

SERVICE MANUAL

DA-4 CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>	<u>CHASSIS NO.</u>
KD-30XS955	RM-Y199	US	SCC-S66Y-A
KD-30XS955	RM-Y199	HAWAII	SCC-S69P-A
KD-34XS955	RM-Y199	US	SCC-S76A-A
KD-34XS955	RM-Y199	CANADA	SCC-S70W-A
KD-34XS955	RM-Y199	HAWAII	SCC-S69Q-A

This manual is for units starting with the following S/N's:

For KD-30XS955 - S/N 4,500,001 to 4,999,999

For KD-34XS955 - S/N 4,500,001 to 4,999,999 and 9,500,001 and up



KD-34XS955



RM-Y199

TRINITRON® COLOR TELEVISION

SONY®

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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)

4 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)

7 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
Optical Rectangular

CableCARD Slot

PCMCIA Type I/II

	KD-30XS955	KD-34XS955
Speaker Output (W)	7.5 W x 2 15W Subwoofer	
Power Consumption (W)		
In Use (Max)	220 W	250 W
In Standby	3 W	3 W
In CableCARD Standby	20 W	20 W
Dimensions (W x H x D)		
mm	898 x 604 x 564.5 mm	994 x 654 x 604 mm
in	35 ³ / ₈ x 23 ³ / ₄ x 22 ¹ / ₄ in	39 ¹ / ₈ x 25 ³ / ₄ x 23 ³ / ₄ in
Mass		
kg	67 kg	93 kg
lbs	148 lbs	205 lbs

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Television system

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

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

30-inch picture measured diagonally (KD-30XS955)
34-inch picture measured diagonally (KD-34XS955)

Actual screen size

32-inch measured diagonally (KD-30XS955)
36-inch measured diagonally (KD-34XS955)

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y199
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-30HX1 (KD-30XS955)
SU-34HX1 (KD-34XS955)

WARNINGS AND CAUTIONS


CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

SAFETY-RELATED COMPONENT WARNING!!


Components identified by shading and  mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

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

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

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

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

SAFETY CHECK-OUT

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

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

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

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

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

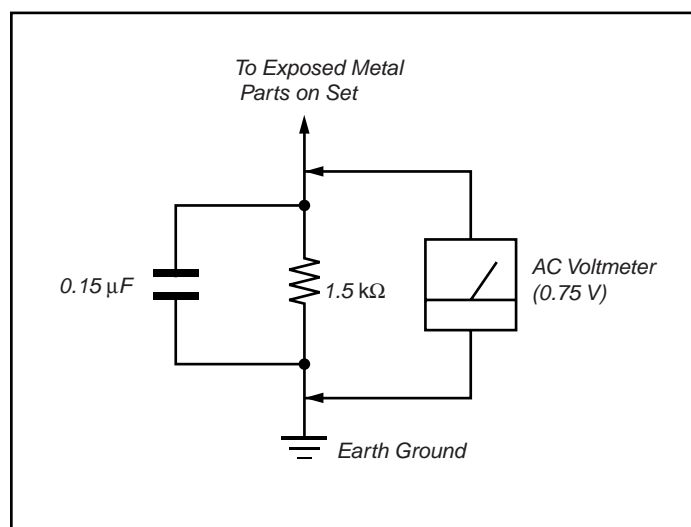


Figure A. Using an AC voltmeter to check AC leakage.

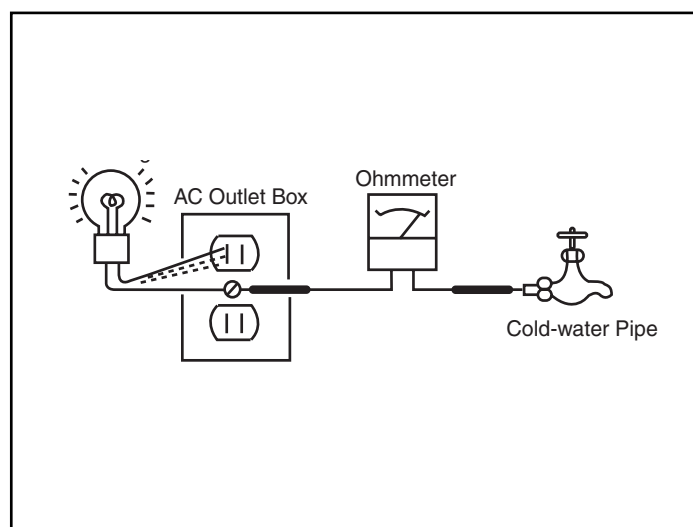


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



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.

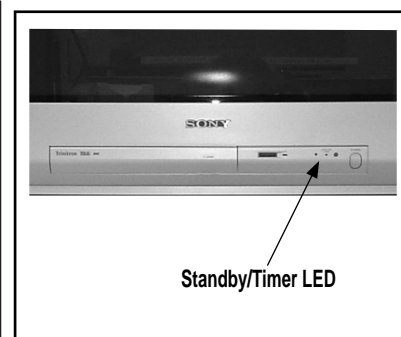
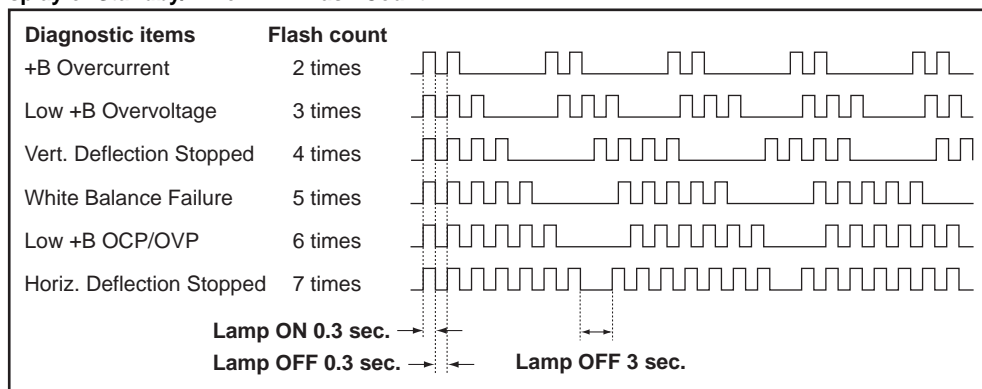
Diagnostic Item	No. of times STANDBY / TIMER lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	-----	<ul style="list-style-type: none"> Power cord is not plugged in. Fuse is burned out (F501). (A Board) 	<ul style="list-style-type: none"> Power 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. (CX 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.

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	

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

Handling of Self-Diagnostic Screen Display

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

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

Clearing the Result Display

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

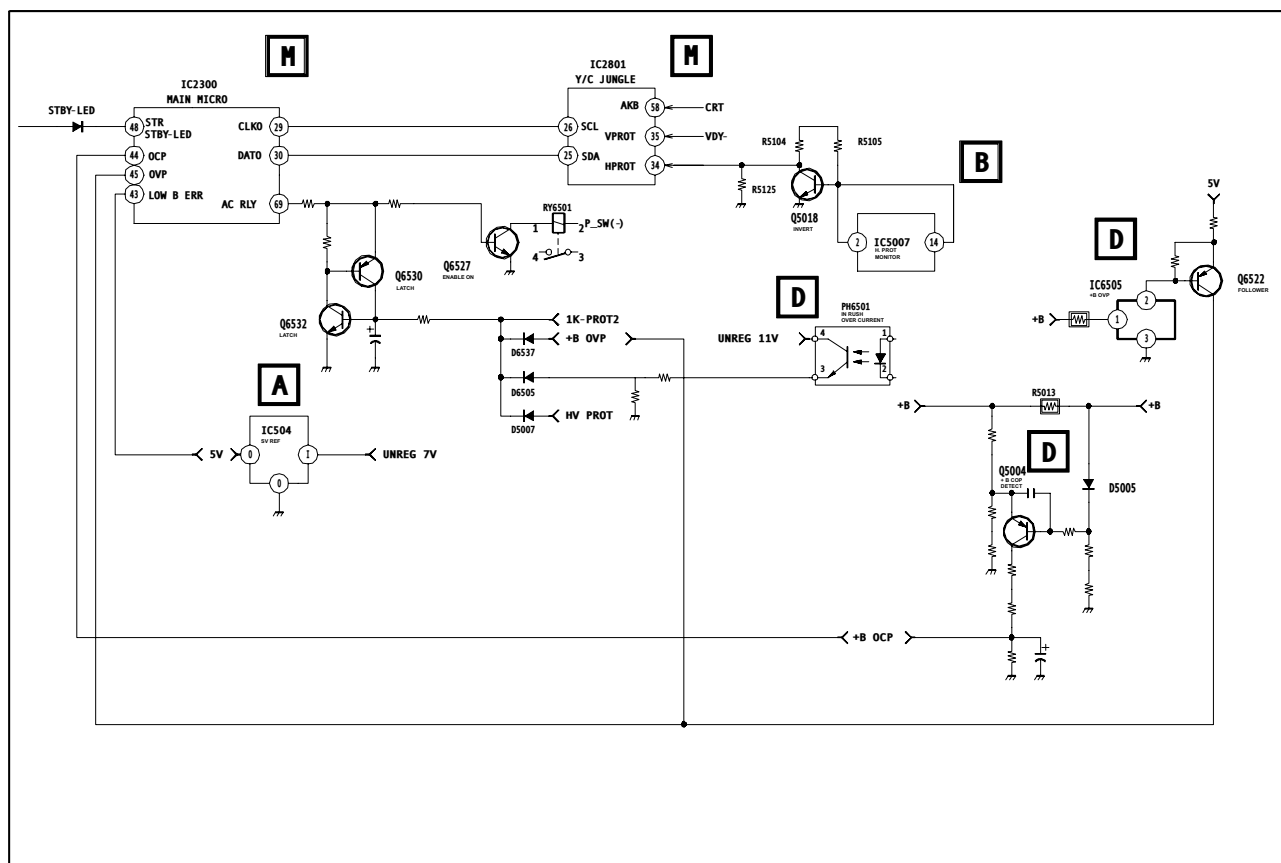
NOTE: This will also reset all user functions (including auto programming and picture settings)

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.

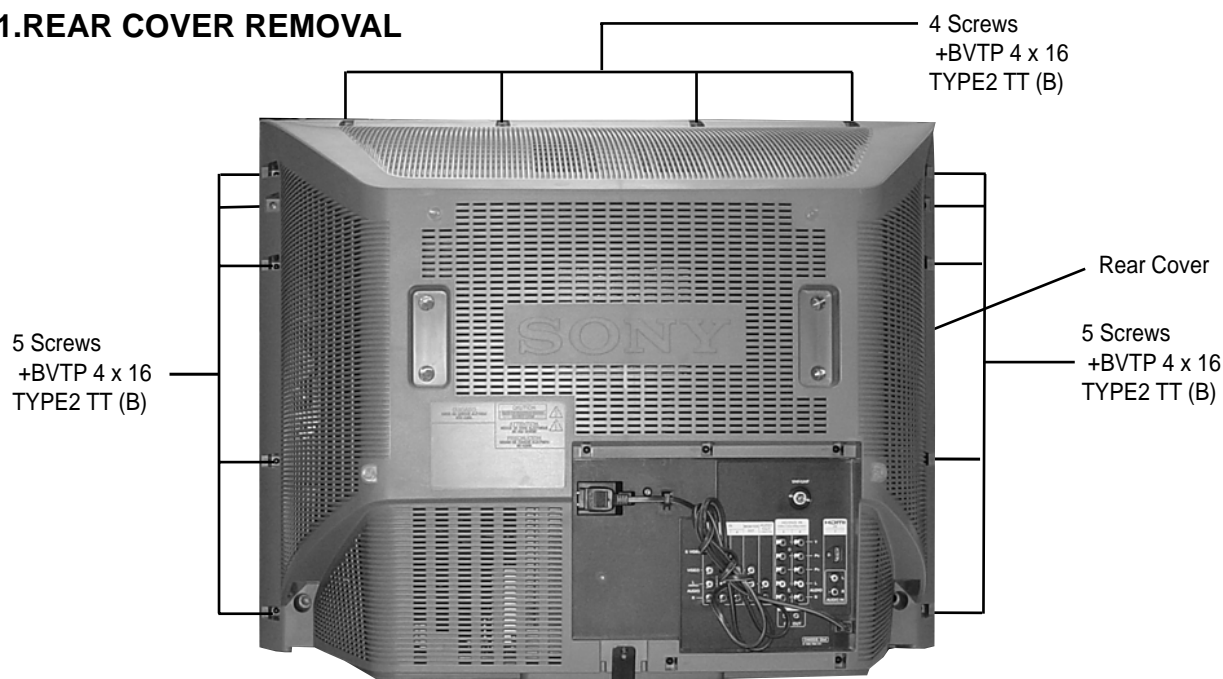
Horizontal Deflection Stopped

Occurs when either:

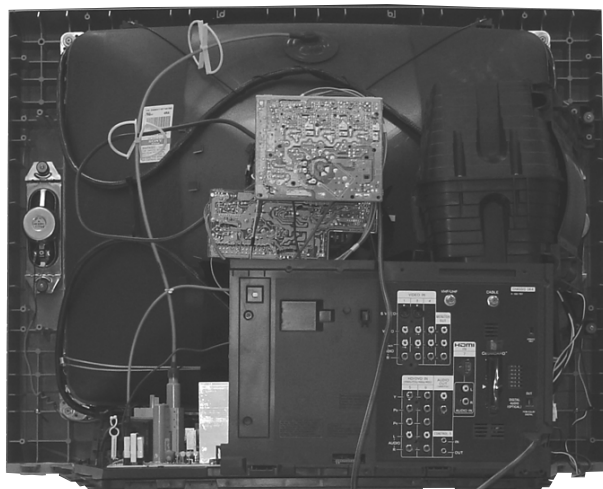
- 1) a +B overcurrent is detected (IC5007), or
- 2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL

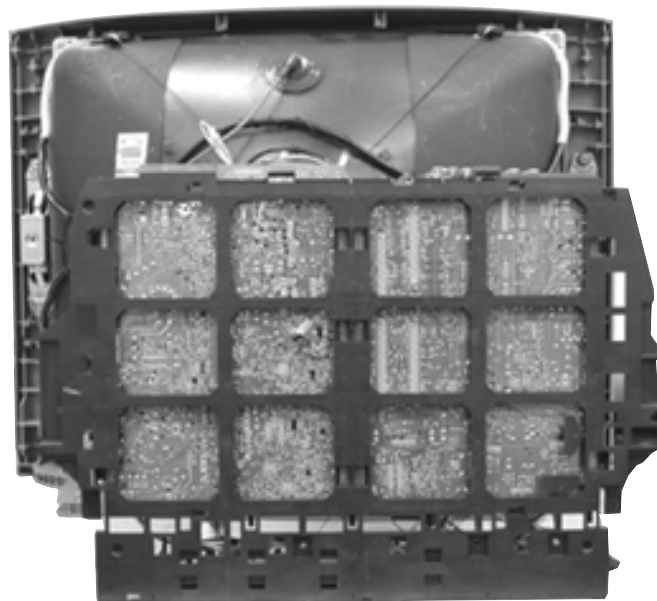


1-2. CHASSIS ASSEMBLY REMOVAL



- 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. Do not touch or short to GND or other components.

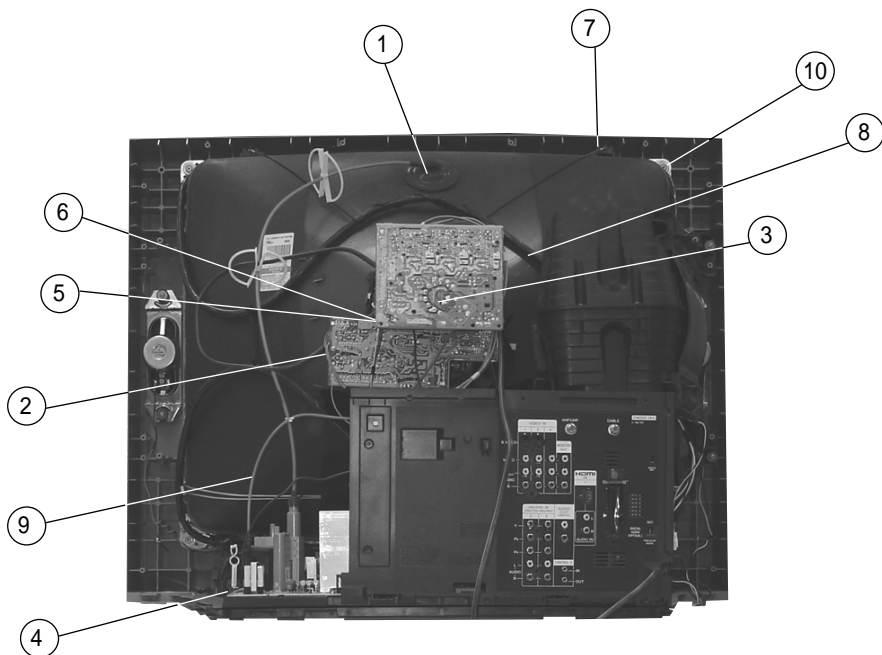
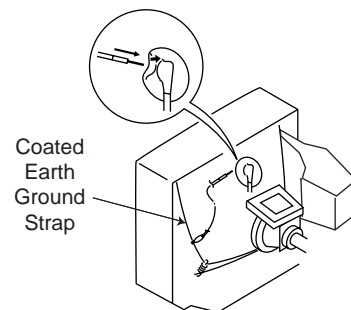
CAUTION! - Pay attention to Neck Assembly WY Board wire harness to B Board. The WY Board can easily break if there is sudden or excessive tension on the harness.

- 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.



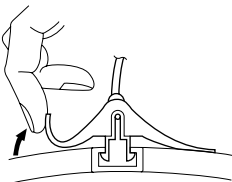
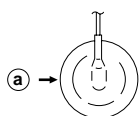
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the CX Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.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

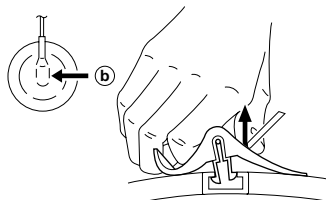
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

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.

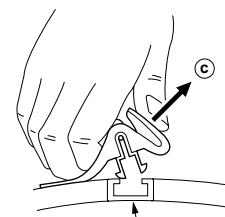
REMOVAL PROCEDURES



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 .

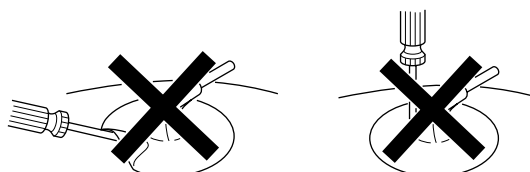


Anode Button

When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

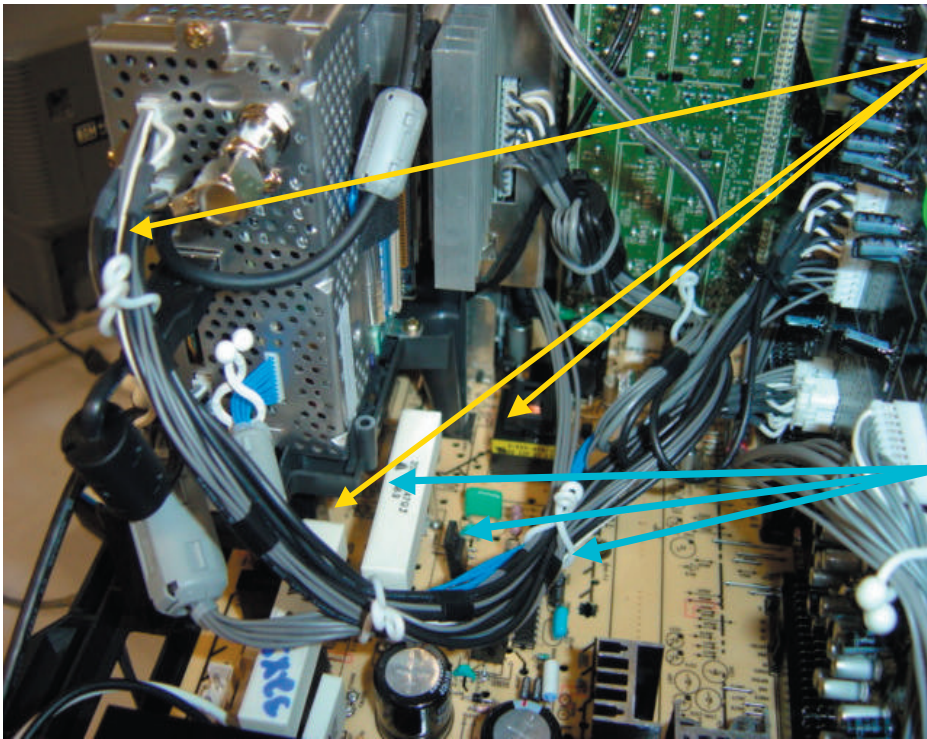
HOW TO HANDLE AN ANODE CAP

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



CABLE WIRE DRESSING

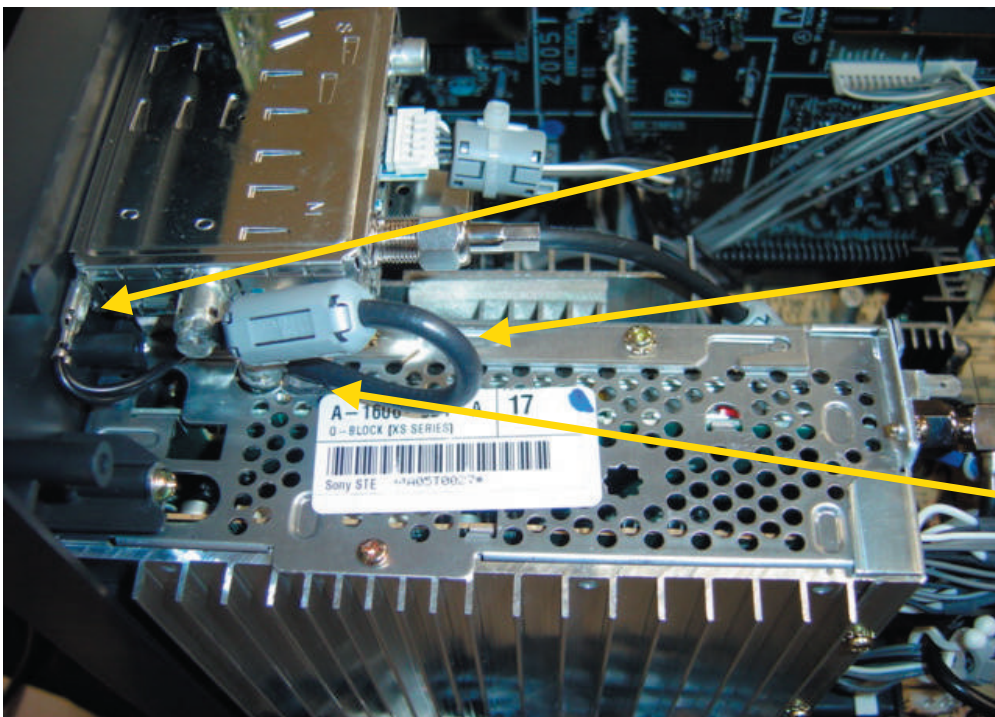
NOTE: IF THE WIRE DRESSING IS NOT DONE PROPERLY, IT MAY CAUSE DISTORTION
CHASSIS WIRE DRESSING DETAIL -1



x3 11mm purselock (p/n: 3-703-983-02)
 (NOTE positions of purselocks on main cable bundle.)

CRITICAL POINT:
 Main cable bundle **MUST** be dressed as **LOW** as possible between cement resistor and heat sink. Wires cannot touch heat sink (sharp edges) or the cement resistor (very hot).

CHASSIS WIRE DRESSING DETAIL -2

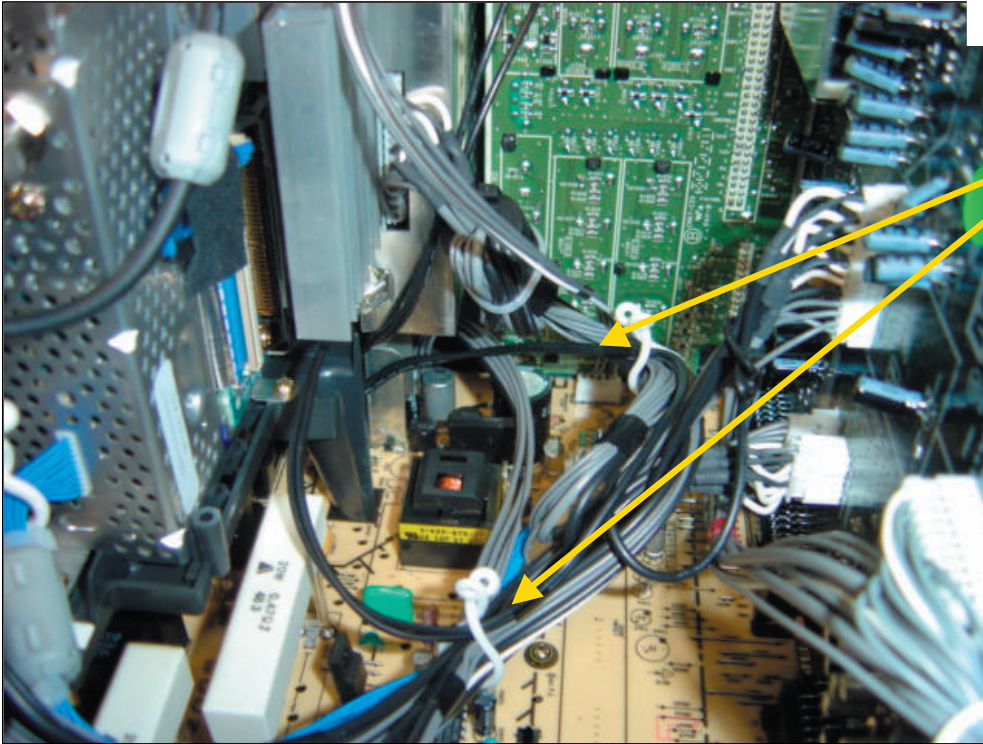


1-900-805-24 ground wire attached here on Antenna Switch

Pin Plug Cable 1-534-630-23 connect like this

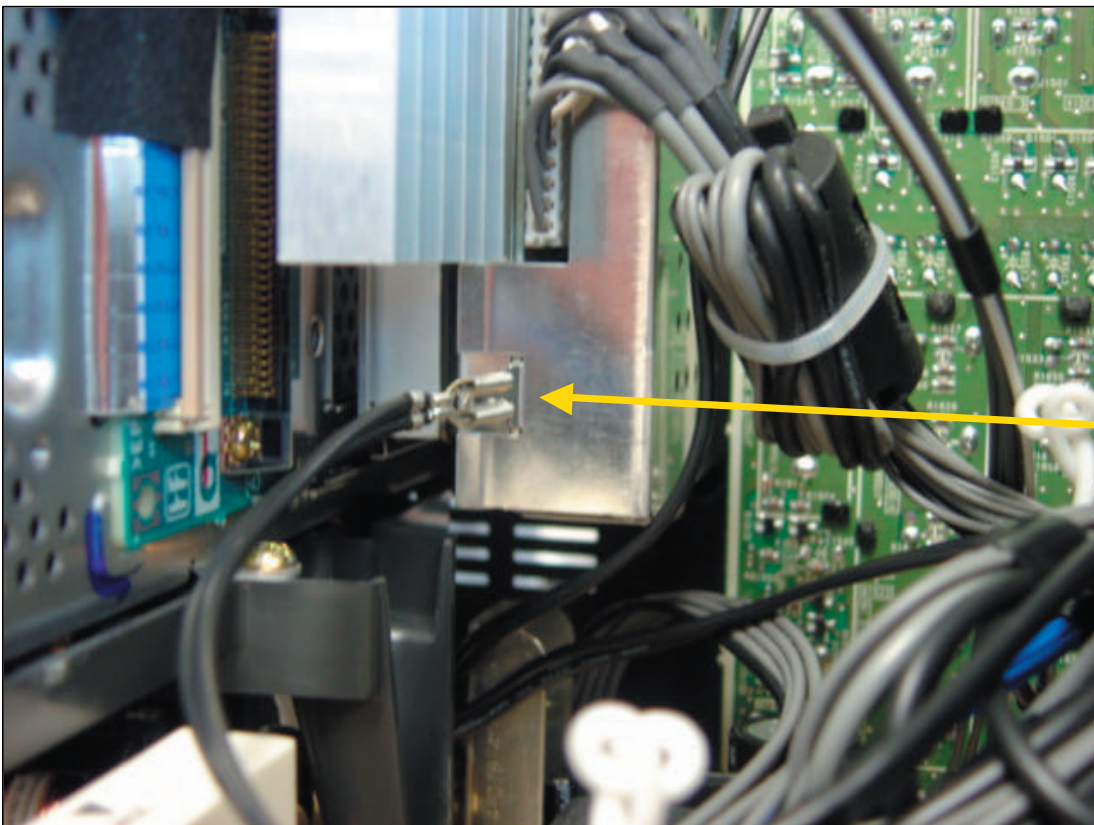
Add gasket next to connection with W-box (avoid cable touching shield case)

CHASSIS WIRE DRESSING DETAIL -3



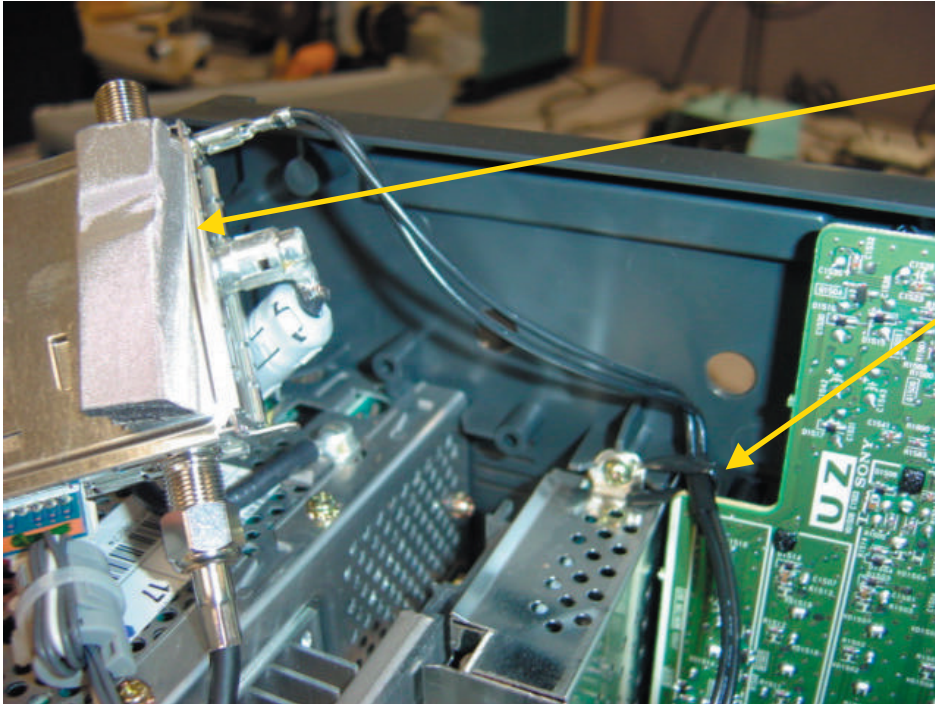
HDMI gnd cable is dressed with Q-box cables

CHASSIS WIRE DRESSING DETAIL -4



Connect HDMI gnd cable to HDMI shield cae

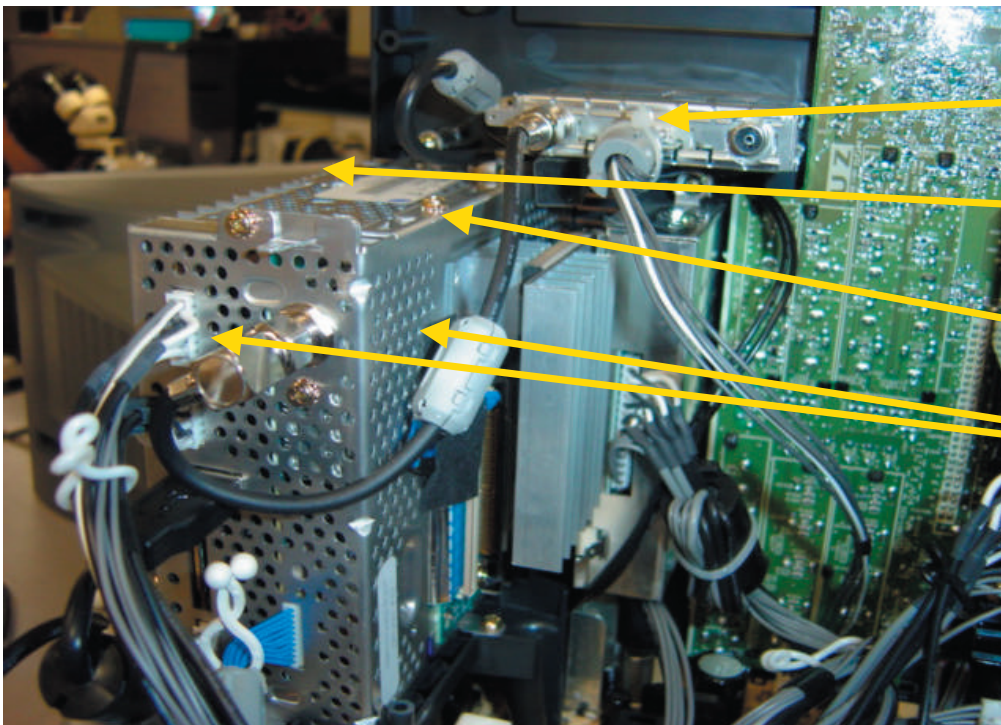
CHASSIS WIRE DRESSING DETAIL -5



Add gasket to Antenna Switch next to Fpin cables
Gasket will be between Ant switch and Q-box

1-900-805-24 gnd wire is dressed in wire clamp p/n 4-857-472-01
wire is dressed BEFORE securing position of Antenna Switch

CHASSIS WIRE DRESSING DETAIL -6



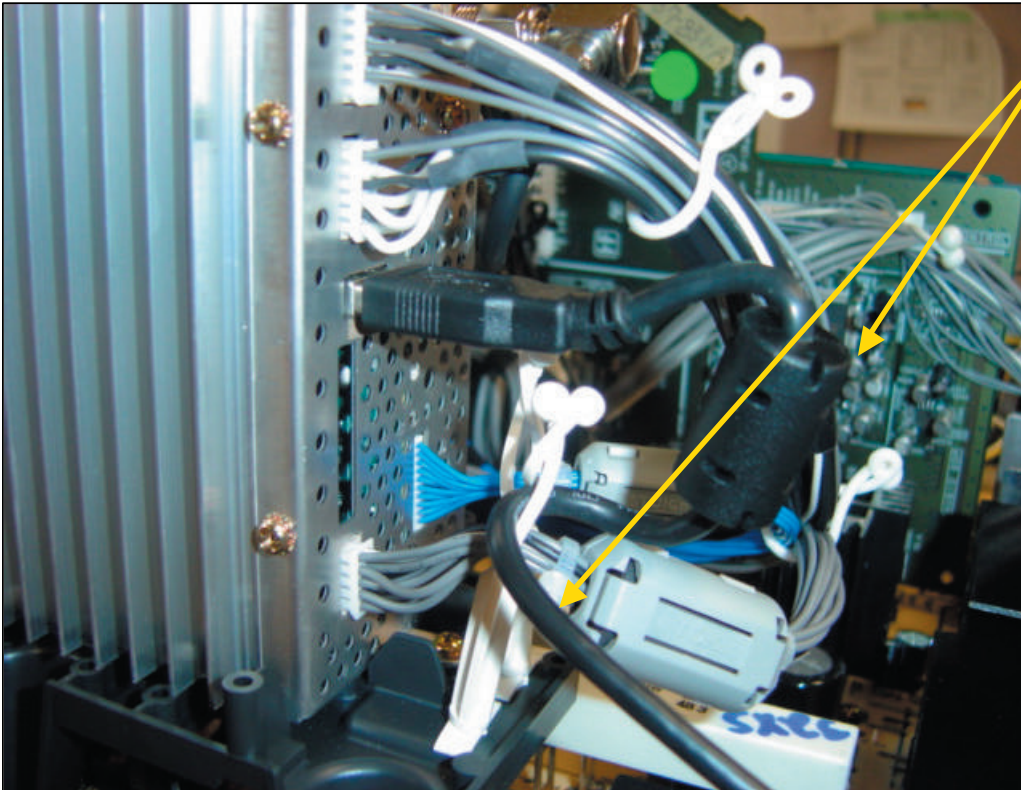
XS Models do NOT have Sub-Tuner Pin-Plug Cable

XS Models do NOT have iLINK (iEEE) Cable.

