

SERVICE MANUAL

DA-4 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO</u>
KD-34XBR970	RM-YD007	US	SCC-S76G-A

ORIGINAL MANUAL ISSUE DATE: 3/2006

 :UPDATED ITEM

<u>REVISION DATE</u>	<u>SUBJECT</u>
3/2006	No revisions or updates are applicable at this time.
8/2006	Corrected Screen (G2) instructions. Replaced page 51 with page 51. Removed Resetting the Data instructions. Replaced page 61 with page 61.

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Self Diagnosis
Supported model

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KD-34XBR970



RM-YD007

TRINITRON® COLOR TELEVISION
SONY®

TABLE OF CONTENTS

SECTION TITLE	PAGE	SECTION TITLE	PAGE
Specifications	4	SECTION 4: CIRCUIT ADJUSTMENTS.....	61
Warnings and Cautions	6	4-1. Setting Service Adjustment Mode	61
Safety Check-Out.....	7	4-1.1. Service Adjustment Mode In	61
Self-Diagnostic Function	8	4-1.2. Service Adjustment Mode Memory	61
SECTION 1: DISASSEMBLY.....	11	4-1.3. Reading the Memory	61
1-1. Rear Cover Removal.....	11	4-1.4. Adjusting the Picture.....	61
1-2. Chassis Assembly Removal.....	11	4-1.5. Copy Function.....	61
1-3. Service Position	11	4-2. Memory Write Confirmation Method	62
1-4. Picture Tube Removal.....	12	4-3. Remote Adjustment Buttons and Indicators.....	62
Anode Cap Removal Procedure	12	4-4. Service Data.....	63
Cable Wire Dressing	13	4-5. ID Map Table	77
SECTION 2: SET-UP ADJUSTMENTS.....	47	SECTION 5: DIAGRAMS.....	78
2-1. Beam Landing	47	5-1. Circuit Boards Location	78
2-2. Convergence.....	48	5-2. Printed Wiring Boards and Schematic Diagrams Information.....	78
2-2.1. Vertical and Horizontal Static Convergence	48	5-3. Block Diagrams	79
2-3. V-PIN and V-CEN Adjustment	48	5-4. Schematics and Supporting information	82
2-3.1. Operation of BMC (Hexapole) Magnet	48	A Board Schematic Diagram (1 of 2).....	82
2-3.2. TLH Plate Adjustment.....	49	A Board Schematic Diagram (2 of 2).....	83
2-3.3. Screen-Corner Convergence.....	49	B Board Schematic Diagram (1 of 2)	86
2-3.4. Dynamic Convergence Adjustments.....	49	B Board Schematic Diagram (2 of 2)	87
2-4. Focus Adjustment.....	50	CH Board Schematic Diagram	90
2-4.1. Dynamic Focus/Dynamic Quadra-Pole Data	50	D Board Schematic Diagram (1 of 2)	93
2-5. Screen (G2).....	51	D Board Schematic Diagram (2 of 2)	94
2-6. Picture Quality Adjustments	51	HAX Board Schematic Diagram.....	98
2-6.1. Video Input - Sub Contrast Adjustment.....	51	HB Board Schematic Diagram	100
2-6.2. Video Input - Sub Hue/Sub Color Adjustment.....	52	HCX Board Schematic Diagram.....	101
2-6.3. RF Input - Sub Contrast Adjustment.....	52	M Board Schematic Diagram (1 of 4).....	103
2-6.4. RF Input - Sub Hue/Sub Color Adjustment	53	M Board Schematic Diagram (2 of 4).....	104
2-7. White Balance (CRT) and Sub Bright Adjustment.....	53	M Board Schematic Diagram (3 of 4).....	105
2-7.1. Color Offset Adjustment Procedure	54	M Board Schematic Diagram (4 of 4).....	106
2-8. H Raster Center Adjustment	54	PA Board Schematic Diagram	109
2-9. Picture Distortion Adjustments	55	UZ Board Schematic Diagram	111
2-9.1. NTSC (DRC) Full Mode Adjustment	55	WY Board Schematic Diagram	114
2-9.2. 1080i HD Mode Adjustment.....	56	5-5. Semiconductors (1 of 2).....	117
2-9.3. Vertical Compressed Mode Check and Confirmation (For 4x3 CRT Only)	56	Semiconductors (2 of 2).....	118
2-9.4. Normal, Zoom and Wide Zoom modes.....	56	SECTION 6: EXPLODED VIEWS.....	119
SECTION 3: SAFETY RELATED ADJUSTMENTS.....	57	6-1. Chassis	119
3-1. Preparation Before Confirmation.....	57	6-2. Picture Tube	120
3-1.1. Hold-Down Operation Confirmation.....	57	SECTION 7: ELECTRICAL PARTS LIST	121
3-2. B+ Max Confirmation	57		
3-3. B+ Voltage Check	57		
3-4. High Voltage (HV) Check	57		
3-5. Preparation for HV and IK Protector Check	57		
3-6. HV Protector Check	57		
3-6-1. Cut Off Condition	57		
3-6-2. High Light Condition	58		
3-7. IK Protector Check.....	58		
3-8. Hold Down Check	58		
3-9. Restoration.....	58		
HV Service Flowchart Table	60		

SPECIFICATIONS

Power Requirements 120V AC, 60Hz

Inputs/Outputs

HDMI IN

Video
1080i, 720p, 480p, 480i
Audio Two channel linear PCM 32, 44.1 and 48 kHz,
16, 20, and 24 bit

Video (IN)

3 total (1 on front panel)
1Vp-p, 75ohms unbalanced, sync negative

S Video (IN)

3 total (1 on front panel)
Y: 1Vp-p, 75ohms unbalanced, sync negative
C: 0.286Vp-p (Burst signal), 75ohms

Audio (IN)

6 total (1 on front panel)
500 mVrms (100% modulation)
Impedance:47 kilo ohms

Control S (IN/OUT)

1 total

Component Video Input

2 (Y, P_B, P_R)
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
P_B: 0.7 Vp-p, 75 ohms;
P_R: 0.7 Vp-p, 75 ohms

Audio OUT (VAR/FIX)

1 total
At the maximum volume setting
More than 408 mVrms (Variable)
More than 408 mVrms (Fixed)
Impedance (Output):2 kilo ohm

Digital Audio Optical Output PCM/Dolby Digital

1 total
Coaxial

		KD-34XBR970
Speaker Output (W)		10 W X 2
Power Consumption (W)		
In Use (Max)		240 W
In Standby		<1 W
Dimensions (W x H x D)		
mm		994 x 654 x 604 mm
in		39 ¹ / ₈ x 25 ³ / ₄ x 23 ³ / ₄ in
Mass		
kg		86.3 kg
lbs		190 lbs

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by **SRS** (●)®

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Design and specifications are subject to change without notice.

Television system

American TV standard, NTSC
ATSC compliant (8 VSB terrestrial)
ATSC compliant 8 VSB terrestrial
QAM on cable ANSI/SCTE 07 2000

Channel coverage

Analog
VHF: 2-13/ UHF: 14-69/ CATV: 1-125
Digital
VHF: 2-13/ UHF: 14-69/ CATV: 1-135

Picture tube

FD Trinitron[®] tube

Visible screen size

34-inch picture measured diagonally

Actual screen size

36-inch measured diagonally

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander
RM-YD007
Two Size AA (R6) Batteries

Optional Accessories

AV Cable: VMC-810/820/830 HG
Audio Cable: RKC-515HG
Component Video Cable: VMC-10/30 HG
TV Stand: SU-34XBR4

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.

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.

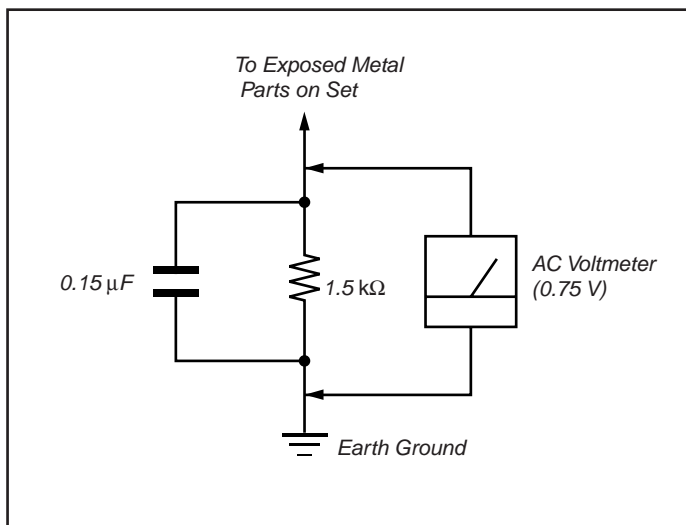


Figure A. Using an AC voltmeter to check AC leakage.

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).

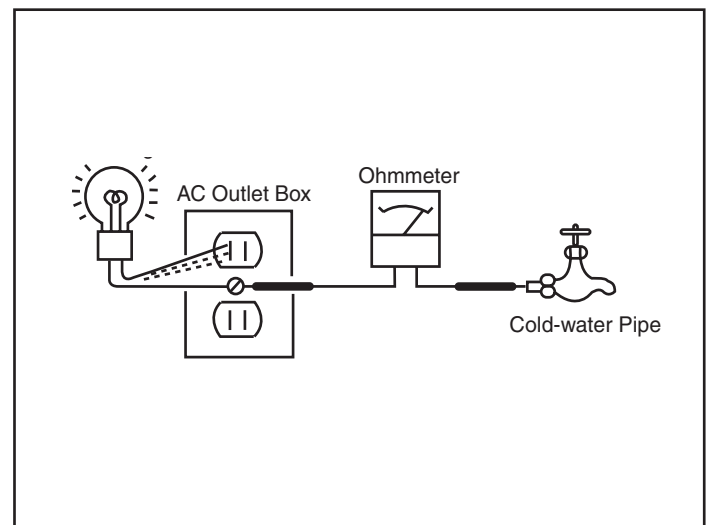


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



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

Diagnostic Test Indicators

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

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", an error has occurred.

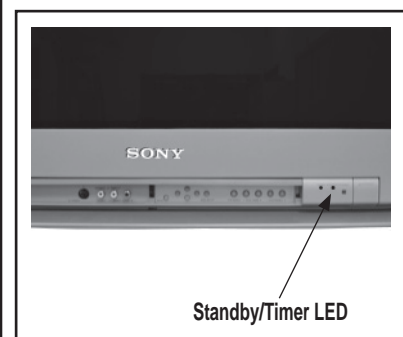
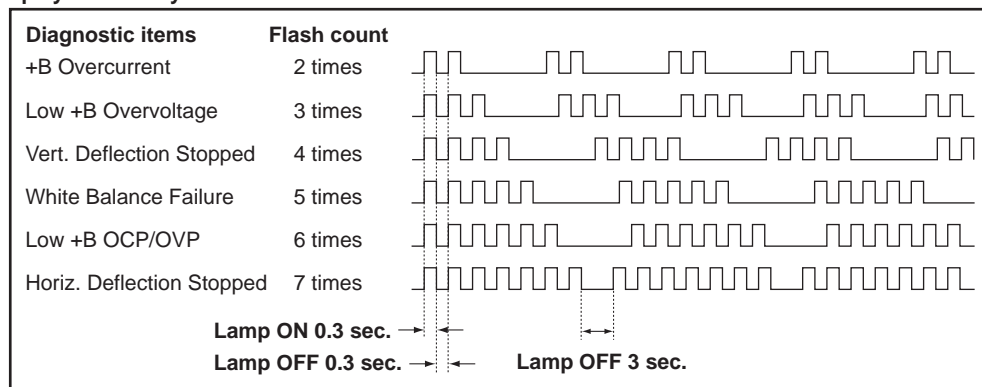
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_____	<ul style="list-style-type: none"> Power cord is not plugged in. Fuse is burned out (F501). (A Board) 	<ul style="list-style-type: none"> Power does not come on. No power is supplied to the TV. AC Power supply is faulty.
+B Overcurrent (OCP)*	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) 	<ul style="list-style-type: none"> Power does not come on. Load on power line shorted.
Low +B Overvoltage (OVP)	3 times	3:0 or 3:1	<ul style="list-style-type: none"> IC6505 is faulty. (D Board) 	<ul style="list-style-type: none"> Has entered standby mode.
Vertical Deflection Stopped	4 times	4:0 or 4:1	<ul style="list-style-type: none"> 15V is not supplied. (D Board) IC5004 is faulty. (D Board) 	<ul style="list-style-type: none"> Has entered standby mode 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. (CH Board) CRT drive (IC2801) is faulty. (B Board.) G2 is improperly adjusted.** 	<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)***	6 times	6:0 or 6:1	<ul style="list-style-type: none"> +5 line is overloaded. (A, B, M Boards) +5 line is shorted. (A, B, M Boards.) IC504 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

* 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 the screen.

** Refer to Screen (G2) in Section 2-5 of this manual.

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

Display of Standby/Timer LED Flash Count

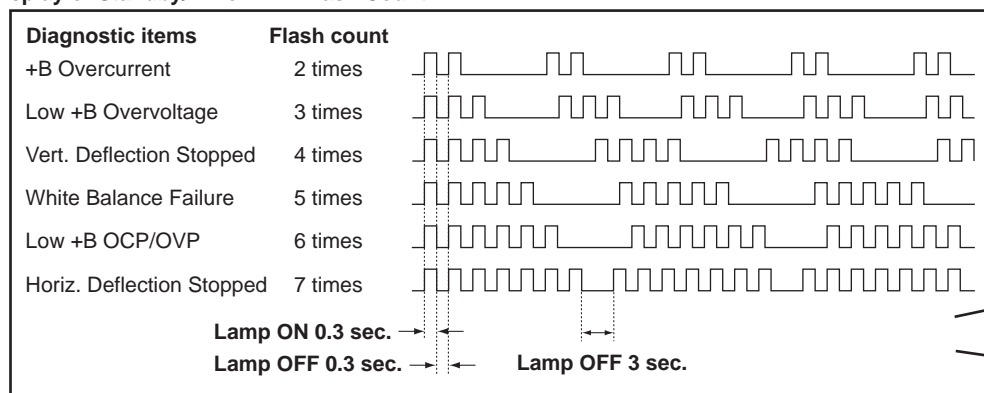


* One flash count is not used for self-diagnostic.

Stopping the Standby/Timer LED Flash

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

Display of Standby/Timer LED Flash Count



Numeral "0" means that no fault was detected.
 Numerical "1" means a fault was detected one time only.

Stopping the Standby/Timer LED Flash

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

Self-Diagnostic Screen Display

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

To Bring Up Screen Test

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

DISPLAY → Channel 5 → Sound volume - → Power ON.

SELF DIAGNOSIS	
2: +B OCP	0
3: +B OVP	0
4: VSTOP	0
5: AKB	1
6: LOWB	0
7: H-STOP	0
101: WDT	24

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:

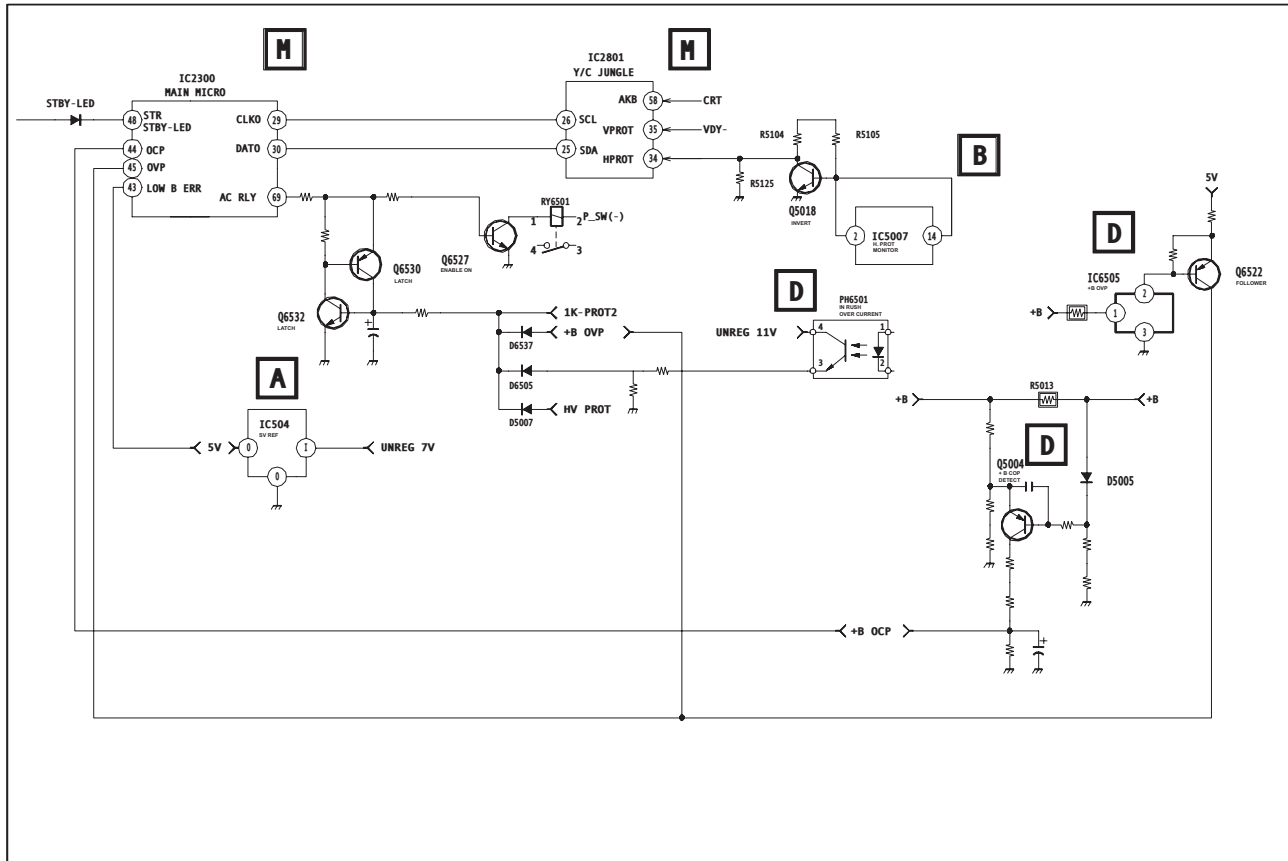
NOTE: This will also reset all user functions (including auto programming and picture settings)

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 excessive current flows through R5013. The increase in voltage across R5013 causes the output of Q5004 to go high, and this high signal goes to the micro.

+B overvoltage (OVP)

IC6505 detects +B OVP condition and turns on Q6522. This sends a high signal to the micro and also shuts down the AC relay.

V-STOP

Occurs when an absence of the vertical deflection pulse is detected by pin 24 of IC2801 (B Board). 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 IC2801. 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

Occurs when set 5V is out.

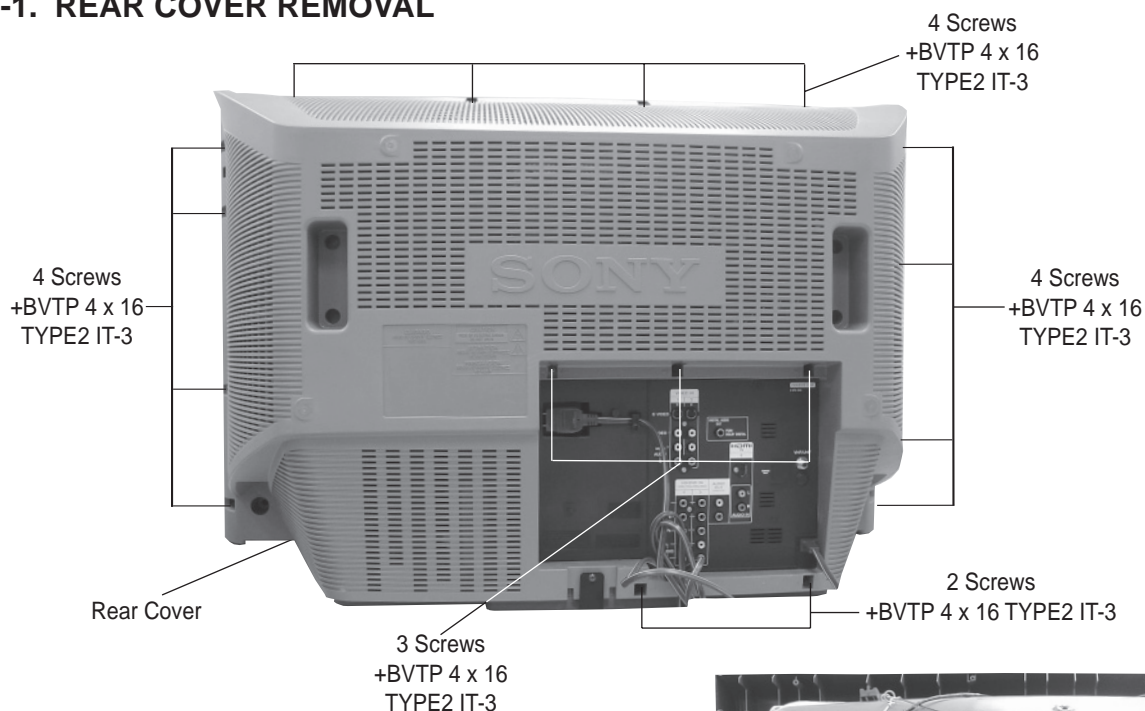
Horizontal Deflection Stopped

Occurs when either:

- 1) a +B overcurrent is detected (IC5007), or
- 2) overheating is detected (Thermistor TH5002).

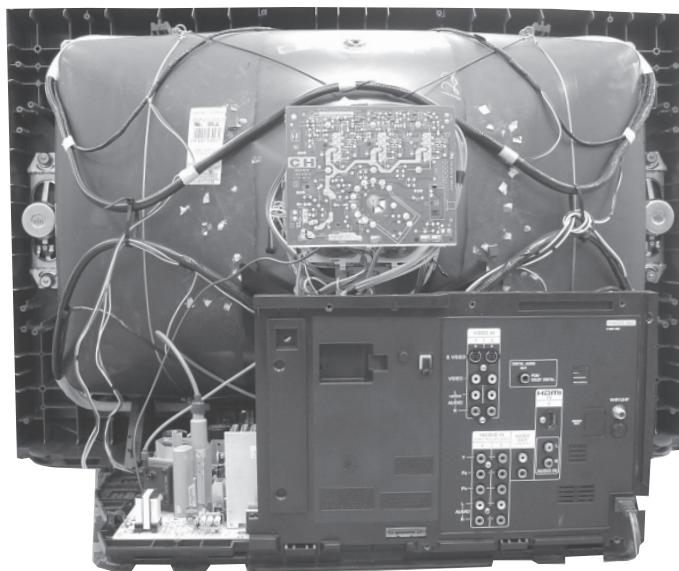
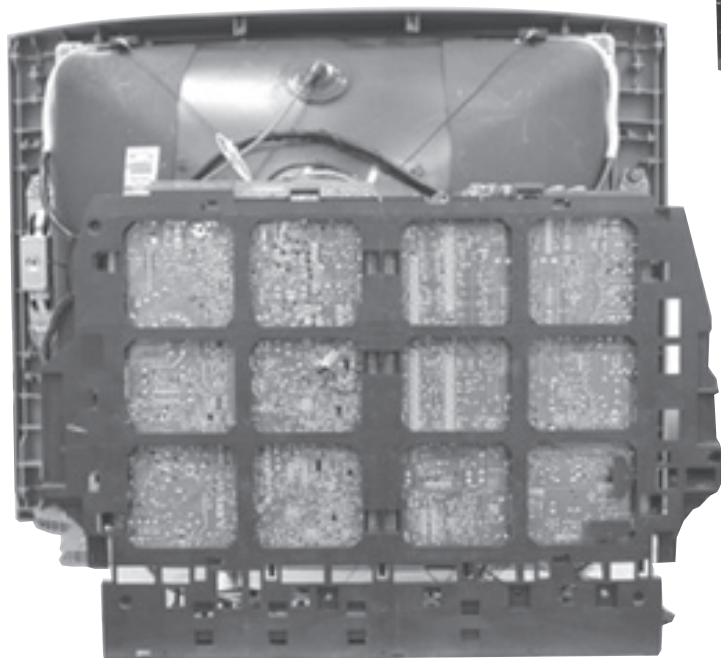
SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL



1-2. CHASSIS ASSEMBLY REMOVAL

- 1 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

CAUTION! - Heat sink on IC5004 is -15V. Do not allow heat sink to touch GND or any other components.

Heat sink on Q8018 VpK=250V, is -15V. Do not touch or short to GND or any other components.

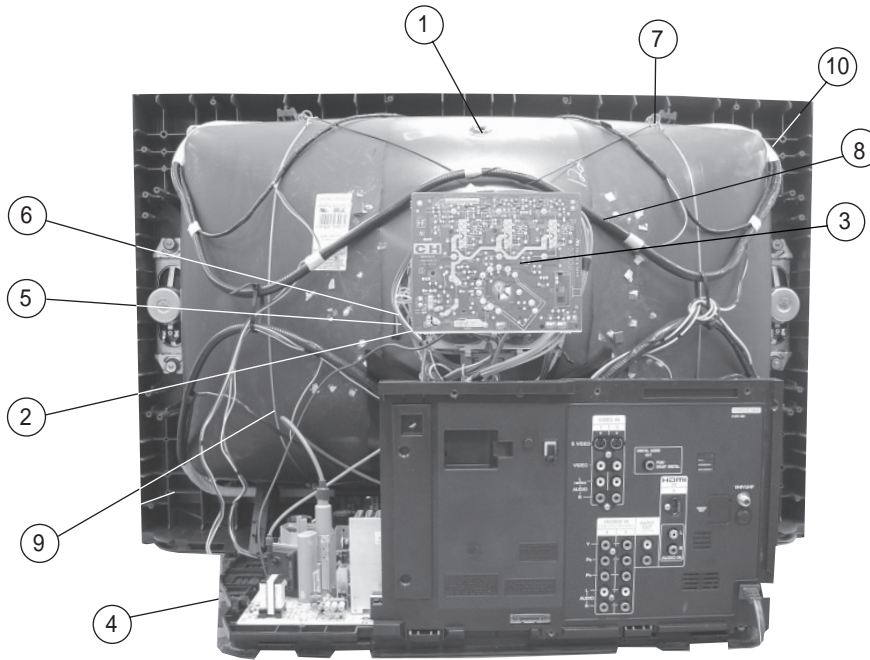
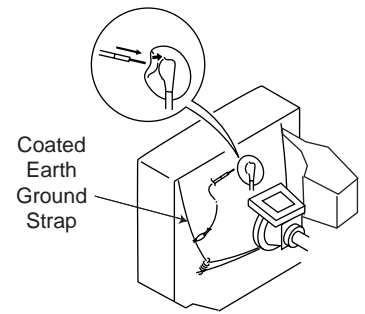
CAUTION! - Pay attention to Neck Assembly WY Board wire harness to B Board. The WY Board can easily break if there is sudden or excessive tension on the harness.

- 1 Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.
- 2 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.



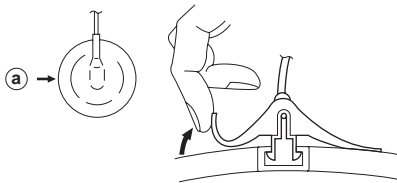
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the CH Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.
6. Loosen the deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
8. Remove the degaussing coils.
9. Remove the CRT grounding strap and spring tension devices.
10. 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

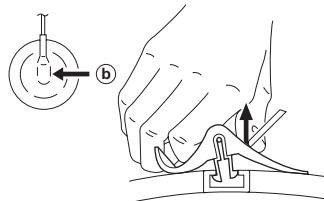
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

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.

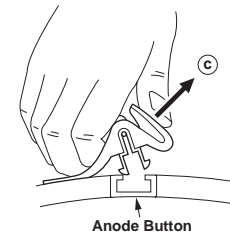
REMOVAL PROCEDURES



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



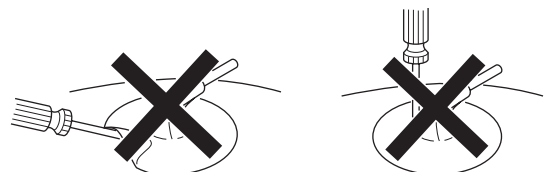
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



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 .

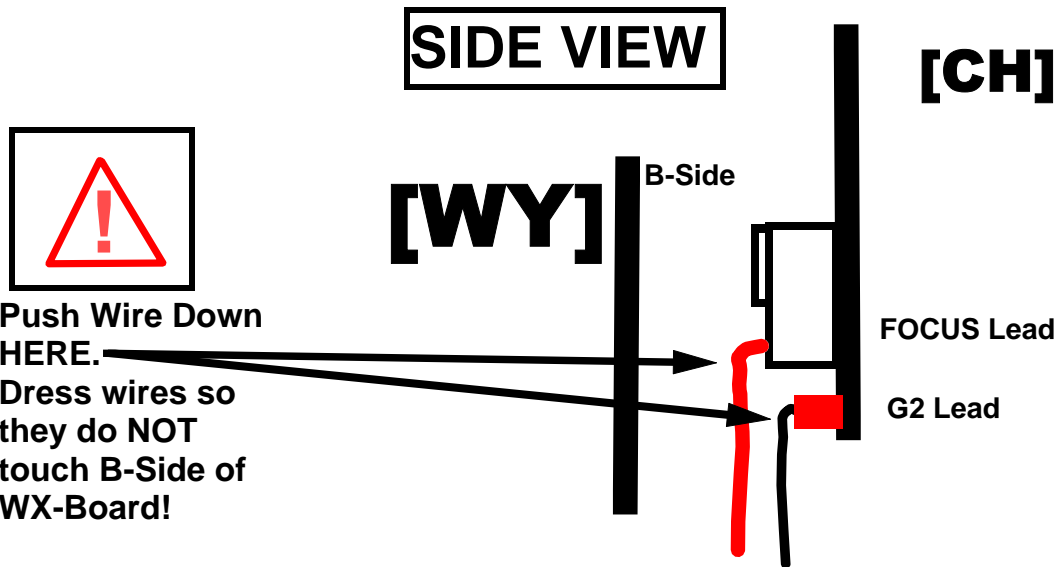
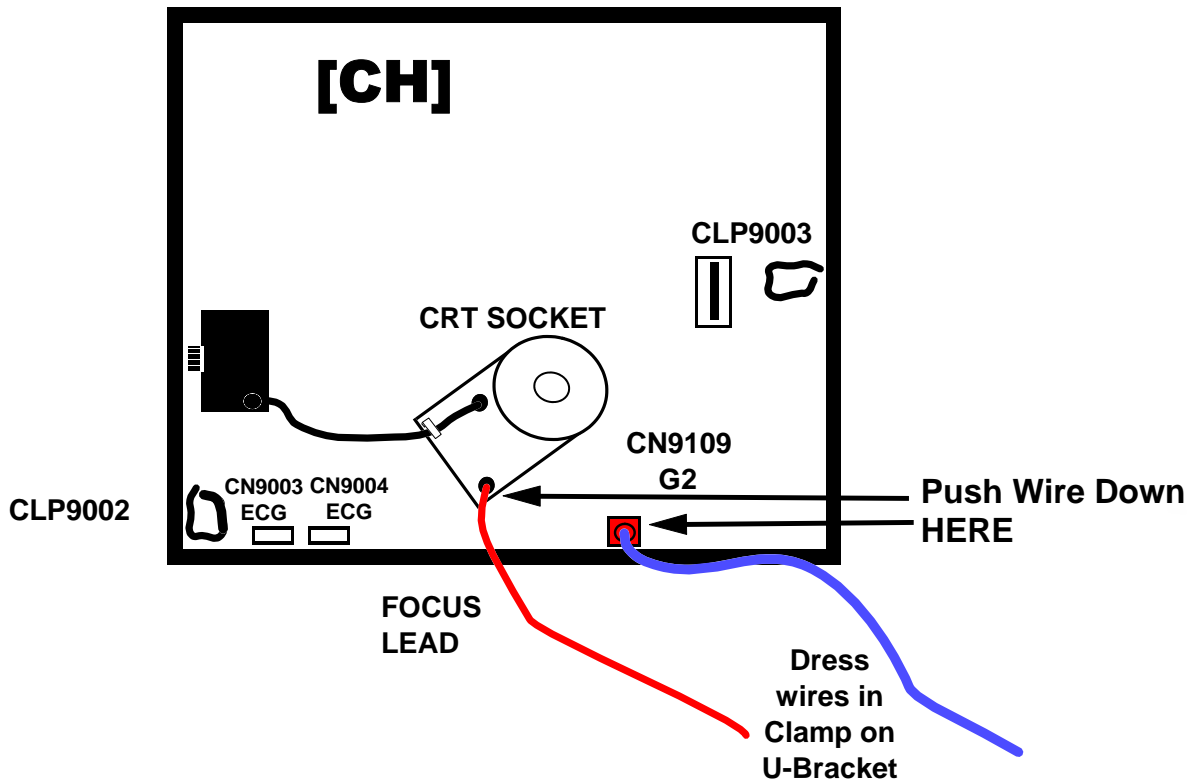
HOW TO HANDLE AN ANODE CAP

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.



CABLE WIRE DRESSING

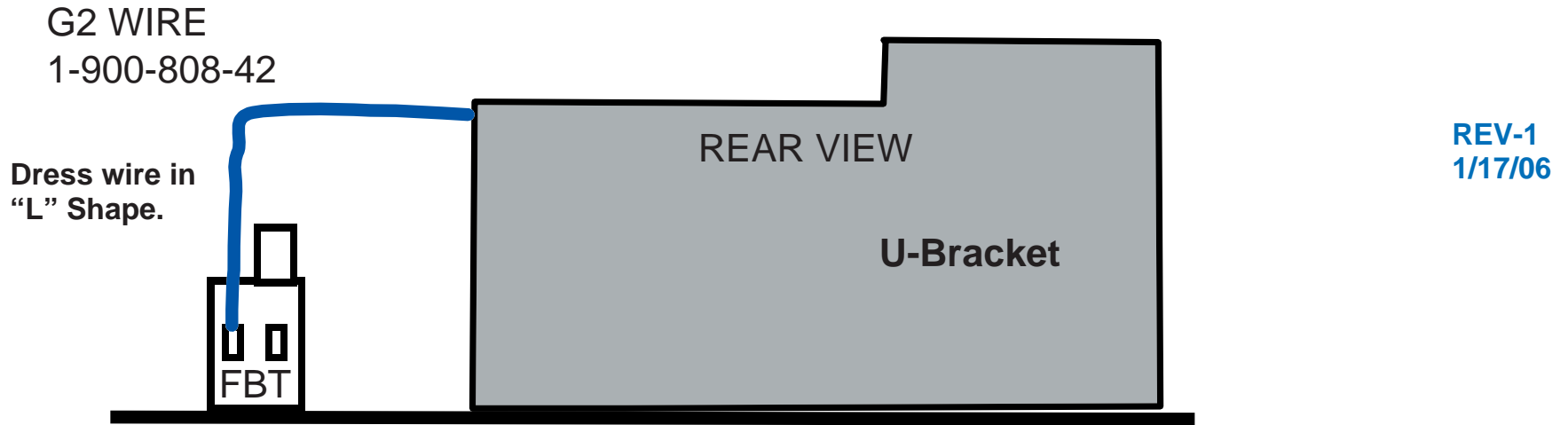
G2 & FOCUS LEAD WIRE DRESSING CAUTION POINT



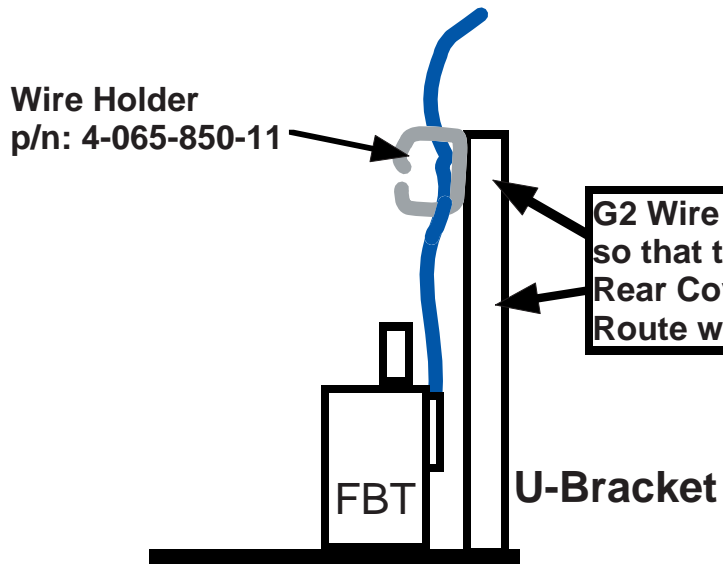
**BEFORE Installing CH-Board to CRT Neck
 PUSH down G2 Lead AND Focus Lead. The wires
 must NOT touch B-side of WY-Board!**

REV-1
 1/17/06

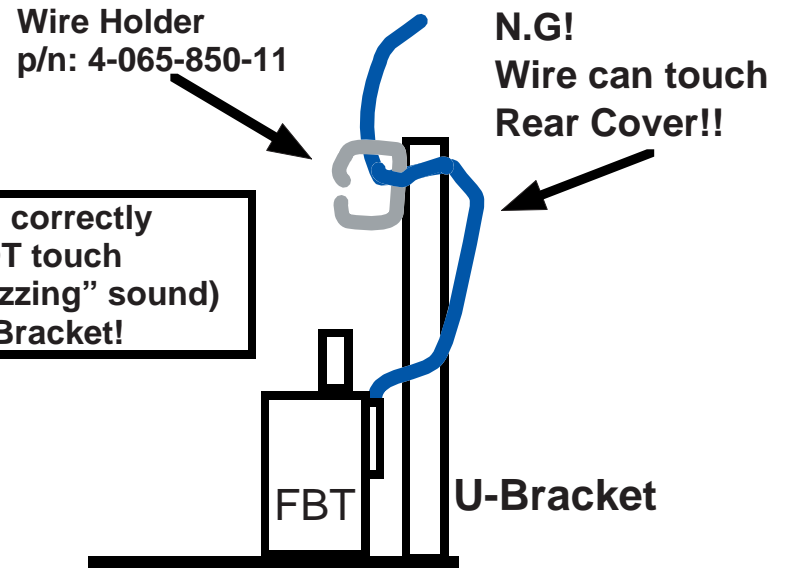
G2 WIRE ROUTING CAUTION POINT



O.K. CONDITION
SIDE VIEW

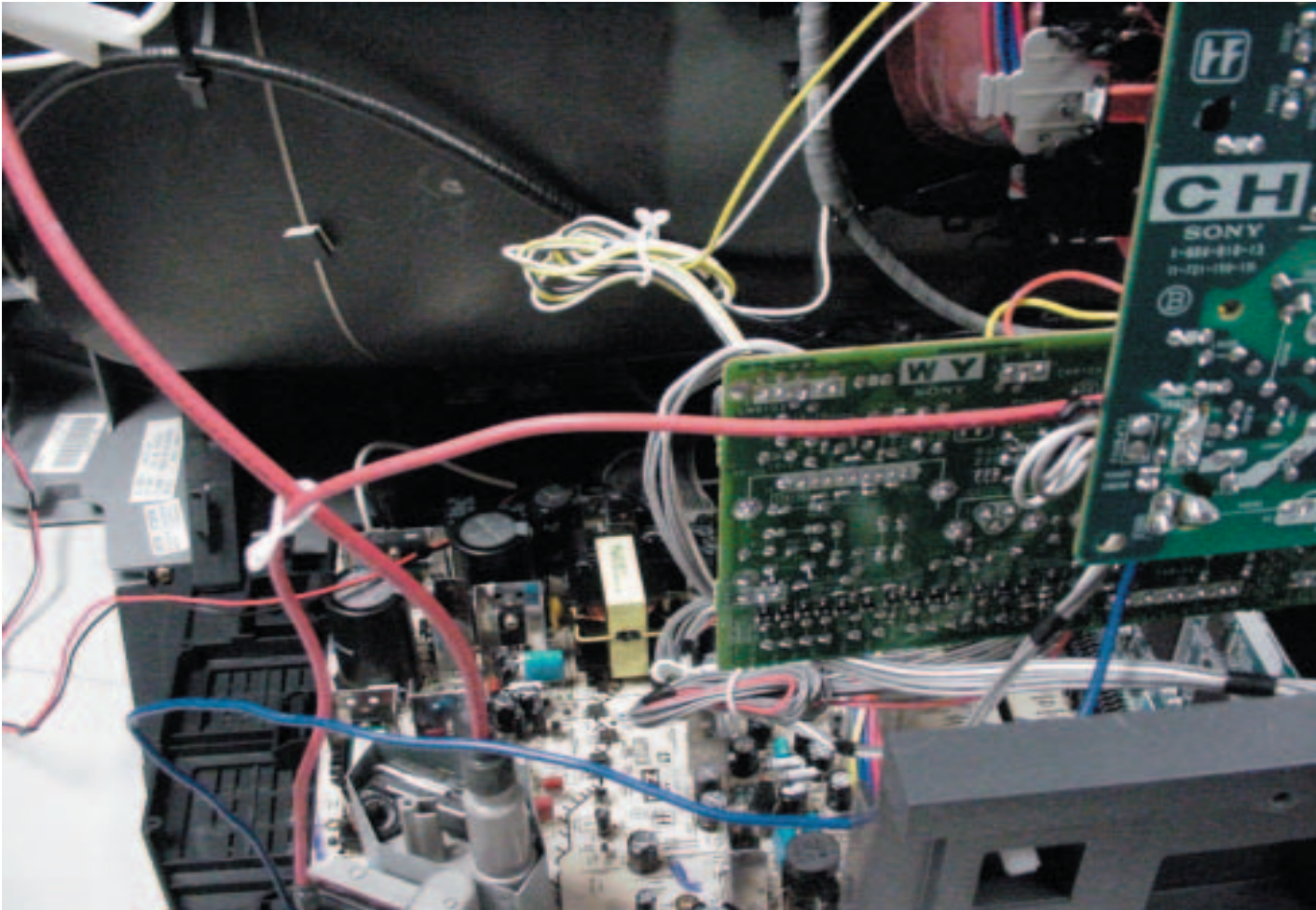


N.G CONDITION
SIDE VIEW

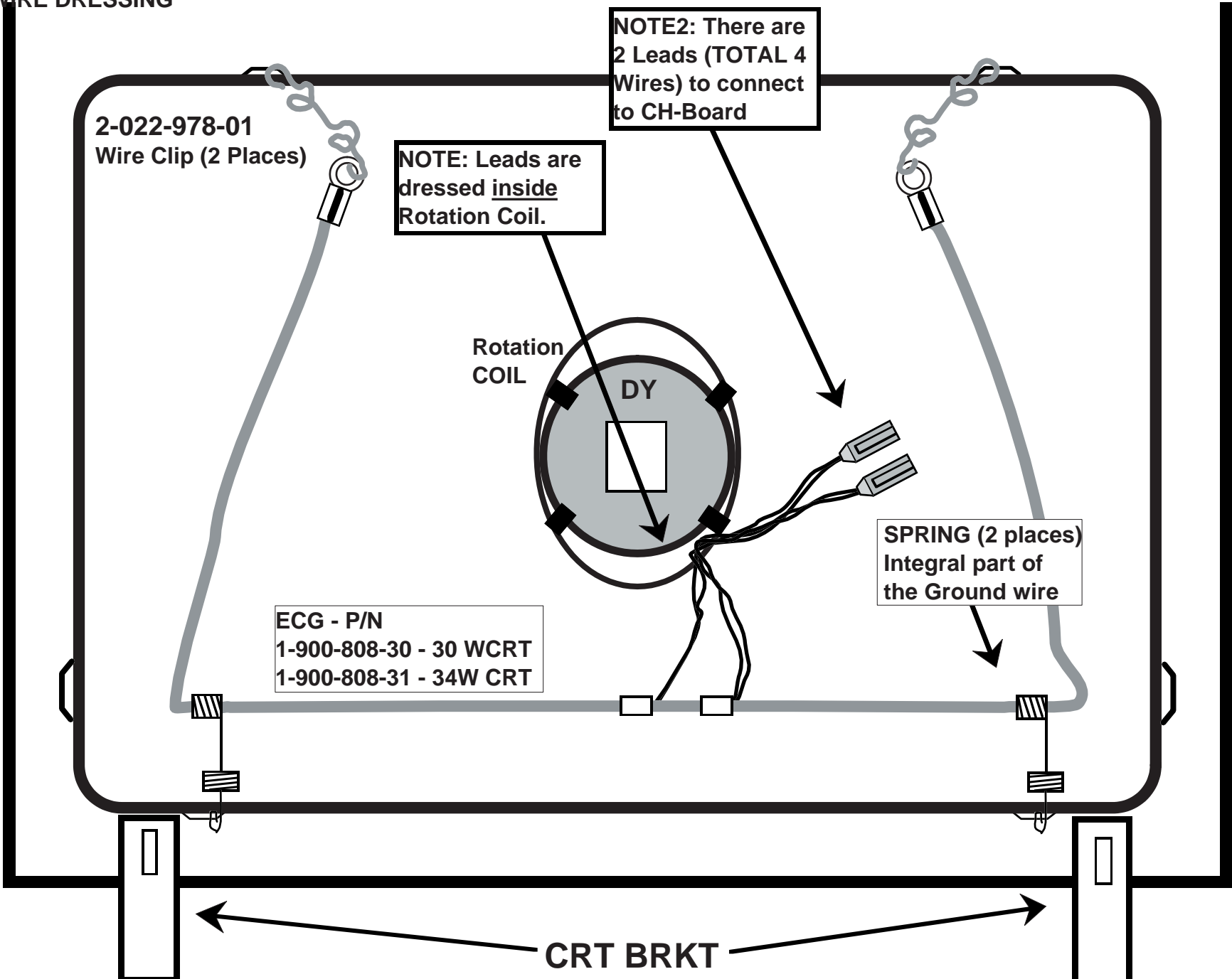


**G2 Wire MUST be routed correctly
so that the wire does NOT touch
Rear Cover (Causes "Buzzing" sound)
Route wire in front of U-Bracket!**

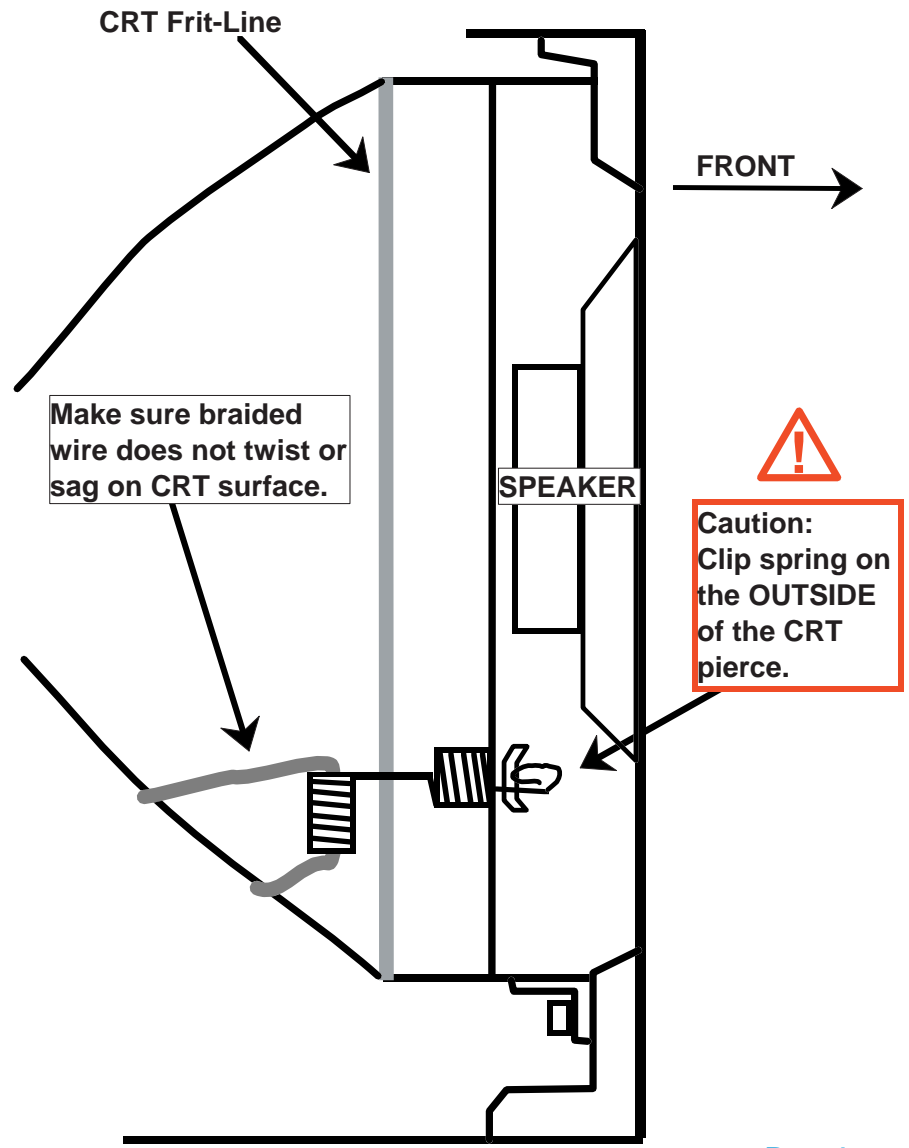
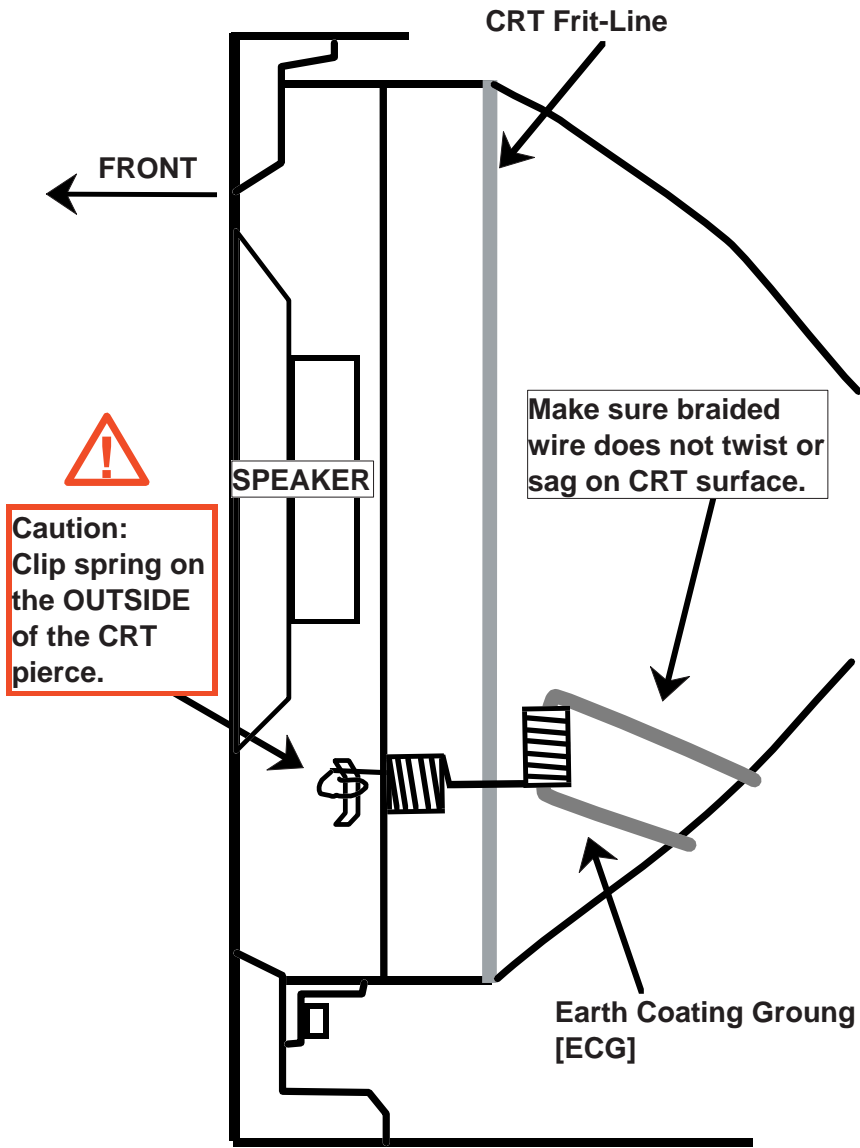
FOCUS LEAD WIRE DRESSING



ECG WIRE DRESSING

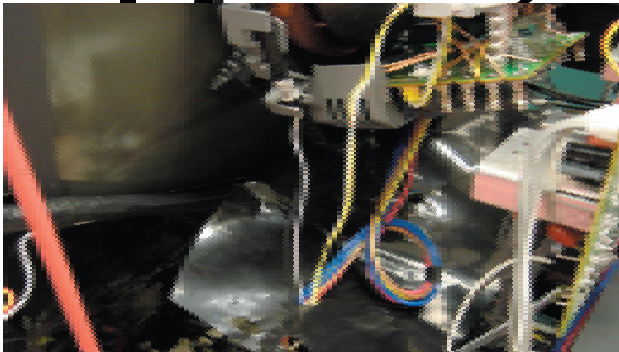
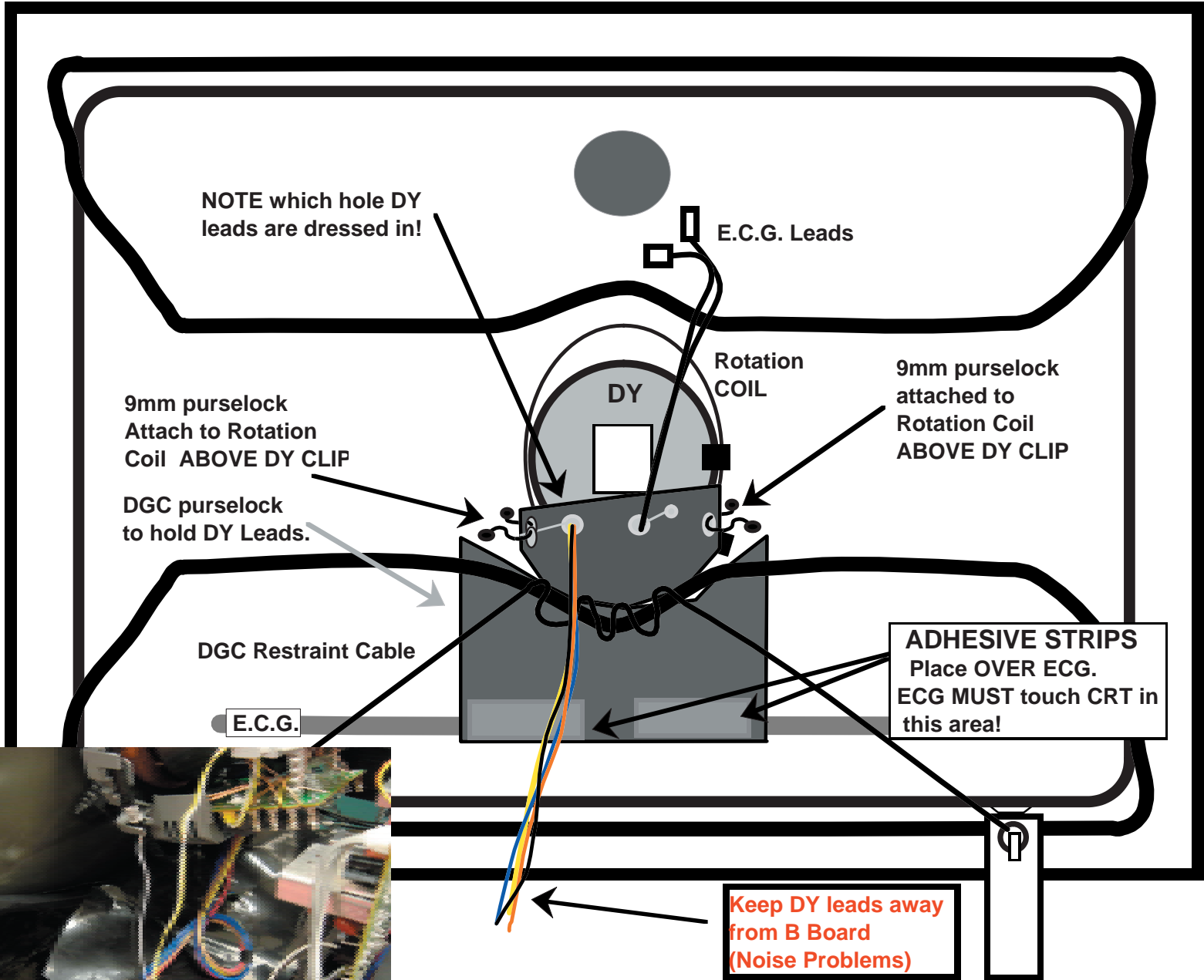


ECG ASSEMBLY CAUTION POINTS

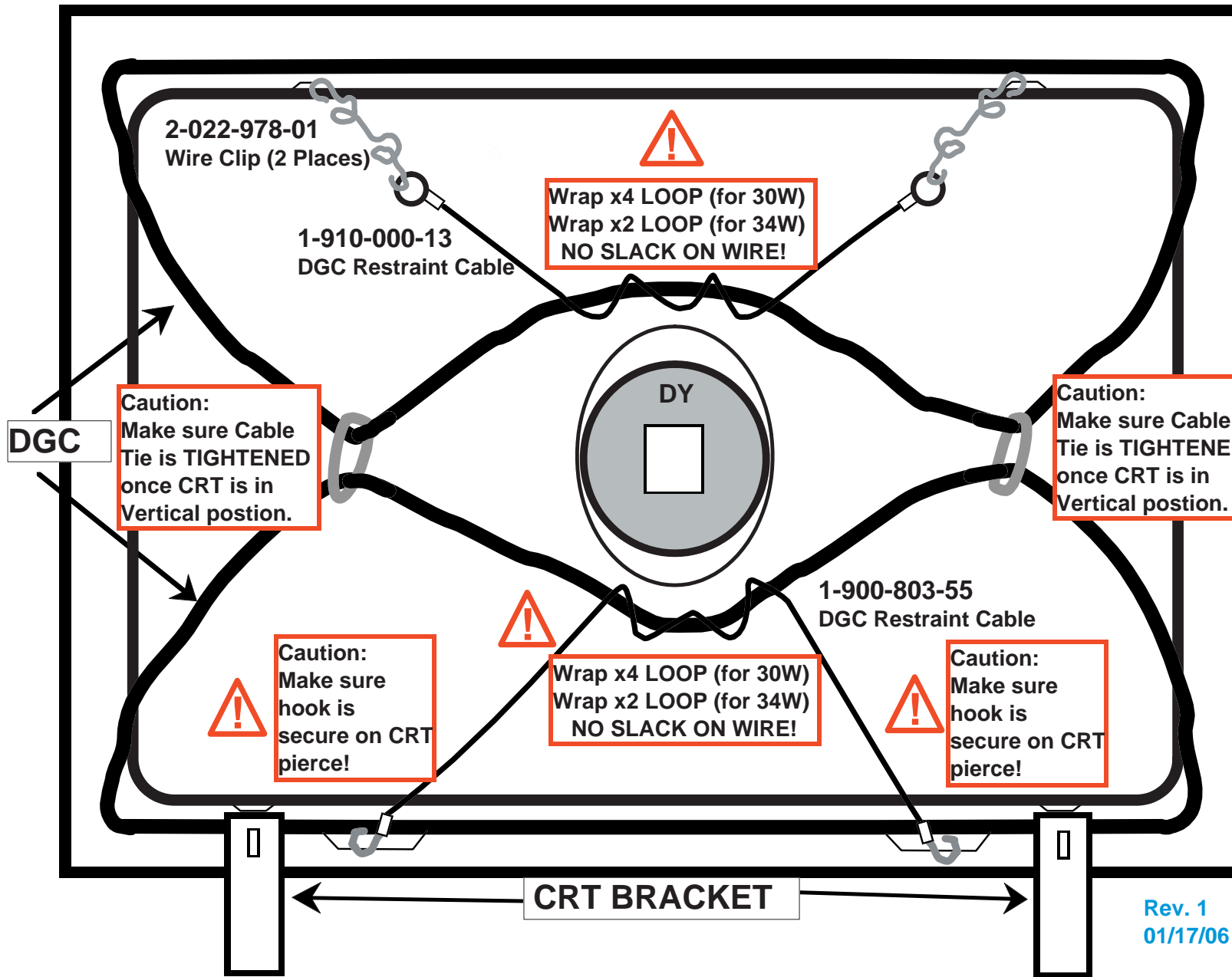


Rev. 1
1/17/06

DY SHIELD DRESSING



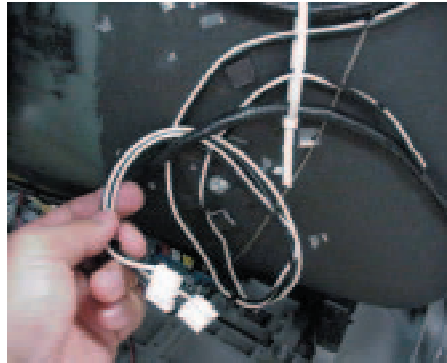
DGC ASSEMBLY CAUTION POINT



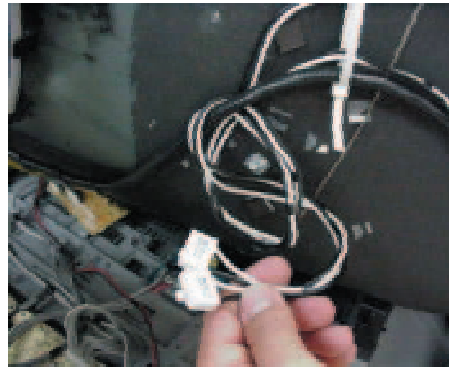
Rev. 1
01/17/06

DCG LEAD WIRE DRESSING

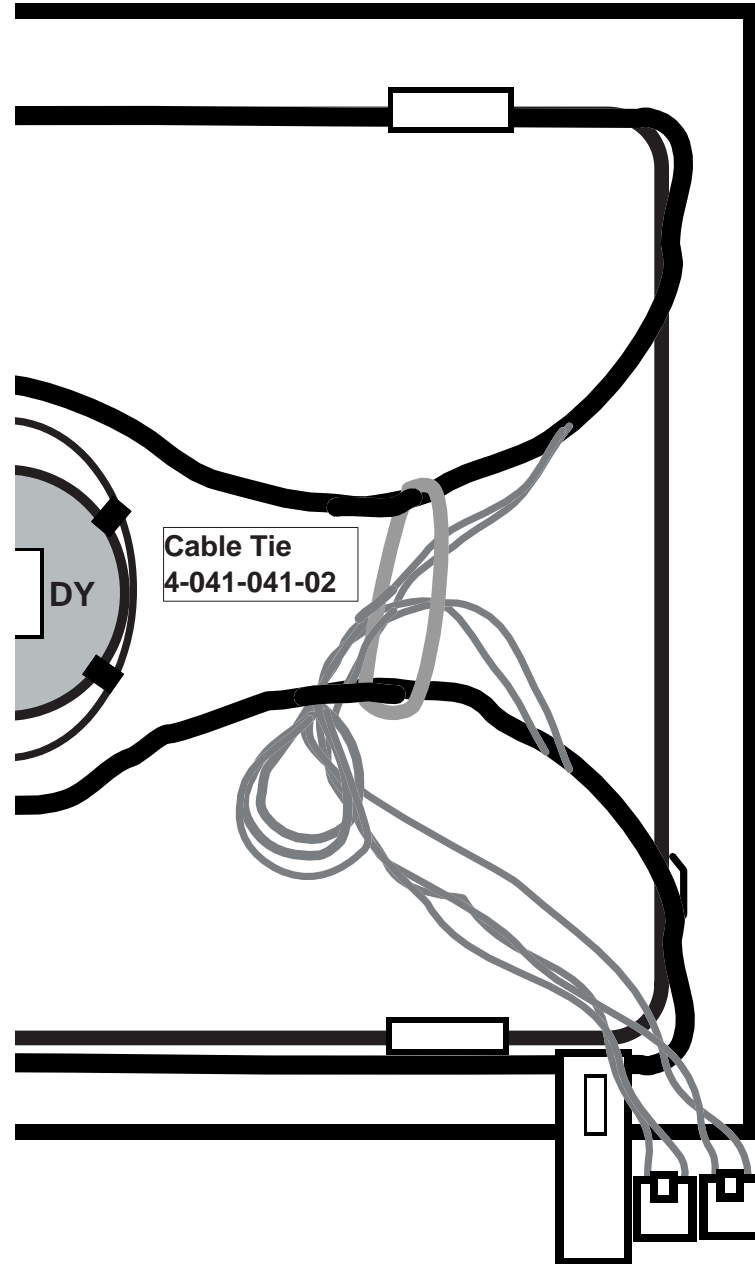
STEP 1:
Make a loop in leads
and route loop **BEHIND**
The DGC Coil.



