videocasetera, un videodisco, etc.— simultáneamente. (Sin embargo, se oye el sonido correspondiente a sólo una de las imágenes, la que usted prefiera.) Se puede cambiar el tamaño relativo de cada imagen.



Visualización de Imagen Gemela

Para ver imágenes gemelas

- 1 Oprima el botón  del control remoto. (Aparece una ventanilla con la segunda imagen.)



- 2 Para cancelar Imagen Gemela


- ☐ Oprima el botón  u
- ☐ Oprima el botón .

Uso de las funciones especiales

Activación de la imagen

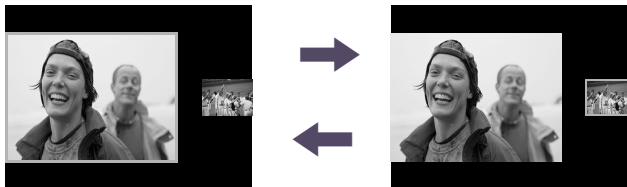
Aunque aparecen dos imágenes en pantalla simultáneamente, sólo una de la caja azul es activa. Respecto a la imagen activa, se puede:

- ☐ Cambiar de canal.
- ☐ Ajustar el volumen.
- ☐ Cambiar las fuentes de entrada de VHF/UHF a cable, oprimiendo TV/VIDEO para cambiar la entrada de video.
- ☐ Cambiar las dimensiones de la imagen, utilizando la perilla control (▲/▼).

 Al activarse Imagen Gemela, por lo general, las dimensiones de las imágenes serán las mismas que la última vez que estuvo activa. Sin embargo, tratándose de una imagen 16:9, esa proporción cambia a 4:3 en la ventanilla de la imagen secundaria.

Para activar la imagen derecha

- ☐ Mueva la perilla control a la derecha (ya no lo oprima).



Para activar la imagen izquierda

- ☐ Mueva la perilla control a la izquierda (ya no lo oprima).

Al usar Imagen Gemela, tenga en cuenta que:

- ☐ Un aparato conectado a las entradas AUX y HD/DVD IN (números 5 y 6) no podrá verse en la ventanilla derecha de Imagen Gemela.

Cambio del tamaño de la imagen

La función de acercamiento permite cambiar el tamaño relativo de las imágenes izquierda y derecha.

- 1 Activar la imagen izquierda (si aún no está activada).
- 2 Oprima la perilla control hacia arriba ▲ para ampliar la imagen.
- 3 Oprima la perilla control hacia abajo ▼ para reducir la imagen.



Al ajustar el tamaño de las pantallas gemelas, el televisor memoriza el cambio. La próxima vez que utilice la función Imagen Gemela, aparecerán los tamaños memorizados.

Uso de las funciones especiales

Uso de Congelación

El botón FREEZE permite capturar temporalmente la imagen de un programa. Puede utilizar esta función para anotar información, como números de teléfono, recetas de cocina, etc.

Funcionará la congelación de la imagen únicamente con la imagen normal. No funcionará si Imagen Gemela está activada.

Para "congelar" la imagen

- 1 Cuando aparezca la información que desee capturar, oprima el botón FREEZE.
- 2 El televisor cambia a Imagen Gemela y muestra la imagen "congelada" a la derecha, mientras el programa actual continúa a la izquierda.




- 3 Para cancelar y volver a la imagen normal, oprima el botón FREEZE.







Uso de los menús

Resumen

Para abrir y escoger un menú:

- 1 Oprima MENU para que aparezca la pantalla del menú.
- 2 Mueva la perilla control para llegar al icono deseado en el menú. Oprima  para seleccionarlo.
- 3 Use la perilla control para desplazarse a través de las diversas funciones.
- 4 Vea la página correspondiente a cada menú para mayores instrucciones sobre cómo desplazarse.

El menú proporciona acceso a las siguientes funciones:

Icono de menú	Descripción	Página
	VIDEO le permite realizar ajustes a la imagen. También permite personalizar la imagen de acuerdo con el tipo de programa que esté viendo.	36
	AUDIO ofrece opciones avanzadas de audio, como escuchar un segundo programa de sonido (SAP) o personalizar el efecto del sonido del televisor.	38
	CANAL permite configurar una lista de canales favoritos, ejecutar la función Autoprogramación, etc.	40
	PATERNO le permite impedir que se capten hasta cuatro canales.	42
	RELOJ le permite poner a la hora el reloj interno del televisor y programar por adelantado el televisor a fin de ver determinados programas.	43
	ADJUSTES ofrece varias opciones para programar canales, identificar las entradas de video y seleccionar el idioma de los menús en pantalla.	44


Para dar por terminada una sesión de menú:

Oprima el botón MENU nuevamente.

Para terminar una sesión de menú y pasar a otra:

Oprima la perilla control hacia arriba para regresar a los iconos de los menús.

Mueva la perilla control para escoger el siguiente icono del menú.





Oprima  para seleccionarlo.