F-pin to F-pin cable 1-829-702-11 connect like this
Add Ferrite core 1-543-393-11 (place in the middle of cable)

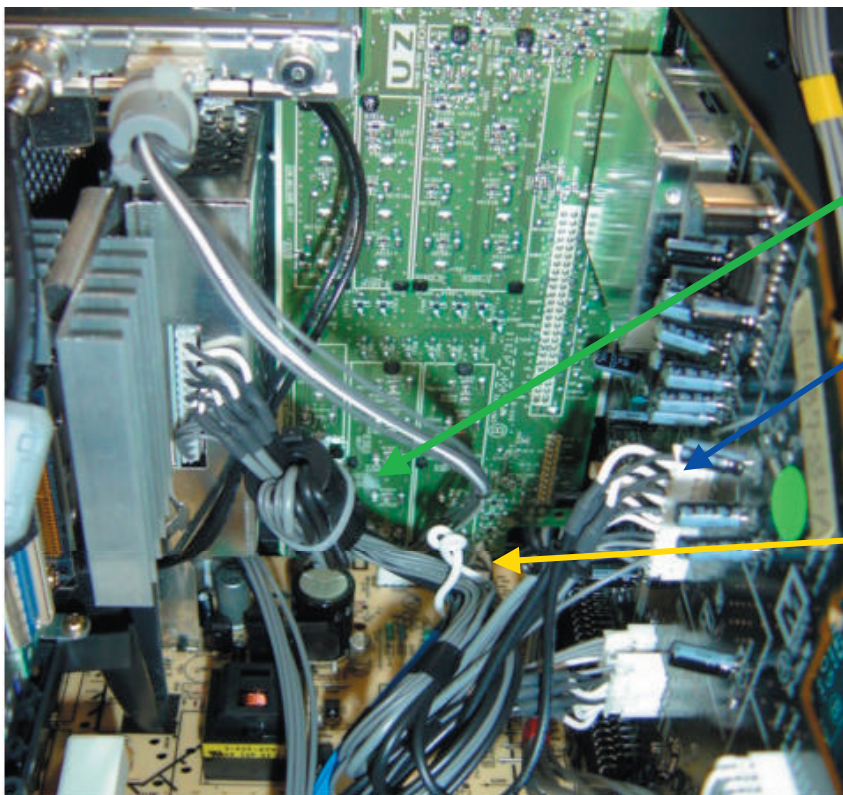
Note position (rotation of right angle connector) of cable/ferrite Do NOT dress the ferrite core so it can touch the Heat Sink on the POD connector

CHASSIS WIRE DRESSING DETAIL -7



Note "Z" routing of USB cable (Important for EMI)
Position of Ferrite core is important for EMI

CHASSIS WIRE DRESSING DETAIL -8

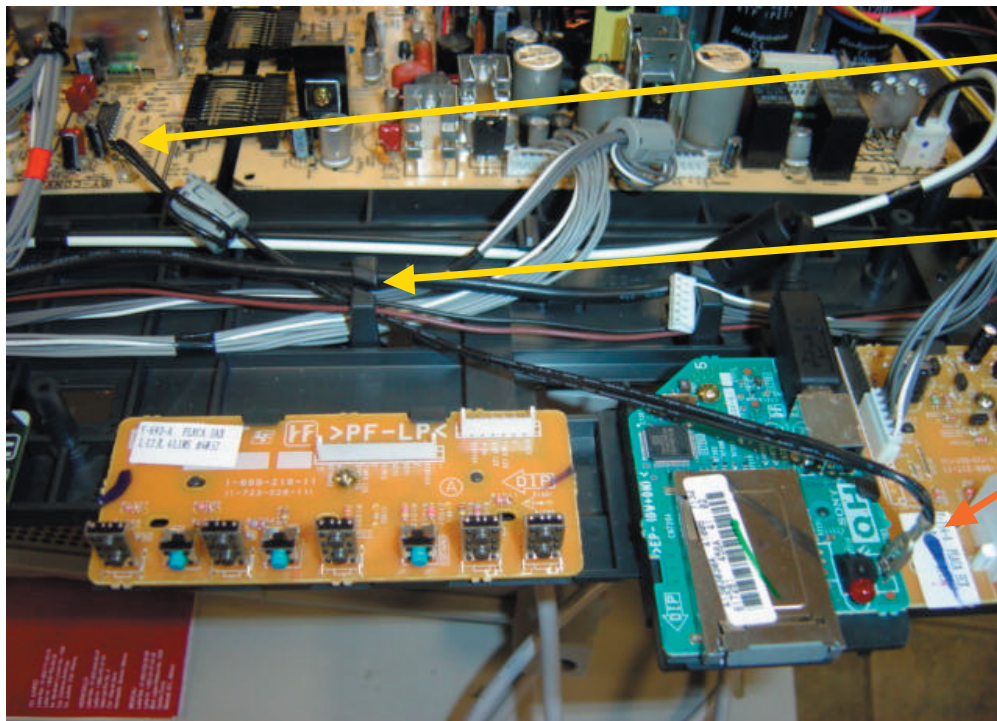


CRITICAL POINT:
14P Conn. Assy. (P-shield to M-Bd, p/n: 1-900-808-41)
MUST be dressed as far back in the chassis as possible.
NOTE position of the ferrite core (adjacent to P-shield).

Note 14 Conn. Assy is now connected in the middle of M board

Note Direction of wires dressed in 11mm purselock (p/n: 3703-983-02)

CHASSIS WIRE DRESSING DETAIL -9

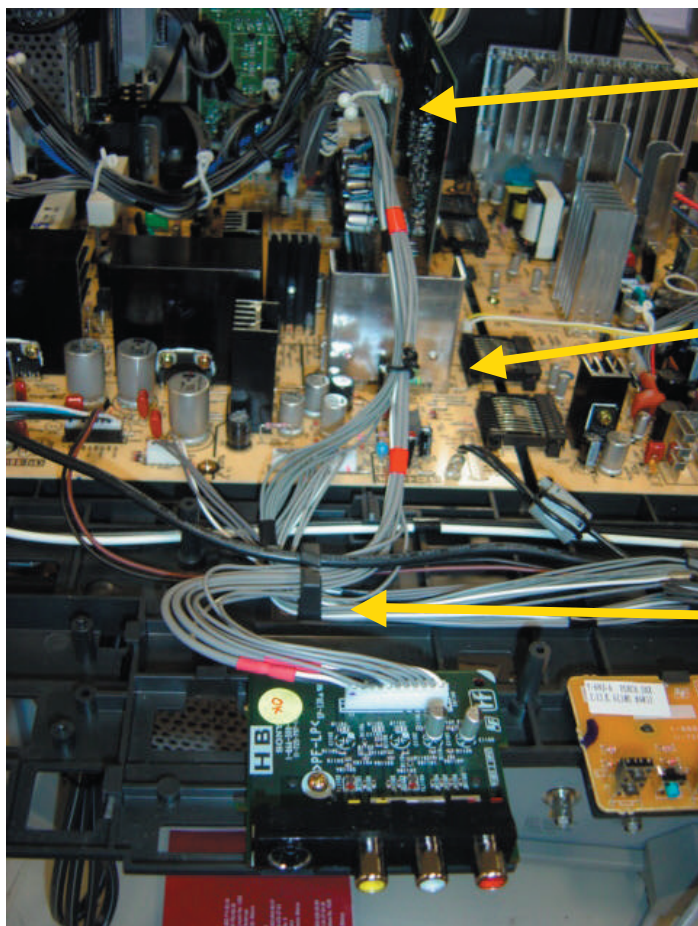


TAB on AZ-Bd is slightly bent at 45degree angle (towards front of set)

Double ground wire is dressed in H-Bracket clip.

TAB on QH-Bd is bent 45degrees away from memory stick connector.
Reason: If TAB is not bent over, wires may get snagged on DGC and break tab off PWB when inserting chassis into set.

CHASSIS WIRE DRESSING DETAIL -10

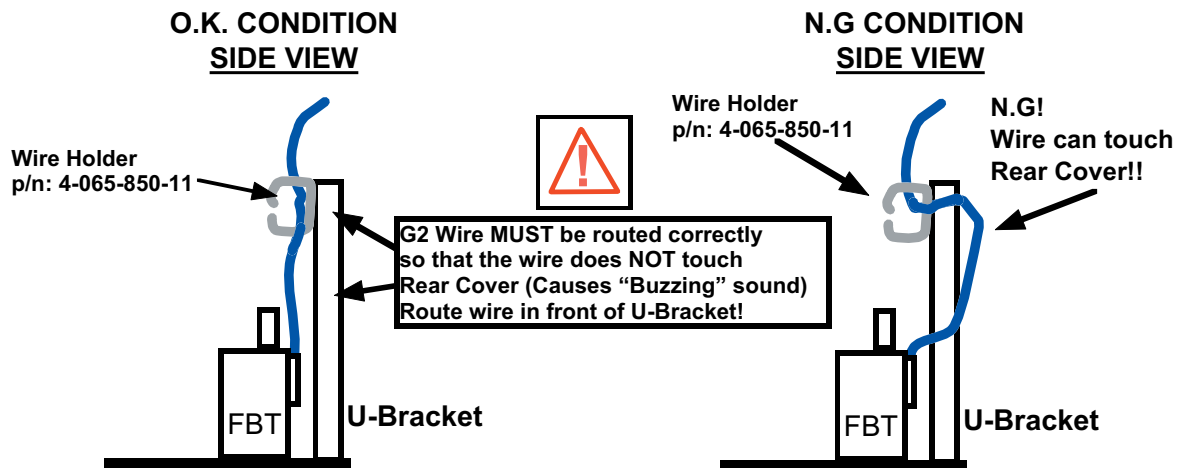
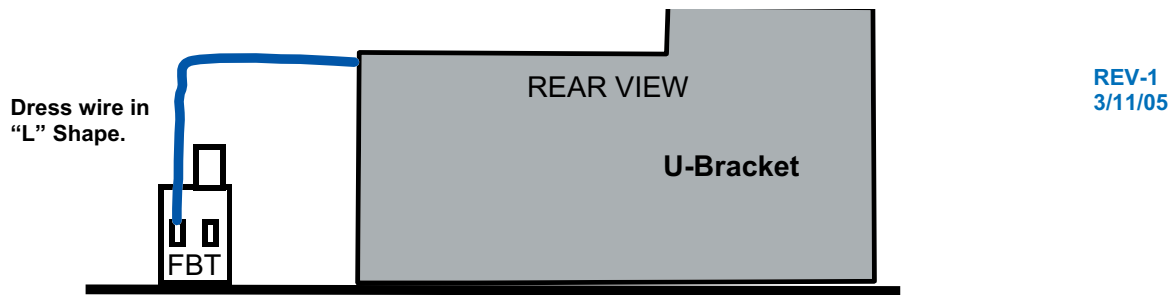


UZ-Bd to HB-Bd Conn. Assy.
 (with Red taping, p/n: 1-900-806-83)
 Dressed in purselock on M-Bd
 (p/n: 4-355-912-xx)
 4P WY-Bd to DL-Bd Conn. Assy.
 (with Red Housing, p/n: 1-900-808-02)
 Dressed in purselock on Z-Bd
 (p/n: 4-355-912-xx)

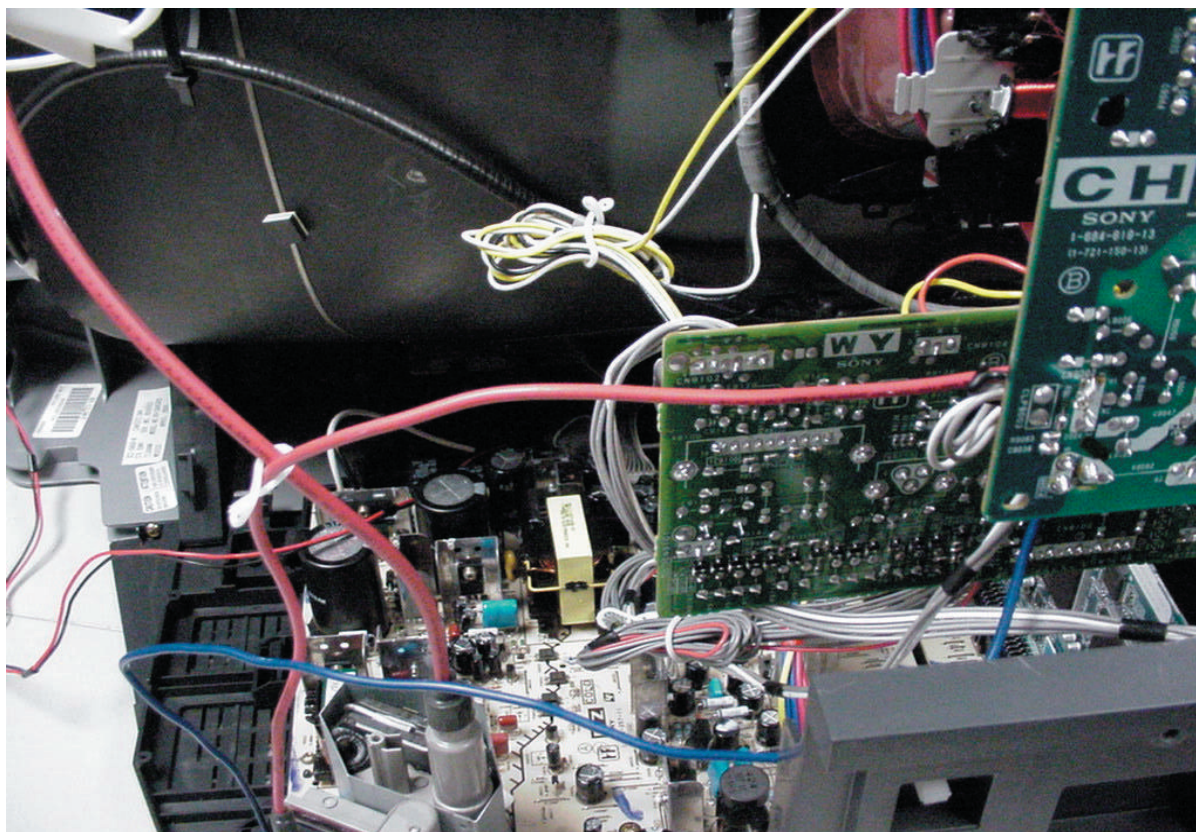
Both 1-900-806-83 and 1-900-808-02
 dressed in 9mm purselock
 (p/n: 3-703-982-02)

Both 1-900-806-83 and 1-900-808-02
 dressed in H-Bracket Clip
 NOTE: Directions of cables INSIDE clip.
 (Black cable dressed in H-Bracket
 clip is USB cable
 (QBOX to QH-Bd, p/n: 1-829-191-11)

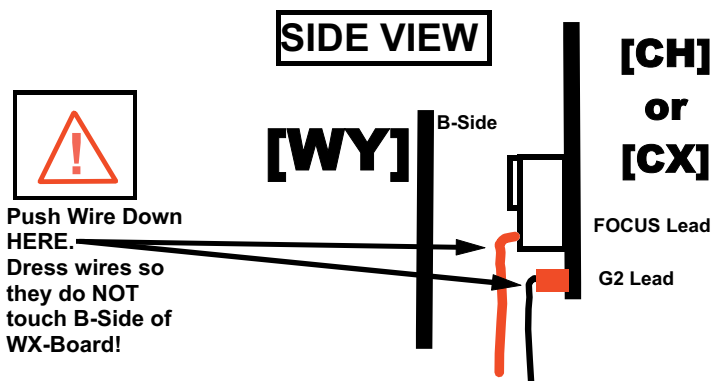
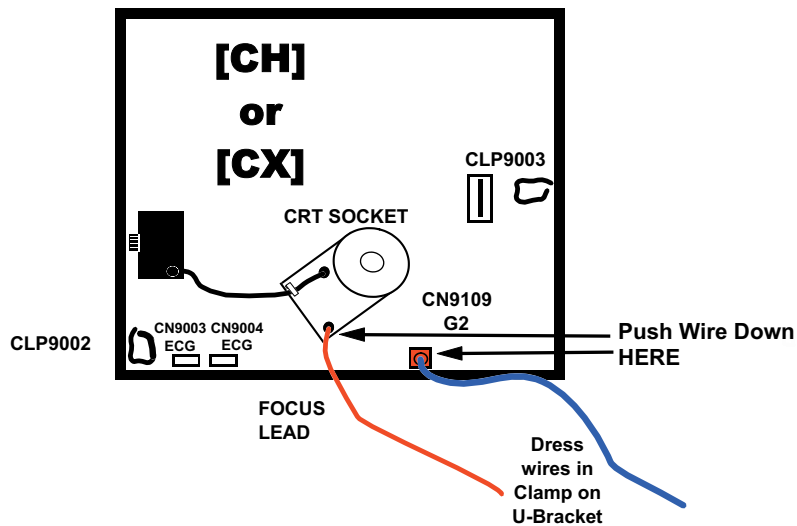
G2 WIRE ROUTING CAUTION POINT



FOCUS LEAD WIRE DRESSING



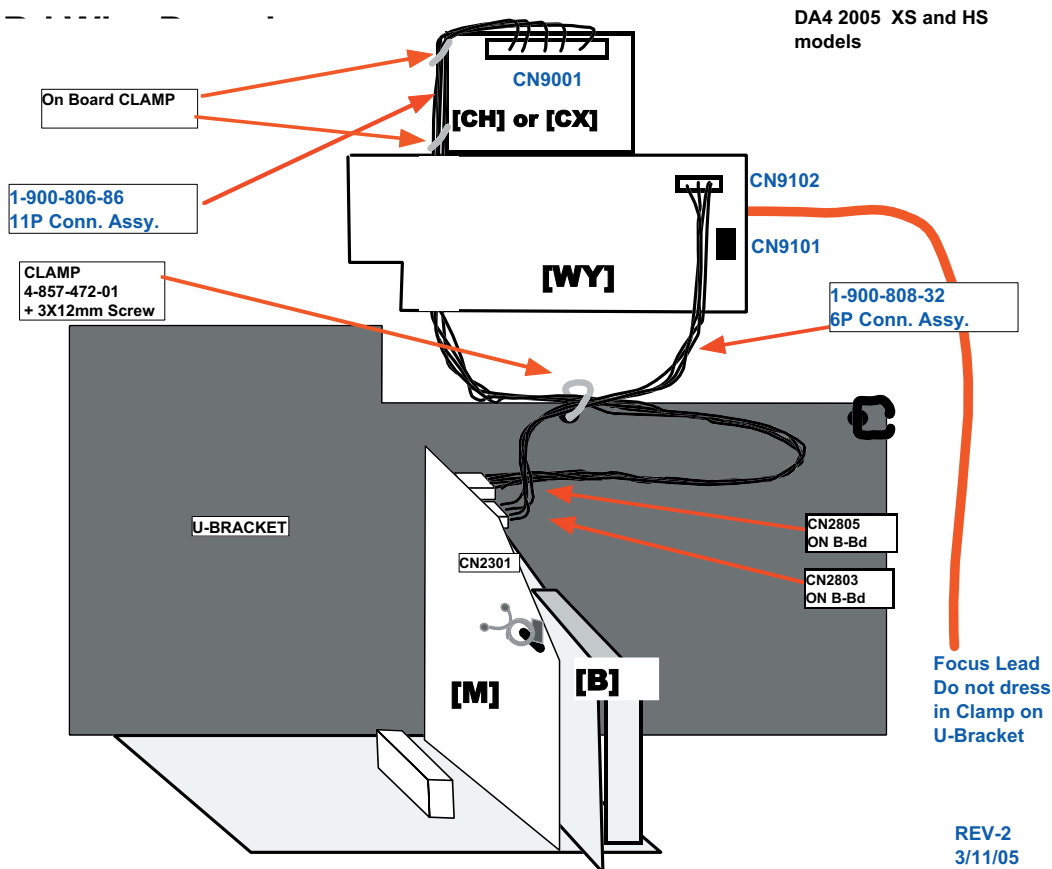
G2 & FOCUS LEAD WIRE DRESSING CAUTION POINT



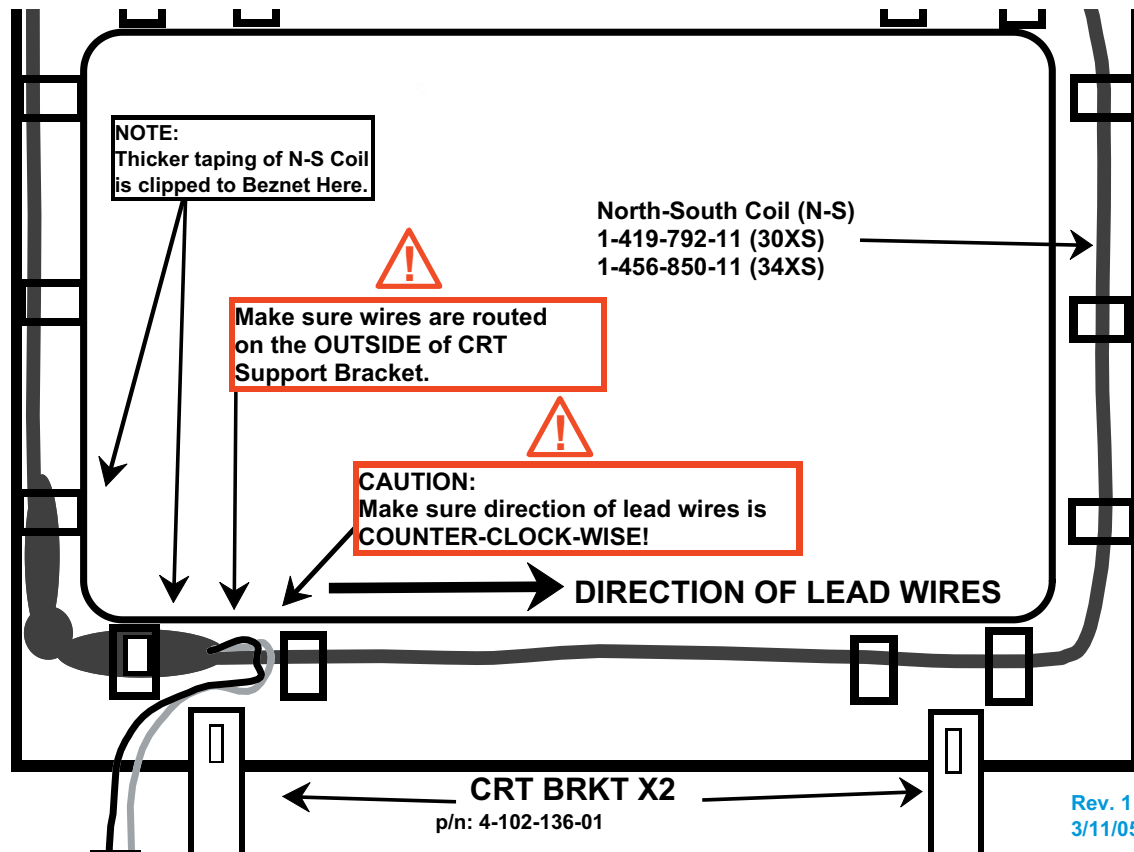
**BEFORE Installing CH-Board to CRT Neck
PUSH down G2 Lead AND Focus Lead. The wires
must NOT touch B-side of WY-Board!**

REV-1
3/11/05

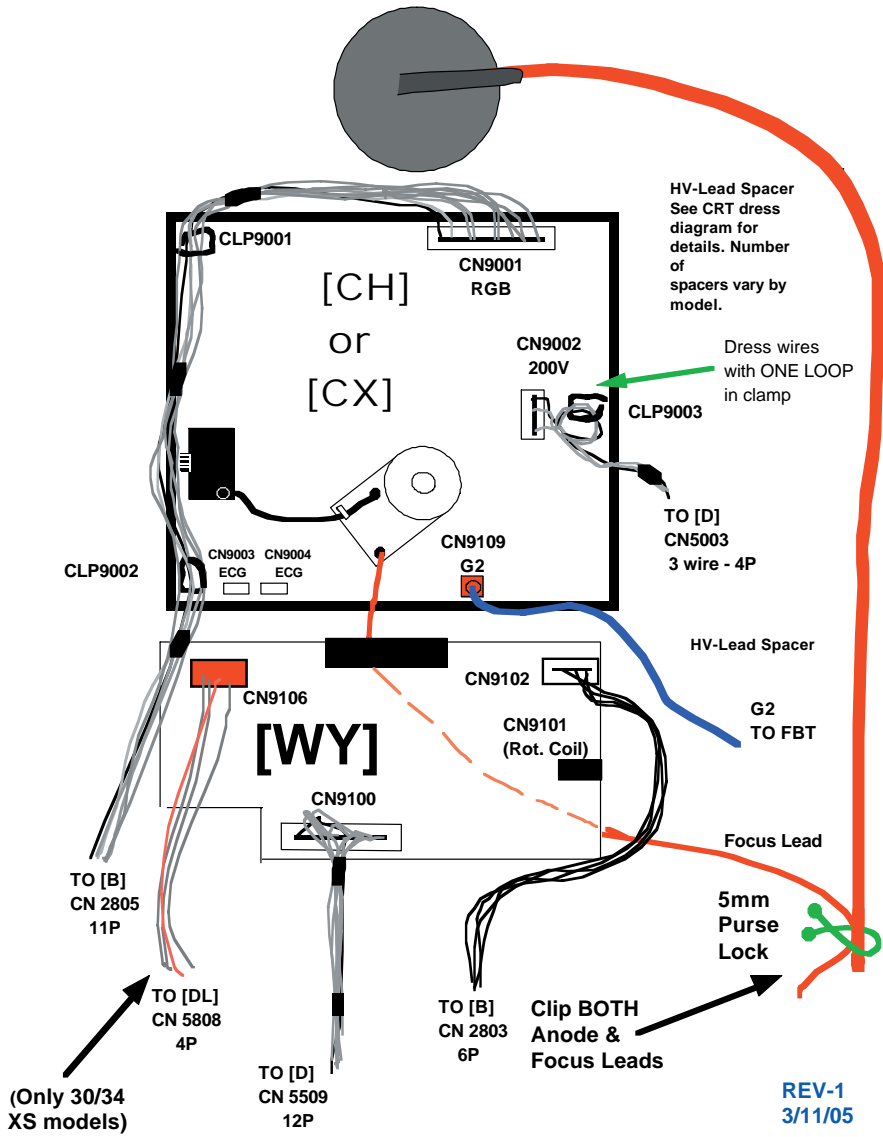
B BOARD WIRE DRESSING



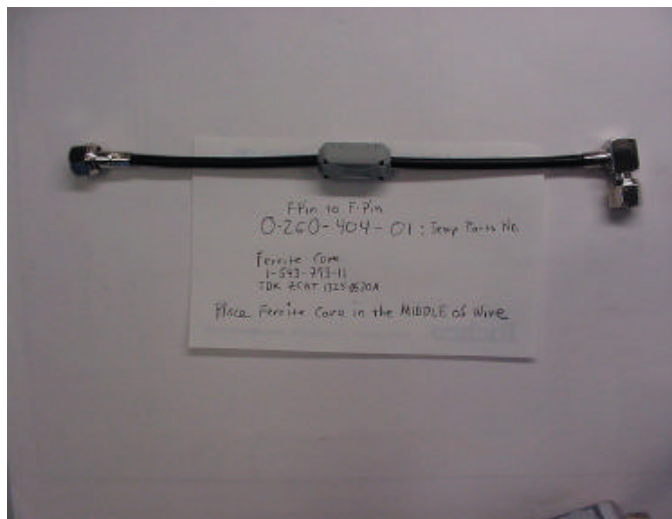
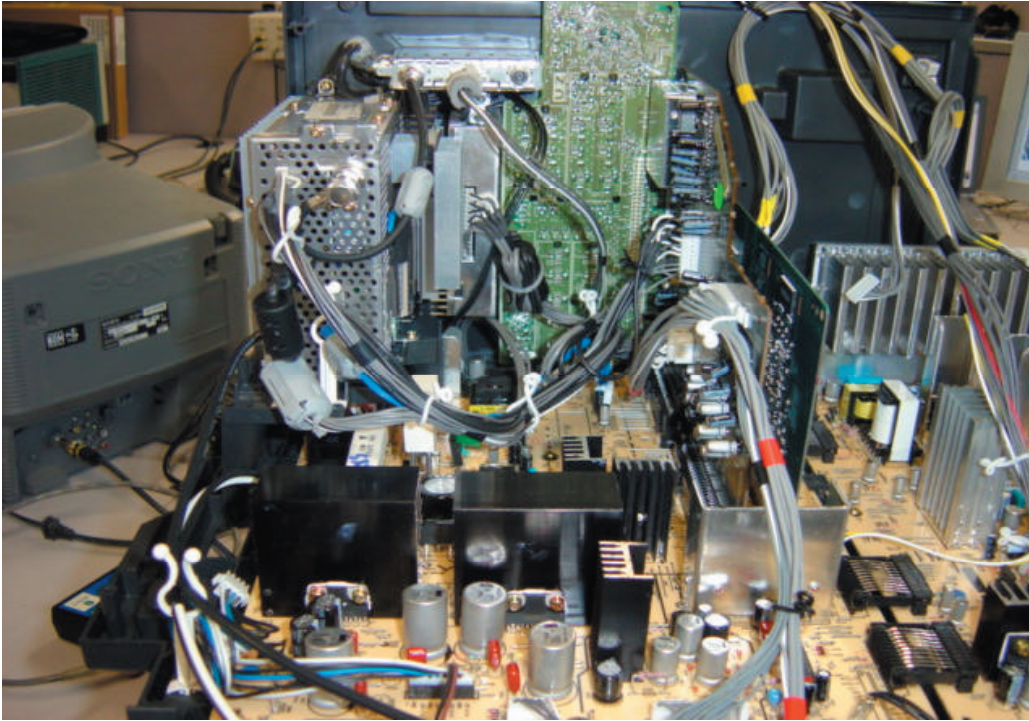
30/34W XS N-S COIL WIRE DRESSING/CAUTION POINT



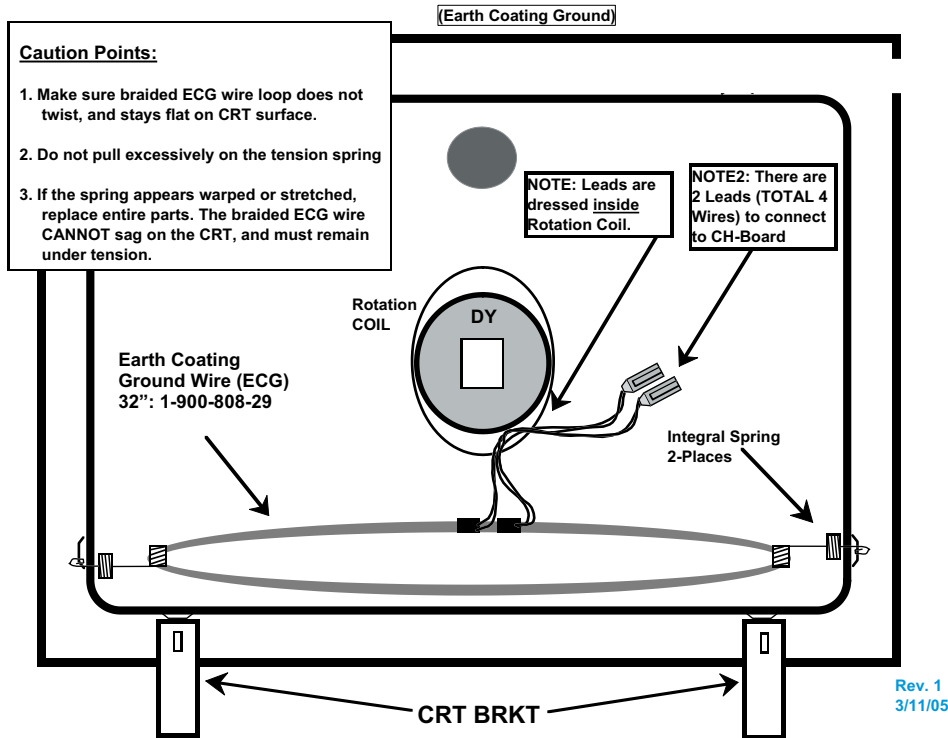
[WY]/[CX]/HV



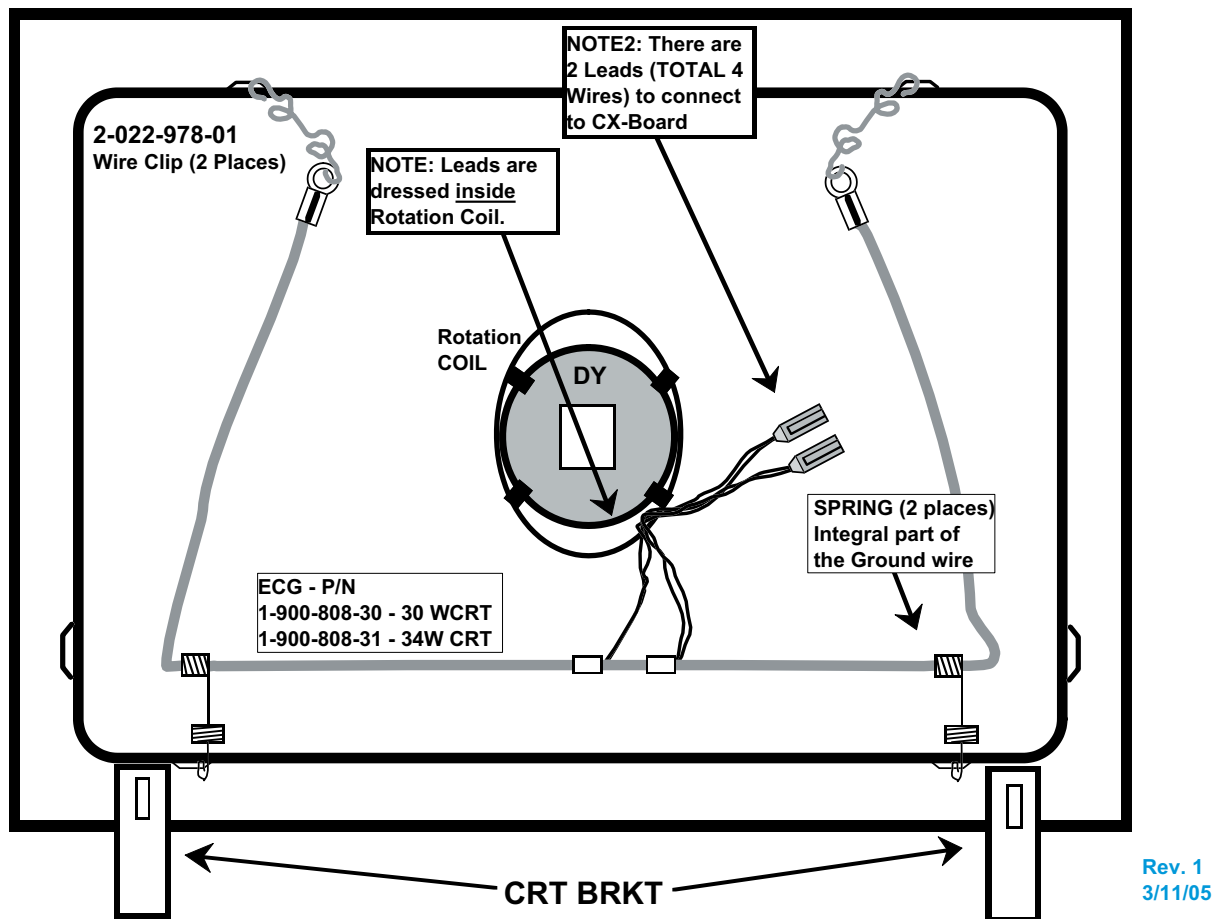
Q BOX WIRE DRESSING



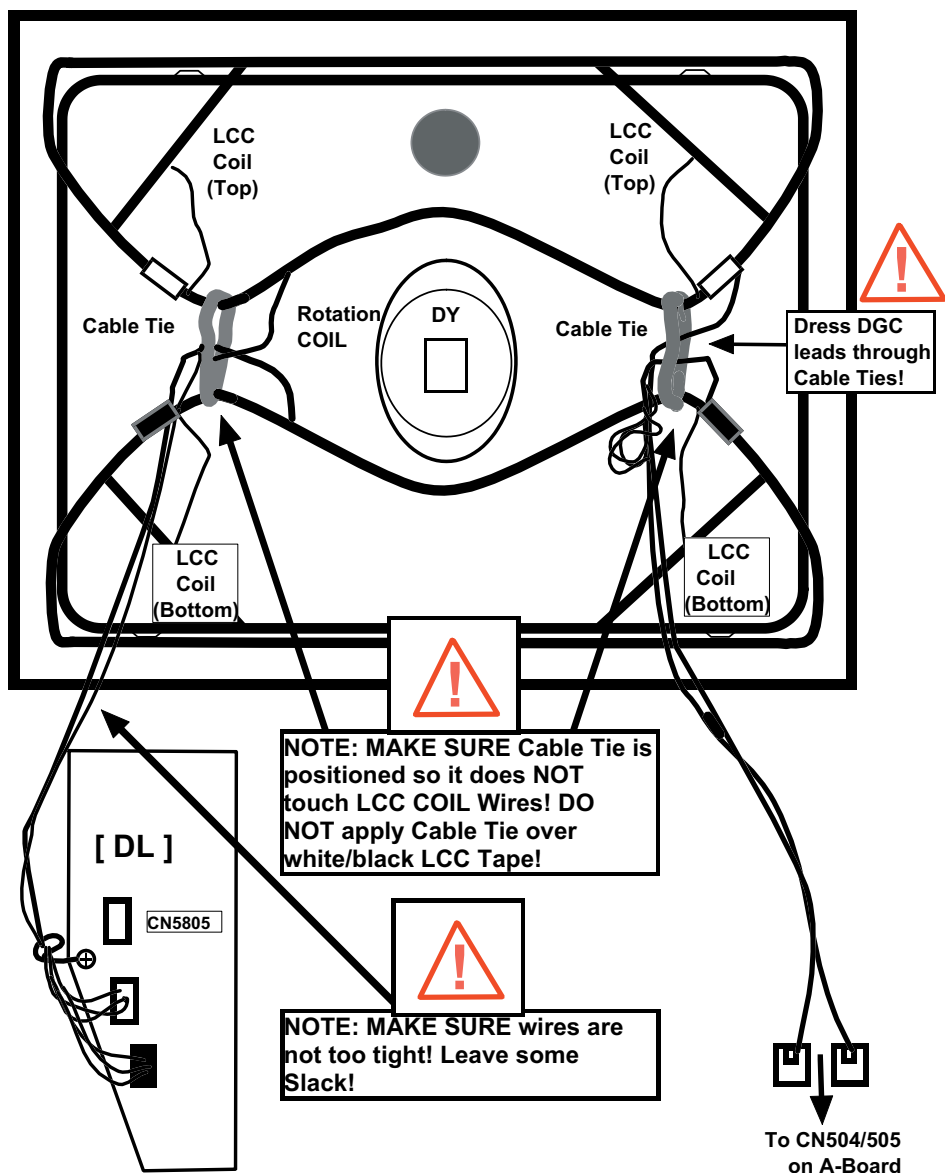
ECG WIRE DRESSING (XS & HS)



30/34W ECG WIRE DRESSING (XS & HS)



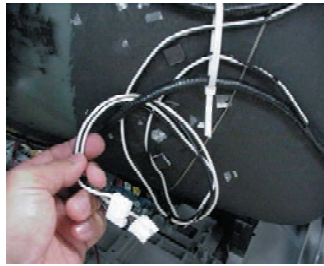
30/34W XS DGC/LCC CAUTION POINT



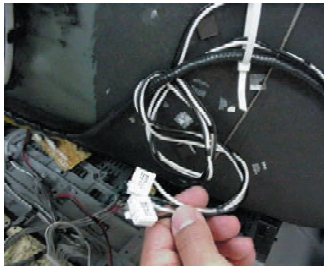
Rev. 1
3/11/05

30/34W DGC LEAD WIRE DRESSING (XS & HS)

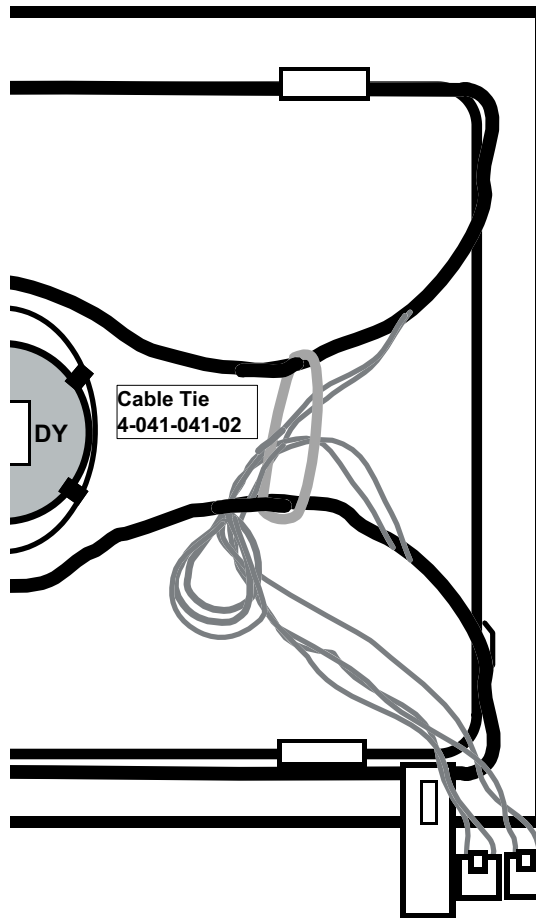
STEP 1:
Make a loop in leads
and route loop **BEHIND**
The DGC Coil.