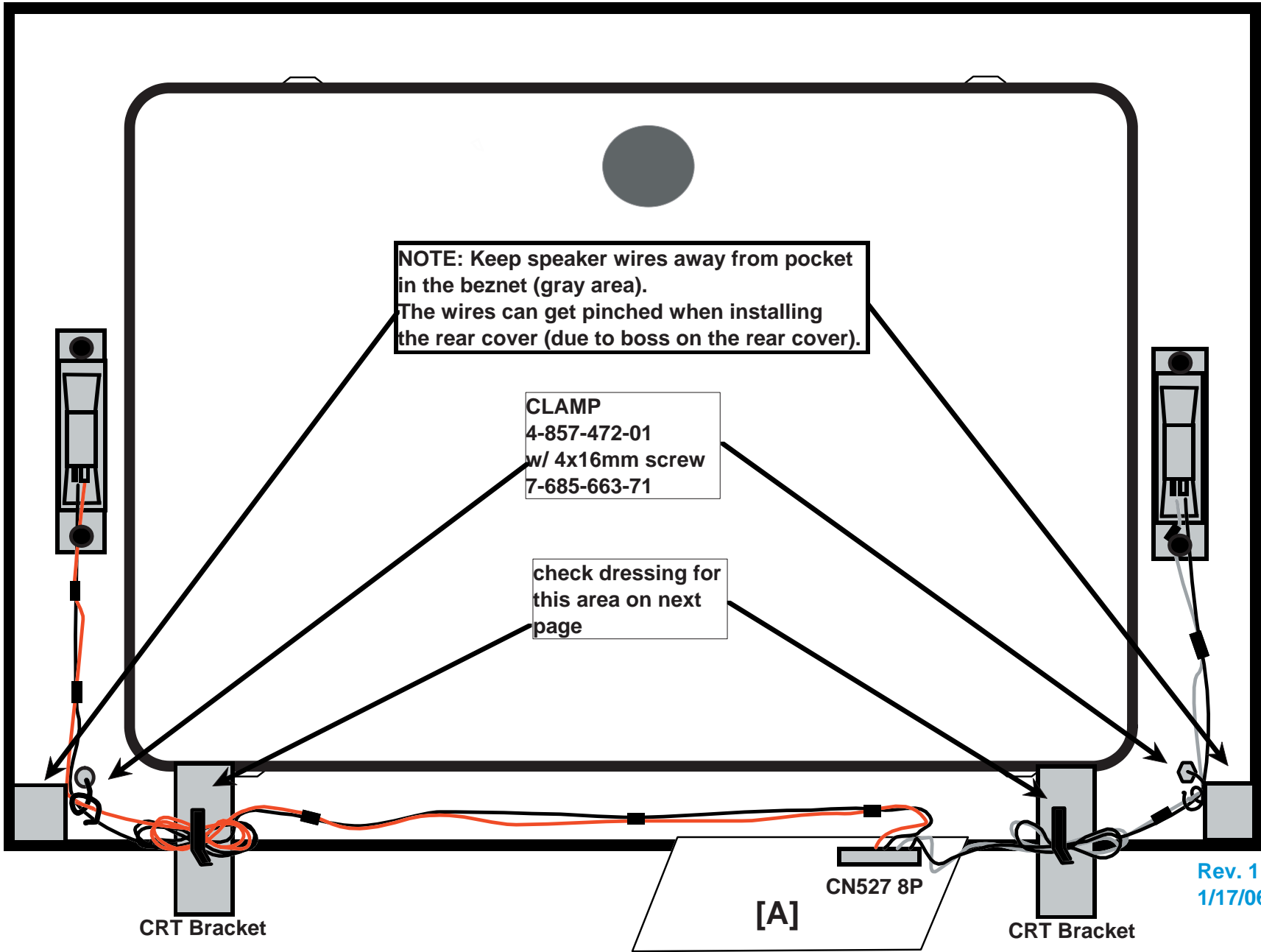
STEP 2:
Thread both connector
 housings through the
 loop in lead wires.

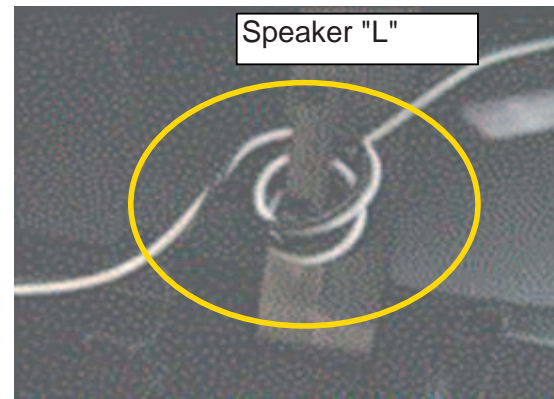
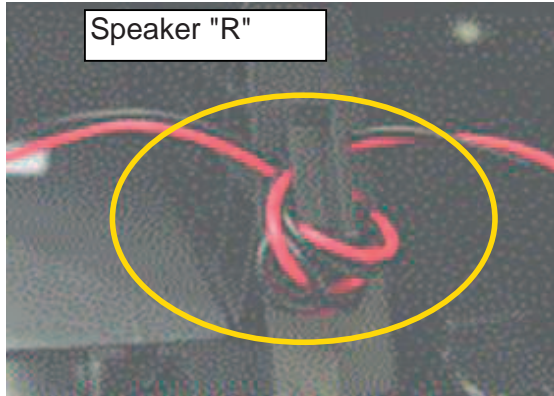


STEP 3:
Plug in connector
 housings into the
 [AZ] Board using the
 loop to take up slack.

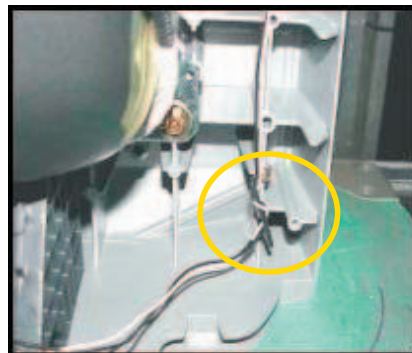
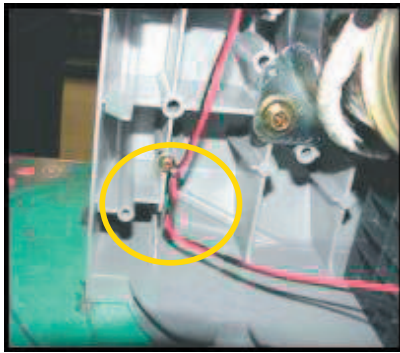


SPEAKER ASSEMBLY WIRE DRESSING

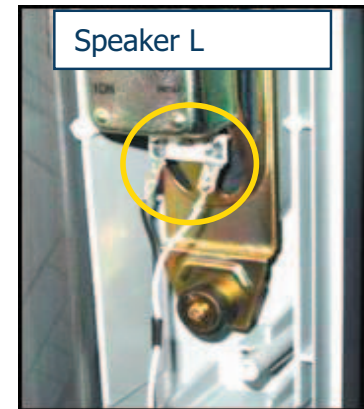
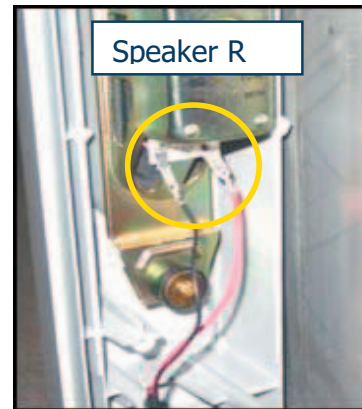




Route the speaker cables(Left and Right) through their respective hooks in the CRT supports, as shown in picture.



Dress the speaker cables (Left and Right) through their respective **clamp 4-857-472-01** as shown in picture. The position of cable must kept vertical.



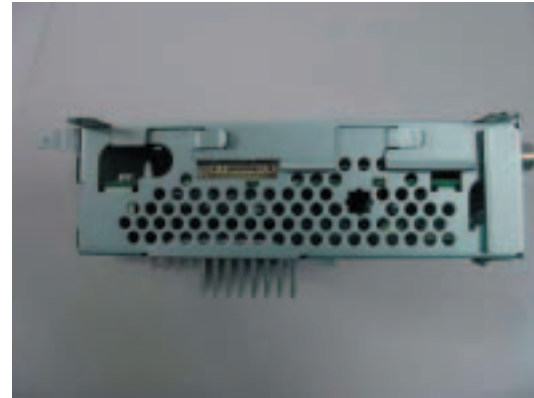
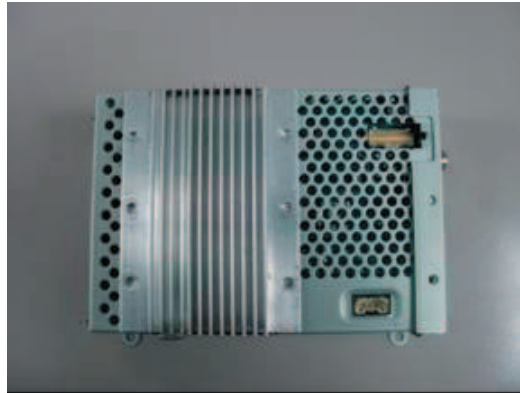
Connect the speaker cables as shown in picture"
 Speaker R: Red (+), Black (-)
 Speaker L: White (+), Black (-)

DMB BLOCK ASSEMBLY (Q BOX ASSEMBLY) OVERVIEW



DMB BLOCK ASSEMBLY (Q BOX ASSEMBLY) WIRE DRESSING

New DM 2006 have different dimension form previous one (DM 2004). It is smaller and only uses 3 harnesses to connect to chassis.

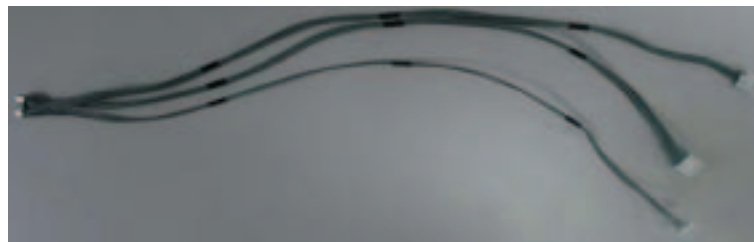


New DM 2006 dimensions

14P connector (Analog Tuner and Digital Audio) →
P/N: 1-910-024-16
Blue & gray

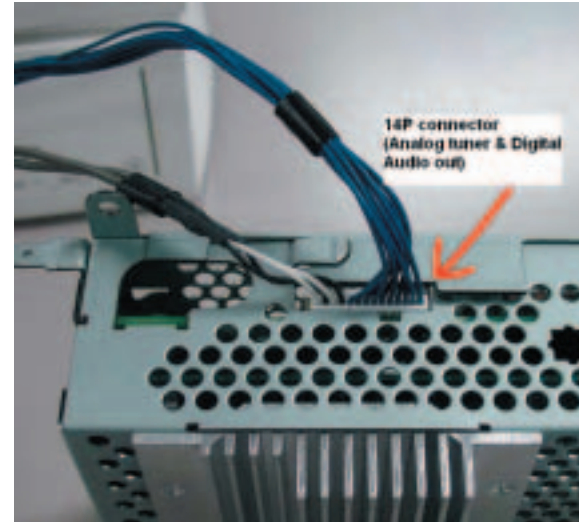
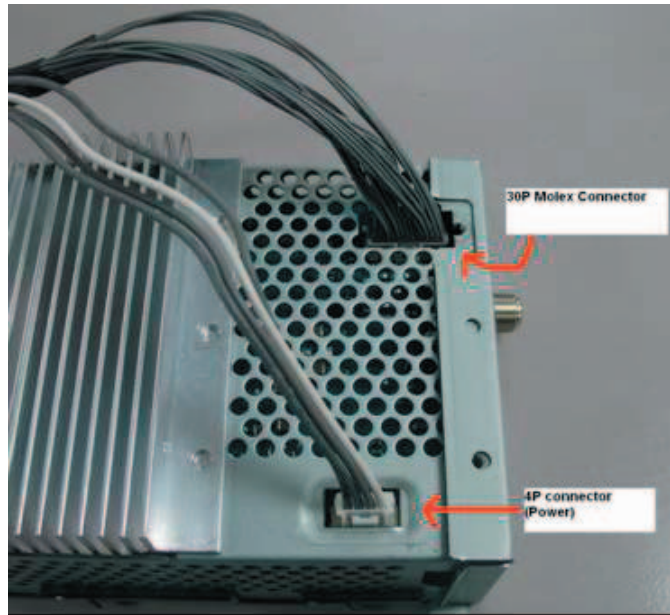
4P connector (Power) →
P/N: 1-910-024-14
Grey

30P Molex connector (Digital tuner, OSD, UART) →
P/N: 1-910-024-13
Green & gray

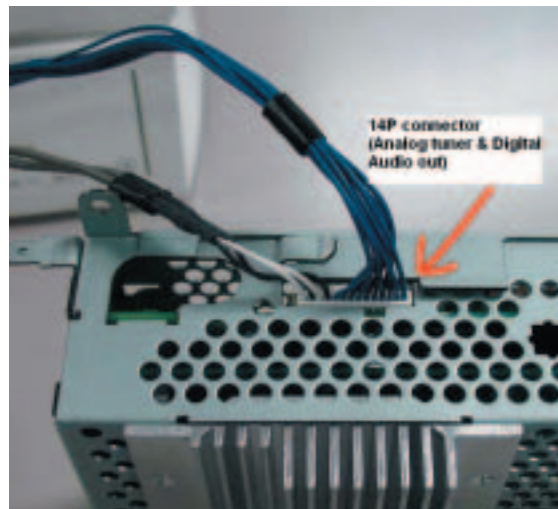


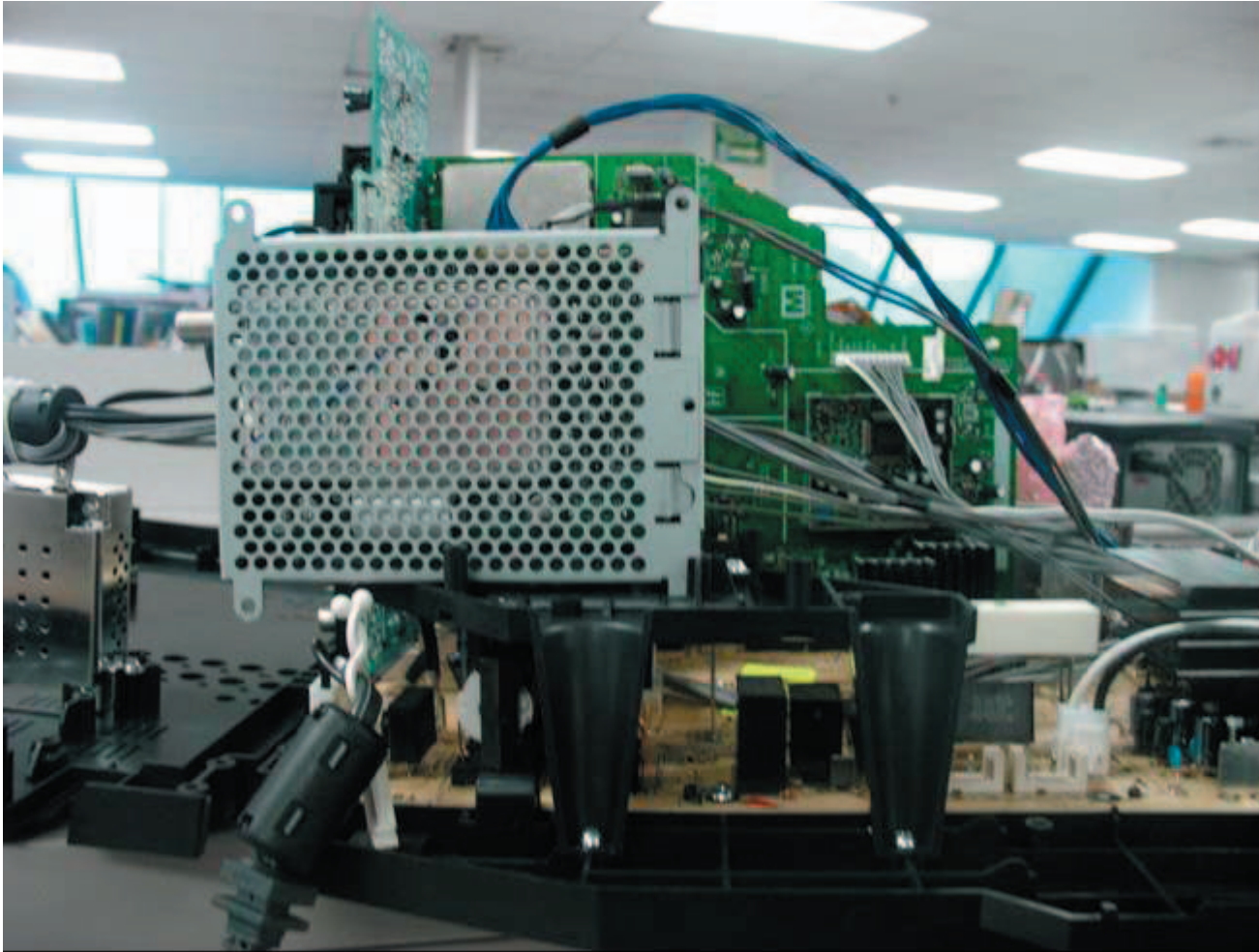
New harnesses to be used with DM 2006

To connect all 3 harnesses to DM 2006 follow bellow pictures:

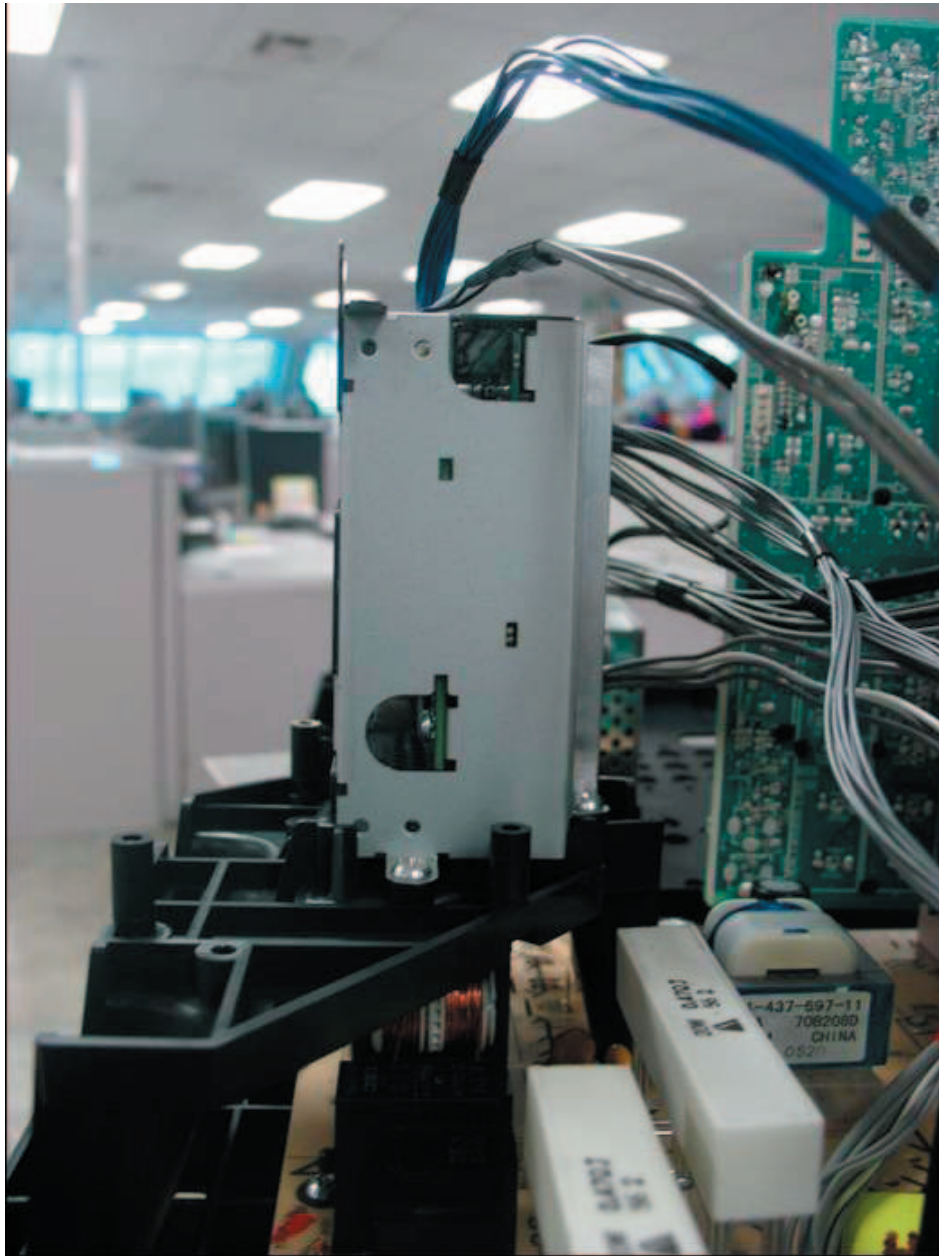


Location of connectors for new DM 2006

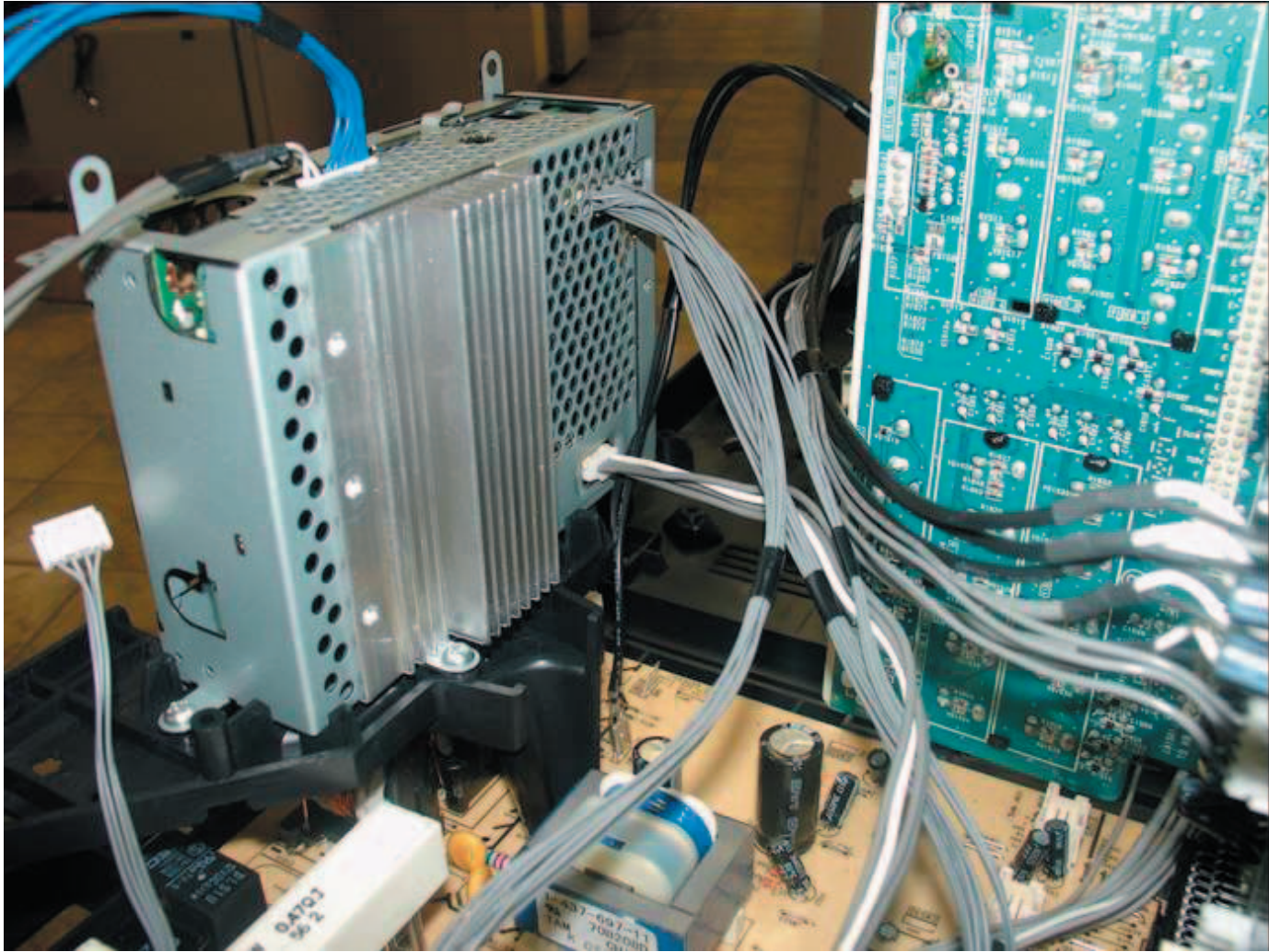




Position of DM 2006 is similar as previous DM. It is also on a bracket above A board. This time RF input is facing antenna bracket so no RF connector is needed this time. As no POD will be used, no antenna switch is needed as well. Check next pictures for DM position on DA4 chassis

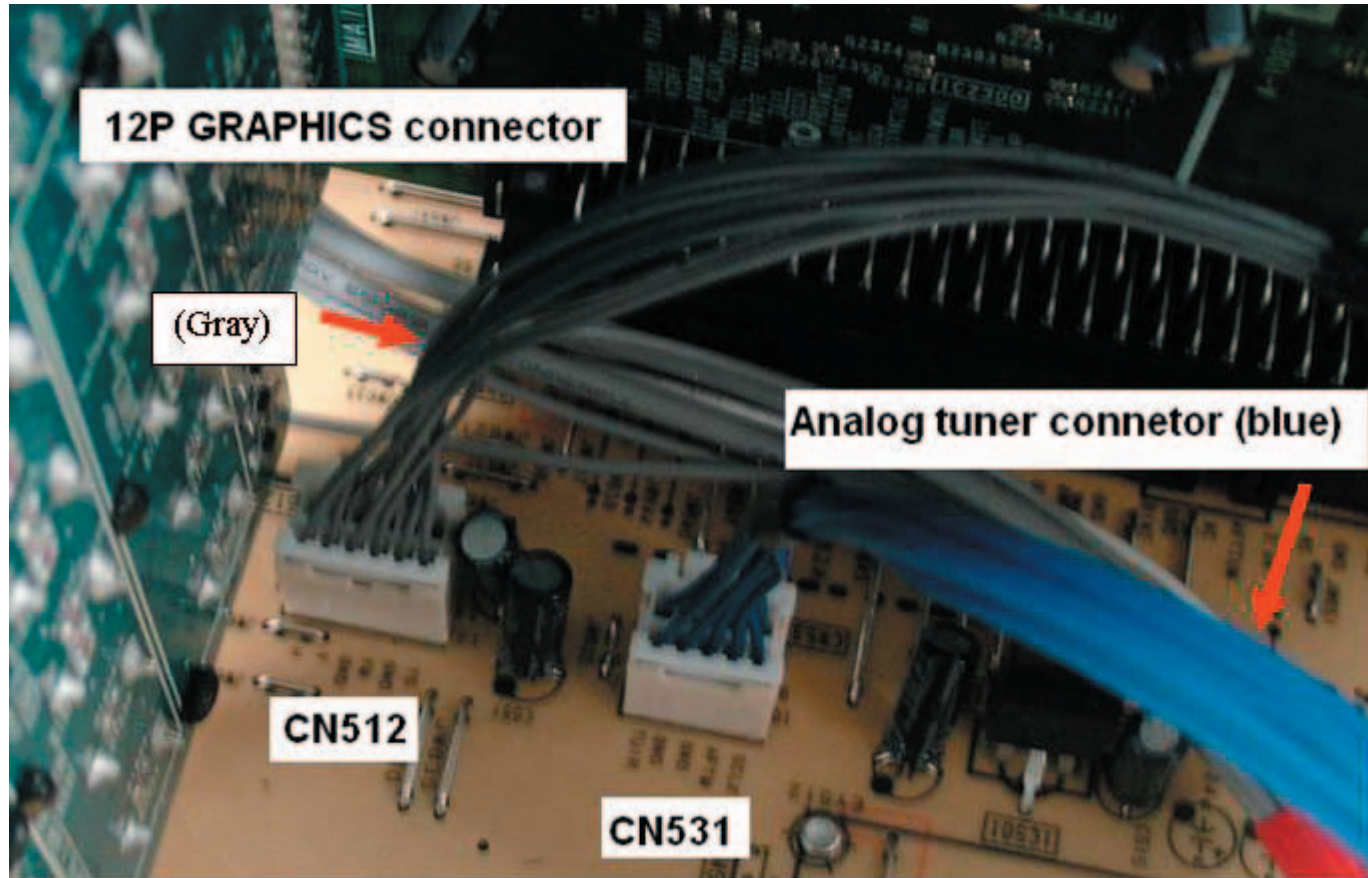


Position of new DM 2006 on new bracket



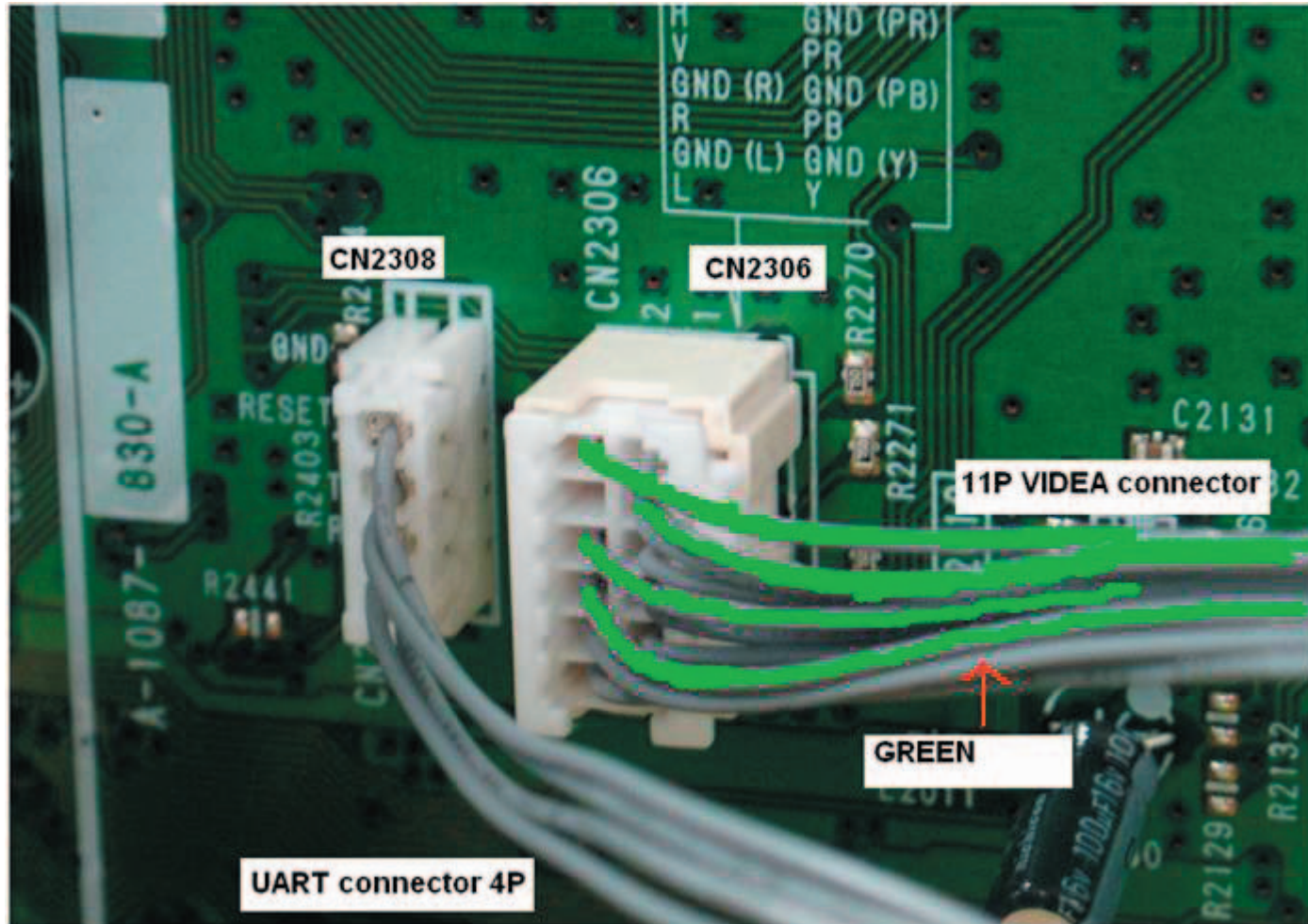
Position of DM 2006 on new bracket

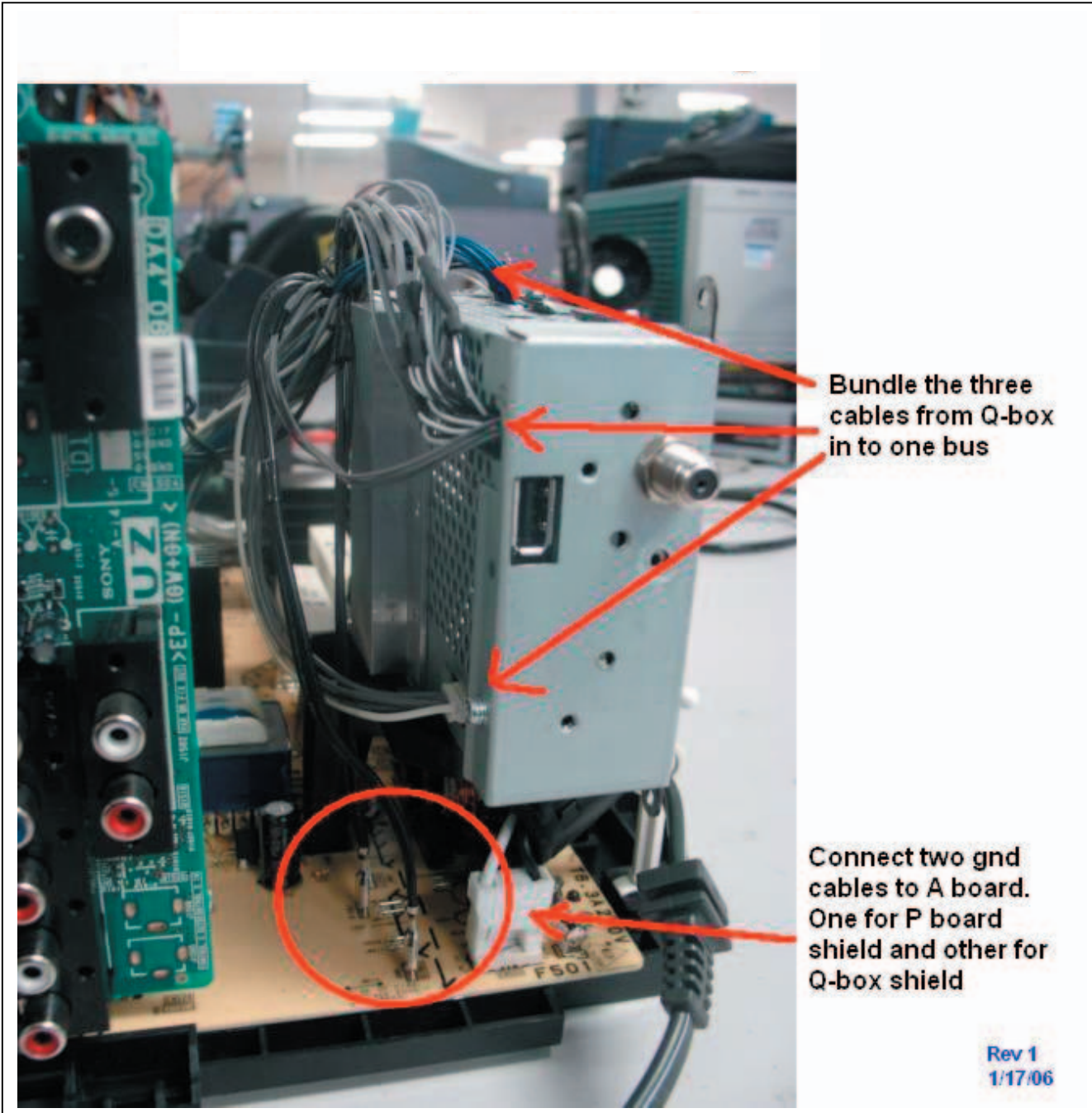
Connect the 12P GRAPHICS connector to CN512 on A board, next to the Analog Tuner connector (blue). Note 12P graphics connector is the shielded gray cable coming from the 30P connector of Q-box



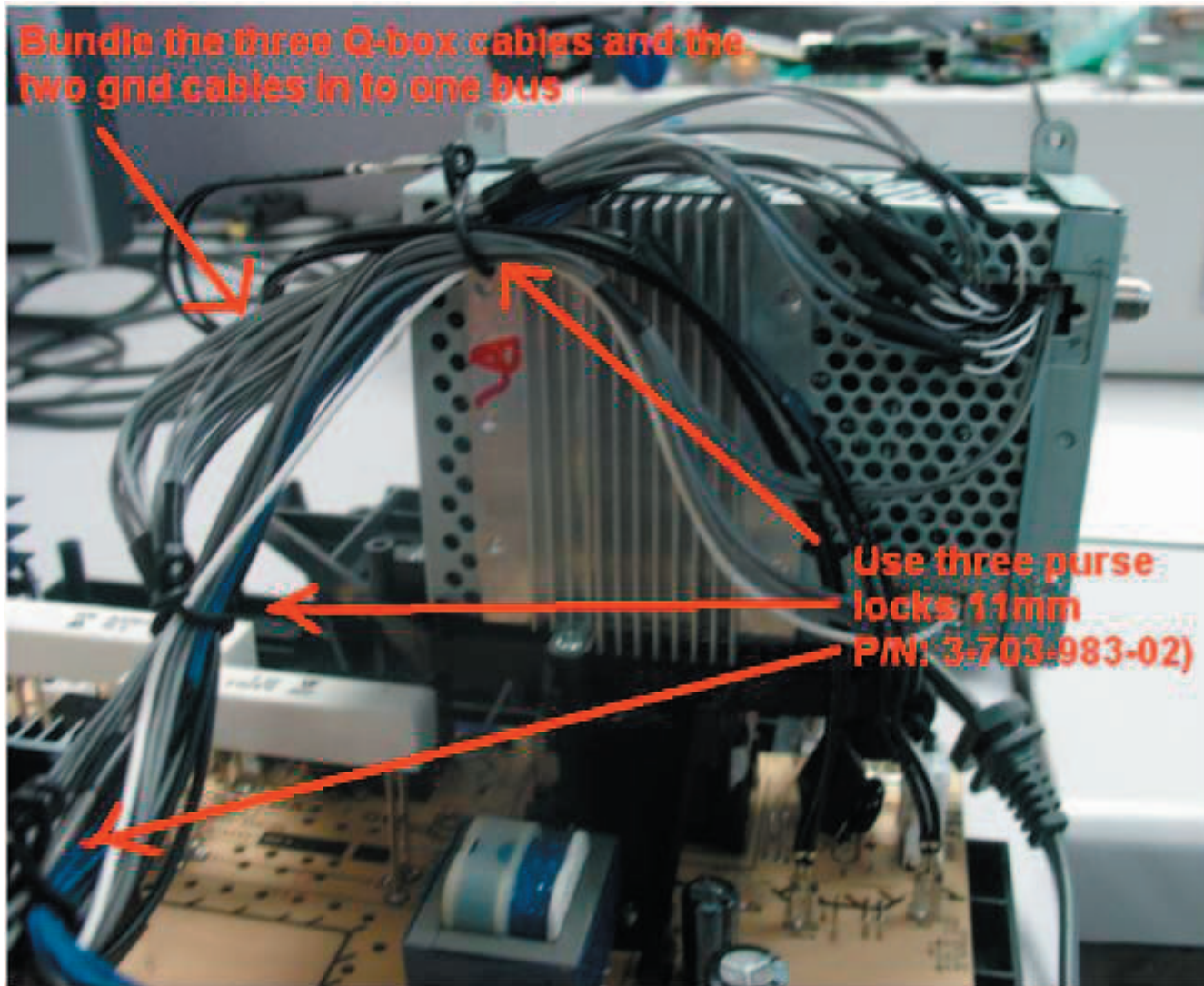
Connection of 12P GRAPHICS harness

Connect the 11P VIDEO connector to CN2306 on M board. Note that the 11P video cable is the shielded green one coming from the 30P connector from Q-box



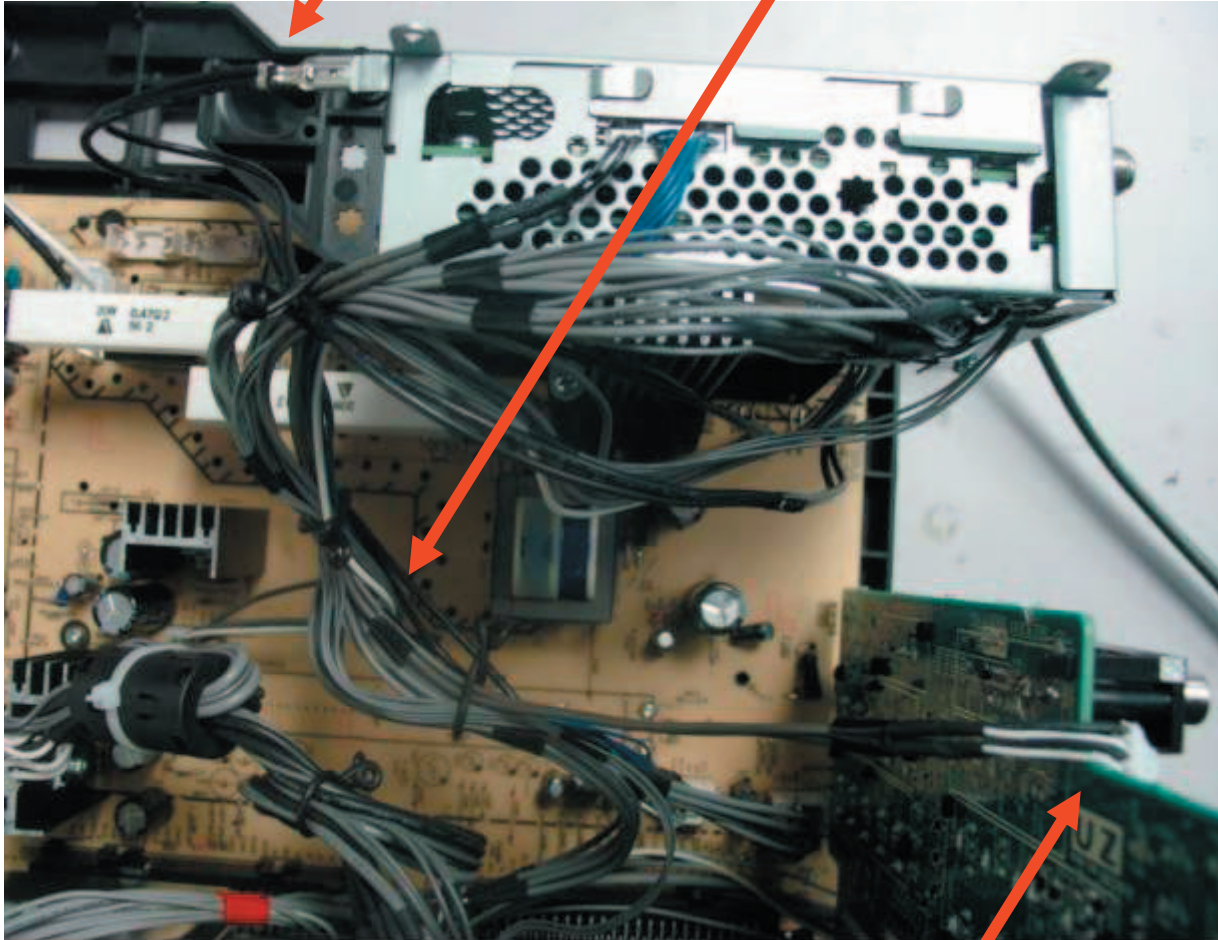


Merge the three cables coming out of Q-box plus the two gnd cables from A board. Use 3 purse lock 11mm (p/n: 3-703-983-02)



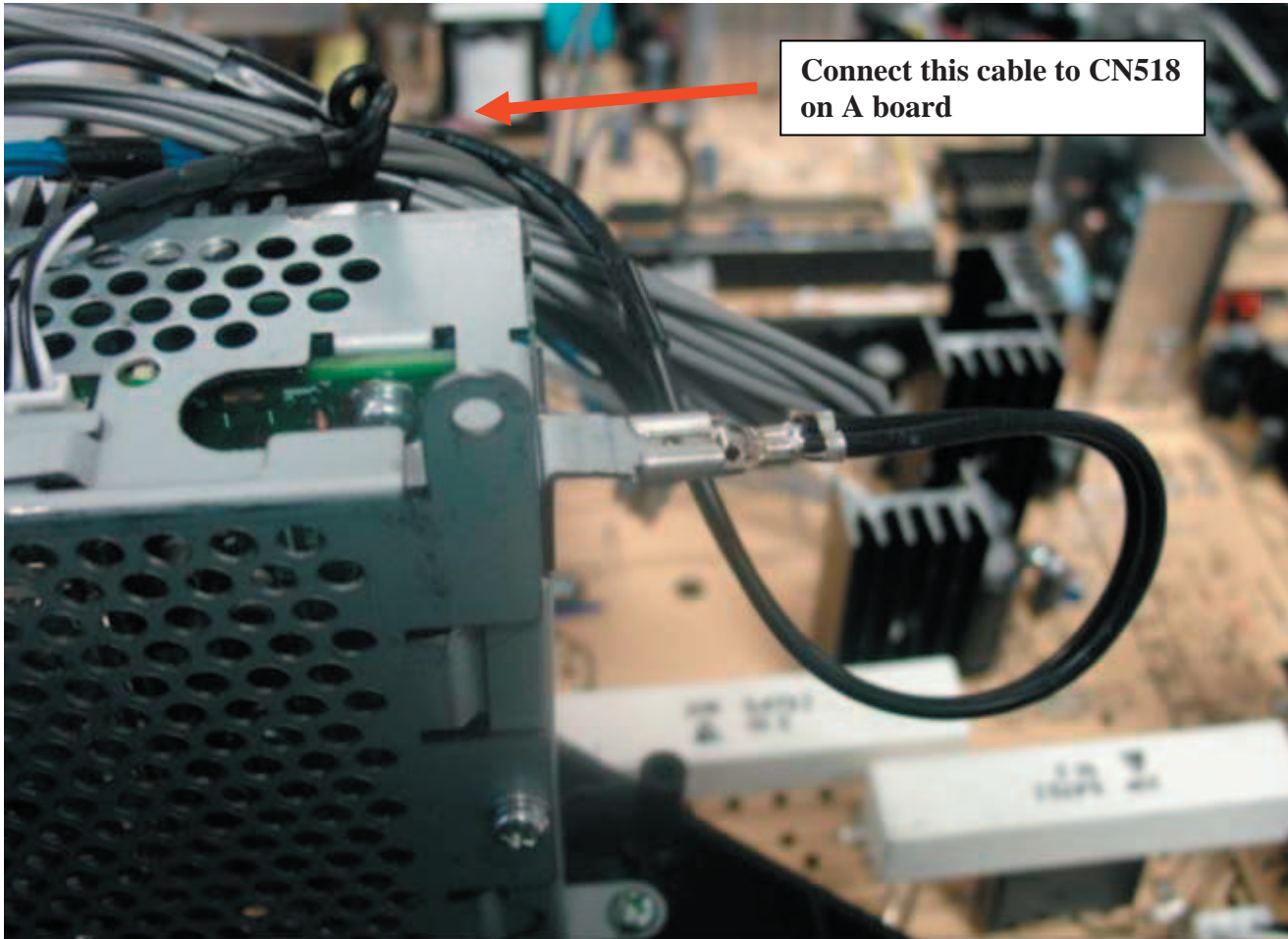
Route all cables from Q-box close to it, as shown in bellow picture.

Connect gnd cable from A board to Q-box shield

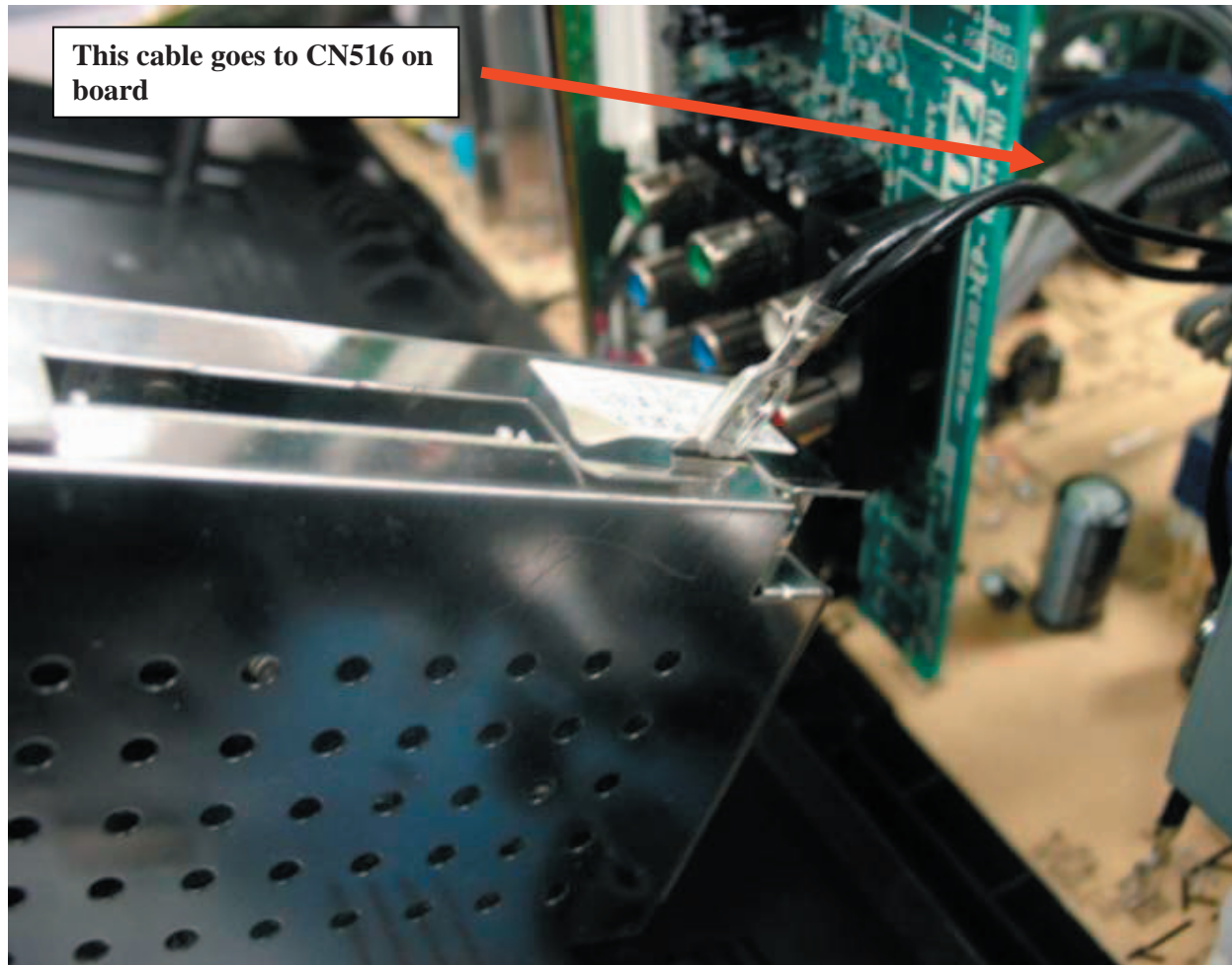


Connect four pin shielded cable from Q-box to UZ board on top of audio jack

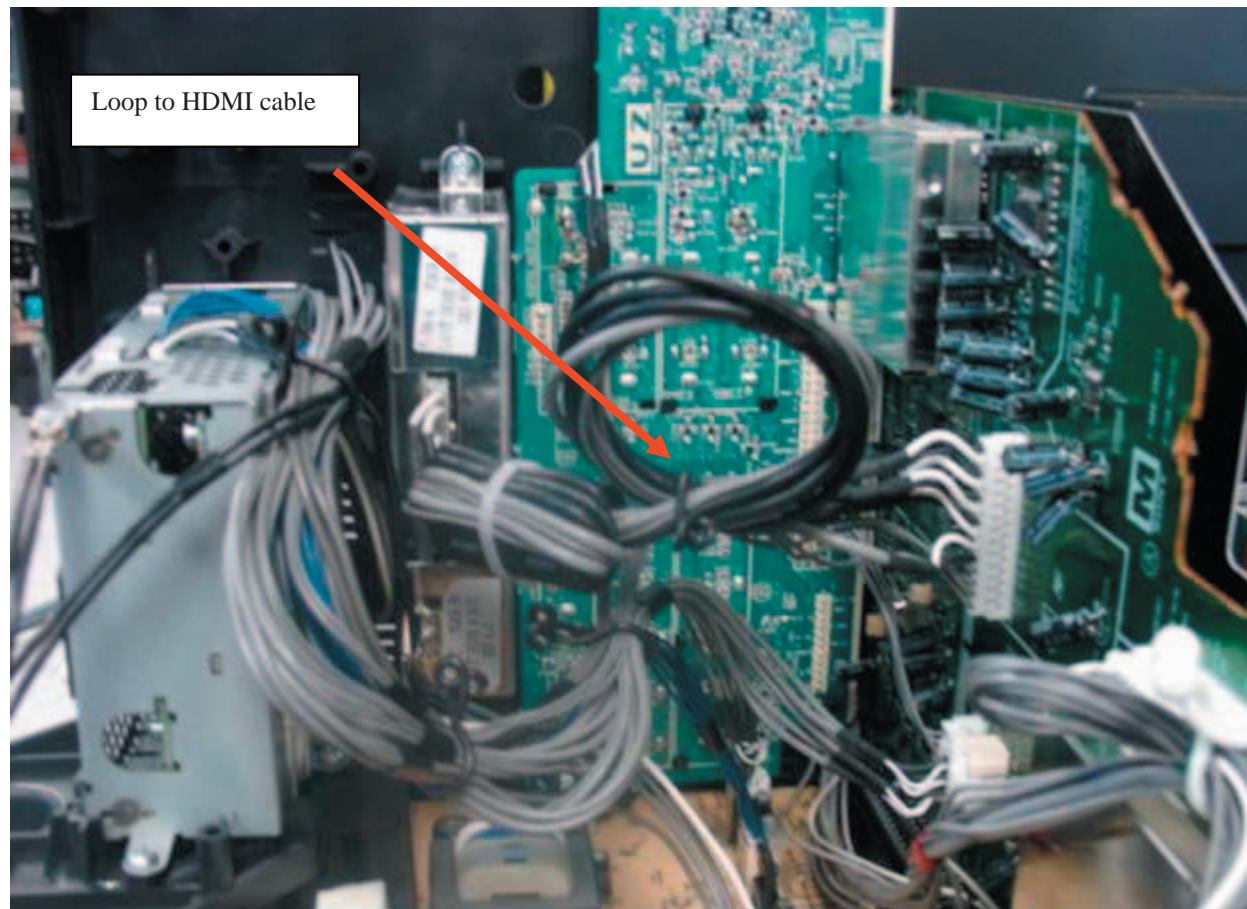
Connection of gnd cable from CN518 on A board. Insert to tab connector of Q-box shield case



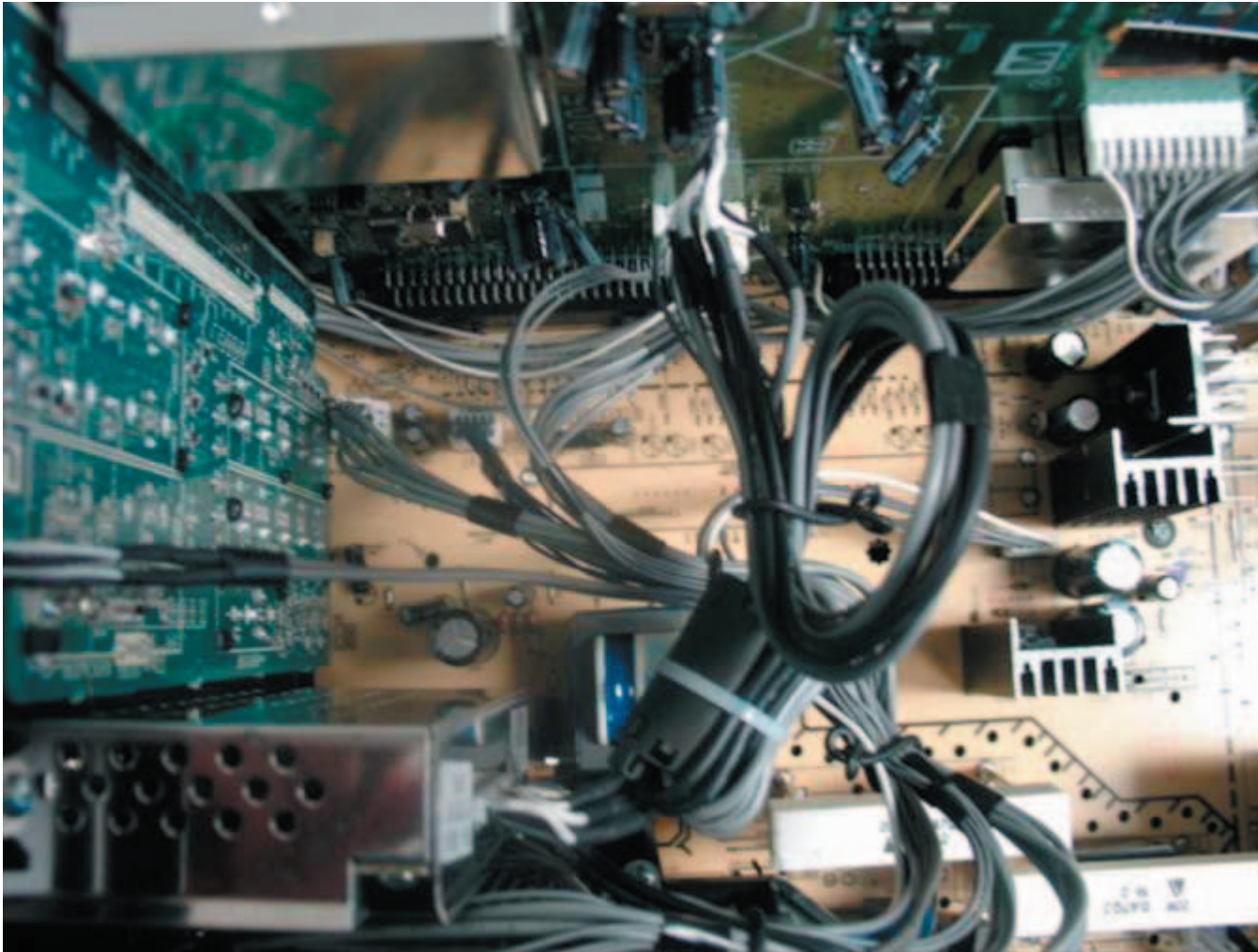
Connect the remaining gnd cable form CN519 on A board to P board shield case as show in bellow picture