Uso de los menús



Uso del menú Video

Para seleccionar el menú Video


- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono de video  y oprima .
- 3 Use la perilla control para desplazarse a través de las diversas funciones.
- 4 Oprima  para seleccionar una función. Aparecerá el ajuste correspondiente a la función.
- 5 Use la perilla control para efectuar los ajustes deseados.
- 6 Oprima  para seleccionar o aceptar el ajuste.
- 7 Oprima MENU para salir de la pantalla del menú.




Para restablecer los ajustes originales de fábrica para Imagen, Brillo, Color, Tinte, Nitidez, Calidez y Modulacion de Velocidad

- ☐ Oprima RESET en el control remoto cuando se encuentre en el menú Video.

Selección de opciones de Video

 Para cambiar rápida y fácilmente de una modalidad de video a otra, use el botón PICTURE MODE del control remoto.

El menú Video incluye las siguientes opciones.

Opción	Descripción	
Selección del tipo de imagen	Modo Vívido	Seleccione este modo para aumentar el contraste y la nitidez de la imagen.
	Estándar	Seleccione este modo para ajustes de imagen normal.
	Película	Seleccione este modo para obtener una imagen tenue, ideal para películas.
	Pro	Seleccione este modo para obtener imagen de apariencia profesional natural.
 Se puede modificar los ajustes del menú Video (Contraste, Brillo, Color, etc.) para cada modo.		
Contraste	Ajuste para aumentar el contraste de la imagen y profundizar el color, o bien para reducir el contraste y atenuar el color.	
Brillo	Ajuste para aumentar o disminuir el brillo de la imagen.	
Color	Ajuste para aumentar o disminuir la intensidad del color.	
Tinte	Ajuste para aumentar o disminuir los tonos verdes.	





<i>Opción</i>	<i>Descripción</i>
Nitidez	Ajuste para aumentar la nitidez de la imagen o para suavizarla.
Calidez	Elija la temperatura del color que desee:
<i>Ajuste de la intensidad del blanco</i>	Frío Seleccione para dar un tono azulado a los colores blancos.
	Neutro Seleccione para dar un tono neutro a los colores blancos.
	Cálido Seleccione para dar un tono rojizo a los colores blancos (estándar NTSC).
MV <i>Modulación de la velocidad</i>	Agudiza la definición de la imagen para que cada objeto adquiera un borde perfilado. Seleccione Alta, Media, Baja, No.
DRC modo <i>Digital Reality Creation mode</i> (Creación de realidad digital)	Crea una imagen de alta resolución con una densidad de 4x para fuentes de alta calidad (por ejemplo, reproductores de videodiscos, receptores satelitales). Seleccione Entrelazada, Progresiva o Cinemotion.
	Entrelazada Recomendado para imágenes en movimiento.
	Progresiva Recomendado para imágenes fijas y texto.
	Cinemotion Brinda una imagen de calidad óptima, detectando automáticamente el contenido de las películas y aplicando un proceso de despliegue 3/2. Las imágenes móviles revistan mayor claridad y naturalidad.

Uso de los menús



Uso del menú Audio

Para seleccionar el menú Audio

- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono de audio  y oprima .
- 3 Use la perilla control para desplazarse a través de las diversas funciones.
- 4 Oprima  para seleccionar una función. Aparecerá el ajuste correspondiente a la función.
- 5 Use la perilla control para efectuar los ajustes deseados.
- 6 Oprima  para seleccionar o aceptar el ajuste.
- 7 Oprima MENU para salir de la pantalla del menú.



Para restaurar los ajustes originales de fábrica para Agudos, Graves y Balance

- ☐ Oprima RESET en el control remoto cuando se encuentre en el menú Audio.

Selección de opciones de Audio

El menú Audio incluye las siguientes opciones:

Opción	Descripción	
Agudos	Ajuste para disminuir o aumentar los tonos de alta frecuencia.	
Graves	Ajuste para disminuir o aumentar los tonos de baja frecuencia.	
Balance	Ajuste para enfatizar el sonido de la bocina izquierda o derecha.	
Autovolumen	SI	Selecione para estabilizar el volumen.
	NO	Selecione para desactivar Autovolumen.
Efecto	TruSurround	Selecione para obtener sonido envolvente (sólo para programas estereofónicos).
	Simulado	Añade un efecto de sonido envolvente simulado en los programas monofónicos.
	NO	Recepción estereofónica o monofónica normal.