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

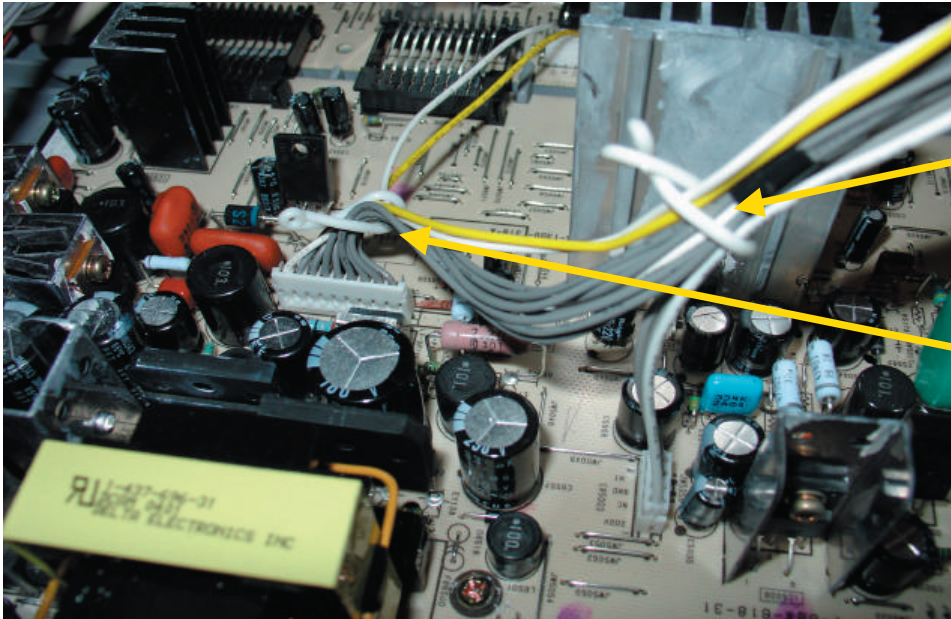


STEP 3:
Plug in connector
housings into the
[A] Board using the
loop to take up slack.



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3/11/05

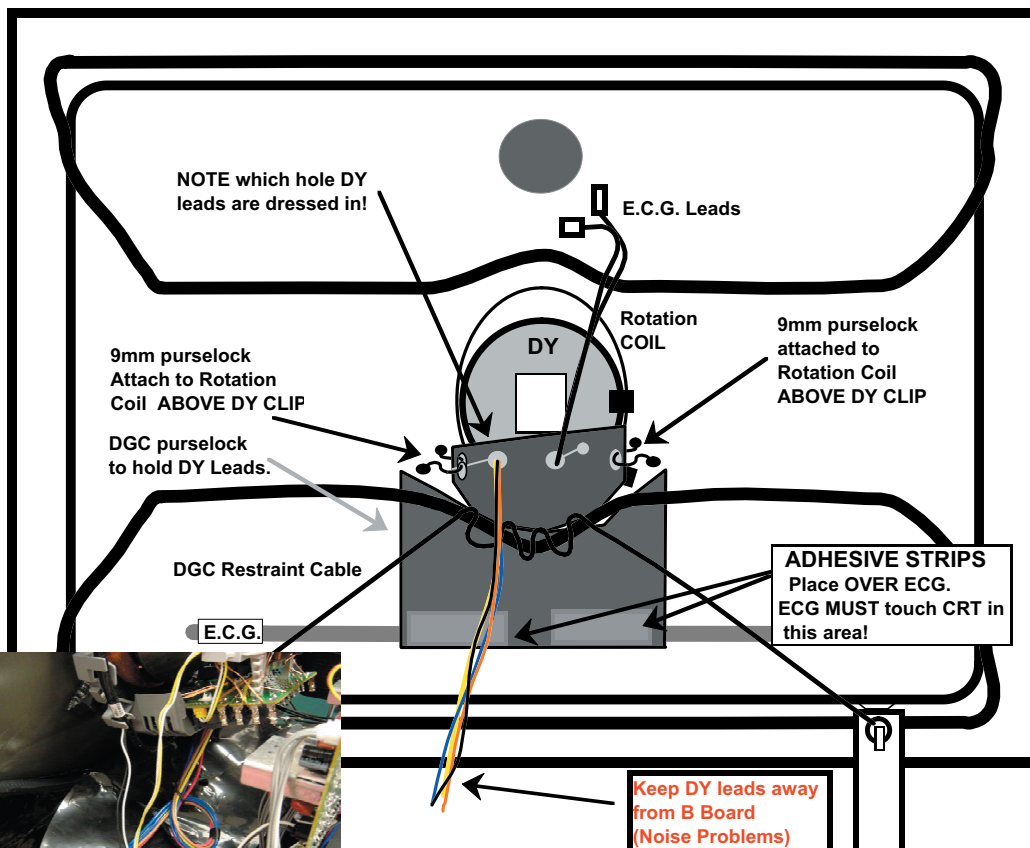
CHASSIS CAUTION POINT



NOTE position of 5mm purselocks same height as heat sink

Apply as close to 12P Connector as possible

DY SHIELD DRESSING



Rev. 1
3/11/05

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

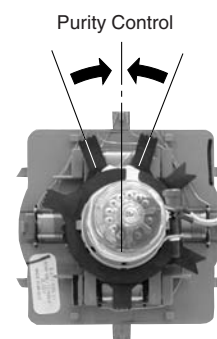
Preparation:

- 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.

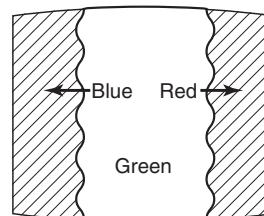
• LT	Left Top LCC Control	127
• LB	Left Bottom LCC Control	127
• RT	Right Top LCC Control	127
• RB	Right Bottom LCC Control	127

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.

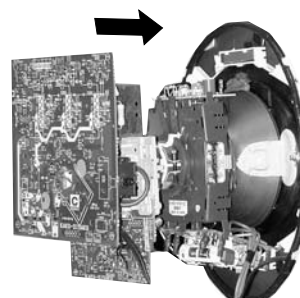
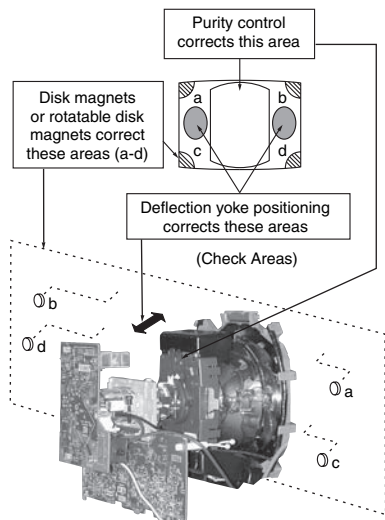


Figure 1

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



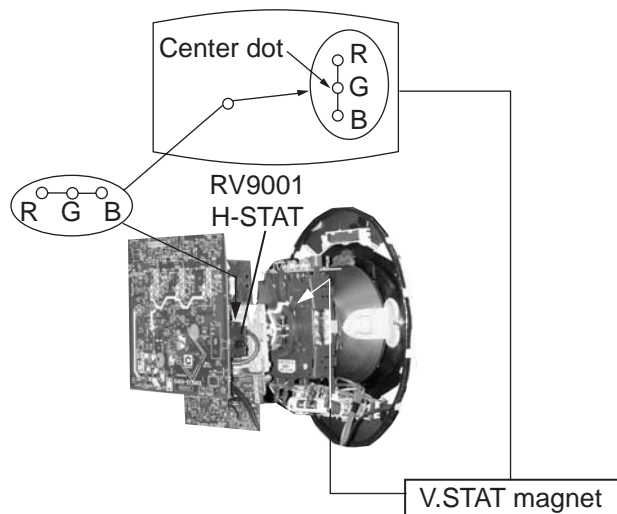
2-2. CONVERGENCE

Preparation:

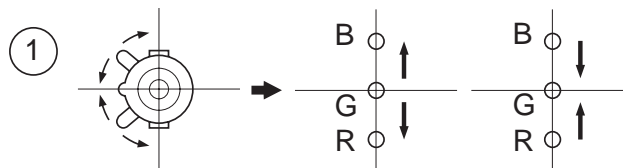
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

2-2.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. 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.
2. Adjust H.STAT convergence, RV9001, on CX Board to converge red, green, and blue dots in the center of the screen.
3. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



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



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

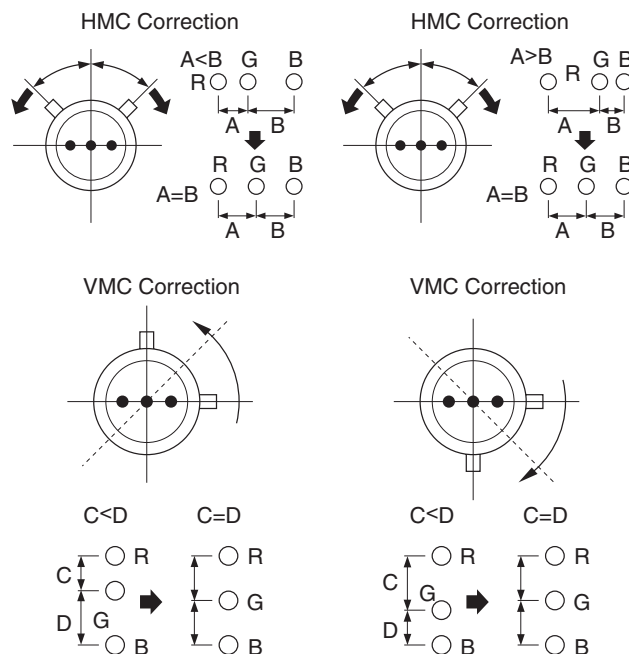
Preparation:

- 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.
1. Adjust service mode CXA2170D-1 05 V-CEN so that the top pin and bottom pin are symmetrical from top to bottom.
 2. Adjust service mode CXA2170D-1 06 V-PIN so that the top pin and bottom pin are symmetrical from top to bottom.
 3. 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.

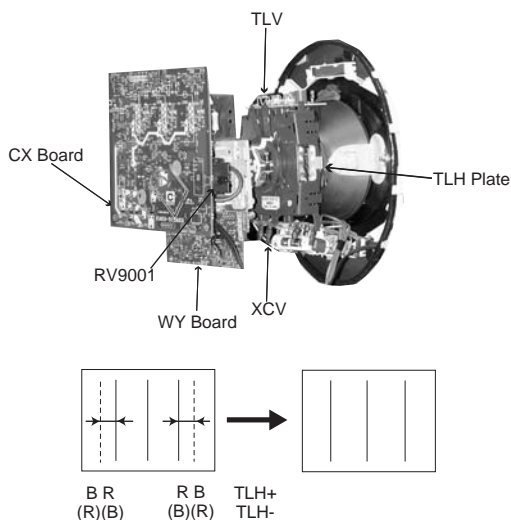
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



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.

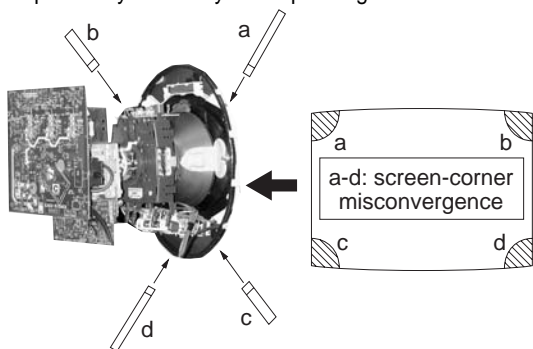
Note: When static convergence adjustments are complete, restore dynamic convergence.

2-3.3. SCREEN-CORNER CONVERGENCE

Preparation:

- Input a cross hatch pattern signal.

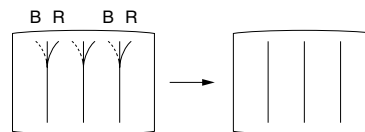
1. Affix a permalloy assembly corresponding to the misconverged areas.



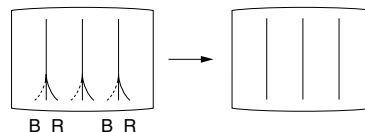
2-3.4. DYNAMIC CONVERGENCE ADJUSTMENTS

- 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.

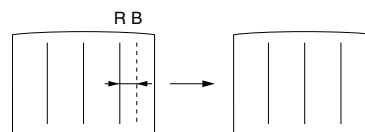
0. YBWU (Upper Y-BOW)



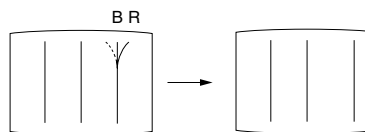
1. YBWL (Lower Y BOW)



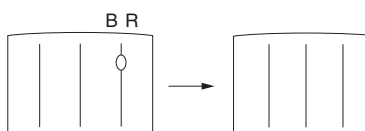
2. RSAP (Right H AMP)



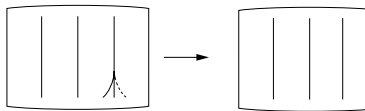
3. RUBW (Right Upper BOW)



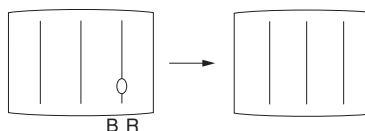
4. RUMB (Right Upper Middle BOW)



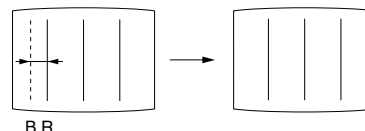
5. RLBW (Right Lower BOW)



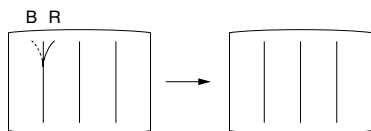
6. RLMB (Right Lower Middle BOW)



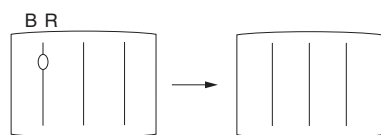
7. LSAP (Left H AMP)



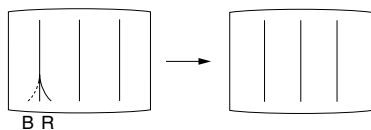
8. LUBW (Left Upper BOW)



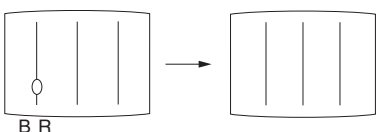
9. LUMB (Left Upper Middle BOW)



10. LLBW (Left Lower BOW)



11. LLMB (Left Lower Middle BOW)



12. CADJ Fix 29

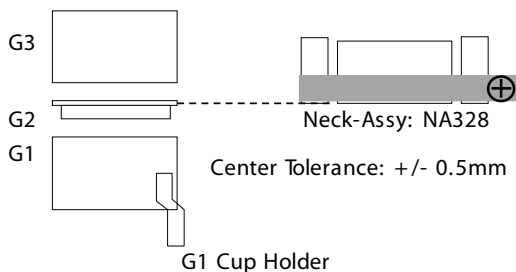
2-4. FOCUS ADJUSTMENT

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-34XS955

CRT: 36RDE/38RFN (Super-fine pitch and square fannel)
 Neck Assy:NA328 (VA-type, square pin assignment, VPIN harness)



KD-30XS955

CRT: 32RDE (Super-Fine Pitch and square fannel)
 Neck Assy:NA2920 (VA-Type, Square pin assignment, VPIN harness)

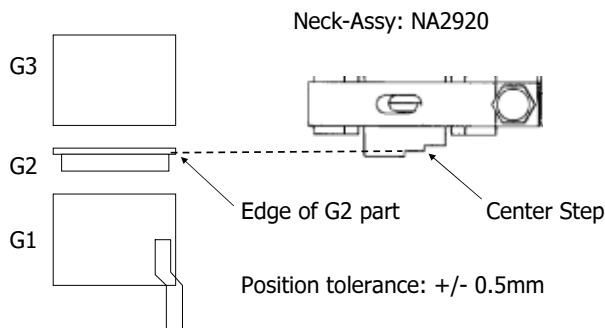
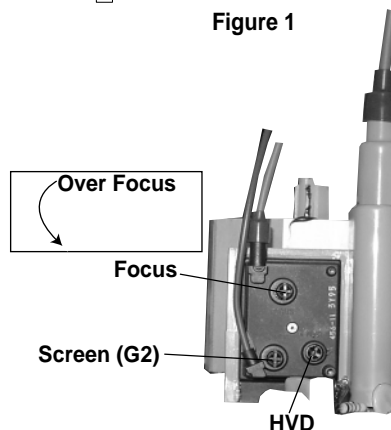
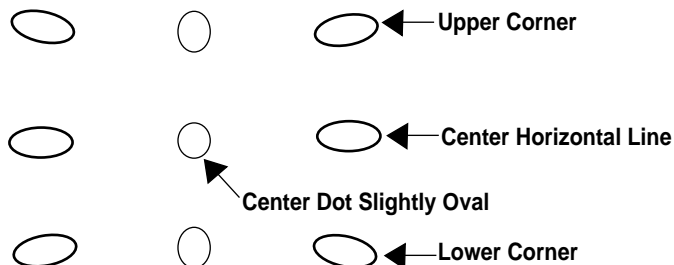


Figure 1



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:

- 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.
- Input a cross hatch signal.
- Change CXA2170-P2 item 2 RGRS to 2 to make green only.

- Overfocus to adjust DQP phase. Adjust the data (CXA2170-D4 item 8) to balance left and right vertical line width.
- Once DQP is balanced, remove the short from DF circuit and refocus the set.
- Adjust DF (CXA2170-D4 item 7) to balance left and right vertical line width.
- Reconfirm focus performance.

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

Table 1

2-5. SCREEN (G2)

- Input composite white field into Video 1.
- Set to service mode and adjust as follows:

(Fig. 1)	Operation Procedure	Standards	Notes
CXA2170P-2 PICO 1-> 0	1) In Full mode, apply changes in Fig. 1 2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size. 3) Adjust G2 by Flyback transformer (T8001). 4) Return data changes in 1) to original condition.	170 +/- 5 (V _{DC})	32RDE, 36RDE

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:

- Set PRO MODE (Reset).
- 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

- Set to Service Mode and adjust as follows:

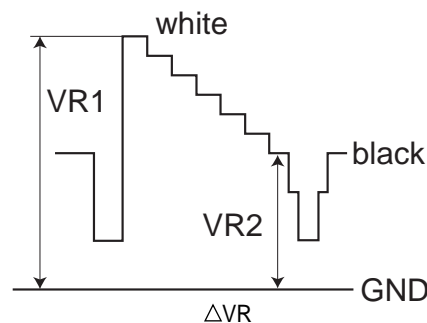
2170P-2

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

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

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



$$(30XS/34XS) = 1.60 \pm 0.05 \text{ Vpp}$$

- 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:

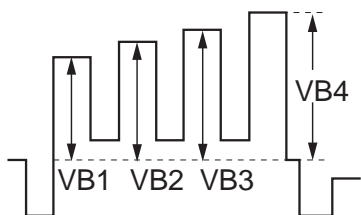
2170P-2

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

2. Connect an oscilloscope to Pin 5 of CN9001 (B. DRV) on the CX 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: $VB1 \leq VB4$ ($=20\text{mV} \pm 200 \text{ mV}$)
 HUE: $VB2 \leq VB3$ ($=20\text{mV} \pm 200 \text{ mV}$)

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:

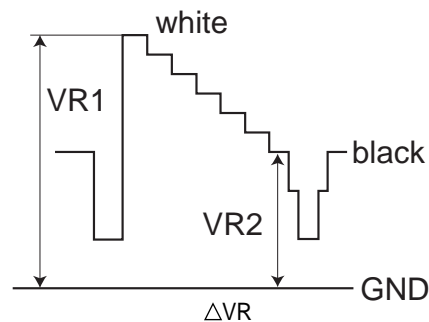
2170P-2

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

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

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT



$(30XS/34XS) = 1.60 \pm 0.05 \text{ Vpp}$

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

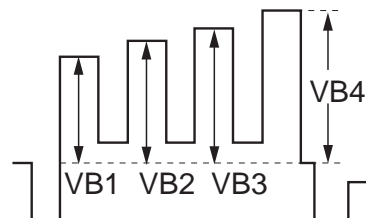
NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the CX 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		WB701 Preset	32RDEN	0.775	0.915	Adjustment Registers (Service Mode)																																																																						
	R/G = 1.000		R/G = 1.007			36RDE	0.770	0.930																																																																							
	B/G = 1.000		B/G = 1.139			38RFN	0.713	0.903																																																																							
	x = 0.284		x = 0.276																																																																												
y = 0.298		y = 0.284																																																																													
Condition	Picture Mode: Single (Full)				RDRV (fixed)	2170P-1-06																																																																									
	Picture Setting: Pro				GDRV	2170P-1-07																																																																									
	Color Temp: Neutral				BDRV	2170P-1-08																																																																									
	Picture: 63		write to 86h:01h:FFh		RCUT (fixed)	2170P-1-09																																																																									
Color: 0		write to 86h:03h:00h		GCUT	2170P-1-10																																																																										
				BCUT	2170P-1-11																																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>PART NO.</th> <th>DESCRIPTION</th> <th>Qty</th> <th>Tools/Instruments</th> <th>Qty</th> <th>4x</th> <th>3x</th> <th>2x</th> <th>1x</th> <th>Drawing No. registration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										PART NO.	DESCRIPTION	Qty	Tools/Instruments	Qty	4x	3x	2x	1x	Drawing No. registration	1										2										3										4										5										6									
PART NO.	DESCRIPTION	Qty	Tools/Instruments	Qty	4x	3x	2x	1x	Drawing No. registration																																																																						
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TITLE: White Balance Adjustment (2)								TS-6999-988M-01																																																																							
Model name: KD-34XBR960 (SV-12168(U)) Pg. 42																																																																															

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 - HDMI 480i Signal

CXA2170P1

NO.	Name	Control Function
3	CBOF	CBOF (FROM VIDEO 5) + 3
4	CROF	CROF (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:

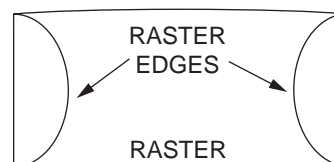


Figure A

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.

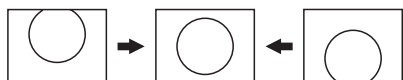
Use the CXA2170-D1 and -D2 adjustable data items shown.

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.

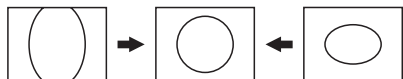
NOTE: Make sure that the picture size is within specs. Vertical size is 11.8 ± 0.1 sq. and horizontal size is 15.8 ± 0.1 sq.

CXA2170D-1

Item 0. VPOS (V-POSITION)



Item 1. VSIZ (V-SIZE)



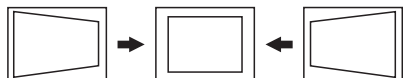
Item 3. VLIN (V-LINEARITY)



Item 4. VSCO (V S-CORRECTION)

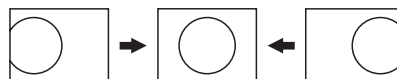


Item 9. HTPZ (H-TRAPEZOID)

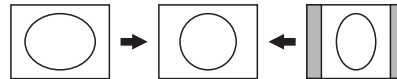


CXA2170D-2

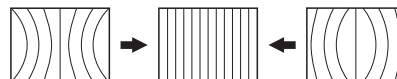
Item 1. HPOS (H-POSITION)



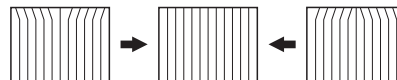
Item 2. HSIZ (H-SIZE)



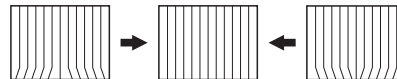
Item 5. PIN (PIN AMP)



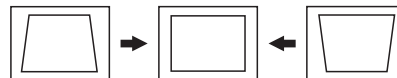
Item 7. UCP (UP COR PIN COR)



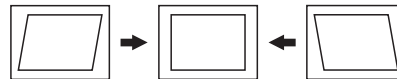
Item 8. LCP (LOW CO PIN COR)



Item 14. PPHA (PIN PHASE)



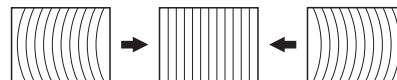
Item 15. VANG (AFC-ANGLE)



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:.....32.5 ± 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 36.4 ± 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 CX 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 33.5 ± 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 **35.7 ± 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) = $3.6 \pm 0.5V$.
7. Remove short from C8012.

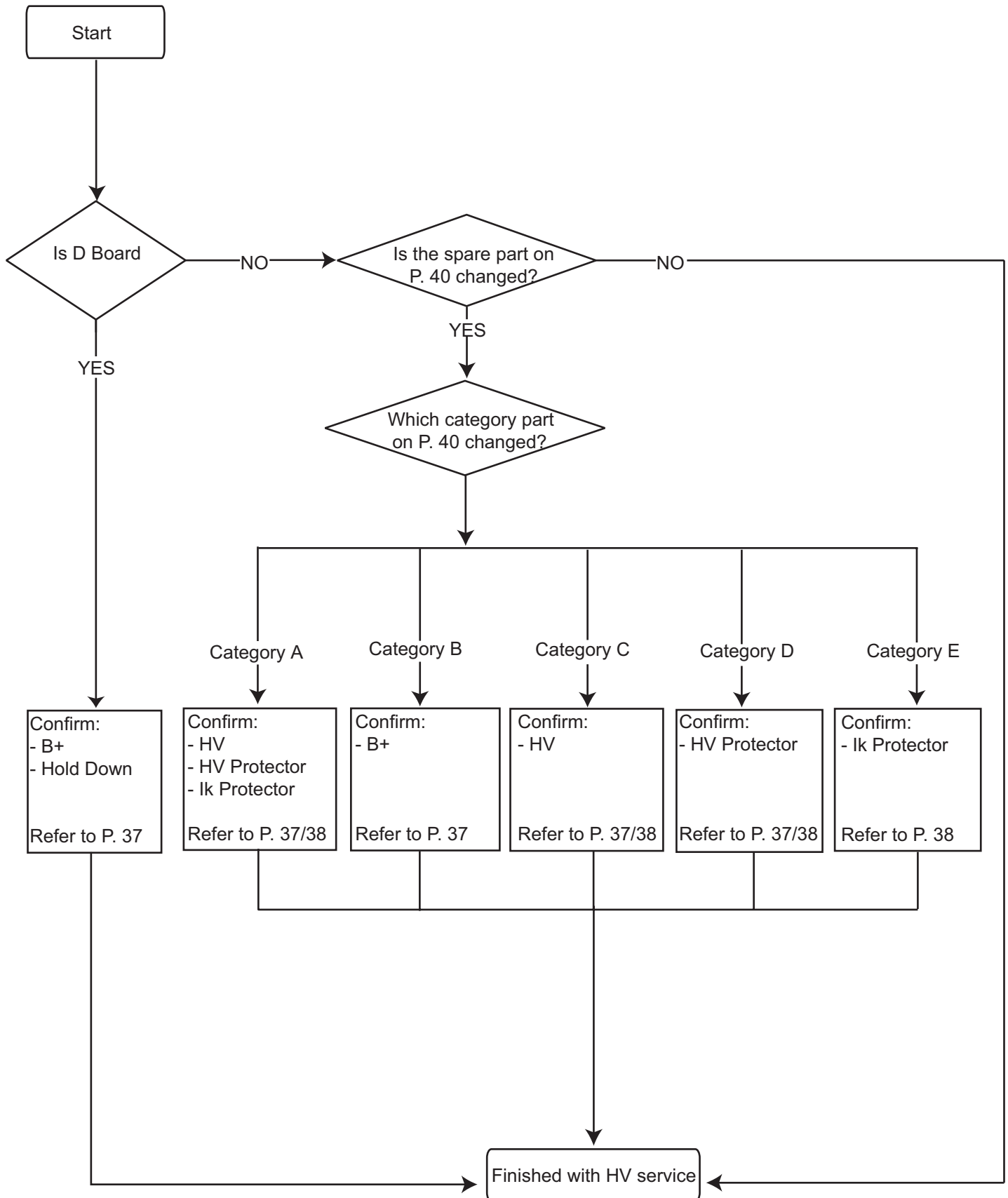
3-8. HOLD DOWN CHECK

1. Using an external DC power supply, apply $5.3 + 0.5 V_{dc}$ 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

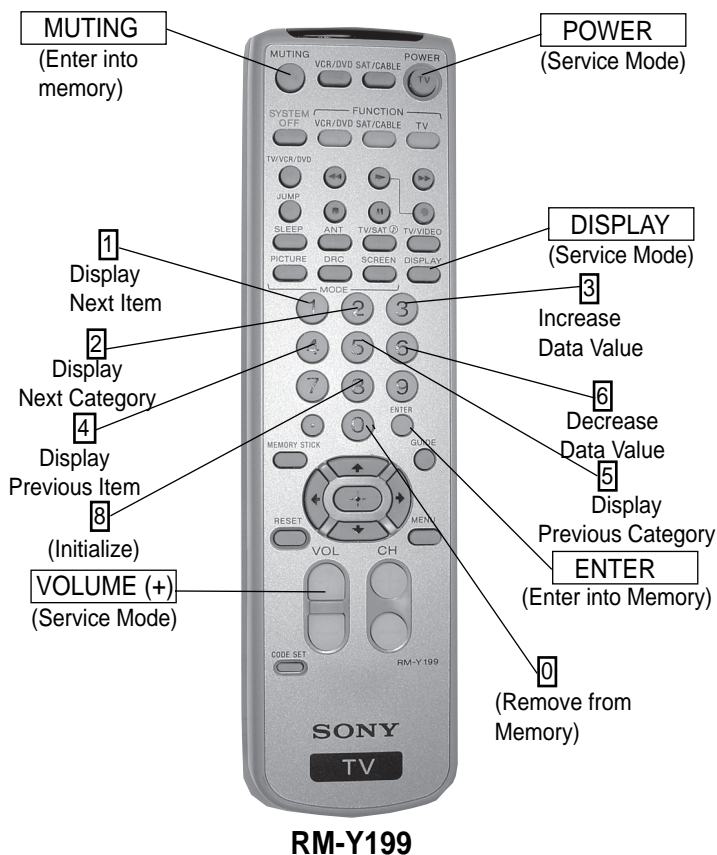
SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y199) 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. REMOTE ADJUSTMENT BUTTONS AND INDICATORS

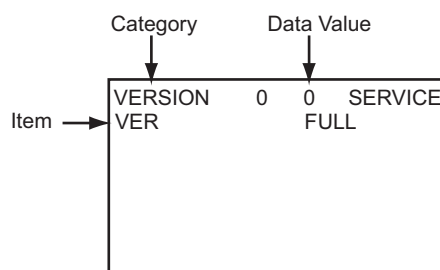


4-2. ACCESSING SERVICE ADJUSTMENT MODE

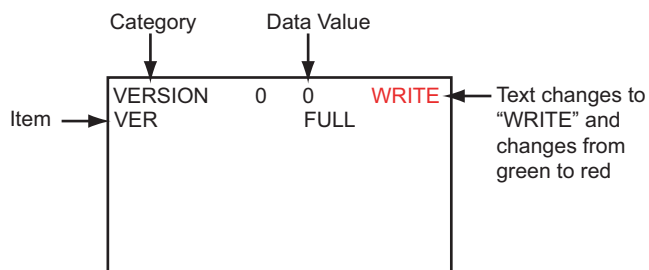
- Standby mode (Power off).
- Press the following buttons on the remote commander within a second of each other:

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

The screen displays the first service data category item.

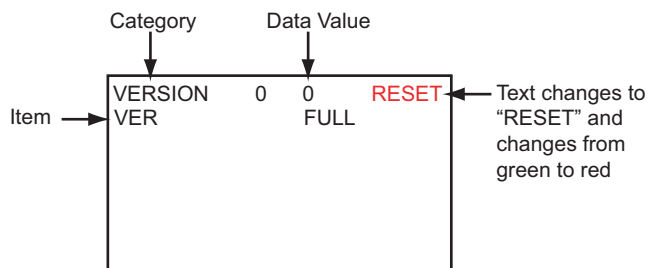


- On the Remote Commander, press **2** or **5** to select the category.
- Press **1** or **4** to select the item.
- Press **3** or **6** to change the data.
- Press **MUTING** then **ENTER** to write into memory.



4-2.1. SERVICE ADJUSTMENT MODE MEMORY

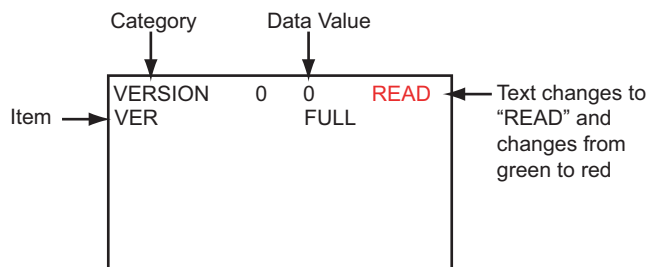
- Access Service Adjustment Mode.
- Press **0** on the Remote Commander to initialize.



- DO NOT turn off set until "SERVICE" appears.

4-2.2. READING THE MEMORY

1. Access Service Adjustment Mode.
2. Press **0** then **ENTER** to read memory.

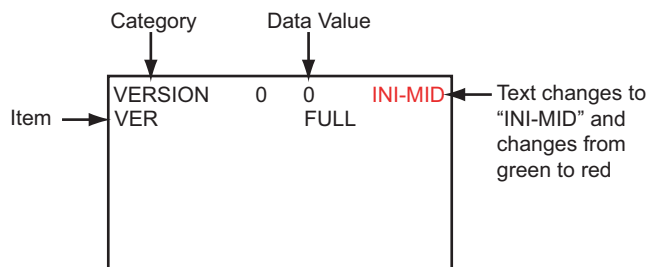


4-3. RESETTING THE DATA

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

4-3.1. RESETTING THE MID NVM DATA

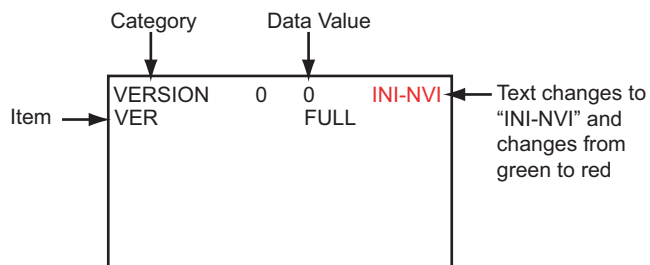
1. Access Service Adjustment Mode.
2. Press **7**, then **JUMP**, and then press **ENTER** on the remote.