Make a loop to HDMI cable as shown in picture, use one 9mm purse lock
(P/N: 3-703-982-02)

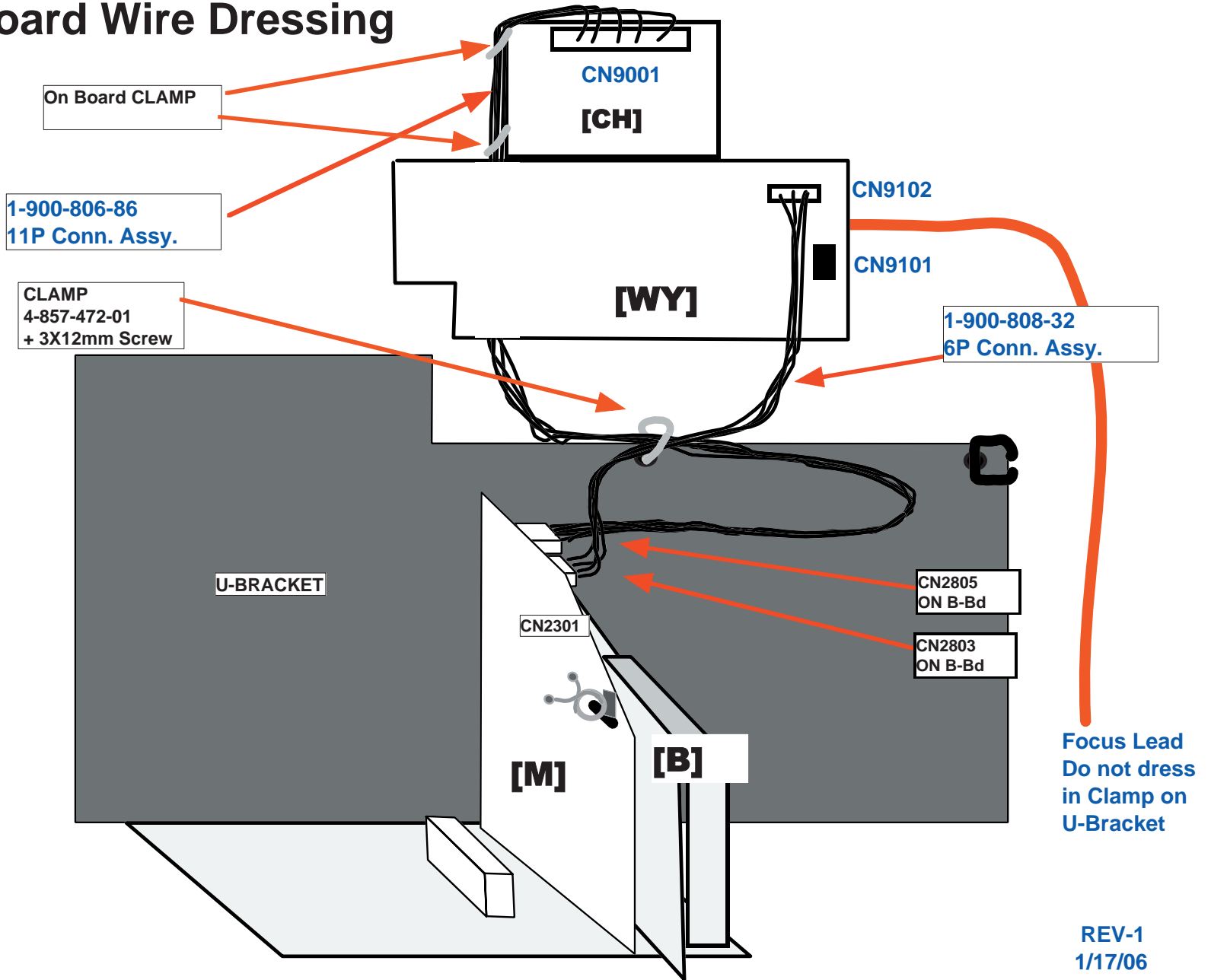


HDMI cable loop



B BOARD WIRE DRESSING

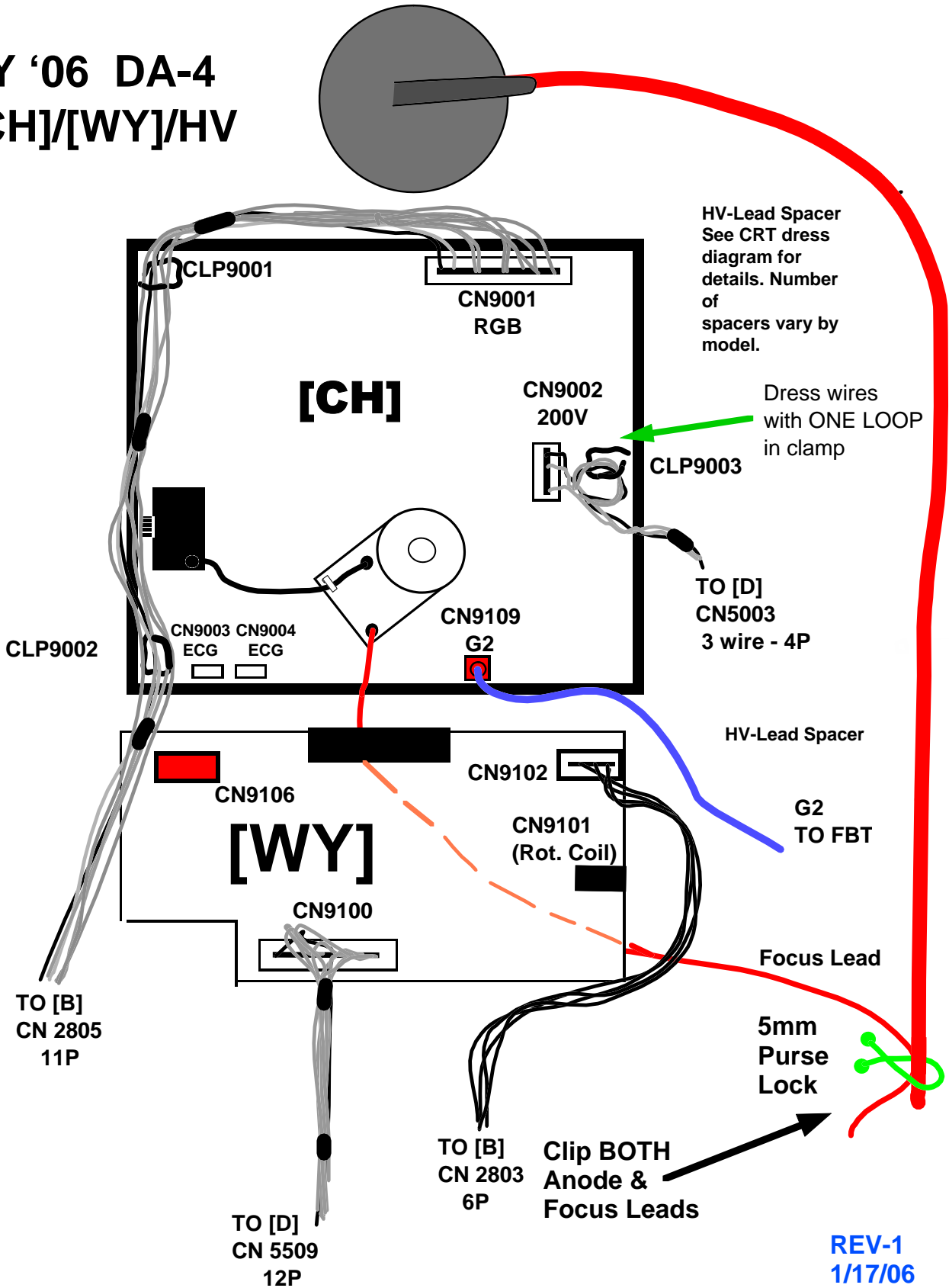
B board Wire Dressing



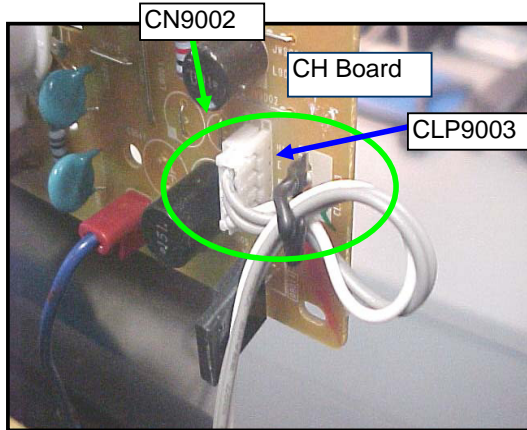
REV-1
1/17/06

CH BOARD AND WY BOARD WIRE DRESSING

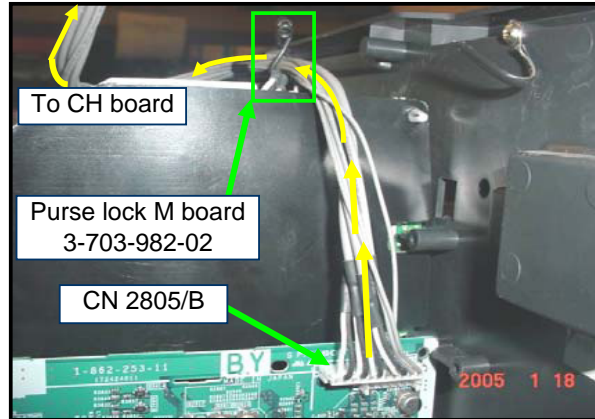
FY '06 DA-4
[CH]/[WY]/HV



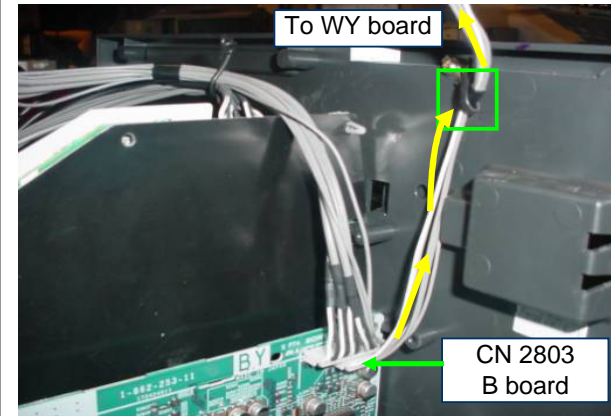
B BOARD, CH BOARD, AND WY BOARD WIRE DRESSING



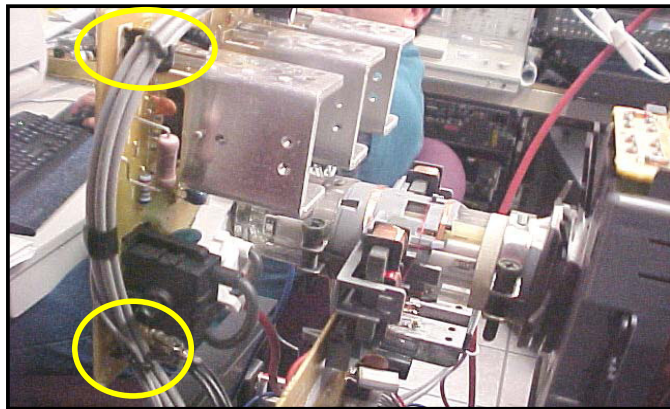
Dress connector assy CN9002/CX into clip wire CLP9003 as shown in picture



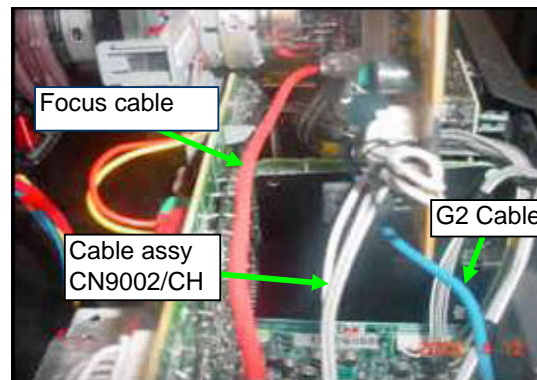
Dress the cable assy CN 9001/CX-CN2805/B (11 pin) into the purse lock of MZ board as shown in picture.



Dress the cable assy CN 9102/WY-CN2803/B (6 pin) into the clamp 4-857-472-01 attached to UZ bracket as shown in picture.



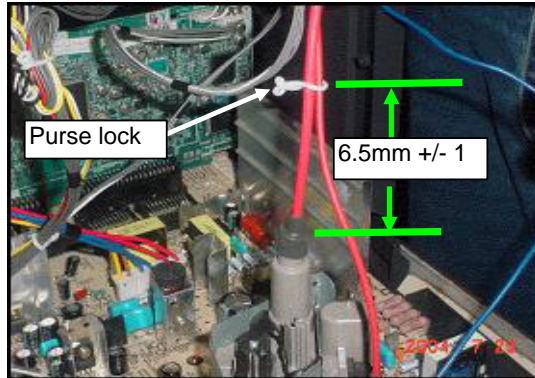
Route cable assy CN9001/CH - CN2805/B through clip wires CLP9001 & CLP9002 as shown in pictures



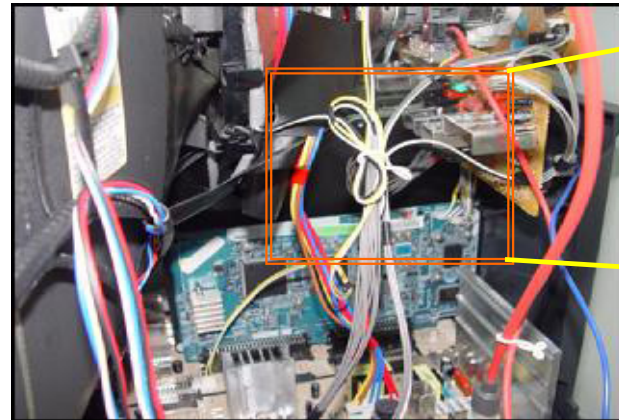
Dress the cables like shown the picture 1st HV Cable, 2nd Cable assy CN9002/CH and 3rd G2 cable.

Rev 1
1/17/06

FOCUS, ROT COIL AND G2 CABLE DRESSING



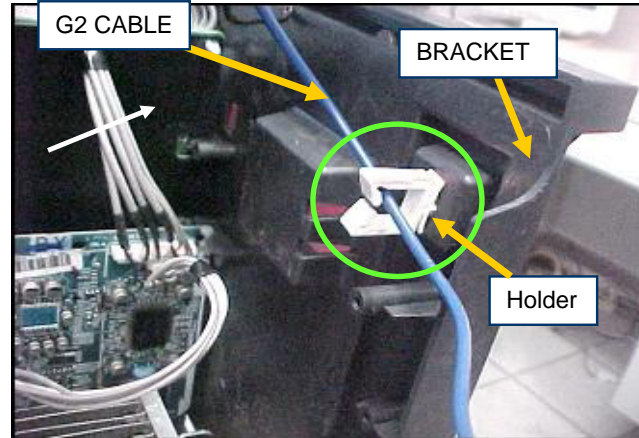
Cable focus with anode cap put purse lock **3-703-891-02**(5 mm) at 7.5 cm of the insertion of FBT.



Dress the rotation coil (CN 9101-WY), digital convergence (CN 903/A-DY), 200volts cable (CN5003/D-CN9002/CH) and QP cable(CN5509/A-CN9100/WY) with a **purse lock 3-703-983-02 (11mm)** like shown the picture.

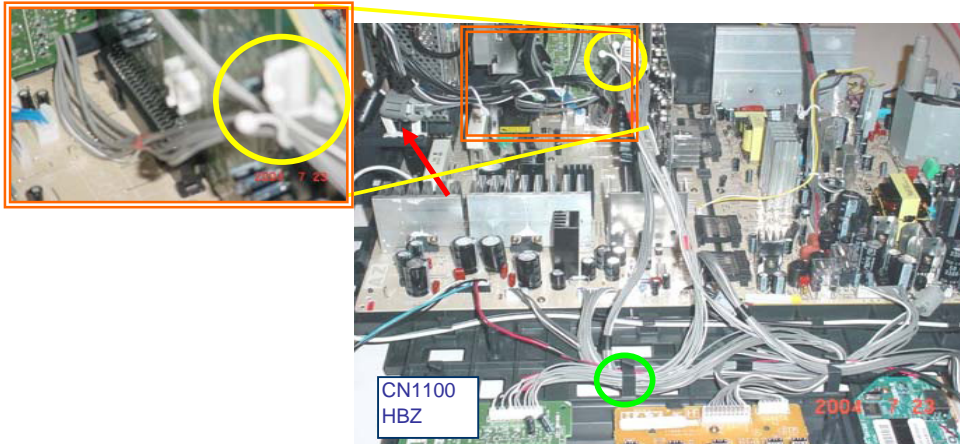


Purse lock must be placed **7cm +/-1cm** over HV cap.

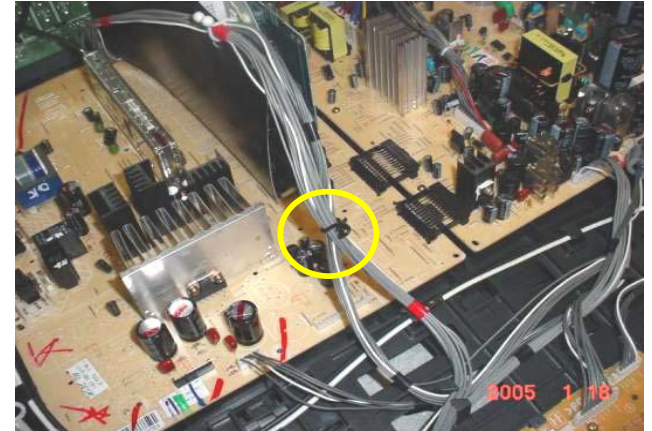


Dress the G2 cable CN9009-FBT with the **holder wire 4-065-850-11** attached to UZ Board bracket.

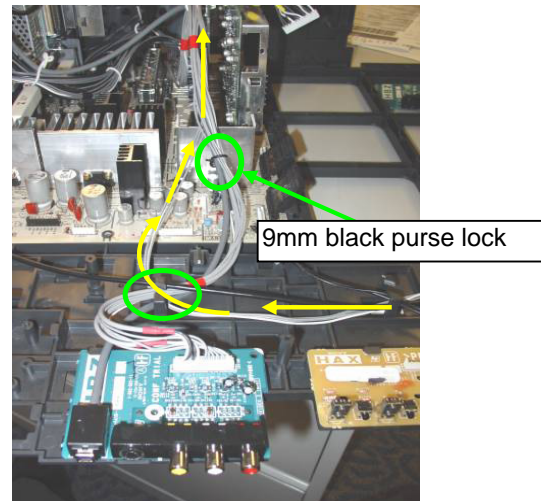
H BRACKET WIRE DRESSING



Dress the cable assy from CN1100/HBZ to CN1501/UZ through H Bracket Hook #2 and M **purse lock 4-355-912-21** as is shown in the picture.

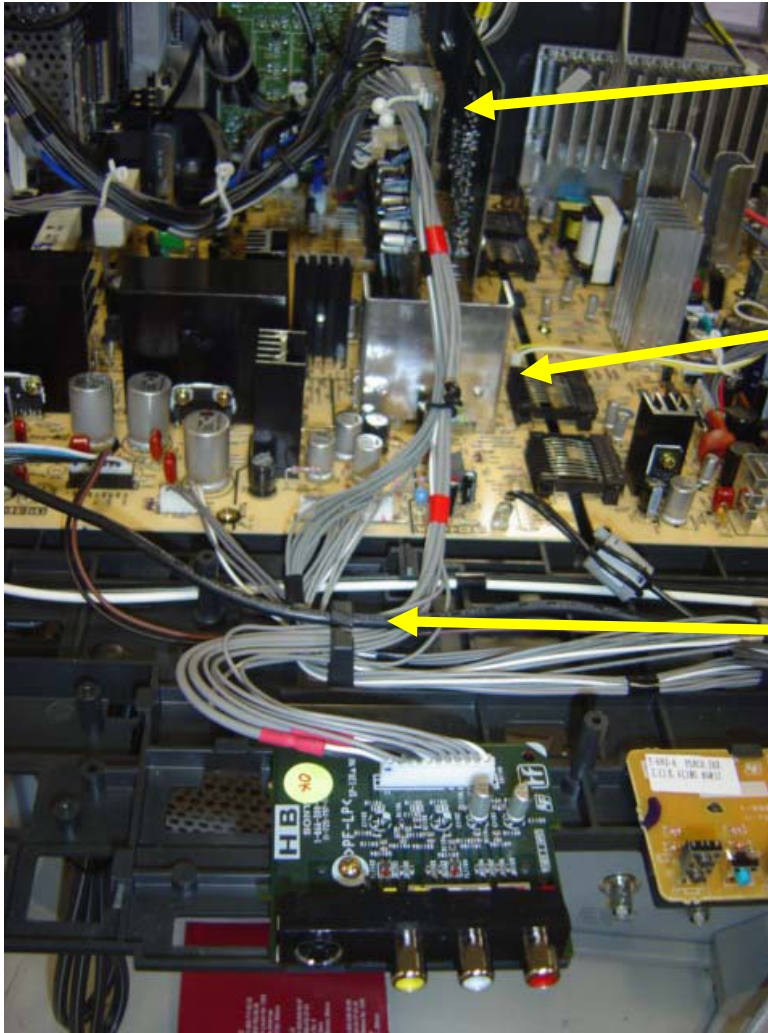


Dress the wires which are holding M purse lock with a 9 mm Black purse lock **3-703-982-02** which shall be located at the end of A board as shown in the picture.



Dress the cable assy 1-900-808-02: **CN5808/DL-CN 9106/WY**, must be dressed in H bracket Hook #1 and **OUTSIDE** 9mm black purselock.

VIDEO 2 WIRE DRESSING

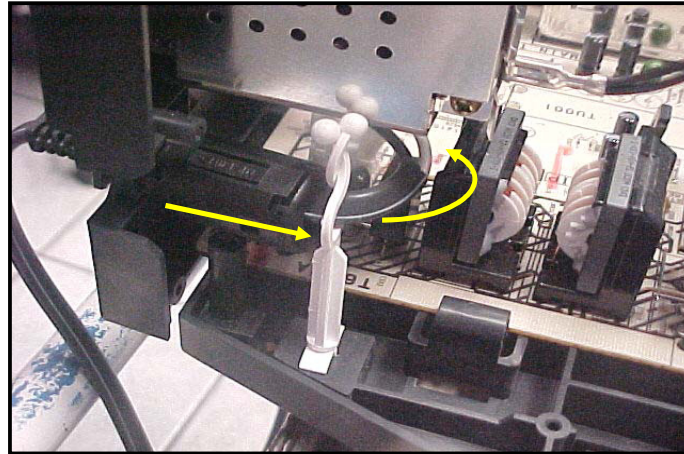


UZ-Bd to HB-Bd Conn. Assy. (with Red taping, p/n: 1-900-806-83)
 Dressed in purselock on M-Bd (p/n: 4-355-912-xx)
 Dressed in purselock on Z-Bd (p/n: 4-355-912-xx)

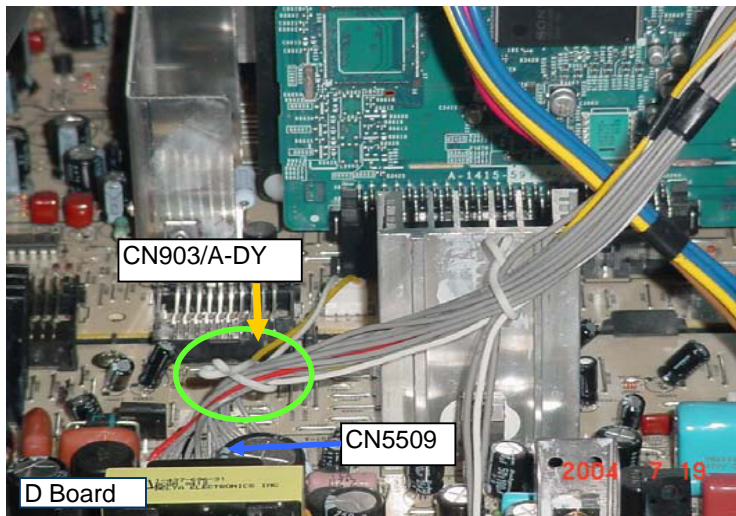
Both 1-900-806-83 and 1-900-808-02 dressed in 9mm
 purselock (p/n: 3-703-982-02)

Both 1-900-806-83 and 1-900-808-02 dressed in H-Bracket Clip
 NOTE Directions of cables INSIDE clip.

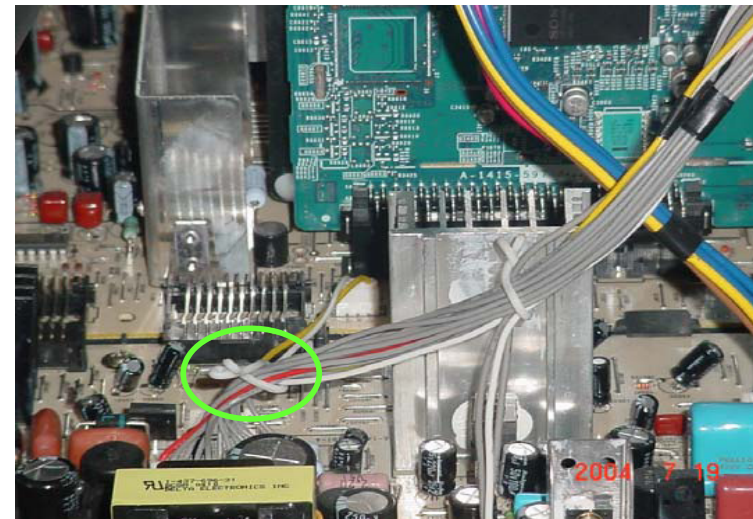
DYNAMIC CONVERGENCE WIRE DRESSING



Route AC cord to CN 503/A by using kanivara purse lock as shown in picture, the ferrite must be before purse lock.



Dress the dynamic convergence cable CN903/A-DY and cable assy CN5509/D - CN9100/WY with a **purse lock 3-703-981-02** (5mm), NOTE: Keep distance of 2.5cm between purse lock and housing connector CN5509/D.

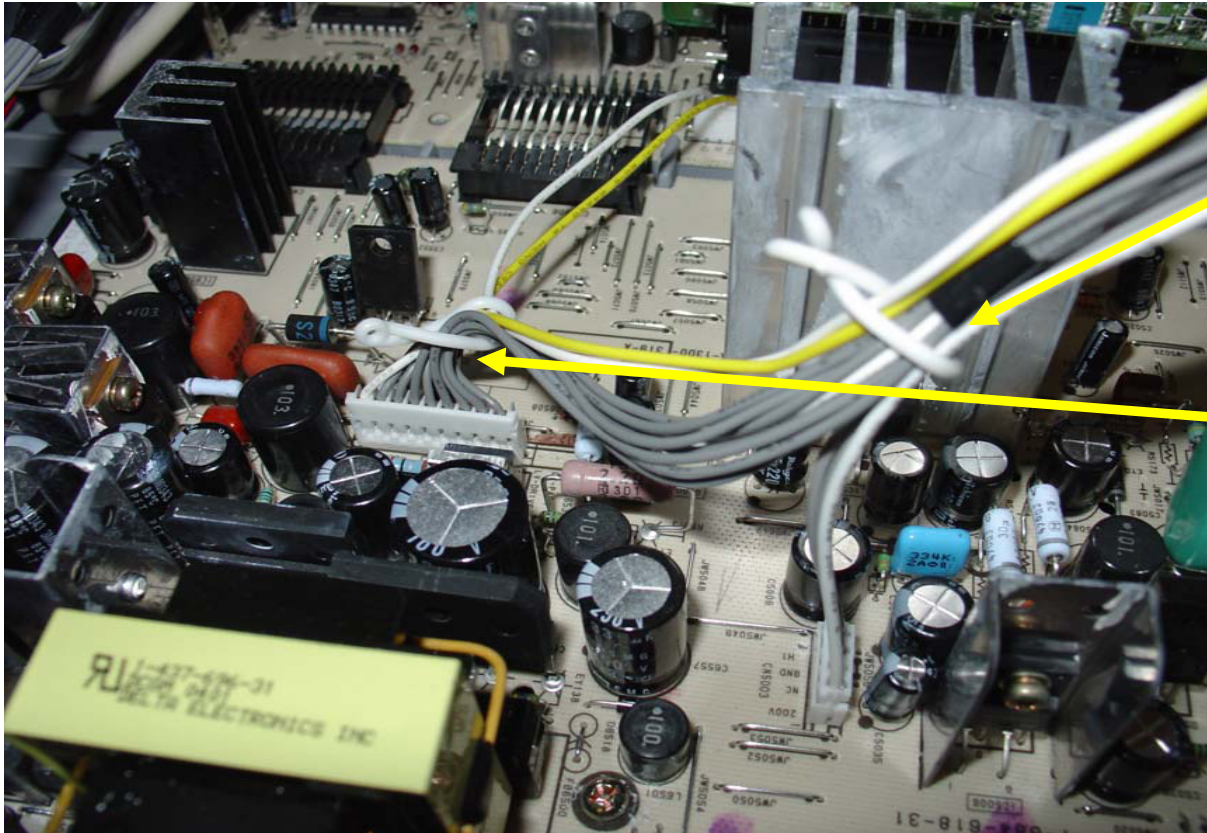


Dress the following cable assy's:

- 1) CN903/A-DY;
- 2) CN5509/D-CN9100/WY and
- 3) CN5003/D-CN9002/CH.

Use a white **purse lock 3-703-981-02** (5mm) as show in picture

CHASSIS CAUTION POINT



NOTE position of 5mm purselocks

same height as heat sink

Apply as close to 12P Connector as possible

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

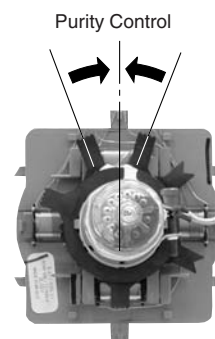
Preparation:

- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- Remove all magnets, wedges, and permalloy strips.
- Confirm data in service mode to match with CRT screen size.
 - Set 2170D-1 to their default settings.
 - VCEN 19
 - VPIN 15
 - HTPZ 15
 - Set 2170D-2 to their default settings.
 - PPHA 21
 - VANG 31
 - LANG 31
 - VBOW 31
 - LBOW 31
 - Set 2170D-4 to their default settings.
 - CXA8070 to their default settings.
- Set all user compensations to their default settings.
- Set landings to their default settings.

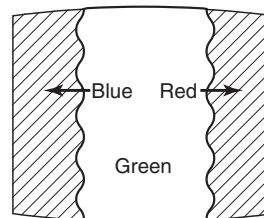
• LT	Left Top LCC Control	127
• LB	Left Bottom LCC Control	127
• RT	Right Top LCC Control	127
• RB	Right Bottom LCC Control	127

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. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



3. Input a green pattern from the pattern generator.
4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.



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

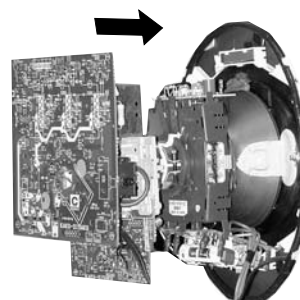
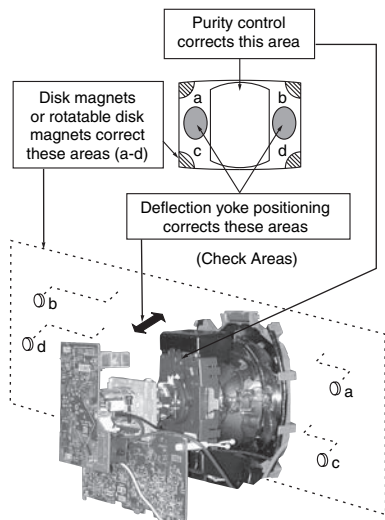


Figure 1

- Switch over the raster signal to red and blue and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
- Move the yoke up and down and/or side to side to find the best geometry. Once the best position is confirmed mount the rubber wedges to hold the yoke position in place for best geometry.
- If landing at the corner is not right, adjust it by using the disk magnets.



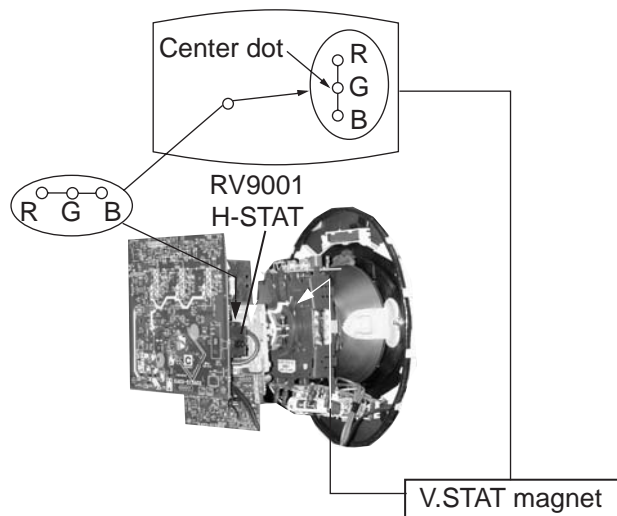
2-2. CONVERGENCE

Preparation:

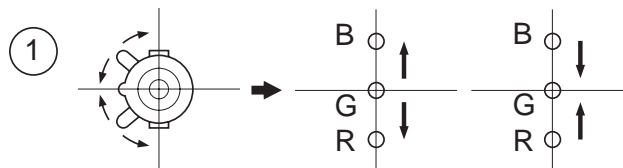
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

2-2.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

- Set dynamic convergence to default values (as in 2-1. Beam Landing) or disconnect the dynamic convergence before adjusting static convergence (CN903), except for minor touch-up.
- Adjust H.STAT convergence, RV9001, on CH Board to converge red, green, and blue dots in the center of the screen.
- Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



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



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

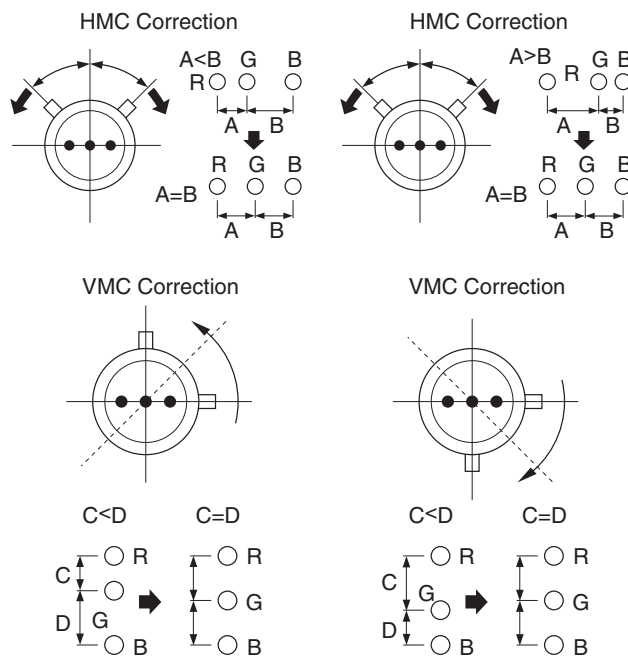
Preparation:

- Input a cross hatch pattern signal.
 - Set Video Mode to: Standard (Reset)
 - For all 4X3 CRT, VPIN data has separate register for full and V-compress. Adjust both modes if needed.
 - For all 16X9 CRT, adjust VPIN data in normal mode for straightness of horizontal line.
- Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
 - Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
 - Horizontal lines should be straight from left to right. Check landing for side effect.

2-3.1. OPERATION OF BMC (HEXAPOLE) MAGNET

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

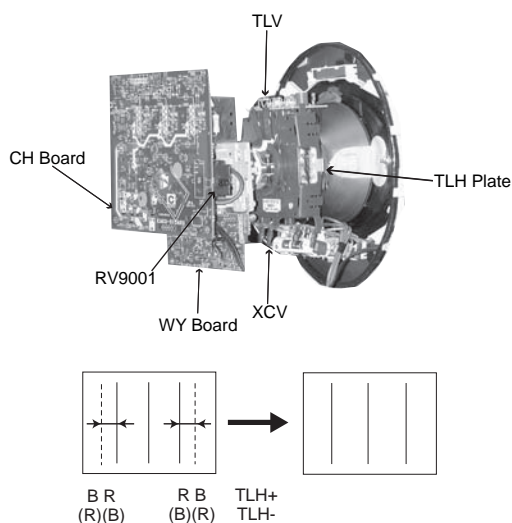
- Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



2-3.2. TLH PLATE ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
- 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.

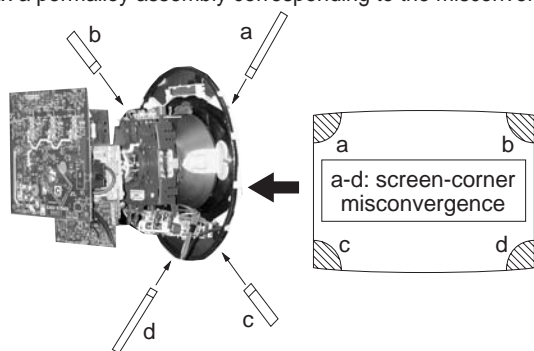
Note: When static convergence adjustments are complete, restore dynamic convergence.

2-3.3. SCREEN-CORNER CONVERGENCE

Preparation:

- Input a cross hatch pattern signal.

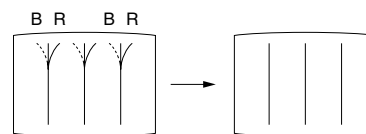
1. Affix a permalloy assembly corresponding to the misconverged areas.



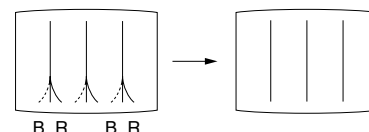
2-3.4. DYNAMIC CONVERGENCE ADJUSTMENTS

- Set dynamic convergence using the following service registers. Note areas of change.
- Only H-component can be corrected, for vertical component use permalloy to compensate.

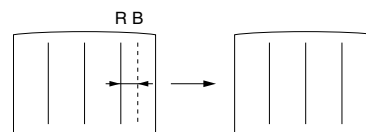
0. YBWU (Upper Y-BOW)



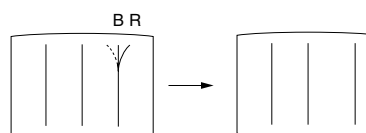
1. YBWL (Lower Y BOW)



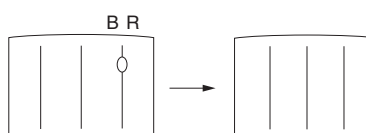
2. RSAP (Right H AMP)



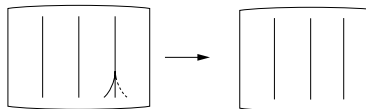
3. RUBW (Right Upper BOW)



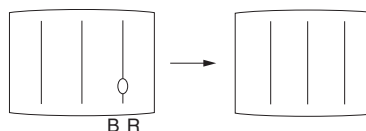
4. RUMB (Right Upper Middle BOW)



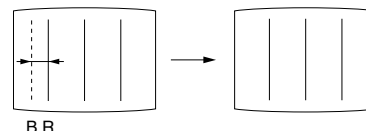
5. RLBW (Right Lower BOW)



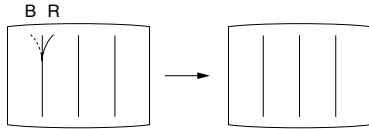
6. RLMB (Right Lower Middle BOW)



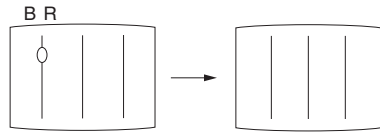
7. LSAP (Left H AMP)



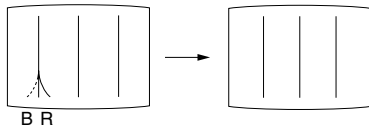
8. LUBW (Left Upper BOW)



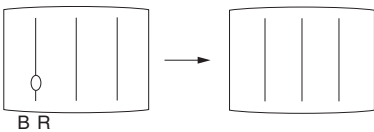
9. LUMB (Left Upper Middle BOW)



10. LLBW (Left Lower BOW)



11. LLMB (Left Lower Middle BOW)



12. CADJ Fix 29

2-4. FOCUS ADJUSTMENT

Confirm neck assembly Z axis position. (See Figure 1)

1. Input a dot signal.
2. Set Video Mode to STANDARD.
3. Adjust focus VR counter clockwise (Over Focus) to confirm the dot's shape. Center should be very slightly oval with left and right sides balanced.
4. Input a HD monoscope signal.
5. Confirm center focus with focus VR.

KD-34XBR970

CRT: 36RV2 (Non-super-fine pitch and round fannel)

Neck Assy:NA328 (VA-type, square pin assignment, VPIN harness)

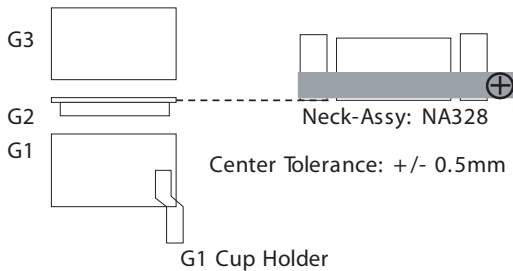
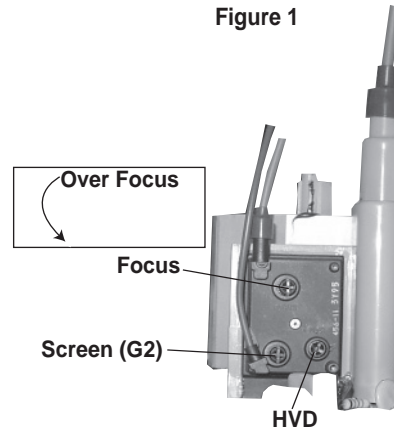
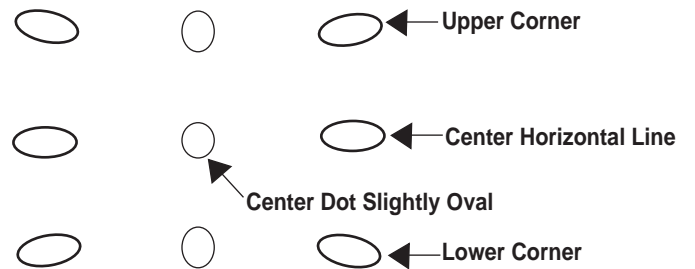


Figure 1



DQP Dot Pattern



NOTE: Changing neck assembly position will affect corner convergence.

2-4.1. DYNAMIC FOCUS/DYNAMIC QUADRA-POLE DATA

Normally, no adjustments are necessary for these systems. If for some reason the data is lost, use the data from Table 1 below:

1. Write the data from any non-vertically compressed mode, then use the CPY1 function (CXA2170D-4 Item 6) to copy the data to the vertical compressed modes.

Note: V-compressed data is identical to non-v-compressed data. Service personnel with a trained eye can adjust the DF or DQP registers to adjust DF phase (Item 7) or DQP phase (Item 8), respectively, to balance left and right focus. Refrain from adjusting more than 5 steps from table data below. Further adjustment indicates a circuit problem -- troubleshoot to cause.

CAUTION: Be sure that Neck Assembly is in the proper location. Mark position before moving or replacing neck assembly.

(See Section 2-4 Figure 1 - before changing DF/DQP data or troubleshooting circuit when DF/DQP is suspect.)

Procedure to adjust or check:

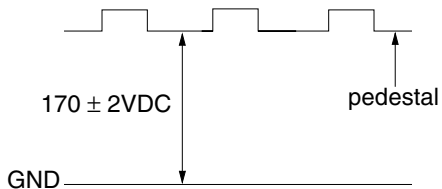
1. Short Q8018 B-Gnd to disable DF.
B Mark is on the circuit board. Circuit connection changes should always be done with the power off.
CAUTION: Q8018 heatsink is live and peak voltage is 250V.
2. Input a cross hatch signal.
3. Change CXA2170-P2 item 2 RGBS to 2 to make green only.
 1. Overfocus to adjust DQP phase. Adjust the data (CXA2170-D4 item 8) to balance left and right vertical line width.
 2. Once DQP is balanced, remove the short from DF circuit and refocus the set.
 3. Adjust DF (CXA2170-D4 item 7) to balance left and right vertical line width.
 4. Reconfirm focus performance.

	30	34	36
QPAM	33	45	22
QPAV	46	47	40
QPAP	6	6	6
QPDC	29	42	17
QPDV	59	63	52
QPDP	6	6	6
DF	40	36	36
DQP	38	37	37

Table 1

2-5. SCREEN (G2)

1. Input dot pattern from the pattern generator .
2. Set the PICTURE and BRIGHT controls at normal
3. Adjust S BRT, G CUT, B CUT in service mode with an oscilloscope so that voltages on the red, green, and blue cathods are 170V +/- 2V DC.
4. Observe the screen and adjust SCREEN (G2) VR on FBT.



2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:

Set PRO MODE (Reset).

1. Input signal (480i Composite):
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 - SUB CONTRAST ADJUSTMENT

Preparation:

Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
Set picture mode: Single (Full) (PRO MODE Reset).
Picture: Max
Color: Min

1. Set to Service Mode and adjust as follows:

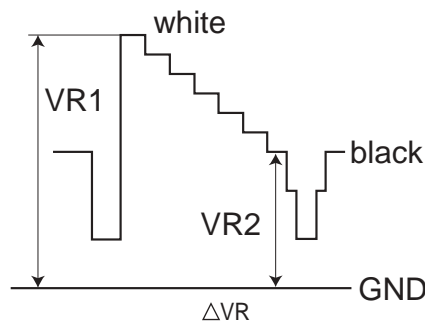
2170P-2

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

2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the CH Board.
3. Adjust contrast according to the service mode item: SPIO.

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



$$(34XBR) = 1.60 - 0.05 V_{pp}$$

4. Write data from Step 3 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: Single (Full) (PRO MODE Reset).
 - Picture: Max
1. Set to Service Mode and adjust as follows:

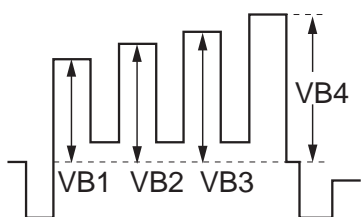
2170P-2

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

2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the CH Board.
3. Adjust color according to Service Mode for SCLO.
4. Adjust color according to Service Mode for SHUO.

2103-1

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



COLOR: $VB1 \leq VB4$ ($=20mV \pm 200 mV$)
 HUE: $VB2 \leq VB3$ ($=20mV \pm 200 mV$)

5. Write data into memory.

2-6.3. RF INPUT - SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
 - Set picture mode: Single (Full) (PRO MODE).
 - Picture: Max
 - Color: Min
1. Set to Service Mode and adjust as follows:

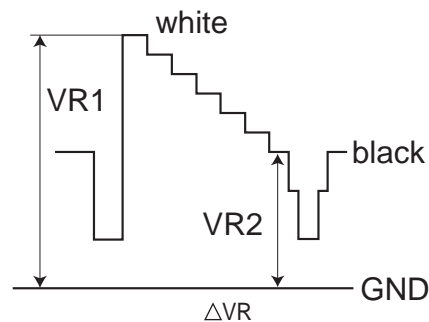
2170P-2

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

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

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



$(34XBR) = 1.60 \pm 0.05 V_{pp}$

4. Write data from Step 3 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: single (FULL) (PRO MODE Reset).
- Picture: Max

1. Set to Service Mode and adjust as follows:

2170P-4

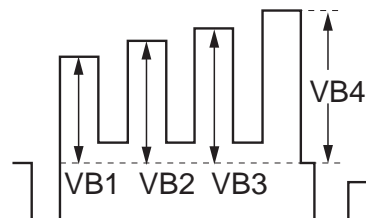
NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the CH Board.
3. Adjust color according to Service Mode for SCOL.

4. Adjust color according to Service Mode for SHUE.

2103-1

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



COLOR: $VB1 \leq VB4$ ($=20mV \pm 200 mV$)

HUE: $VB2 \leq VB3$ ($=20mV \pm 200 mV$)

5. 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 CXA2170P1 in Service Mode.
- Set Picture Mode: Single (FULL) (POR MODE Reset)
- Picture: Max
- Color: Min

SONY

WHITE BALANCE ADJUSTMENT PROCEDURE (Composite White Field signal into Video 1)

Highlight and Cutoff Specification	Old Calibration	New Calibration															
	9300K + 8MPCD R/G = 1.000 B/G = 1.000 x = 0.284 y = 0.298	10900K + 2MPCD R/G = 1.007 B/G = 1.139 x = 0.276 y = 0.284															
Condition	Picture Mode: Single (Full) Picture Setting: Pro	Color Temp: Neutral	Adjustment Registers (Service Mode)	WB701 Preset	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>R/G</th> <th>B/G</th> </tr> </thead> <tbody> <tr> <td>32RDEN</td> <td>0.775</td> <td>0.915</td> </tr> <tr> <td>36RDE</td> <td>0.770</td> <td>0.930</td> </tr> <tr> <td>38RFN</td> <td>0.713</td> <td>0.903</td> </tr> </tbody> </table>		R/G	B/G	32RDEN	0.775	0.915	36RDE	0.770	0.930	38RFN	0.713	0.903
		R/G				B/G											
32RDEN	0.775	0.915															
36RDE	0.770	0.930															
38RFN	0.713	0.903															
Picture: 63 Color: 0	write to 86h:01h:FFh write to 86h:03h:00h		RDRV (fixed) 2170P-1-06 GDRV 2170P-1-07 BDRV 2170P-1-08 RCUT (fixed) 2170P-1-09 GCUT 2170P-1-10 BCUT 2170P-1-11														

PART NO.	DESCRIPTION	Qty	Tools/Instruments	Qty	4x	3x	2x	1x	NO.	DATE	REVISIONS	SIGN	SST
1													
2													
3													
4													
5													
6													

TITLE: White Balance Adjustment (2) TS-6999-988M-01

2-7.1. COLOR OFFSET ADJUSTMENT PROCEDURE

Preparation:

- Input an all white (30 IRE) signal to the specified input.
- Adjust the white balance using the specified registers.
- Set picture mode: Single (FULL) (PRO MODE Reset)
- Color: Max

VIDEO 1

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB OFFSET
4	CROF	CR OFFSET

VIDEO 5

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB OFFSET
4	CROF	CR OFFSET

VIDEO 7 -

CXA2170P1

NO.	Name	Control Function
3	CBOF	CB0F (FROM VIDEO 5) + 3
4	CROF	CR0F (FROM VIDEO 5) - 4

2-8. H RASTER CENTER ADJUSTMENT

Preparation:

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

1. Set to Service Mode and adjust as follows:

CXA2170P-2

NO.	Name	Control Function	Data
05	AGNG	AGING 1, AGING 2	2

CXA2170D-2

NO.	Name	Control Function	Avg. Data
01	HPOS	Horiz Position	31
02	HSIZ	Horiz Size	31

CXA2170D-3

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

2. Reduce HSIZ to see sides of raster. (See Figure A)
3. Adjust H-Center with CXA2170D-2.
4. Adjust to the best screen position with H-CENT and write data.
5. Restore aging, HSIZ and HBLK to original condition.

Raster Edge Equal:

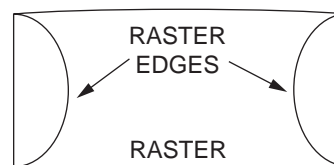


Figure A

2-9. PICTURE DISTORTION ADJUSTMENTS

2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

1. Face the picture tube in an east-west direction. (For best condition.)
2. Input a monoscope and crosshatch signal.
3. Adjust the picture distortion with the two signals to balance the best condition between the two.

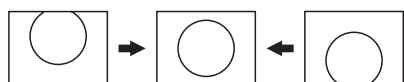
Use the CXA2170-D1 and -D2 adjustable data items shown.

4. Complete V-PIN and V-CEN adjustments first and adjust HPTZ to straighten and parallel top and bottom lines.
5. Adjust VSCO, VLIN as necessary.
6. Adjust VSIZ and VPOS and write the data.
7. Adjust for Vertical line distortion.
8. Adjust VANG, VBOW, LANG, LBOW.
Note: Keep LANG and LBOW data between 5 and 58.
9. Finish with UCP, LCP, PPHA, PIN adjustments.
10. Check SLIN, MPIN. Adjust for correct HSIZ and HPOS and write the data before changing modes.

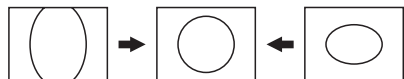
NOTE: Make sure that the picture size is within specs. Vertical size is 11.8 ± 0.1 sq. and horizontal size is 15.8 ± 0.1 sq.

CXA2170D-1

Item 0. VPOS (V-POSITION)



Item 1. VSIZ (V-SIZE)



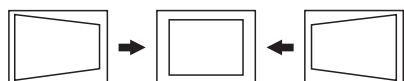
Item 3. VLIN (V-LINEARITY)



Item 4. VSCO (V S-CORRECTION)

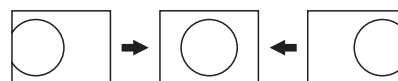


Item 9. HTPZ (H-TRAPEZOID)

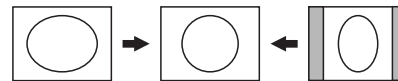


CXA2170D-2

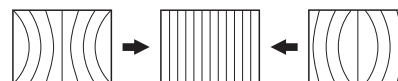
Item 1. HPOS (H-POSITION)



Item 2. HSIZ (H-SIZE)



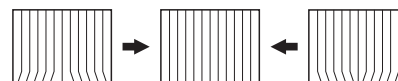
Item 5. PIN (PIN AMP)



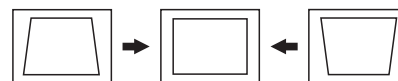
Item 7. UCP (UP COR PIN COR)



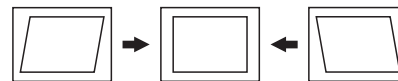
Item 8. LCP (LOW CO PIN COR)



Item 14. PPHA (PIN PHASE)



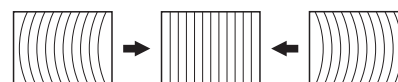
Item 15. VANG (AFC-ANGLE)



Item 16. LANG (L-ANGLE)



Item 17. VBOW (AFC-BOW)



Item 18. LBOW (L-BOW)



2-9.2. 1080i HD MODE ADJUSTMENT

1. Input a 1080i cross-hatch signal and an HD monoscope full signal that contains overscan markers. (From service mode, verify 1080i mode).
2. If this procedure was not performed for full mode, adjust the raster position per Section 2-8. H Raster Center Adjustment.
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. Adjust HPOS as necessary.
Note: If necessary, touch up the geometry using the data registers listed above for full mode. Check NTSC full mode for adjustment side effects because some data registers are shared between modes, in which case a balance must be achieved.
5. Write the data into memory before changing modes.

2-9.3. VERTICAL COMPRESSED MODE CHECK AND CONFIRMATION (FOR 4X3 CRT ONLY)

1. Input a monoscope and crosshatch signal.
2. Set CXA2170-P4 item 26 IDSW to 4 (VC 960i).
3. Check for vertical compressed mode distortion.
4. Adjust VPIN as necessary to correct upper lower horizontal line straightness. Adjust other registers in Full mode above as necessary, being careful to balance any shared data effect between modes.
5. Repeat steps 3 and 4 for IDSW set to 3 (VC 1080i).
6. Write the data before changing modes.

2-9.4. NORMAL, ZOOM AND WIDE ZOOM MODES

1. Check Normal and Zoom modes for size and position.
2. Optimize VPIN adjustment in Normal mode for the straightest upper and lower horizontal lines. For other registers, remember to check for shared data side effect.
3. Write the data before changing modes.
4. Check Wide Zoom mode for size and position.
Wide Zoom is a specially adjusted mode to fit a 4:3 picture into a 16:9 format, and is only available on wide screen models.
5. Set the following key registers to the data indicated:
VSCO = 10, UVLN = 4, LVLN = 4, SLIN = 10, MPIN = 9,
then adjust the other data registers shown here for Full mode to straighten horizontal and vertical lines. The picture on the top and bottom edge is deliberately compressed vertically, and similarly the picture on the left and right side is expanded horizontally.
Note: Do not adjust horizontal and vertical linearity to make another Full mode. Most data registers for this mode are dedicated to Wide Zoom mode only so there should be no adjustment side effects to other modes but please confirm this.
6. Write the data before changing modes.

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. PREPARATION BEFORE CONFIRMATION

Standard:.....
135.3 ± 1 VAC

Check Condition:
AC input voltage: 120 (± 2) VAC

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

Initial Setting:
Standard Reset condition

Confirm Point:
Across CN5509 PIN 9 for B+ of D Board

3-1.1 HOLD-DOWN OPERATION CONFIRMATION

- Using an external DC power supply, apply 5.3 ± 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8); confirm set goes to hold-down (main power relay click).
- Remove the external DC power supply.

3-2. B+ MAX CONFIRMATION

Standard 135.3 ± 1 VAC

Check Condition:
AC input voltage: 120 (± 2) VAC

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

Initial Setting:
Standard Reset condition

Confirm Point:
Across CN5509 PIN 9 for B+ of D Board

3-3. B+ VOLTAGE CHECK

Standard:.....135.3 ± 1 VDC

Measurement point:
CN5509 pin (9) for B+ of [D] Board

Input Video Signal:.....All Black Signal

Picture level:.....Picture/Brightness
Minimum

HV Probe: Service can use Fluke 80K-40 or equivalent.

3-4. HIGH VOLTAGE (HV) CHECK

Standard:.....31.5 ± 0.5 kV

Measurement point:.....Anode of CRT

Input Video Signal:.....All Black Signal

Picture level:.....Picture/Brightness Minimum

3-5. PREPARATION FOR HV AND IK PROTECTOR CHECK

- Remove D Board screws and carefully lift board as necessary to gain access to the bottom of the board.
- Unsolder CN5001 pin 1 to open ABL connection to A Board.
(Alternately, open A - D connector (CN509-CN5001) and carefully push pin 1 metal tab (ABL) up from the bottom and pull up from the top using long nose pliers and release it from the connector, then close the connector with pin 1 connection now open.)
- Install jumper wire from M Board connection CN2304 pin 1 to CN509 pin 1 to inject 5V to ABL line. (Alternately, use STBY 5V, IC501 Pin O on A Board)
- Unsolder CN5009 pin 8 (H-prot).
- Open ABL pin 1 of T8001 (RHT) on D Board and connect analog current meter.

3-6. HV PROTECTOR CHECK

3-6-1. CUT OFF CONDITION

Input Video Signal:.....All Black Signal

Picture level:.....Picture/Brightness Minimum

- Confirm ABL current which should be approximately 0.160mA.
- Short across C8002, C8021, and C8052.
- Turn off the set and install precision VR1 jig (a multi turn pot initially set to 100K) to IC8005 pin 1 (It's the unmarked IC8005 pin on PWB A side, neither K nor A.) and GND (C8076 -).
- Restore power and adjust HV to obtain 35.2 ± 0.15 kV by precision VR1 jig.
Note: If the picture turns bright red or other color and the set shuts down, place a 10 MΩ resistor on the CH Board between G2 and E2 pins on the socket. Confirm G2 adjustment before returning set to production.
- Remove short from C8002 and confirm that hold down activates.
- Short C8002 again and confirm that HV recovers.
- Re-adjust HV to obtain 32.5 ± 0.2 kV by precision VR1 jig.
- Remove short from C8002 and C8021 and C8052.
- Confirm that hold down does not activate.

Note: Remove the 10 MΩ resistor, if installed in step D above

3-6-2. HIGH LIGHT CONDITION

Input Video Signal:.....All White Signal
Picture level:.....Picture/Brightness Adjustment

1. Short across C8002, C8021, C8052, C8012, and C8015.
2. Set ABL current to **2.76mA** by adjusting picture and brightness towards max condition.
3. Adjust HV to obtain **34.5 ± 0.15kV** by precision RV1 jig.
4. Remove short from C8002 and confirm that hold down activates.
5. Short C8002 again and confirm that HV recovers.
6. Re-adjust HV to obtain **32.2 ± 0.2 kV** by precision VR1 jig.
7. Remove shorts from C8002, C8021, and C8052.
8. Confirm that hold down does **not** activate.
9. Remove short from C8012 and C8015.
10. Remove VR1 jig from D Board

3-7. IK PROTECTOR CHECK

Input Video Signal:.....All White Signal
Picture level:.....Picture/Brightness Adjustment

1. Short across C8015.
2. Set ABL current to 2.76mA by adjusting picture and brightness towards max condition.
3. Confirm that AC Relay shuts off.
4. Remove short from C8015 and Short across C8012.
5. Turn the set off and on to reset AC relay latch.
6. Confirm the voltage at CN5009 pin 8 (H_prot) = 2.1 ± 0.5V.
7. Remove short from C8012.