<i>Opción</i>	<i>Descripción</i>	
MTS <i>Disfrute de programas estereofónicos bilingües y monofónicos</i>	Estéreo	Seleccione para la recepción en estereofónica al ver un programa estereofónico.
	Auto-SAP (Programa secundario de audio)	Seleccione para que el televisor cambie automáticamente a un segundo programa de audio cuando se reciba una señal. (Si no se recibe señal SAP, el televisor permanecerá en el modo Estéreo.)
	Monofónico	Seleccione para la recepción monofónica. (Se utiliza para reducir el ruido durante las transmisiones estereofónicas.)
Bocinas	SI	Seleccione para activar las bocinas del televisor.
	NO	Seleccione para desactivar las bocinas del televisor y escuchar el sonido de éste sólo a través de las bocinas del sistema de sonido externo.
Salida de Audio <i>Control fácil de ajustes de volumen</i>	Puede cambiarse esta opción únicamente cuando la opción Bocinas está en NO.	
	Variable	Varía el volumen de acuerdo con los ajustes del televisor, lo cual resulta útil cuando se quiere usar el control remoto del televisor para ajustar el volumen que sale de un sistema de sonido independiente.
	Fija	La señal de audio que el televisor envía al audio receptor mantiene un nivel constante. Use el control remoto del audio receptor para ajustar el volumen.

Uso de los menús



Uso del menú Canal




Para seleccionar el menú Canal





- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono de canales y oprima .
- 3 Use la perilla control para desplazarse a través de las diversas funciones.
- 4 Oprima  para seleccionar una función. Aparecerá el ajuste correspondiente a la función.
- 5 Use la perilla control para efectuar los ajustes deseados.
- 6 Oprima  para seleccionar o aceptar el ajuste.
- 7 Oprima MENU para salir de la pantalla del menú.



Selección de opciones de Canal

El menú Canal incluye las siguientes opciones:

Opción	Descripción	
Canal Favorito	1	Oprima  para seleccionar el número de un canal favorito.
	2	Use la perilla control para desplazarse a través de los canales hasta encontrar el canal que desee agregar a sus favoritos.
	3	Oprima  para seleccionarlo.
Cable	SI	Seleccione si está recibiendo canales mediante un sistema de cable.
	NO	Seleccione si está utilizando una antena.
 Debe ejecutar Autoprogramación después de cambiar el ajuste de Cable.		
Fijar Canal <i>Resulta útil si tiene conectado un decodificador o un receptor satelital</i>	2-6	"Fije" el canal de su televisor en 3 ó 4 y use el decodificador, videocasetera o receptor satelital para cambiar canales. Seleccione una de estas opciones si el dispositivo está conectado a la entrada VHF/UHF.
	AUX 2-6	Igual que el 2-6, salvo que se selecciona una de estas opciones si el dispositivo está conectado a la entrada AUX (vea la página 8).
	VIDEO 1	Utilice esta opción si el dispositivo está conectado a las entradas de Audio y Video.
Autoprogramación	Programa automáticamente el televisor para todos los canales que se reciban.	

<i>Opción</i>	<i>Descripción</i>
Omitir/ Añadir Canal	Elimina y agrega canales. 1 Use la perilla control para desplazarse a través de los canales hasta encontrar el canal que desee omitir o agregar. 2 Oprima  para seleccionarlo. 3 Oprima la perilla control ( / ) para Agregar u Omitir el canal seleccionado. 4 Oprima  para aceptar el cambio.
Nombre de Canal	Permite etiquetar un máximo de 20 canales con las siglas de la emisora.




Uso de los menús




Uso del menú Paterno

El menú Paterno le permite impedir que el televisor capte hasta cuatro canales.

Para seleccionar el menú Paterno

- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono Paterno  y oprima .
- 3 Use los botones 0-9 del control remoto para asentar su contraseña de cuatro dígitos.
- 4 Confirme su contraseña, volviendo a asentarla. Aparecerán las opciones del menú Paterno.
- 5 Use la perilla control para efectuar los ajustes deseados.
- 6 Oprima  para seleccionar o aceptar el ajuste.
- 7 Oprima MENU para salir de la pantalla del menú.



 Usted necesita su contraseña para poder tener acceso al menú Paterno en un futuro. Si usted olvidó su contraseña, vea "Pérdida de contraseña" en página 54.

Para desactivar la supresión de canales:

- ☐ Seleccione la opción NO en la lista de canales.

Uso del menú Paterno


El menú Paterno tiene la siguiente opción:

Opción	Descripción
Suprimir Canal	<ol style="list-style-type: none"> 1 Seleccione la posición (1-4) para el canal que desee suprimir. 2 Seleccione el canal de la lista de canales (1-125).





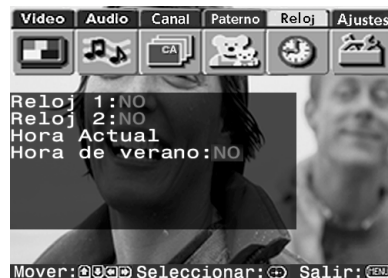
Uso del menú Reloj

Para seleccionar el menú Reloj

- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono del reloj y oprima .



Para poner la hora actual

- 1 Use la perilla control para seleccionar "Hora actual" y luego oprima .
- 2 Si está vigente el horario de verano, primero ponga esta modalidad en SÍ. (El horario de verano entra en vigor durante la primavera y termina en otoño.)
- 3 Use la perilla control para poner la hora correcta y luego oprima .
- 4 Oprima MENU para salir de la pantalla de menú.