4-3.2. RESETTING THE SYSTEM NVM DATA

This resets DEFL adjust and video white balance.

1. Access Service Adjustment Mode.
2. Press **7**, then **9**, and then press **ENTER** on the remote.



4-4. COPY FUNCTION

How to use copy function for DA4 Chassis:

- After writing your adjusted data into NVM, press **MUTING** then **ENTER**, copy can be made by changing copy data from **0** to **1** then **MUTING**, and **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)

4-5. CONFIRMING SERVICE ADJUSTMENT CHANGES

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Access Service Adjustment Mode.
3. Using buttons on Remote Commander, locate items that were adjusted and confirm changes.

4-6.SERVICE DATA

KD-30XS955 SERVICE DATA ONLY

VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
VERSION	0	VER*	0,1	0 *				
	1	DMY1*	0-255	0 *				
3D-COMB	0	NRMD*	0-3	0 *				
	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	3				
				NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
	8	DYCO	0-15	2	2	2	2	
	9	DYGA	0-15	10	10	10	10	
	10	DCCO	0-15	5	5	5	5	
	11	DCGA	0-15	5	5	5	5	
	12	WSC	0-2	1				
	13	WSS	0,1	0				
				Vivid	Standard	Movie	Pro	
	14	VAPG	0-7	4	2	2	0	
	15	VAPI	0-31	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
18	YPFG	0-15	9	6	7	5	5	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 *					

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
2103-1				V5/V6/ATSC	Others	HDMI		
	0	YLEV	0-62	32	22	33		
	1	CLEV	0-63	39	22	36		
				RF	CV/YC			
	2	SCON	0-15	11	12			
	3	SCOL	0-15	5	9			
	4	SHUE	0-15	5	7			
	5	YDLY	0-3	0	0			
				RF	CV/YC	V5/V6	HDMI	ATSC
	6	SHAP	0-15	9	8	4	4	8
	7	SHFO	0-3	0	0	3	3	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	0	1	0	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	23	31	25			
21	CRO1	0-63	24	31	31			
			HDMI/ATSC					
22	CBO2	0-63	19					
23	CRO2	0-63	20					
			Single	BLK = 0	BLK = 1	BLK = 2	BLK = 3	
24	ATPD	0-3	0	1	1	2	0	
25	DCTR	0-3	0	2	1	3	0	

Notes:
Settings applied to CXA2103 (M&S)
Settings also based on 2170P-4/BLK data

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A										
2170P-1				DRC		HDMI	ATSC	V5/V6	PT								
	0	YOSW	0,1	CV/YC	480i	1	1	1	1								
	1	TCOF*	0,1	0 *													
				DRC	V5&6				HDMI			MS / ATSC					
				RF/CV/YC	480i	480p	720p	1080i	480i	480p VGA	720p	1080i	480i	480p	720p	1080i	
	2	YOF	0-15	0	15	13	13	12	13	15	13	15	15	15	10	10	
	3	CBOF	0-63	45	57	44	47	45	52	42	45	45	31	43	45	44	
	4	CROF	0-63	43	57	42	46	45	50	41	46	55	31	42	47	47	
				Color Temp Neutral													
	5	SBRT	0-63	23													
	6	RDRV	0-63	28													
	7	GDRV	0-63	23													
	8	BDRV	0-63	20													
	9	RCUT	0-63	32													
	10	GCUT	0-63	13													
	11	BCUT	0-63	23													
				Color Temp		Cool		Warm		Note: The WBSW setting in Warm can be memorized in NVM.							
	12	WBSW	0,1	0		0											
	13	SBOF	0-15	7		7											
	14	RDOF	0-63	31		31											
15	GDOF	0-63	31		26												
16	BDOF	0-63	34		16												
17	RCOF	0-63	31		31												
18	GCOF	0-63	31		27												
19	BCOF	0-63	34		19												
20	DCOL	0-3	1		0												
2170P-2				Blanking On		Blanking Off		Power Off									
	0	PICO*	0,1	1 *		1 *		0 *									
	1	RGBS*	0-7	0 *		7 *		0 *									
	2	BLKB	0-3	3													
	3	RGBL	0-3	2													
	4	YLMT	0-3	3													
				Aging On		Aging Off											
	5	AGNG*	0-3	2 *		0 *											
	6	AKBO*	0,1	0 *													
				Other MS		ATSC i.Link		HDMI		ATSC PT		HDMI PT		Note; PT=Bypass MID (HDPT=0)			
	7	CLPP	0-3	3		3		3		3		3					
	8	CLPG	0,1	0		0		0		0		0					
	9	CLPS	0,1	0		0		0		0		0					
10	PPAD	0-7	3		3		3		3		3						
11	SYNP	0,1	0		0		0		0		0						
12	HVBT	0,1	0														

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Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	V5/V6					HDMI					MS	Twin	ATSC				
					RF	CV/YC		480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p		
2170P-3	0	SYSM	0-3	Vivid	1	1		1	2	3	3	1	2	2	3	3	3	2	1	2	3	3		
	1	VMLV*	0-15		7*																			
	2	VMCR	0-3		1	2	0	0	2	0	0	0	0	0	0	0	0	0	3	2	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	3	3	3
	4	VMFO	0-3		1	1	1	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0
	5	VMDL	0-15		7	5	7	7	15	15	7	7	7	7	7	15	15	15	7	7	7	7	15	15
	6	SHOF	0-3		2	2	2	2	2	1	2	2	2	2	2	2	1	2	2	2	2	2	2	1
	7	SHFO	0,1		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	0	0	3	3	3	3	3	0	0	3	3
	9	F1LV	0-3		0	0	2	2	1	2	2	2	2	2	2	1	2	1	0	2	2	2	1	2
	10	LTLV	0-3		3	3	3	1	3	3	3	1	1	3	3	3	3	3	3	3	3	1	3	3
	11	LTMD	0,1		1	1	1	0	1	0	1	0	1	0	0	1	0	1	1	1	1	0	1	0
	12	CTLV	0-3		0	0	0	0	3	3	0	0	0	0	0	3	3	3	0	0	0	3	3	
	13	UBOF	0-7		0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	14	UCOF	0-7		2	2	2	2	2	2	2	2	2	2	2	2	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	0	0
	16	MIDE	0-63		7	11	15	19	23	27	15	19	19	23	27	23	56	23	56	15	19	23	27	
	0	SYSM	0-3	Standard	1	1		1	2	3	3	1	2	2	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	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	3	3	3
	4	VMFO	0-3		1	1	1	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0
	5	VMDL	0-15		7	5	7	7	15	15	7	7	7	7	15	15	15	7	7	7	7	15	15	
	6	SHOF	0-3		2	3	2	0	0	1	2	0	0	0	0	0	1	0	0	2	2	0	0	1
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	0	0	3	3	3	3	3	0	0	3	3
	9	F1LV	0-3		0	0	2	2	1	1	2	2	2	2	2	1	0	1	0	2	2	2	1	0
	10	LTLV	0-3		2	2	2	3	3	2	2	3	3	3	3	1	3	3	3	2	3	3	1	1
	11	LTMD	0,1		1	1	1	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	3	3	0	0	0	0	0	3	3	3	0	0	0	3	3	
	13	UBOF	0-7		2	2	2	2	1	1	2	2	2	2	2	1	1	1	1	1	2	2	1	1
	14	UCOF	0-7		2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	1	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	0	0	0
	16	MIDE	0-63		5	10	14	18	22	26	14	18	18	22	26	22	55	22	55	14	18	22	26	
	0	SYSM	0-3	Movie	1	1		1	2	3	3	1	2	2	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	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	3	3	3
	4	VMFO	0-3		1	1	1	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0
	5	VMDL	0-15		5	5	7	7	15	15	7	7	7	7	15	15	15	7	7	7	7	15	15	
	6	SHOF	0-3		1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	2	1	1
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	0	0	3	3	3	3	0	0	3	3	
	9	F1LV	0-3		0	0	1	1	1	0	1	1	1	1	1	0	1	0	1	1	1	1	0	0
	10	LTLV	0-3		1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	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	1	1	1	1
	12	CTLV	0-3		0	0	0	0	2	2	0	0	0	0	0	2	2	2	0	0	0	2	2	
	13	UBOF	0-7		0	0	2	2	0	0	2	2	2	2	2	0	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	0	0	0	0
	15	UHOF	0-3		0	0	0	0	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	17	21	25	21	54	21	54	13	17	21	25	

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Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	V5/V6								MS	Twin	ATSC					
								RF	CV/YC	V5/V6				HDMI				480i	480p	1080i	720p		
										480i	480p	1080i	720p	480i	480p							VGA	1080i
2170P-3	0	SYSM	0-3	Pro	1	1	2	2	3	3	2	2	2	3	3	3	2	2	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	VMDL	0-15		5	5	7	7	15	15	7	7	7	15	15	15	7	7	7	15	15	15	
	6	SHOF	0-3		1	1	2	0	3	1	2	0	0	3	1	2	1	2	0	3	1	1	
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	PROV	0-3		0	0	3	0	3	3	3	0	0	3	3	3	3	3	3	0	3	3	
	9	F1LV	0-3		0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	
	10	LTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	11	LTMD	0,1		1	1	1	1	1	0	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	0	0	
	13	UBOF	0-7		2	0	2	1	1	1	2	1	2	1	1	1	2	2	1	1	1	1	
	14	UCOF	0-7		0	0	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	0	0	
	16	MIDE	0-63		0	8	12	16	20	24	12	16	16	20	24	20	53	12	16	20	24	24	
							Vivid	Standard	Movie	Pro													
	17	VM	0-3		3	3	1	0															
18	VMH	0-15	15	15	12	13																	
19	VMM	0-15	8	8	8	8																	
20	VML	0-15	4	4	4	4																	
21	VGAP	0-15	5																				
22	VGAS	0-15	5																				
23	VGAB	0-15	5																				
24	VGAC	0-15	5																				
25	VGAV	0-15	5																				

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Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A																
2170P-4	0	YCON	0,1	MS 1	Other 1																		
	1	SPIC	0-15	DRC 7	VDO (V5/V6) 7	VDO (HDMI) 7	MS / ATSC 7																
	2	SCOL	0-63	32	32	32	32																
	3	SHUE	0-63	30	30	30	30																
	4	SPIO	0-15	3																			
	5	SCLO	0-15	10																			
	6	SHUO	0-15	7																			
	7	RZR	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	2	3	3	3	3	3	3	3	3	3	3	3
				Standard	1	1	1	2	1	2	1	1	1	2	1	1	1	1	2	1	1	1	1
		Movie	0	0	0	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	0	0	0		
	12	GAMS	0-15	GAMM = 0 0	GAMM = 1 8	GAMM = 2 8	GAMM = 3 8	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	0	3	3	3	3	
				Standard	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	
	Movie	0	0	1	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	0	0				
17	DCTR	0-15	BLK = 0 0	BLK = 1 1	BLK = 2 7	BLK = 3 12	Note: Settings based on BLK data																
18	APED	0-3	0	0	1	2																	
19	DSBO	0-15	7	7	7	7																	
20	IDSW*	0-7	0*																				
21	ABL M	0-3	BLK = 0 0	BLK = 1 1	BLK = 2 0	BLK = 3 1	Note: Settings based on BLK data																
22	ABLT	0-15	Single		MS 1080Vcom VGA 7	Others 7																	
23	SPOF	0-31	0																				
24	DPSQ	0,1	BLK = 0 1	BLK = 1 0	BLK = 2 1	BLK = 3 1	Note: Settings based on BLK data																
25	LRGB	0-15	3																				

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Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A		
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	8	5	4			
	4	CRGN	0-15	8	5	5			
	5	YGN	0-15	9	6	5			
				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					

Note:
PT = Pass Through

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A					
3DNR				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		RF	CV/YC	V5/V6-480i	HDMI	ATSC			
				Vivid	128	128	128	128	128			
				Standard	128	128	128	128	128			
				Movie	128	128	128	128	133			
	Pro	128	128	128	128	133						
	1	ONCT	0-255		RF	CV/YC	V5/V6-480i	HDMI	ATSC			
				Vivid	128	128	128	128	128			
				Standard	128	128	128	128	128			
				Movie	128	133	133	133	128			
	Pro	128	128	133	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	DINI*	0,1	0 *								
	6	RAMW*	0-3	0 *								

KD-30XS955 SERVICE DATA ONLY

HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
MID1	0	DPHH	0-255	101				
	1	DVPH	0-255	40				
	2	DHAR	0-255	240				
	3	DVAR	0-255	135				
	4	DHPW	0-63	55				
	5	DVPW	0-7	5				
					Single			
					480i	Others		
	6	DYCD	0-63	1	2			
					Table-0		Table-1	Table-2
	7	DYSD	0-7	2	2	2	2	
					Single			
					VGA		Others	
					Normal	Others	Normal	Others
	8	MDHP	0-255	47	19	41	0	
					Single			
					480i/480p	VGA	Others	
9	MDVP	0-255	0	10	0			
				Single				
				VGA		Others		
				Normal	Others	Normal	Others	
10	MDHS	0-255	152	0	160	240		
				Single				
				480i/480p	VGA	Others		
11	MDVS	0-255	120	105	135			
				Color Temp Neutral	Color temp Cool	Color temp Warm		
12	DGSB	0-3	0	0	0			
13	DGSR	0-3	0	0	0			
				1080i Single	Others			
14	DPSW	0,1	0	0				
functionID	15	MDLO	0-63	12				
				Single				
				Normal	Others	MemoryStick		
16	BCOL	0-15	0	0	0			
17	DYSS	0-3	1					

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HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A																			
DRCMFV1	0	MFVR	0,1	0																						
				RF	Others																					
	1	FMTH	0-3	1	1																					
	2	FSEL	0,1	1																						
	3	LMIT	0,1	0																						
				Vivid	Standard	Movie	Pro																			
	4	LMLV	0-3	2	2	2	2																			
	5	LMSL	0,1	1																						
	6	VDLY	0-3	1																						
	7	VDPR	0-3	3																						
	8	WPLL	0-3	2																						
9	CRCT	0,1	0																							
			RF	CV/YC	V5/V6	HDMI																				
10	VRA	0-255	0	126	126	126																				
11	VRB	0-255	194	116	116	116																				
ENHA		Enhancement register		RF	CV/YC	V5/V6				HDMI				MS	ATSC											
	0	HSHP	0-255	50	50	480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	50	480i	480p	1080i	720p							
	1	HSFO	0-15	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						
	2	HPOR	0-15	8	8	8	8	8	8	8	8	141	8	8	8	8	8	8	8	8						
	3	HLTL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
	4	HLTM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
	5	HAPL	0-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
	6	HAPA	0-15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8						
	7	HCTL	0-15	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0						
	8	HCTM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
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		Normal	Others	Normal	Others	480i	720p	1080i
	0	DHHP	0-255		77	57	77	57	74	52	38	50	78	50	31	44	78	55	75	75	50	76	86			
	1	DHHS	0-255		162	180	162	182	161	183	178	118	161	180	176	117	161	180	171	171	183	80	121			
	2	DHVP	0-255		27	29	27	29	29	29	40	54	27	27	37	52	24	27	34	34	29	52	37			
3	DHVS	0-255	60	60	60	60	60	60	67	90	60	60	67	90	60	60	60	60	60	90	67					
4	DHVL		0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	4					
MID3				YC	V5/V6			HDMI/ATSC			HDMI	Expansion														
					480i	1080i/MS	720p	480p	480i	1080i	720p	480p	VGA	480i	1080i	720p	480p									
	0	YCPO	0-255	200	200	40	52	75	200	40	52	75	120	200	40	52	75									
	1	CCPO	0-255	200	200	40	52	75	200	40	52	75	120	200	40	52	75									
	2	PRBP	0-1	0	0	1	1	1	0	1	1	1	1	0	1	1	1									
	3	DOSA	0-1	1	1	0	0	0	1	0	0	0	0	1	0	0	0									
	4	YCWD	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
	5	MYCD	0-7	0	0	0	0	0	0	0	0	0	0	0	0	1	0									
	6	PSTP	0-255	254	254	136	180	125	254	136	180	125	254	254	136	180	129									
	7	PSTT	0-15	0	0	0	0	0	0	0	0	0	0	7	0	8	0									
	8	VHSC	0-255	53	53	50	37	53	53	50	37	53	53	50	37	53										
	9	VHSL		19	19	1	16	19	19	1	16	19	19	19	1	16	31									
	10	PLHC	0-255	214	214	100	75	107	214	100	75	107	107	214	100	75	107									
	11	PLHL	0-15	8	8	2	1	4	8	2	1	4	4	8	2	1	4									
12	MDTC	0-3	1	1	2	0	2	1	2	0	2	0	1	2	0	2										
13	MFRV	0,1	0	0	0	0	0	0	0	0	0	0	0	0	0	0										

KD-30XS955 SERVICE DATA ONLY

HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	4	5	6	7	8	9	10	11	12	13	14	15	Var	Format	
MID5	0	POP	0-63	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
	1	MHLY	0-3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	RF P
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	snnr
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	RF M
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	snnr
	5	MHYR	0-3	0	1	1	1	2	2	3	2	0	0	0	2	2	0	0	1	2	4	snnr
	6	MHYL	0-3	0	1	1	1	1	2	2	1	0	1	2	1	1	0	1	1	1	5	RF S
	7	MHYE	0-7	0	2	5	5	6	7	7	6	5	2	4	7	2	0	7	7	6	6	snnr
	8	MHYO	0,1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	7	RF V
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	CV/YC P
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	CV/YC M
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	CV/YC S
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	CV/YC V
	13	MVYR	0-3	0	0	0	0	1	2	2	1	0	1	1	2	0	0	0	1	2	12	V5/V6 480i P
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	1	2	13	V5/V6 480i M
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	4	3	14	V5/V6 480i S	
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	V5/V6 480i V	
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	V5/V6 480p P	
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	V5/V6 480p M	
	19	MENM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	V5/V6 480p S	
	20	MHEL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	V5/V6 480p V	
21	MVEL	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	20	V5/V6 1080i P		
																				21	V5/V6 1080i M	
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27					22	V5/V6 1080i S	
	1	MHLY	0-3	1	1	0	0	0	0	0	0	0	0	0	0					23	V5/V6 1080i V	
	2	MHLC	0-3	3	3	0	0	0	0	0	0	0	0	0	0					24	V5/V6 720p P	
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0					25	V5/V6 720p M	
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0					26	V5/V6 720p S	
	5	MHYR	0-3	0	1	1	2	0	0	0	2	0	0	0	2					27	V5/V6 720p V	
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	2							
	7	MHYE	0-7	4	5	7	7	0	4	6	7	2	4	5	7							
	8	MHYO	0,1	1	1	1	1	0	0	0	1	0	0	1	1							
	9	MHCR	0-3	0	0	0	2	0	0	1	2	0	0	1	2							
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1							
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4							
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1							
	13	MVYR	0-3	0	1	1	2	0	0	0	2	0	0	0	2							
	14	MVYL	0-3	1	1	1	1	1	1	1	0	0	0	1	1							
	15	MVYE	0-7	2	3	7	7	0	2	4	6	0	0	4	4							
	16	MVCR	0-3	0	0	0	2	0	0	1	2	0	0	1	2							
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1							
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4							
	19	MENM	0-1	0	0	0	0	0	0	0	0	0	0	0	0							
	20	MHEL	0-3	0	0	0	0	0	0	0	0	0	0	0	0							
	21	MVEL	0-3	3	3	3	3	3	3	3	3	3	3	3	3							

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DEFLECTION

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A				
2170D-1	0	VPOS	0-63	27							
	1	VSIZ	0-63	46							
					1080Full	Others	Note: Used for PJ only				
	2	VSZO	0-63	0	0						
					WideZoom	Others					
	3	VLIN	0-15	5	5						
	4	VSCO	0-15	11	3						
	5	VCEN	0-63	20							
					1080Vcomp 480Vcomp	Others Expansion Zoom or Zoom-V					
	6	VPIN	0-31	17	21						
	7	MVPN	0-3	0							
	8	NSCO	0-63	31							
	9	HTPZ	0-31	19							
	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	1	
13	ASPT	0-63	21	43	3	0	47	3	43	55	
14	SCRL	0-63	31	31	31	31	31	31	31	31	
				WideZoom	Others	Note: Data variation for 16x9//4x3 models					
15	UVLN	0-15	4	0							
16	LVLN	0-15	4	0							

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DEFLECTION

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
2170D-2	0	HCNT	0-63	30				
				1080Full	Others			
	1	HPOS	0-63	23	26			
				WideZoom	Others	Note: Different settings used for KV-34/30XBR910 models		
	2	HSIZ	0-63	41	42			
	3	SLIN	0-15	5	7			
	4	MPIN	0-15	4	5			
				WideZoom	Others	1080i		
	5	PIN	0-63	27	15	16		
				WideZoom	Zoom	480Full	1080Full	1080Vcomp 480Vcomp
	6	PINO	0-15	7	7	7	9	7
				WideZoom	Others	1080i		
	7	UCP	0-63	40	33	32		
	8	LCP	0-63	45	33	31		
				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	18	22				
15	VANG	0-63	33					
16	LANG	0-63	33					
17	VBOW	0-63	24					
18	LBOW	0-63	35					

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DEFLECTION

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A				
2170D-3	0	HBLK	0,1	1							
				1080Full 1080Vcomp	Others						
	1	LBLK	0-63	50	51						
	2	RBLK	0-63	37	27						
				WideZoom	Zoom	480Full 1080Full	480Vcomp 1080Vcomp	Expansion Zoom or Zoom-V	<i>Note:</i> Data variation for 16x9//4x3 models		
	3	VBLK	0,1	0	0	1	1	0			
				WideZoom	Zoom	480Full	1080Full	1080Vcomp	480Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V
	4	TBLK	0-15	12	7	2	4	10	2	7	2
	5	BBLK	0-15	15	7	8	6	13	8	7	8
				1080Full 1080Vcomp	Others	<i>Note:</i> Data variation for 16x9//4x3 models					
6	AFCM	0-3	2	3							
			1080Vcomp 480Vcomp	Others Expansion Zoom or Zoom-V	<i>Note:</i> Data variation for 16x9//4x3 models						
7	JUMP	0,1	0	0							
			WideZoom	Zoom	480Vcomp 480Full	1080Full	1080Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
8	VDJP	0,1	1	1	0	1	1	1	0		
			1080Vcomp 1080Full	Others							
9	VDST	0,1	0	0							
			WideZoom	Zoom	480Vcomp 480Full	1080Full	1080Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
10	AKBT	0-31	15	15	20	16	16	15	20		
2170D-4				1080Vcomp 480Vcomp	Others	<i>Note:</i> Different settings used for KV-34/30XBR910 models					
	0	QPAM	0-63	22	33						
	1	QPAV	0-63	41	46						
	2	QPAP	0-15	6	6						
	3	QPDC	0-63	43	29						
	4	QPDV	0-63	55	59						
	5	QDPD	0-15	6	6						
				WideZoom	Zoom						
6	CPY1*	0,1	0 *								
			WideZoom	Zoom	<i>Note:</i> Different settings (maybe) for KV-34/30XBR910 models						
7	DF	0-63	37								
8	DQP	0-63	40								

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
2103-1				V5/V6/ATSC	Others	HDMI		
	0	YLEV	0-62	32	22	33		
	1	CLEV	0-63	39	22	36		
				RF	CV/YC			
	2	SCON	0-15	11	12			
	3	SCOL	0-15	5	9			
	4	SHUE	0-15	5	7			
	5	YDLY	0-3	0	0			
				RF	CV/YC	V5/V6	HDMI	ATSC
	6	SHAP	0-15	9	8	4	4	8
	7	SHFO	0-3	0	0	3	3	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	0	1	0	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	23	31	25			
21	CRO1	0-63	24	31	31			
			HDMI/ATSC					
22	CBO2	0-63	19					
23	CRO2	0-63	20					
			Single	BLK = 0	BLK = 1	BLK = 2	BLK = 3	Notes: Settings applied to CXA2103 (M&S) Settings also based on 2170P-4/BLK data
24	ATPD	0-3	0	1	1	2	0	
25	DCTR	0-3	0	2	1	3	0	

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A										
2170P-1					DRC		HDMI	ATSC	V5/V6	PT							
					CV/YC	480i											
	0	YOSW	0,1	1	1	1	1	1	1	1							
	1	TCOF*	0,1	0 *													
					DRC	V5&6				HDMI				MS / ATSC			
					RF/CV/YC	480i	480p	720p	1080i	480i	480p VGA	720p	1080i	480i	480p	720p	1080i
	2	YOF	0-15	0	15	13	13	12	13	15	13	15	15	15	10	10	
	3	CBOF	0-63	45	57	35	47	45	52	42	45	45	31	43	45	44	
	4	CROF	0-63	43	57	37	46	45	50	41	46	55	31	42	47	47	
					Color Temp Neutral												
	5	SBRT	0-63	23													
	6	RDRV	0-63	28													
	7	GDRV	0-63	23													
	8	BDRV	0-63	20													
	9	RCUT	0-63	32													
	10	GCUT	0-63	13													
	11	BCUT	0-63	23													
					Color Temp		Note: The WBSW setting in Warm can be memorized in NVM.										
					Cool	Warm											
	12	WBSW	0,1	0	0												
13	SBOF	0-15	7	7													
14	RDOF	0-63	31	31													
15	GDOF	0-63	31	26													
16	BDOF	0-63	34	16													
17	RCOF	0-63	31	31													
18	GCOF	0-63	31	27													
19	BCOF	0-63	34	19													
20	DCOL	0-3	1	0													
2170P-2					Blanking On	Blanking Off	Power Off										
	0	PICO*	0,1	1 *	1 *	0 *											
	1	RGBS*	0-7	0 *	7 *	0 *											
	2	BLKB	0-3	3													
	3	RGBL	0-3	2													
	4	YLMT	0-3	3													
					Aging On	Aging Off											
	5	AGNG*	0-3	2 *	0 *												
	6	AKBO*	0,1	0 *													
					Other MS	ATSC i.Link	HDMI	ATSC PT	HDMI PT	Note; PT=Bypass MID (HDPT=0)							
	7	CLPP	0-3	3	3	3	3	3									
	8	CLPG	0,1	0	0	0	0	0									
	9	CLPS	0,1	0	0	0	0	0									
10	PPAD	0-7	3	3	3	3	3										
11	SYNP	0,1	0	0	0	0	0										
12	HVBT	0,1	0														

KD-34XS955 SERVICE DATA ONLY

VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A																
								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	2	3	3	1	2	2	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	0	3	2	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	3	3
	4	VMFO	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0
	5	VMDL	0-15		7	5	7	7	15	15	7	7	7	15	15	15	7	7	7	15	15	15	
	6	SHOF	0-3		2	2	2	2	1	1	2	2	2	1	1	2	2	2	2	2	2	1	
	7	SHFO	0,1		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	3	3	0	0	3	3
	9	F1LV	0-3		0	0	2	2	1	2	2	2	2	1	2	1	0	2	2	1	2		
	10	LTLV	0-3		3	3	3	1	3	3	3	1	1	3	3	3	3	3	3	1	3	3	
	11	LTMD	0,1		1	1	1	0	1	0	1	0	0	1	0	1	1	1	1	0	1	0	
	12	CTLV	0-3		0	0	0	3	3	0	0	0	3	3	3	0	0	0	3	3			
	13	UBOF	0-7		0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
	14	UCOF	0-7		2	2	2	2	2	2	2	2	2	2	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	15	19	19	23	27	23	56	15	19	23	27		
	0	SYSM	0-3	Standard	1	1	1	2	3	3	1	2	2	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	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	3	
	4	VMFO	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	
	5	VMDL	0-15		7	5	7	7	15	15	7	7	7	15	15	15	7	7	7	15	15		
	6	SHOF	0-3		2	3	2	0	0	1	2	0	0	0	1	0	2	2	0	0	1		
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	3	0	0	3	3	
	9	F1LV	0-3		0	0	2	1	1	1	2	2	2	1	0	1	0	2	2	1	0		
	10	LTLV	0-3		2	2	2	3	3	2	2	3	3	1	3	3	3	2	3	3	1		
	11	LTMD	0,1		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	3	3	0	0	0	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	1	1	1	0	1	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	18	22	26	22	55	14	18	22	26		
	0	SYSM	0-3	Movie	1	1	1	2	3	3	1	2	2	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	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	3	
	4	VMFO	0-3		1	1	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	
	5	VMDL	0-15		7	5	7	7	15	15	7	7	7	15	15	15	7	7	7	15	15		
	6	SHOF	0-3		1	1	1	2	1	1	2	2	1	1	1	1	1	1	2	1	1		
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	8	PROV	0-3		0	0	0	0	3	3	0	0	0	3	3	3	3	0	0	3	3		
	9	F1LV	0-3		0	0	1	1	0	1	1	1	1	0	1	0	1	1	1	1	0		
	10	LTLV	0-3		1	1	1	2	1	1	1	2	2	1	1	1	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	1		
	12	CTLV	0-3		0	0	0	0	2	2	0	0	2	2	2	0	0	0	0	2	2		
	13	UBOF	0-7		0	0	2	2	0	0	2	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	0		
	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		3	9	13	17	21	25	13	17	17	21	25	21	54	13	17	21	25		

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	V5/V6					HDMI				MS	Twin	ATSC				
					RF	CV/YC					480i	480p	VGA	1080i	720p								
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p	MS	Twin	480i	480p	1080i	720p		
2170P-3	0	SYSM	0-3	Pro	1	1	2	2	3	3	2	2	2	3	3	3	2	2	2	2	3	3	
	1	VMLV*	0-15		7 *																		
	2	VMCR	0-3		1	0	0	0	0	0	0	0	0	0	0	0	0	3	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	3	3
	4	VMFO	0-3		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	VMDL	0-15		5	5	7	7	15	15	7	7	7	15	15	15	7	7	7	15	15	15	
	6	SHOF	0-3		1	1	2	0	3	1	2	0	0	3	1	2	1	2	1	2	0	3	1
	7	SHFO	0,1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	PROV	0-3		0	0	3	0	3	3	3	0	0	3	3	3	3	3	3	0	3	3	3
	9	F1LV	0-3		0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	0
	10	LTLV	0-3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	LTMD	0,1		1	1	1	1	1	0	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	0	0	0
	13	UBOF	0-7		2	0	2	1	1	1	2	1	2	1	1	1	1	2	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	0	0	0
	15	UHOF	0-3		0	0	0	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	16	20	24	20	53	12	16	20	24	24		
					Vivid	Standard	Movie	Pro															
	17	VM	0-3	3	3	1	0																
	18	VMH	0-15	15	15	12	13																
	19	VMM	0-15	8	8	8	8																
	20	VML	0-15	4	4	4	4																
	21	VGAP	0-15	5																			
	22	VGAS	0-15	5																			
	23	VGAB	0-15	5																			
24	VGAC	0-15	5																				
25	VGAV	0-15	5																				
2170P-4	0	YCON	0,1	MS	Other																		
					DRC	VDO (V5/V6)	VDO (HDMI)	MS / ATSC	PT	Note: PT = Pass Through (By pass MID)													
	1	SPIC	0-15	7	7	7	7	7	7														
	2	SCOL	0-63	32	32	32	32	32	31														
	3	SHUE	0-63	30	30	30	30	30	31														
	4	SPIO	0-15	3																			
	5	SCLO	0-15	10																			
	6	SHUO	0-15	7																			
					Normal	Special Axis																	
	7	RZR	0-15	8	15																		
	8	RYB	0-15	9	15																		
	9	GYR	0-15	9	9																		
	10	GYB	0-15	6	3																		
					RF	CV/YC	V5/V6				HDMI				MS	Twin	ATSC						
							480i	480p	1080i	720p	480i	480p	VGA	1080i	720p			480i	480p	1080i	720p		
11	GAMM	0-3	Vivid	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3			
			Standard	1	1	1	2	1	2	1	1	2	1	1	1	2	1	1	1	1			
			Movie	0	0	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	0	0		
				GAMM = 0	GAMM = 1	GAMM = 2	GAMM = 3	Note: Settings based on GAMM data															
12	GAMS	0-15	0	8	8	8																	
13	GAMR	0-15	0	4	6	12																	
14	GAMG	0-15	0	4	6	12																	
15	GAMB	0-15	0	4	6	12																	

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Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	V5/V6				HDMI				MS	Twin	ATSC					
2170P-4	16	BLK	0-3		RF	CV/YC		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	0	3	3	3	3	
				Standard	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	
				Movie	0	0	1	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		
					BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data														
	17	DCTR	0-15	0	1	7	12																
	18	APED	0-3	0	0	1	2																
	19	DSBO	0-15	7	7	7	7																
	20	IDSW*	0-7	0*																			
				BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data															
				Single		Others																	
				Others	MS 1080Vcom VGA	Others																	
22	ABLT	0-15	0	7	7																		
23	SPOF	0-31	0																				
				BLK = 0	BLK = 1	BLK = 2	BLK = 3	Note: Settings based on BLK data															
24	DPSQ	0,1	1	0	1	1																	
25	LRGB	0-15	3																				

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A		
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		Note: PT = Pass Through	
				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	8	5	4			
	4	CRGN	0-15	8	5	5			
	5	YGN	0-15	9	6	5			
				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					

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VIDEO & AUDIO

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A				
3DNR				Vivid		Standard		Movie		Pro	
				480i	Others	480i	Others	480i	Others	480i	Others
	43	YEL	0-15	6	4	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							
				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	128	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	133	133	128	
				SNNR = 1	SNNR = 2	SNNR = 3	SNNR = 4	SNNR = 5	SNNR = 6	SNNR = 7	
	2	NRA	0-255	0	0	0	0	0	0	0	
	3	NRB	0-255	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		DINI*	0,1	0 *							
6	RAMW*	0-3	0 *								

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HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
MID1	0	DHPH	0-255	101				
	1	DVPH	0-255	40				
	2	DHAR	0-255	240				
	3	DVAR	0-255	135				
	4	DHPW	0-63	55				
	5	DVPW	0-7	5				
					Single			
					480i	Others		
	6	DYCD	0-63	1	2			
					Table-0	Table-1	Table-2	Table-3
	7	DYSD	0-7	2	2	2	2	
					Single			
					VGA		Others	
					Normal	Others	Normal	Others
	8	MDHP	0-255	47	19	41	0	
					Single			
					480i/480p	VGA	Others	
9	MDVP	0-255	0	10	0			
				Single				
				VGA		Others		
				Normal	Others	Normal	Others	
10	MDHS	0-255	152	0	160	240		
				Single				
				480i/480p	VGA	Others		
11	MDVS	0-255	120	105	135			
				Color Temp Neutral	Color temp Cool	Color temp Warm		
12	DGSB	0-3	0	0	0			
13	DGSR	0-3	0	0	0			
				1080i Single	Others			
14	DPSW	0,1	0	0				
functionID	15	MDLO	0-63	12				
				Single				
				Normal	Others	MemoryStick		
16	BCOL	0-15	0	0	0			
17	DYSS	0-3	1					
DRCMFV1	0	MFVR	0,1	0				
				RF	Others			
	1	FMTH	0-3	1	1			
	2	FSEL	0,1	1				
	3	LMIT	0,1	0				
					Vivid	Standard	Movie	Pro
	4	LMLV	0-3	2	2	2	2	
	5	LMSL	0,1	1				
	6	VDLY	0-3	1				
	7	VDPR	0-3	3				
	8	WPLL	0-3	2				
9	CRCT	0,1	0					
				RF	CV/YC	V5/V6	HDMI	
10	VRA	0-255	0	126	126	126		
11	VRB	0-255	194	116	116	116		

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HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A																
ENHA		Enhancement register		RF	CV/YC	V5/V6				HDMI				MS	ATSC								
						480i	480p	1080i	720p	480i	480p	VGA	1080i	720p		480i	480p	1080i	720p				
	0	HSHP	0-255	50	50	50	60	70	70	50	60	50	60	60	50	50	60	60	60	60			
	1	HSFO	0-15	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13			
	2	HPOR	0-15	8	8	8	8	8	8	8	8	141	8	8	8	8	8	8	8	8			
	3	HLTL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	HLTM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	HAPL	0-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6	HAPA	0-15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
7	HCTL	0-15	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0				
8	HCTM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
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	0-255		77	57	77	57	74	52	38	50	78	50	31	44	78	55	75	75	50	76	86
	1	DHHS	0-255		162	180	162	182	161	183	178	118	161	180	176	117	161	180	171	171	183	80	121
	2	DHVP	0-255		27	29	27	29	29	29	40	54	27	27	37	52	24	27	34	34	29	52	37
3	DHVS	0-255	60	60	60	60	60	60	67	90	60	60	67	90	60	60	60	60	60	90	67		
4	DHVL		0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	4	
MID3				YC	V5/V6				HDMI/ATSC				HDMI	Expansion									
					480i	1080i/MS	720p	480p	480i	1080i	720p	480p	VGA	480i	1080i	720p	480p						
	0	YCPO	0-255	200	200	40	52	75	200	40	52	75	120	200	40	52	75						
	1	CCPO	0-255	200	200	40	52	75	200	40	52	75	120	200	40	52	75						
	2	PRBP	0-1	0	0	1	1	1	0	1	1	1	1	0	1	1	1						
	3	DOSA	0-1	1	1	0	0	0	1	0	0	0	0	1	0	0	0						
	4	YCWD	0-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
	5	MYCD	0-7	0	0	0	0	0	0	0	0	0	0	0	0	1	0						
	6	PSTP	0-255	254	254	136	180	125	254	136	180	125	254	254	136	180	129						
	7	PSTT	0-15	0	0	0	0	0	0	0	0	0	0	7	0	8	0						
	8	VHSC	0-255	53	53	50	37	53	53	50	37	53	53	50	37	53							
	9	VHSL		19	19	1	16	19	19	1	16	19	19	19	1	16	31						
	10	PLHC	0-255	214	214	100	75	107	214	100	75	107	107	214	100	75	107						
	11	PLHL	0-15	8	8	2	1	4	8	2	1	4	4	8	2	1	4						
12	MDTC	0-3	1	1	2	0	2	1	2	0	2	0	1	2	0	2							
13	MFRV	0,1	0	0	0	0	0	0	0	0	0	0	0	0	0	0							