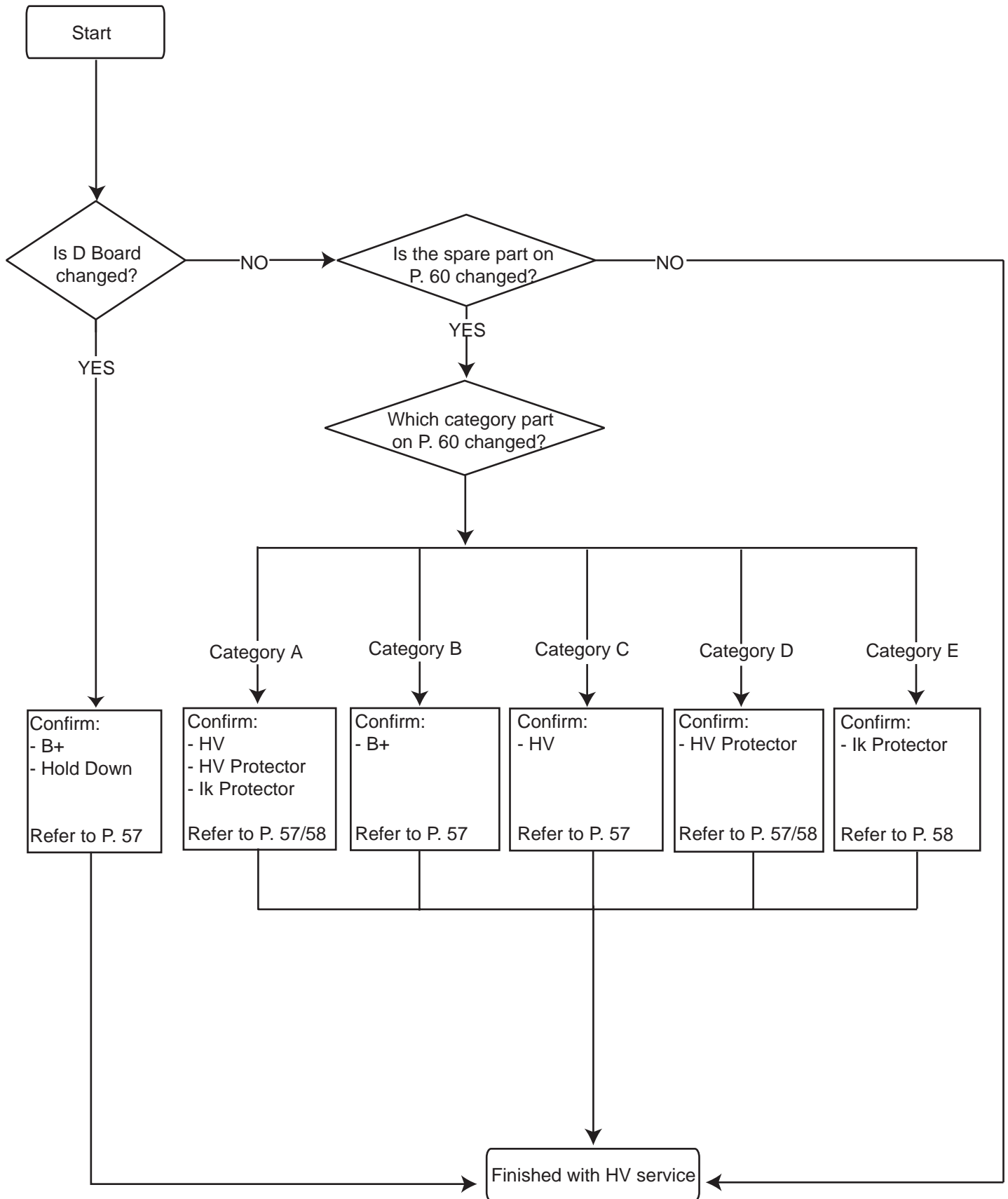
3-8. HOLD DOWN CHECK

1. Using an external DC power supply, apply 5.3 + 0.5 Vdc between Pin 2 of CN507 (jig connector) and ground (Pin 8) on A Board.
2. Confirm that hold down activates.
3. Remove the external DC power supply.

3-9. RESTORATION

1. Re-solder CN5001 pin 1 and CN5009 pin 8 to restore A -D connections.
(Or as applicable, restore A –D connector by carefully pressing the tab back into the slot and snapping the connector shut. Be sure the tab is flush and level with the other tabs on the connector.)
2. Remove jumper wire from M Board connection CN2304 pin 1 to CN509 pin 1.
3. Remove current meter from ABL pin and restore ABL pin connection.
4. Replace all D Board screws and restore user menu settings to reset condition.

3-10.HV SERVICE FLOWCHART



HV SERVICE FLOWCHART TABLE

Ref. #	Category
T8001	A
R8015	C
R8017	C
R8019	D
R8035	E
R8036	E
R8037	E
R8038	E
R8039	E
R8040	E
R8043	E
R8078	D
R8165	D
IC8005	C
IC8104	D
R8012	C
R8014	C
R8016	D
R8021	C
R8027	E
R8029	E
R8030	E
R8031	E
R8046	D
R8052	D
R8059	C
R8060	C
R8066	C
R8072	D
R8079	D
R8082	E
R6590	B
D8022	D
PH8003	C
Q8007	E
Q8008	E
IC8001	D
IC8002	C
IC8004	C
IC6503	B

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-YD007) to perform the circuit adjustments in this section.

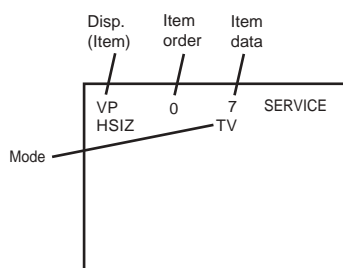
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING SERVICE ADJUSTMENT MODE

1. Standby mode (Power off).
2. Enter service mode by pressing the following buttons on the remote commander within a second of each other:

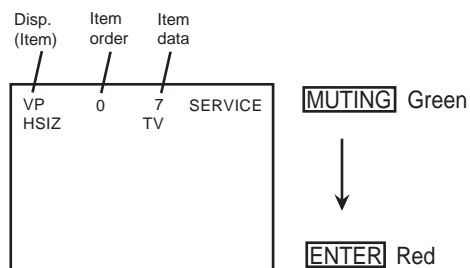
DISPLAY → Channel **5** → Sound Volume **+** → Power

4-1.1. SERVICE ADJUSTMENT MODE IN

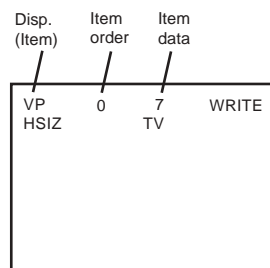


3. The CRT displays the item being adjusted.
4. Press **1** or **4** on the Remote Commander to select the item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. Press **MUTING** then **ENTER** to write into memory.

4-1.2. SERVICE ADJUSTMENT MODE MEMORY



1. To restore the User Controls and Channel Memory settings to the preset factory conditions, put the set into service mode (see step 2 above), then press **8** then **ENTER** on the Remote Commander.



8. DO NOT turn off set until SERVICE appears.

4-1.3. READING THE MEMORY

Use the following instructions to go back to the last saved data value.

1. Enter into Service Mode.
2. Press **0** on the Remote Commander.
3. Press **ENTER** to read memory.

4-1.4. 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.

4-1.5. COPY FUNCTION

How to use copy function for DA4 Chassis:

After writing your adjusted data into NVM, press **MUTING** then **ENTER** to write into memory.

To copy change copy data from **0** to **1** then press **MUTING** then **ENTER** again.

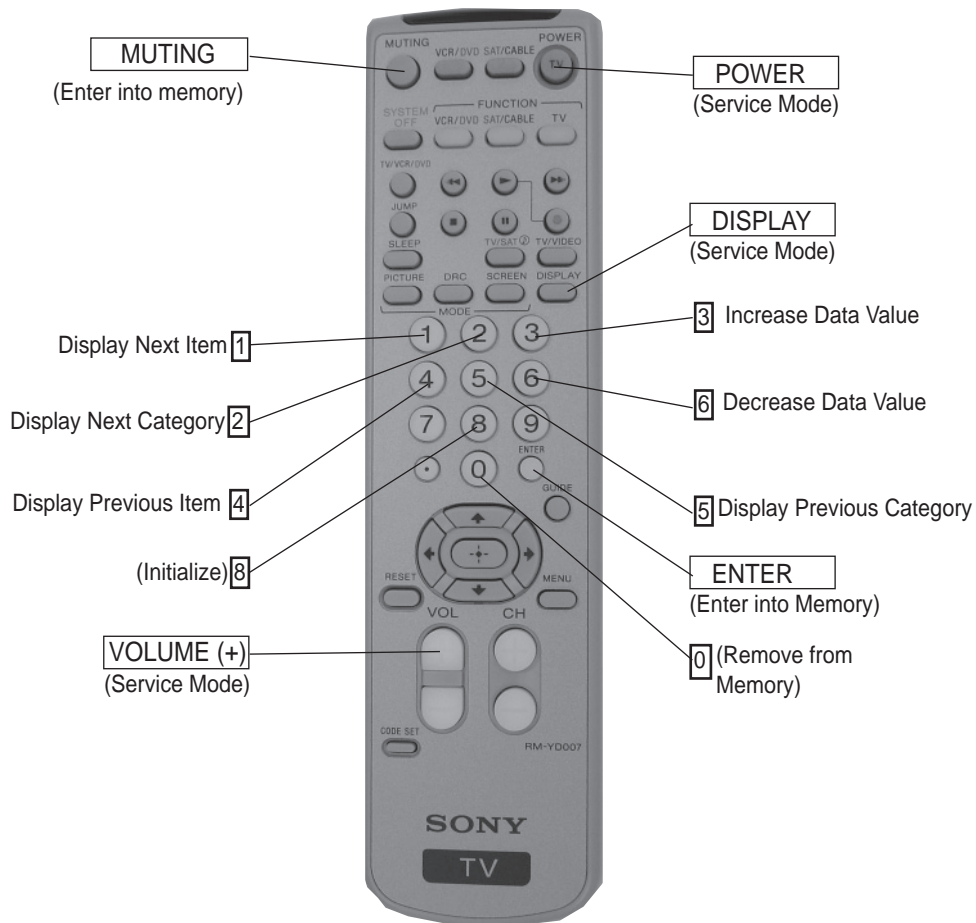
WARNING: DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.

CPY1: DF/DQP DATA (CXA2170D-4 Item 6)

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-YD007

4-4. SERVICE DATA

VIDEO & AUDIO

Category	No	Item	Range									
VERSION	0	VER*	0,1	0 *								
	1	DMY1*	0-255	0 *								
3D-COMB	0	NRMD*	0-3	0 *	Note: Item* uses the fixed setting in normal TV operations. {Its setting can be changed for testing in Service mode only. But the change will not be memorized after leaving Service mode.}							
	1	CLKS	0-3	1								
	2	NSDS*	0-3	0 *								
	3	MSS*	0-3	0 *								
	4	KILS*	0-3	1 *								
	5	FRZE*	0,1	1 *								
	6	EXCS	0-3	1								
	7	CDL	0-7	4								
							NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3		
	8	DYCO	0-15	2			2	2	2	2		
	9	DYGA	0-15	10			10	10	10	10		
	10	DCCO	0-15	5			5	5	5	5		
	11	DCGA	0-15	5			5	5	5	5		
	12	WSC	0-2	1								
	13	WSS	0,1	0								
							Vivid	Standard	Movie	Pro		
	14	VAPG	0-7	4			4	2	2	0		
	15	VAPI	0-31	4			4	4	4	0		
	16	TEST*	0,1	0 *								
							Vivid	Standard	Movie	Pro	Twin	
							RF	CV/YC	RF	CV/YC	RF	CV/YC
	17	YPFT	0-3	3			3	3	3	3	3	0
	18	YPFG	0-15	7			7	6	5	5	4	5
	19	SEDC	0,1	0								
20	SEDY	0,1	1									
21	YHCO	0-3	1									
22	YHCG	0,1	0									
23	SYSP	0-3	0									
24	TES2*	0-7	0 *									

VIDEO & AUDIO

Category	No	Item	Range							
2103-1	0	YLEV	0-62	V5/V6/ATSC	Others	HDMI				
	1	CLEV	0-63	31	28	31				
				38	17	40				
				RF	CV/YC					
	2	SCON	0-15	7	7					
	3	SCOL	0-15	8	8					
	4	SHUE	0-15	9	8					
	5	YDLY	0-3	0	0					
				RF	CV/YC	V5/V6	HDMI	ATSC		
	6	SHAP	0-15	8	8	4	4	8		
	7	SHF0	0-3	0	0	2	2	0		
	8	PRE0	0-3	3	3	3	3	3		
	9	BPF0	0-3	3						
	10	BPFQ	0-3	2						
				RF	CV/YC					
	11	BPSW	0,1	1	0					
	12	TRAP	0,1	0						
	13	LPF	0,1	1						
				RF	CV/YC	Others				
	14	AFCG	0,1	1	0	1				
	15	CDMD	0-3	3	3	3				
	16	SSMD	0-3	0	0	0				
				RF	CV/YC	V5/V6	HDMI	ATSC		
	17	HMSK	0,1	1	1	1	1	1		
	18	HALI	0,1	0						
			RF	CV/YC	V5/V6	HDMI	ATSC			
19	PPHA	0-15	7	7	7	7	8			
			V5/V6	ATSC	Others					
20	CBO1	0-63	38	31	38					
21	CRO1	0-63	35	31	38					
			HDMI/ATSC							
22	CBO2	0-63	34							
23	CRO2	0-63	31							
			Single	BLK = 0	BLK = 1	BLK = 2	BLK = 3	Notes:		
24	ATPD	0-3	0	1	0	0	0	Settings applied to CXA2103 (M&S)		
25	DCTR	0-3	0	2	0	0	0	Settings also based on 2170P-4/BLK data		

VIDEO & AUDIO

Category	No	Item	Range	DRC		HDMI	ATSC	V5/V6	PT													
2170P-1	0	YOSW	0,1	CV/YC	480i	1	1	1	1													
	1	TCOF*	0,1	0 *																		
	2	YOF	0-15	DRC	V5&6				HDMI			MS / ATSC										
	3	CBOF	0-63	RF/CV/YC	480i	480p	720p	1080i	480i	480p VGA	720p	1080i	480i	480p	720p	1080i						
	4	CROF	0-63	0	15	13	7	7	12	7	7	13	15	10	14							
	5	SBRT	0-63	Color Temp Neutral																		
	6	RDRV	0-63	13																		
	7	GDRV	0-63	40																		
	8	BDRV	0-63	33																		
	9	RCUT	0-63	31																		
	10	GCUT	0-63	40																		
	11	BCUT	0-63	19																		
	12	WBSW	0,1	Color Temp		Note: The WBSW setting in Warm can be memorized in NVM.					Cool						Warm					
	13	SBOF	0-15	0	0																	
	14	RDOF	0-63	7	7																	
	15	GDOF	0-63	31	31																	
	16	BDOF	0-63	31	26																	
	17	RCOF	0-63	34	16																	
	18	GCOF	0-63	31	31																	
	19	BCOF	0-63	31	27																	
20	DCOL	0-3	34	19																		
2170P-2	0	PICO*	0,1	Blanking On		Blanking Off		Power Off														
	1	RGBS*	0-7	1 *	1 *	0 *	0 *	0 *														
	2	BLKB	0-3	0 *																		
	3	RGBL	0-3	7 *																		
	4	YLMT	0-3	3																		
	5	AGNG*	0-3	Aging On		Aging Off																
	6	AKBO*	0,1	2 *						0 *												
	7	CLPP	0-3	0 *																		
	8	CLPG	0,1	Other MS		ATSC i.Link		HDMI		ATSC PT		HDMI PT		Note; PT=Bypass MID (HDPT=0)								
	9	CLPS	0,1	3		3		3		3												
	10	PPAD	0-7	0		0		0		0												
	11	SYNP	0,1	0		0		0		0												
12	HVBT	0,1	0		0		0		0													

VIDEO & AUDIO

Category	No	Item	Range		RF	CV/YC	V5/V6				HDMI					MS	Twin	ATSC				
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p	
2170P-3	0	SYSM	0-3	Vivid	1	1	1	1	3	3	1	1	3	3	3	3	2	1	2	3	3	
	1	VMLV*	0-15		7 *																	
	2	VMCR	0-3		1	2	2	0	0	0	0	1	0	0	0	0	0	3	2	0	0	0
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4	VMFO	0-3		1	1	1	1	0	0	0	1	1	0	0	0	0	0	1	1	0	0
	5	VMDL	0-15		5	5	2	5	6	6	6	5	5	13	6	6	15	7	7	7	15	15
	6	SHOF	0-3		2	2	3	1	1	3	3	2	1	1	2	1	2	2	2	2	2	1
	7	SHFO	0,1		1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	0	0	3	3	3	3	1	3	3	3	3	3	0	0	3	3
	9	F1LV	0-3		1	0	2	0	0	1	2	2	2	0	1	1	1	0	2	2	1	2
	10	LTLV	0-3		2	2	3	1	3	3	3	2	1	3	3	3	3	3	3	1	3	3
	11	LTMD	0,1		1	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	1	0
	12	CTLV	0-3		0	0	0	0	3	3	3	0	0	3	3	3	3	0	0	0	3	3
	13	UBOF	0-7		0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	14	UCOF	0-7		2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	16	MIDE	0-63		7	11	15	19	23	27	27	15	19	52	39	27	23	56	15	19	23	27
	0	SYSM	0-3	Standard	1	1	1	2	3	3	1	1	3	3	3	3	2	1	2	3	3	
	1	VMLV*	0-15		7 *																	
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
	3	VMLM	0-3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	VMFO	0-3		1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	
	5	VMDL	0-15		7	5	2	7	6	6	5	5	13	6	6	15	7	7	7	15	15	
	6	SHOF	0-3		1	3	3	1	1	1	2	0	1	1	2	0	2	2	0	0	1	
	7	SHFO	0,1		1	1	1	0	1	0	1	1	1	0	0	1	1	1	1	1	1	
	8	PROV	0-3		0	0	1	0	3	3	3	1	3	3	3	3	3	0	0	3	3	
	9	F1LV	0-3		0	0	0	1	1	1	1	1	0	1	0	1	0	2	2	1	0	
	10	LTLV	0-3		2	2	2	2	3	3	2	2	3	3	3	3	3	2	3	3	1	
	11	LTMD	0,1		1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	
	12	CTLV	0-3		0	0	0	0	3	3	0	0	3	3	3	3	0	0	0	3	3	
	13	UBOF	0-7		2	2	2	2	1	1	2	2	2	1	1	1	1	2	2	1	1	
	14	UCOF	0-7		2	2	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	
	15	UHOF	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	16	MIDE	0-63		5	10	14	18	22	26	14	18	51	22	26	22	55	14	18	22	26	

VIDEO & AUDIO

Category	No	Item	Range																	
2170P-3				RF	CV/YC	V5/V6				HDMI					MS	Twin	ATSC			
						480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p
	0	SYSM	0-3	1	1	1	2	3	3	1	2	3	3	3	3	2	1	2	3	3
	1	VMLV*	0-15																	
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	VMFO	0-3	1	1	1	1	0	0	1	1	0	0	0	0	1	1	0	0	
	5	VMDL	0-15	5	5	7	7	6	6	5	5	13	6	6	15	7	7	7	15	
	6	SHOF	0-3	1	1	0	1	1	1	0	2	1	1	2	1	1	1	2	1	
	7	SHFO	0,1	1	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	
	8	PROV	0-3	0	0	1	0	3	3	3	1	3	3	3	3	3	0	0	3	
	9	FILV	0-3	0	0	1	1	1	0	1	1	0	1	1	0	1	1	1	0	
	10	LTLV	0-3	1	1	1	2	2	2	1	1	2	2	2	1	1	2	1	1	
	11	LTMD	0,1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	12	CTLV	0-3	0	0	0	0	2	2	0	0	2	2	2	0	0	0	2	2	
	13	UBOF	0-7	0	0	2	2	0	0	2	2	0	0	0	0	2	2	0	0	
	14	UCOF	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	16	MIDE	0-63	3	9	13	17	21	25	13	17	50	21	25	21	54	13	17	21	
	0	SYSM	0-3	1	1	0	2	3	3	2	2	3	3	3	3	2	2	2	3	
	1	VMLV*	0-15	7*																
	2	VMCR	0-3	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
	3	VMLM	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	VMFO	0-3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	VMDL	0-15	5	5	8	7	6	6	5	5	13	6	6	15	7	7	7	15	
	6	SHOF	0-3	2	1	0	1	2	1	1	1	1	2	2	1	2	0	3	1	
	7	SHFO	0,1	1	1	1	0	1	1	1	0	1	0	0	1	1	1	1	1	
	8	PROV	0-3	0	0	1	0	3	3	3	1	3	3	3	3	3	0	3	3	
	9	FILV	0-3	0	0	0	1	1	1	0	1	0	1	1	0	0	1	1	0	
	10	LTLV	0-3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
	11	LTMD	0,1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	12	CTLV	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	13	UBOF	0-7	2	0	2	1	1	1	2	1	1	1	1	2	2	1	1	1	
	14	UCOF	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	15	UHOF	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	16	MIDE	0-63	0	8	12	16	20	24	12	16	49	20	24	20	53	12	16	20	
	17	VM	0-3		Vivid	Standard	Movie	Pro												
	18	VMH	0-15	3	3	3	1	0												
	19	VMM	0-15	15	15	15	12	12												
	20	VML	0-15	10	8	8	8	8												
	21	VML	0-15	6	4	4	4	4												
	22	VGAP	0-15	5																
	23	VGAS	0-15	5																
	24	VGAB	0-15	5																
	25	VGAC	0-15	5																
	26	VGAV	0-15	5																

VIDEO & AUDIO

Category	No	Item	Range																			
2170P-4	0	YCON	0,1	MS 1	Other 1																	
	1	SPIC	0-15	DRC 7	VDO (V5/V6) 7																	
	2	SCOL	0-63	VDO (HDMI) 32	MS / ATSC 32																	
	3	SHUE	0-63	PT 31	Note: PT = Pass Through (By pass MID)																	
	4	SPIO	0-15	5																		
	5	SCLO	0-15	10																		
	6	SHUO	0-15	7																		
	7	RYR	0-15	Normal 8	Special Axis 15																	
	8	RYB	0-15	9	15																	
	9	GYR	0-15	9	9																	
	10	GYB	0-15	6	3																	
	11	GAMM	0-3	RF		CV/YC				V5/V6					HDMI		MS	Twin	ATSC			
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p	
						Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
						Standard	1	1	1	2	1	2	1	2	1	1	1	1	2	1	1	1
				Movie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		
				Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	12	GAMS	0-15	GAMM = 0	GAMM = 1	GAMM = 2	GAMM = 3	Note: Settings based on GAMM data														
	13	GAMR	0-15	0	4	6	12															
	14	GAMG	0-15	0	4	6	12															
	15	GAMB	0-15	0	4	6	12															
	16	BLK	0-3	RF		CV/YC				V5/V6					HDMI		MS	Twin	ATSC			
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p	
						Vivid	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
						Standard	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			Movie	0	0	1	0	1	0	1	0	1	0	1	0	1	0	3	1			
			Pro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17	DCTR	0-15	BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data															
18	APED	0-3	0	0	1	2																
19	DSBO	0-15	9	7	7	7																
20	IDSW*	0-7	0*																			
21	ABLM	0-3	BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data															
			Single		MS																	
			Others	1080Vcom	VGA	Others																
22	ABLT	0-15	0	7	15																	
23	SPOF	0-31	5																			
24	DPSQ	0,1	BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data															
25	LRGB	0-15	3																			

VIDEO & AUDIO

Category	No	Item	Range							
CXA2171				V5/V6/ATSC 1080i/720p	HDMI uTiny/\$6D_00 Byte1/Bit6=1	HDMI uTiny/\$6D_00 Byte1/Bit6=0	Others			
	0	MTRX*	0-3	1*	1*	0*	0*			
				PT	Others	HDMI				
	1	GAIN	0-3	0	0	0				
				V5 480p/ 720p/1080i/ No Sync	V6 480p/ 720p/1080i/ No Sync	HDMI 480p/ 720p/1080i/ No Sync	ATSC 720p/1080i	ATSC 480p/MS	Others	
	2	FIXS	0-3	3	3	3	2	3	1	
				PT	Others	HDMI				
	3	CBGN	0-15	9	6	4				
	4	CRGN	0-15	8	6	5				
	5	YGN	0-15	8	7	6				
				V5/V6-1080i/MS	HDMI 1080i	Other				
	6	VTC	0-3	0	0	0				
			Tristate=1	Tristate=0						
7	HTC*	0,1	0*	1*						
			V5/V6-1080i/MS	HDMI 1080i	Other					
8	HWID	0-3	1	1	1					
9	HSEP	0,1	1	1	1					
			V5&6/DVI/MS 1080i	Others						
10	HMSK*	0,1	0*	1*						
			V5 480p/ 720p/1080i/ No Sync	V6 480p/ 720p/1080i/ No Sync	HDMI 480p/ 720p/1080i/ No Sync	ATSC 720p/1080i	ATSC 480p/MS	Others		
11	FRGB	0,1	0	0	0	0	0	0		
			ATSC 720p/1080i	Others						
12	HYSW	0,1	1	0						
AUDIO	0	ASYS	0,1	0						
	1	TRCV	0-3	1						
	2	BACV	0-3	0						
	3	MDCV	0-3	0						
	4	SVHI	0-7	3						
	5	SVLO	0-7	0						
	6	MIDL	0-15	5	34XS/30XS/32XS					
	7	LOFQ	0-7	0						
	8	SBAS	0-15	9						
	9	MIDT	0-15	2						
	10	STRE	0-15	7						
	11	TRFQ	0-15	4						
	12	PSEF	0-15	5						
	13	AGCL	0-15	9						
				TruSurround	Simulated	SteadySound	Off			
	14	BBE	0,1	1	1	1	1			
	15	BBEP	0-7	7	5	5	7			
	16	BBEL	0-7	4	4	4	4			
17	BB2P	0-7	5	5	5	5				
18	BB2L	0-7	4	4	4	4				
19	TRS1	0-7	4							
20	TRS2	0-7	2							

Note:
PT = Pass Through

VIDEO & AUDIO

Category	No	Item	Range									
SNNR	0	MODE	0-3									
	1	SNNR	0-7	0								
	2	WSLT	0-255		WSLT- A	WSLT- B	WSLT- C	WSLT- D	WSLT- E	WSLT- F	WSLT- G	
					15	31	45	63	85	110	127	
	3	CPFG	0-15		SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	SNNR = 4	SNNR = 5	SNNR = 6	SNNR = 7
	4	CPFT	0-3	0	0	1	1	2	2	2	2	3
	5	CCOR	0-3	0	0	0	0	0	0	0	0	0
	6	CHCG	0,1	1	1	1	1	1	1	1	1	1
	7	CAPG	0-7	0	0	0	0	0	0	0	0	0
	8	3SHP	0-15	0	0	1	1	2	2	2	2	3
	9	NYNR	0-15	1	1	2	2	3	3	3	4	4
	10	NCNR	0-15	1	1	2	2	3	3	3	4	4
	11	NYMG	0-3	0	0	0	0	0	0	0	0	0
	12	NCMG	0-3	0	0	0	0	0	0	0	0	0
	13	NYLT	0-15	0	0	1	2	3	4	4	6	8
	14	NYNC	0-15	1	1	2	2	3	3	3	4	4
	15	NYCO	0,1	0	0	1	1	1	1	1	1	1
	16	7SHP	0-63	0	0	1	1	3	3	3	3	4
17	7YF1	0-3	0	0	1	1	2	2	2	2	3	
18	7LTI	0-3	0	0	0	0	0	0	0	0	0	
19	7CTI	0-3	0	0	0	0	0	0	0	0	0	
20	7VML	0-15	0	0	0	0	0	0	0	0	0	
21	7VMC	0-3	0	0	1	1	2	2	2	2	3	
22	MIDD	0-63	0	0	1	1	2	2	2	2	3	

VIDEO & AUDIO

Category	No	Item	Range								
3DNR	0	WHCT	0-63	44							
	1	NIQM	0,1	1							
	2	CLPW	0-63	30							
	3	CLPP	0-255	80							
	4	YHBW	0-255	138							
	5	YBKL	0-15	0							
	6	YBKO	0,1	0							
	7	MUTE	0,1	0							
	8	YHBS	0-127	40							
	9	CHBW	0-255	138							
	10	CBKO	0-127	40							
	11	CHBO	0,1	0							
	12	VHBL	0-15	0							
	13	UHBL	0-15	0							
	14	UVDL	0-7	0							
	15	YDL	0-7	0							
	16	PVDI	0,1	0							
	17	PHDI	0,1	0							
	18	HDW	0-63	16							
	19	PVDO	0,1	0							
	20	PHDO	0,1	0							
	21	HST	0-255	54							
	22	VDL	0-15	0							
	23	VDW	0-15	3							
	24	NDET	0-15	0							
	25	NVP	0-15	2							
	26	NDTS	0-3	3							
	27	HROF	0,1	0							
	28	NDGW	0-15	9							
	29	UOFS	0-7	1							
	30	POT	0-3	0							
	31	UVF	0,1	0							
	32	APC	0,1	1							
33	DAP	0,1	0								
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
34	YLV	0-15		15	15	10	10	10	10	8	8
35	YST	0,1		0							
36	YNT	0,1		1							
37	YPL	0,1		1							
38	YMV	0,1		0							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
39	YCR	0-31		3	3	3	3	3	3	3	3
40	VOS	0-7		1							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
41	YMG	0-3		3	3	3	3	3	3	3	3
42	YEG	0,1		0							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
43	YEL	0-15		6	6	6	6	6	6	6	6
44	YLM	0-127		6	6	6	6	6	6	6	6
45	CLV	0-15		15	15	10	10	10	10	8	8
46	CNT	0,1		1							
47	CPL	0,1		1							

VIDEO & AUDIO

Category	No	Item	Range	Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	48	CMG	0-3	3	3	3	3	3	3	3	3
	49	CCR	0-31	3	3	3	3	3	3	3	3
	50	CLM	0-127	6	6	6	6	6	6	6	6
	51	NVSL	0-255	20							
	52	NVSH	0,1	1							
	53	NHS	0-127	16							
	54	NVEL	0-255	244							
	55	NVEH	0,1	0							
	56	NHE	0-127	120							
				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	57	YNG	0-3	3	3	3	3	3	3	3	3
	58	COR	0,1	0	0	0	0	0	0	0	0
	59	LPF	0,1	0	0	0	0	0	0	0	0
	60	YLT	0-15	6	6	6	6	6	6	6	6
	61	YNC	0-15	8	8	8	8	8	8	8	8
	62	YCO	0,1	0	1	0	0	0	0	0	0
	63	ADTH	0,1	0							
DRCV	0	ORES	0-255	Vivid	RF	CV/YC	V5/V6-480i	HDMI	ATSC		
				Standard	128	128	128	128	128		
				Movie	128	128	128	128	133		
				Pro	128	128	128	133	133		
	1	ONCT	0-255	Vivid	RF	CV/YC	V5/V6-480i	HDMI	ATSC		
				Standard	128	128	128	128	128		
				Movie	128	133	133	133	128		
				Pro	128	128	128	133	128		
	2	NRA	0-255	SNNR = 1	SNNR = 2	SNNR = 3	SNNR = 4	SNNR = 5	SNNR = 6	SNNR = 7	
	3	NRB	0-255	0	0	0	0	0	0	0	
			128	128	128	128	128	128	128		
OP	0	DLY1	0-31	4							
	1	DLY2	0-31	12							
	2	DLY3	0-15	7							
	3	OSDH	0-255	17							
	4	AACK*	0-3	2 *							
	5	DINT*	0,1	0 *							
	6	RAMW*	0-3	0 *							
ID				30XS955		32XS955	34XS955			Note	
				US	HAWAII	US	US	CND	HAWAII		
	0	ID0	0-255	89	89	89	89	89	89		
	1	ID1	0-255	255	255	255	255	255	255		
	2	ID2	0-255	255	255	255	255	255	255		
	3	ID3	0-255	110	110	110	110	110	110	Vchip-US&CND/DRC Volume	
	4	ID4	0-255	203	203	203	203	203	203		
	5	ID5	0-255	207	207	207	207	207	207		
6	ID6	0-255	62	62	62	62	62	62			
7	ID7	0-255	17	17	17	17	17	17	XBR(2 tuner)/16:9		

DEFLECTION

Category	No	Item	Range										
2170D-1	0	VPOS	V Position	0-63	26								
	1	VSIZ	V Size	0-63	35								
	2	VSZO	V Size Offset	0-63	1080Full	Others	Note: Used for PJ only						
					0	1							
					WideZoom	Others							
	3	VLIN		0-15	5	5							
	4	VSCO		0-15	10	4							
	5	VCEN		0-63	14								
					1080Vcomp	Others							
					480Vcomp	Expansion Zoom or Zoom-V							
	6	VPIN		0-31	19	25							
	7	MVPN		0-3	0								
	8	NSCO		0-63	31								
	9	HTPZ		0-31	20								
	10	MHTZ		0-3	0								
					WideZoom	Zoom	Others	Expansion Zoom or Zoom-V					
	11	ZOOM		0,1	1	1	0	1					
					WideZoom	Zoom	480Full	1080Full	1080Vcomp	480Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V	
12	APSW		0,1	1	1	1	0	0	1	1	0		
13	ASPT		0-63	20	47	3	0	47	3	43	0		
14	SCRL		0-63	32	31	31	31	31	31	31	0		
				WideZoom	Others	Note: Data variation for 16x9//4x3 models							
15	UVLN		0-15	4	0								
16	LVLN		0-15	4	0								
2170D-2	0	HCNT		0-63	29								
					1080Full	Others							
					1080Vcomp								
	1	HPOS		0-63	15	22							
	2	HSIZ		0-63	42	36	Note: Different settings used for KV-34/30XBR910 models						
	3	SLIN		0-15	10	3							
	4	MPIN		0-15	10	9							
					WideZoom	Others	1080i						
	5	PIN		0-63	22	13	14						
					WideZoom	Zoom	480Full	1080Full	1080Vcomp	480Vcomp			
	6	PINO		0-15	7	7	7	9	7				
					WideZoom	Others	1080i						
	7	UCP		0-63	36	34	35						
	8	LCP		0-63	37	34	33						
					Others	1080i							
	9	UXCG		0-3	0	0							
	10	LXCG		0-3	0	0							
	11	UXCP		0-3	2	2							
12	LXCP		0-3	2	2								
13	XCPP		0,1	0	0								
				WideZoom	Others								
14	PPHA		0-63	21	21								
15	VANG		0-63	33									
16	LANG		0-63	20									
17	VBOW		0-63	24									
18	LBOW		0-63	37									

DEFLECTION

Category	No	Item	Range								
2170D-3	0	HBLK	0,1	1							
				1080Full 1080Vcomp		Others					
	1	LBLK	0-63	47		47					
	2	RBLK	0-63	26		47					
				WideZoom		Zoom		480Full 1080Full		480Vcomp 1080Vcomp	
	3	VBLK	0,1	0		0		1		1	
										Expansion Zoom or Zoom-V	
										Note: Data variation for 16x9//4x3 models	
				WideZoom		Zoom		480Full		1080Full	
	4	TBLK	0-15	12		7		2		4	
	5	BBLK	0-15	15		7		8		6	
								1080Vcomp		480Vcomp	
										HD (1080i/720p) Expansion Zoom or Zoom-V	
										SD (16:9 Aspect signal) Expansion Zoom or Zoom-V	
			1080Full 1080Vcomp		Others						
6	AFCM	0-3	2		3				Note: Data variation for 16x9//4x3 models		
			1080Vcomp 480Vcomp		Others Expansion Zoom or Zoom-V				Note: Data variation for 16x9//4x3 models		
7	JUMP	0,1	0		0						
			WideZoom		Zoom		480Vcomp 480Full		1080Full		
8	VDJP	0,1	1		1		0		1		
									HD (1080i/720p) Expansion Zoom or Zoom-V		
									SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
			1080Vcomp 1080Full		Others						
9	VDST	0,1	0		0						
			WideZoom		Zoom		480Vcomp 480Full		1080Full		
10	AKBT	0-31	15		15		20		16		
							1080Vcomp		HD (1080i/720p) Expansion Zoom or Zoom-V		
									SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
2170D-4				1080Vcomp 480Vcomp		Others				Note: Different settings used for KV-34/30XBR910 models	
	0	QPAM	0-63	22		22					
	1	QPAV	0-63	41		41					
	2	QPAP	0-15	6		6					
	3	QPDC	0-63	43		43					
	4	QPDV	0-63	55		55					
	5	QPDP	0-15	6		6					
	6	CPY1*	0,1	0*							
	7	DF	0-63	36						Different settings (maybe) for KV-34/30XBR910 models	
8	DQP	0-63	37								

HELIOS

Category	No	Item	Register name	Range																
MIDI1	0	DPHP	d_h_phase	0-255	101															
	1	DVPH	d_v_phase	0-255	40															
	2	DHAR	d_h_area	0-255	240															
	3	DVAR	d_v_area	0-255	135															
	4	DHPW	d_h_pwidth	0-63	55															
	5	DVPW	d_v_pwidth	0-7	5															
					Single															
					480i	Others														
	6	DYCD	d_yc_delay	0-63	3 2															
					Table-0	Table-1	Table-2	Table-3												
	7	DYSD	d_ys_delay	0-7	2 2 2 2															
					Single															
					VGA		Others													
					Normal	Others	Normal	Others												
	8	MDHP	m_dsp_hpos	0-255	47 21 41 0															
					Single															
					480i/480p	VGA	Others													
9	MDVP	m_dsp_vpos	0-255	0 10 0																
				Single																
				VGA		Others														
				Normal	Others	Normal	Others													
10	MDHS	m_dsp_hsiz	0-255	152 0 159 240																
				Single																
				480i/480p	VGA	Others														
11	MDVS	m_dsp_vsiz	0-255	120 105 135																
				Color Temp Neutral	Color temp Cool	Color temp Warm														
12	DGSB	grnstrb	0-3	0 0 0																
13	DGSR	grnstr	0-3	0 0 0																
				1080i Single	Others															
14	DPSW	dsp_ck_sel	0,1	0 0																
functionID	15	MDLO		0-63 12																
				Single																
				Normal	Others	MemoryStick														
16	BCOL	d_back_y	0-15	0 0 0																
17	DYSS	d_ys_slct	0-3	1																
DRCMFV1	0	MFVR	drc_mfvr	0,1	1															
				RF	Others															
	1	FMTH	drc_fmthld	0-3	1 1															
	2	FSEL	drc_fsel	0,1	1															
	3	LMIT	drc_limit	0,1	0															
					Vivid	Standard	Movie	Pro												
	4	LMLV	drc_lmlev	0-3	2 2 2 2															
	5	LMSL	drc_lmrfsel	0,1	1															
	6	VDLY	drc_vdl	0-3	1															
	7	VDPR	drc_vdpr/vdd	0-3	3															
	8	WPLL	drc_s	0-3	2															
	9	CRCT	drc_crct	0,1	0															
				RF	CV/YC	V5/V6	HDMI													
10	VRA	drc_vra	0-255	126 126 126 126																
11	VRB	drc_vrb	0-255	110 97 160 116																
ENHA		Enhancement register			RF	CV/YC	V5/V6				HDMI				MS	ATSC				
	0	HSHP	sharpness	0-255	70	80	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	50	480i	480p	1080i	720p
	1	HSFO	shp0	0-15	13	13	75	60	75	80	80	75	75	75	75	13	50	60	60	60
	2	HPOR	preover	0-15	8	8	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	3	HLTL	ltilev	0-3	0	0	8	8	8	8	8	8	141	8	8	8	8	8	8	8
	4	HLLM	ltimode	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	HAPL	apedlev	0-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	HAPA	apedarea	0-15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	7	HCTL	ctilev	0-15	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
8	HCTM	ctimode	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

HELIOS

Category	No	Item	Register name	Range																					
MID2					Single	480i V5/V6		YC		480i HDMI/ATSC		V5/ V6				HDMI/ATSC				HDMI		Expansion			
						Normal	Others	Normal	Others	Normal	Others	1080i	MS	720p	480p		1080i	720p	480p		VGA		480i	720p	1080i
	0	DHHP	min_hactv_pos	0-255		78	57	79	57	74	55	38		50	78	57	127	43	161	57	75	75	50	76	86
	1	DHHS	min_hactv_siz	0-255		161	182	161	184	161	183	178		119	161	183	176	119	24	183	171	171	183	80	121
	2	DHVP	min_vactv_pos	0-255		27	29	27	29	29	29	40		54	27	38	85	52	60	24	34	34	29	52	37
3	DHVS	min_vactv_siz	0-255	60	60	60	60	60	60	67		90	60	60	67	90	0	60	60	60	60	90	67		
4	DHVL			0	0	0	0	0	0	4		0	0	0	0	0	1	0	0	0	0	0	4		

MID3	No	Item	Register name	Range	YC	V5/V6				HDMI/ATSC				HDMI	Expansion			
						480i	1080i/MS	720p	480p	480i	1080i	720p	480p		480i	1080i	720p	480p
0	YCPO	yclp_pos		0-255	200	200	40	75	200	40	52	75	120	200	40	52	75	
1	CCPO	ccdp_pos		0-255	200	200	40	75	200	40	52	75	120	200	40	52	75	
2	PRBP	prefil_bypass		0-1	0	0	1	1	0	1	1	1	0	1	1	1		
3	DOSA	down_sample_on		0-1	1	1	0	0	1	0	0	0	1	0	0	0		
4	YCWD	clp_width		0-3	1	1	1	1	1	1	1	1	1	1	1	1		
5	MYCD	min_yc_delay		0-7	0	0	0	0	0	0	0	0	0	0	1	0		
6	PSTP	adc_pll_stop		0-255	254	254	136	180	129	254	136	180	129	254	136	180	129	
7	PSTT	adc_pll_strt		0-15	0	0	0	0	0	0	0	0	0	7	0	8	0	
8	VHSC	min_hsync_cyc		0-255	53	53	50	37	53	53	50	37	53	50	37	53		
9	VHSL			0-255	19	19	1	16	19	19	19	19	19	19	1	16	31	
10	PLHC	pll_h_cyc		0-255	214	214	100	75	107	214	100	75	107	214	100	75	107	
11	PLHL	pll_h_cyc		0-15	8	8	2	1	4	8	2	1	4	8	2	1	4	
12	MDTC	min_eo_dtct		0-3	1	1	2	0	2	1	2	0	1	2	0	2		
13	MFRV	min fld_rev		0,1	0	0	0	0	0	0	0	0	0	0	0	0		

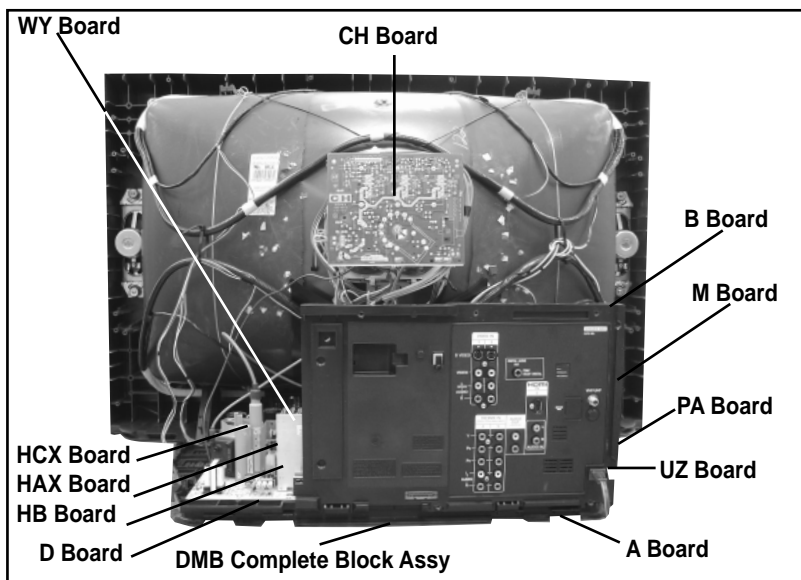
MID5	No	Item	Register name	Range	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	POP			0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	MHLY	m_hlpf_ycoef		0-3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	MHLC	m_hlpf_ccoef		0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	MVLY	m_vlpf_ycoef		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	MVLC	m_vlpf_ccoef		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	MHYR	m_henh_ycore		0-3	0	1	1	1	2	3	3	2	0	2	2	0	0	1	1	1
6	MHYL	m_henh_yclip		0-3	0	1	1	1	1	2	1	0	1	2	1	0	0	2	2	2
7	MHYE	m_henh_yenh		0-7	0	2	5	5	6	7	7	6	5	2	4	7	0	0	2	7
8	MHYO	m_henh_ycof		0,1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0
9	MHCR	m_henh_ccore		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	MHCL	m_henh_cclip		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	MHCE	m_henh_cenh		0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	MHCO	m_henh_ccof		0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	MVYR	m_venh_ycore		0-3	0	0	0	1	2	2	1	0	1	1	2	0	0	1	2	2
14	MVYL	m_venh_yclip		0-3	0	0	0	1	1	1	1	0	1	1	1	0	0	1	2	2
15	MVYE	m_venh_yenh		0-7	0	0	0	1	3	1	1	0	3	3	3	0	0	3	3	3
16	MVCR	m_venh_ccore		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	MVCL	m_venh_cclip		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	MVCE	m_venh_cenh		0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	MENM	m_enh_mode		0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	MHEL	m_henh_limit		0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	MVEL	m_venh_limit		0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

4-5. ID MAP TABLE


ID				34XBR970	Note
	No	Item	Range	US	
0	ID0	min_hactv_pos	0-255	89	
1	ID1	min_hactv_siz	0-255	255	
2	ID2	min_vactv_pos	0-255	255	
3	ID3	min_vactv_siz	0-255	110	Vchip-US&CND/DRC Volume
4	ID4		0-255	203	
5	ID5		0-255	207	
6	ID6		0-255	62	
7	ID7		0-255	17	XBR(2 tuner)/16:9

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

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

When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by  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.

Part Replaced ()	Adjustment ()
D BOARD: IC6503, IC8001, IC8002, IC8004, IC8005, IC8104, D8022, PH8003, Q8007, Q8008, R6590, R8012, R8014, R8015, R8016, R8017, R8019, R8021, R8027, R8029, R8030, R8031, R8035, R8036, R8037, R8038, R8039, R8040, R8043, R8046, R8052, R8059, R8060, R8066, R8072, R8078, R8079, R8082, R8165, T8001	HV ADJUST No HV Adjustment Required

REFERENCE INFORMATION

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

5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

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. $k\Omega=1000\Omega$, $M\Omega=1000k\Omega$

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 $\frac{1}{16}$ W in chip resistance.

 : nonflammable resistor

 : fusible resistor

\triangle : internal component

 : panel designation and adjustment for repair

\perp : earth ground

|||| : earth-chassis

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 Ω digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

 : B+line.

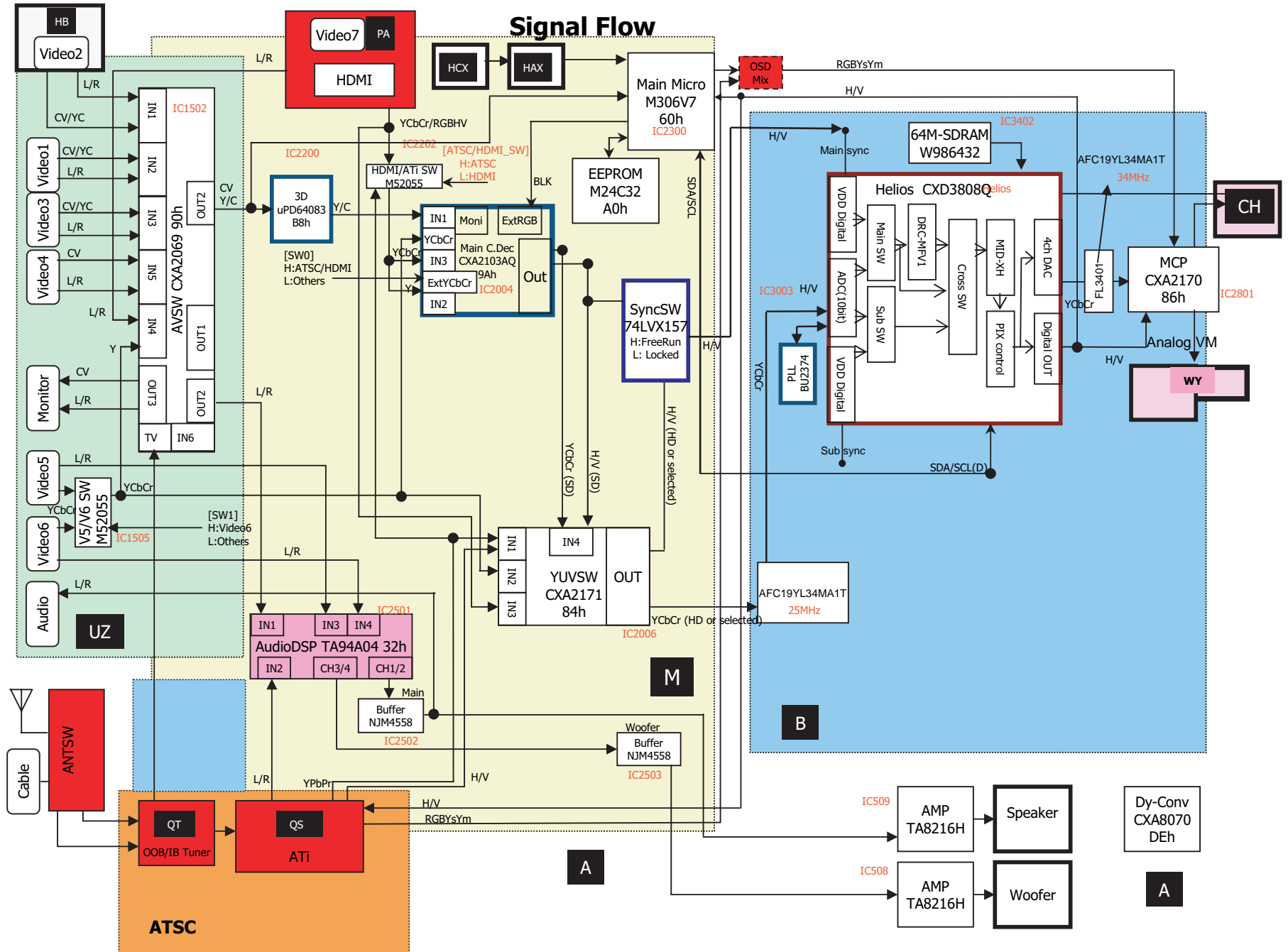
 : B-line. (Actual measured value may be different).

 : signal path. (RF)

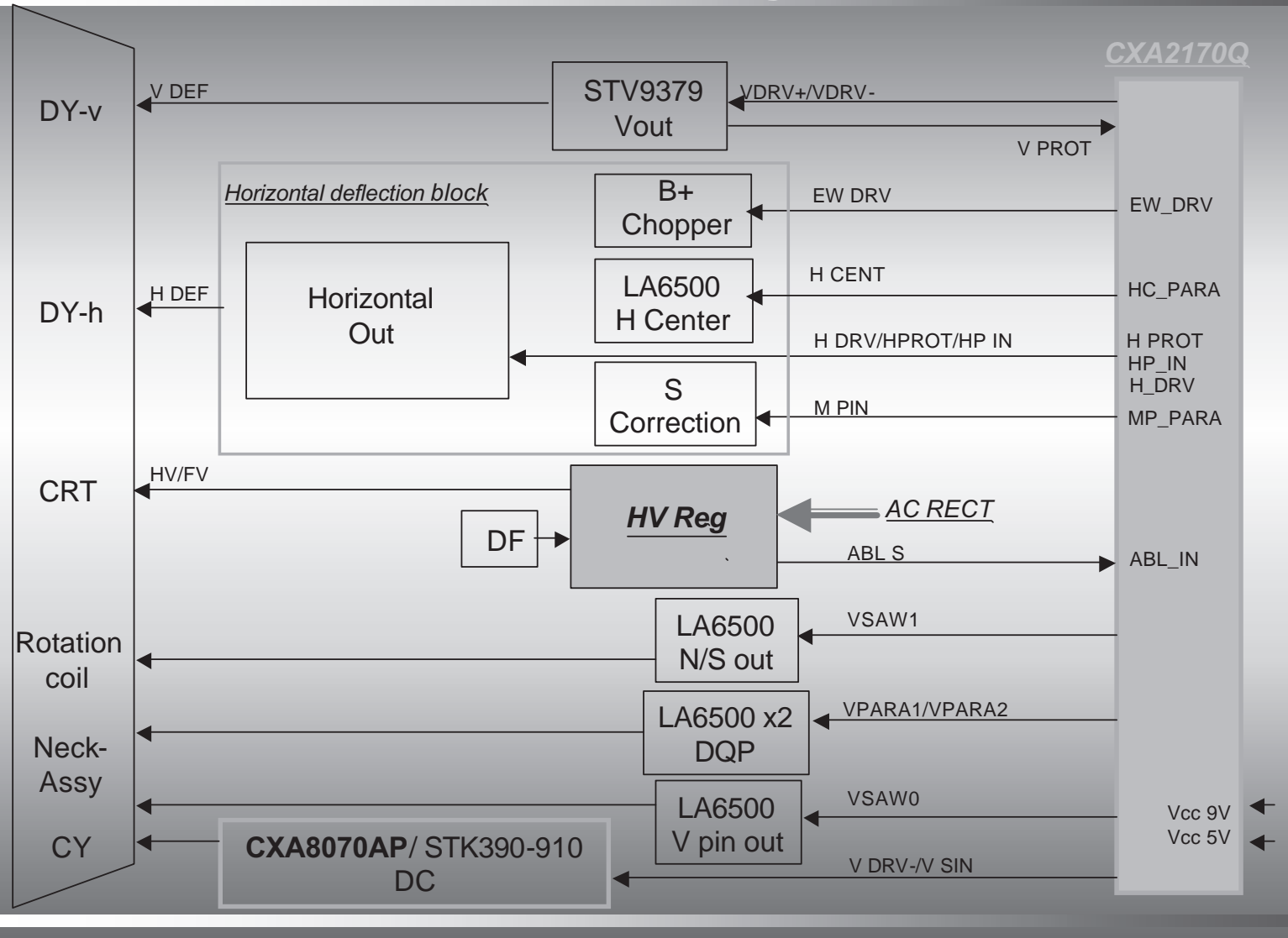
Circled numbers are waveform references.