Para activar el reloj

Antes de activar el reloj, no se olvide de poner el reloj interno de su televisor a la hora actual (y, si corresponde, de activar la modalidad de horario de verano). Para ver la hora del reloj interno, oprima el botón DISPLAY del control remoto.

- 1 Con la perilla control, seleccione "Reloj 1" o "Reloj 2" y luego oprima .
- 2 Use la perilla control para asentar la fecha, hora, duración y canal de su preferencia y luego oprima .
- 3 Oprima MENU para salir de la pantalla del menú.

Para reinicializar los relojes

- ☐ Oprima RESET en el control remoto cuando se encuentre en el menú Reloj. Así quedarán restablecidos los ajustes originales de fábrica.

Selección de opciones de Reloj

El menú Reloj incluye las siguientes opciones:

Opción	Descripción	
Reloj 1 Reloj 2	Programar	Seleccione para indicar el día, hora, duración y canal correspondiente a cada reloj.
	NO	Seleccione para apagar el reloj respectivo. (Se guardará la selección anterior.)
Hora actual	Ajusta la hora actual.	
Hora de verano	SI	Seleccione en primavera para ajustar la hora durante el horario de verano.
	NO	Seleccione en otoño para ajustar la hora al final de el horario de verano.

Uso de los menús



Uso del menú Ajustes

Para seleccionar el menú Ajustes




- 1 Oprima MENU.
- 2 Use la perilla control para pasar al icono de ajustes  y oprima .
- 3 Use la perilla control para desplazarse a través de las funciones.
- 4 Oprima  para seleccionar una función. Aparecerá el ajuste correspondiente a la función.
- 5 Use la perilla control para desplazarse por las opciones.
- 6 Oprima  para seleccionar o aceptar el ajuste.
- 7 Oprima MENU para salir de la pantalla del menú.



Selección de opciones de Ajustes

El menú Ajustes incluye las siguientes opciones:

Opción	Descripción
Caption Vision	Permite realizar la selección entre los tres modos de subtítulo (para programas que se emiten con subtítulos).
CC1, CC2, CC3, CC4	Muestra una versión impresa del diálogo o los efectos de sonido de un programa. (Debe seleccionarse en CC1 para la mayoría de los programas.)
TEXT1, TEXT2, TEXT3, TEXT4	Muestra información de la cadena o emisora utilizando la mitad de la pantalla o toda (si el canal ofrece este servicio).
XDS (Servicio ampliado de datos)	Muestra el nombre de la cadena y del programa, su duración y la hora de emisión si la emisora ofrece este servicio.
NO	Desactiva Caption Vision.

Opción	Descripción
Etiqueta de Video	Esta función le permite identificar los aparatos de audio y video que usted haya conectado al televisor, a fin de poder identificarlos en la pantalla al usar el botón TV/VIDEO. Una vez seleccionada la opción Etiqueta de Video en el menú Video, use la perilla control para hacer resaltar la entrada que quiere etiquetar y luego oprima  para seleccionarla. Después, use la perilla control para recorrer las etiquetas. Oprima  para seleccionar el aparato que conectó a cada entrada en la parte trasera del televisor. Seleccione "Omitir" si no tiene conectado un aparato a la entrada respectiva.
VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Juego, Satélite, Videodiscos, Web, Receptor, Televisión digital, Omitir
VIDEO 5/6	Alta definición, Videodiscos, Televisión digital, Omitir
	 Si selecciona Omitir, el televisor omitirá esta conexión cuando oprima el botón TV/VIDEO.
Rotación	Permite corregir las inclinaciones de la imagen.
Idioma	Seleccione el idioma en que desea ver todos los menús en pantalla.
16:9 Realzado	Proporciona una resolución realzada de imagen para fuentes de pantalla panorámica, como videodiscos (disponible solamente cuando el televisor se encuentra en el modo VIDEO). Oprima TV/VIDEO y seleccione una de las siguientes opciones:
AUTO	Para activarse automáticamente al recibirse una señal 16:9.
SI	Para activarse manualmente.
Demostración	Realiza una demostración de los menús en pantalla.

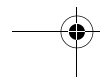
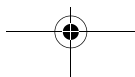
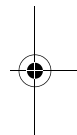
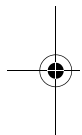
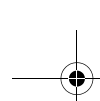


Para utilizar esta función con videodiscos para pantalla panorámica, ajuste el reproductor de videodiscos en la proporción 16:9.



Aparece AUTO/SI cuando el televisor está en el modo VIDEO 1-6.

Aparece SI/NO cuando el televisor está en el modo VIDEO 5-6 y se recibe una señal 480p.