KD-34XS955 SERVICE DATA ONLY

HELIOS

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	4	5	6	7	8	9	10	11	12	13	14	15	Var	Format	
MID5	0	POP	0-63	0	1	2	3													0	RF P	
	1	MHLY	0-3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	snnr
	2	MHLC	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	RF M
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	snnr
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	snnr
	5	MHYR	0-3	0	1	1	1	2	2	3	2	0	0	2	2	0	0	0	1	2	5	RF S
	6	MHYL	0-3	0	1	1	1	1	2	2	1	0	1	2	1	1	0	0	1	1	6	snnr
	7	MHYE	0-7	0	2	5	5	6	7	7	6	5	2	4	7	2	0	0	7	7	7	RF V
	8	MHYO	0,1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	8	CV/YC P
	9	MHCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	CV/YC M
	10	MHCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	CV/YC S
	11	MHCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	CV/YC V
	12	MHCO	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	2005 DA4
	13	MVYR	0-3	0	0	0	0	1	2	2	1	0	1	1	2	0	0	0	1	2	13	5/V6 480i All 480i P
	14	MVYL	0-3	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	1	2	14	5/V6 480i All 480i M
	15	MVYE	0-7	0	0	0	0	1	1	1	1	0	3	3	3	0	0	0	4	3	15	5/V6 480i All 480i S
	16	MVCR	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	5/V6 480i All 480i V
	17	MVCL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	/V6 480p All 480p P
	18	MVCE	0-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	/V6 480p All 480p M
	19	MENM	0-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	/V6 480p All 480p S
	20	MHEL	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	/V6 480p All 480p V
21	MVEL	0-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	21	/V6 1080i All 1080i P	
	0	POP	0-63	16	17	18	19	20	21	22	23	24	25	26	27					22	/V6 1080i All 1080i S	
	1	MHLY	0-3	1	1	0	0	0	0	0	0	0	0	0	0					23	/V6 1080i All 1080i V	
	2	MHLC	0-3	3	3	0	0	0	0	0	0	0	0	0	0					24	/V6 720p All 720p P	
	3	MVLY	0-3	0	0	0	0	0	0	0	0	0	0	0	0					25	/V6 720p All 720p M	
	4	MVLC	0-3	0	0	0	0	0	0	0	0	0	0	0	0					26	/V6 720p All 720p S	
	5	MHYR	0-3	0	1	1	2	0	0	0	2	0	0	0	2					27	/V6 720p All 720p V	
	6	MHYL	0-3	1	1	1	1	0	1	1	1	1	1	1	2							
	7	MHYE	0-7	4	5	7	7	0	4	6	7	2	4	5	7							
	8	MHYO	0,1	1	1	1	1	0	0	0	1	0	0	1	1							
	9	MHCR	0-3	0	0	0	2	0	0	1	2	0	0	1	2							
	10	MHCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1							
	11	MHCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4							
	12	MHCO	0-1	0	0	0	0	0	0	1	1	0	0	1	1							
	13	MVYR	0-3	0	1	1	2	0	0	0	2	0	0	0	2							
	14	MVYL	0-3	1	1	1	1	1	1	1	0	0	0	1	1							
	15	MVYE	0-7	2	3	7	7	0	2	4	6	0	0	4	4							
	16	MVCR	0-3	0	0	0	2	0	0	1	2	0	0	1	2							
	17	MVCL	0-3	0	0	0	0	0	0	1	1	0	0	1	1							
	18	MVCE	0-7	0	0	0	0	0	0	4	4	0	0	4	4							
	19	MENM	0-1	0	0	0	0	0	0	0	0	0	0	0	0							
	20	MHEL	0-3	0	0	0	0	0	0	0	0	0	0	0	0							
	21	MVEL	0-3	3	3	3	3	3	3	3	3	3	3	3	3							

KD-34XS955 SERVICE DATA ONLY

DEFLECTION

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A				
2170D-1	0	VPOS	0-63	27							
	1	VSIZ	0-63	46							
					1080Full	Others	Note: Used for PJ only				
	2	VSZO	0-63	0	0						
					WideZoom	Others					
	3	VLIN	0-15	5	5						
	4	VSCO	0-15	11	3						
	5	VCEN	0-63	20							
					1080Vcomp	Others					
					480Vcomp	Expansion Zoom or Zoom-V					
	6	VPIN	0-31	17	21						
	7	MVPN	0-3	0							
	8	NSCO	0-63	31							
	9	HTPZ	0-31	19							
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	1	
13	ASPT	0-63	21	43	3	0	47	3	43	55	
14	SCRL	0-63	31	31	31	31	31	31	31	31	
				WideZoom	Others	Note: Data variation for 16x9//4x3 models					
15	UVLN	0-15	4	0							
16	LVLN	0-15	4	0							

KD-34XS955 SERVICE DATA ONLY

DEFLECTION

Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A	
2170D-2	0	HCNT	0-63	30				
				1080Full 1080Vcomp	Others			
	1	HPOS	0-63	23	26			
				WideZoom	Others	Note: Different settings used for KV-34/30XBR910 models		
	2	HSIZ	0-63	41	42			
	3	SLIN	0-15	5	7			
	4	MPIN	0-15	4	5			
				WideZoom	Others	1080i		
	5	PIN	0-63	27	15	16		
				WideZoom	Zoom	480Full	1080Full	1080Vcomp 480Vcomp
	6	PINO	0-15	7	7	7	9	7
				WideZoom	Others	1080i		
	7	UCP	0-63	40	33	32		
	8	LCP	0-63	45	33	31		
				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	18	22				
15	VANG	0-63	33					
16	LANG	0-63	33					
17	VBOW	0-63	24					
18	LBOW	0-63	35					

KD-34XS955 SERVICE DATA ONLY

DEFLECTION

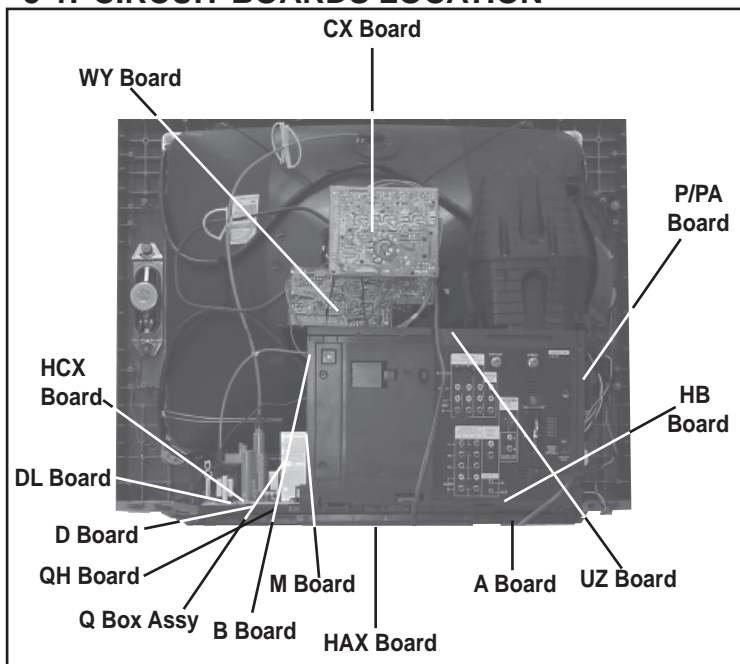
Category	No	Item	Range	* NOT be memorized	Fix data	Adjustment data at CBA	Adjustment data at F/A				
2170D-3	0	HBLK	0,1	1							
				1080Full 1080Vcomp	Others						
	1	LBLK	0-63	50	51						
	2	RBLK	0-63	37	27						
				WideZoom	Zoom	480Full 1080Full	480Vcomp 1080Vcomp	Expansion Zoom or Zoom-V	Note: Data variation for 16x9//4x3 models		
	3	VBLK	0,1	0	0	1	1	0			
				WideZoom	Zoom	480Full	1080Full	1080Vcomp	480Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V
	4	TBLK	0-15	12	7	2	4	10	2	7	2
	5	BBLK	0-15	15	7	8	6	13	8	7	8
				1080Full 1080Vcomp	Others	Note: Data variation for 16x9//4x3 models					
6	AFCM	0-3	2	3							
			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	1080Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
8	VDJP	0,1	1	1	0	1	1	1	0		
			1080Vcomp 1080Full	Others							
9	VDST	0,1	0	0							
			WideZoom	Zoom	480Vcomp 480Full	1080Full	1080Vcomp	HD (1080i/720p) Expansion Zoom or Zoom-V	SD (16:9 Aspect signal) Expansion Zoom or Zoom-V		
10	AKBT	0-31	15	15	20	16	16	15	20		
2170D-4				1080Vcomp 480Vcomp	Others	Note: Different settings used for KV-34/30XBR910 models					
	0	QPAM	0-63	22	33						
	1	QPAV	0-63	41	46						
	2	QPAP	0-15	6	6						
	3	QPDC	0-63	43	29						
	4	QPDV	0-63	55	59						
	5	QDPD	0-15	6	6						
				WideZoom	Zoom						
6	CPY1*	0,1	0 *								
7	DF	0-63	37	Note: Different settings (maybe) for KV-34/30XBR910 models							
8	DQP	0-63	40								

4-7. ID MAP TABLE

No	Item	Range	Fix data				
			30XS955		34XS955		
			US	HAWAII	US	CND	HAWAII
0	ID0	0-255	89	89	89	89	89
1	ID1	0-255	255	255	255	255	255
2	ID2	0-255	255	255	255	255	255
3	ID3	0-255	110	110	110	94	110
4	ID4	0-255	207	203	203	203	203
5	ID5	0-255	207	207	207	207	207
6	ID6	0-255	62	62	62	62	62
7	ID7	0-255	17	17	17	17	17

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

The components identified by \square 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 \square , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by \square 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 (\square)	Adjustment (\square)
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

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. $\text{k}\Omega=1000\Omega$, $\text{M}\Omega=1000\text{k}\Omega$

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
 Rating electrical power : $\frac{1}{4}\text{W}$

$\frac{1}{4}\text{W}$ in resistance, $\frac{1}{10}\text{W}$ and $\frac{1}{16}\text{W}$ in chip resistance.

\square : nonflammable resistor

\square : fusible resistor

\triangle : internal component

\square : panel designation and adjustment for repair

\perp : earth ground

\perp : 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 $10\text{M}\Omega$ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

\square : B+line.

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

\Rightarrow : signal path. (RF)

Circled numbers are waveform references.

REFERENCE INFORMATION

RESISTOR

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

COIL

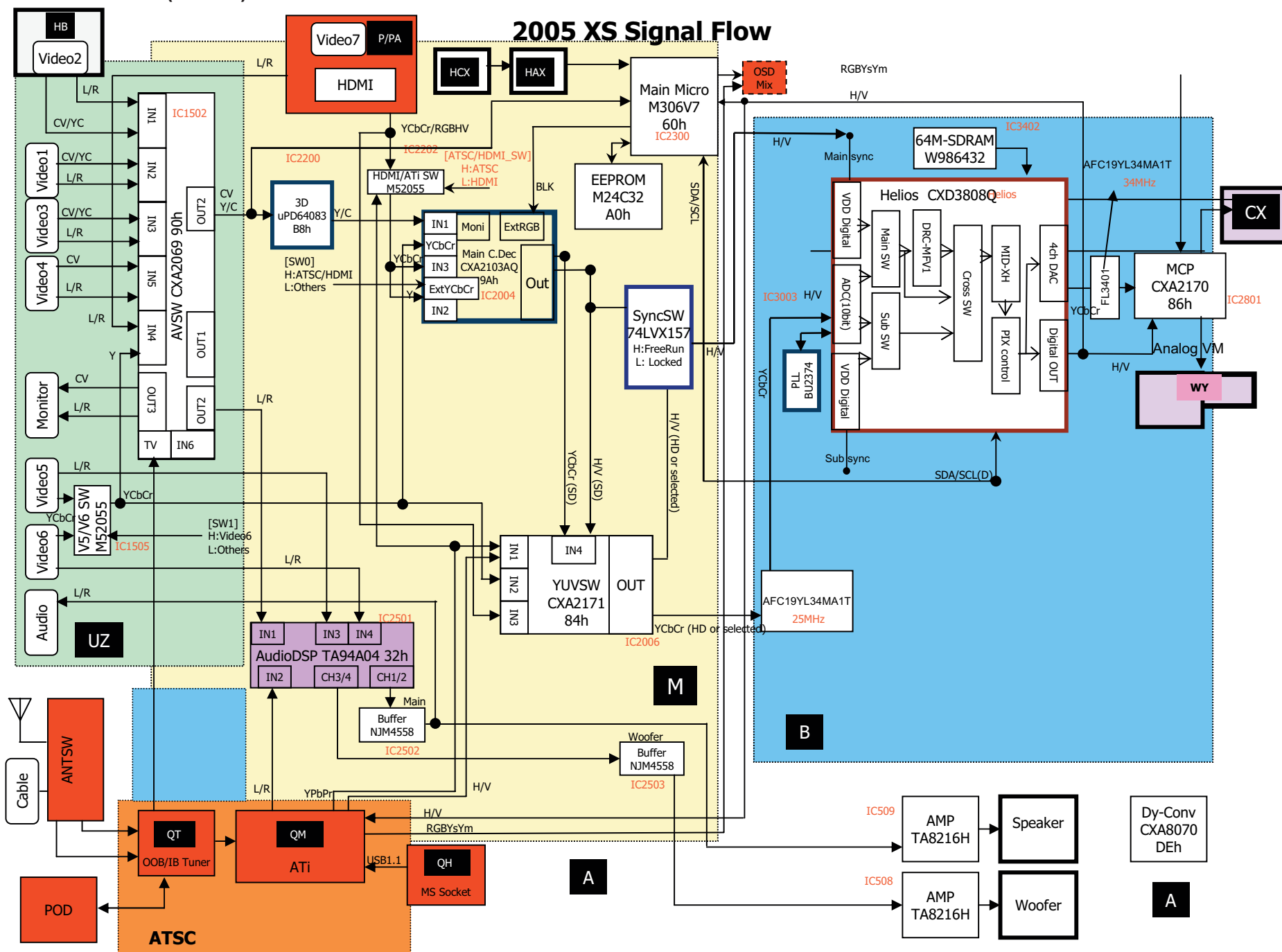
- : LF-8L MICRO INDUCTOR

CAPACITOR

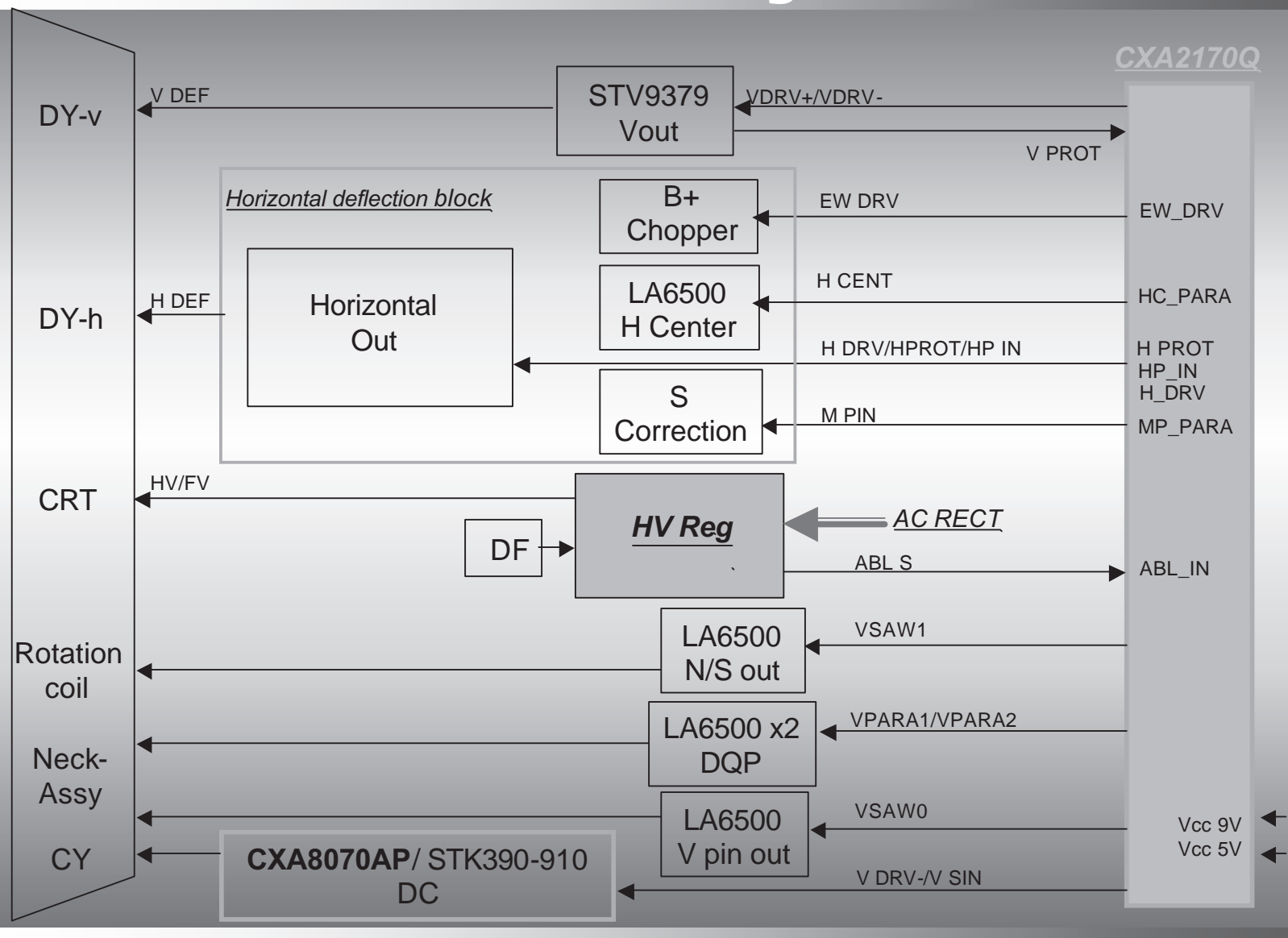
- : TA TANTALUM
- : PS STYROL
- : PP POLYPROPYLENE
- : PT MYLAR
- : MPS METALIZED POLYESTER
- : MPP METALIZED POLYPROPYLENE
- : ALB BIPOLAR
- : ALT HIGH TEMPERATURE
- : ALR HIGH RIPPLE

5-3.BLOCK DIAGRAMS

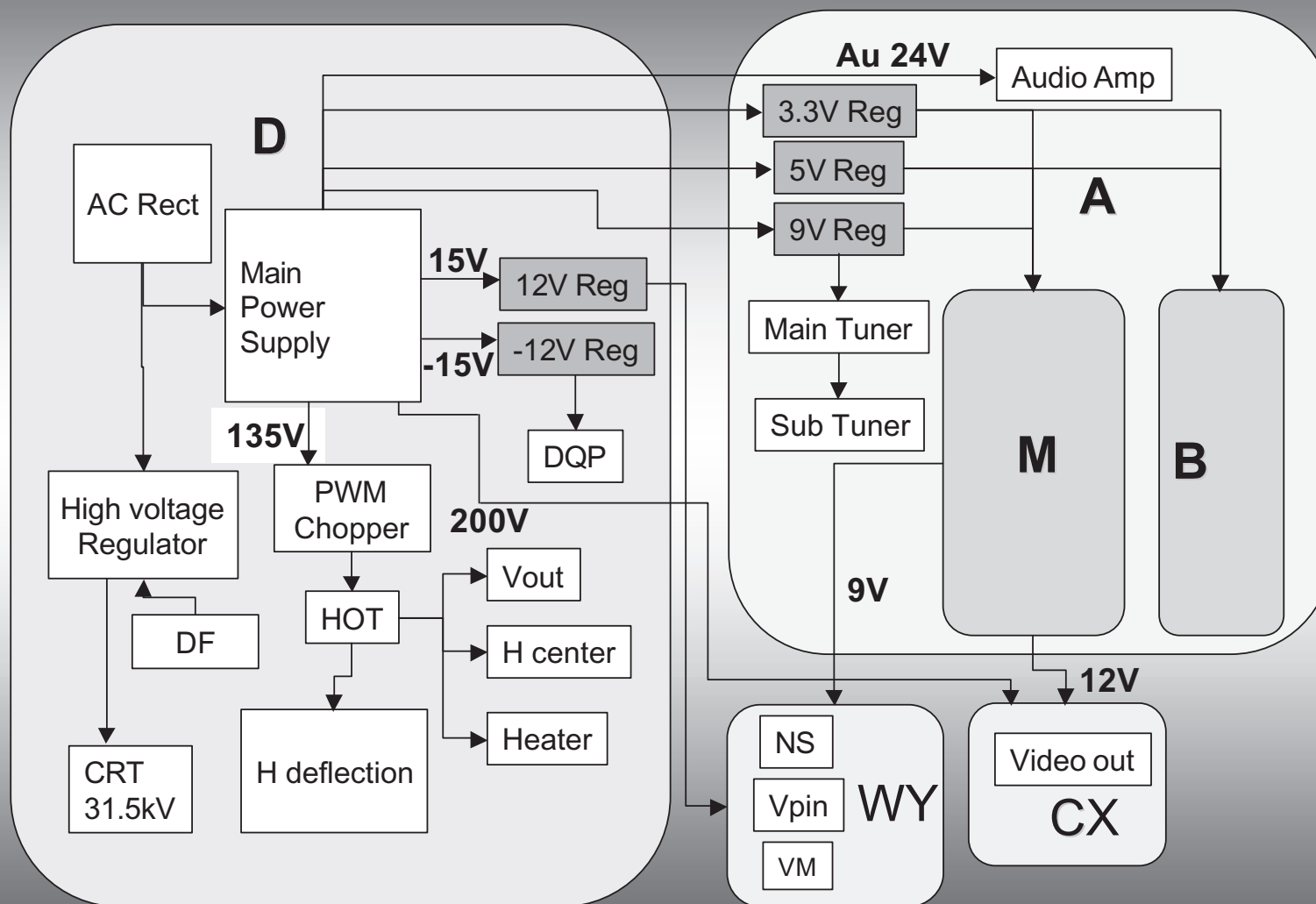
BLOCK DIAGRAMS (1 OF 3)



Deflection & HV System Block



Power Supply Load Map

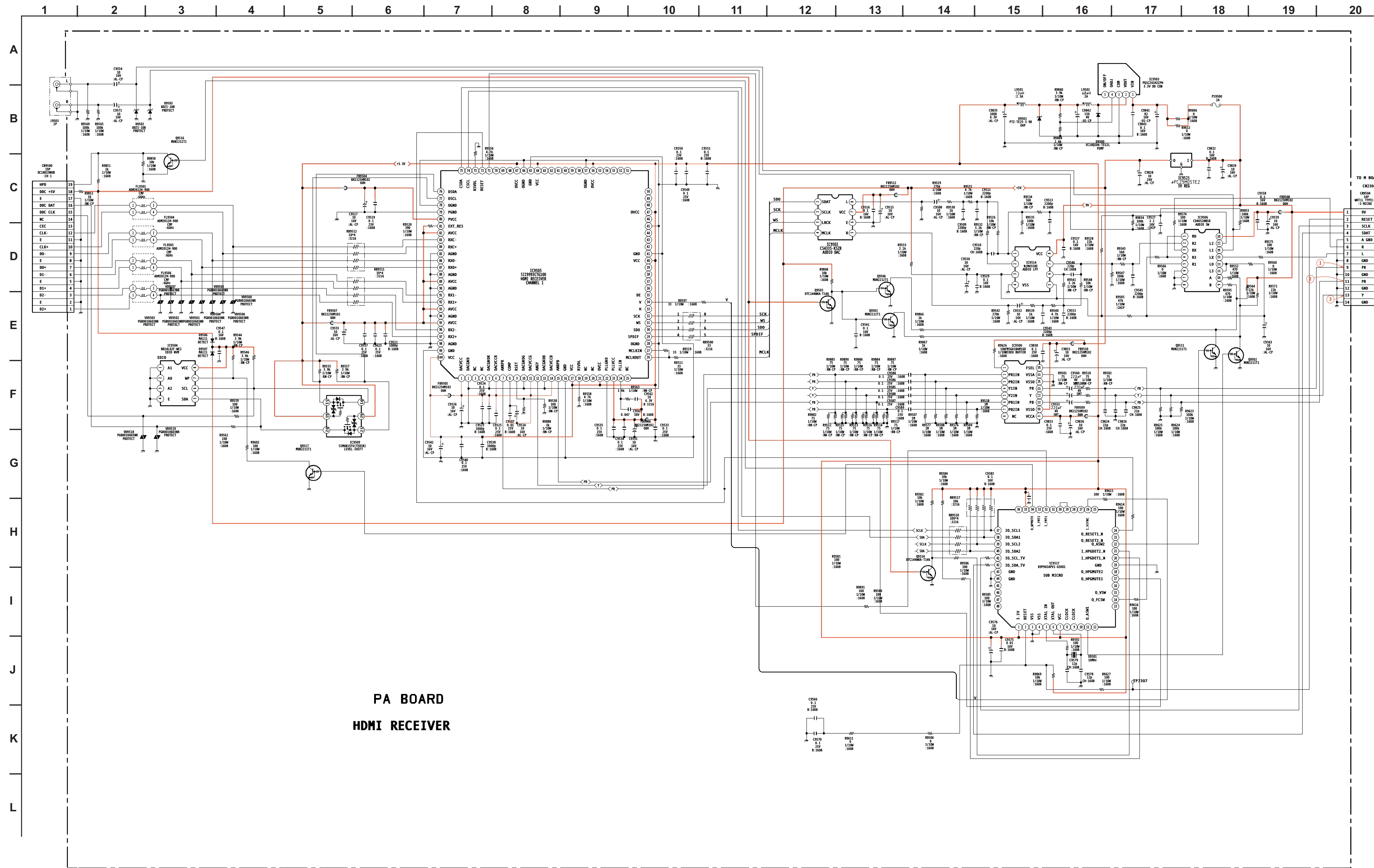


5-4.SCHEMATICS AND SUPPORTING INFORMATION

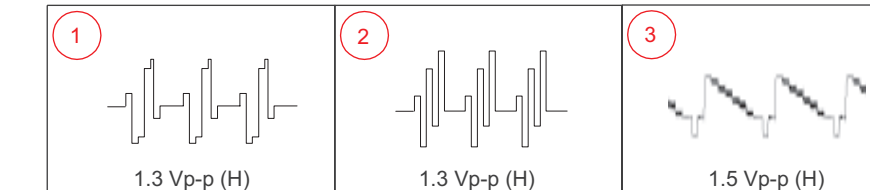
PA BOARD SCHEMATIC DIAGRAM

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.

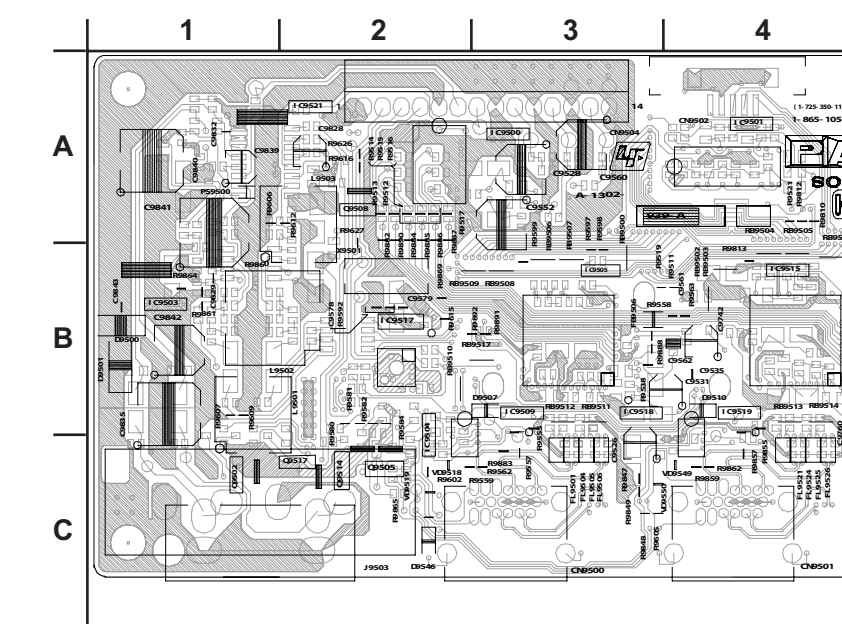
The P and PA Boards are interchangeable. Either board can be used as a replacement.



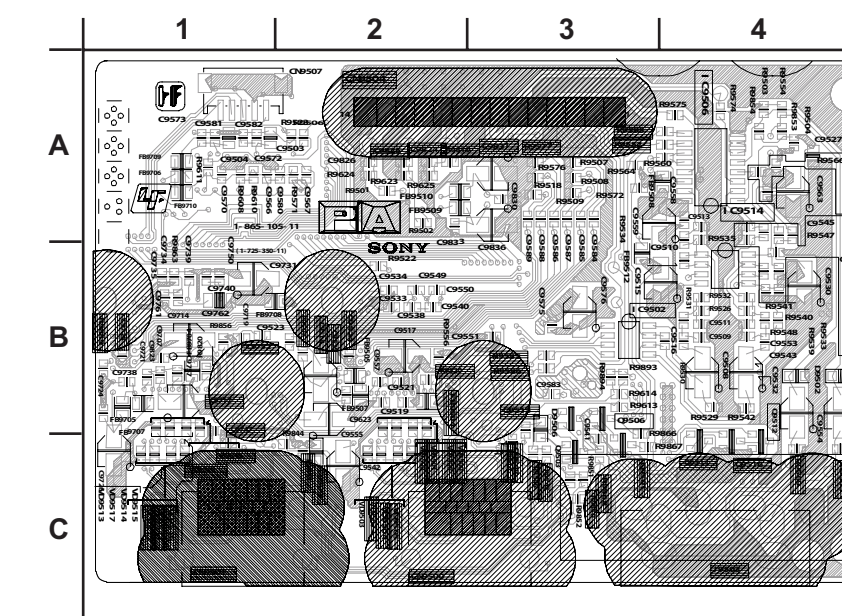
P/PA BOARD WAVEFORMS



PA [HDMI RECEIVER] COMPONENT SIDE



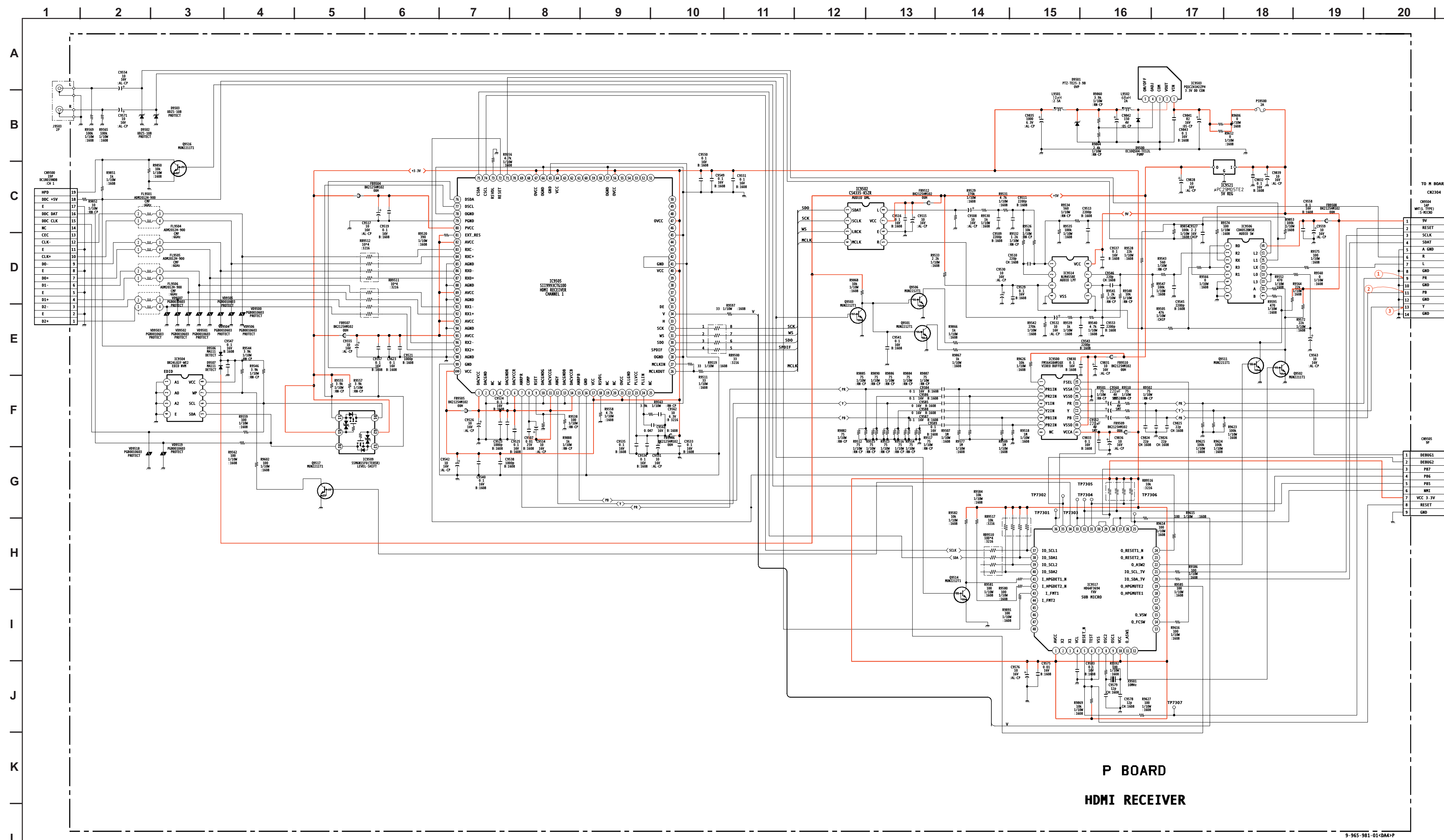
PA [HDMI RECEIVER] CONDUCTOR SIDE



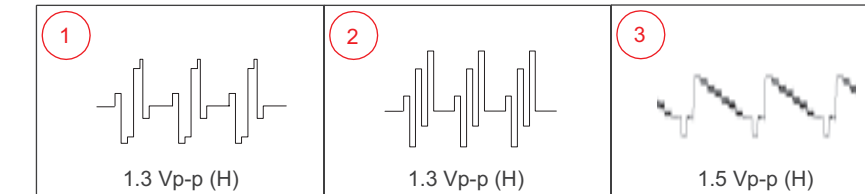
P BOARD SCHEMATIC DIAGRAM

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.

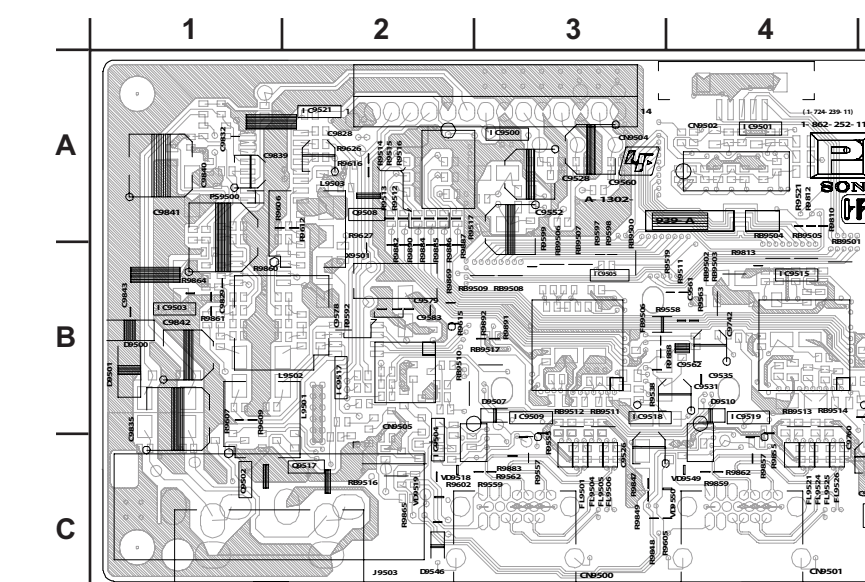
The P and PA Boards are interchangeable. Either board can be used as a replacement.