5-3. BLOCK DIAGRAMS

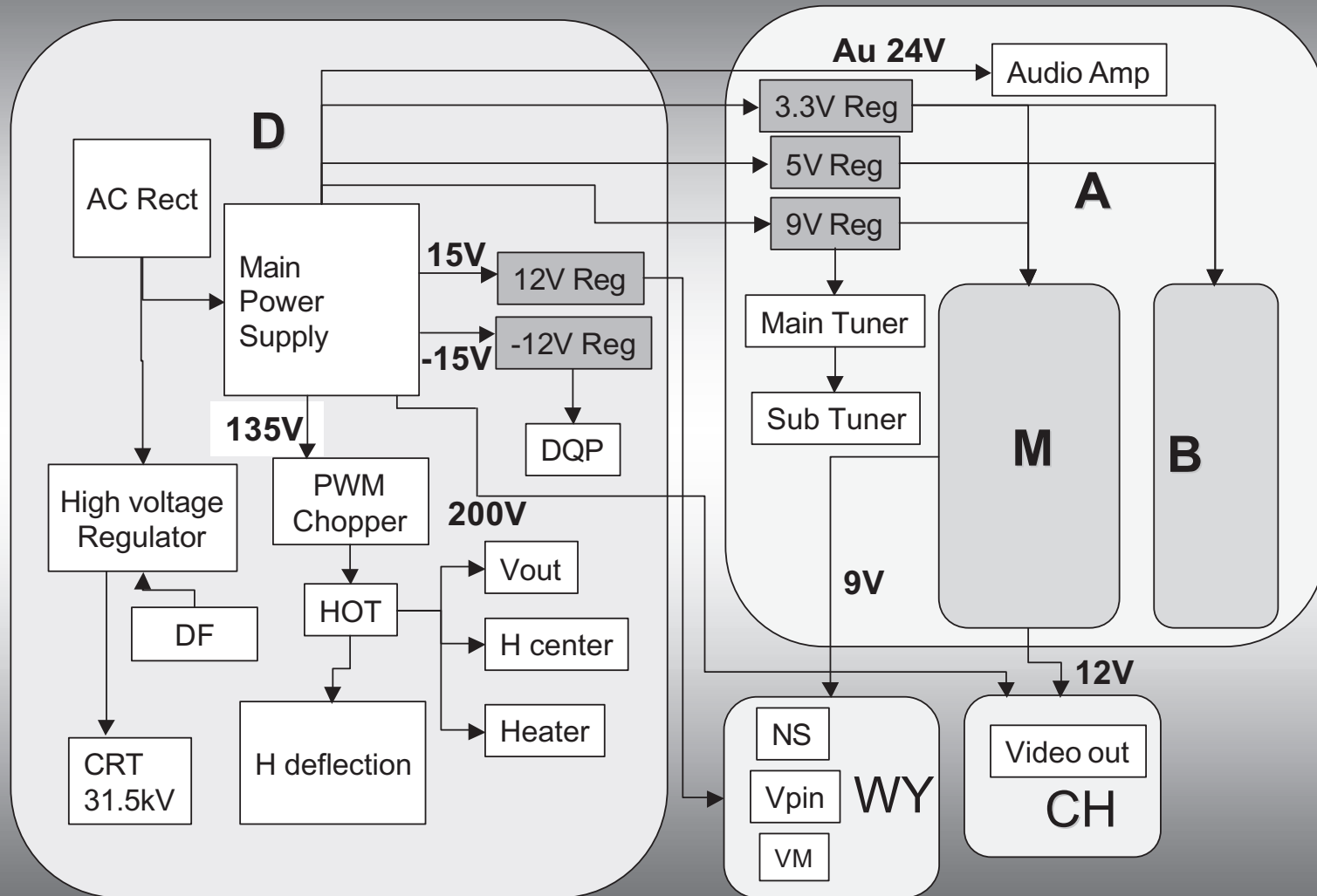
BLOCK DIAGRAMS (1 OF 3)



Deflection & HV System Block

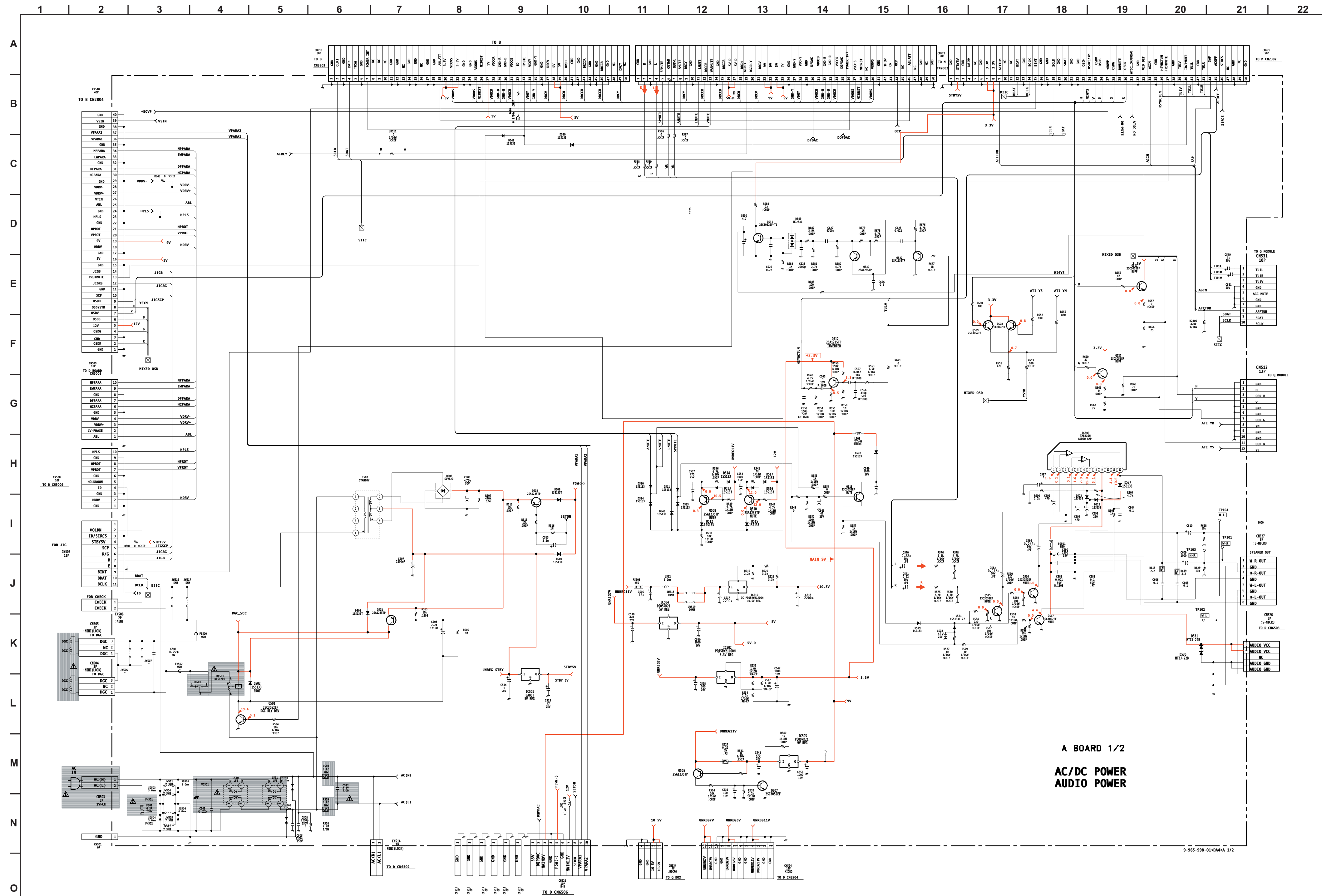


Power Supply Load Map



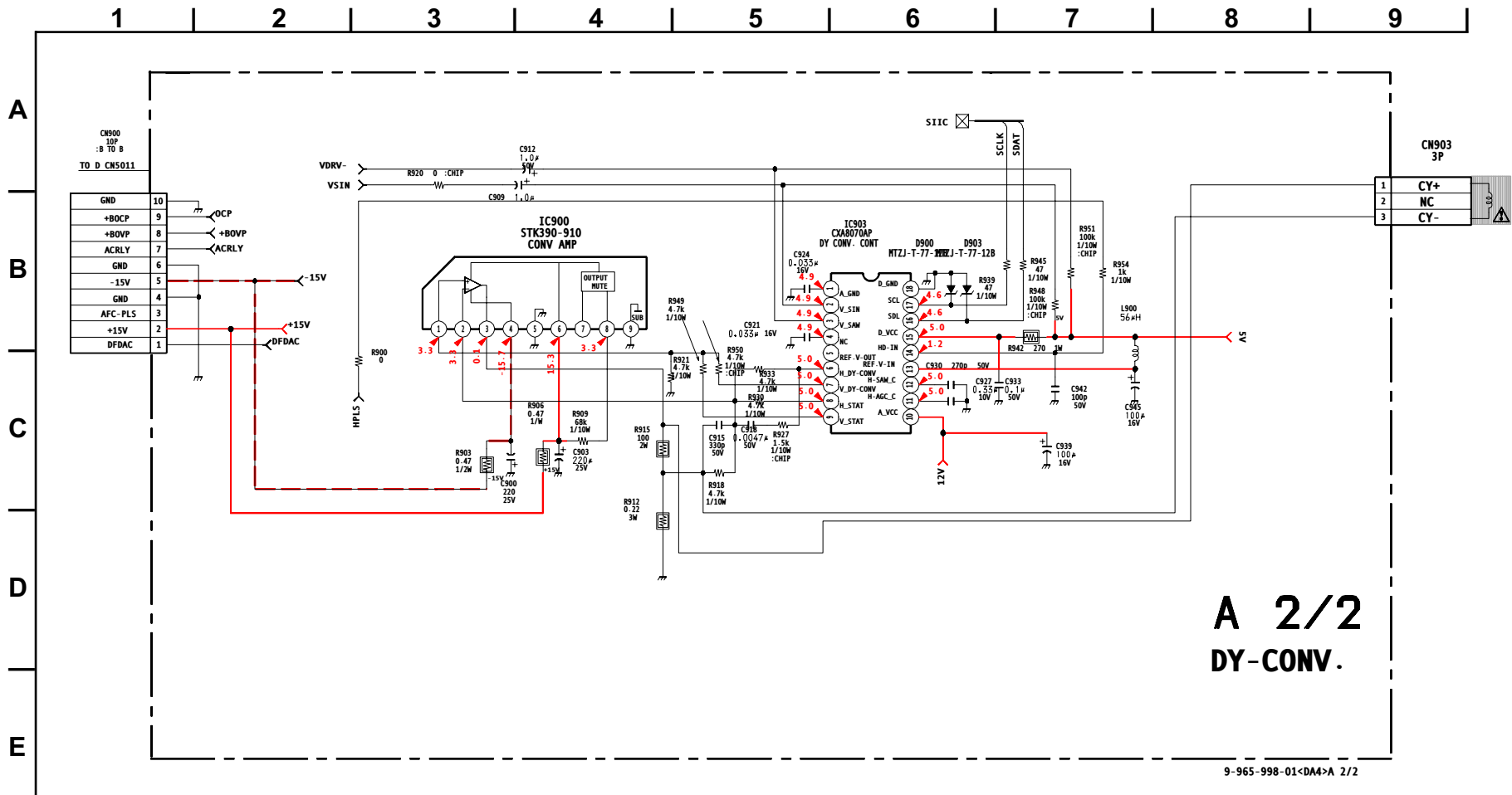
5-4. SCHEMATICS AND SUPPORTING INFORMATION

A BOARD SCHEMATIC DIAGRAM (1 OF 2)



A BOARD 1/2
AC/DC POWER
AUDIO POWER

A BOARD SCHEMATIC DIAGRAM (2 OF 2)

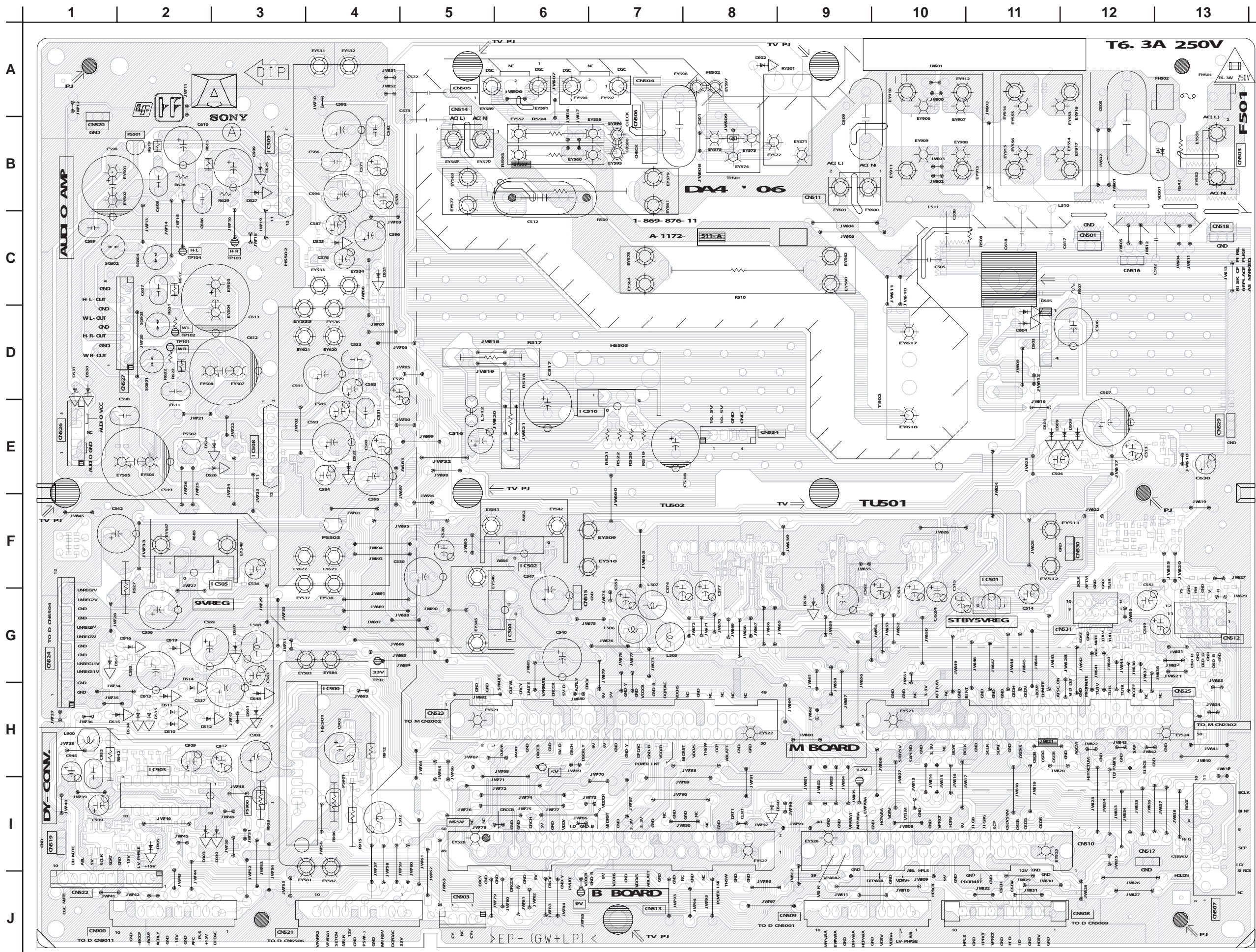


9-965-998-01-DA4>A 2/2

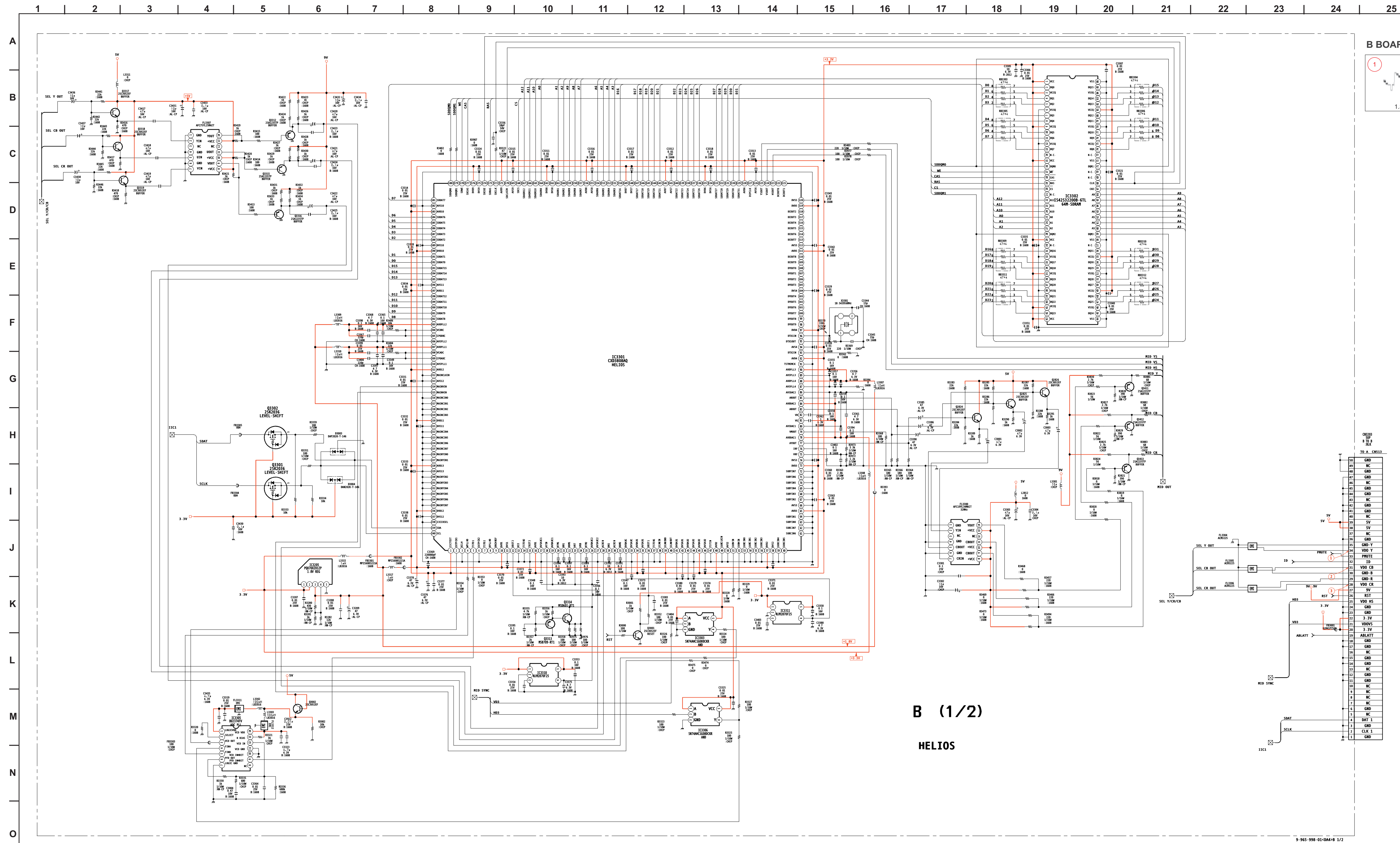


[AC/DC POWER, AUDIO POWER, DY-CONV]

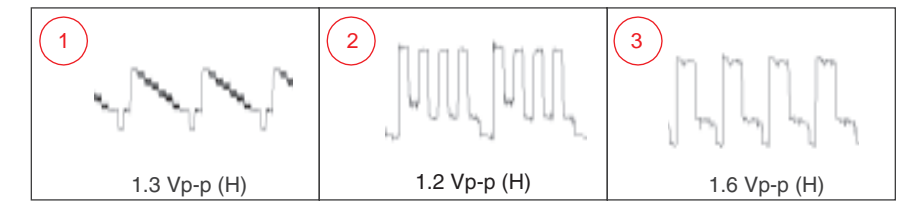
COMPONENT SIDE



Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

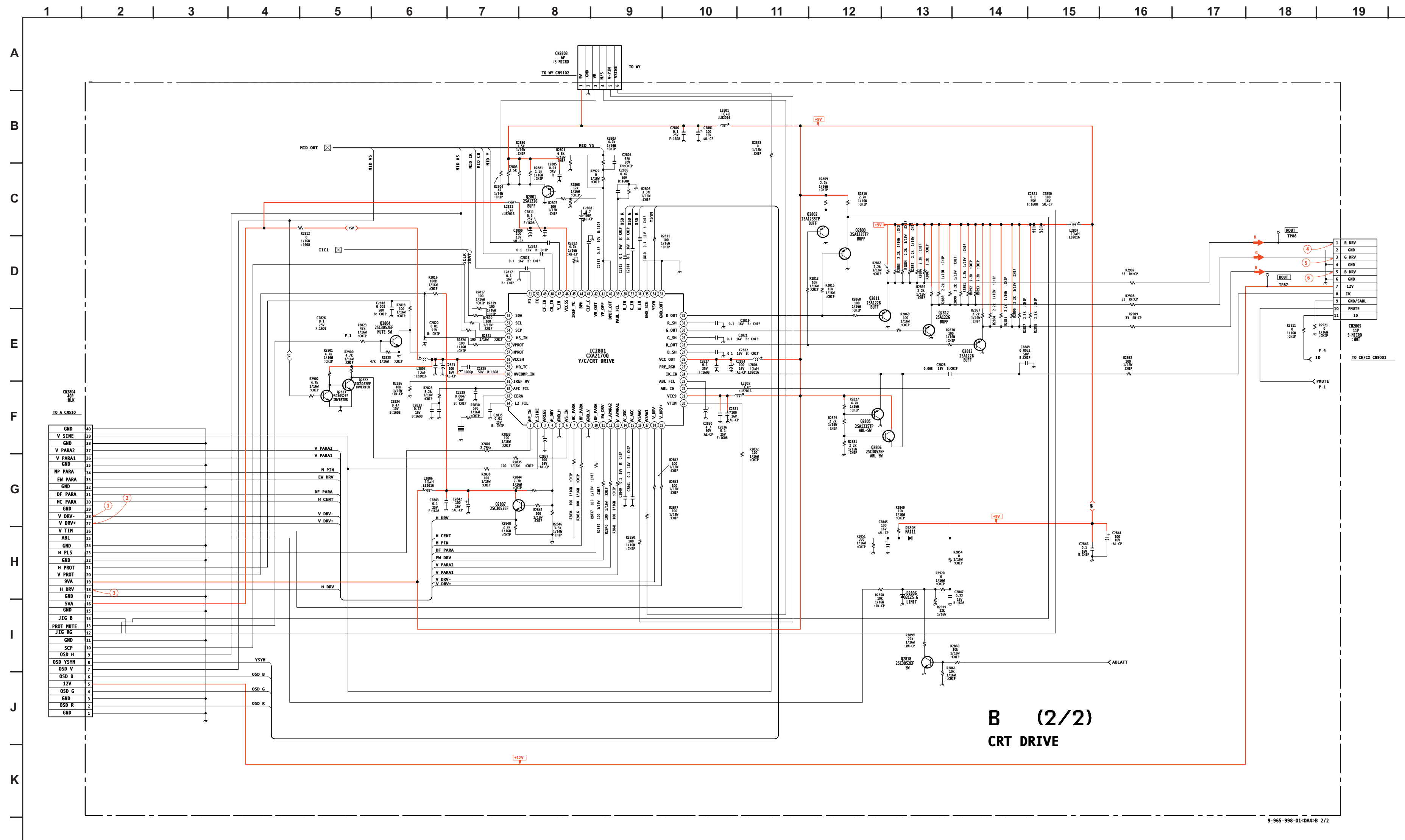


B BOARD WAVEFORMS

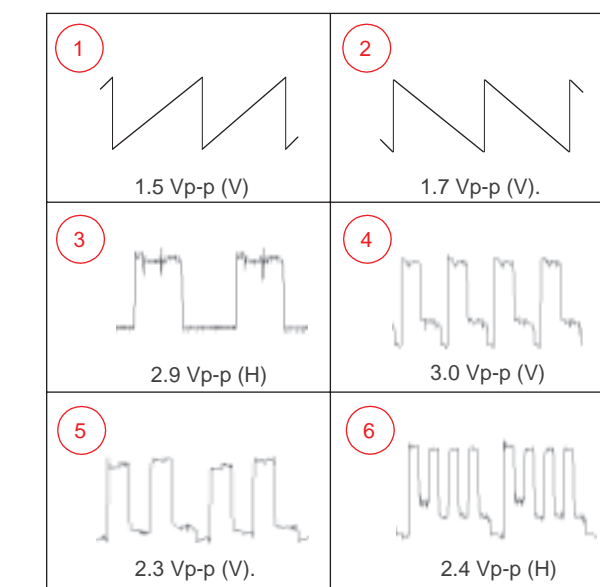


B BOARD SCHEMATIC DIAGRAM (2 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



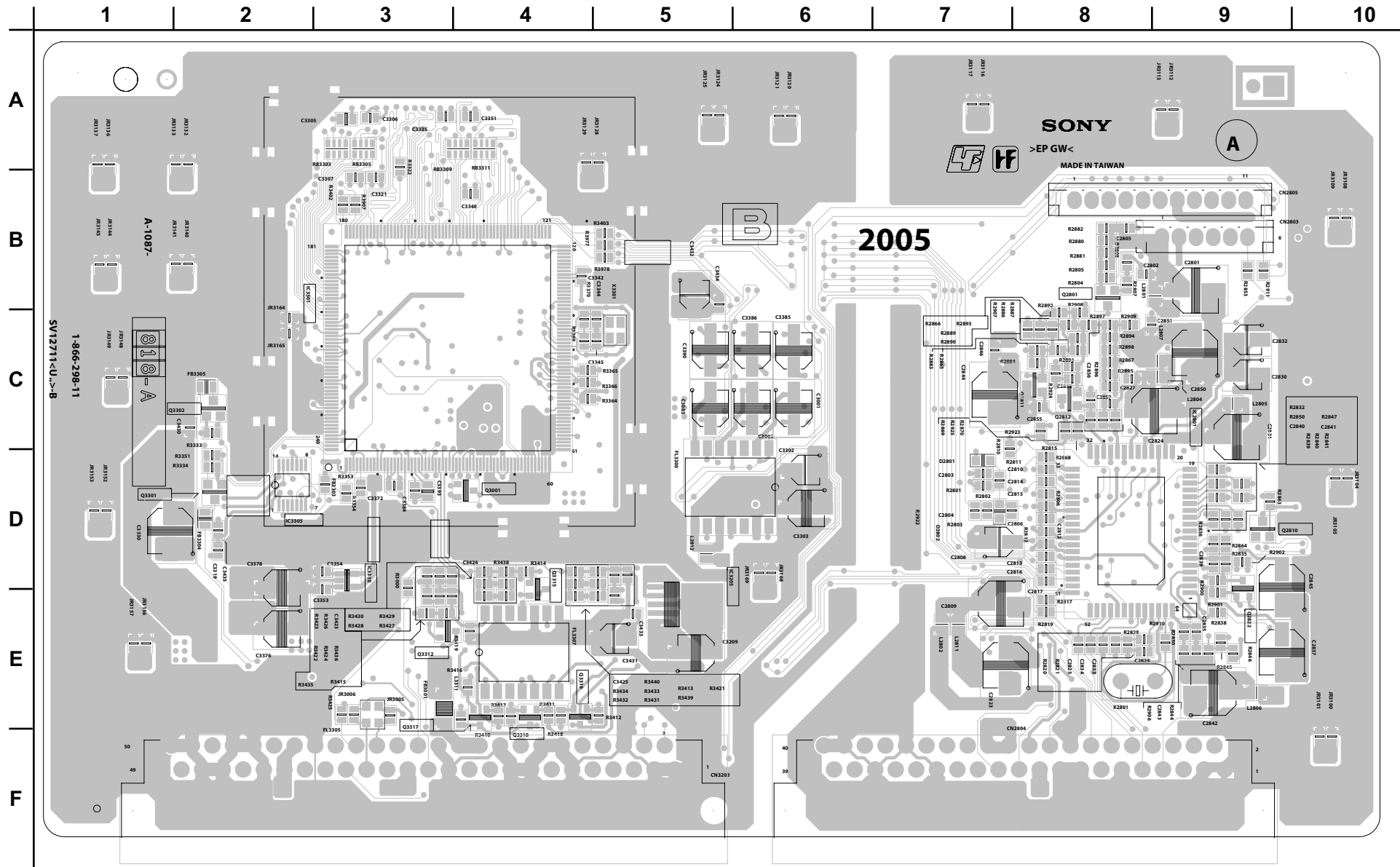
B BOARD WAVEFORMS



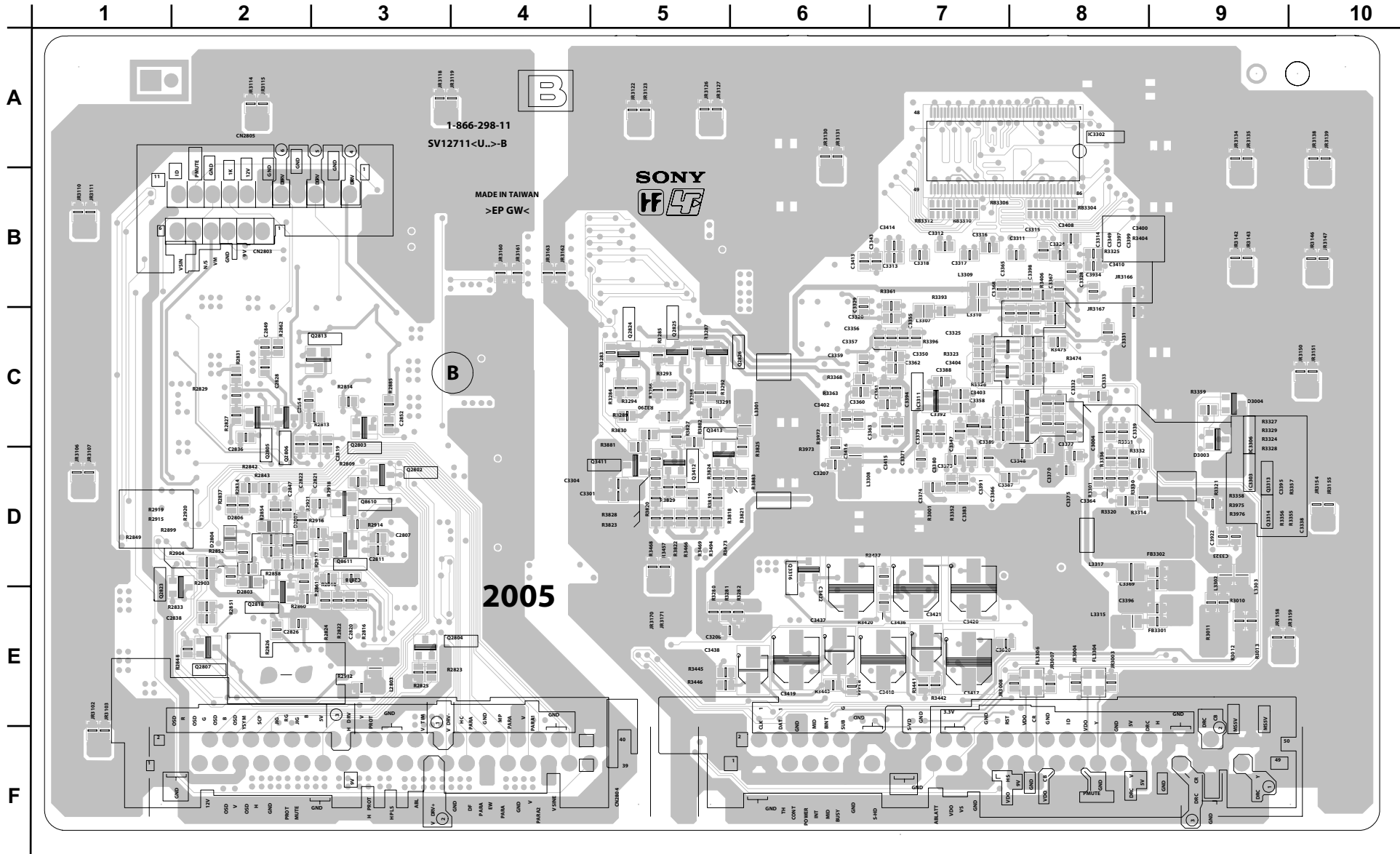
B (2/2)
CRT DRIVE

9-965-998-01-00A-9 2/2

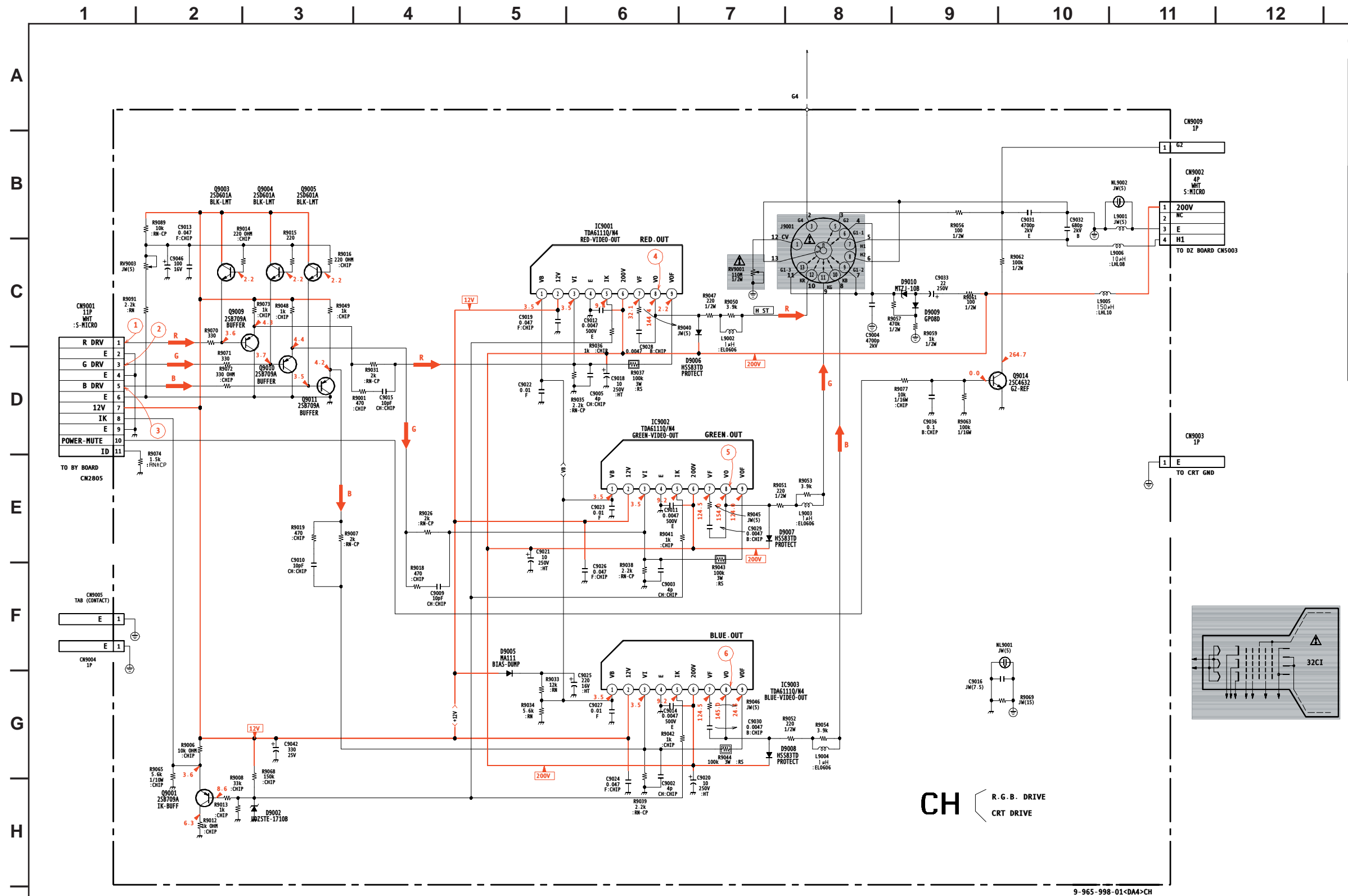
B [HELIOS, CRT DRIVE]
COMPONENT SIDE



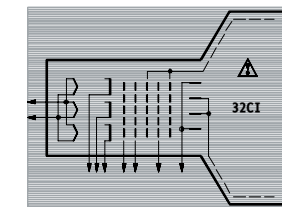
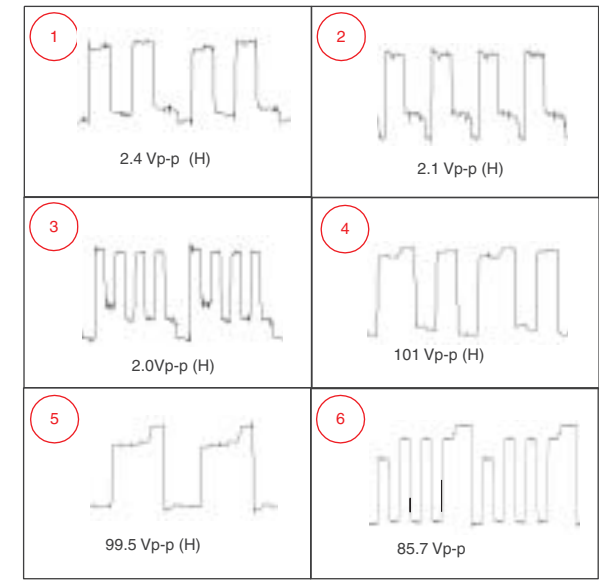
B [HELIOS, CRT DRIVE]
CONDUCTOR SIDE



CH BOARD SCHEMATIC DIAGRAM



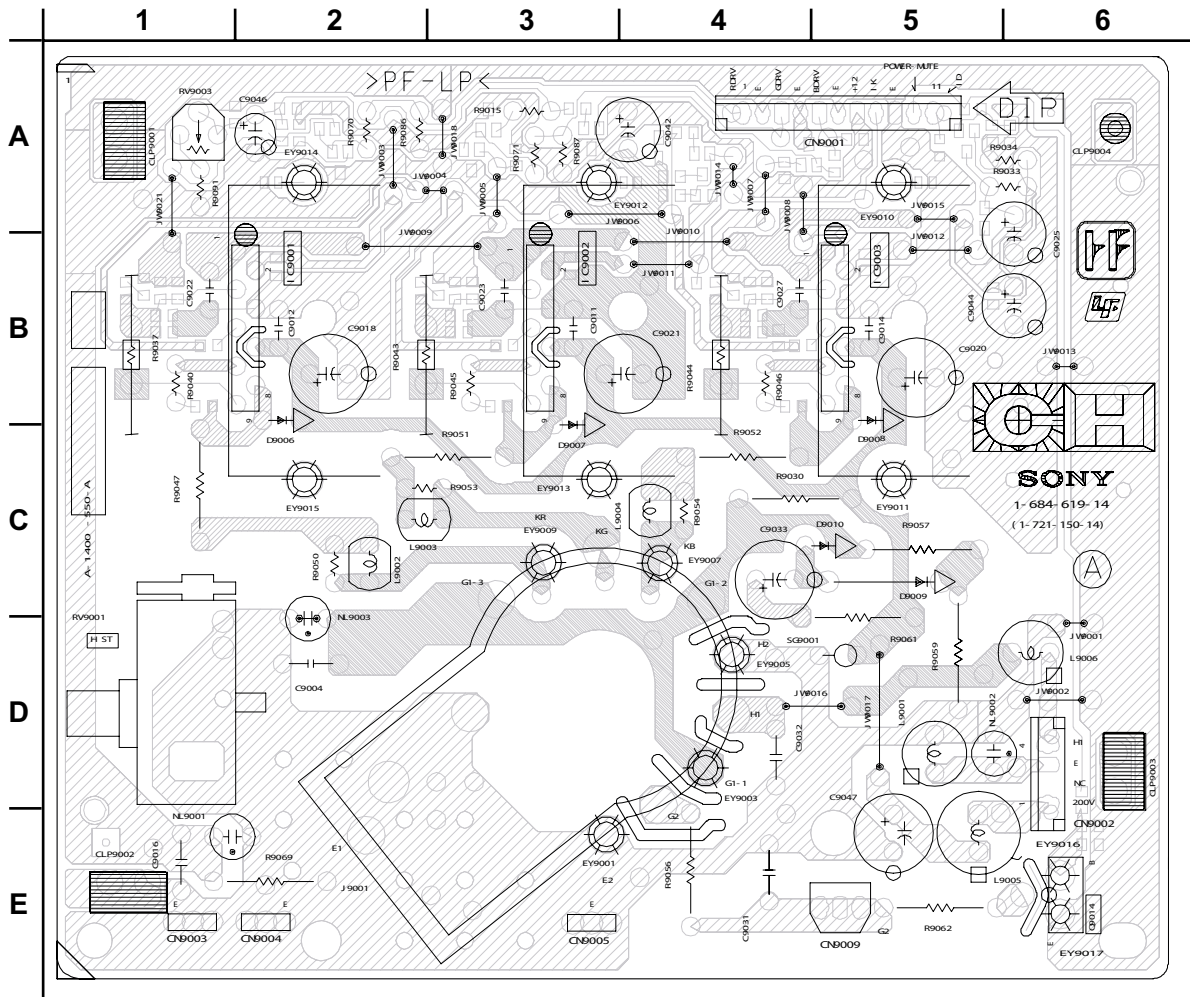
CH BOARD WAVEFORMS



CH R. G. B. DRIVE
CRT DRIVE

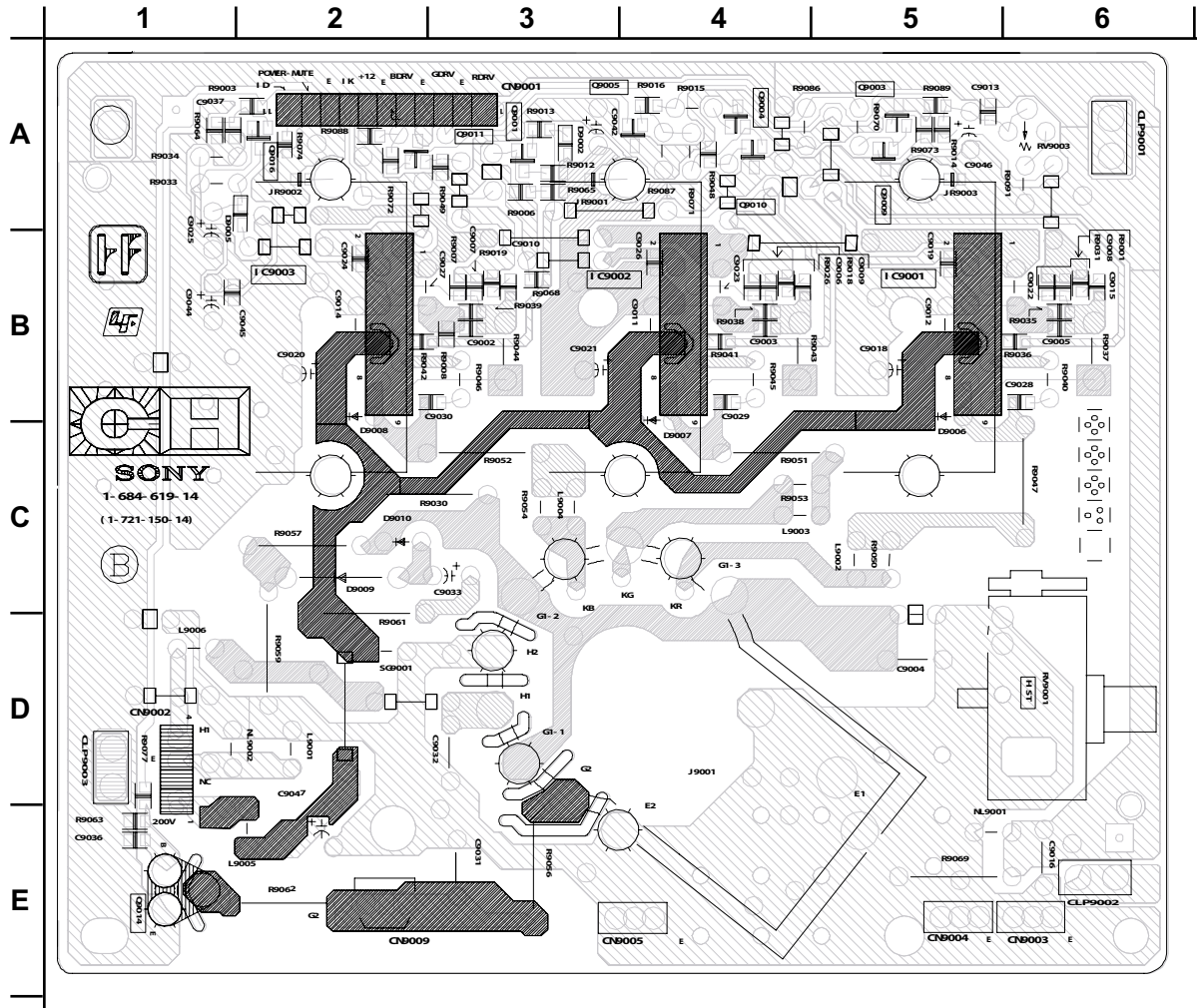


[R.G.B. DRIVE, CRT DRIVE]
COMPONENT SIDE

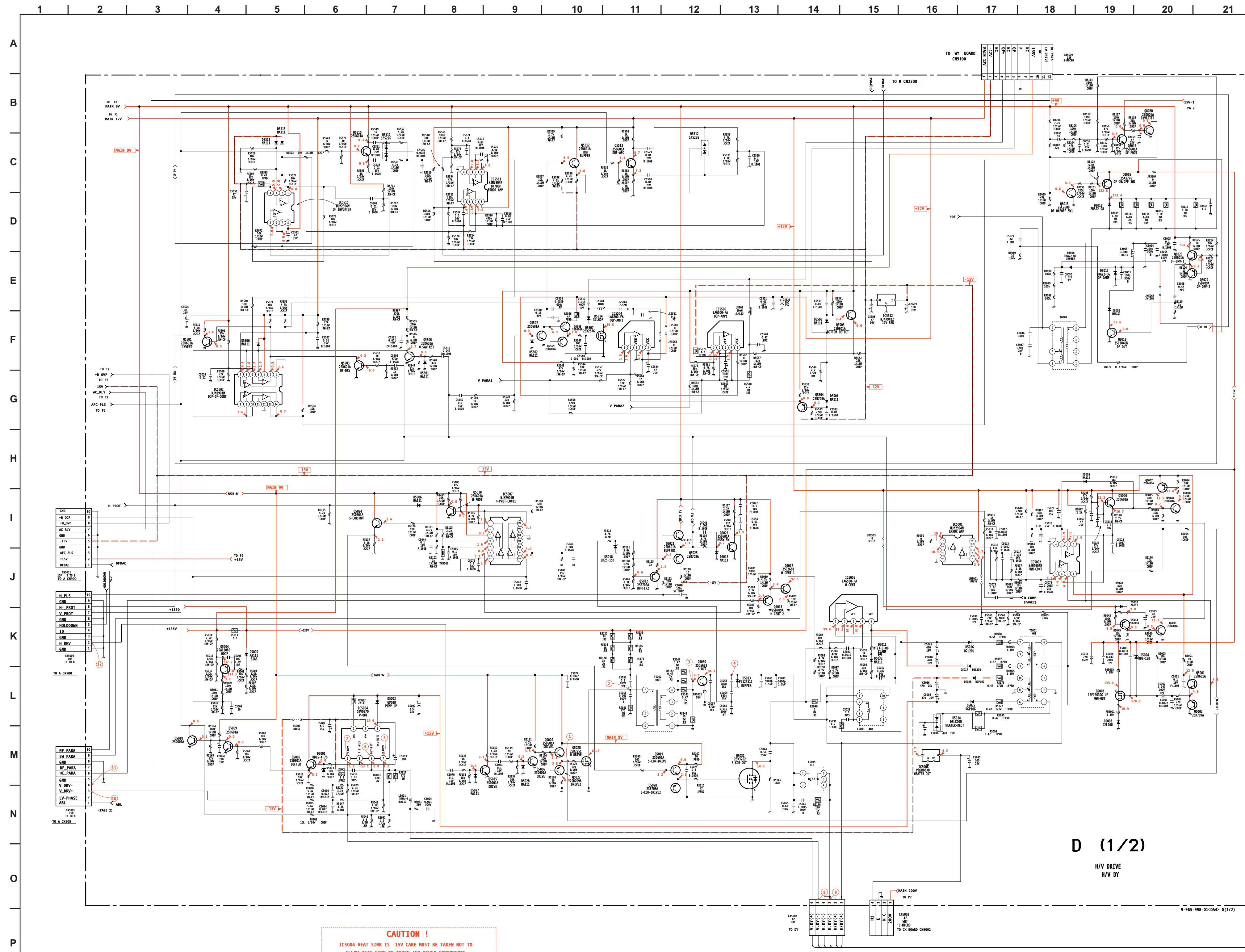




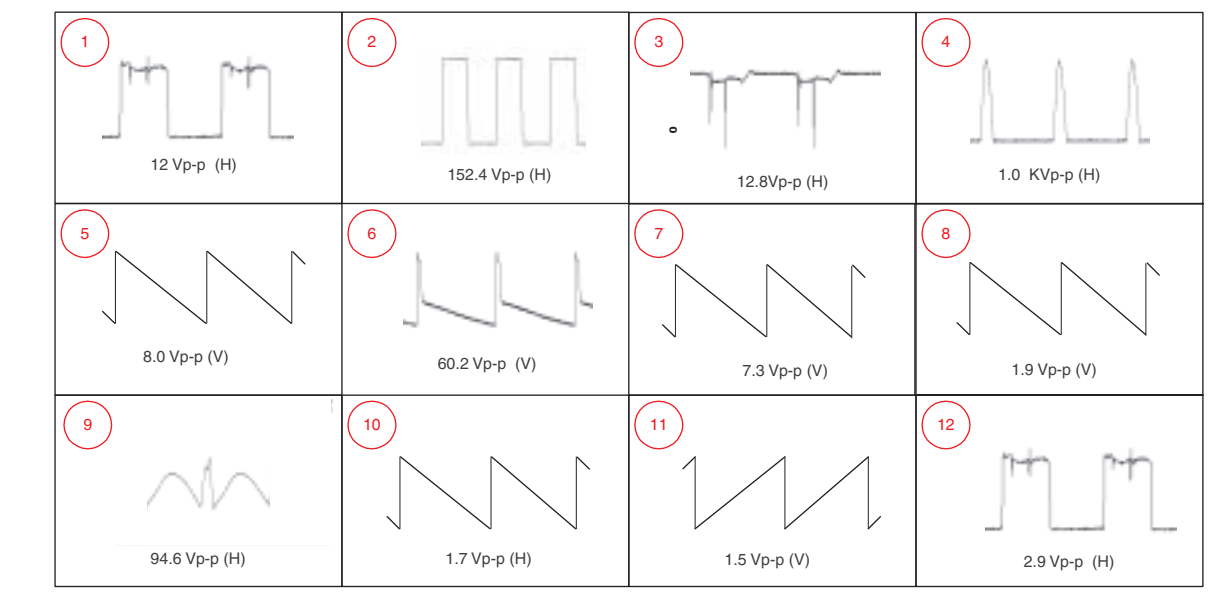
[R.G.B. DRIVE, CRT DRIVE]
CONDUCTOR SIDE



D BOARD SCHEMATIC DIAGRAM (1 OF 2)



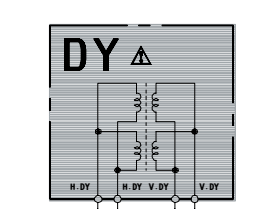
D BOARD WAVEFORMS



D (1/2)

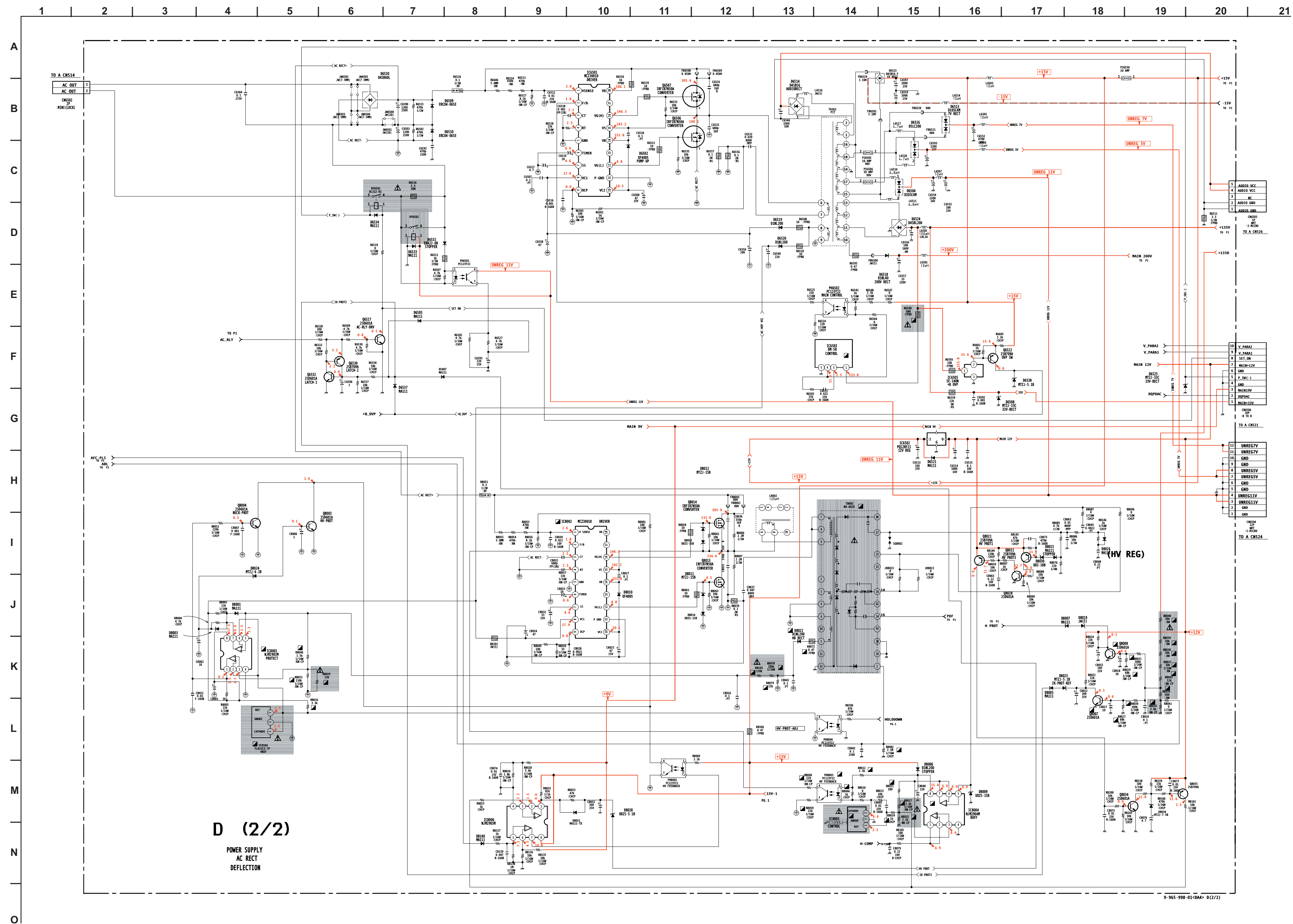
H/V DRIVE

H/V DY



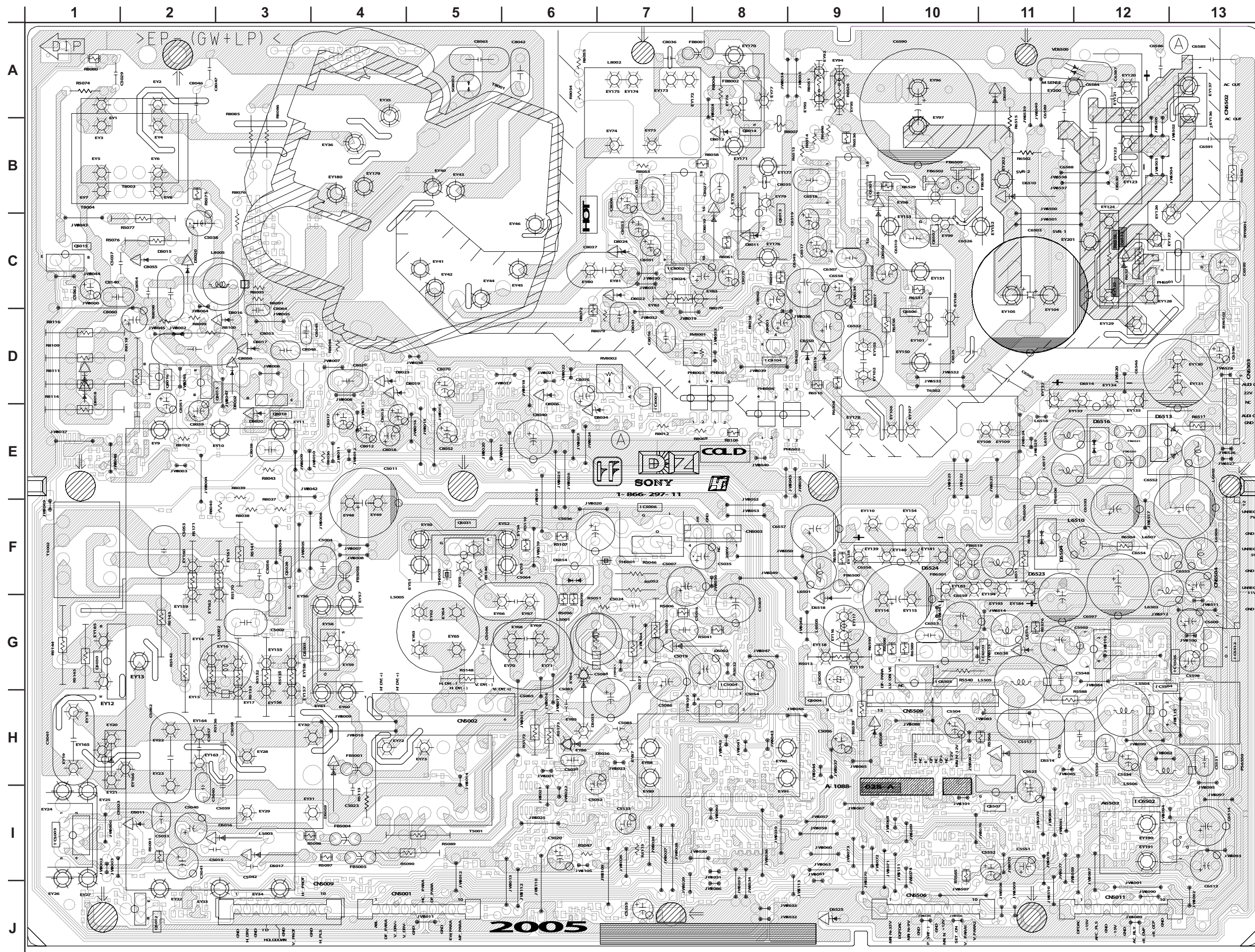
9-965-998-01-00A D (1/2)

D BOARD SCHEMATIC DIAGRAM (2 OF 2)



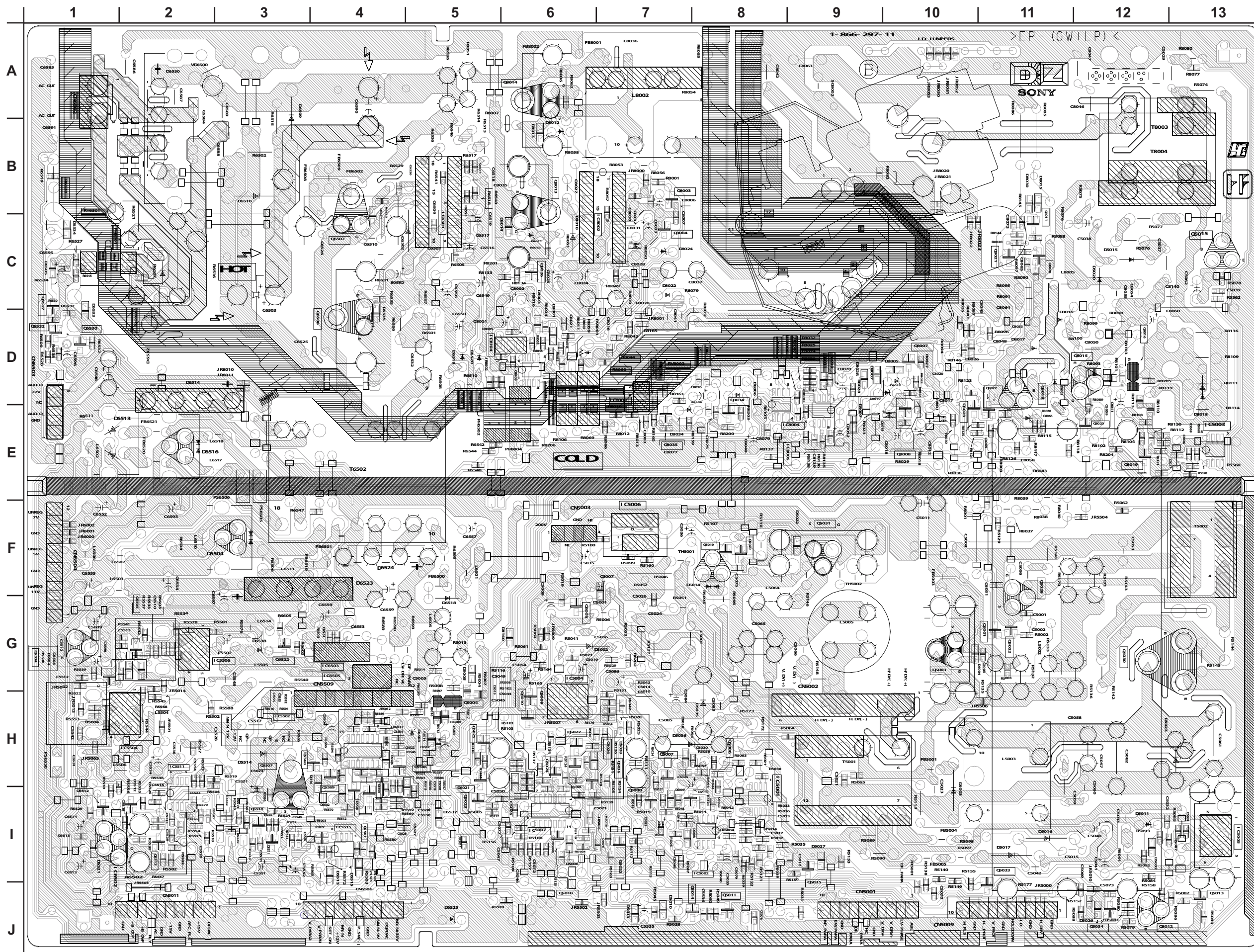


[HV DRIVE, HV DY, POWER SUPPLY, AC RECT, DEFLECTION]
COMPONENT SIDE

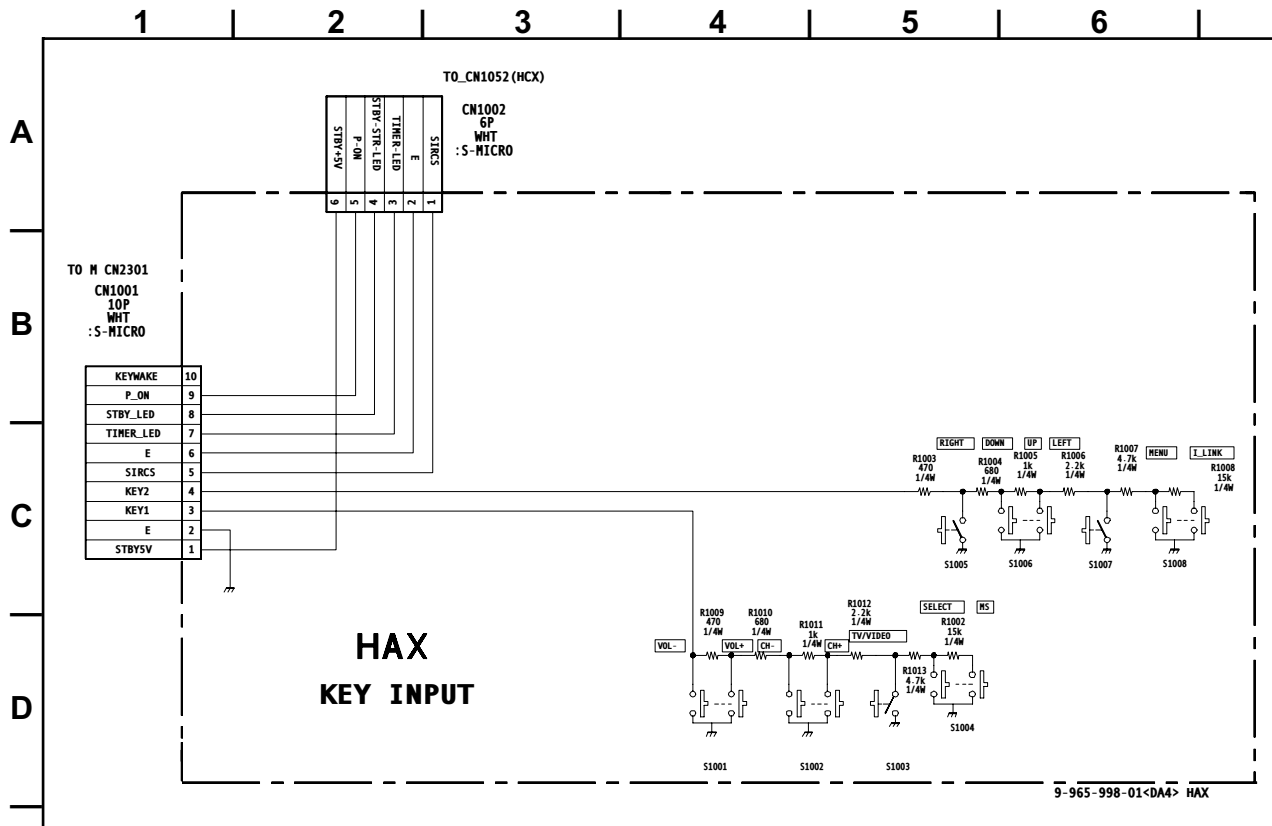




[HV DRIVE, HV DY, POWER SUPPLY, AC RECT, DEFLECTION]
CONDUCTOR SIDE



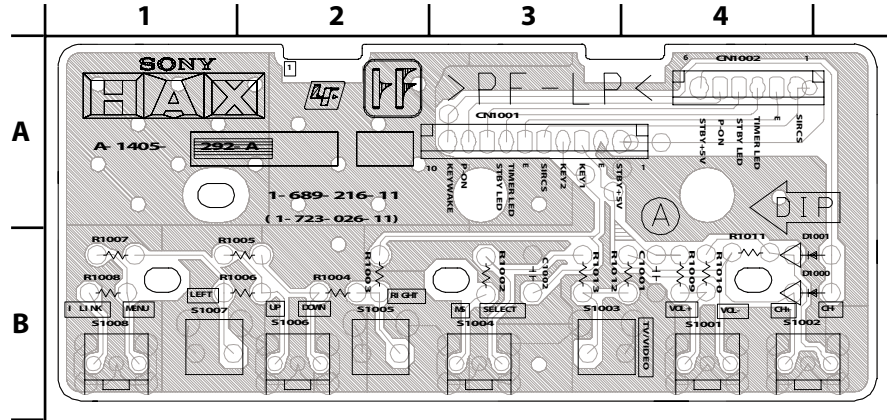
HAX BOARD SCHEMATIC DIAGRAM



HAX

[KEY INPUT]