Información adicional

Resumen

En este capítulo se incluyen los siguientes temas:

<i>Tema</i>	<i>Página</i>
Programación del control remoto	48
Uso del control remoto con otros aparatos	51
Solución de problemas	53
Especificaciones	55
Índice alfabético	57


Información adicional

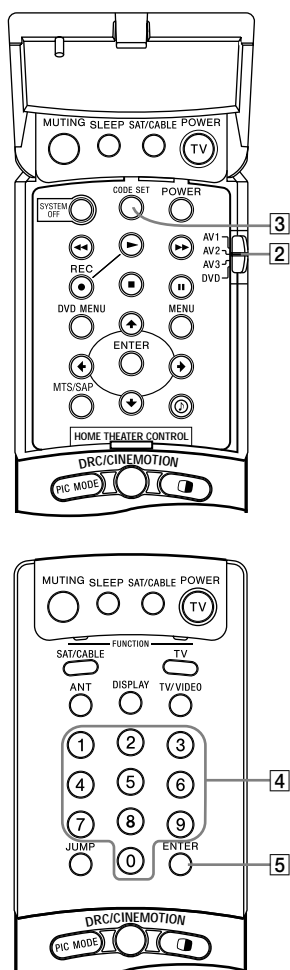
Programación del control remoto

El control remoto está programado para utilizar equipos de video Sony.


Equipo Sony	Posición del selector del control remoto	Clave programable
Videocaseteras Beta, ED Beta	AV1	303
Videocasetera de 8 mm	AV2	302
Videocasetera VHS	AV3	301
Reproductor de videodiscos	DVD	751

Si dispone de algún equipo de video que no sea Sony que desee controlar con el control remoto del televisor, utilice los siguientes procedimientos para programar el control remoto.

 El equipo debe disponer de capacidad remota infrarroja (IR) para poder utilizarse con el control remoto.



- 1 Consulte las Claves de fabricantes en la página 50 y localice la clave de tres dígitos correspondiente a su aparato. (Si aparece más de una clave, use la que aparece primero para llevar a cabo el siguiente procedimiento.)
- 2 Abra la tapa del control remoto y deslice el selector a la entrada que corresponda al tipo de aparato deseado.
- 3 Oprima CODE SET y cierre la tapa del control remoto.

 Debe realizar el paso 4 antes de 10 segundos después del paso 3 o deber iniciar la operación de nuevo a partir del paso 2 y 3.
- 4 Asiente la clave de tres dígitos del fabricante.
- 5 Oprima ENTER.
- 6 Para verificar si funciona la clave, apunte el control remoto del televisor al equipo y oprima el botón verde POWER (encendido) que corresponda a ese equipo. Si responde el aparato, todo está bien. De lo contrario, intente con las demás claves correspondientes a su aparato.

Consejos

- ☐ Si se indica más de una clave, intente introducirlos uno por uno hasta que encuentre la que sirve con su equipo.
- ☐ Si introduce una clave nueva, la clave que había introducido previamente durante el ajuste se borrará.
- ☐ En casos de excepción, es posible que no se pueda emplear el equipo con el control remoto suministrado. En este caso, utilice la unidad de control remoto propia del equipo.
- ☐ Cuando quite las pilas para sustituirlas, las claves pueden regresar al ajuste de fábrica y será preciso volver a programarlas.

Información adicional

Claves de fabricantes

Videocaseteras

<i>Fabricante</i>	<i>Clave</i>
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio	314, 337
Dynamic	
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
Memorex	309, 335
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308

<i>Fabricante</i>	<i>Clave</i>
Optimus	327
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 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
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Reproductores de discos láser

<i>Fabricante</i>	<i>Clave</i>
Sony	701
Panasonic	704, 710
Pioneer	702

Reproductores de videodiscos

<i>Fabricante</i>	<i>Clave</i>
Sony	751
GE	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/ PROSCAN	755
Samsung	758
Toshiba	754
Zenith	760

Decodificadores

<i>Fabricante</i>	<i>Clave</i>
Sony	230
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

Receptores de satélite

<i>Fabricante</i>	<i>Clave</i>
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/ PROSCAN	802, 808
Toshiba	806, 807

Uso del control remoto con otros aparatos

Con una videocasetera

Abra la tapa del control remoto y deslice el selector a la entrada de audio y video que usted programó para la videocasetera.

Para ...	Oprima
Activar/desactivar	Botón verde de POWER (debajo de la tapa)
Cambiar de canal	CH +/-
Grabar	▶ y REC simultáneamente
Reproducir	▶
Detener el funcionamiento	■
Avanzar rápidamente	▶▶
Rebobinar la cinta	◀◀
Hacer pausa	
Buscar una imagen hacia delante o hacia atrás	▶▶ o ◀◀ durante la reproducción (deje de oprimirlo para reanudar la reproducción normal)

Con un reproductor de videodiscos

Abra la tapa del control remoto y deslice el selector a la entrada de audio y video que usted programó para la videocasetera.