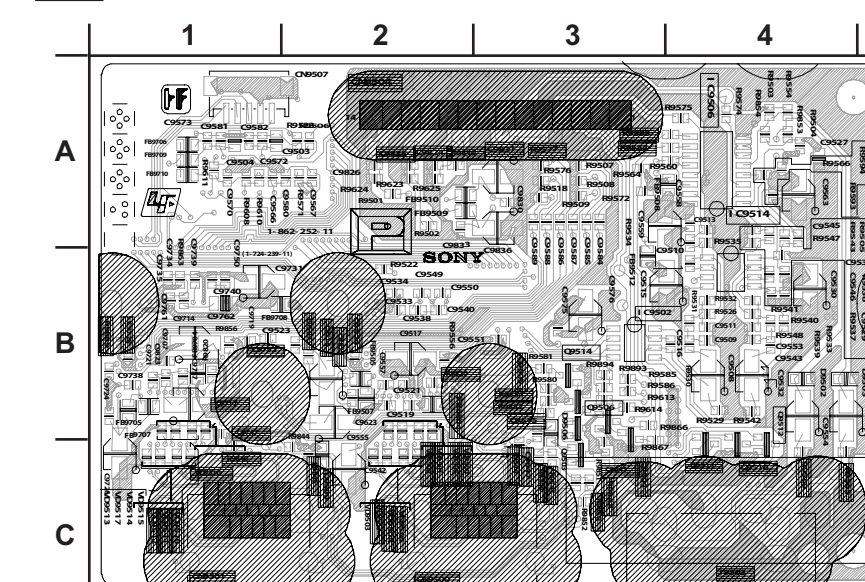
P/PA BOARD WAVEFORMS



**[P] [HDMI RECEIVER]
COMPONENT SIDE**

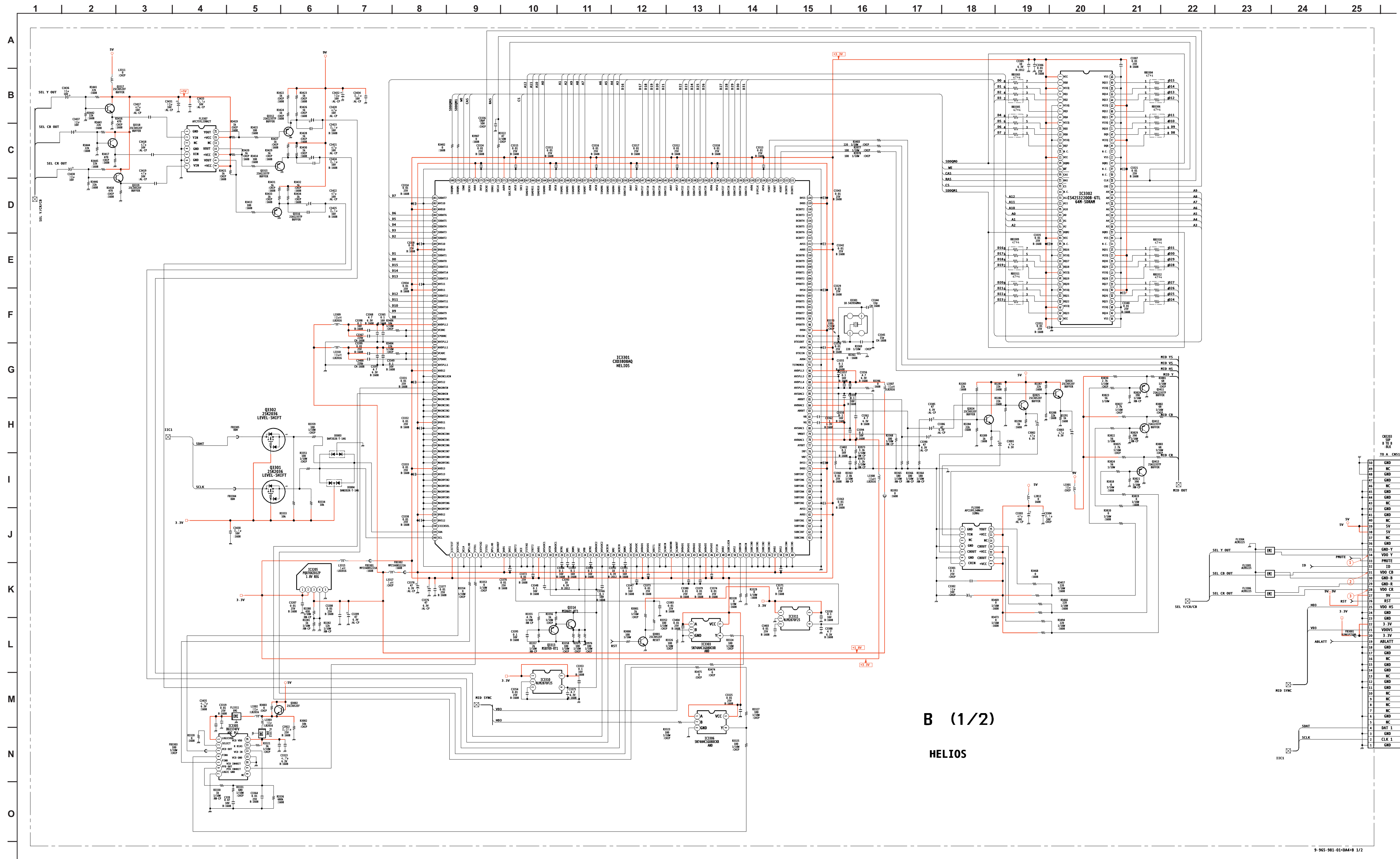


**[P] [HDMI RECEIVER]
CONDUCTOR SIDE**

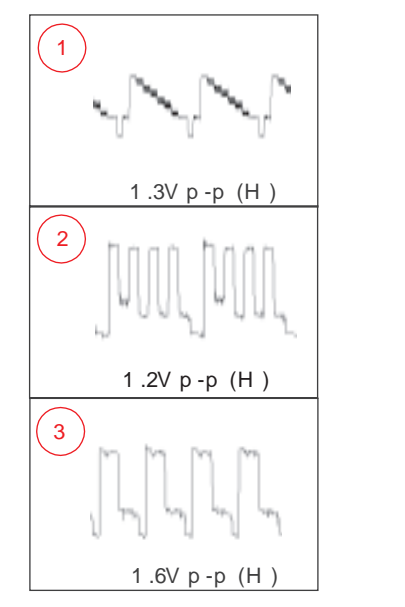


B BOARD SCHEMATIC DIAGRAM (1 OF 2)

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.

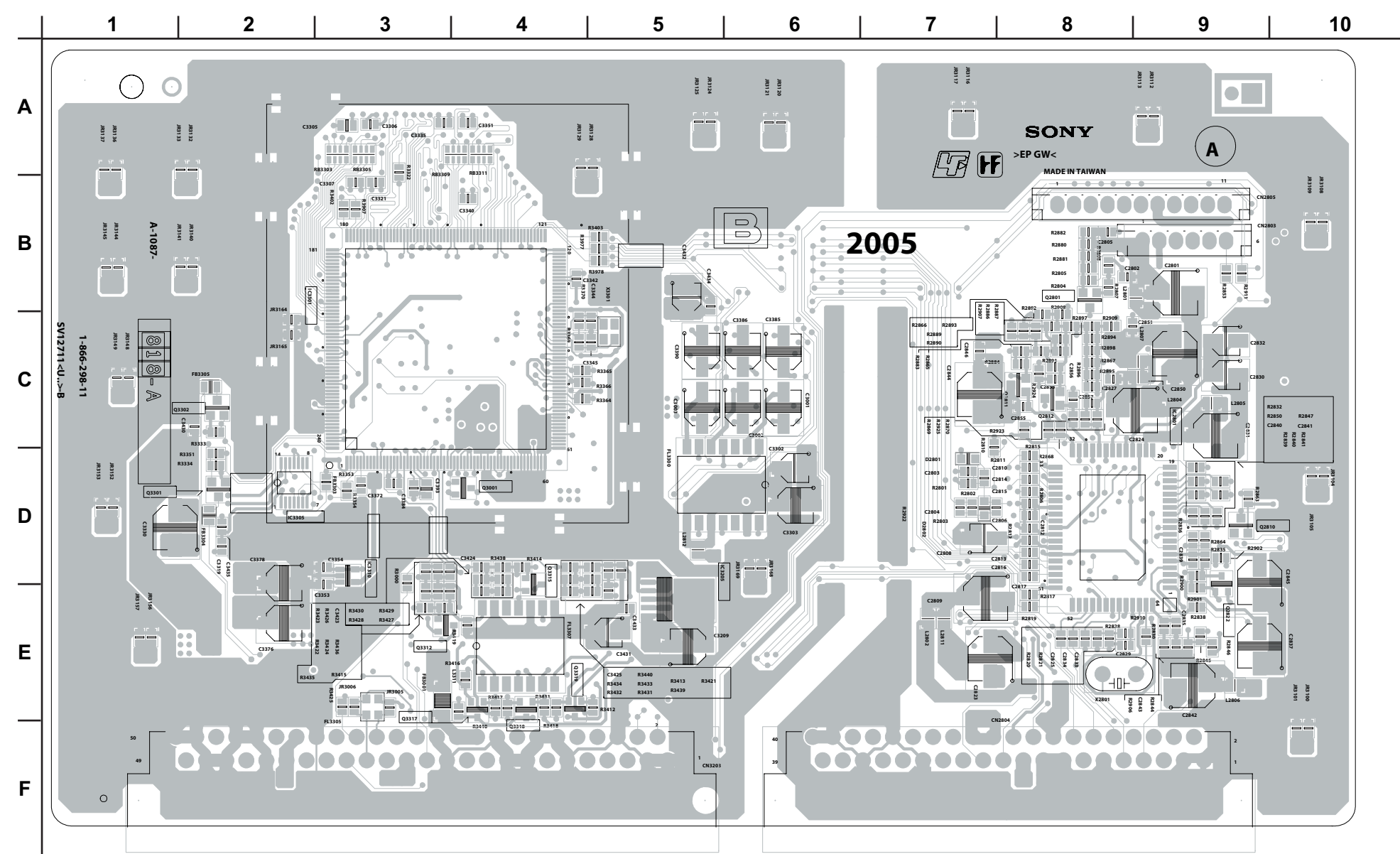


B BOARD WAVEFORMS

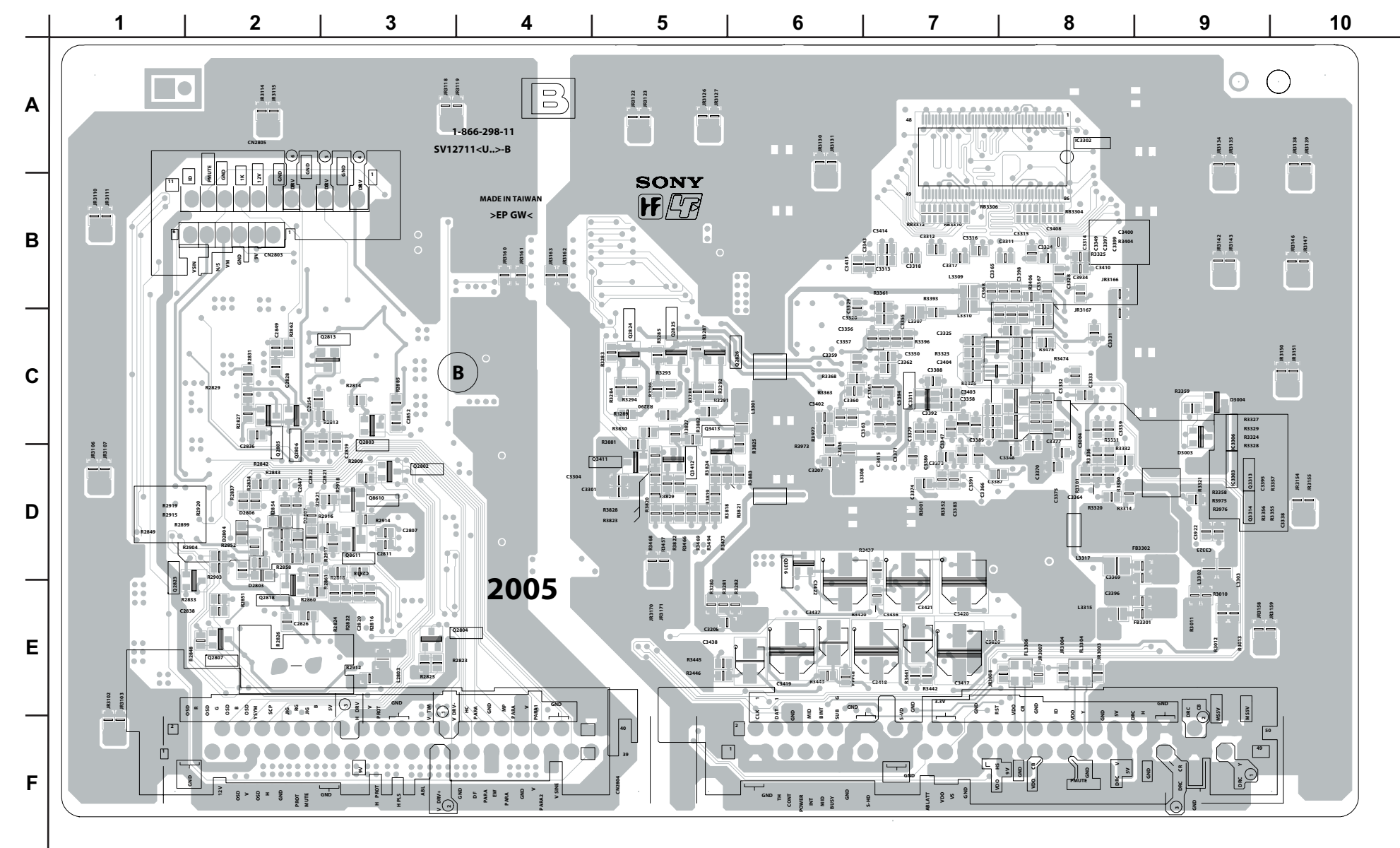


B (1/2)
HELIOS

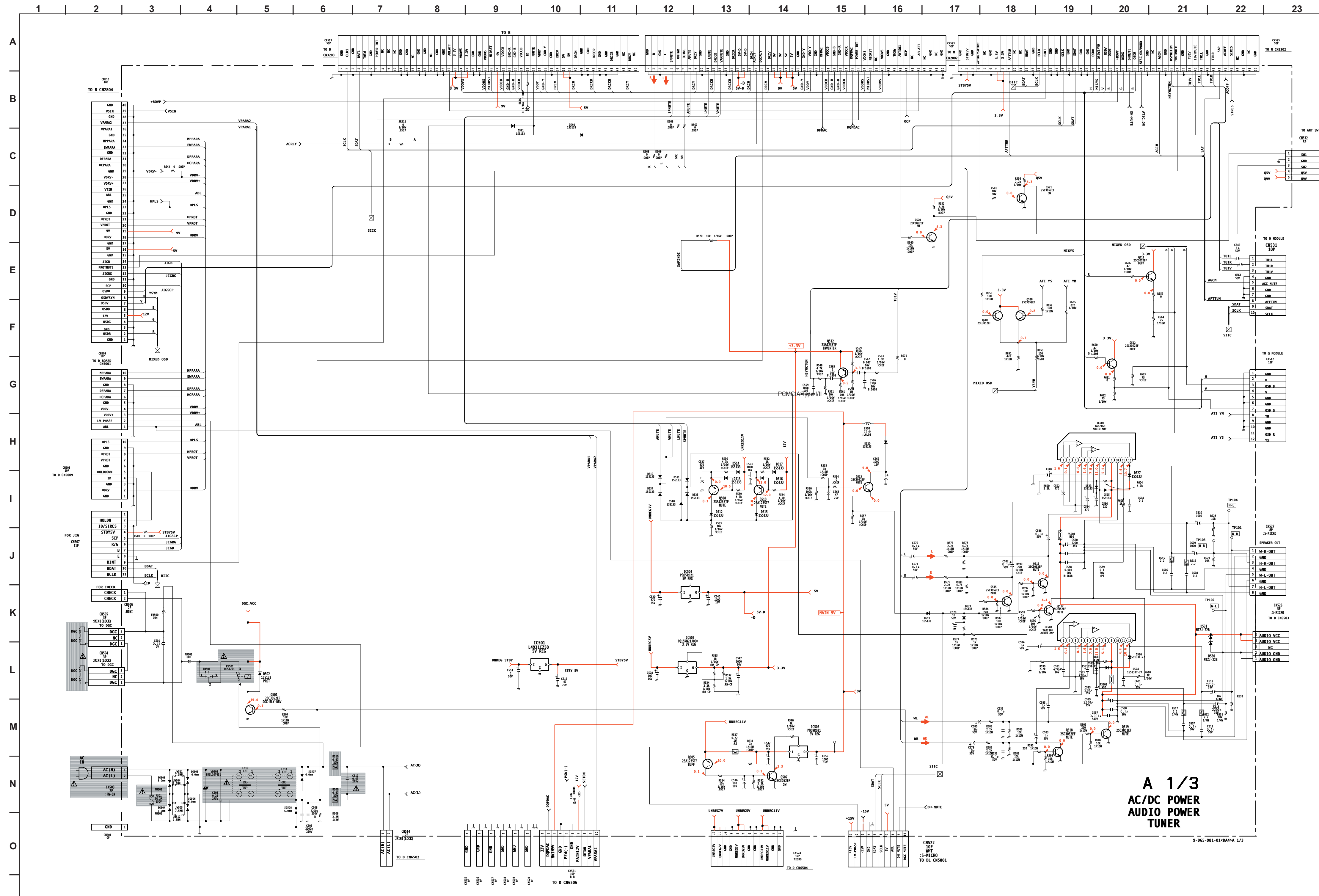
B [HELIOS, CRT DRIVE]
COMPONENT SIDE



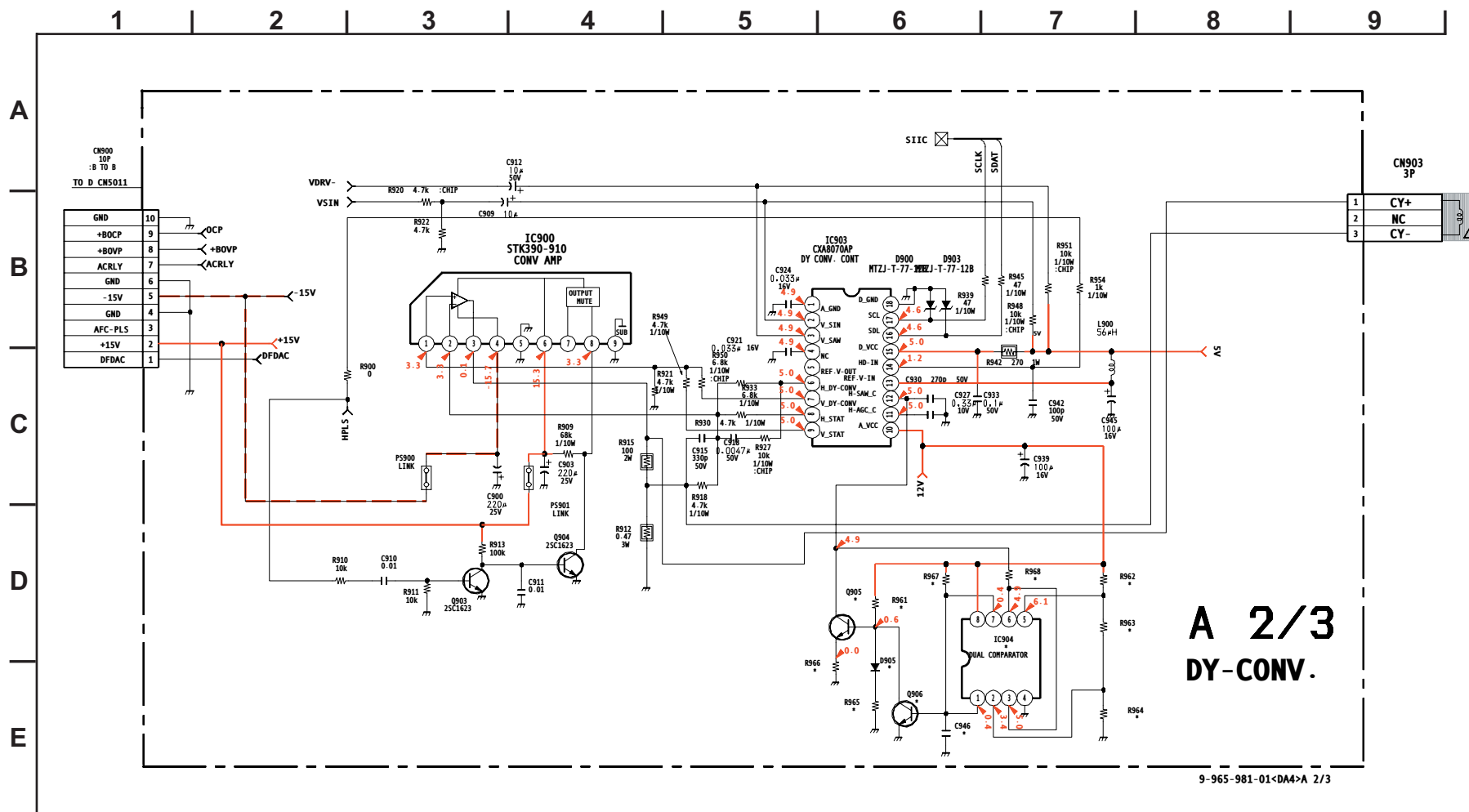
B [HELIOS, CRT DRIVE]
CONDUCTOR SIDE



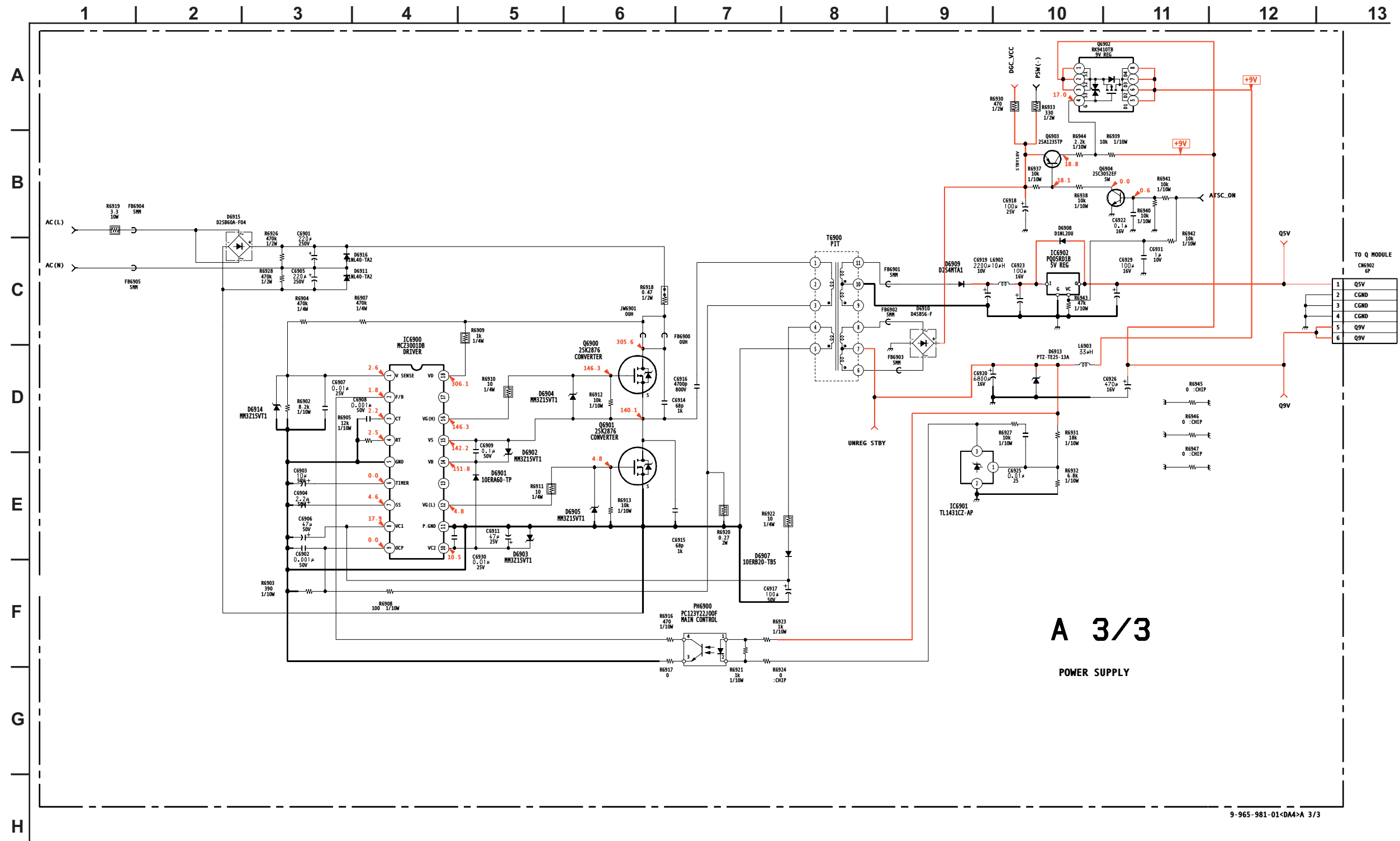
A BOARD SCHEMATIC DIAGRAM (1 OF 3)



A BOARD SCHEMATIC DIAGRAM (2 OF 3)

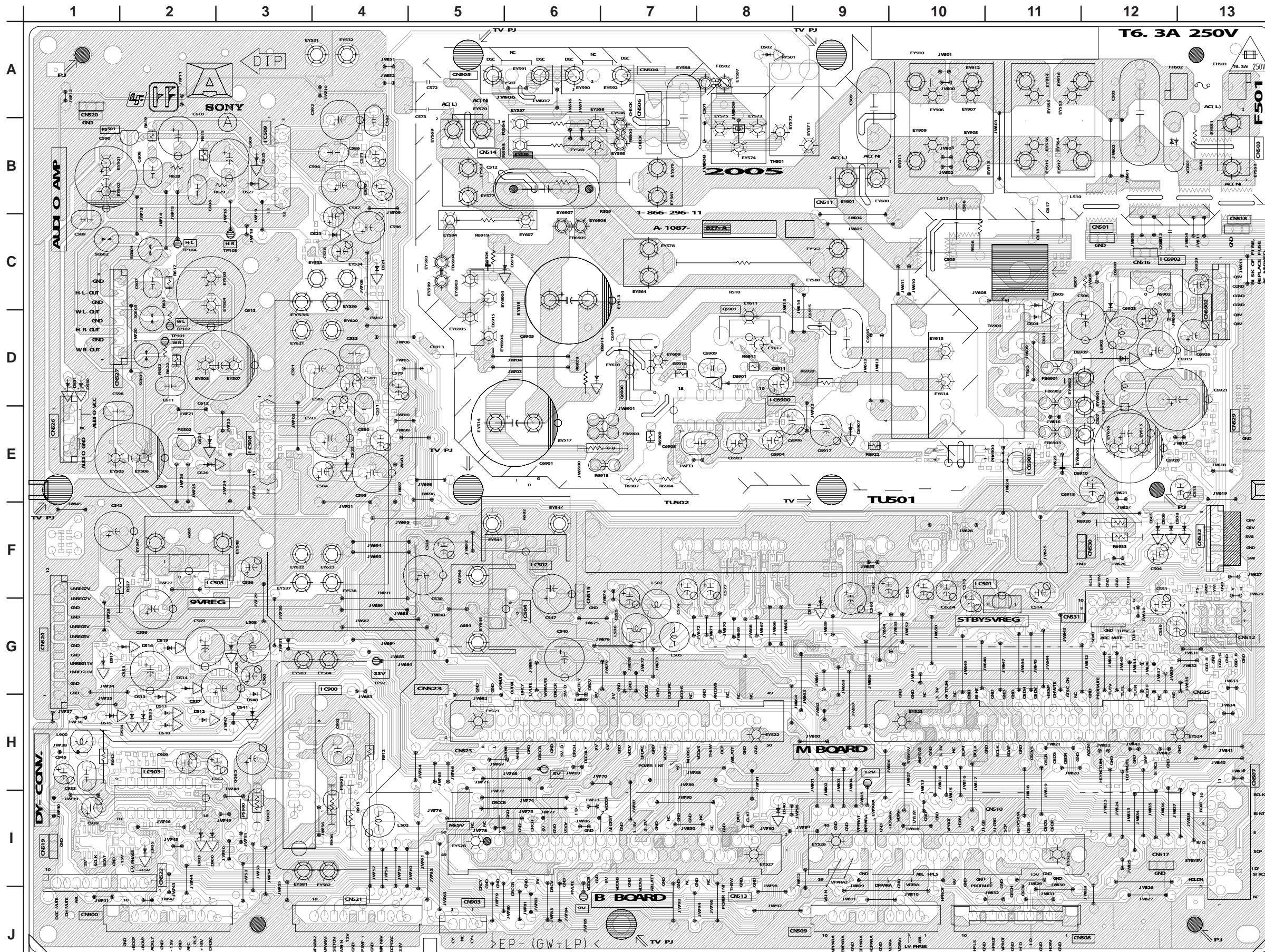


A BOARD SCHEMATIC DIAGRAM (3 OF 3)



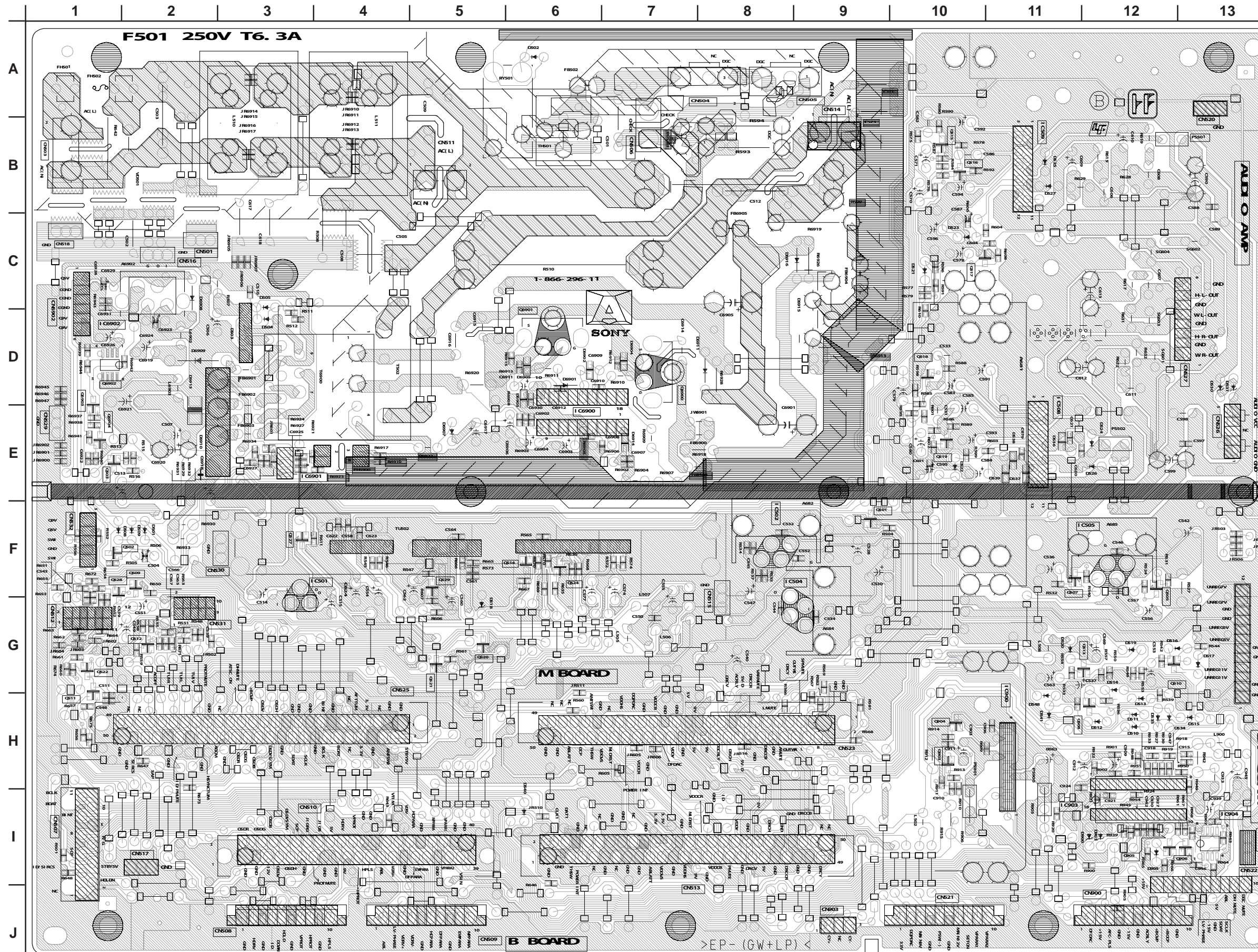


[AC/DC POWER, AUDIO POWER, TUNER, DY CONV, POWER SUPPLY]
COMPONENT SIDE





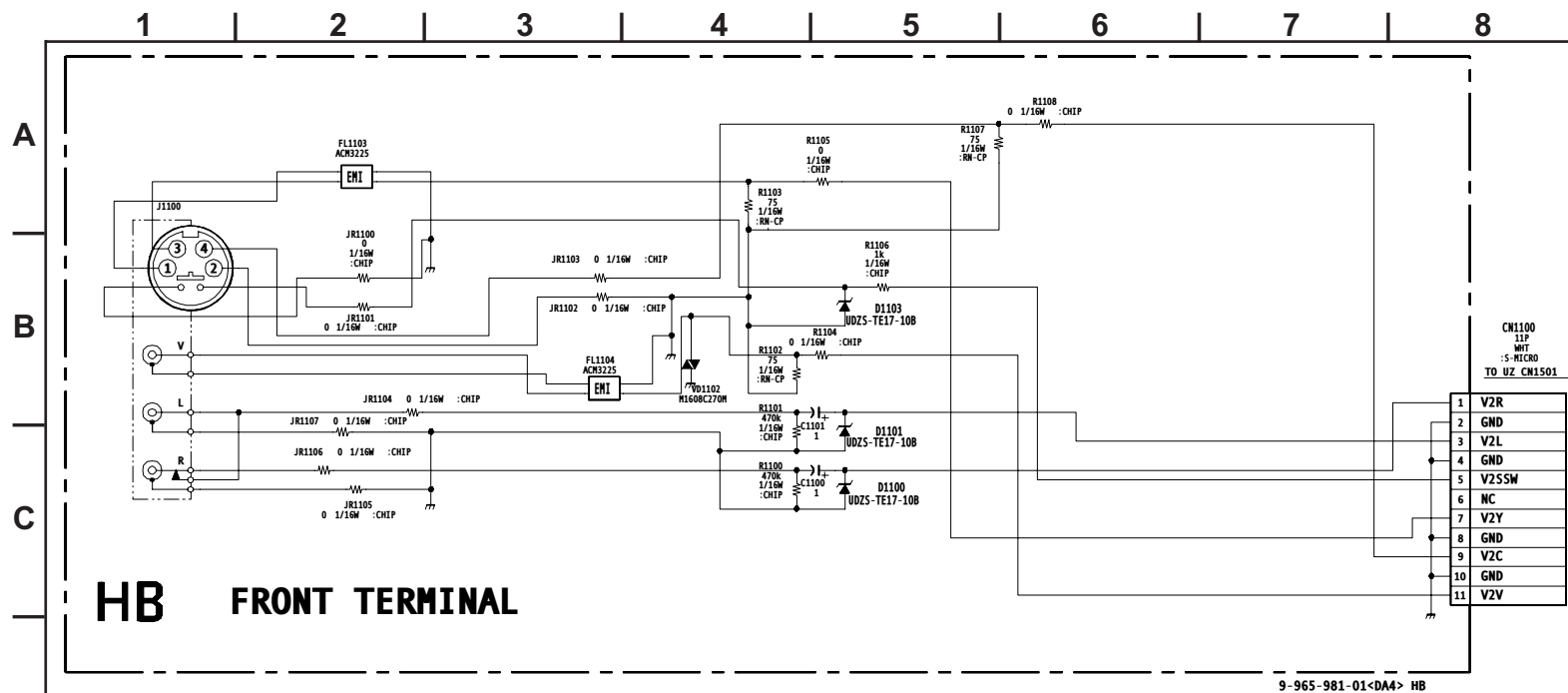
[AC/DC POWER, AUDIO POWER, TUNER, DY CONV, POWER SUPPLY]
CONDUCTOR SIDE



A BOARD LOCATOR LIST

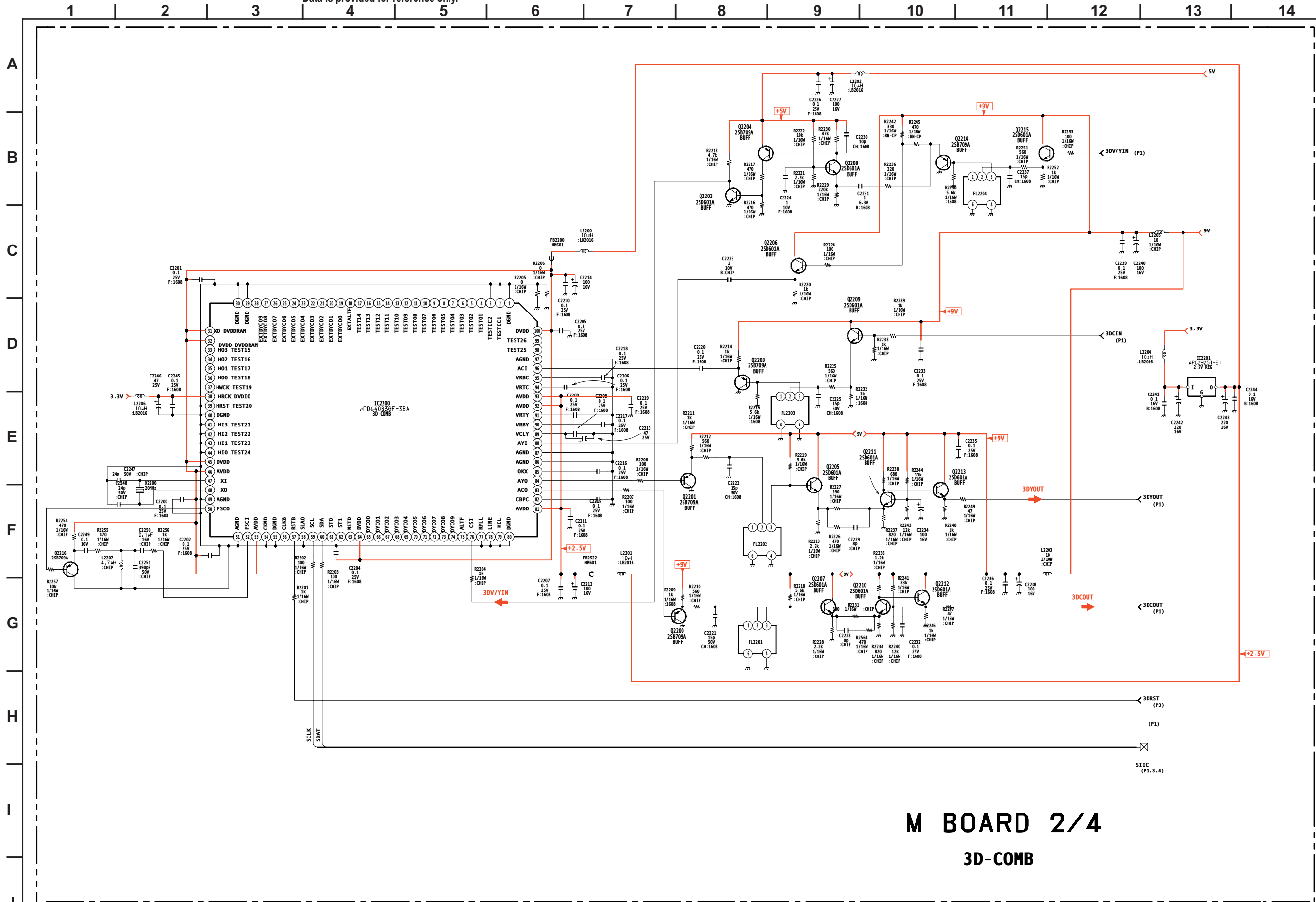
DIODE		IC	
D502	A-6	IC501	C-8
D510	H-12	IC502	C-8
D511	H-12	IC504	D-9
D512	H-12	IC505	F-9
D513	H-12	IC508	E-11
D514	G-12	IC509	B-11
D515	G-12	IC900	G-11
D516	H-13	IC903	I-11
D517	G-13	IC904	I-13
D519	G-13	IC6900	E-6
D520	G-12	IC6901	E-4
D521	G-12	IC6902	C-2
D522	C-10	TRANSISTOR	
D523	E-10	Q501	E-9
D524	C-10	Q504	F-7
D525	E-12	Q505	G-12
D526	B-11	Q506	F-6
D527	E-12	Q507	F-11
D528	C-11	Q508	H-12
D530	D-13	Q509	F-3
D531	D-13	Q510	G-13
D534	H-12	Q511	G-2
D535	H-11	Q512	G-2
D540	I-6	Q513	G-12
D541	H-11	Q515	B-10
D548	H-11	Q516	B-10
D900	I-11	Q517	C-10
D903	I-12	Q518	D-10
D905	I-12	Q519	E-10
D6901	D-5	Q520	F-3
D6902	D-6	Q521	F-3
D6903	E-5	Q522	G-2
D6904	D-6	Q528	F-2
D6905	D-5	Q903	H-10
D6907	E-4	Q904	H-10
D6908	C-3	Q905	I-12
D6909	D-3	Q906	I-13
D6910	D-2	Q6900	D-6
D6911	C-8	Q6901	D-5
D6913	D-2	Q6902	D-2
D6914	E-6	Q6903	E-2
D6915	D-9	Q6904	E-2
D6916	C-8		