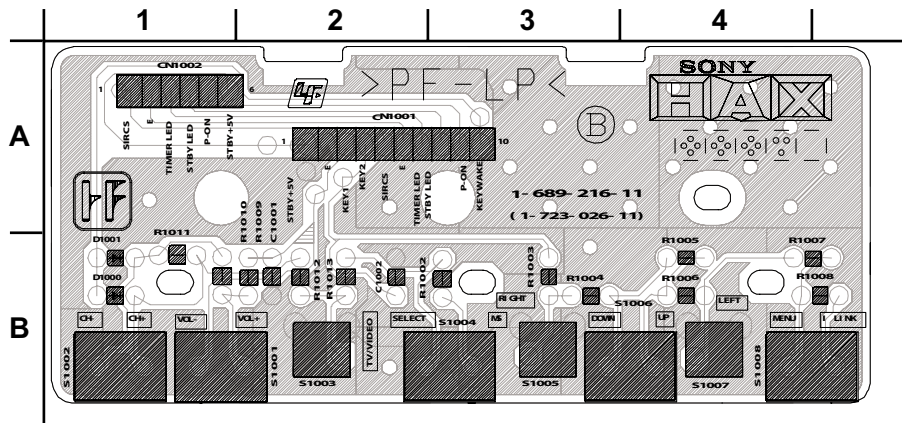
COMPONENT SIDE



HAX

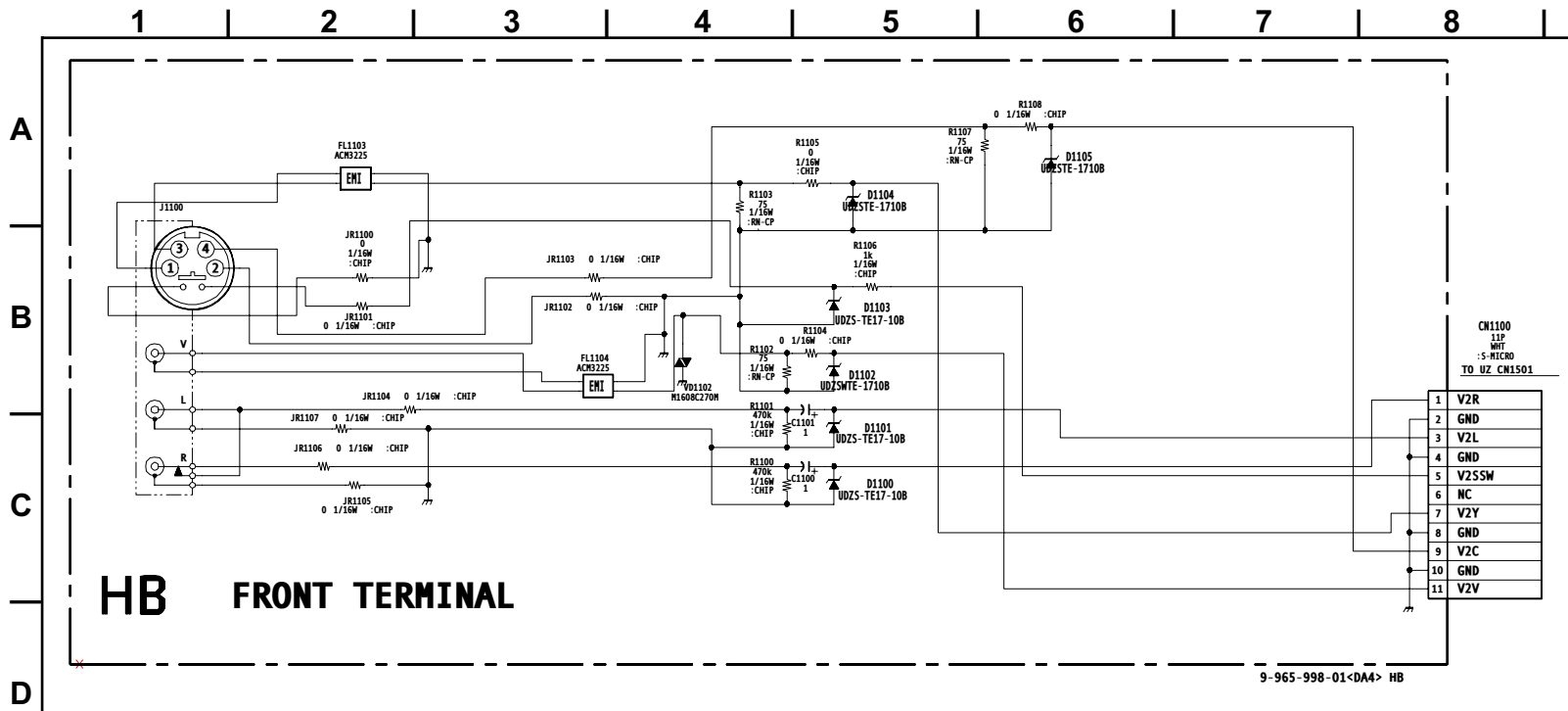
[KEY INPUT]

CONDUCTOR SIDE

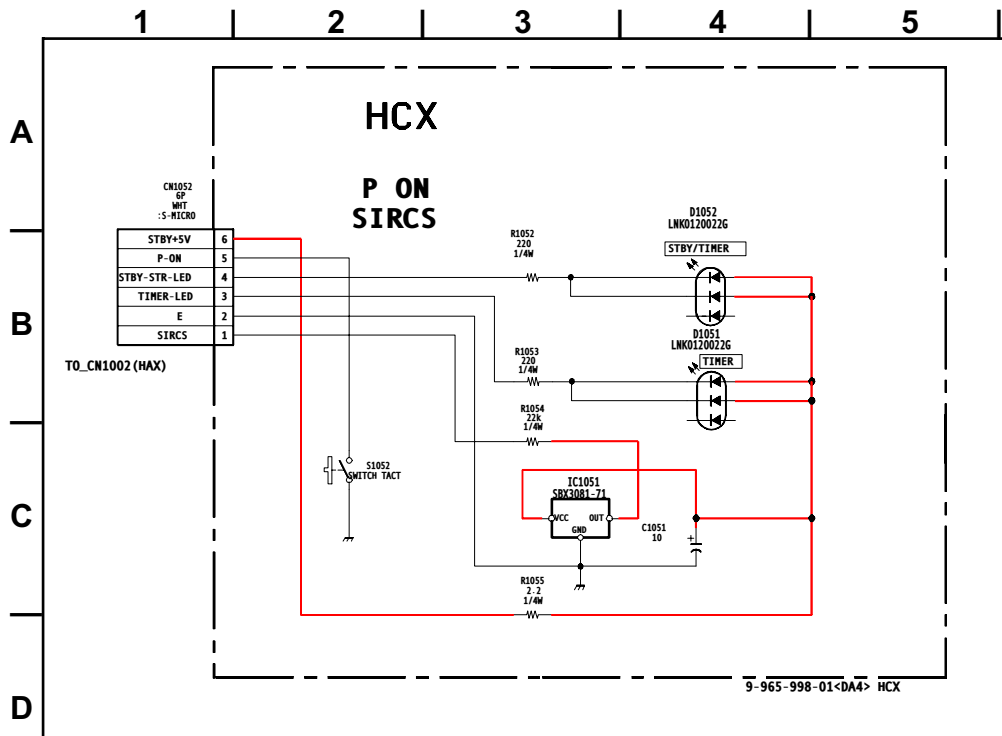


HB BOARD SCHEMATIC DIAGRAM

NOTE: THE HB BOARD PWB IS COMBINED WITH THE M BOARD PWB



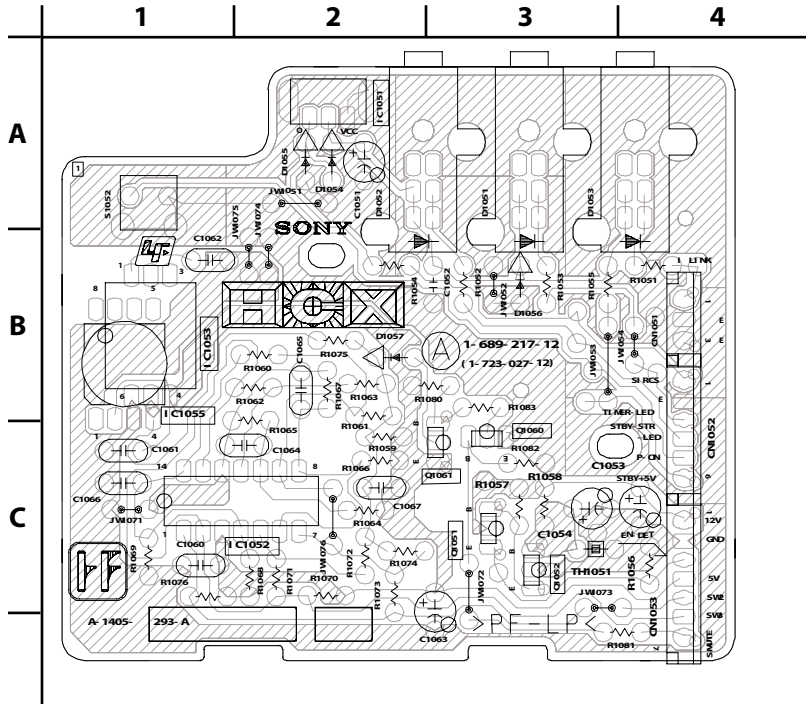
HCX BOARD SCHEMATIC DIAGRAM



HGX

[P ON SIRCS]

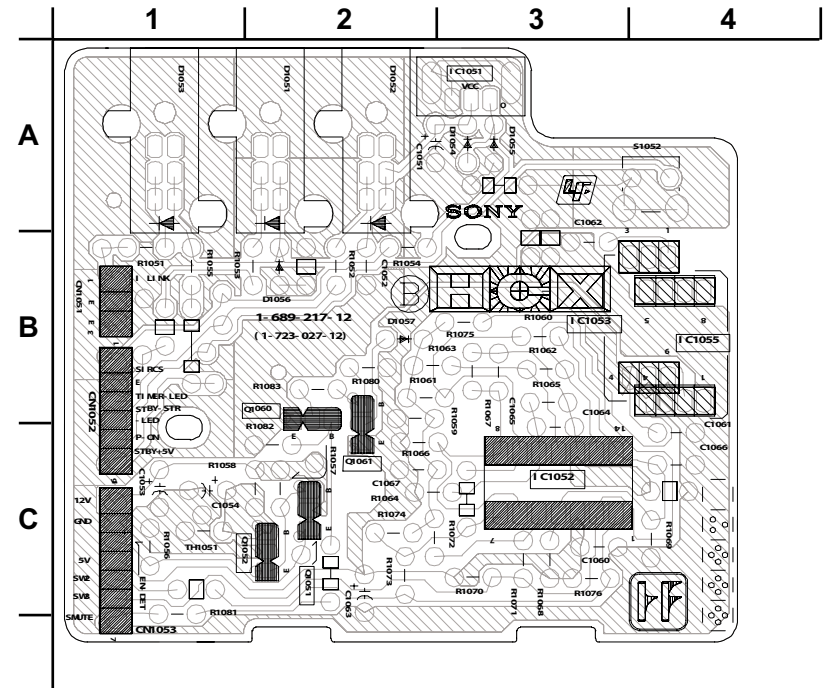
COMPONENT SIDE



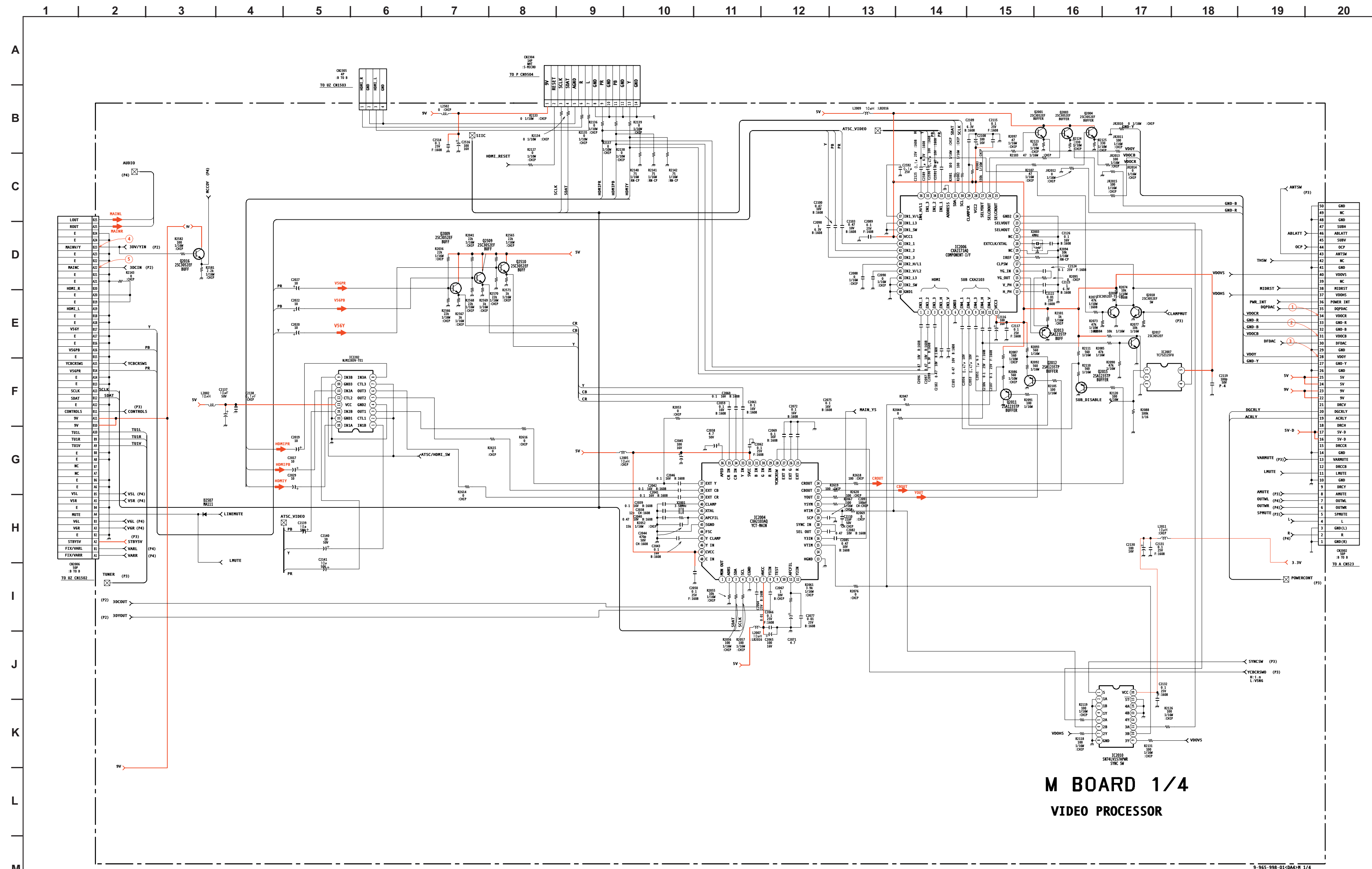
HGX

[P ON SIRCS]

CONDUCTOR SIDE

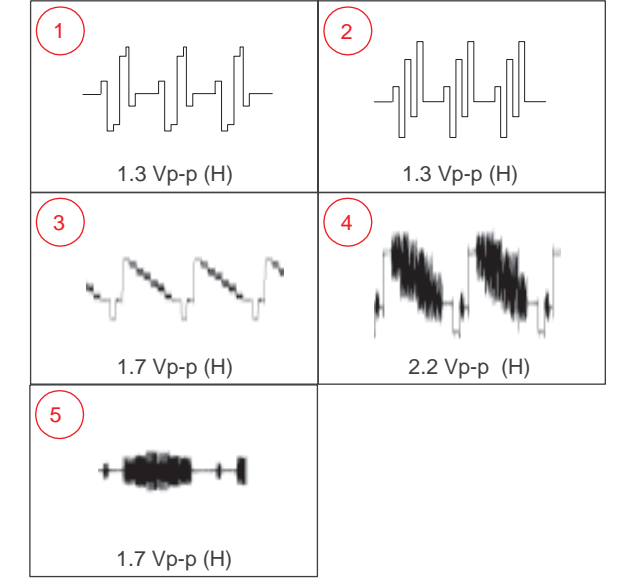


Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



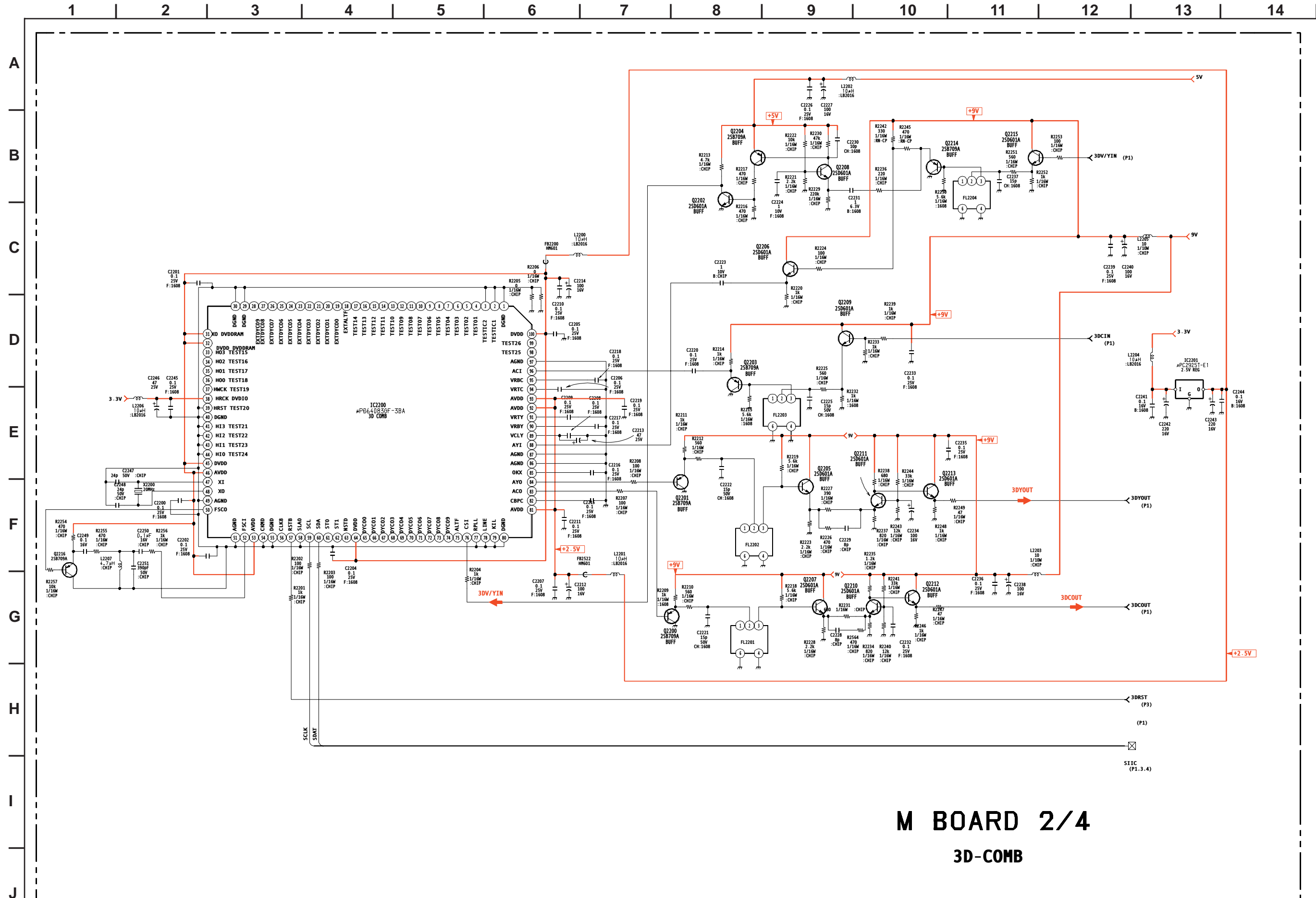
M BOARD 1/4
VIDEO PROCESSOR

M BOARD WAVEFORMS



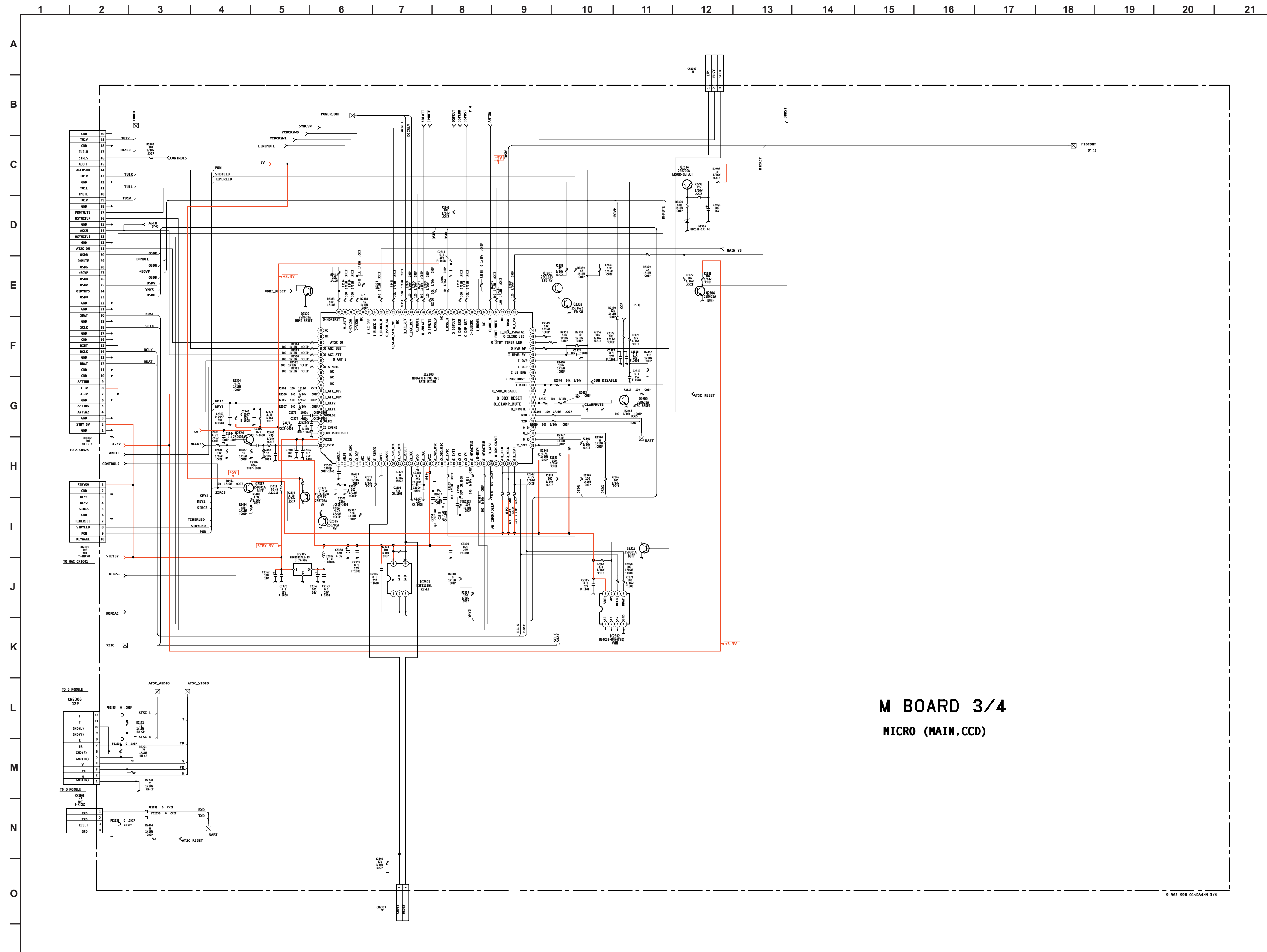
M BOARD SCHEMATIC DIAGRAM (2 OF 4)

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



M BOARD 2/4
3D-COMB

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

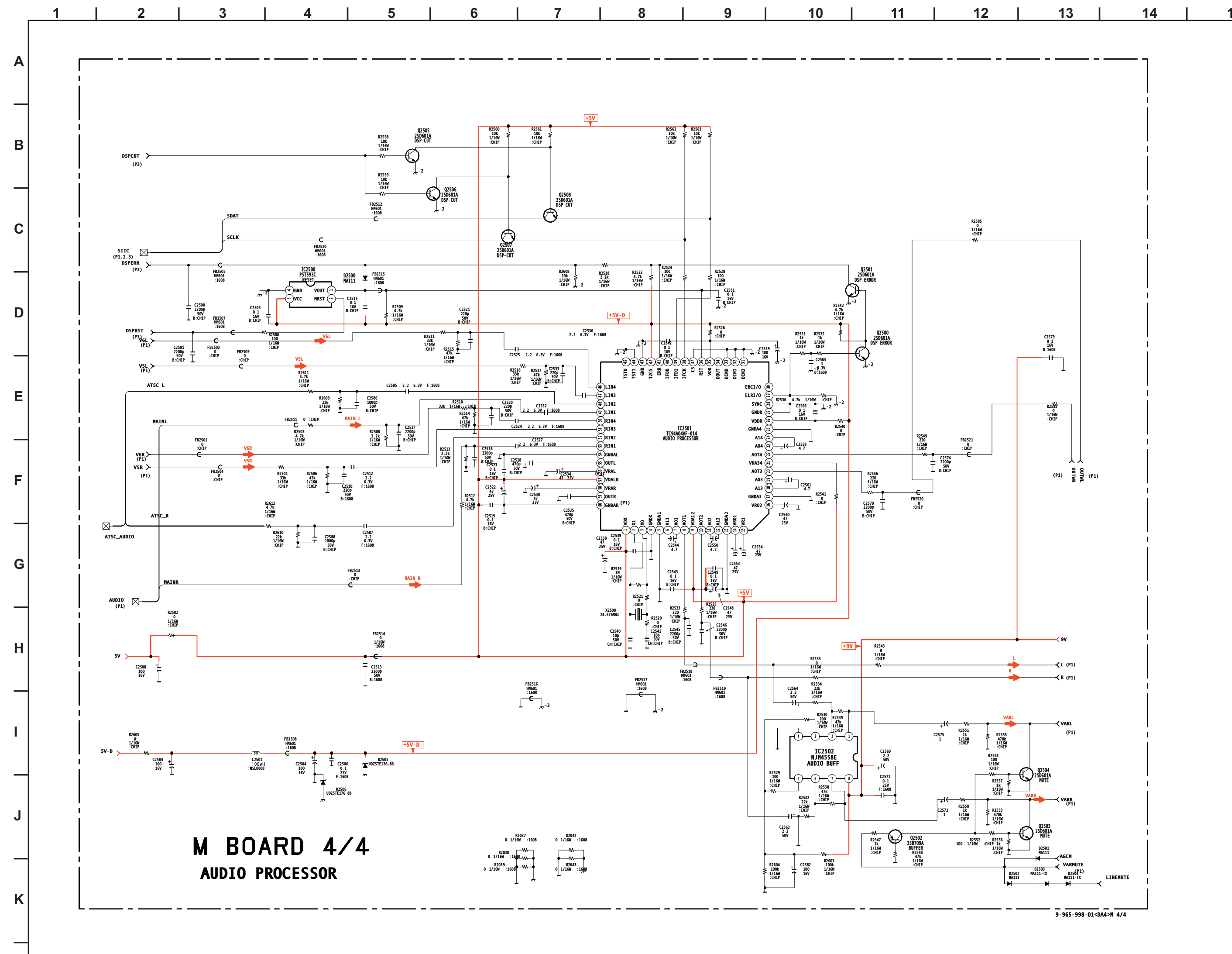


M BOARD 3/4
MICRO (MAIN.CCD)

9-965-998-01-004-R 3/4

M BOARD SCHEMATIC DIAGRAM (4 OF 4)

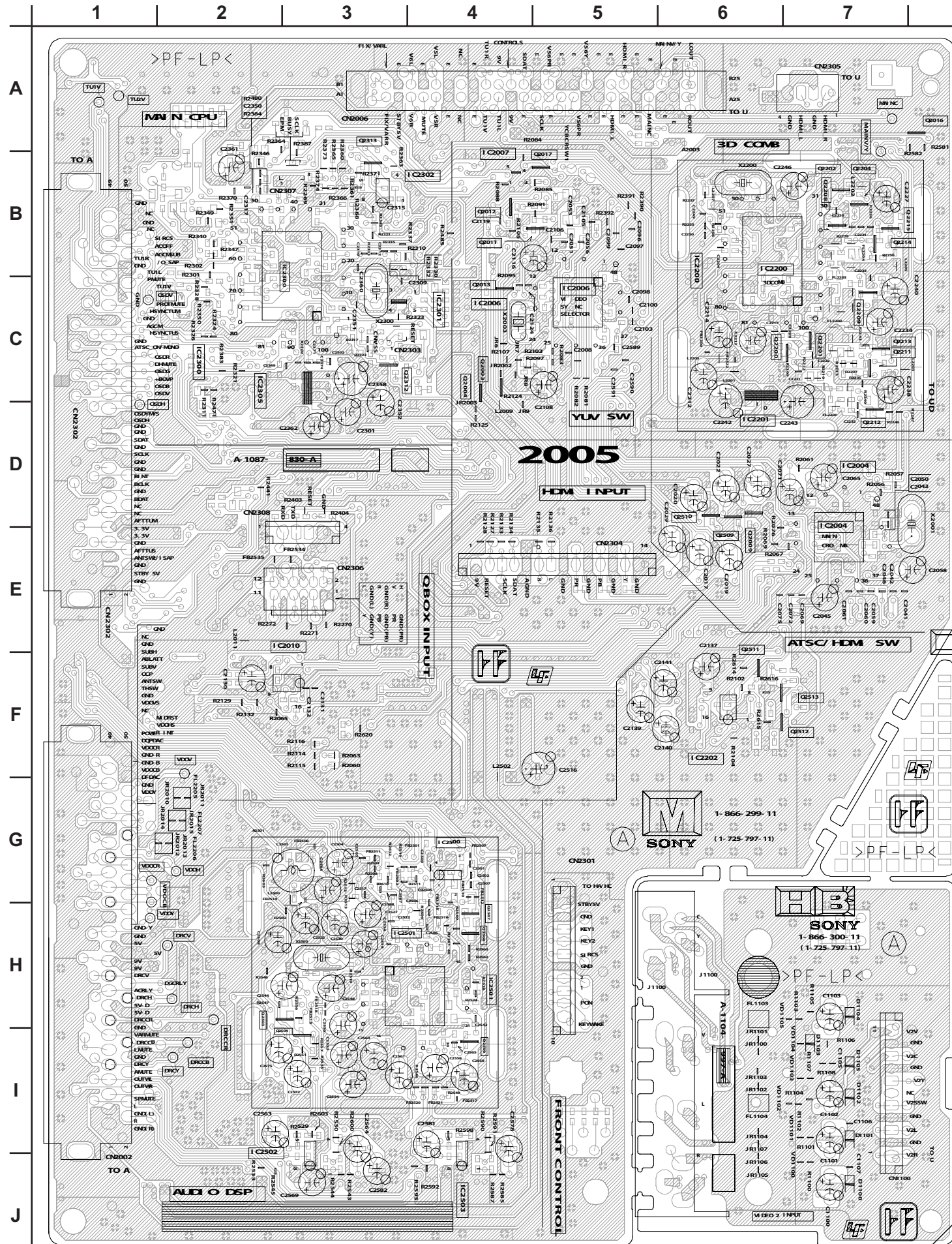
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]

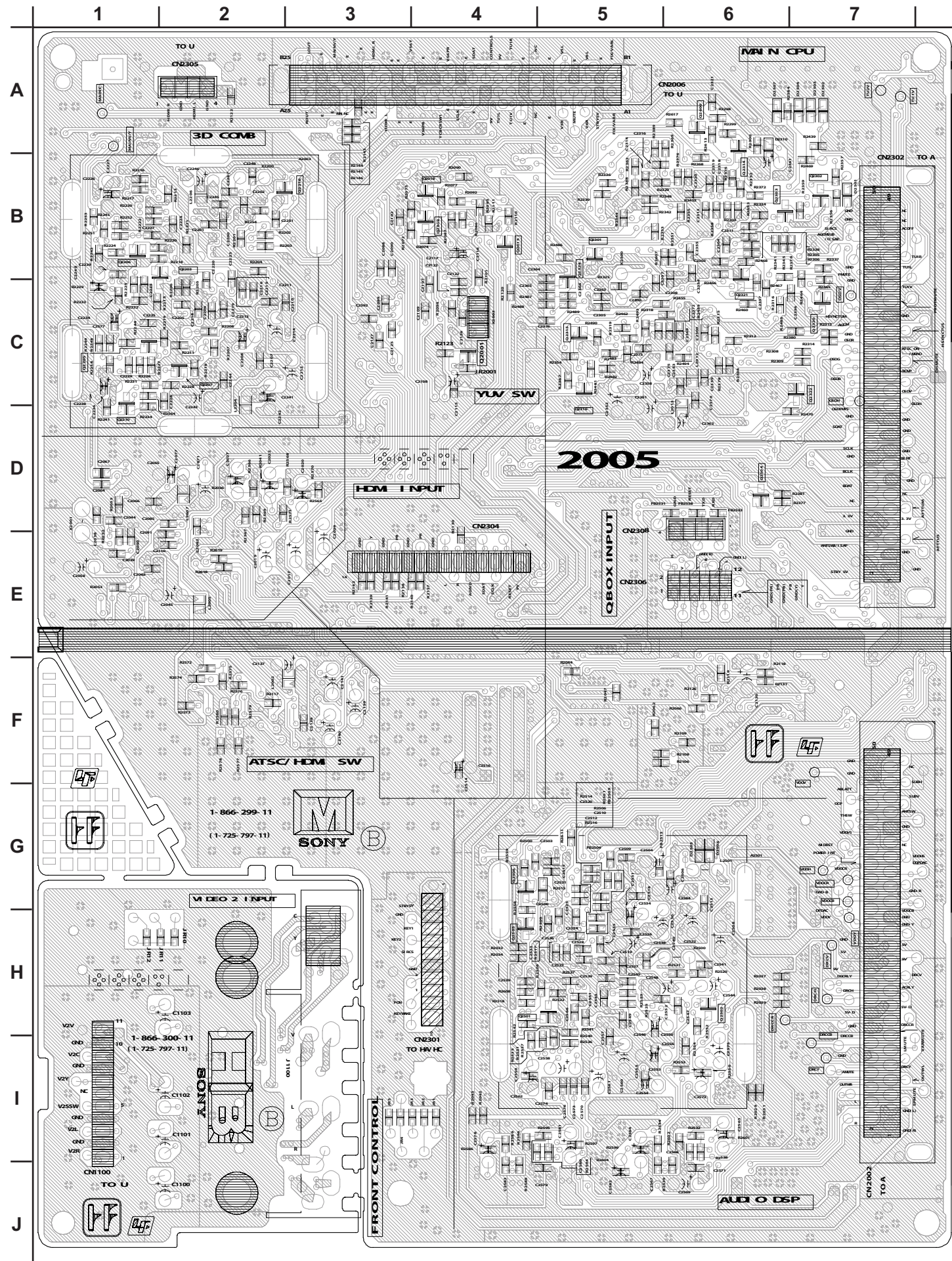
COMPONENT SIDE

HB [FRONT TERMINAL]
COMPONENT SIDE

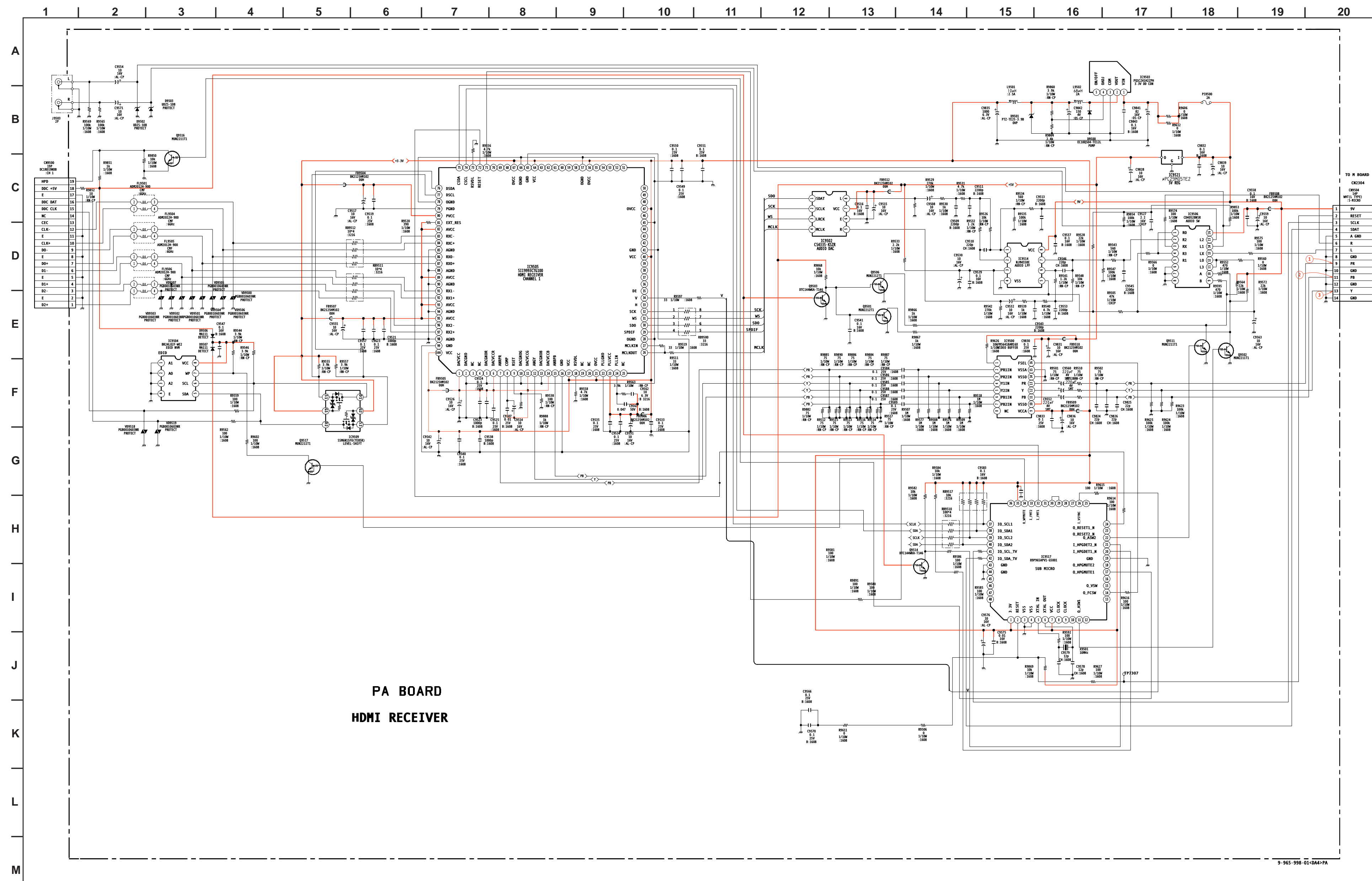


M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]
CONDUCTOR SIDE

HB [FRONT TERMINAL]
CONDUCTOR SIDE



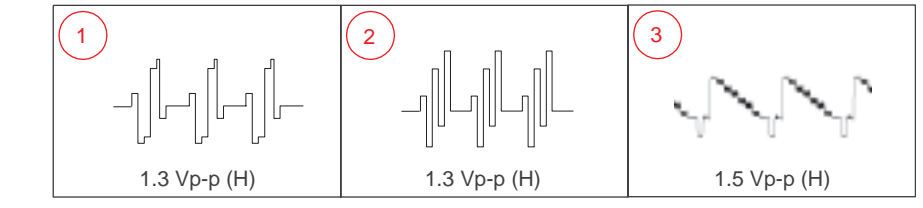
PA BOARD SCHEMATIC DIAGRAM Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



PA BOARD
HDMI RECEIVER

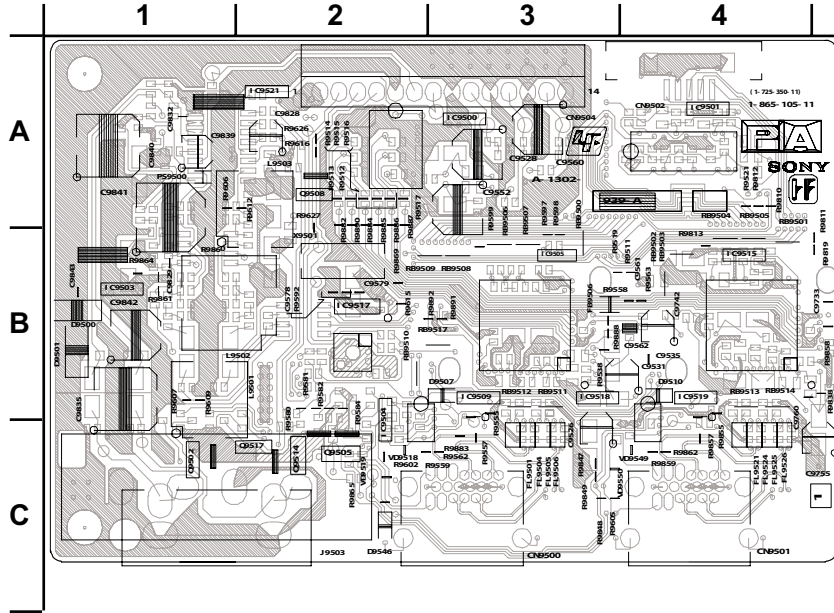
9-965-998-01-0446-PA

PA BOARD WAVEFORMS

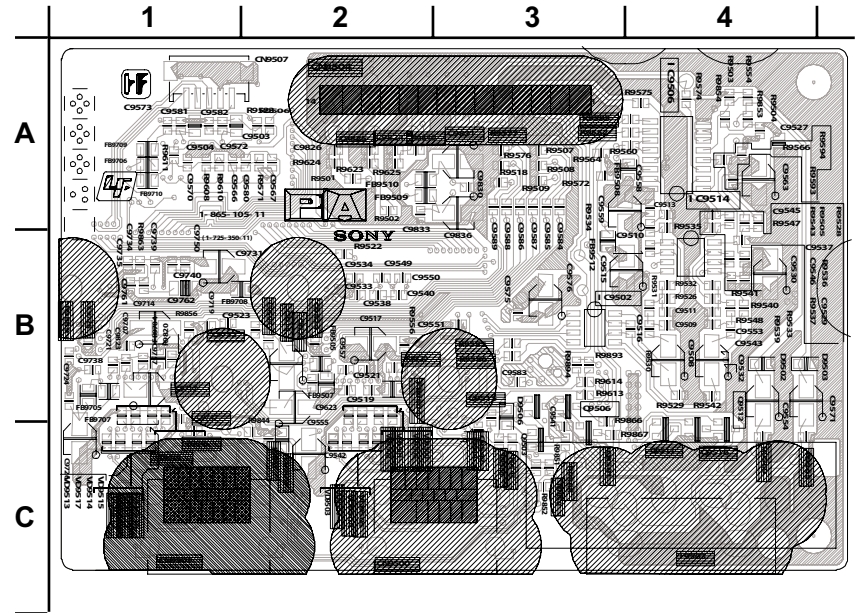




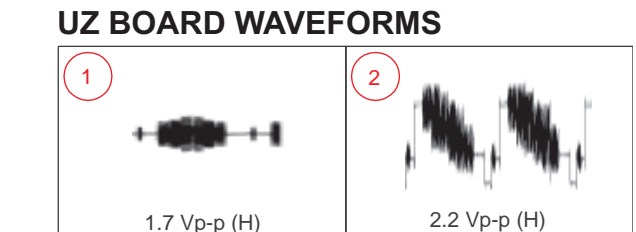
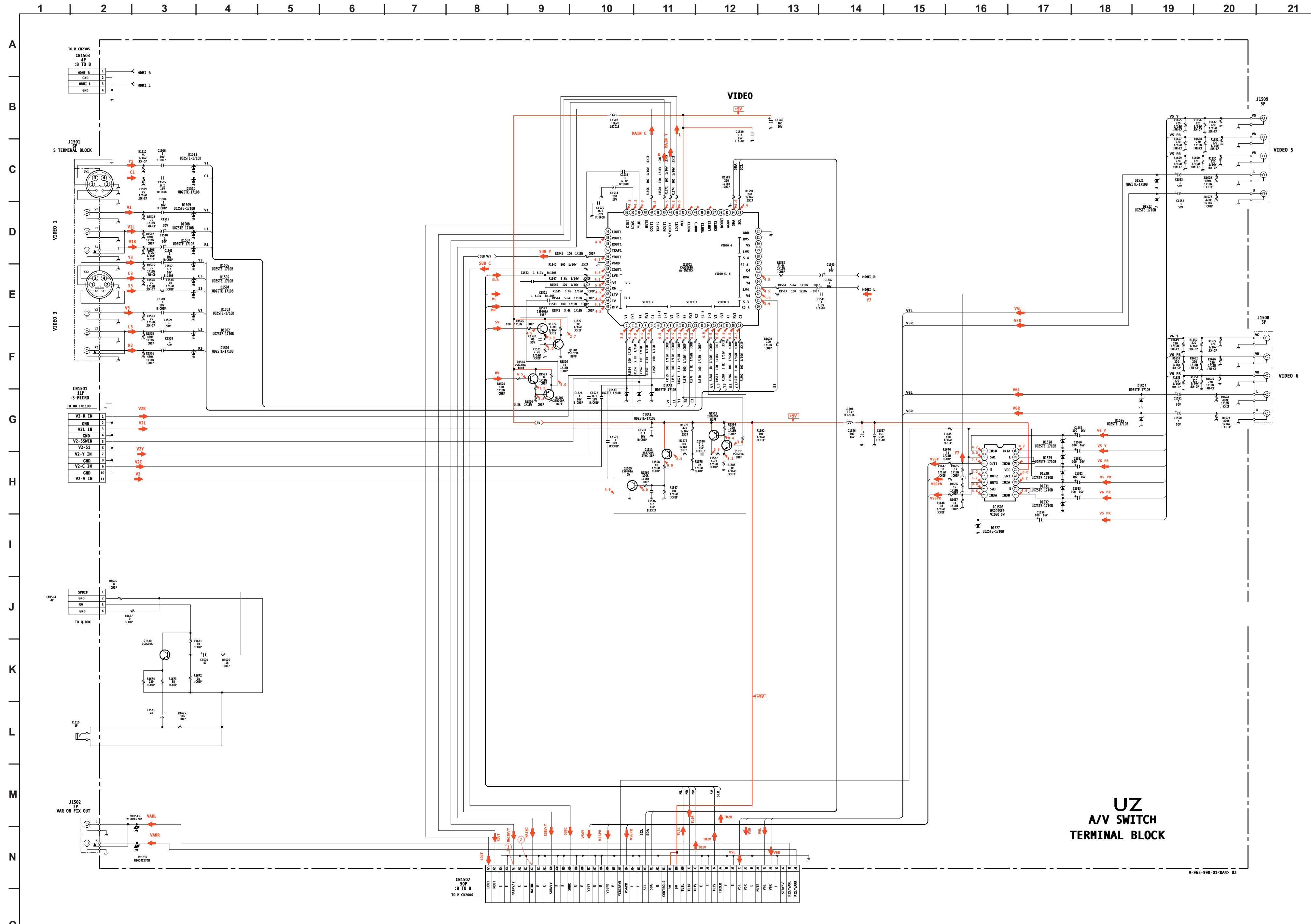
COMPONENT SIDE



CONDUCTOR SIDE



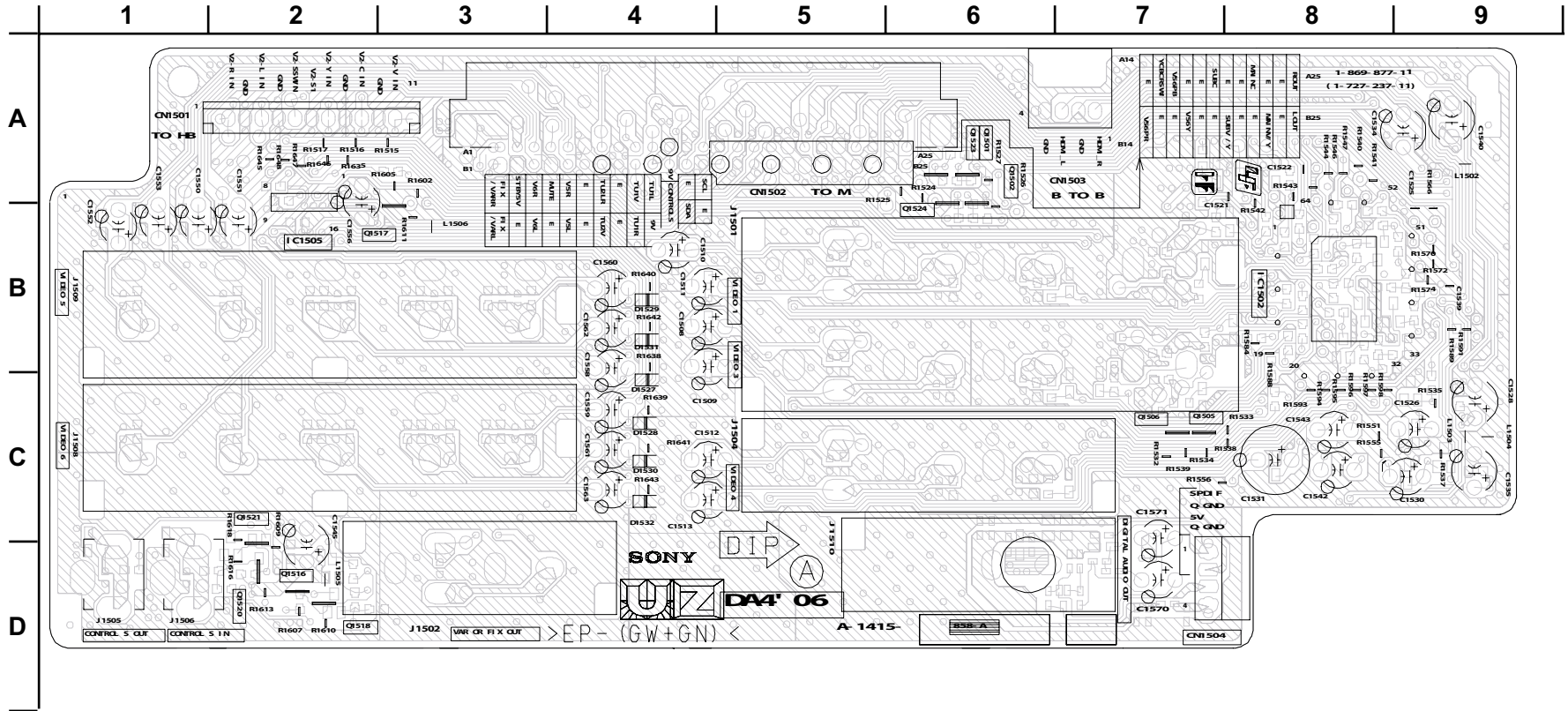
UZ BOARD SCHEMATIC DIAGRAM





[AV SWITCH, TERMINAL BLOCK]

COMPONENT SIDE



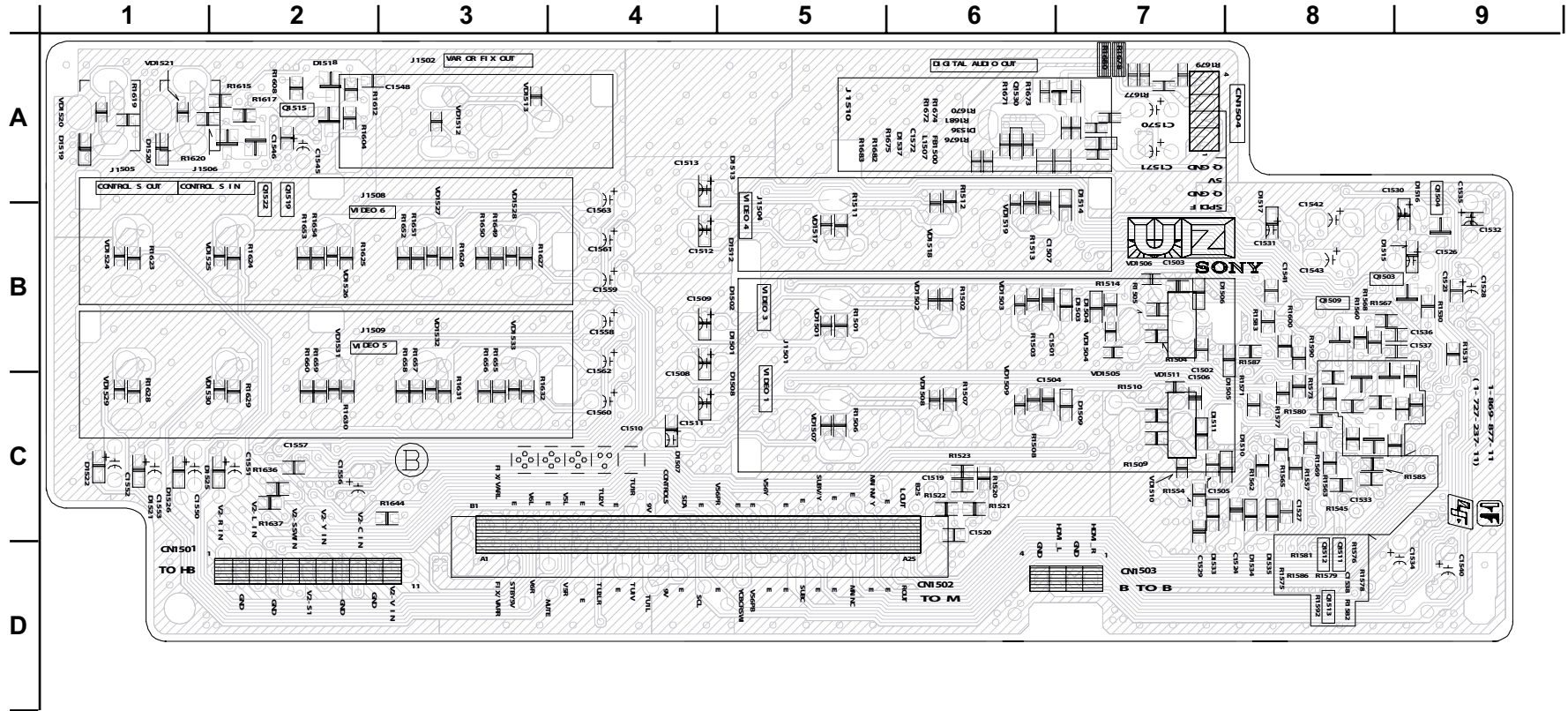
UZ BOARD LOCATOR LIST

DIODE	TRANSISTOR
IC	



[AV SWITCH, TERMINAL BLOCK]

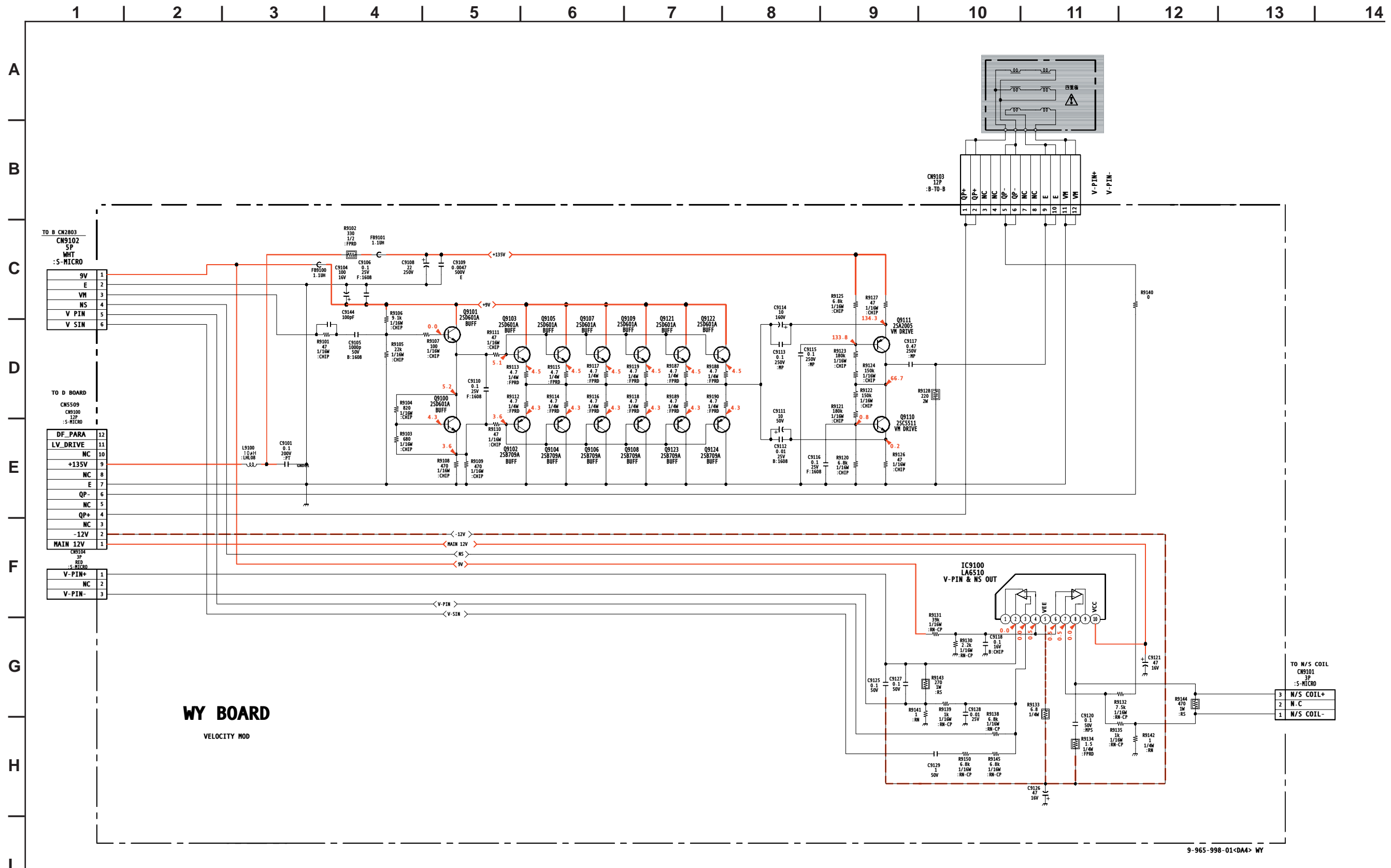
CONDUCTOR SIDE



UZ BOARD LOCATOR LIST

DIODE	DIODE	DIODE
		TRANSISTOR

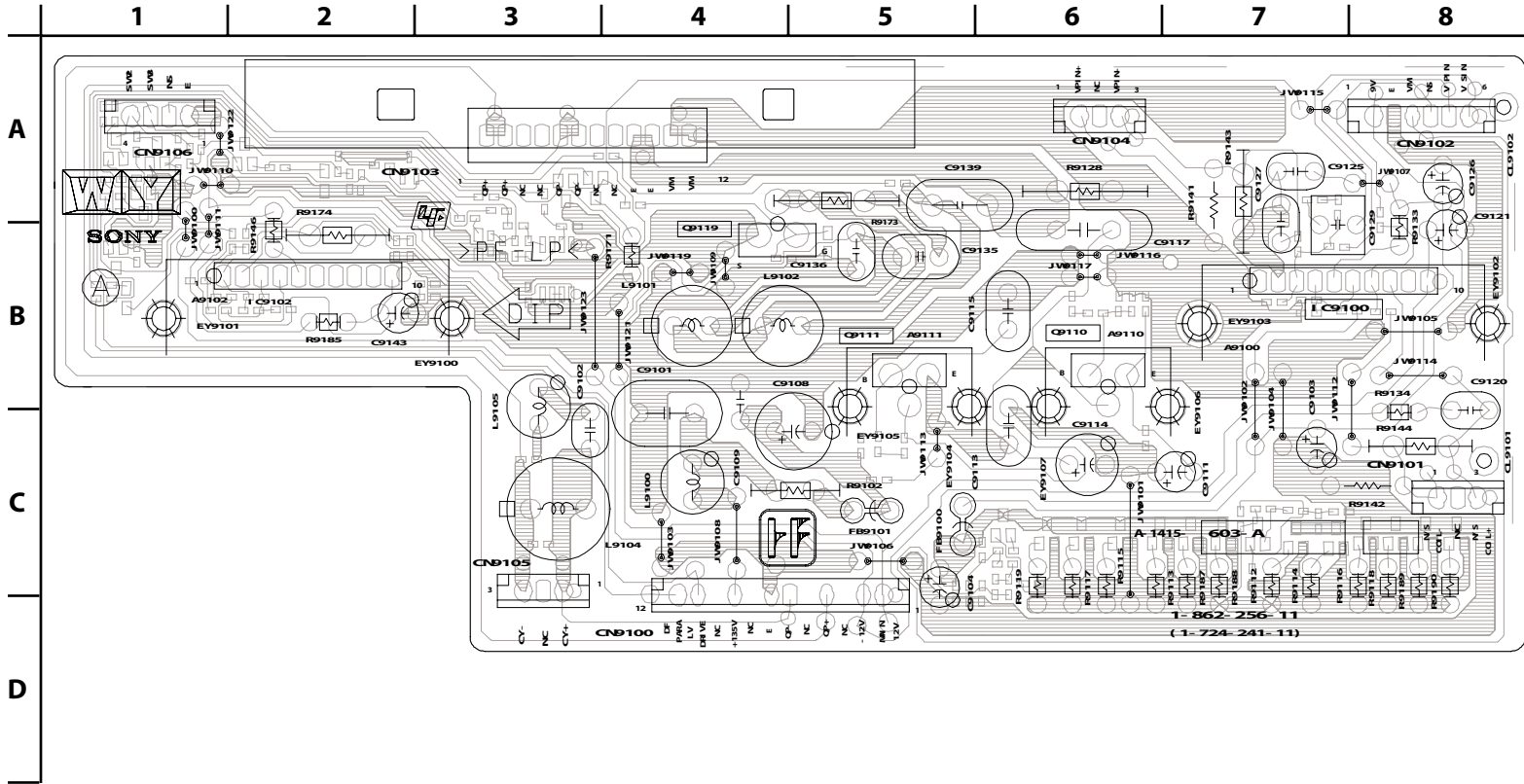
WY BOARD SCHEMATIC DIAGRAM





[VELOCITY MOD]