Para ...	Oprima
Activar/desactivar	Botón verde de POWER (debajo de la tapa)
Reproducir	▶
Detener el funcionamiento	■
Hacer pausa	
Recorrer las diferentes pistas de un audiodisco	▶▶ para avanzar o ◀◀ para retroceder
Recorrer los diferentes capítulos de un videodisco	CH+ para avanzar o CH- para retroceder
Mostrar el menú DVD	DVD MENU
Ver el menú (Ajustes)	MENU


Información adicional

(Continúa)

**Con un
decodificador**






<i>Para ...</i>	<i>Oprima</i>
Activar/desactivar	SAT/CABLE (botón verde de POWER)
Seleccionar decodificador	SAT/CABLE (botón de FUNCTION)
Seleccionar canales	Botones 0–9, ENTER
Cambiar de canal	CH +/-
Volver al canal anterior	JUMP

**Con un receptor
satelital**

<i>Para ...</i>	<i>Oprima</i>
Activar/desactivar	SAT/CABLE (botón verde de POWER)
Seleccionar receptor satelital	SAT/CABLE (botón de FUNCTION)
Seleccionar canales	Botones 0–9, ENTER
Cambiar de canal	CH +/-
Volver al canal anterior	JUMP
Ver el número de canal	DISPLAY
Ver la guía SAT	GUIDE
Ver el menú SAT	MENU
Mover el resalte (cursor)	Perilla control
Seleccionar opciones	Botón 

**Con un reproductor
de discos láser**

Abra la tapa del control remoto y deslice el selector a la entrada de audio y video que usted programó para la videocasetera.

<i>Para ...</i>	<i>Oprima</i>
Activar/desactivar	Botón verde de POWER (debajo de la tapa)
Reproducir	
Detener el funcionamiento	
Hacer pausa	
Buscar una imagen hacia delante o hacia atrás	 o  durante la reproducción (deje de oprimirlo para reanudar la reproducción normal)
Buscar capítulos hacia delante o atrás	CH +/-

Solución de problemas

<i>Problema</i>	<i>Soluciones posibles</i>
No hay imagen (la pantalla no se enciende), no hay sonido	<ul style="list-style-type: none"> <input type="checkbox"/> Si el televisor no enciende y una luz roja sigue parpadeando, es posible que el televisor necesite servicio de un técnico. Llame al Centro de Servicio Sony. <input type="checkbox"/> Asegúrese de que el cable de corriente está enchufado. <input type="checkbox"/> Oprima el botón de encendido en la parte delantera del televisor. <input type="checkbox"/> Compruebe si el ajuste de TV/VIDEO es correcto: para ver el televisor, póngalo en TV y para ver las imágenes de un equipo conectado, póngalo en VIDEO1, 2, 3, 4, 5 ó 6. <input type="checkbox"/> Pruebe con otro canal. Podría ser un problema de la emisora.
El control remoto no funciona	<ul style="list-style-type: none"> <input type="checkbox"/> Las pilas podrían estar bajas. Revise las pilas y, de ser necesario, sustitúyalas. <input type="checkbox"/> Oprima TV (FUNCTION) cuando utilice el televisor. <input type="checkbox"/> Asegúrese de que el cable de corriente del televisor está conectado con firmeza a la toma de corriente de la pared. <input type="checkbox"/> Mantenga el televisor a cuando menos un metro o más de distancia de los tubos fluorescentes. <input type="checkbox"/> Compruebe la orientación de las pilas.
Imagen oscura, mala o inexistente (pantalla encendida), buen sonido	<ul style="list-style-type: none"> <input type="checkbox"/> Ajuste el valor de Contraste del menú Video (consulte la página 36). <input type="checkbox"/> Ajuste el valor de Brillo del menú Video (consulte la página 36). <input type="checkbox"/> Compruebe las conexiones de la antena y del cable.
Buena imagen, sin sonido	<ul style="list-style-type: none"> <input type="checkbox"/> Oprima MUTE para que desaparezca "MUTE" de la pantalla (consulte la página 4). <input type="checkbox"/> Compruebe que Bocinas está en SI en el menú Audio (consulte la página 39).
No se captan los canales de banda alta (UHF) al usar una antena	<ul style="list-style-type: none"> <input type="checkbox"/> Cambie Cable a NO (consulte la página 40). <input type="checkbox"/> Utilice Auto Programación del menú Canal para añadir canales que se reciban y que no se encuentren en la memoria del televisor (consulte la página 40).
Sin color	<ul style="list-style-type: none"> <input type="checkbox"/> Ajuste los valores de Color del menú Video (consulte la página 36).
Sólo aparecen interferencias y ruido en la pantalla	<ul style="list-style-type: none"> <input type="checkbox"/> Compruebe las conexiones de antena/cable. <input type="checkbox"/> Cambie a otro canal; podría tratarse de un problema de la emisora. <input type="checkbox"/> Oprima ANT para cambiar el modo de entrada (consulte la página 4).
Rayas o líneas con puntos	<ul style="list-style-type: none"> <input type="checkbox"/> Ajuste la antena. <input type="checkbox"/> Aleje el televisor de fuentes de interferencia como automóviles, letreros de neón o secadores de pelo.
El televisor se queda fijo en un canal	<ul style="list-style-type: none"> <input type="checkbox"/> Utilice Autoprogramación del menú Canal para añadir canales que se reciban y que no se encuentren en la memoria del televisor (consulte la página 40). <input type="checkbox"/> Compruebe los ajustes de Fijar Canal (consulte la página 40).
Imágenes dobles o fantasmas	<ul style="list-style-type: none"> <input type="checkbox"/> Utilice una antena exterior altamente direccional o un cable (cuando el problema se debe a reflejos provocados por montañas cercanas o edificios altos).
Imposible utilizar el menú	<ul style="list-style-type: none"> <input type="checkbox"/> Si la opción del menú que se desea seleccionar aparece en gris, no se puede seleccionar.
No se capta ningún canal al usar el sistema de televisión por cable	<ul style="list-style-type: none"> <input type="checkbox"/> Utilice Autoprogramación del menú Canal para añadir canales que se reciban y que no se encuentren en la memoria del televisor (consulte la página 40). <input type="checkbox"/> Compruebe los ajustes de cable. <input type="checkbox"/> Compruebe que Cable esté en SI en el menú Canal (consulte la página 40).