HB BOARD SCHEMATIC DIAGRAM



M BOARD SCHEMATIC DIAGRAM (2 OF 4)

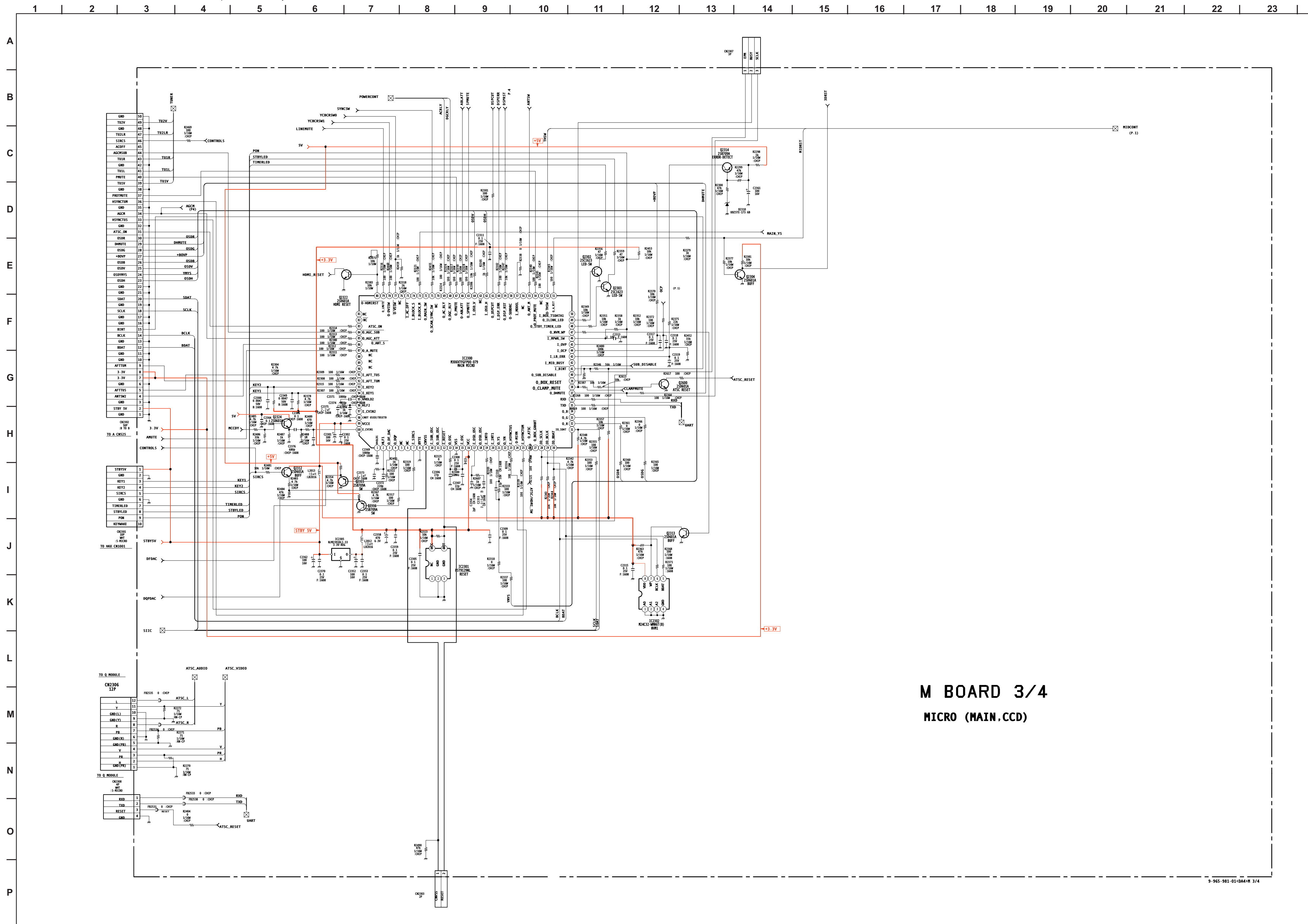
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



M BOARD 2/4
3D-COMB

M BOARD SCHEMATIC DIAGRAM (3 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.

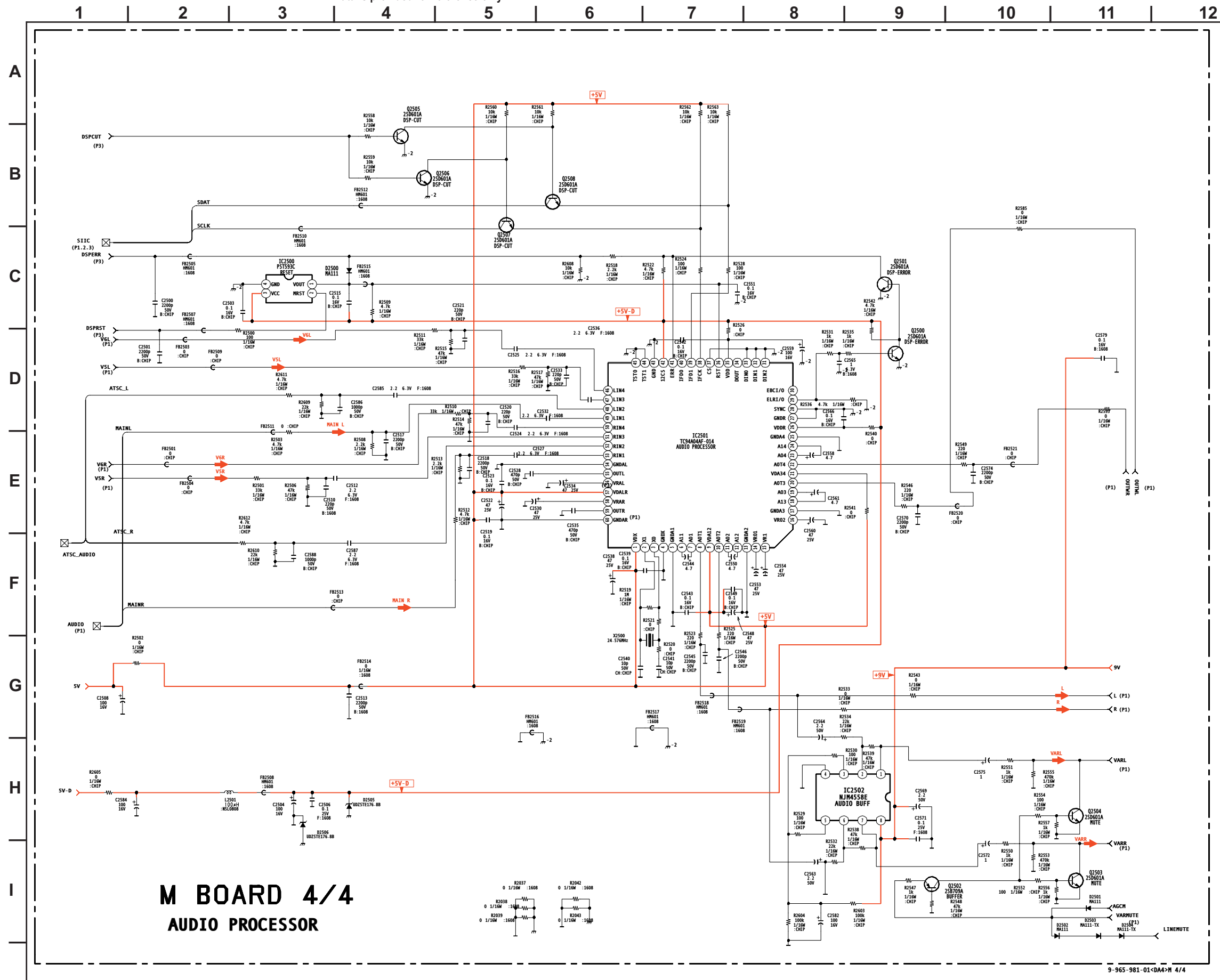


M BOARD 3/4
MICRO (MAIN.CCD)

9-965-981-01-04M-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.

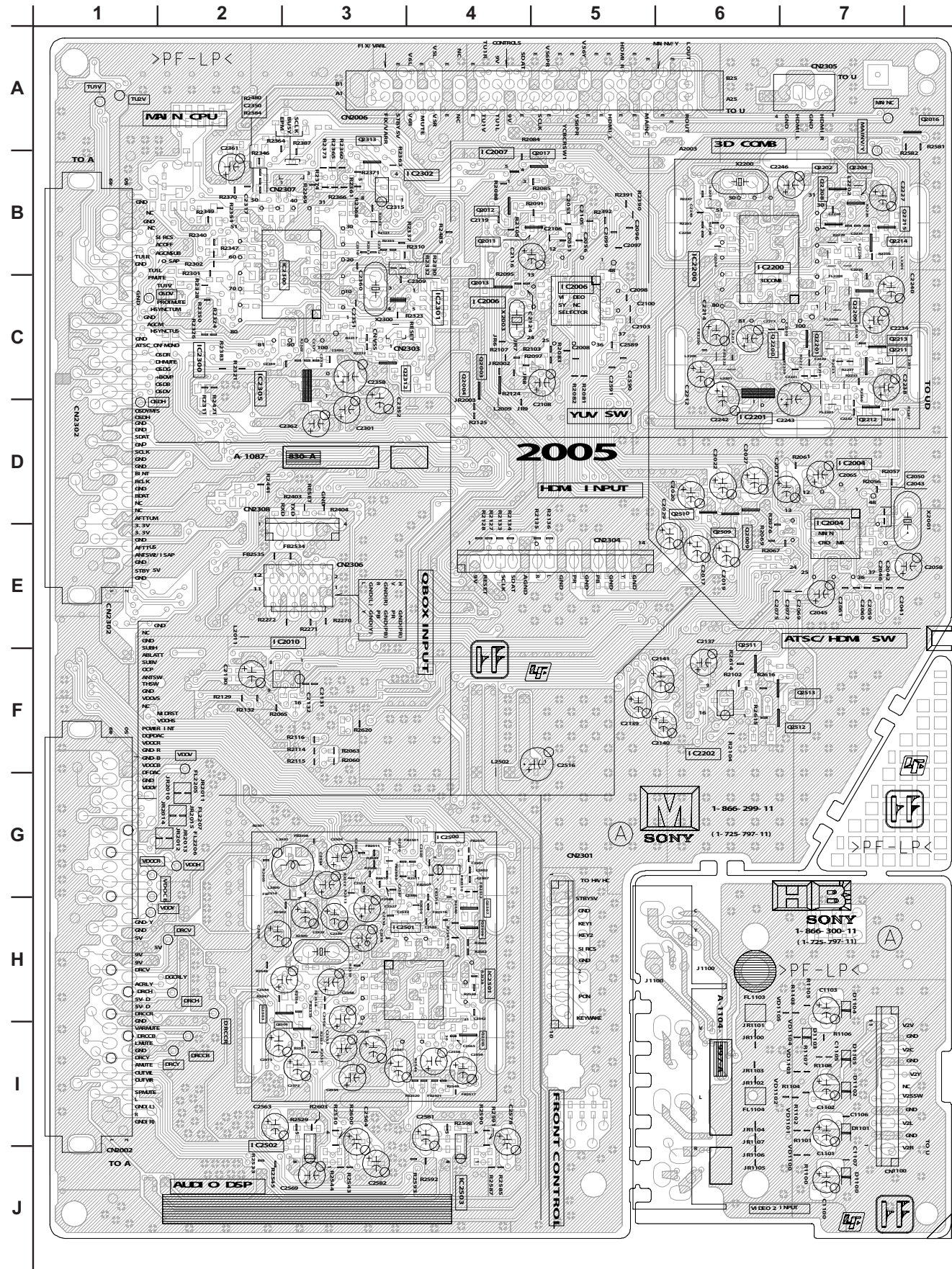


M BOARD 4/4
AUDIO PROCESSOR

9-965-981-01-0A4-N 4/4

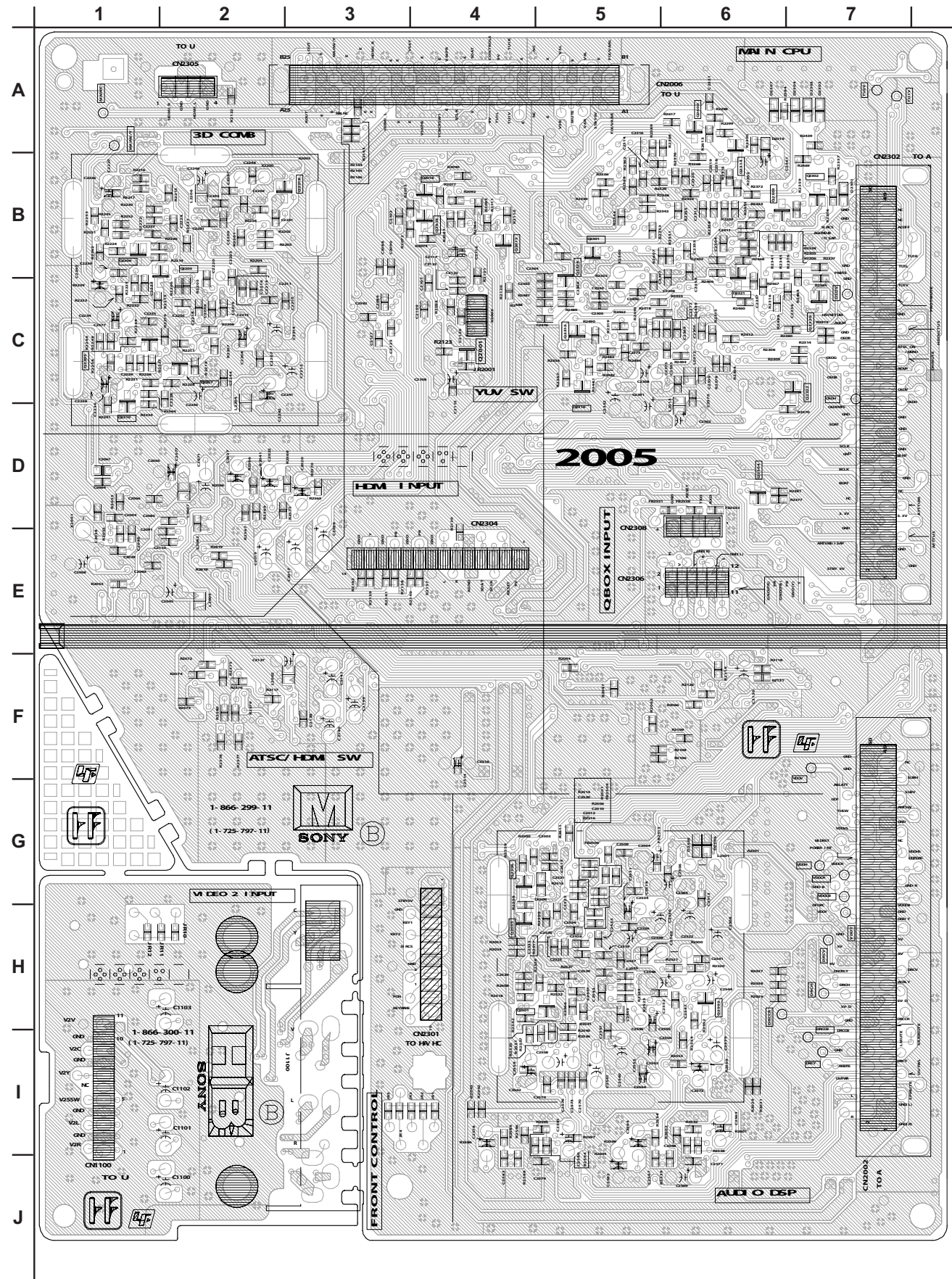
M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]
COMPONENT SIDE

HB [FRONT TERMINAL]
COMPONENT SIDE



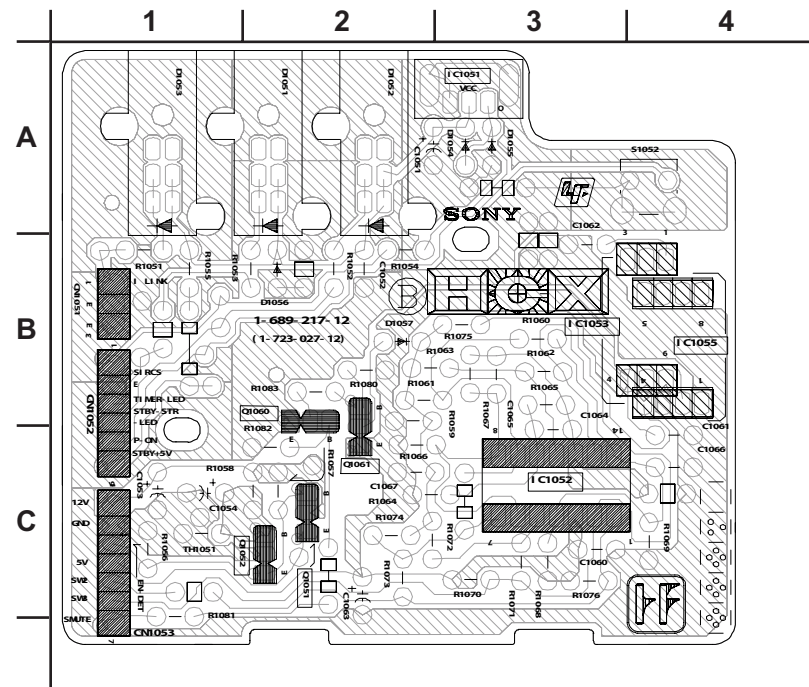
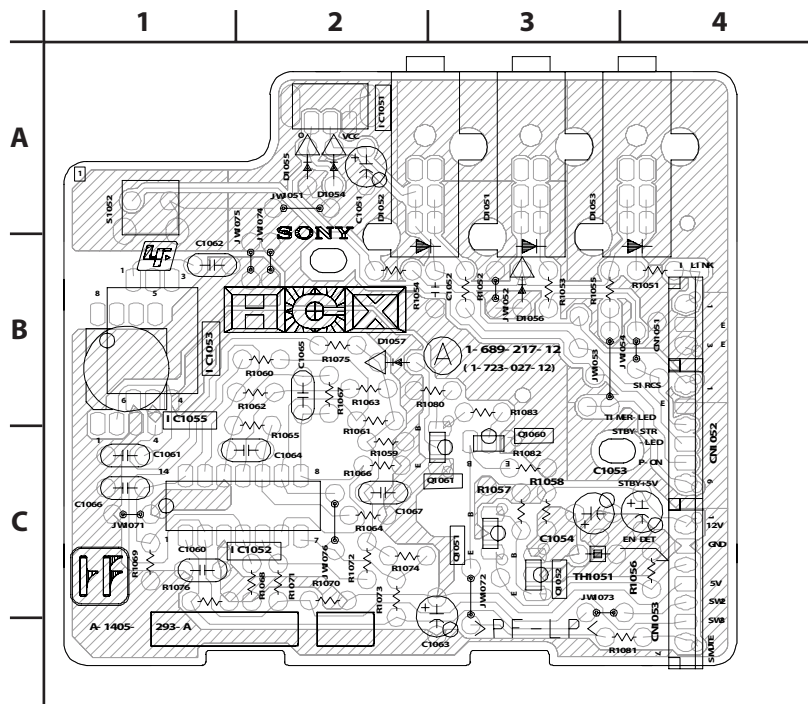
M [VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]
CONDUCTOR SIDE

HB [FRONT TERMINAL]
CONDUCTOR SIDE

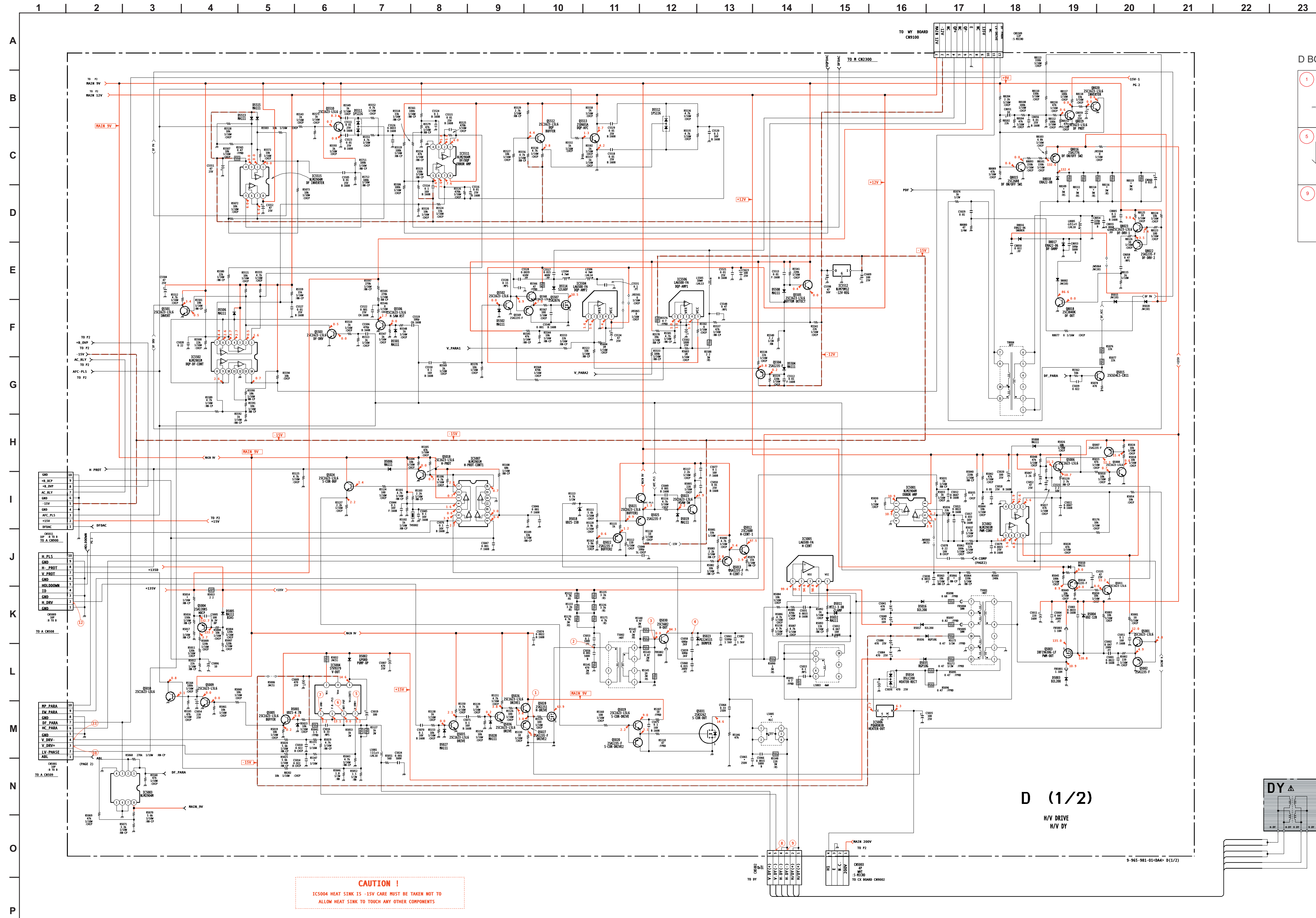


HGX [P ON, SIRCS]
COMPONENT SIDE

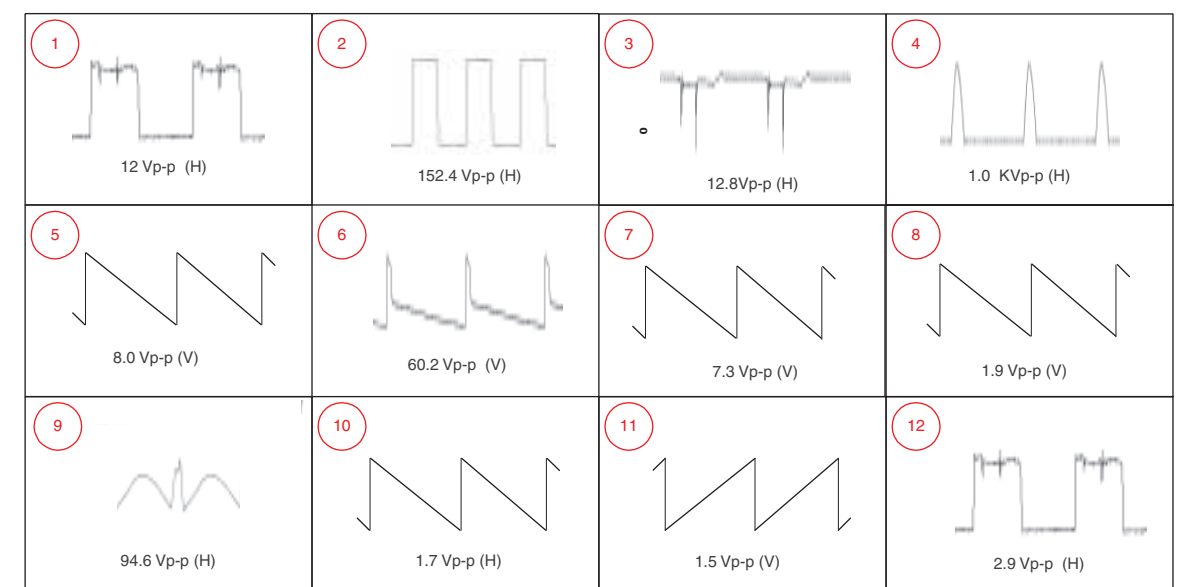
HGX [P ON, SIRCS]
CONDUCTOR SIDE



D BOARD SCHEMATIC DIAGRAM (1 OF 2)



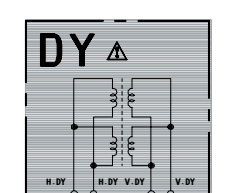
D BOARD WAVEFORMS



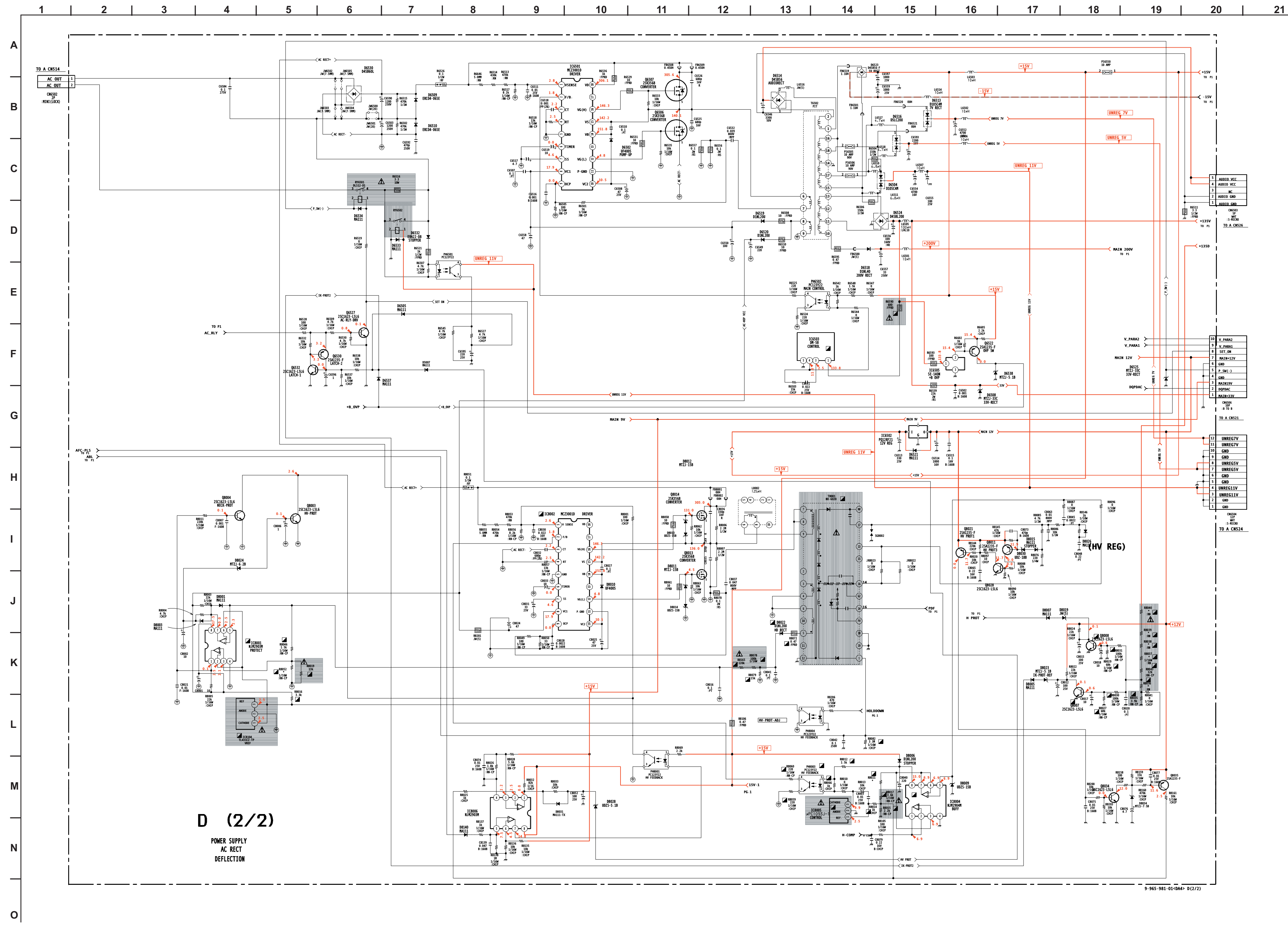
D (1/2)

H/V DRIVE

H/V DY

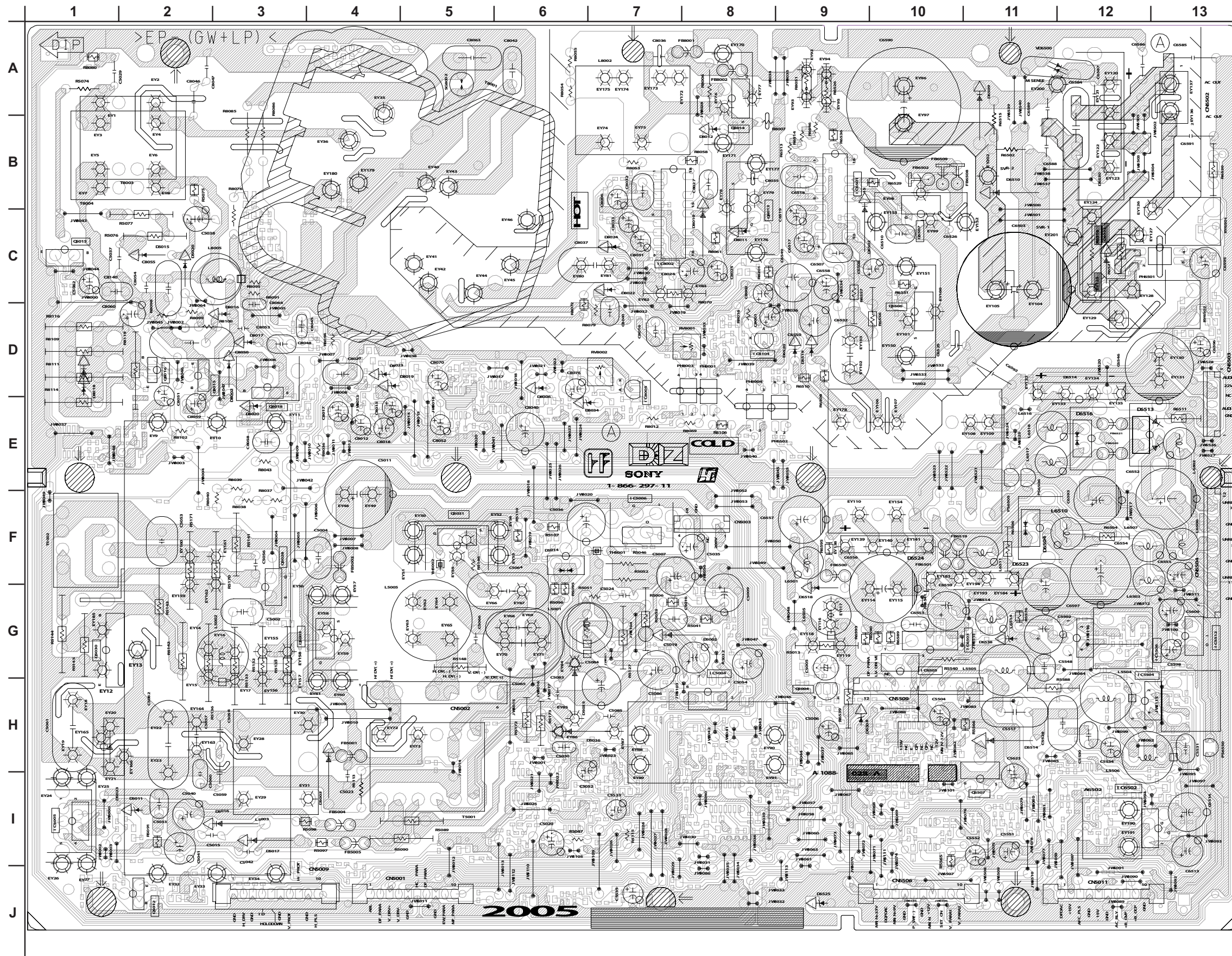


D BOARD SCHEMATIC DIAGRAM (2 OF 2)