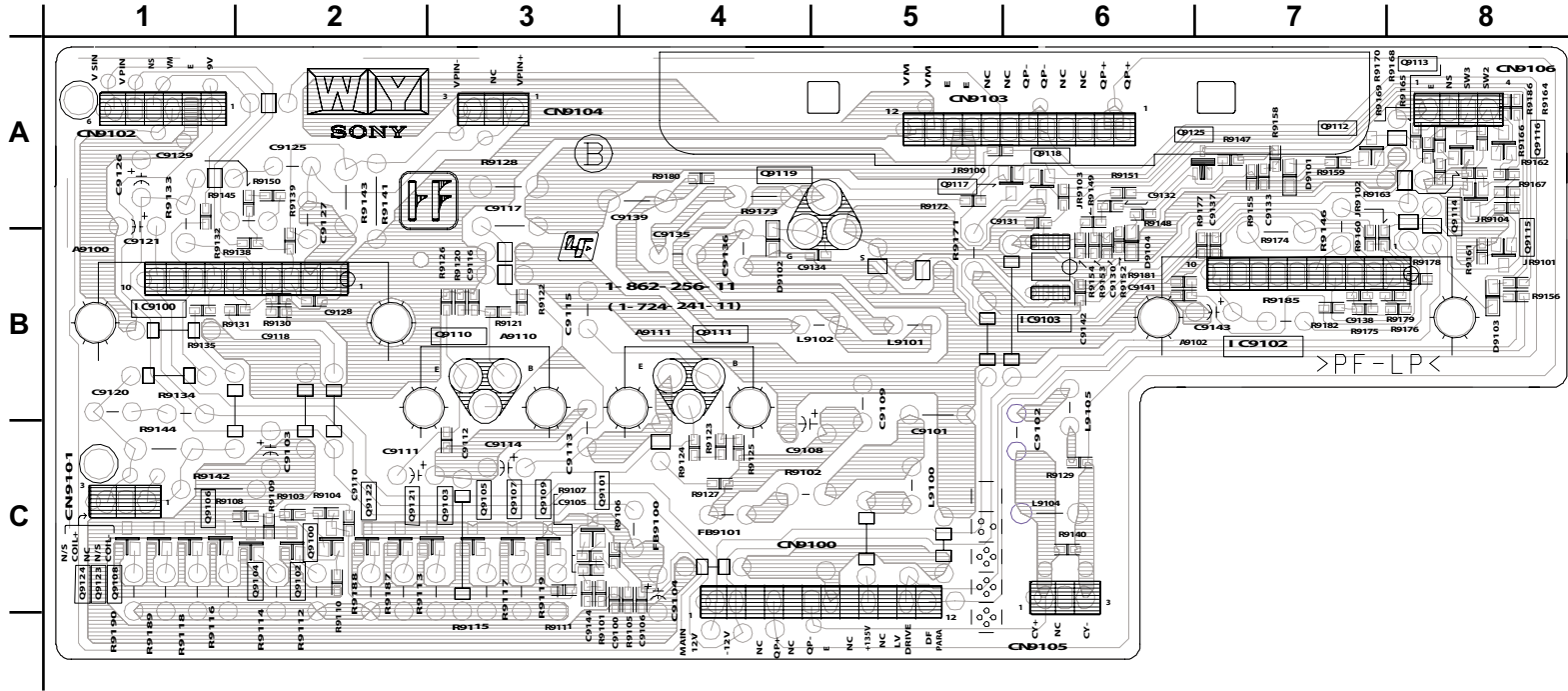
COMPONENT SIDE



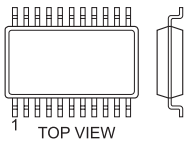


[VELOCITY MOD]

CONDUCTOR SIDE

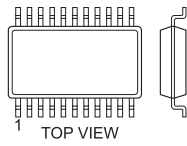


5-5.SEMICONDUCTORS (1 OF 2)



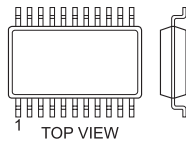
14pin

M52055FP
TLC2932IPW
TLC2933IPWR-12



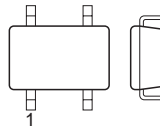
16pin

CXD2085M-T4
SN74LV4053ANSR



32pin

BH3868AFS-E2



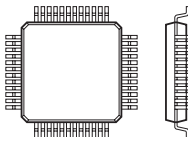
5pin

PST9120NL
PST9145NL
TC7SET08FU(TE85L)



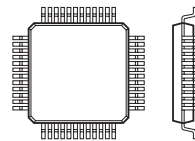
22pin

CXA2026AS



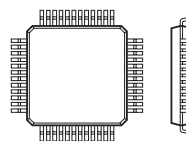
32pin

CXD2073Q-T4



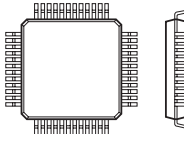
48pin

CXA2103Q
CXA2150Q



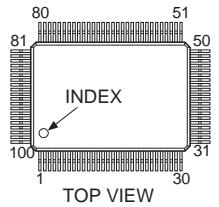
64pin

TLC5733AIPM

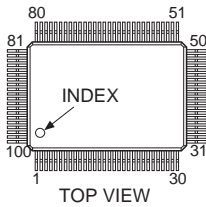


240pin

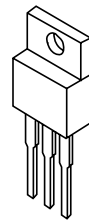
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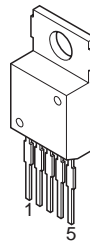
CXA2151Q



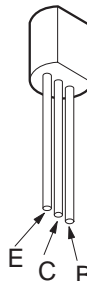
M306V2ME-153FP



NJM79M12FA



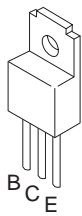
LA6500-FA



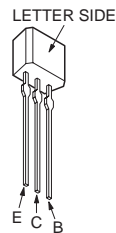
2SA1208S-TP
2SA10910-TPE



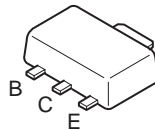
IRF614
IRFI644-G-LF36
IRFI9630GS



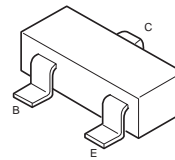
2SA2005
2SC5511



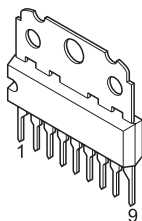
2SC3311A-QRSTA



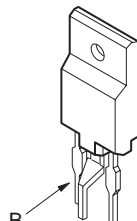
2SK2036(TE85L)



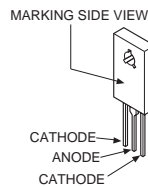
DTA114EKA-T146
DTC114TKA-T146
DTC144EKA-T146
2SA1226
2SD601A-QRS-TX
2SB709A-QRS-TX
2SC2412K-T-146-QR
2SD2114KT146



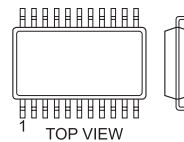
TDA6111Q/N4



2SC4632LS-CB7



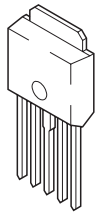
D5LC20U



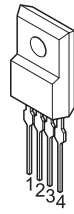
8pin

NJM2901M-TE2
NJM2903M-TE2
NJM2904M-TE2
NJM4558E(TE2)
TC7WU04FU(TE12R)

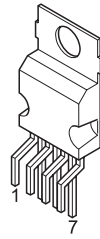
SEMICONDUCTORS (2 OF 2)



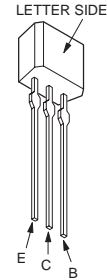
PQ07VZ012P



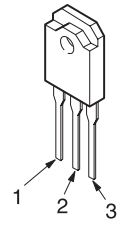
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PQ05RF21
PQ12RF21
PQ30RV21



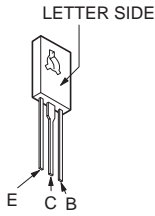
STV9379



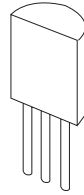
2SA1776TV2Q
2SA1309A-QRSTA



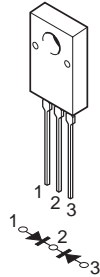
2SC3997S-SONY



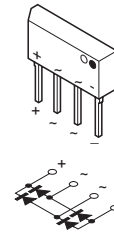
2SC2688-LK
2SC3840K



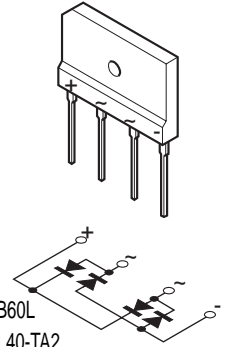
UPC1093J



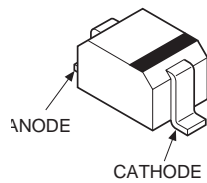
D5SC4M
D8LC40F



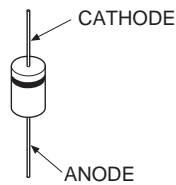
S1VB20



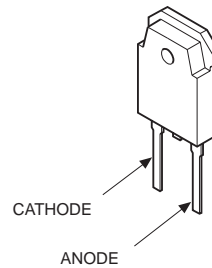
D6SB60L
D1NL40-TA2



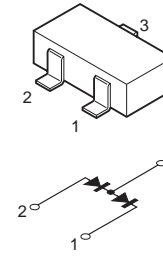
MA111-TX
MA113-TX
UDZSTE-1710B
UDZSTE-176.8B
UDZSTE-17-12



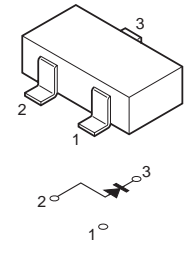
1SS133T-77
D1NL20U-TR
ERC91-02E



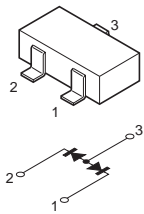
PG124S15



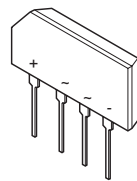
MA153-TX



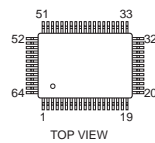
MA3091-TX



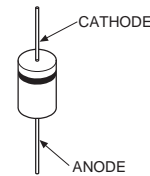
DAN202K-T-146



D4SBS6-F

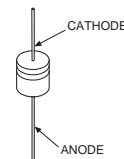


CXA2069Q
CXP85840A-039Q



D1NL20U-TA2
ERA22-08TP3
ERC04-06SE
GP08DPKG23
HSS83TD
HZU11B1TRF
RGP02-20EL-6394
MTZJ-77-22B

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



SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

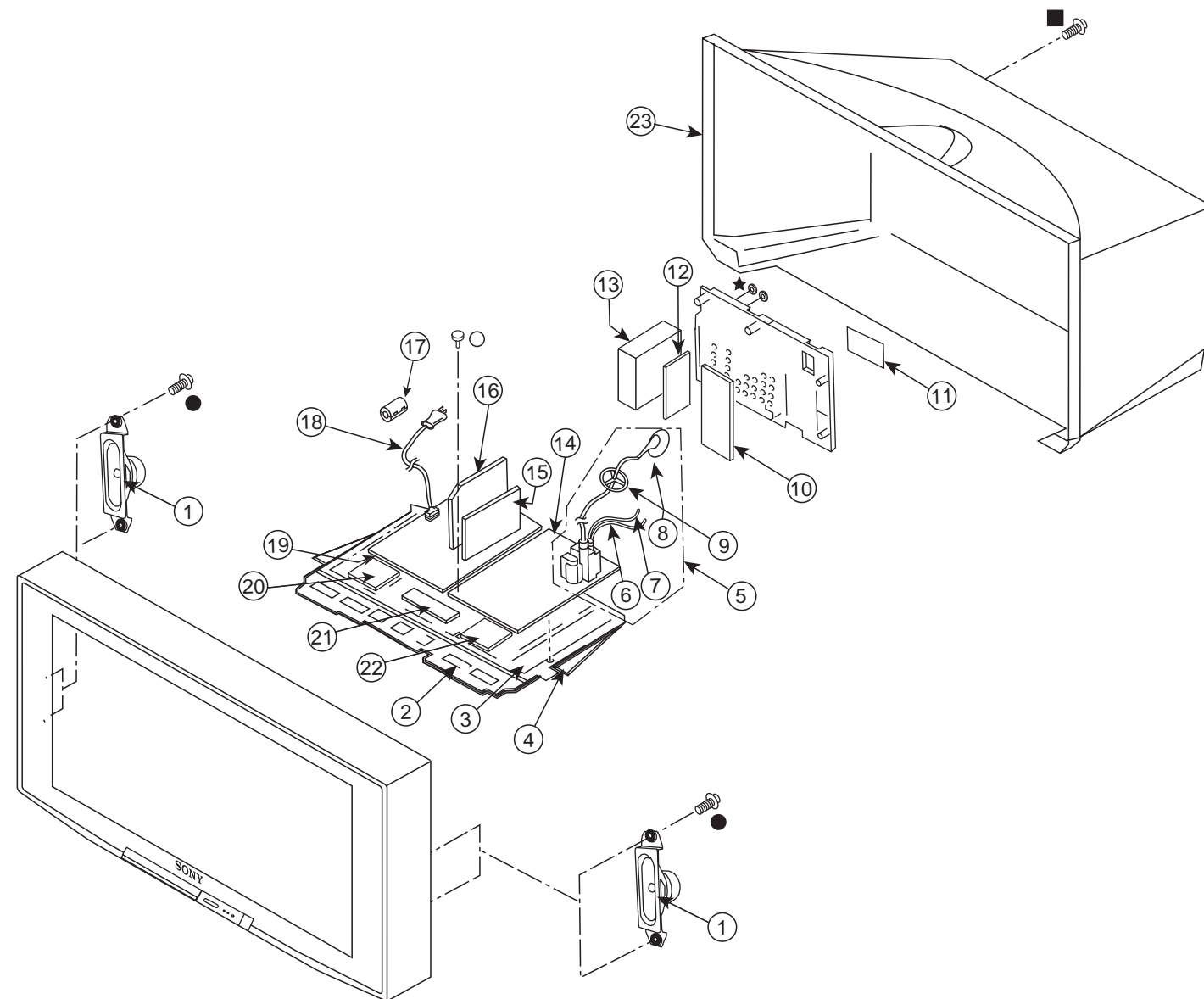
The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

* 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 \triangle mark are critical for safety. Replace only with part number specified.

6-1. CHASSIS

●	4-384-096-01	SCREW (4X16), TAPPING, +P
■	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3
★	3-682-691-00	NUT, WASHER HEXAGON
○	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)

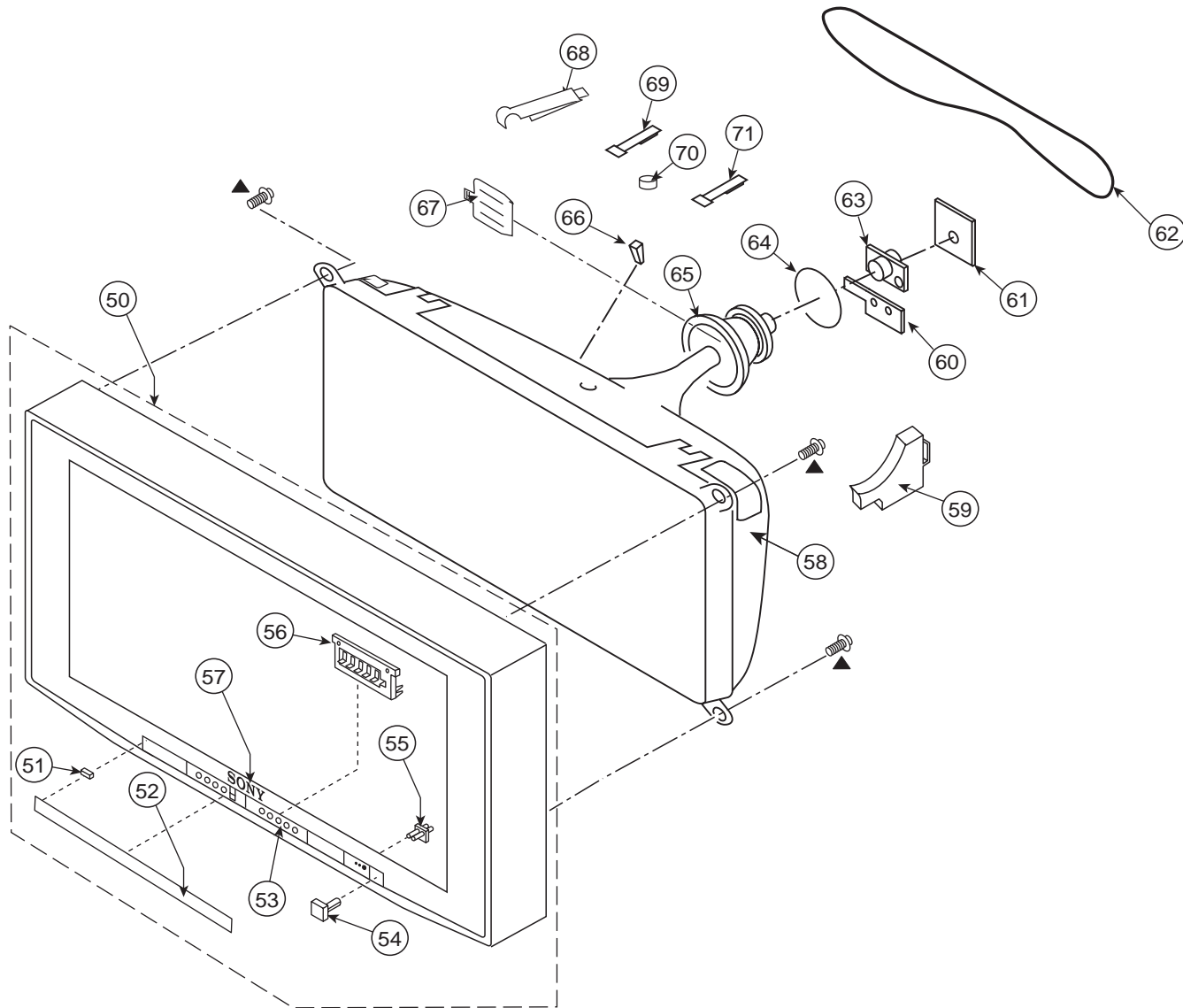


REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	
1	1-825-840-12	LOUDSPEAKER (6X13CM)		14	A-1172-628-A	D BOARD, COMPLETE	
*	2	4-102-134-11	BRACKET, H			The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately (See 6-8).	
*	3	4-095-271-21	BRACKET, MAIN	15	A-1087-818-A	B BOARD, COMPLETE	
*	4	4-102-133-21	BOARD, BOTTOM	16	A-1172-630-A	M BOARD, COMPLETE	
\triangle	5	1-453-464-11	FBT ASSY NX-6200//X4J4	[6-8]			
\triangle	6	1-900-808-42	WIRE ASSY, G2	17	1-500-586-11	FILTER, CLAMP (FERRITE CORE)	
\triangle	7	1-900-805-19	WIRE ASSY, FOCUS HV	\triangle 18	1-769-837-11	CORD, POWER(WITH NOISE FILTER)	
\triangle	8	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	19	A-1172-511-A	A BOARD, COMPLETE	
9	4-084-918-01	HOLDER, HV CABLE		20	A-1111-236-A	HB (VAR) BOARD, MOUNTED	
10	A-1172-026-A	UZ BOARD, COMPLETE		*	21	A-1405-292-A	HAX BOARD, MOUNTED
11	2-670-349-01	LABEL, TERMINAL		*	22	A-1302-943-A	HCX BOARD, COMPLETE
12	A-1085-903-A	PA BOARD, COMPLETE		23	4-102-123-03	COVER, REAR	
13	A-1176-556-A	DMB COMPLETE BLOCK ASSY					
The DMB Block Assembly(Q Box Assembly) contains the QS Board and QT Board. These boards cannot be ordered separately.							

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


6-2. PICTURE TUBE

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



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
50	X-2108-598-1	BEZNET ASSY	[51-57]	* 60	A-1415-602-A	WY (VAR) BOARD, MOUNTED	
51	4-102-131-11	DAMPER, DOOR		* 61	A-1400-550-A	CH BOARD, MOUNTED	
52	4-102-127-61	DOOR, CONTROL		\triangle 62	1-416-837-21	COIL, DEGAUSSING	
53	4-102-130-11	LABEL, FRONT CONTROL		\triangle 63	8-453-023-21	NECK ASSEMBLY NA328-M2	
54	4-102-129-31	BUTTON, POWER		\triangle 64	1-451-498-31	COIL, NA ROTATION	
55	4-102-128-01	GUIDE, LED		\triangle 65	8-451-498-23	DY Y36RVC-M2	
56	4-093-611-12	BUTTON, MULTI		66	4-046-600-11	SPACER, DY	
57	3-704-179-01	EMBLEM (NO.9), SONY		67	2-163-920-01	PLATE, TLH CORRECTION	
\triangle 58	8-735-225-05	CRT 36RV2(DDP) W86LPH015X		68	4-102-284-11	CLIP, DGC	
59	4-102-136-11	SUPPORTER, CRT		69	4-083-414-01	PIECE A(110), CONV CORRECT	
				70	1-452-032-00	MAGNET,DISC	
				71	4-051-734-21	PIECE B(120), CONV CORRECT	

SECTION 7: ELECTRICAL PARTS LIST




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



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

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

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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES	
								
	A-1172-511-A	A BOARD, COMPLETE						
	4-382-854-01	SCREW (M3X8), P, SW (+)						
	4-382-854-21	SCREW (M3X14), P, SW (+)						
	CAPACITOR							
	C501	1-165-529-31 MYLAR	0.22µF 10 0V					
	C503	1-165-529-31 MYLAR	0.22µF 10 0V					
	C504	1-126-961-11 ELECT	2.2µF 20% 50V					
	C505	1-127-794-51 CERAMIC	2200pF 20% 250V					
	C506	1-126-971-11 ELECT	470µF 20% 50V					
	C507	1-126-943-11 ELECT	2200µF 20% 25V					
	C508	1-127-794-51 CERAMIC	2200pF 20% 250V					
	C512	1-165-530-21 MYLAR	0.47µF 10 0V					
	C513	1-126-961-11 ELECT	2.2µF 20% 50V					
	C514	1-126-960-11 ELECT	1µF 20% 50V					
	C515	1-126-947-11 ELECT	47µF 20% 35V					
	C516	1-126-967-11 ELECT	47µF 20% 50V					
	C517	1-126-943-11 ELECT	2200µF 20% 25V					
	C518	1-126-943-11 ELECT	2200µF 20% 25V					
	C528	1-126-933-11 ELECT	100µF 20% 16V					
	C530	1-126-941-11 ELECT	470µF 20% 25V					
	C536	1-126-933-11 ELECT	100µF 20% 16V					
	C537	1-126-941-11 ELECT	470µF 20% 25V					
	C540	1-126-767-11 ELECT	1000µF 20% 16V					
	C542	1-126-941-11 ELECT	470µF 20% 25V					
	C547	1-126-767-11 ELECT	1000µF 20% 16V					
	C549	1-126-960-11 ELECT	1µF 20% 50V					
	C551	1-126-960-11 ELECT	1µF 20% 50V					
	C553	1-126-767-11 ELECT	1000µF 20% 16V					
	C556	1-126-767-11 ELECT	1000µF 20% 16V					
	C559	1-162-927-11 CERAMIC CHIP	100pF 5% 50V					
	C563	1-126-947-11 ELECT	47µF 20% 35V					
	C565	1-115-156-11 CERAMIC CHIP	1µF 10V					
	C566	1-162-961-11 CERAMIC CHIP	330pF 10% 50V					
	C567	1-165-176-11 CERAMIC CHIP	0.047µF 10% 16V					
	C569	1-126-767-11 ELECT	1000µF 20% 16V					
	C570	1-126-957-11 ELECT	0.22µF 20% 50V					
	C571	1-126-957-11 ELECT	0.22µF 20% 50V					
	C578	1-126-947-11 ELECT	47µF 20% 35V					
	C582	1-136-161-00 FILM	0.047µF 5% 50V					
	C586	1-136-161-00 FILM	0.047µF 5% 50V					
	C587	1-126-960-11 ELECT	1µF 20% 50V					
	C588	1-162-964-11 CERAMIC CHIP	0.001µF 10% 50V					
	C589	1-130-495-00 MYLAR	0.1µF 5% 50V					
	C590	1-126-953-11 ELECT	2200µF 20% 35V					
	C592	1-126-935-11 ELECT	470µF 20% 16V					
	C594	1-126-935-11 ELECT	470µF 20% 16V					
	C596	1-104-666-11 ELECT	220µF 20% 25V					
	C604	1-164-156-11 CERAMIC CHIP	0.1µF 25V					
	C606	1-130-495-00 MYLAR	0.1µF 5% 50V					
	C608	1-130-495-00 MYLAR	0.1µF 5% 50V					
	C609	1-126-942-61 ELECT	1000µF 20% 25V					
	C610	1-126-942-61 ELECT	1000µF 20% 25V					
	C625	1-164-227-11 CERAMIC CHIP	0.022µF 10% 25V					
	C626	1-107-826-11 CERAMIC CHIP	0.1µF 10% 16V					
	C627	1-162-968-11 CERAMIC CHIP	0.0047µF 10% 50V					
	C628	1-162-966-11 CERAMIC CHIP	0.0022µF 10% 50V					
	C629	1-127-715-91 CERAMIC CHIP	0.22µF 10% 16V					
	C630	1-126-963-11 ELECT	4.7µF 20% 50V					
	C900	1-104-666-11 ELECT	220µF 20% 25V					
	C903	1-104-666-11 ELECT	220µF 20% 25V					
	C909	1-136-177-00 FILM	1µF 5% 50V					
	C912	1-136-177-00 FILM	1µF 5% 50V					
	C915	1-162-959-11 CERAMIC CHIP	330pF 5% 50V					
	C918	1-162-968-11 CERAMIC CHIP	0.0047µF 10% 50V					



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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C921	1-164-677-11	CERAMIC CHIP	0.033µF 10% 16V	D510	8-719-991-33	DIODE	1SS133T-77
C924	1-164-677-11	CERAMIC CHIP	0.033µF 10% 16V	D511	8-719-991-33	DIODE	1SS133T-77
C927	1-128-934-91	CERAMIC CHIP	0.33µF 20% 10V	D512	8-719-991-33	DIODE	1SS133T-77
C930	1-164-388-91	CERAMIC CHIP	270pF 5% 50V	D513	8-719-991-33	DIODE	1SS133T-77
C933	1-130-495-00	MYLAR	0.1µF 5% 50V	D514	8-719-991-33	DIODE	1SS133T-77
C939	1-126-933-11	ELECT	100µF 20% 16V	D515	8-719-991-33	DIODE	1SS133T-77
C942	1-162-927-11	CERAMIC CHIP	100pF 5% 50V	D516	8-719-991-33	DIODE	1SS133T-77
C945	1-126-933-11	ELECT	100µF 20% 16V	D517	8-719-991-33	DIODE	1SS133T-77
CONNECTOR				D519	8-719-991-33	DIODE	1SS133T-77
CN501	1-695-915-11	TAB (CONTACT)		D520	8-719-991-33	DIODE	1SS133T-77
*	CN503	1-580-843-11	PIN, CONNECTOR (POWER)	D521	8-719-991-33	DIODE	1SS133T-77
*	CN504	1-766-241-11	PIN, CONNECTOR (PC BOARD)	D523	8-719-991-33	DIODE	1SS133T-77
*	CN505	1-766-241-11	PIN, CONNECTOR (PC BOARD)	D525	8-719-991-33	DIODE	1SS133T-77
*	CN506	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	D527	8-719-991-33	DIODE	1SS133T-77
*	CN507	1-764-812-12	CONNECTOR, BOARD TO BOARD 11P	D530	8-719-924-13	DIODE	MTZJ-T-77-22B
*	CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	D531	8-719-924-13	DIODE	MTZJ-T-77-22B
*	CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	D534	8-719-991-33	DIODE	1SS133T-77
	CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD 40P	D535	8-719-991-33	DIODE	1SS133T-77
*	CN512	1-818-480-12	PIN, CONNECTOR 12P	D540	8-719-991-33	DIODE	1SS133T-77
*	CN514	1-766-240-11	PIN, CONNECTOR (PC BOARD) 2P	D541	8-719-991-33	DIODE	1SS133T-77
	CN515	1-695-915-11	TAB (CONTACT)	D548	8-719-991-33	DIODE	1SS133T-77
	CN516	1-695-915-11	TAB (CONTACT)	D549	8-719-000-07	DIODE	MC2836
	CN517	1-695-915-11	TAB (CONTACT)	D900	8-719-110-31	DIODE	RD12ESB2
	CN518	1-695-915-11	TAB (CONTACT)	D903	8-719-110-31	DIODE	RD12ESB2
	CN519	1-695-915-11	TAB (CONTACT)	FUSE			
	CN520	1-695-915-11	TAB (CONTACT)		F501	1-532-506-32	FUSE 6.3A 250V
*	CN521	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	FERRITE BEAD			
*	CN524	1-564-515-11	PLUG, CONNECTOR 12P	FB500	1-412-911-11	FERRITE	0µH
*	CN526	1-564-508-11	PLUG, CONNECTOR 5P	FB502	1-412-911-11	FERRITE	0µH
*	CN527	1-564-511-61	PLUG, CONNECTOR 8P	FUSE HOLDER			
*	CN531	1-818-482-12	PIN, CONNECTOR 10P		FH501	1-533-223-11	FUSE HOLDER 0A 0V
*	CN534	1-564-507-11	PLUG, CONNECTOR 4P		FH502	1-533-223-11	FUSE HOLDER 0A 0V
*	CN900	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P				
*	CN903	1-564-506-11	PLUG, CONNECTOR 3P				
DIODE							
D501	8-719-991-33	DIODE	1SS133T-77				
D502	8-719-991-33	DIODE	1SS133T-77				
D503	8-719-511-40	DIODE	S1VB40				
D508	8-719-991-33	DIODE	1SS133T-77				
D509	8-719-991-33	DIODE	1SS133T-77				



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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
IC				Q508	8-729-600-22	TRANSISTOR	2SA1235-F
IC501	8-759-450-47	IC	BA05T	Q509	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC502	6-705-958-01	IC	PQ15RW21J00H	Q510	8-729-600-22	TRANSISTOR	2SA1235-F
IC504	6-700-898-01	IC	PQ05RD21J00H	Q511	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC505	8-759-653-07	IC	PQ09RD21J00H	Q512	8-729-600-22	TRANSISTOR	2SA1235-F
IC509	8-759-246-70	IC	TA8216HQ	Q513	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC510	6-705-958-01	IC	PQ15RW21J00H	Q515	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC900	8-749-016-08	IC	STK390-910	Q516	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC903	8-759-595-52	IC	CXA8070AP	Q517	8-729-120-28	TRANSISTOR	2SC1623-L5L6
CHIP CONDUCTOR				Q522	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR510	1-216-864-11	SHORT CHIP		Q528	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR511	1-216-864-11	SHORT CHIP		Q530	8-729-600-22	TRANSISTOR	2SA1235-F
JR516	1-216-864-11	SHORT CHIP		Q531	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR602	1-216-864-11	SHORT CHIP		Q532	8-729-600-22	TRANSISTOR	2SA1235-F
JR603	1-216-864-11	SHORT CHIP		RESISTOR			
JR604	1-216-864-11	SHORT CHIP		R501	1-216-864-11	SHORT CHIP	
JR605	1-216-864-11	SHORT CHIP		R504	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR606	1-216-864-11	SHORT CHIP		R505	1-216-833-11	METAL CHIP	10K 5% 1/10W
COIL				R506	1-216-857-11	METAL CHIP	1M 5% 1/10W
L502	1-412-525-31	INDUCTOR	10 μ H	R507	1-247-895-91	CARBON	470K 5% 1/4W
L508	1-412-529-11	INDUCTOR	22 μ H	R508	1-219-512-11	METAL	2.2M 5% 1/2W
\triangle L510	1-443-402-11	TRANSFORMER, LINE FILTER		\triangle R509	1-244-270-11	CEMENTED	0.47 5% 20W
\triangle L511	1-443-402-11	TRANSFORMER, LINE FILTER		\triangle R510	1-244-270-11	CEMENTED	0.47 5% 20W
L900	1-408-612-31	INDUCTOR	56 μ H	R513	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC LINK				R515	1-216-833-11	METAL CHIP	10K 5% 1/10W
PS501	1-532-984-11	IC LINK	2A 50V	R516	1-216-857-11	METAL CHIP	1M 5% 1/10W
PS503	1-532-984-11	IC LINK	2A 50V	R519	1-215-429-00	METAL	2.2K 1% 1/4W
TRANSISTOR				R520	1-215-433-00	METAL	3.3K 1% 1/4W
Q501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R521	1-215-433-00	METAL	3.3K 1% 1/4W
Q502	8-729-600-22	TRANSISTOR	2SA1235-F	R524	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q503	8-729-600-22	TRANSISTOR	2SA1235-F	R527	1-216-341-11	METAL OXIDE	0.22 5% 1W
Q505	8-729-600-22	TRANSISTOR	2SA1235-F	R531	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R532	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
				R533	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R534	1-218-855-11	METAL CHIP	2.2K 0.50% 1/10W
				R535	1-218-847-11	METAL CHIP	1K 0.50% 1/10W
				R536	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R537	1-218-851-11	METAL CHIP	1.5K 0.50% 1/10W
				R539	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R540	1-216-821-11	METAL CHIP	1K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R542	1-216-821-11	METAL CHIP	1K	5%	1/10W	R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R653	1-216-809-11	METAL CHIP	100	5%	1/10W
R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R655	1-216-820-11	METAL CHIP	820	5%	1/10W
R549	1-216-864-11	SHORT CHIP				R656	1-216-805-11	METAL CHIP	47	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W	R657	1-216-864-11	SHORT CHIP			
R551	1-216-833-11	METAL CHIP	10K	5%	1/10W	R660	1-216-805-11	METAL CHIP	47	5%	1/10W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W	R661	1-216-864-11	SHORT CHIP			
R554	1-216-864-11	SHORT CHIP				R662	1-218-285-11	METAL CHIP	75	5%	1/10W
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W	R663	1-218-285-11	METAL CHIP	75	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W	R664	1-218-285-11	METAL CHIP	75	5%	1/10W
R558	1-216-857-11	METAL CHIP	1M	5%	1/10W	R671	1-216-864-11	SHORT CHIP			
R559	1-216-847-11	METAL CHIP	150K	5%	1/10W	R676	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R566	1-216-864-11	SHORT CHIP				R678	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R567	1-216-864-11	SHORT CHIP				R679	1-216-857-11	METAL CHIP	1M	5%	1/10W
R568	1-216-864-11	SHORT CHIP				R680	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R569	1-216-864-11	SHORT CHIP				R681	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R575	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R682	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R576	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R683	1-216-857-11	METAL CHIP	1M	5%	1/10W
R577	1-216-821-11	METAL CHIP	1K	5%	1/10W	R684	1-216-821-11	METAL CHIP	1K	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R685	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W	R900	1-216-864-11	SHORT CHIP			
R580	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R903	1-260-288-11	CARBON	0.47	5%	1/2W
R584	1-216-813-11	METAL CHIP	220	5%	1/10W	R906	1-260-288-11	CARBON	0.47	5%	1/2W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W	R909	1-216-843-11	METAL CHIP	68K	5%	1/10W
R590	1-216-813-11	METAL CHIP	220	5%	1/10W	R912	1-216-381-11	METAL OXIDE	0.22	5%	3W
R591	1-216-821-11	METAL CHIP	1K	5%	1/10W	R915	1-215-886-11	METAL OXIDE	100	5%	2W
R592	1-216-833-11	METAL CHIP	10K	5%	1/10W	R918	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R596	1-216-833-11	METAL CHIP	10K	5%	1/10W	R920	1-216-864-11	SHORT CHIP			
R600	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R921	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R927	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R608	1-216-821-11	METAL CHIP	1K	5%	1/10W	R930	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R615	1-249-385-11	CARBON	2.2	5%	1/4W	R933	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R619	1-249-385-11	CARBON	2.2	5%	1/4W	R939	1-216-805-11	METAL CHIP	47	5%	1/10W
R628	1-249-429-11	CARBON	10K	5%	1/4W	R942	1-216-429-00	METAL OXIDE	270	5%	1W
R629	1-249-429-11	CARBON	10K	5%	1/4W	R945	1-216-805-11	METAL CHIP	47	5%	1/10W
R643	1-216-864-11	SHORT CHIP				R948	1-216-845-11	METAL CHIP	100K	5%	1/10W
R646	1-216-864-11	SHORT CHIP				R949	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R650	1-216-809-11	METAL CHIP	100	5%	1/10W	R950	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R651	1-216-817-11	METAL CHIP	470	5%	1/10W	R951	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R2300	1-216-853-11	METAL CHIP	470K	5%	1/10W

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



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
RELAY						C2823	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
\triangle RY501	1-755-389-11	RELAY (AC POWER)				C2824	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
TRANSFORMER						C2825	1-162-964-11	CERAMIC CHIP	0.001 μ F	10%	50V
T502	1-437-697-11	TRANSFORMER, STANDBY				C2826	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
THERMISTOR						C2827	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
\triangle TH501	1-803-970-11	THERMISTOR, POSITIVE				C2828	1-110-563-11	CERAMIC CHIP	0.068 μ F	10%	16V
VARISTOR						C2829	1-162-968-11	CERAMIC CHIP	0.0047 μ F	10%	50V
\triangle VD501	1-804-992-21	VARISTOR				C2830	1-128-996-11	ELECT CHIP	4.7 μ F	20%	50V
CAPACITOR						C2831	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2801	1-117-681-11	ELECT CHIP	100 μ F	20%	16V	C2833	1-127-715-91	CERAMIC CHIP	0.22 μ F	10%	16V
C2802	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V	C2834	1-125-891-11	CERAMIC CHIP	0.47 μ F	10%	10V
C2804	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	C2835	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V
C2805	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V	C2836	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
C2806	1-125-891-11	CERAMIC CHIP	0.47 μ F	10%	10V	C2837	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2808	1-128-996-11	ELECT CHIP	4.7 μ F	20%	50V	C2840	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V
C2809	1-117-681-11	ELECT CHIP	100 μ F	20%	16V	C2841	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V
C2810	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2842	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2811	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V	C2843	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
C2812	1-125-891-11	CERAMIC CHIP	0.47 μ F	10%	10V	C2844	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2813	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2845	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2814	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2846	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V
C2815	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2847	1-127-715-91	CERAMIC CHIP	0.22 μ F	10%	16V
C2816	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2849	1-162-966-11	CERAMIC CHIP	0.0022 μ F	10%	50V
C2817	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C2850	1-117-681-11	ELECT CHIP	100 μ F	20%	16V
C2818	1-162-964-11	CERAMIC CHIP	0.001 μ F	10%	50V	C2851	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
C2819	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C3001	1-126-205-11	ELECT CHIP	47 μ F	20%	6.3V
C2820	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V	C3002	1-126-205-11	ELECT CHIP	47 μ F	20%	6.3V
C2821	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C3003	1-126-205-11	ELECT CHIP	47 μ F	20%	6.3V
C2822	1-107-826-11	CERAMIC CHIP	0.1 μ F	10%	16V	C3004	1-125-891-11	CERAMIC CHIP	0.47 μ F	10%	10V
						C3207	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V
						C3208	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V
						C3209	1-126-205-11	ELECT CHIP	47 μ F	20%	6.3V
						C3301	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
						C3302	1-124-779-00	ELECT CHIP	10 μ F	20%	16V
						C3303	1-126-205-11	ELECT CHIP	47 μ F	20%	6.3V
						C3304	1-164-156-11	CERAMIC CHIP	0.1 μ F		25V
						C3305	1-137-710-11	CERAMIC CHIP	10 μ F	20%	6.3V
						C3306	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V
						C3307	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V
						C3311	1-162-970-11	CERAMIC CHIP	0.01 μ F	10%	25V



A-1087-818-A B BOARD, COMPLETE

Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3312	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3362	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3313	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3363	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3314	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3364	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3315	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3365	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3316	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3366	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3317	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3367	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3318	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3368	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3319	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3369	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C3320	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3370	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3321	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3371	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3323	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V	C3372	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3324	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3373	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3325	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3374	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3328	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3375	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3329	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3376	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3331	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3332	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3378	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3333	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3379	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3335	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3380	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3336	1-162-918-11	CERAMIC CHIP	18pF	5%	50V	C3383	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3338	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3384	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3340	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3385	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3342	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3386	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3343	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3387	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3344	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C3388	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3345	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C3389	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3347	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3390	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3348	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3391	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3349	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3392	1-137-710-11	CERAMIC CHIP	10μF	20%	6.3V
C3350	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3393	1-137-710-11	CERAMIC CHIP	10μF	20%	6.3V
C3351	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3394	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3353	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3395	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3354	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3397	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3355	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3398	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3356	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V	C3399	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3357	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3400	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3358	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3402	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3359	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3403	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3360	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3404	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3361	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V	C3417	1-126-204-11	ELECT CHIP	47μF	20%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C3418	1-126-204-11	ELECT CHIP	47μF	20%	16V						
C3419	1-126-204-11	ELECT CHIP	47μF	20%	16V						
C3420	1-126-204-11	ELECT CHIP	47μF	20%	16V						
C3421	1-126-204-11	ELECT CHIP	47μF	20%	16V						
C3422	1-126-204-11	ELECT CHIP	47μF	20%	16V						
C3423	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3424	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3425	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3430	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
C3431	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3432	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3433	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3434	1-164-156-11	CERAMIC CHIP	0.1μF		25V						
C3435	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V						
C3436	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3437	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3438	1-124-779-00	ELECT CHIP	10μF	20%	16V						
C3922	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V						
C3934	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V						
CONNECTOR											
*	CN2803	1-564-509-11	PLUG, CONNECTOR		6P						
*	CN2805	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)		11P						
DIODE											
D2803	8-719-404-50	DIODE	MA111-TX								
D2806	8-719-069-55	DIODE	UDZSTE-175.6B								
D3003	8-719-914-44	DIODE	DAP202K								
D3004	8-719-914-43	DIODE	DAN202K								
FERRITE BEAD											
FB3001	1-500-451-11	FERRITE	0μH								
FB3301	1-400-180-21	INDUCTOR	0μH								
FB3302	1-400-180-21	INDUCTOR	0μH								
FB3303	1-216-809-11	METAL CHIP	100	5%	1/10W						
FB3304	1-414-235-22	FERRITE	0μH								
FB3305	1-414-235-22	FERRITE	0μH								
FILTER											
FL3300	1-781-923-21	FILTER, LOW PASS (SMD)									
FL3304	1-409-755-11	FERRITE	0μH								
FL3305	1-409-755-11	FERRITE	0μH								
FL3306	1-409-755-11	FERRITE	0μH								
FL3307	1-781-924-21	FILTER, LOW PASS (SMD)									
FL3311	1-234-126-21	FERRITE	0μH								
FL3312	1-234-126-21	FERRITE	0μH								
IC											
IC2801	8-752-102-68	IC	CXA2170Q								
IC3205	6-705-403-01	IC	PQ070XZ01ZPH								
IC3301	8-753-229-46	IC	CXD3808AQ								
IC3302	6-706-155-01	IC	MT48LC2M32B2P-6:G								
IC3303	8-759-649-46	IC	SN74AHC1G08DCKR								
IC3305	8-759-669-78	IC	TLC2933IPWR-12								
IC3306	8-759-649-46	IC	SN74AHC1G08DCKR								
IC3310	8-759-833-72	IC	NJM2870F25-TE2								
IC3311	8-759-833-72	IC	NJM2870F25-TE2								
COIL											
L2801	1-469-555-21	INDUCTOR	10μH								
L2803	1-469-555-21	INDUCTOR	10μH								
L2804	1-469-555-21	INDUCTOR	10μH								
L2805	1-469-555-21	INDUCTOR	10μH								
L2806	1-469-555-21	INDUCTOR	10μH								
L2807	1-469-555-21	INDUCTOR	10μH								
L2811	1-469-555-21	INDUCTOR	10μH								
L2812	1-216-864-11	SHORT CHIP									
L3301	1-469-555-21	INDUCTOR	10μH								
L3302	1-469-561-21	INDUCTOR	100μH								
L3303	1-469-561-21	INDUCTOR	100μH								
L3307	1-469-555-21	INDUCTOR	10μH								
L3308	1-469-555-21	INDUCTOR	10μH								
L3309	1-469-555-21	INDUCTOR	10μH								
L3310	1-469-555-21	INDUCTOR	10μH								
L3311	1-216-864-11	SHORT CHIP									
L3315	1-469-549-21	INDUCTOR	1μH								
L3317	1-412-026-11	INDUCTOR	1μH								



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
TRANSISTOR				R2807	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4	R2808	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q2802	8-729-600-22	TRANSISTOR	2SA1235-F	R2809	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2803	8-729-600-22	TRANSISTOR	2SA1235-F	R2810	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2804	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2811	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2805	8-729-600-22	TRANSISTOR	2SA1235-F	R2812	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
Q2806	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2813	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2807	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2815	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4	R2816	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4	R2817	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4	R2818	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2818	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2819	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2822	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2820	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2823	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2821	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2824	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2823	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q2825	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2824	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2826	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2825	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q3001	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2826	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
Q3002	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2827	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q3301	8-729-028-28	TRANSISTOR	2SK2036(TE85L)	R2828	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
Q3302	8-729-028-28	TRANSISTOR	2SK2036(TE85L)	R2829	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q3312	8-729-600-22	TRANSISTOR	2SA1235-F	R2830	1-216-818-11	METAL CHIP	560 5% 1/10W
Q3313	8-729-010-05	TRANSISTOR	MSB709-RT1	R2831	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q3314	8-729-010-25	TRANSISTOR	MSD601-RT1	R2832	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3315	8-729-600-22	TRANSISTOR	2SA1235-F	R2833	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3316	8-729-600-22	TRANSISTOR	2SA1235-F	R2834	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3317	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2835	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3318	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2836	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3319	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2837	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3411	8-729-600-22	TRANSISTOR	2SA1235-F	R2838	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3412	8-729-600-22	TRANSISTOR	2SA1235-F	R2839	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3413	8-729-600-22	TRANSISTOR	2SA1235-F	R2840	1-216-809-11	METAL CHIP	100 5% 1/10W
RESISTOR				R2841	1-216-809-11	METAL CHIP	100 5% 1/10W
R2801	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W	R2842	1-216-809-11	METAL CHIP	100 5% 1/10W
R2803	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2843	1-216-809-11	METAL CHIP	100 5% 1/10W
R2804	1-216-805-11	METAL CHIP	47 5% 1/10W	R2844	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R2805	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R2845	1-216-809-11	METAL CHIP	100 5% 1/10W
R2806	1-216-863-11	METAL CHIP	3.3M 5% 1/10W	R2846	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
				R2847	1-216-809-11	METAL CHIP	100 5% 1/10W
				R2848	1-216-825-11	METAL CHIP	2.2K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2912	1-216-864-11	SHORT CHIP			
R2850	1-216-809-11	METAL CHIP	100	5%	1/10W	R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2851	1-216-815-11	METAL CHIP	330	5%	1/10W	R2920	1-216-864-11	SHORT CHIP			
R2853	1-216-864-11	SHORT CHIP				R2921	1-216-864-11	SHORT CHIP			
R2854	1-216-864-11	SHORT CHIP				R2922	1-216-864-11	SHORT CHIP			
R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R3000	1-216-809-11	METAL CHIP	100	5%	1/10W
R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2862	1-216-809-11	METAL CHIP	100	5%	1/10W	R3280	1-218-838-11	METAL CHIP	430	0.50%	1/10W
R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3281	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3282	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3283	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2868	1-216-809-11	METAL CHIP	100	5%	1/10W	R3284	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2869	1-216-809-11	METAL CHIP	100	5%	1/10W	R3285	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2870	1-216-809-11	METAL CHIP	100	5%	1/10W	R3286	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3287	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R3288	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3289	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3290	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3291	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3320	1-216-864-11	SHORT CHIP			
R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3321	1-218-703-11	METAL CHIP	3K	0.50%	1/10W
R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3322	1-216-805-11	METAL CHIP	47	5%	1/10W
R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3323	1-216-809-11	METAL CHIP	100	5%	1/10W
R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3324	1-216-809-11	METAL CHIP	100	5%	1/10W
R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3325	1-216-809-11	METAL CHIP	100	5%	1/10W
R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3326	1-216-809-11	METAL CHIP	100	5%	1/10W
R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3327	1-216-809-11	METAL CHIP	100	5%	1/10W
R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3328	1-216-864-11	SHORT CHIP			
R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3329	1-216-864-11	SHORT CHIP			
R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3330	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R3331	1-216-819-11	METAL CHIP	680	5%	1/10W
R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R3333	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3334	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3336	1-216-855-11	METAL CHIP	680K	5%	1/10W
R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3351	1-216-809-11	METAL CHIP	100	5%	1/10W
R2907	1-218-656-11	METAL CHIP	33	0.50%	1/10W	R3352	1-216-809-11	METAL CHIP	100	5%	1/10W
R2908	1-218-656-11	METAL CHIP	33	0.50%	1/10W	R3353	1-216-864-11	SHORT CHIP			
R2909	1-218-656-11	METAL CHIP	33	0.50%	1/10W	R3354	1-216-864-11	SHORT CHIP			
R2911	1-216-864-11	SHORT CHIP				R3355	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W



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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
TRANSISTOR							
Q9001	8-729-600-22	TRANSISTOR	2SA1235-F	R9053	1-249-424-11	CARBON	3.9K 5% 1/4W
Q9003	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9054	1-249-424-11	CARBON	3.9K 5% 1/4W
Q9004	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9056	1-219-743-11	METAL	100 5% 1/2W
Q9005	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9057	1-219-510-11	METAL	470K 5% 1/2W
Q9009	8-729-600-22	TRANSISTOR	2SA1235-F	R9059	1-219-746-11	METAL	1K 5% 1/2W
Q9010	8-729-600-22	TRANSISTOR	2SA1235-F	R9061	1-219-743-11	METAL	100 5% 1/2W
Q9011	8-729-600-22	TRANSISTOR	2SA1235-F	R9062	1-260-123-11	CARBON	100K 5% 1/2W
Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7	R9063	1-216-097-11	RES-CHIP	100K 5% 1/10W
RESISTOR							
R9001	1-216-041-00	RES-CHIP	470 5% 1/10W	R9065	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R9006	1-216-073-91	RES-CHIP	10K 5% 1/10W	R9068	1-216-101-00	RES-CHIP	150K 5% 1/10W
R9007	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	R9070	1-249-411-11	CARBON	330 5% 1/4W
R9008	1-216-085-91	RES-CHIP	33K 5% 1/10W	R9071	1-249-411-11	CARBON	330 5% 1/4W
R9012	1-216-049-11	RES-CHIP	1K 5% 1/10W	R9072	1-216-037-00	RES-CHIP	330 5% 1/10W
R9013	1-216-049-11	RES-CHIP	1K 5% 1/10W	R9073	1-216-049-11	RES-CHIP	1K 5% 1/10W
R9014	1-216-033-00	RES-CHIP	220 5% 1/10W	R9074	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R9015	1-249-409-11	CARBON	220 5% 1/4W	R9077	1-216-073-91	RES-CHIP	10K 5% 1/10W
R9016	1-216-033-00	RES-CHIP	220 5% 1/10W	R9089	1-208-806-11	METAL CHIP	10K 0.50% 1/10W
R9018	1-216-041-00	RES-CHIP	470 5% 1/10W	R9091	1-215-429-00	METAL	2.2K 1% 1/4W
R9019	1-216-041-00	RES-CHIP	470 5% 1/10W	VARIABLE RESISTOR			
R9026	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	\triangle RV9001	1-241-714-11	RES, ADJ, METAL FILM	110M
R9031	1-208-789-11	METAL CHIP	2K 0.50% 1/10W	D			
R9033	1-215-447-00	METAL	12K 1% 1/4W	A-1172-628-A D BOARD, COMPLETE			
R9034	1-215-439-00	METAL	5.6K 1% 1/4W	4-382-854-01 SCREW (M3X8), P, SW (+)			
R9035	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W	4-382-854-21 SCREW (M3X14), P, SW (+)			
R9036	1-216-049-11	RES-CHIP	1K 5% 1/10W	The high-voltage leads associated with the FBT on this D Board are not included and must be ordered separately. Order the following leads when requesting this D Board.			
R9037	1-240-233-71	METAL OXIDE	100K 5% 3W	\triangle 1-900-808-42 WIRE ASSY, G2			
R9038	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W	\triangle 1-900-805-19 WIRE ASSY, FOCUS HV			
R9039	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W	\triangle 1-251-715-22 CAP ASSY, HIGH-VOLTAGE			
R9041	1-216-049-11	RES-CHIP	1K 5% 1/10W	CAPACITOR			
R9042	1-216-049-11	RES-CHIP	1K 5% 1/10W	C5001	1-162-966-11	CERAMIC CHIP	0.0022 μ F 10% 50V
R9043	1-240-233-71	METAL OXIDE	100K 5% 3W	C5002	1-106-383-00	MYLAR	0.047 μ F 10% 200V
R9044	1-240-233-71	METAL OXIDE	100K 5% 3W	C5003	1-162-967-11	CERAMIC CHIP	0.0033 μ F 10% 50V
R9047	1-219-744-11	METAL	220 5% 1/2W	C5004	1-106-383-00	MYLAR	0.047 μ F 10% 200V
R9048	1-216-049-11	RES-CHIP	1K 5% 1/10W	C5005	1-126-235-11	ELECT	100 μ F 20% 16V
R9049	1-216-049-11	RES-CHIP	1K 5% 1/10W				
R9050	1-249-424-11	CARBON	3.9K 5% 1/4W				
R9051	1-219-744-11	METAL	220 5% 1/2W				
R9052	1-219-744-11	METAL	220 5% 1/2W				



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5006	1-126-964-11	ELECT	10μF	20%	50V	C5061	1-117-839-11	FILM	9100pF	3%	1.5KV
C5007	1-126-941-11	ELECT	470μF	20%	25V	C5064	1-117-668-31	FILM	0.56μF	5%	250V
C5009	1-126-941-11	ELECT	470μF	20%	25V	C5065	1-107-506-11	FILM	0.68μF	3%	400V
C5010	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C5066	1-109-921-11	CERAMIC	0.0015μF	10%	500V
C5011	1-107-641-11	ELECT	220μF	20%	160V	C5070	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5012	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C5071	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5013	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C5074	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C5014	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C5075	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5016	1-130-783-71	MYLAR	0.33μF	10%	100V	C5076	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5017	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V	C5077	1-164-360-11	CERAMIC CHIP	0.1μF		16V
C5018	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C5078	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V
C5019	1-126-968-11	ELECT	100μF	20%	50V	C5079	1-162-965-11	CERAMIC CHIP	0.0015μF	10%	50V
C5020	1-104-665-11	ELECT	100μF	20%	25V	C5082	1-117-839-11	FILM	9100pF	3%	1.5KV
C5022	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C5084	1-126-941-11	ELECT	470μF	20%	25V
C5024	1-102-038-00	CERAMIC	0.001μF		500V	C5086	1-126-941-11	ELECT	470μF	20%	25V
C5028	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V	C5502	1-126-942-61	ELECT	1000μF	20%	25V
C5030	1-137-365-11	MYLAR	0.0015μF	5%	50V	C5504	1-126-947-11	ELECT	47μF	20%	35V
C5031	1-162-965-11	CERAMIC CHIP	0.0015μF	10%	50V	C5505	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5032	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V	C5506	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C5033	1-130-495-00	MYLAR	0.1μF	5%	50V	C5511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5035	1-104-665-11	ELECT	100μF	20%	25V	C5512	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C5036	1-126-941-11	ELECT	470μF	20%	25V	C5513	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C5040	1-126-935-11	ELECT	470μF	20%	16V	C5514	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5041	1-126-935-11	ELECT	470μF	20%	16V	C5515	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5044	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5516	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5045	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5517	1-129-716-00	FILM	0.015μF	5%	400V
C5046	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V	C5518	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5047	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V	C5519	1-165-176-11	CERAMIC CHIP	0.047μF	10%	16V
C5048	1-162-953-11	CERAMIC CHIP	100pF	5%	50V	C5520	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5049	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C5521	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5050	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C5522	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V
C5051	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C5523	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5052	1-126-947-11	ELECT	47μF	20%	35V	C5524	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5053	1-106-220-00	MYLAR	0.1μF	10%	100V	C5526	1-162-967-11	CERAMIC CHIP	0.0033μF	10%	50V
C5054	1-104-666-11	ELECT	220μF	20%	25V	C5527	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5056	1-162-318-11	CERAMIC	0.001μF	10%	500V	C5528	1-129-709-91	FILM	0.0039μF	5%	630V
C5057	1-104-332-11	CERAMIC	470pF	10%	2KV	C5529	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5058	1-162-116-00	CERAMIC	680pF	10%	2KV	C5530	1-136-167-00	FILM	0.15μF	5%	50V
C5059	1-162-116-00	CERAMIC	680pF	10%	2KV	C5531	1-130-495-00	MYLAR	0.1μF	5%	50V
C5060	1-137-417-11	MYLAR	0.015μF	10%	100V	C5533	1-126-961-11	ELECT	2.2μF	20%	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5534	1-126-947-11	ELECT	47μF	20%	35V	C6593	1-126-768-11	ELECT	2200μF	20%	16V
C5535	1-126-947-11	ELECT	47μF	20%	35V	C6595	1-104-666-11	ELECT	220μF	20%	25V
C5540	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C6596	1-126-960-11	ELECT	1μF	20%	50V
C5548	1-137-194-81	FILM	0.47μF	5%	50V	C6597	1-100-120-51	ELECT	1000μF	20%	35V
C5550	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8001	1-126-964-11	ELECT	10μF	20%	50V
C5551	1-126-947-11	ELECT	47μF	20%	35V	C8002	1-126-964-11	ELECT	10μF	20%	50V
C5552	1-126-947-11	ELECT	47μF	20%	35V	C8003	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5598	1-126-947-11	ELECT	47μF	20%	35V	C8005	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5609	1-104-665-11	ELECT	100μF	20%	25V	C8006	1-126-960-11	ELECT	1μF	20%	50V
C5623	1-104-665-11	ELECT	100μF	20%	25V	C8007	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V
C6502	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8012	1-104-665-11	ELECT	100μF	20%	25V
C6503	1-131-940-11	ELECT	1200μF	20%	250V	C8015	1-104-665-11	ELECT	100μF	20%	25V
C6507	1-130-495-00	MYLAR	0.1μF	5%	50V	C8016	1-130-495-00	MYLAR	0.1μF	5%	50V
C6508	1-126-947-11	ELECT	47μF	20%	35V	C8017	1-126-964-11	ELECT	10μF	20%	50V
C6510	1-130-495-00	MYLAR	0.1μF	5%	50V	C8018	1-126-964-11	ELECT	10μF	20%	50V
C6511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8020	1-130-495-00	MYLAR	0.1μF	5%	50V
C6513	1-126-940-11	ELECT	330μF	20%	25V	C8021	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C6514	1-126-767-11	ELECT	1000μF	20%	16V	C8024	1-126-967-11	ELECT	47μF	20%	50V
C6515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8025	1-126-947-11	ELECT	47μF	20%	35V
C6516	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8027	1-130-495-00	MYLAR	0.1μF	5%	50V
C6517	1-126-963-11	ELECT	4.7μF	20%	50V	C8028	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C6518	1-136-479-11	FILM	0.001μF	5%	100V	C8030	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V
C6519	1-126-964-11	ELECT	10μF	20%	50V	C8031	1-104-663-11	ELECT	33μF	20%	25V
C6525	1-125-969-91	CERAMIC	680pF	10%	1KV	C8032	1-136-813-11	FILM	680pF	5%	100V
C6526	1-125-969-91	CERAMIC	680pF	10%	1KV	C8033	1-126-964-11	ELECT	10μF	20%	50V
C6532	1-137-741-22	FILM	39000pF	3%	800V	C8035	1-100-614-81	CERAMIC	330pF	5%	1KV
C6546	1-126-974-11	ELECT	3300μF	20%	50V	C8036	1-100-614-81	CERAMIC	330pF	5%	1KV
C6549	1-126-969-11	ELECT	220μF	20%	50V	C8037	1-165-953-11	FILM	47000pF	3%	800V
C6550	1-126-968-11	ELECT	100μF	20%	50V	C8040	1-126-969-11	ELECT	220μF	20%	50V
C6551	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V	C8041	1-130-777-00	MYLAR	0.1μF	5%	100V
C6552	1-126-937-11	ELECT	4700μF	20%	16V	C8042	1-136-189-00	MYLAR	0.1μF	10%	250V
C6554	1-126-953-11	ELECT	2200μF	20%	35V	C8045	1-130-475-00	MYLAR	0.0022μF	5%	50V
C6555	1-104-665-11	ELECT	100μF	20%	25V	C8046	1-107-444-11	CERAMIC	100pF	5%	2KV
C6556	1-131-867-51	ELECT	100μF		160V	C8047	1-162-130-11	CERAMIC	180pF	10%	2KV
C6557	1-107-654-11	ELECT	33μF	20%	250V	C8048	1-137-378-11	MYLAR	0.22μF	5%	50V
C6558	1-126-967-11	ELECT	47μF	20%	50V	C8050	1-100-122-31	FILM	0.022μF	5%	400V
C6559	1-126-942-61	ELECT	1000μF	20%	25V	C8051	1-126-964-11	ELECT	10μF	20%	50V
C6584	1-165-528-31	MYLAR	0.1μF	10	0V	C8052	1-104-665-11	ELECT	100μF	20%	25V
C6590	1-131-940-11	ELECT	1200μF	20%	250V	C8053	1-162-117-00	CERAMIC	100pF	10%	500V
C6592	1-119-898-51	CERAMIC	470pF	10%	250V	C8054	1-102-244-00	CERAMIC	220pF	10%	500V