Información adicional

(Continúa)

<i>Problema</i>	<i>Soluciones posibles</i>
Falta volumen al usarse un decodificador	<input type="checkbox"/> Aumente el volumen del decodificador mediante el control remoto de éste. Después oprima TV (FUNCTION) y ajuste el volumen del televisor.
Imposible recibir canales	<input type="checkbox"/> Utilice Autoprogramación del menú Canal para añadir canales de televisión que se reciban y que no se encuentren en la memoria del televisor (consulte la página 40).
Imposible seleccionar un canal	<input type="checkbox"/> Utilice Autoprogramación del menú Canal para añadir canales de televisión que se reciban y que no se encuentren en la memoria del televisor (consulte la página 40).
Pérdida de contraseña	<input type="checkbox"/> Mediante la pantalla de la contraseña (vea la página 42), ingrese la contraseña maestra, 4357. Esta contraseña maestra borra la contraseña registrada anteriormente, mas no permite ver los canales suprimidos.
No se puede cambiar el canal con el control remoto	<input type="checkbox"/> Si está usando otro dispositivo para cambiar canales, asegúrese que no ha cambiado sin querer su televisor del canal 3 ó 4. <input type="checkbox"/> Si está usando otro aparato para cambiar canales, no olvide oprimir el botón de funciones correspondiente a ese aparato.
No se puede ver la lista de los demás aparatos de video que están conectados al televisor.	<input type="checkbox"/> Asegúrese que la función de Etiqueta de Video no está en "Omitir" (consulte la página 45).
Aparece un cuadro negro en la pantalla	<input type="checkbox"/> Está seleccionada una opción de texto en el menú de Ajustes y no se está transmitiendo texto (consulte la página 44 para cambiar los Ajustes). Para apagar esta función, seleccione NO en la opción Caption Vision (subtítulos). Si desea ver subtítulos, escoja CC1 en lugar de Texto 1-4.
No aparece la imagen gemela o ésta permanece sin movimiento	<input type="checkbox"/> Asegúrese que la imagen gemela se encuentre sintonizada con una fuente de video o un canal con programación al aire. <input type="checkbox"/> Es posible que se encuentre sintonizada con una entrada de video que no tiene nada conectado. Vea sus entradas de video, utilizando el botón de TV/VIDEO. <input type="checkbox"/> Imagen Gemela no puede recibir señal de la entrada AUX. Si usted conectó una videocasetera o receptor satelital a la entrada AUX del televisor, no aparecerá la imagen en la ventanilla derecha.
Se ve el mismo programa en ambas ventanillas de Imagen Gemela	<input type="checkbox"/> Es posible que ambas ventanillas se encuentren sintonizadas al mismo canal. Trate de cambiar el canal, ya sea de la ventanilla izquierda o de la derecha. <input type="checkbox"/> Es posible que su instalación requiera que todos los canales lleguen a través del decodificador. El decodificador decodifica una sola señal a la vez. De ser posible, conecte un cable directamente a la entrada VHF/UHF de su televisor. (Esto funciona sólo si su sistema de cable suministra una señal decodificada.)
Lo único que aparece en la ventanilla izquierda o derecha de Imagen Gemela es la televisión	<input type="checkbox"/> Asegúrese que Etiqueta de Video no esté programado para omitir sus entradas de video. Consulte en menú Ajustes en las páginas 44 y 45.

Si después leer este manual de instrucciones desea realizar otras consultas relacionadas con el uso de su nuevo televisor Sony, comuníquese con su distribuidor Sony.

Especificaciones

Todos los modelos (especificaciones generales)

Tubo de imagen	Tubo FD Trinitron	
Antena	Terminal externo de 75 ohm para VHF/UHF	
Sistema de televisión	NTSC, estándar americano de televisión	
Cobertura de canales		
VHF	2-13	
UHF	14-69	
Televisión por cable	1-125	
Número de entradas/salidas		
Video (IN)	4	1 Vpico-pico, 75 ohm asimétricos, sincronización negativa
S Video (IN)	3	Y: 1 Vpico-pico, 75 ohm asimétricos, sincronización negativa C: 0,286 Vpico-pico (señal de sincronización cromática), 75 ohm
Audio (IN)	6	500 mVrms (modulación 100%) Impedancia: 47 kiloohm
Audio (OUT)	1	Más de 408 mVrms al máximo ajuste de volumen (variable) Más de 408 mVrms (fijo) Impedancia (salida): 2 kiloohm
Salida de monitor	1	1 Vpico-pico, 75 ohm asimétricos, sincronización negativa
CONTROL S (IN/OUT)	1	
Entrada para componentes de video	2 (Y, P _B , P _R)	Y: 1,0 Vpico-pico, 75 ohm asimétricos, sincronización negativa; P _B : 0,7 Vpico-pico, 75 ohm; P _R : 0,7 Vpico-pico, 75 ohm

Información adicional

(Continúa)

KV-38DRC2**Accesorios suministrados**

Control remoto	RM-Y184
Pilas AA (R6)	2 suministradas para el control remoto
Accesorios opcionales	
Cable de audio y video	VMC-810/820/830 HG
Cable de audio	RKC-515HG
Cable para componentes de video	VMC-10/30 HG
Cable S-Link	RK-G69HG
Suporte para televisor	SU-36XBR45
Tamaño de pantalla visible	36 pulgadas (91,4 cm) medida diagonal
Tamaño real del TRC	38 pulgadas (96,5 cm) medida diagonal
Salida de la bocina	15W x 2
Dimensiones (an x al x prf)	99,4 x 75,5 x 62,2 cm (39 ¹ / ₄ x 29 ³ / ₄ x 24 ¹ / ₂ pulgadas)
Peso	108 kg (238 libras)
Suministro eléctrico	ca 120 V, 60 Hz
Consumo de energía	
En uso	245 W
En espera	2 W

KV-38DRC2C**Accesorios suministrados**

Control remoto	RM-Y184
Pilas AA (R6)	2 suministradas para el control remoto
Accesorios opcionales	
Cable de audio y video	VMC-810/820/830 HG
Cable de audio	RKC-515HG
Cable para componentes de video	VMC-10/30 HG
Cable S-Link	RK-G69HG
Suporte para televisor	SU-36XBR45
Tamaño de pantalla visible	36 pulgadas (91,4 cm) medida diagonal
Tamaño real del TRC	38 pulgadas (96,5 cm) medida diagonal
Salida de la bocina	15W x 2
Dimensiones (an x al x prf)	99,4 x 75,5 x 62,2 cm (39 ¹ / ₄ x 29 ³ / ₄ x 24 ¹ / ₂ pulgadas)
Peso	108 kg (238 libras)
Suministro eléctrico	ca 220 V, 50 Hz
Consumo de energía	
En uso	245 W
En espera	2 W

El diseño y las especificaciones están sujetos a cambios sin previo aviso.

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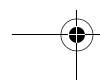
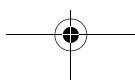
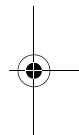
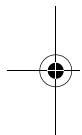
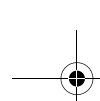
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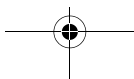
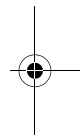
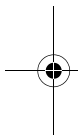
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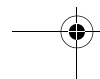
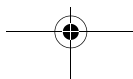
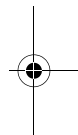
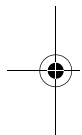
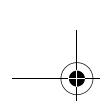
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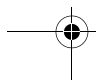
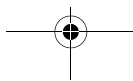
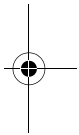
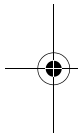
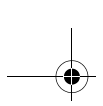
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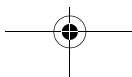
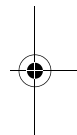
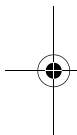
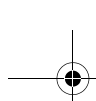
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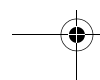
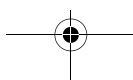
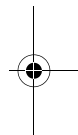
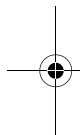
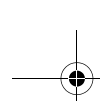


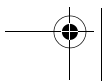
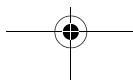
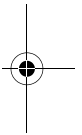
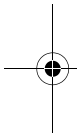
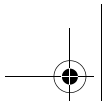


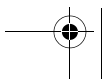
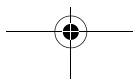
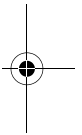
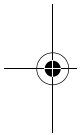
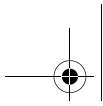












Printed in U.S.A.

PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convenience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS


If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

- 1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS



Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.


If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

- 1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape () mode.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

- 1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like: . This tool will expand to reveal additional tools. Choose the Graphics Select tool by placing the cursor over the button on the far right that looks like: .
- 2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.
- 3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee. 

(continued >)

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

- 1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.
- 2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool
- 3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The "Find" window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the "Find" button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select "Find Again."