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C8055	1-136-535-91	FILM	0.0018μF 5% 630V	D5023	8-719-061-21	DIODE	FMQ-G5FMS
C8056	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	D5027	8-719-404-50	DIODE	MA111-TX
C8058	1-137-194-81	FILM	0.47μF 5% 50V	D5028	8-719-404-50	DIODE	MA111-TX
C8059	1-126-947-11	ELECT	47μF 20% 35V	D5032	8-719-404-50	DIODE	MA111-TX
C8060	1-107-635-11	ELECT	4.7μF 20% 160V	D5035	8-719-302-43	DIODE	EL1Z
C8063	1-165-607-91	FILM	10000pF 3% 800V	D5036	8-719-302-43	DIODE	EL1Z
C8065	1-127-715-91	CERAMIC CHIP	0.22μF 10% 16V	D5501	8-719-404-50	DIODE	MA111-TX
C8073	1-162-962-11	CERAMIC CHIP	470pF 10% 50V	D5502	8-719-404-50	DIODE	MA111-TX
C8074	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	D5504	8-719-404-50	DIODE	MA111-TX
C8075	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	D5506	8-719-404-50	DIODE	MA111-TX
C8076	1-126-963-11	ELECT	4.7μF 20% 50V	D5508	8-719-404-50	DIODE	MA111-TX
C8077	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V	D5511	8-719-062-51	DIODE	1PS226-115
C8079	1-127-715-91	CERAMIC CHIP	0.22μF 10% 16V	D5512	8-719-062-51	DIODE	1PS226-115
C8139	1-165-176-11	CERAMIC CHIP	0.047μF 10% 16V	D5513	8-719-404-50	DIODE	MA111-TX
				D5514	8-719-060-90	DIODE	S2L60F
				D5515	8-719-404-50	DIODE	MA111-TX
				D6502	8-719-979-64	DIODE	UF4005/23
				D6504	8-719-510-12	DIODE	D10SC4M
				D6505	8-719-404-50	DIODE	MA111-TX
				D6508	8-719-982-27	DIODE	MTZJ-33C
				D6509	8-719-068-00	DIODE	ERC04-06SE
				D6510	8-719-068-00	DIODE	ERC04-06SE
				D6513	8-719-510-12	DIODE	D10SC4M
				D6514	8-719-060-89	DIODE	D4SBS6-F
				D6516	8-719-075-66	DIODE	D5LC20U-4012
				D6518	8-719-052-90	DIODE	D1NL40-TA2
				D6519	8-719-063-74	DIODE	D1NL20U-TR2
				D6520	8-719-063-74	DIODE	D1NL20U-TR2
				D6521	8-719-404-50	DIODE	MA111-TX
				D6523	8-719-060-89	DIODE	D4SBS6-F
				D6524	8-719-062-40	DIODE	D4SBL20μF3
				D6525	8-719-982-27	DIODE	MTZJ-33C
				D6530	8-719-510-53	DIODE	D4SB60L
				D6532	8-719-948-45	DIODE	ERA22-08
				D6533	8-719-404-50	DIODE	MA111-TX
				D6534	8-719-404-50	DIODE	MA111-TX
				D6537	8-719-404-50	DIODE	MA111-TX
				D6538	8-719-109-85	DIODE	RD5.1ESB2
				D8001	8-719-404-50	DIODE	MA111-TX
				D8003	8-719-404-50	DIODE	MA111-TX
D5001	6-500-021-01	DIODE	MM3Z4V7ST1				
D5002	8-719-908-03	DIODE	GP08D				
D5003	8-719-028-45	DIODE	D2L20U				
D5004	6-500-029-01	DIODE	MM3Z12VST1				
D5005	8-719-404-50	DIODE	MA111-TX				
D5006	8-719-404-50	DIODE	MA111-TX				
D5007	8-719-404-50	DIODE	MA111-TX				
D5008	8-719-404-50	DIODE	MA111-TX				
D5010	8-719-404-50	DIODE	MA111-TX				
D5011	8-719-109-63	DIODE	RD3.0ESB2				
D5014	8-719-075-66	DIODE	D5LC20U-4012				
D5016	8-719-028-45	DIODE	D2L20U				
D5017	8-719-028-45	DIODE	D2L20U				
D5018	8-719-083-83	DIODE	UDZS-TE17-15B				
D5019	8-719-404-50	DIODE	MA111-TX				

CONNECTOR

*	CN5001	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P
*	CN5003	1-564-507-11	PLUG, CONNECTOR	4P
*	CN5009	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5011	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P
*	CN5509	1-564-515-11	PLUG, CONNECTOR	12P
*	CN6502	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P
*	CN6503	1-564-508-11	PLUG, CONNECTOR	5P
*	CN6504	1-564-515-11	PLUG, CONNECTOR	12P
*	CN6506	1-779-890-11	CONNECTOR, BOARD TO BOARD	10P

DIODE

D5001	6-500-021-01	DIODE	MM3Z4V7ST1
D5002	8-719-908-03	DIODE	GP08D
D5003	8-719-028-45	DIODE	D2L20U
D5004	6-500-029-01	DIODE	MM3Z12VST1
D5005	8-719-404-50	DIODE	MA111-TX
D5006	8-719-404-50	DIODE	MA111-TX
D5007	8-719-404-50	DIODE	MA111-TX
D5008	8-719-404-50	DIODE	MA111-TX
D5010	8-719-404-50	DIODE	MA111-TX
D5011	8-719-109-63	DIODE	RD3.0ESB2
D5014	8-719-075-66	DIODE	D5LC20U-4012
D5016	8-719-028-45	DIODE	D2L20U
D5017	8-719-028-45	DIODE	D2L20U
D5018	8-719-083-83	DIODE	UDZS-TE17-15B
D5019	8-719-404-50	DIODE	MA111-TX



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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D8005	8-719-404-50	DIODE	MA111-TX	IC			
D8006	8-719-063-74	DIODE	D1NL20U-TR2	IC5001	8-759-701-01	IC	NJM2904M
D8007	8-719-404-50	DIODE	MA111-TX	IC5002	8-759-700-07	IC	NJM2903M
D8009	8-719-083-83	DIODE	UDZS-TE17-15B	IC5004	8-759-696-71	IC	STV9379A
D8010	8-719-979-64	DIODE	μ F4005/23	IC5005	8-759-803-42	IC	LA6500-FA
D8011	8-719-110-41	DIODE	RD15ESB2	IC5006	8-749-013-76	IC	PQ6RD83BJ00H
D8012	8-719-110-41	DIODE	RD15ESB2	IC5007	8-759-981-61	IC	LM2901M
D8013	8-719-083-83	DIODE	UDZS-TE17-15B	IC5502	8-759-981-61	IC	LM2901M
D8014	8-719-083-83	DIODE	UDZS-TE17-15B	IC5504	8-759-803-42	IC	LA6500-FA
D8015	8-719-404-50	DIODE	MA111-TX	IC5506	8-759-803-42	IC	LA6500-FA
D8016	8-719-948-45	DIODE	ERA22-08	IC5511	8-759-701-01	IC	NJM2904M
D8017	8-719-948-45	DIODE	ERA22-08	IC5512	8-759-929-65	IC	LM7912CT
D8018	8-719-948-45	DIODE	ERA22-08	IC5515	8-759-701-01	IC	NJM2904M
Δ D8022	8-719-063-74	DIODE	D1NL20U-TR2	IC6501	6-705-810-01	IC	MCZ3001DB
D8023	8-719-109-85	DIODE	RD5.1ESB2	IC6502	6-700-897-01	IC	PQ12RD21J00H
D8024	8-719-109-85	DIODE	RD5.1ESB2	Δ IC6503	8-749-017-76	IC	DM-58M
D8026	8-719-404-50	DIODE	MA111-TX	IC6505	8-749-921-86	IC	SE-140N
D8028	8-719-976-99	DIODE	DTZ5.1B	Δ IC8001	8-759-700-07	IC	NJM2903M
D8030	8-719-056-93	DIODE	UDZ-TE-17-18B	Δ IC8002	6-705-810-01	IC	MCZ3001DB
D8031	8-719-404-50	DIODE	MA111-TX	Δ IC8004	8-759-701-01	IC	NJM2904M
D8034	8-719-921-63	DIODE	MTZJ-7.5B	Δ IC8005	6-706-127-01	IC	TL1431ACZ-AP
D8140	8-719-404-50	DIODE	MA111-TX	IC8006	8-759-700-07	IC	NJM2903M
				Δ IC8104	6-706-127-01	IC	TL1431ACZ-AP
FERRITE BEAD				CHIP CONDUCTOR			
FB5001	1-410-397-21	FERRITE	1.1 μ H	JR5000	1-216-864-11	SHORT CHIP	
FB5002	1-543-298-11	FERRITE	0 μ H	JR5001	1-216-864-11	SHORT CHIP	
FB5003	1-410-397-21	FERRITE	1.1 μ H	JR5002	1-216-864-11	SHORT CHIP	
FB5004	1-410-397-21	FERRITE	1.1 μ H	JR5003	1-216-864-11	SHORT CHIP	
FB5005	1-410-397-21	FERRITE	1.1 μ H	JR5004	1-216-864-11	SHORT CHIP	
FB6501	1-410-397-21	FERRITE	1.1 μ H	JR5005	1-216-864-11	SHORT CHIP	
FB6508	1-410-396-41	FERRITE	0.45 μ H	JR5006	1-216-864-11	SHORT CHIP	
FB6509	1-410-396-41	FERRITE	0.45 μ H	JR5007	1-216-864-11	SHORT CHIP	
FB6519	1-410-397-21	FERRITE	1.1 μ H	JR5008	1-216-864-11	SHORT CHIP	
FB6520	1-412-911-11	FERRITE	0 μ H	JR5009	1-216-864-11	SHORT CHIP	
FB6521	1-412-911-11	FERRITE	0 μ H	JR5010	1-216-864-11	SHORT CHIP	
FB8001	1-412-911-11	FERRITE	0 μ H	JR5011	1-216-864-11	SHORT CHIP	
FB8002	1-412-911-11	FERRITE	0 μ H	JR5012	1-216-864-11	SHORT CHIP	
				JR5013	1-216-864-11	SHORT CHIP	
				JR5014	1-216-864-11	SHORT CHIP	



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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
JR5015	1-216-864-11	SHORT CHIP				PHOTO COUPLER	
JR5016	1-216-864-11	SHORT CHIP		PH6501	6-600-187-01	PHOTO COUPLER	PC123Y22J00F
JR5065	1-216-864-11	SHORT CHIP		PH6502	6-600-187-01	PHOTO COUPLER	PC123Y22J00F
JR5501	1-216-864-11	SHORT CHIP		PH8001	6-600-187-01	PHOTO COUPLER	PC123Y22J00F
JR5503	1-216-864-11	SHORT CHIP		Δ PH8003	6-600-187-01	PHOTO COUPLER	PC123Y22J00F
JR5504	1-216-864-11	SHORT CHIP		PH8004	6-600-187-01	PHOTO COUPLER	PC123Y22J00F
JR5505	1-216-864-11	SHORT CHIP				IC LINK	
JR8000	1-216-864-11	SHORT CHIP		PS6505	1-576-288-42	IC LINK	10A 90V
JR8001	1-216-864-11	SHORT CHIP		PS6506	1-576-288-42	IC LINK	10A 90V
JR8002	1-216-864-11	SHORT CHIP		PS6550	1-576-288-42	IC LINK	10A 90V
JR8003	1-216-864-11	SHORT CHIP				TRANSISTOR	
JR8005	1-216-864-11	SHORT CHIP		Q5001	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR8006	1-216-864-11	SHORT CHIP		Q5002	8-729-600-22	TRANSISTOR	2SA1235-F
JR8007	1-216-864-11	SHORT CHIP		Q5003	8-729-027-97	TRANSISTOR	IRF19630G-LF
JR8010	1-216-864-11	SHORT CHIP		Q5004	8-729-019-57	TRANSISTOR	2SA1208S-TP
JR8011	1-216-864-11	SHORT CHIP		Q5005	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR8022	1-216-864-11	SHORT CHIP		Q5006	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR8023	1-216-864-11	SHORT CHIP		Q5007	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5008	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5009	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5010	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5011	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5012	8-729-119-80	TRANSISTOR	2SC2688-LK
				Q5013	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5014	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5018	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5019	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5020	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5021	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5022	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5023	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5024	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5025	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5026	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5027	8-729-600-22	TRANSISTOR	2SA1235-F
				Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19
				Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB
				Q5031	6-550-188-01	TRANSISTOR	2SK3579-01MR-F119
				Q5035	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5036	8-729-120-28	TRANSISTOR	2SC1623-L5L6
				Q5501	8-729-120-28	TRANSISTOR	2SC1623-L5L6
						COIL	
L5001	1-406-665-11	INDUCTOR	100 μ H				
L5003	1-406-892-31	INDUCTOR	4MH				
L5005	1-424-874-11	COIL, HORIZONTAL LINEARITY					
L5504	1-406-989-21	INDUCTOR	10MH				
L5505	1-406-989-21	INDUCTOR	10MH				
L6501	1-412-525-31	INDUCTOR	10 μ H				
L6502	1-412-525-31	INDUCTOR	10 μ H				
L6503	1-412-525-31	INDUCTOR	10 μ H				
L6505	1-406-665-11	INDUCTOR	100 μ H				
L6506	1-412-525-31	INDUCTOR	10 μ H				
L6507	1-412-525-31	INDUCTOR	10 μ H				
L6510	1-412-523-41	INDUCTOR	6.8 μ H				
L6511	1-412-523-41	INDUCTOR	6.8 μ H				
L6514	1-412-525-31	INDUCTOR	10 μ H				
L6517	1-412-521-31	INDUCTOR	4.7 μ H				
L6518	1-412-521-31	INDUCTOR	4.7 μ H				
L8002	1-428-950-31	INDUCTOR	125 μ H				
L8005	1-406-674-11	INDUCTOR	3.3MH				



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5053	1-215-890-11	METAL OXIDE	470	5%	2W	R5112	1-216-813-11	METAL CHIP	220	5%	1/10W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5113	1-260-107-11	CARBON	4.7K	5%	1/2W
R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5063	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R5118	1-216-797-11	METAL CHIP	10	5%	1/10W
R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5065	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R5124	1-216-809-11	METAL CHIP	100	5%	1/10W
R5066	1-218-746-11	METAL CHIP	180K	0.50%	1/10W	R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5072	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5126	1-216-809-11	METAL CHIP	100	5%	1/10W
R5073	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5127	1-215-890-11	METAL OXIDE	470	5%	2W
R5074	1-260-328-11	CARBON	1K	5%	1/2W	R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5130	1-216-797-11	METAL CHIP	10	5%	1/10W
R5081	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R5131	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5132	1-215-917-11	METAL OXIDE	1K	5%	3W
R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5133	1-215-917-11	METAL OXIDE	1K	5%	3W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5135	1-215-917-11	METAL OXIDE	1K	5%	3W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W	R5136	1-215-917-11	METAL OXIDE	1K	5%	3W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5090	1-216-369-00	METAL OXIDE	1	5%	2W	R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W	R5141	1-215-890-11	METAL OXIDE	470	5%	2W
R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W	R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5095	1-249-377-11	CARBON	0.47	5%	1/4W	R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W
R5096	1-249-377-11	CARBON	0.47	5%	1/4W	R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W	R5146	1-249-437-11	CARBON	47K	5%	1/4W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W	R5147	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R5148	1-215-865-11	METAL OXIDE	220	5%	1W
R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5107	1-249-393-11	CARBON	10	5%	1/4W	R5160	1-216-809-11	METAL CHIP	100	5%	1/10W
R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W	R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W	R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R5170	1-215-917-11	METAL OXIDE	1K	5%	3W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5171	1-215-917-11	METAL OXIDE	1K	5%	3W	R5546	1-216-864-11	SHORT CHIP			
R5172	1-260-288-11	CARBON	0.47	5%	1/2W	R5547	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5173	1-260-288-11	CARBON	0.47	5%	1/2W	R5548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5501	1-218-730-11	METAL CHIP	39K	0.50%	1/10W	R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5502	1-216-864-11	SHORT CHIP				R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W	R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5559	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5518	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5565	1-249-377-11	CARBON	0.47	5%	1/4W
R5519	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R5566	1-249-401-11	CARBON	47	5%	1/4W
R5520	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5567	1-216-809-11	METAL CHIP	100	5%	1/10W
R5521	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5568	1-216-853-11	METAL CHIP	470K	5%	1/10W
R5522	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5523	1-218-744-11	METAL CHIP	150K	0.50%	1/10W	R5570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5524	1-216-839-11	METAL CHIP	33K	5%	1/10W	R5571	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5525	1-216-853-11	METAL CHIP	470K	5%	1/10W	R5572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5526	1-216-853-11	METAL CHIP	470K	5%	1/10W	R5576	1-249-389-11	CARBON	4.7	5%	1/4W
R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W	R5580	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5594	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W
R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W	R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W	R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W
R5540	1-214-800-11	METAL	2.2	1%	1/2W	R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W	R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W	R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6502	1-260-131-11	CARBON	470K	5%	1/2W
R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W
R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W



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

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8001	1-216-809-11	METAL CHIP	100	5%	1/10W
R6508	1-249-393-11	CARBON	10	5%	1/4W	R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8004	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R6510	1-249-393-11	CARBON	10	5%	1/4W	R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6511	1-260-298-51	CARBON	3.3	5%	1/2W	R8006	1-245-494-31	METAL	2.2M	2%	1/4W
R6513	1-245-478-31	METAL	470K	1%	1/4W	R8007	1-245-494-31	METAL	2.2M	2%	1/4W
R6514	1-245-477-31	METAL	430K	1%	1/4W	R8010	1-216-864-11	SHORT CHIP			
R6515	1-260-131-11	CARBON	470K	5%	1/2W	R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
\triangle R6516	1-244-207-11	WIREWOUND	3.3	5%	10W	\triangle R8012	1-249-419-11	CARBON	1.5K	5%	1/4W
R6517	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W	R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W	\triangle R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R6519	1-216-864-11	SHORT CHIP				\triangle R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R6521	1-260-328-11	CARBON	1K	5%	1/2W	\triangle R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
R6524	1-216-813-11	METAL CHIP	220	5%	1/10W	\triangle R8017	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R6525	1-216-813-11	METAL CHIP	220	5%	1/10W	\triangle R8019	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W	R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	\triangle R8021	1-218-674-11	METAL CHIP	180	0.50%	1/10W
R6528	1-216-809-11	METAL CHIP	100	5%	1/10W	R8022	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W	R8024	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W	R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W	\triangle R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W	\triangle R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R6536	1-249-417-11	CARBON	1K	5%	1/4W	\triangle R8030	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W	\triangle R8031	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8032	1-216-844-11	METAL CHIP	82K	5%	1/10W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W	R8033	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W	\triangle R8035	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R6544	1-216-864-11	SHORT CHIP				\triangle R8036	1-215-415-00	METAL	560	1%	1/4W
R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	\triangle R8037	1-215-445-00	METAL	10K	1%	1/4W
R6547	1-216-864-11	SHORT CHIP				\triangle R8038	1-215-445-00	METAL	10K	1%	1/4W
R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	\triangle R8039	1-215-445-00	METAL	10K	1%	1/4W
R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W	\triangle R8040	1-215-445-00	METAL	10K	1%	1/4W
R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W	R8041	1-216-864-11	SHORT CHIP			
\triangle R6590	1-249-415-11	CARBON	680	5%	1/4W	\triangle R8043	1-215-447-00	METAL	12K	1%	1/4W
R6593	1-249-405-11	CARBON	100	5%	1/4W	\triangle R8046	1-218-696-11	METAL CHIP	1.5K	0.50%	1/10W
R6595	1-249-377-11	CARBON	0.47	5%	1/4W	R8049	1-218-668-11	METAL CHIP	100	0.50%	1/10W
R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W	R8050	1-218-656-11	METAL CHIP	33	0.50%	1/10W
R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W



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

REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>SPARK GAP</u>			
SG8002	1-517-499-21	GAP, SPARK	
<u>TRANSFORMER</u>			
T5001	1-437-669-11	TRANSFORMER, HORIZONTAL OUTPUT	
T5002	1-435-636-21	TRANSFORMER, HORIZONTAL DRIVE	
T6502	1-437-696-31	TRANSFORMER, CONVERTER	
Δ T8001	1-453-464-11	FBT ASSY, NX-6200//X4J4	
T8003	1-437-664-11	TRANSFORMER, DYNAMIC FOCUS	
<u>THERMISTOR</u>			
TH5002	1-807-796-11	THERMISTOR	
<u>HAX</u>			
*	A-1405-292-A	HAX BOARD, MOUNTED	
<u>CONNECTOR</u>			
* CN1001	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P
* CN1002	1-564-509-11	PLUG, CONNECTOR	6P
<u>RESISTOR</u>			
R1002	1-249-431-11	CARBON	15K 5% 1/4W
R1003	1-249-413-11	CARBON	470 5% 1/4W
R1004	1-249-415-11	CARBON	680 5% 1/4W
R1005	1-249-417-11	CARBON	1K 5% 1/4W
R1006	1-249-421-11	CARBON	2.2K 5% 1/4W
R1007	1-249-425-11	CARBON	4.7K 5% 1/4W
R1008	1-249-431-11	CARBON	15K 5% 1/4W
R1009	1-249-413-11	CARBON	470 5% 1/4W
R1010	1-249-415-11	CARBON	680 5% 1/4W
R1011	1-249-417-11	CARBON	1K 5% 1/4W
R1012	1-249-421-11	CARBON	2.2K 5% 1/4W
R1013	1-249-425-11	CARBON	4.7K 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>SWITCH</u>			
S1001	1-762-837-11	SWITCH, TACTILE	
S1002	1-762-837-11	SWITCH, TACTILE	
S1003	1-692-431-21	SWITCH, TACTILE	
S1004	1-762-837-11	SWITCH, TACTILE	
S1005	1-692-431-21	SWITCH, TACTILE	
S1006	1-762-837-11	SWITCH, TACTILE	
S1007	1-692-431-21	SWITCH, TACTILE	
S1008	1-762-837-11	SWITCH, TACTILE	



A-1111-236-A HB (VAR) BOARD, MOUNTED

<u>CAPACITOR</u>			
C1100	1-126-960-11	ELECT	1 μ F 20% 50V
C1101	1-126-960-11	ELECT	1 μ F 20% 50V

<u>CONNECTOR</u>			
* CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P

<u>DIODE</u>			
D1100	8-719-977-28	DIODE	DTZ10B
D1101	8-719-977-28	DIODE	DTZ10B
D1102	8-719-977-28	DIODE	DTZ10B
D1103	8-719-977-28	DIODE	DTZ10B
D1104	8-719-977-28	DIODE	DTZ10B
D1105	8-719-977-28	DIODE	DTZ10B

<u>FILTER</u>			
FL1103	1-409-755-11	FERRITE	0 μ H
FL1104	1-409-755-11	FERRITE	0 μ H

<u>JACK</u>			
J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
CHIP CONDUCTOR					IC						
JR1100	1-216-864-11	SHORT CHIP				IC1051	8-742-212-20	HYB IC	SBX3081-71		
JR1101	1-216-864-11	SHORT CHIP				RESISTOR					
JR1102	1-216-864-11	SHORT CHIP				R1052	1-249-409-11	CARBON	220	5%	1/4W
JR1103	1-216-864-11	SHORT CHIP				R1053	1-249-409-11	CARBON	220	5%	1/4W
JR1104	1-216-864-11	SHORT CHIP				R1054	1-249-433-11	CARBON	22K	5%	1/4W
JR1105	1-216-864-11	SHORT CHIP				R1055	1-249-385-11	CARBON	2.2	5%	1/4W
JR1106	1-216-864-11	SHORT CHIP				SWITCH					
JR1107	1-216-864-11	SHORT CHIP				S1052	1-692-431-21	SWITCH, TACTILE			
RESISTOR					M						
R1100	1-216-853-11	METAL CHIP	470K	5%	1/10W	A-1172-630-A M BOARD, COMPLETE					
R1101	1-216-853-11	METAL CHIP	470K	5%	1/10W	Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.					
R1102	1-218-665-11	METAL CHIP	75	0.50%	1/10W	CAPACITOR					
R1103	1-218-665-11	METAL CHIP	75	0.50%	1/10W	C2017	1-126-964-11	ELECT	10µF	20%	50V
R1104	1-216-864-11	SHORT CHIP				C2019	1-126-964-11	ELECT	10µF	20%	50V
R1105	1-216-864-11	SHORT CHIP				C2020	1-126-964-11	ELECT	10µF	20%	50V
R1106	1-216-821-11	METAL CHIP	1K	5%	1/10W	C2022	1-126-964-11	ELECT	10µF	20%	50V
R1107	1-218-665-11	METAL CHIP	75	0.50%	1/10W	C2027	1-126-964-11	ELECT	10µF	20%	50V
R1108	1-216-864-11	SHORT CHIP				C2029	1-126-964-11	ELECT	10µF	20%	50V
VARISTOR					VD1102						
VD1102	1-803-974-21	VARISTOR, CHIP	(1608)			C2038	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
HCX					A-1302-943-A HCX BOARD, COMPLETE						
*	A-1302-943-A	HCX BOARD, COMPLETE				C2039	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
CAPACITOR					C1051						
C1051	1-126-964-11	ELECT	10µF	20%	50V	C2040	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
CONNECTOR					C2041						
* CN1052	1-564-509-11	PLUG, CONNECTOR	6P			C2042	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
DIODE					C2043						
D1052	8-719-070-80	DIODE LNK	0120022G			C2044	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
					C2045						
					C2046						
					C2050						
					C2051						
					C2053						
					C2056						
					C2058						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2059	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2126	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2060	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2130	1-126-933-11	ELECT	100μF	20%	16V
C2061	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2131	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2062	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2132	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2064	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2137	1-126-964-11	ELECT	10μF	20%	50V
C2065	1-126-933-11	ELECT	100μF	20%	16V	C2138	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2066	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2139	1-126-964-11	ELECT	10μF	20%	50V
C2067	1-109-982-11	CERAMIC CHIP	1μF	10%	10V	C2140	1-126-964-11	ELECT	10μF	20%	50V
C2069	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2141	1-126-964-11	ELECT	10μF	20%	50V
C2071	1-126-963-11	ELECT	4.7μF	20%	50V	C2200	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2072	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2201	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2075	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2202	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2077	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2204	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2082	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2205	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2085	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2206	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2088	1-216-864-11	SHORT CHIP				C2207	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2089	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2208	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2090	1-216-864-11	SHORT CHIP				C2209	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2210	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2096	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2211	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2097	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2212	1-126-933-11	ELECT	100μF	20%	16V
C2098	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2213	1-126-947-11	ELECT	47μF	20%	35V
C2099	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2214	1-126-933-11	ELECT	100μF	20%	16V
C2100	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2215	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2102	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2216	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2103	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2217	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2105	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2218	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2106	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2219	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2107	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2220	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2108	1-126-933-11	ELECT	100μF	20%	16V	C2221	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2109	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2222	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2223	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C2115	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2224	1-115-156-11	CERAMIC CHIP	1μF		10V
C2116	1-126-933-11	ELECT	100μF	20%	16V	C2225	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2117	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2226	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2119	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2227	1-126-933-11	ELECT	100μF	20%	16V
C2122	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2123	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF	50V
C2124	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C2125	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2231	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2232	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2358	1-104-655-91	ELECT	470μF	20%	6.3V
C2233	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2359	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2234	1-126-933-11	ELECT	100μF	20%	16V	C2361	1-126-933-11	ELECT	100μF	20%	16V
C2235	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2362	1-126-933-11	ELECT	100μF	20%	16V
C2236	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2364	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2237	1-162-917-11	CERAMIC CHIP	15pF	5%	50V	C2366	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2238	1-126-933-11	ELECT	100μF	20%	16V	C2369	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C2239	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2370	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2240	1-126-933-11	ELECT	100μF	20%	16V	C2371	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C2241	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2372	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2242	1-126-934-11	ELECT	220μF	20%	16V	C2373	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2243	1-126-934-11	ELECT	220μF	20%	16V	C2374	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2244	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2375	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2245	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2376	1-162-963-11	CERAMIC CHIP	680pF	10%	50V
C2246	1-126-947-11	ELECT	47μF	20%	35V	C2500	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2247	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2501	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2248	1-162-975-11	CERAMIC CHIP	24pF	5%	50V	C2503	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2249	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2504	1-126-933-11	ELECT	100μF	20%	16V
C2250	1-164-360-11	CERAMIC CHIP	0.1μF		16V	C2506	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2251	1-164-392-11	CERAMIC CHIP	390pF	5%	50V	C2508	1-126-933-11	ELECT	100μF	20%	16V
C2300	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C2510	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2301	1-126-933-11	ELECT	100μF	20%	16V	C2512	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2302	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2513	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2305	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2514	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2306	1-162-920-11	CERAMIC CHIP	27pF	5%	50V	C2515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2307	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2516	1-126-933-11	ELECT	100μF	20%	16V
C2308	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2517	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2309	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2518	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C2310	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2519	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2311	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2520	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2313	1-115-156-11	CERAMIC CHIP	1μF		10V	C2521	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C2315	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2522	1-126-947-11	ELECT	47μF	20%	35V
C2317	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2523	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2318	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2524	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2319	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2525	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2349	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	C2527	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2352	1-126-933-11	ELECT	100μF	20%	16V	C2528	1-162-962-11	CERAMIC CHIP	470pF	10%	50V
C2353	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2530	1-126-947-11	ELECT	47μF	20%	35V
C2354	1-162-907-11	CERAMIC CHIP	2pF	0.25pF	50V	C2532	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V
C2355	1-164-245-11	CERAMIC CHIP	0.015μF	10%	25V	C2533	1-162-960-11	CERAMIC CHIP	220pF	10%	50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2534	1-126-947-11	ELECT	47μF	20%	35V	C2590	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C2535	1-162-962-11	CERAMIC CHIP	470pF	10%	50V	C2591	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C2536	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V	C2592	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C2538	1-126-947-11	ELECT	47μF	20%	35V						
C2539	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
								CONNECTOR			
C2540	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	CN2006	1-793-174-11	SOCKET,PC CONNECTOR (PC BOARD)			
C2541	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V	* CN2301	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)		10P	
C2542	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	CN2303	1-784-650-21	CONNECTOR		2P	
C2543	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	* CN2304	1-564-595-11	PLUG, CONNECTOR		14P	
C2544	1-126-963-11	ELECT	4.7μF	20%	50V	CN2305	1-770-721-11	CONNECTOR, BOARD TO BOARD		4P	
C2545	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	* CN2306	1-818-480-12	PIN, CONNECTOR		12P	
C2546	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	CN2307	1-785-946-21	CONNECTOR		3P	
C2548	1-126-947-11	ELECT	47μF	20%	35V	* CN2308	1-564-507-11	PLUG, CONNECTOR		4P	
C2549	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V						
C2550	1-126-963-11	ELECT	4.7μF	20%	50V			DIODE			
C2551	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	D2310	8-719-083-57	DIODE		UDZSTE-173.6B	
C2553	1-126-947-11	ELECT	47μF	20%	35V	D2500	8-719-404-50	DIODE		MA111-TX	
C2554	1-126-947-11	ELECT	47μF	20%	35V	D2501	8-719-404-50	DIODE		MA111-TX	
C2558	1-126-963-11	ELECT	4.7μF	20%	50V	D2502	8-719-404-50	DIODE		MA111-TX	
C2559	1-126-933-11	ELECT	100μF	20%	16V	D2503	8-719-404-50	DIODE		MA111-TX	
C2560	1-126-947-11	ELECT	47μF	20%	35V	D2504	8-719-404-50	DIODE		MA111-TX	
C2561	1-126-963-11	ELECT	4.7μF	20%	50V	D2505	8-719-978-33	DIODE		DTZ-TT11-6.8B	
C2563	1-126-961-11	ELECT	2.2μF	20%	50V	D2506	8-719-978-33	DIODE		DTZ-TT11-6.8B	
C2564	1-126-961-11	ELECT	2.2μF	20%	50V	D2507	8-719-404-50	DIODE		MA111-TX	
C2565	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V						
C2566	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V			FERRITE BEAD			
C2569	1-126-961-11	ELECT	2.2μF	20%	50V	FB2200	1-414-229-11	FERRITE		0μH	
C2570	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2501	1-216-864-11	SHORT CHIP			
C2571	1-164-156-11	CERAMIC CHIP	0.1μF		25V	FB2503	1-216-864-11	SHORT CHIP			
C2572	1-126-960-11	ELECT	1μF	20%	50V	FB2504	1-216-864-11	SHORT CHIP			
C2574	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	FB2505	1-414-229-11	FERRITE		0μH	
C2575	1-126-960-11	ELECT	1μF	20%	50V	FB2507	1-414-229-11	FERRITE		0μH	
C2579	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB2508	1-414-229-11	FERRITE		0μH	
C2582	1-126-933-11	ELECT	100μF	20%	16V	FB2509	1-216-864-11	SHORT CHIP			
C2584	1-126-933-11	ELECT	100μF	20%	16V	FB2510	1-414-229-11	FERRITE		0μH	
C2585	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V	FB2511	1-216-864-11	SHORT CHIP			
C2586	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	FB2512	1-414-229-11	FERRITE		0μH	
C2587	1-135-834-91	CERAMIC CHIP	2.2E+06pF		6.3V	FB2513	1-216-864-11	SHORT CHIP			
C2588	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	FB2514	1-216-864-11	SHORT CHIP			
C2589	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	FB2515	1-414-229-11	FERRITE		0μH	
						FB2516	1-414-229-11	FERRITE		0μH	



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
FB2517	1-414-229-11	FERRITE	0μH	JR2011	1-216-809-11	METAL CHIP	100 5% 1/10W
FB2518	1-414-229-11	FERRITE	0μH	JR2012	1-216-864-11	SHORT CHIP	
FB2519	1-414-229-11	FERRITE	0μH	JR2013	1-216-809-11	METAL CHIP	100 5% 1/10W
FB2520	1-216-864-11	SHORT CHIP		JR2014	1-216-864-11	SHORT CHIP	
FB2521	1-216-864-11	SHORT CHIP		JR2015	1-216-809-11	METAL CHIP	100 5% 1/10W
FB2522	1-414-229-11	FERRITE	0μH	COIL			
FB2531	1-216-864-11	SHORT CHIP		L2002	1-469-555-21	INDUCTOR	10μH
FB2533	1-216-864-11	SHORT CHIP		L2005	1-469-555-21	INDUCTOR	10μH
FB2534	1-216-864-11	SHORT CHIP		L2007	1-469-555-21	INDUCTOR	10μH
FB2535	1-216-864-11	SHORT CHIP		L2009	1-469-555-21	INDUCTOR	10μH
FB2538	1-216-864-11	SHORT CHIP		L2011	1-469-555-21	INDUCTOR	10μH
FILTER				L2012	1-469-555-21	INDUCTOR	10μH
FL2201	1-239-848-11	FILTER, LOW PASS		L2013	1-469-555-21	INDUCTOR	10μH
FL2202	1-239-848-11	FILTER, LOW PASS		L2200	1-469-555-21	INDUCTOR	10μH
FL2203	1-239-848-11	FILTER, LOW PASS		L2201	1-469-555-21	INDUCTOR	10μH
FL2204	1-239-848-11	FILTER, LOW PASS		L2202	1-469-555-21	INDUCTOR	10μH
IC				L2203	1-216-001-00	RES-CHIP	10 5% 1/10W
IC2004	8-752-102-21	IC	CXA2103AQ	L2204	1-469-555-21	INDUCTOR	10μH
IC2006	8-752-108-35	IC	CXA2171AQ	L2205	1-216-001-00	RES-CHIP	10 5% 1/10W
IC2007	8-759-592-49	IC	TC7SZ125FU(TE85R)	L2206	1-469-555-21	INDUCTOR	10μH
IC2010	8-759-549-07	IC	SN74LV157APWR	L2207	1-469-553-21	INDUCTOR	4.7μH
IC2200	6-700-960-01	IC	UPD64083GF-3BA	L2501	1-412-537-31	INDUCTOR	100μH
IC2201	6-700-399-01	IC	UPC2925T-E1	L2502	1-216-295-91	SHORT CHIP	
IC2202	8-759-448-68	IC	NJM2283V-TE1	TRANSISTOR			
IC2300	6-806-474-01	IC	M306V7MG-148FPU0	Q2001	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC2301	6-801-375-01	IC	PST9129NL	Q2003	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC2302	6-704-573-01	IC	M24C32-WMN6T(B)	Q2004	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC2305	8-759-641-26	IC	NJM2391DL1-33(TE1)	Q2009	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC2500	8-759-394-57	IC	PST593C-MMP-4P	Q2011	8-729-600-22	TRANSISTOR	2SA1235-F
IC2501	6-801-750-01	IC	TC94A04FG-014	Q2012	8-729-600-22	TRANSISTOR	2SA1235-F
IC2502	8-759-331-71	IC	NJM4558E(TE2)	Q2013	8-729-600-22	TRANSISTOR	2SA1235-F
CHIP CONDUCTOR				Q2015	8-729-600-22	TRANSISTOR	2SA1235-F
JR6	1-216-864-11	SHORT CHIP		Q2016	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR7	1-216-864-11	SHORT CHIP		Q2017	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR8	1-216-864-11	SHORT CHIP		Q2018	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR9	1-216-864-11	SHORT CHIP		Q2019	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR2010	1-216-864-11	SHORT CHIP		Q2200	8-729-600-22	TRANSISTOR	2SA1235-F
				Q2201	8-729-600-22	TRANSISTOR	2SA1235-F
				Q2202	8-729-120-28	TRANSISTOR	2SC1623-L5L6



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
Q2203	8-729-600-22	TRANSISTOR	2SA1235-F	R2042	1-216-864-11	SHORT CHIP	
Q2204	8-729-600-22	TRANSISTOR	2SA1235-F	R2043	1-216-864-11	SHORT CHIP	
Q2205	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2044	1-216-864-11	SHORT CHIP	
Q2206	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2047	1-216-864-11	SHORT CHIP	
Q2207	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2052	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q2208	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2053	1-216-864-11	SHORT CHIP	
Q2209	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2055	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2210	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2056	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2211	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2057	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2212	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2061	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
Q2213	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2067	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2214	8-729-600-22	TRANSISTOR	2SA1235-F	R2069	1-216-864-11	SHORT CHIP	
Q2215	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2072	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q2216	8-729-600-22	TRANSISTOR	2SA1235-F	R2073	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q2302	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2074	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2303	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2076	1-216-864-11	SHORT CHIP	
Q2304	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2077	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2312	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2081	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2313	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2082	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2314	8-729-600-22	TRANSISTOR	2SA1235-F	R2083	1-216-851-11	METAL CHIP	330K 5% 1/10W
Q2315	8-729-600-22	TRANSISTOR	2SA1235-F	R2084	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2316	8-729-600-22	TRANSISTOR	2SA1235-F	R2085	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q2322	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2086	1-216-818-11	METAL CHIP	560 5% 1/10W
Q2324	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2087	1-216-818-11	METAL CHIP	560 5% 1/10W
Q2500	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2088	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2090	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q2502	8-729-600-22	TRANSISTOR	2SA1235-F	R2091	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2503	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2092	1-216-818-11	METAL CHIP	560 5% 1/10W
Q2504	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2093	1-216-818-11	METAL CHIP	560 5% 1/10W
Q2505	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2094	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
Q2506	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2095	1-216-864-11	SHORT CHIP	
Q2507	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2097	1-216-805-11	METAL CHIP	47 5% 1/10W
Q2508	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2101	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q2509	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2103	1-216-805-11	METAL CHIP	47 5% 1/10W
Q2510	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2105	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2600	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R2107	1-216-805-11	METAL CHIP	47 5% 1/10W
				R2110	1-216-818-11	METAL CHIP	560 5% 1/10W
				R2111	1-216-818-11	METAL CHIP	560 5% 1/10W
				R2118	1-216-809-11	METAL CHIP	100 5% 1/10W
				R2119	1-216-809-11	METAL CHIP	100 5% 1/10W
	RESISTOR						
R2036	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R2037	1-216-864-11	SHORT CHIP					
R2038	1-216-864-11	SHORT CHIP					
R2039	1-216-864-11	SHORT CHIP					
R2041	1-216-837-11	METAL CHIP	22K 5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2120	1-216-809-11	METAL CHIP	100	5%	1/10W	R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2121	1-216-809-11	METAL CHIP	100	5%	1/10W	R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2123	1-216-815-11	METAL CHIP	330	5%	1/10W	R2224	1-216-809-11	METAL CHIP	100	5%	1/10W
R2124	1-216-815-11	METAL CHIP	330	5%	1/10W	R2225	1-216-818-11	METAL CHIP	560	5%	1/10W
R2125	1-216-815-11	METAL CHIP	330	5%	1/10W	R2226	1-216-817-11	METAL CHIP	470	5%	1/10W
R2126	1-216-809-11	METAL CHIP	100	5%	1/10W	R2227	1-216-816-11	METAL CHIP	390	5%	1/10W
R2127	1-216-864-11	SHORT CHIP				R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2131	1-216-809-11	METAL CHIP	100	5%	1/10W	R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W
R2133	1-216-864-11	SHORT CHIP				R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2134	1-216-864-11	SHORT CHIP				R2231	1-216-819-11	METAL CHIP	680	5%	1/10W
R2135	1-216-864-11	SHORT CHIP				R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2136	1-216-864-11	SHORT CHIP				R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2137	1-216-864-11	SHORT CHIP				R2234	1-216-820-11	METAL CHIP	820	5%	1/10W
R2138	1-216-864-11	SHORT CHIP				R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2139	1-216-864-11	SHORT CHIP				R2236	1-216-813-11	METAL CHIP	220	5%	1/10W
R2140	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2237	1-216-820-11	METAL CHIP	820	5%	1/10W
R2141	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2238	1-216-819-11	METAL CHIP	680	5%	1/10W
R2142	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2143	1-216-864-11	SHORT CHIP				R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2202	1-216-809-11	METAL CHIP	100	5%	1/10W	R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W
R2203	1-216-809-11	METAL CHIP	100	5%	1/10W	R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W
R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2205	1-216-864-11	SHORT CHIP				R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R2206	1-216-864-11	SHORT CHIP				R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2207	1-216-809-11	METAL CHIP	100	5%	1/10W	R2247	1-216-805-11	METAL CHIP	47	5%	1/10W
R2208	1-216-809-11	METAL CHIP	100	5%	1/10W	R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2249	1-216-805-11	METAL CHIP	47	5%	1/10W
R2210	1-216-818-11	METAL CHIP	560	5%	1/10W	R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2251	1-216-818-11	METAL CHIP	560	5%	1/10W
R2212	1-216-818-11	METAL CHIP	560	5%	1/10W	R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2253	1-216-809-11	METAL CHIP	100	5%	1/10W
R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2254	1-216-817-11	METAL CHIP	470	5%	1/10W
R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2255	1-216-817-11	METAL CHIP	470	5%	1/10W
R2216	1-216-817-11	METAL CHIP	470	5%	1/10W	R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2217	1-216-817-11	METAL CHIP	470	5%	1/10W	R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2268	1-216-809-11	METAL CHIP	100	5%	1/10W
R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2269	1-216-809-11	METAL CHIP	100	5%	1/10W
R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2270	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2271	1-218-665-11	METAL CHIP	75	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2272	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2345	1-216-809-11	METAL CHIP	100	5%	1/10W
R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2301	1-216-809-11	METAL CHIP	100	5%	1/10W	R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2302	1-216-809-11	METAL CHIP	100	5%	1/10W	R2349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2303	1-216-809-11	METAL CHIP	100	5%	1/10W	R2350	1-216-809-11	METAL CHIP	100	5%	1/10W
R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2353	1-216-809-11	METAL CHIP	100	5%	1/10W
R2307	1-216-809-11	METAL CHIP	100	5%	1/10W	R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2308	1-216-809-11	METAL CHIP	100	5%	1/10W	R2355	1-216-809-11	METAL CHIP	100	5%	1/10W
R2309	1-216-809-11	METAL CHIP	100	5%	1/10W	R2356	1-216-805-11	METAL CHIP	47	5%	1/10W
R2310	1-216-864-11	SHORT CHIP				R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2311	1-216-809-11	METAL CHIP	100	5%	1/10W	R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2312	1-216-809-11	METAL CHIP	100	5%	1/10W	R2359	1-216-805-11	METAL CHIP	47	5%	1/10W
R2313	1-216-809-11	METAL CHIP	100	5%	1/10W	R2360	1-216-809-11	METAL CHIP	100	5%	1/10W
R2314	1-216-809-11	METAL CHIP	100	5%	1/10W	R2361	1-216-864-11	SHORT CHIP			
R2315	1-216-809-11	METAL CHIP	100	5%	1/10W	R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2316	1-216-809-11	METAL CHIP	100	5%	1/10W	R2364	1-216-809-11	METAL CHIP	100	5%	1/10W
R2317	1-216-809-11	METAL CHIP	100	5%	1/10W	R2365	1-216-809-11	METAL CHIP	100	5%	1/10W
R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2366	1-216-864-11	SHORT CHIP			
R2319	1-216-809-11	METAL CHIP	100	5%	1/10W	R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2321	1-216-809-11	METAL CHIP	100	5%	1/10W	R2368	1-216-809-11	METAL CHIP	100	5%	1/10W
R2322	1-216-809-11	METAL CHIP	100	5%	1/10W	R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2371	1-216-809-11	METAL CHIP	100	5%	1/10W
R2324	1-216-809-11	METAL CHIP	100	5%	1/10W	R2372	1-216-809-11	METAL CHIP	100	5%	1/10W
R2325	1-216-864-11	SHORT CHIP				R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2326	1-216-809-11	METAL CHIP	100	5%	1/10W	R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2327	1-216-809-11	METAL CHIP	100	5%	1/10W	R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2328	1-216-809-11	METAL CHIP	100	5%	1/10W	R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2333	1-216-809-11	METAL CHIP	100	5%	1/10W	R2380	1-216-809-11	METAL CHIP	100	5%	1/10W
R2336	1-216-809-11	METAL CHIP	100	5%	1/10W	R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2337	1-216-809-11	METAL CHIP	100	5%	1/10W	R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2338	1-216-864-11	SHORT CHIP				R2387	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2339	1-216-809-11	METAL CHIP	100	5%	1/10W	R2404	1-216-864-11	SHORT CHIP			
R2340	1-216-809-11	METAL CHIP	100	5%	1/10W	R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2341	1-216-809-11	METAL CHIP	100	5%	1/10W	R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2460	1-216-809-11	METAL CHIP	100	5%	1/10W	R2529	1-216-809-11	METAL CHIP	100	5%	1/10W
R2469	1-216-809-11	METAL CHIP	100	5%	1/10W	R2530	1-216-809-11	METAL CHIP	100	5%	1/10W
R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2533	1-216-864-11	SHORT CHIP			
R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2540	1-216-864-11	SHORT CHIP			
R2489	1-216-817-11	METAL CHIP	470	5%	1/10W	R2541	1-216-864-11	SHORT CHIP			
R2490	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2543	1-216-864-11	SHORT CHIP			
R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2546	1-216-813-11	METAL CHIP	220	5%	1/10W
R2500	1-216-809-11	METAL CHIP	100	5%	1/10W	R2547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2502	1-216-864-11	SHORT CHIP				R2549	1-216-813-11	METAL CHIP	220	5%	1/10W
R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2552	1-216-809-11	METAL CHIP	100	5%	1/10W
R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2554	1-216-809-11	METAL CHIP	100	5%	1/10W
R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W
R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2520	1-216-864-11	SHORT CHIP				R2564	1-216-817-11	METAL CHIP	470	5%	1/10W
R2521	1-216-864-11	SHORT CHIP				R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2523	1-216-813-11	METAL CHIP	220	5%	1/10W	R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2524	1-216-809-11	METAL CHIP	100	5%	1/10W	R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2525	1-216-813-11	METAL CHIP	220	5%	1/10W	R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2526	1-216-864-11	SHORT CHIP				R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2528	1-216-809-11	METAL CHIP	100	5%	1/10W	R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
C9561	1-100-756-91	CERAMIC CHIP	0.047μF		50V	DIODE			
C9562	1-127-692-11	CERAMIC CHIP	10μF	10%	16V	D9500	8-719-210-39	DIODE	EC10QS-04
C9563	1-126-394-11	ELECT CHIP	10μF	20%	16V	D9501	6-500-294-01	DIODE	PTZ-TE25-3.9B
C9566	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	D9502	8-719-977-28	DIODE	DTZ10B
C9570	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	D9503	8-719-977-28	DIODE	DTZ10B
C9571	1-126-394-11	ELECT CHIP	10μF	20%	16V	D9506	8-719-404-50	DIODE	MA111-TX
C9575	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	D9507	8-719-404-50	DIODE	MA111-TX
C9576	1-126-394-11	ELECT CHIP	10μF	20%	16V	FERRITE BEAD			
C9578	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	FB9504	1-414-235-22	FERRITE	0μH
C9579	1-162-916-11	CERAMIC CHIP	12pF	5%	50V	FB9505	1-414-235-22	FERRITE	0μH
C9583	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	FB9506	1-414-235-22	FERRITE	0μH
C9584	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FB9507	1-414-235-22	FERRITE	0μH
C9585	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FB9508	1-414-235-22	FERRITE	0μH
C9586	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FB9509	1-414-235-22	FERRITE	0μH
C9587	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FB9510	1-414-235-22	FERRITE	0μH
C9588	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FB9512	1-414-235-22	FERRITE	0μH
C9589	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	FILTER			
C9623	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	* FL9501	1-813-308-11	INDUCTOR	0μH
C9824	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	* FL9504	1-813-308-11	INDUCTOR	0μH
C9825	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	* FL9505	1-813-308-11	INDUCTOR	0μH
C9826	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	* FL9506	1-813-308-11	INDUCTOR	0μH
C9828	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC			
C9830	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	IC9500	6-706-257-01	IC	FMS6418AM16X
C9831	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC9502	6-704-819-01	IC	CS4335-KSZR
C9832	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC9503	6-704-407-01	IC	PQ1CZ41H2ZPH
C9833	1-100-566-91	CERAMIC CHIP	0.1μF	10%	25V	IC9504	6-704-001-01	IC	BR24L02F-WE2
C9835	1-100-588-21	ELECT CHIP	1000μF	20%	6.3V	IC9505	6-704-499-01	IC	SII9993CTG100
C9836	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC9506	6-703-042-01	IC	CD4052BNSR
C9839	1-126-394-11	ELECT CHIP	10μF	20%	16V	IC9509	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)
C9841	1-100-118-21	ELECT CHIP	82μF	20%	16V	IC9514	8-759-331-71	IC	NJM4558E(TE2)
C9842	1-137-897-21	ELECT CHIP	150μF	20%	4V	IC9517	6-805-691-01	IC	MB89965CpFV1-G-125E1
C9843	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	IC9521	8-759-642-22	IC	UPC29M05T-E2
CONNECTOR						JACK			
* CN9500	1-818-400-11	HDMI CONNECTOR				J9503	1-794-623-11	JACK, PIN	2P
CN9504	1-564-593-11	PLUG, CONNECTOR		14P					



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
<u>COIL</u>						R9529	1-216-850-11	METAL CHIP	270K	5%	1/10W
L9501	1-416-948-21	INDUCTOR	10μH			R9530	1-216-821-11	METAL CHIP	1K	5%	1/10W
L9502	1-400-303-21	INDUCTOR	68μH			R9531	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
<u>IC LINK</u>						R9532	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
PS9500	1-576-415-21	FUSE	2A	32V		R9533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
<u>TRANSISTOR</u>						R9534	1-218-686-11	METAL CHIP	560	0.50%	1/10W
Q9501	8-729-024-88	TRANSISTOR	MUN2212T1			R9535	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q9502	8-729-421-22	TRANSISTOR	UN2211			R9538	1-218-823-11	METAL CHIP	100	0.50%	1/10W
Q9503	8-729-027-62	TRANSISTOR	DTC144WKA-T146			R9539	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q9506	8-729-024-88	TRANSISTOR	MUN2212T1			R9540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q9511	8-729-421-22	TRANSISTOR	UN2211			R9541	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W
Q9514	8-729-027-62	TRANSISTOR	DTC144WKA-T146			R9542	1-216-850-11	METAL CHIP	270K	5%	1/10W
Q9516	8-729-421-22	TRANSISTOR	UN2211			R9543	1-218-686-11	METAL CHIP	560	0.50%	1/10W
Q9517	8-729-421-22	TRANSISTOR	UN2211			R9544	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
<u>RESISTOR</u>						R9546	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9501	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9547	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9502	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9548	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9505	1-216-841-11	METAL CHIP	47K	5%	1/10W	R9552	1-216-817-11	METAL CHIP	470	5%	1/10W
R9506	1-216-864-11	SHORT CHIP				R9555	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9507	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9508	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9557	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9509	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9558	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R9510	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9559	1-216-809-11	METAL CHIP	100	5%	1/10W
R9511	1-216-803-11	METAL CHIP	33	5%	1/10W	R9560	1-216-864-11	SHORT CHIP			
R9512	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9562	1-216-809-11	METAL CHIP	100	5%	1/10W
R9513	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9563	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9514	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9564	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9515	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9516	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9566	1-216-864-11	SHORT CHIP			
R9517	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9518	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9572	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9519	1-216-803-11	METAL CHIP	33	5%	1/10W	R9574	1-216-809-11	METAL CHIP	100	5%	1/10W
R9520	1-216-816-11	METAL CHIP	390	5%	1/10W	R9575	1-216-809-11	METAL CHIP	100	5%	1/10W
R9526	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R9576	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9528	1-216-837-11	METAL CHIP	22K	5%	1/10W	R9577	1-216-857-11	METAL CHIP	1M	5%	1/10W
						R9580	1-216-809-11	METAL CHIP	100	5%	1/10W
						R9581	1-216-809-11	METAL CHIP	100	5%	1/10W
						R9582	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R9584	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R9585	1-216-809-11	METAL CHIP	100	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
R1626	1-218-676-11	METAL CHIP	220 0.50% 1/10W	 * A-1415-602-A WY (VAR) BOARD, MOUNTED 4-382-854-01 SCREW (M3X8), P, SW (+)			
R1627	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1628	1-216-853-11	METAL CHIP	470K 5% 1/10W				
R1629	1-216-853-11	METAL CHIP	470K 5% 1/10W				
R1630	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1631	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1632	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1635	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1636	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1637	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1645	1-216-809-11	METAL CHIP	100 5% 1/10W				
R1646	1-216-803-11	METAL CHIP	33 5% 1/10W				
R1647	1-216-803-11	METAL CHIP	33 5% 1/10W				
R1648	1-216-803-11	METAL CHIP	33 5% 1/10W				
R1649	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1650	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1651	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1652	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1653	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1654	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1655	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1656	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1657	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1658	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1659	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1660	1-218-676-11	METAL CHIP	220 0.50% 1/10W				
R1670	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1671	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1672	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R1673	1-216-807-11	METAL CHIP	68 5% 1/10W				
R1674	1-216-813-11	METAL CHIP	220 5% 1/10W				
R1675	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R1676	1-216-864-11	SHORT CHIP					
R1677	1-216-864-11	SHORT CHIP					
<u>VARISTOR</u>							
VD1512	1-803-974-21	VARISTOR, CHIP	(1608)				
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)				
				<u>CAPACITOR</u>			
C9101	1-104-999-11	MYLAR	0.1μF 5% 200V				
C9104	1-126-933-11	ELECT	100μF 20% 16V				
C9105	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V				
C9106	1-164-156-11	CERAMIC CHIP	0.1μF 25V				
C9108	1-107-662-11	ELECT	22μF 20% 350V				
C9109	1-161-830-00	CERAMIC	0.0047μF 500V				
C9110	1-164-156-11	CERAMIC CHIP	0.1μF 25V				
C9111	1-126-964-11	ELECT	10μF 20% 50V				
C9112	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V				
C9113	1-137-528-11	MYLAR	0.1μF 10% 250V				
C9114	1-107-636-11	ELECT	10μF 20% 160V				
C9115	1-137-528-11	MYLAR	0.1μF 10% 250V				
C9116	1-164-156-11	CERAMIC CHIP	0.1μF 25V				
C9117	1-117-450-11	MYLAR	0.47μF 10% 250V				
C9118	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V				
C9120	1-130-495-00	MYLAR	0.1μF 5% 50V				
C9121	1-126-947-11	ELECT	47μF 20% 35V				
C9125	1-130-495-00	MYLAR	0.1μF 5% 50V				
C9126	1-126-947-11	ELECT	47μF 20% 35V				
C9127	1-130-495-00	MYLAR	0.1μF 5% 50V				
C9128	1-162-970-11	CERAMIC CHIP	0.01μF 10% 25V				
C9129	1-136-177-00	FILM	1μF 5% 50V				
C9144	1-162-927-11	CERAMIC CHIP	100pF 5% 50V				
				<u>CONNECTOR</u>			
* CN9100	1-564-515-11	PLUG, CONNECTOR	12P				
* CN9101	1-564-506-11	PLUG, CONNECTOR	3P				
* CN9102	1-564-509-11	PLUG, CONNECTOR	6P				
* CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD	12P				
* CN9104	1-564-506-11	PLUG, CONNECTOR	3P				



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>FERRITE BEAD</u>				R9111	1-216-805-11	METAL CHIP	47 5% 1/10W
FB9100	1-410-397-21	FERRITE	1.1μH	R9112	1-249-389-11	CARBON	4.7 5% 1/4W
FB9101	1-410-397-21	FERRITE	1.1μH	R9113	1-249-389-11	CARBON	4.7 5% 1/4W
<u>IC</u>				R9114	1-249-389-11	CARBON	4.7 5% 1/4W
IC9100	8-759-822-38	IC	LA6510	R9115	1-249-389-11	CARBON	4.7 5% 1/4W
<u>COIL</u>				R9116	1-249-389-11	CARBON	4.7 5% 1/4W
L9100	1-412-525-31	INDUCTOR	10μH	R9117	1-249-389-11	CARBON	4.7 5% 1/4W
<u>TRANSISTOR</u>				R9118	1-249-389-11	CARBON	4.7 5% 1/4W
Q9100	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9119	1-249-389-11	CARBON	4.7 5% 1/4W
Q9101	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9120	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
Q9102	8-729-600-22	TRANSISTOR	2SA1235-F	R9121	1-216-848-11	METAL CHIP	180K 5% 1/10W
Q9103	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9122	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q9104	8-729-600-22	TRANSISTOR	2SA1235-F	R9123	1-216-848-11	METAL CHIP	180K 5% 1/10W
Q9105	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9124	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q9106	8-729-600-22	TRANSISTOR	2SA1235-F	R9125	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
Q9107	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9126	1-216-805-11	METAL CHIP	47 5% 1/10W
Q9108	8-729-600-22	TRANSISTOR	2SA1235-F	R9127	1-216-805-11	METAL CHIP	47 5% 1/10W
Q9109	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9128	1-215-888-00	METAL OXIDE	220 5% 2W
Q9110	8-729-045-04	TRANSISTOR	2SC5511	R9130	1-218-700-11	METAL CHIP	2.2K 0.50% 1/10W
Q9111	8-729-045-05	TRANSISTOR	2SA2005	R9131	1-218-730-11	METAL CHIP	39K 0.50% 1/10W
Q9112	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9132	1-218-713-11	METAL CHIP	7.5K 0.50% 1/10W
Q9122	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9133	1-249-391-11	CARBON	6.8 5% 1/4W
Q9123	8-729-600-22	TRANSISTOR	2SA1235-F	R9134	1-249-383-11	CARBON	1.5 5% 1/4W
Q9124	8-729-600-22	TRANSISTOR	2SA1235-F	R9135	1-218-692-11	METAL CHIP	1K 0.50% 1/10W
<u>RESISTOR</u>				R9138	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
R9101	1-216-805-11	METAL CHIP	47 5% 1/10W	R9139	1-218-692-11	METAL CHIP	1K 0.50% 1/10W
R9102	1-260-322-11	CARBON	330 5% 1/2W	R9140	1-216-864-11	SHORT CHIP	
R9103	1-216-819-11	METAL CHIP	680 5% 1/10W	R9141	1-214-657-11	METAL	1 1% 1/4W
R9104	1-216-820-11	METAL CHIP	820 5% 1/10W	R9142	1-214-657-11	METAL	1 1% 1/4W
R9105	1-216-837-11	METAL CHIP	22K 5% 1/10W	R9143	1-216-429-00	METAL OXIDE	270 5% 1W
R9106	1-218-715-11	METAL CHIP	9.1K 0.50% 1/10W	R9144	1-215-867-00	METAL OXIDE	470 5% 1W
R9107	1-216-809-11	METAL CHIP	100 5% 1/10W	R9145	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
R9108	1-216-817-11	METAL CHIP	470 5% 1/10W	R9150	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
R9109	1-216-817-11	METAL CHIP	470 5% 1/10W	R9187	1-249-389-11	CARBON	4.7 5% 1/4W
R9110	1-216-805-11	METAL CHIP	47 5% 1/10W	R9188	1-249-389-11	CARBON	4.7 5% 1/4W
				R9189	1-249-389-11	CARBON	4.7 5% 1/4W
				R9190	1-249-389-11	CARBON	4.7 5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>MISCELLANEOUS</u>							
	7-685-872-01	SCREW +BVTT 3X8 (S) (HDMI CONNECTOR)					
<u>PACKING AND ACCESSORIES</u>							
*	2-657-860-01	BAG, PROTECTION					
*	2-671-221-01	CARTON, INDIVIDUAL					
*	4-102-097-01	CUSHION, (FRONT) UPPER					
*	4-102-098-01	CUSHION, (REAR) UPPER					
*	4-102-099-01	CUSHION, LOWER					
	2-674-642-21	GUIDE, QUICK SET UP					
	2-671-222-21	MANUAL, INSTRUCTION					
*	4-041-423-11	SHEET, PROTECTION					
<u>REMOTE COMMANDER</u>							
	1-479-713-11	REMOTE COMMANDER (RM-YD007)					
	4-978-977-01	LID, BATTERY CASE (for RM-YD007)					

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Service_Promotion@am.sony.com.