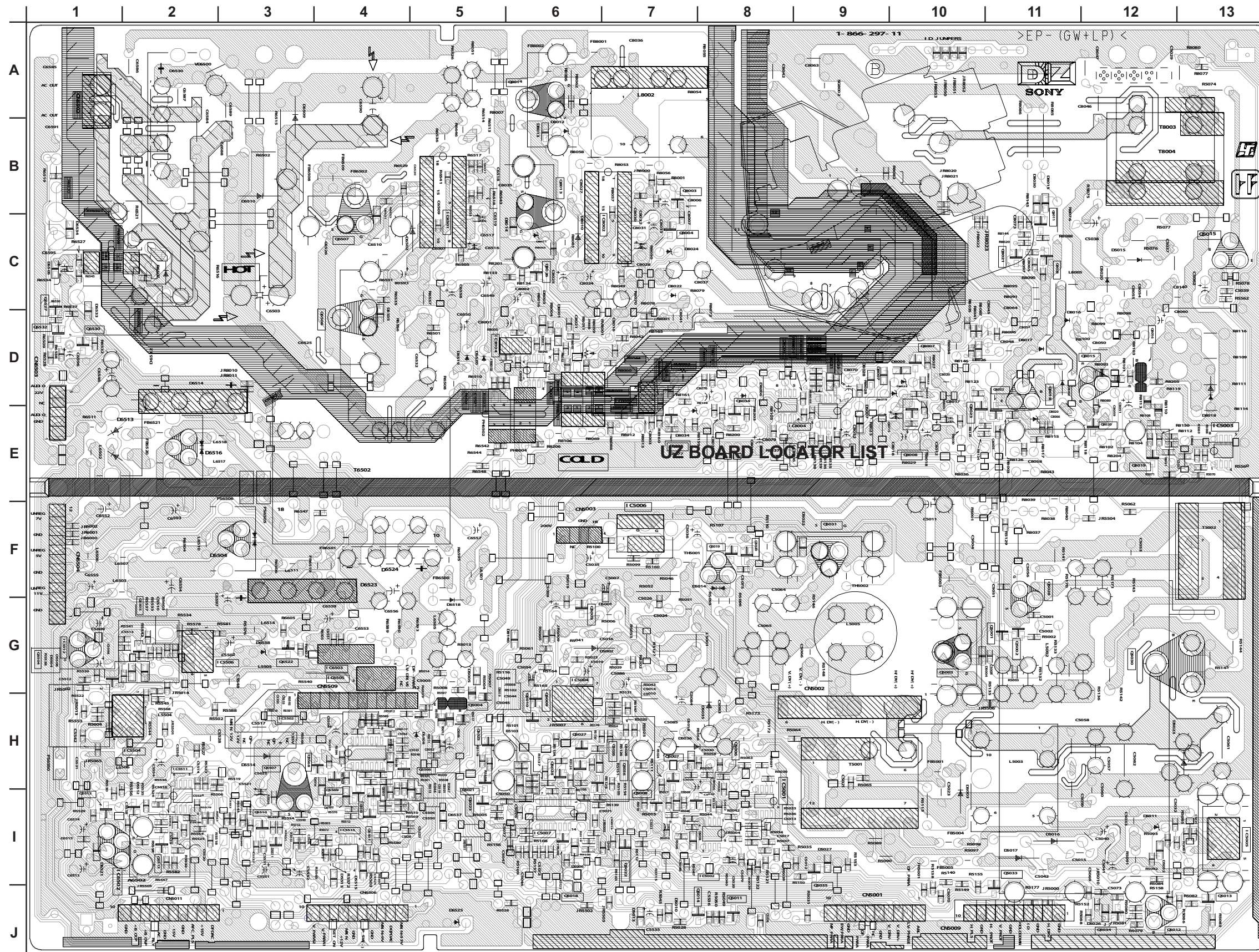


9-965-981-01-04M-D(2/2)

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



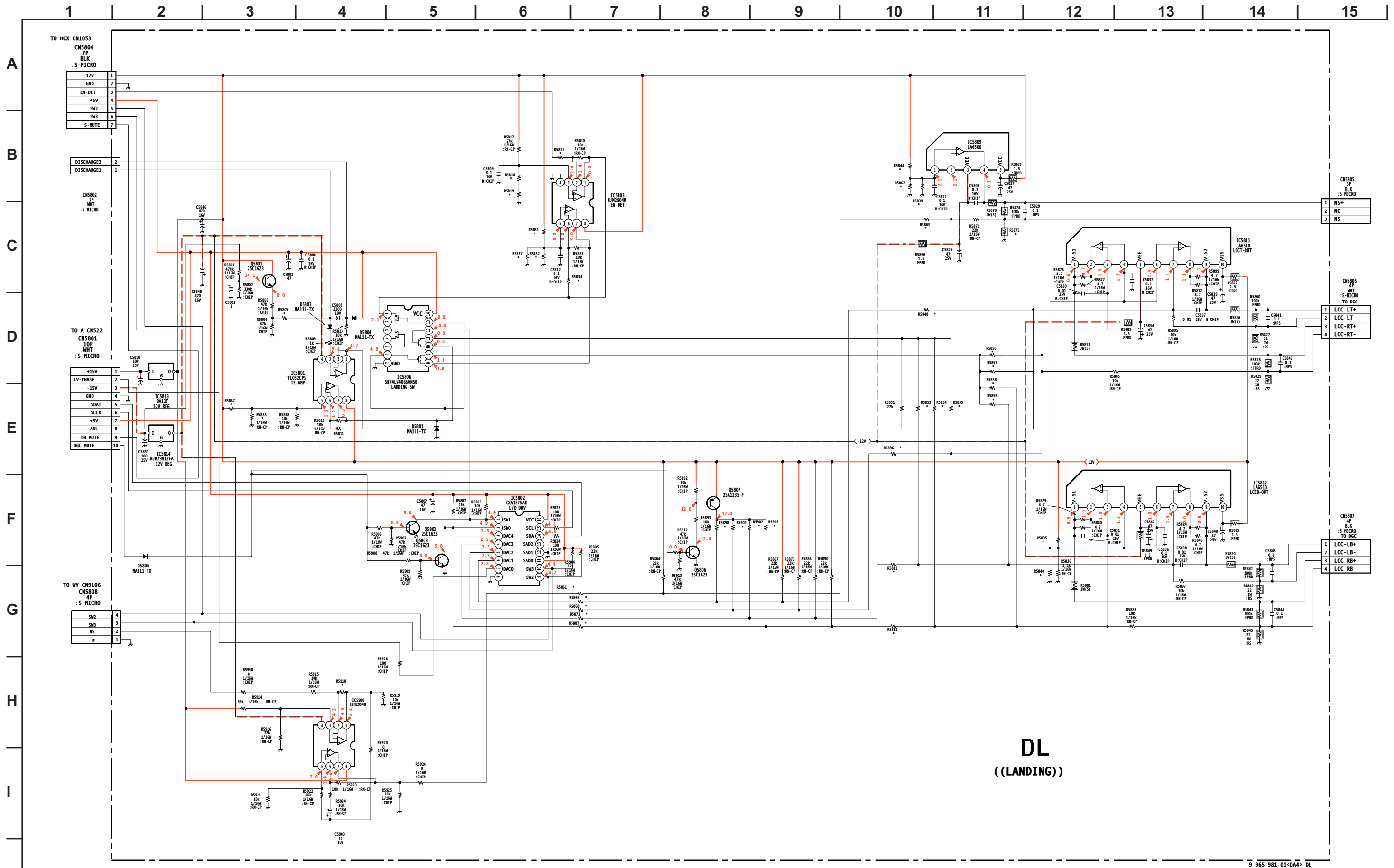
D [H/V DRIVE, H/V, DY, POWER SUPPLY, AC RECT, DEFLECTION]
CONDUCTOR SIDE



D BOARD LOCATOR LIST [CONDUCTOR SIDE]

DIODE		DIODE		IC		TRANSISTOR	
D5001	F-7	D6533	C-1	IC8004	E-9	Q6507	C-4
D5002	G-7	D6534	C-1	IC8005	D-7	Q6522	G-3
D5003	H-10	D6537	H-5	IC8006	E-9	Q6527	C-1
D5004	G-11	D6538	G-3	IC8104	D-6	Q6530	D-1
D5005	G-5	D8001	D-6	TRANSISTOR		Q6532	D-1
D5006	I-6	D8002	D-11	Q5001	G-11	Q8003	B-7
D5007	E-9	D8003	C-6	Q5002	G-11	Q8004	C-7
D5008	I-8	D8005	E-9	Q5003	G-10	Q8007	D-9
D5010	J-7	D8006	D-8	Q5004	G-5	Q8008	E-10
D5011	I-12	D8007	E-9	Q5005	F-6	Q8011	B-11
D5014	F-8	D8009	D-8	Q5006	H-8	Q8013	B-6
D5015	C-12	D8010	C-6	Q5007	H-7	Q8014	A-6
D5016	I-11	D8011	C-6	Q5008	I-7	Q8015	D-12
D5017	I-11	D8012	B-6	Q5009	G-6	Q8016	D-12
D5018	H-7	D8013	B-6	Q5010	G-6	Q8018	D-11
D5019	H-6	D8014	B-5	Q5011	J-8	Q8019	E-12
D5023	H-13	D8015	B-11	Q5012	J-12	Q8020	E-12
D5027	I-9	D8016	D-10	Q5013	J-13	Q8021	C-11
D5028	H-7	D8017	D-11	Q5014	J-8	Q8022	D-11
D5032	I-12	D8018	E-13	Q5015	C-13	Q8023	D-10
D5035	H-8	D8019	D-10	Q5018	J-6	Q8028	C-11
D5036	H-8	D8022	C-7	Q5019	F-8	Q8034	D-8
D5501	H-5	D8023	D-10	Q5020	F-8	Q8035	E-7
D5502	H-4	D8024	C-7	Q5021	H-6		
D5504	G-1	D8026	D-10	Q5022	I-7		
D5506	H-5	D8028	E-9	Q5023	H-5		
D5508	G-1	D8030	B-11	Q5024	H-6		
D5511	I-3	D8034	E-7	Q5025	H-5		
D5512	I-2	D8140	G-6	Q5026	H-7		
D5513	I-4	IC		Q5027	H-6		
D5514	H-3	IC5001	I-9	Q5028	F-11		
D5515	I-4	IC5002	I-8	Q5030	G-12		
D6502	C-4	IC5003	E-13	Q5031	F-9		
D6504	F-3	IC5004	G-6	Q5035	H-9		
D6505	C-1	IC5005	I-13	Q5036	H-7		
D6508	H-5	IC5006	F-7	Q5501	I-4		
D6509	A-3	IC5007	I-6	Q5502	H-4		
D6510	B-3	IC5502	H-5	Q5503	H-4		
D6513	D-2	IC5504	H-2	Q5504	G-1		
D6514	D-3	IC5506	G-3	Q5505	G-1		
D6516	E-2	IC5511	H-2	Q5506	H-5		
D6518	F-5	IC5512	G-1	Q5507	H-3		
D6519	D-5	IC5515	I-4	Q5510	H-3		
D6520	D-5	IC6501	C-5	Q5512	I-1		
D6521	I-1	IC6502	J-1	Q5513	I-2		
D6523	F-4	IC6503	F-4	Q5568	H-4		
D6524	F-4	IC6505	G-4	Q5569	H-4		
D6525	F-4	IC8001	D-6	Q6506	C-4		
D6530	A-2	IC8002	C-6				
D6532	B-2						

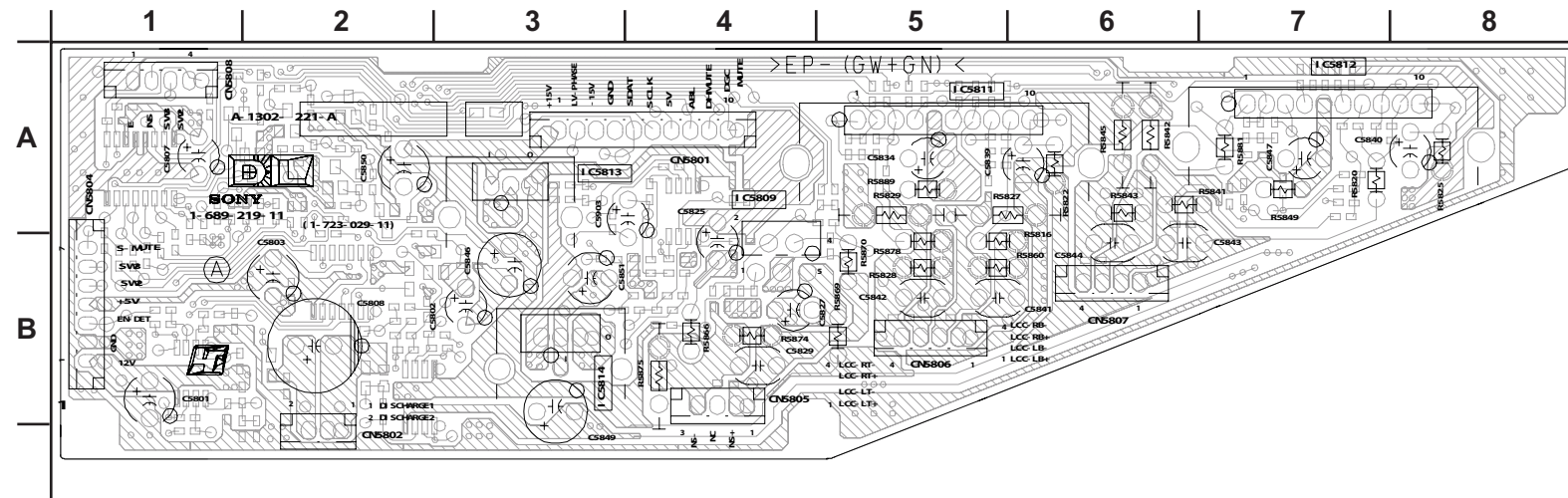
DL BOARD SCHEMATIC DIAGRAM



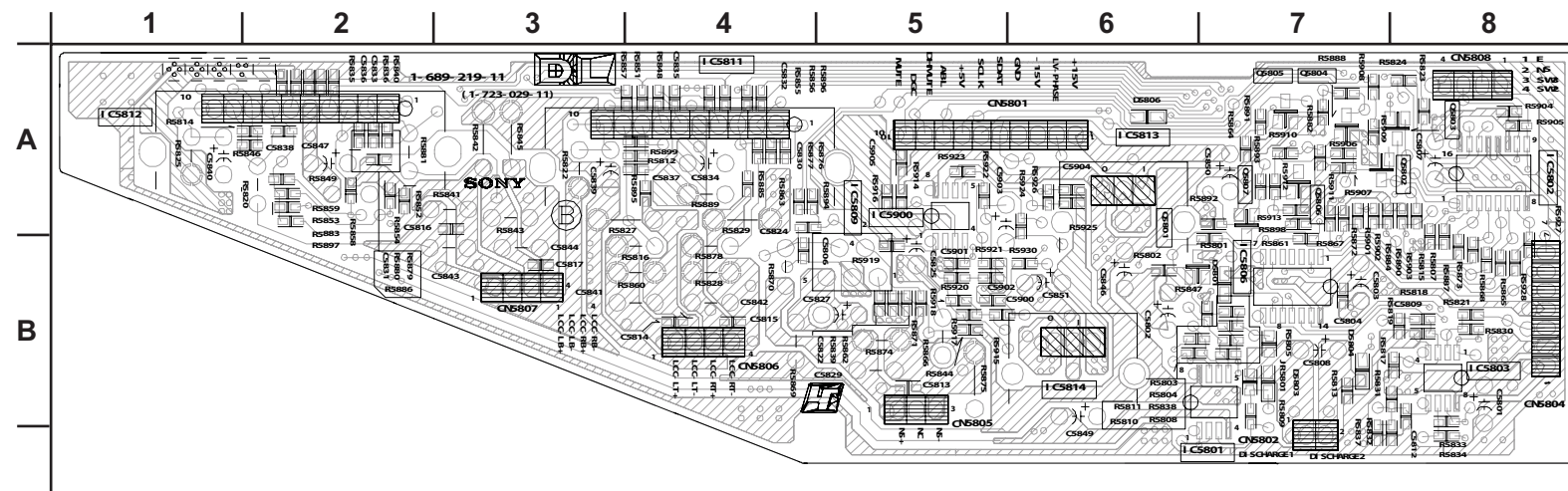
DL
(LANDING)

9-965-981-01<DA4> DL

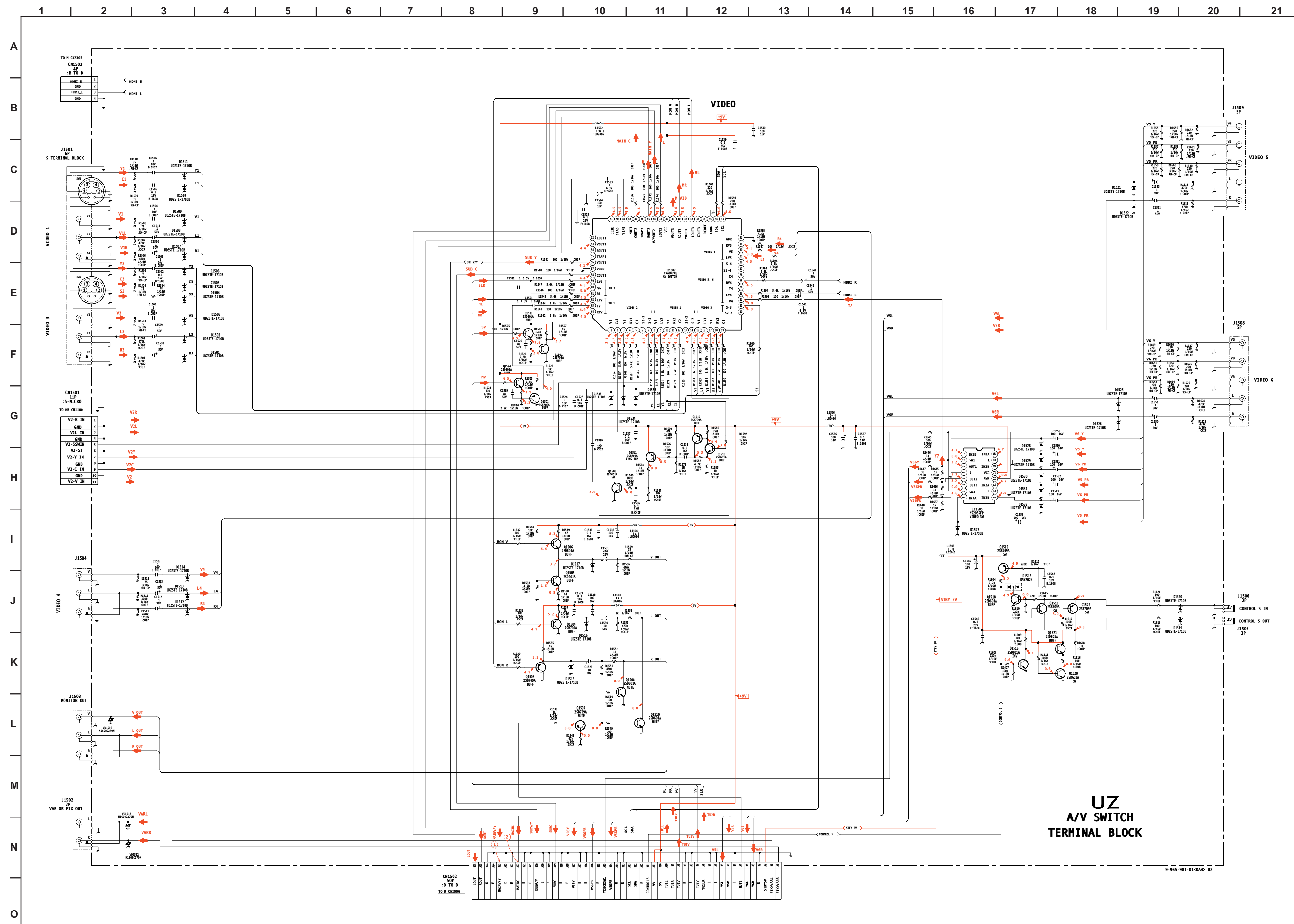
DL [LANDING]
COMPONENT SIDE



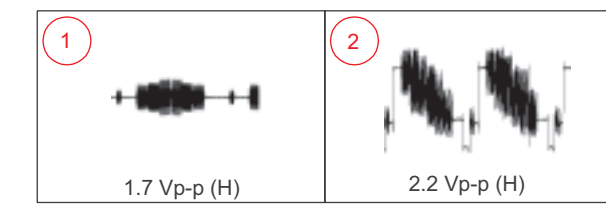
DL [LANDING]
CONDUCTOR SIDE



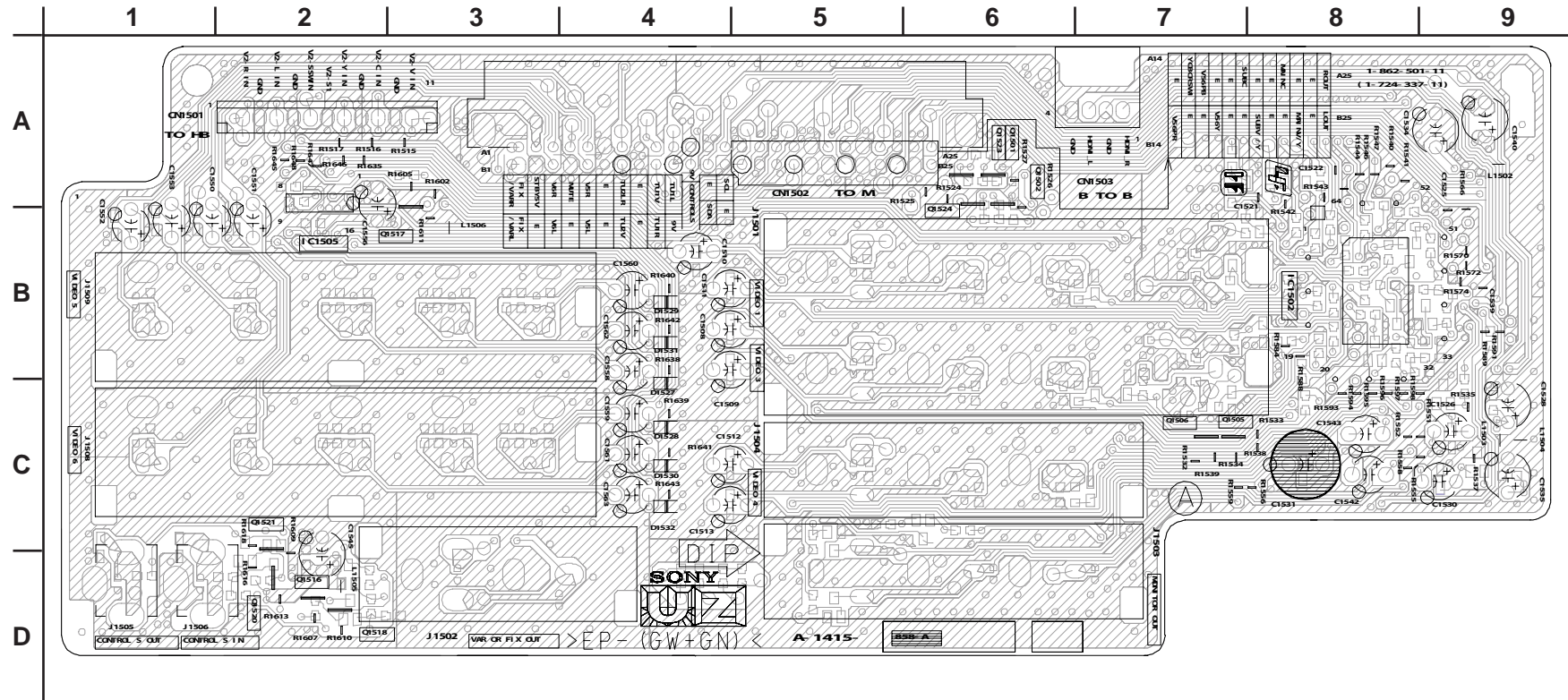
UZ BOARD SCHEMATIC DIAGRAM



UZ BOARD WAVEFORMS



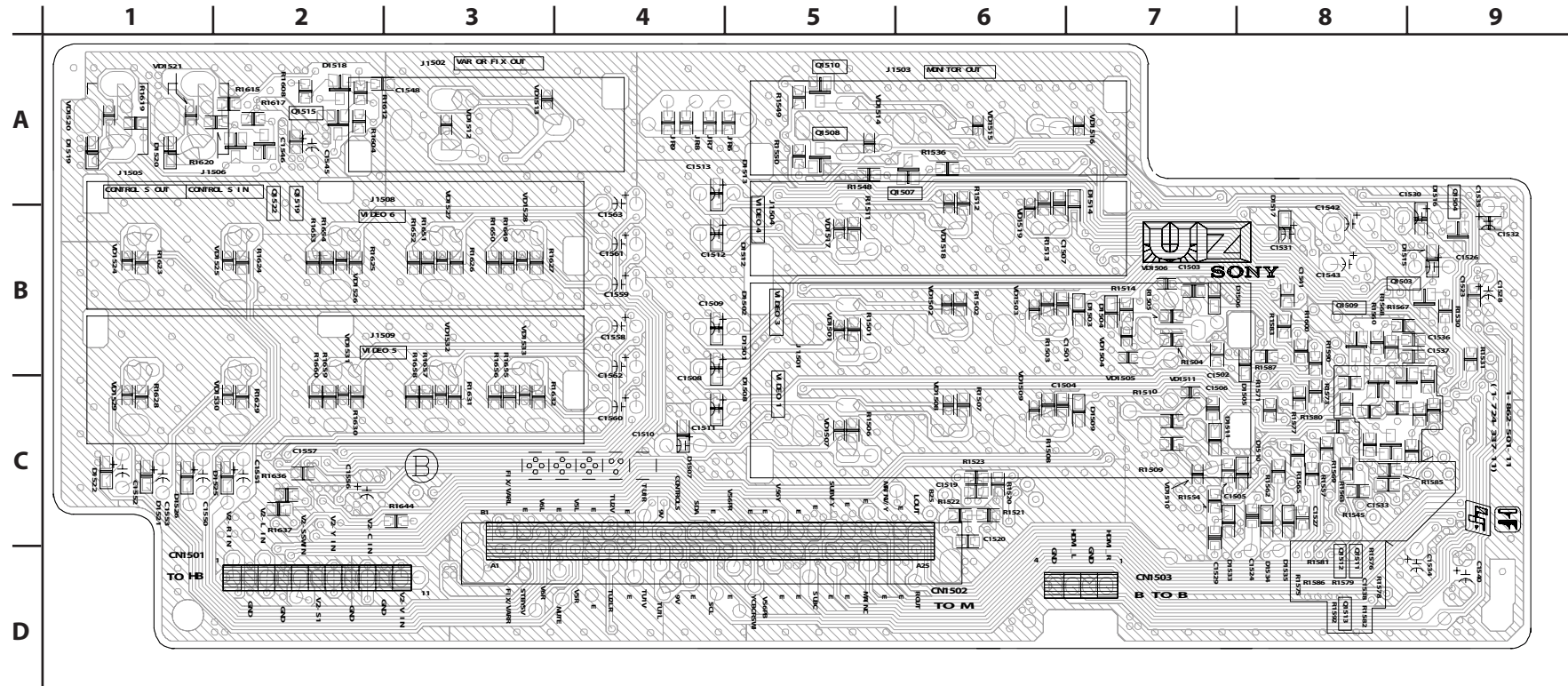
UZ [AV SWITCH, TERMINAL BLOCK]
COMPONENT SIDE



UZ BOARD LOCATOR LIST

DIODE		TRANSISTOR	
D1527	C-4	Q1501	A-6
D1528	C-4	Q1502	A-6
D1529	B-4	Q1505	C-7
D1530	C-4	Q1506	C-7
D1531	B-4	Q1516	D-2
D1532	C-4	Q1518	D-3
IC		Q1520	D-2
IC1502	B-8	Q1521	C-2
IC1505	B-2	Q1523	A-6
		Q1524	B-6

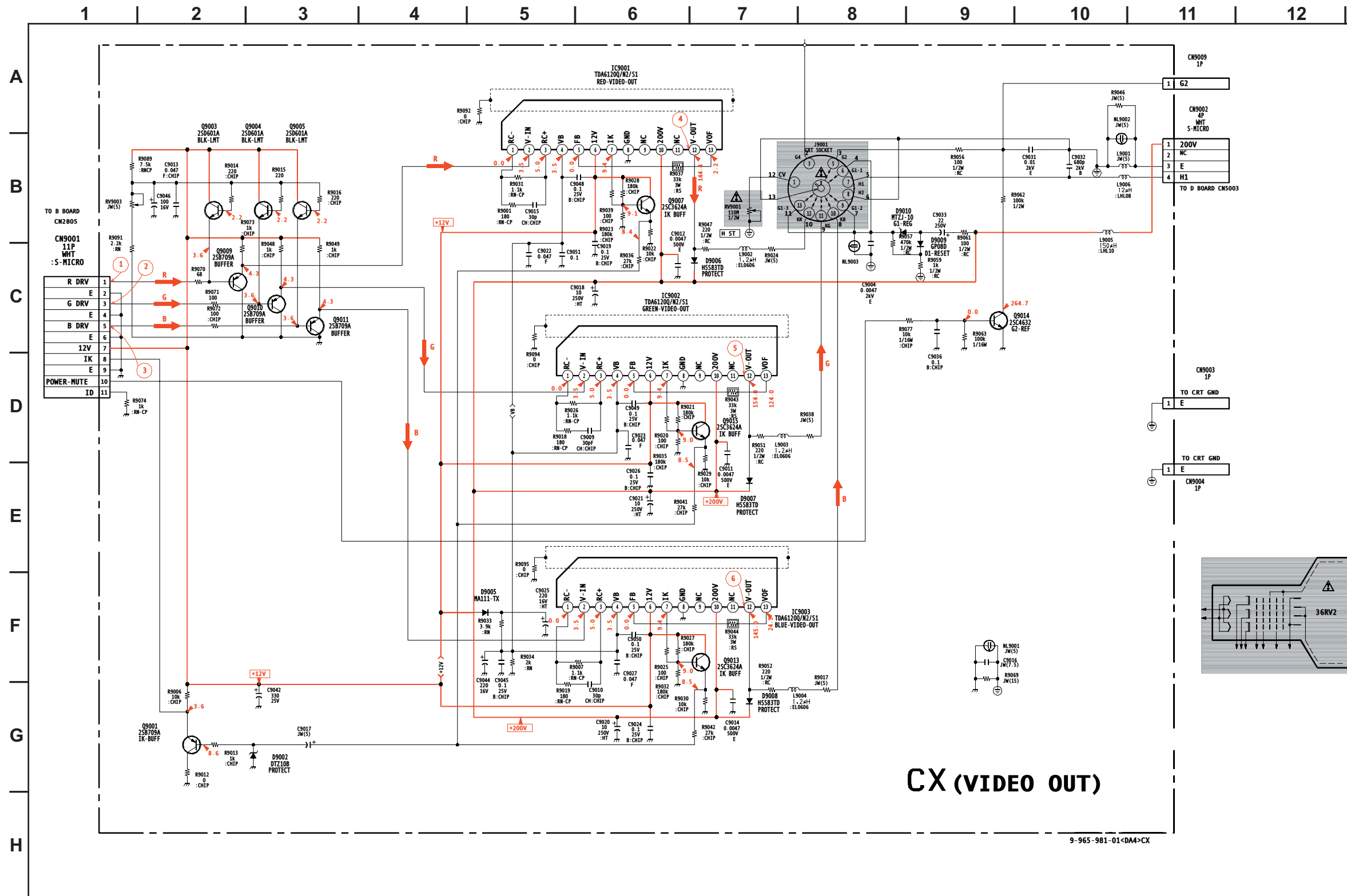
UZ [A/V SWITCH, TERMINAL BLOCK]
CONDUCTOR SIDE



UZ BOARD LOCATOR LIST

DIODE		DIODE		DIODE		TRANSISTOR	
D1501	C-5	D1510	C-8	D1520	A-1	Q1503	B-8
D1502	B-5	D1511	C-8	D1521	C-1	Q1504	B-9
D1503	B-7	D1512	B-5	D1522	C-1	Q1507	B-5
D1504	B-7	D1513	A-5	D1523	C-2	Q1508	A-5
D1505	C-8	D1514	B-7	D1524	C-1	Q1509	B-8
D1506	B-8	D1515	B-8	D1525	C-2	Q1510	A-5
D1507	C-4	D1516	B-9	D1526	C-1	Q1511	D-8
D1508	C-5	D1517	B-8	D1533	D-7	Q1512	D-8
D1509	C-7	D1518	A-2	D1534	D-8	Q1513	D-8
		D1519	A-1	D1535	D-8	Q1515	A-2
						Q1519	B-2
						Q1522	B-2

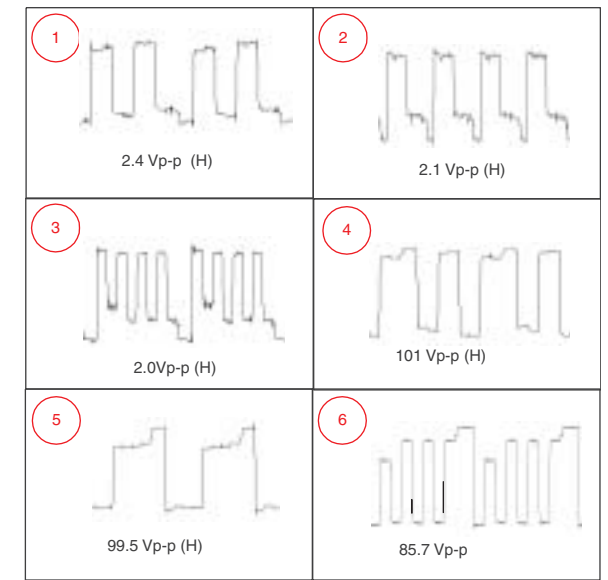
CX BOARD SCHEMATIC DIAGRAM



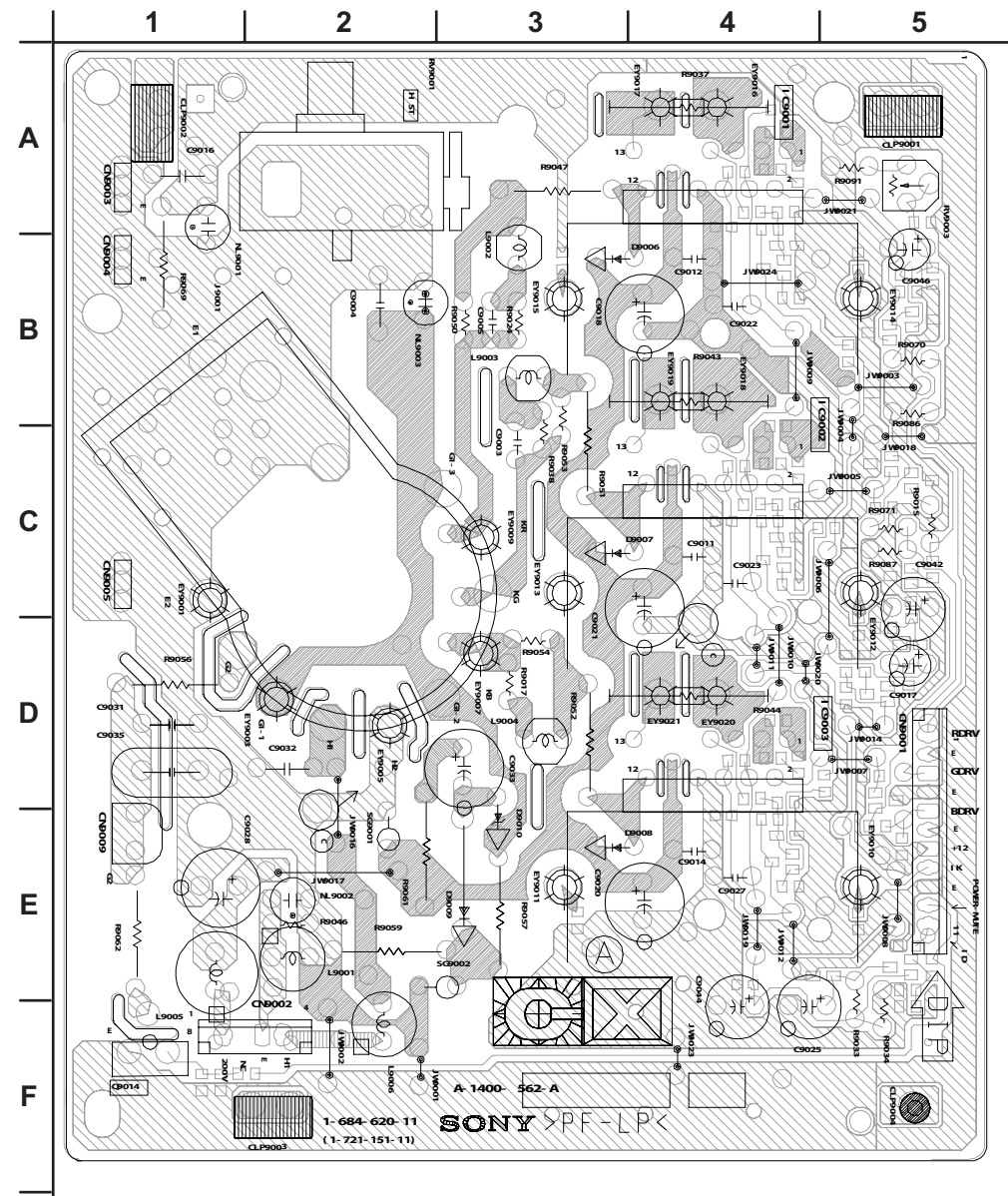
CX (VIDEO OUT)

9-965-981-01<DA4>CX

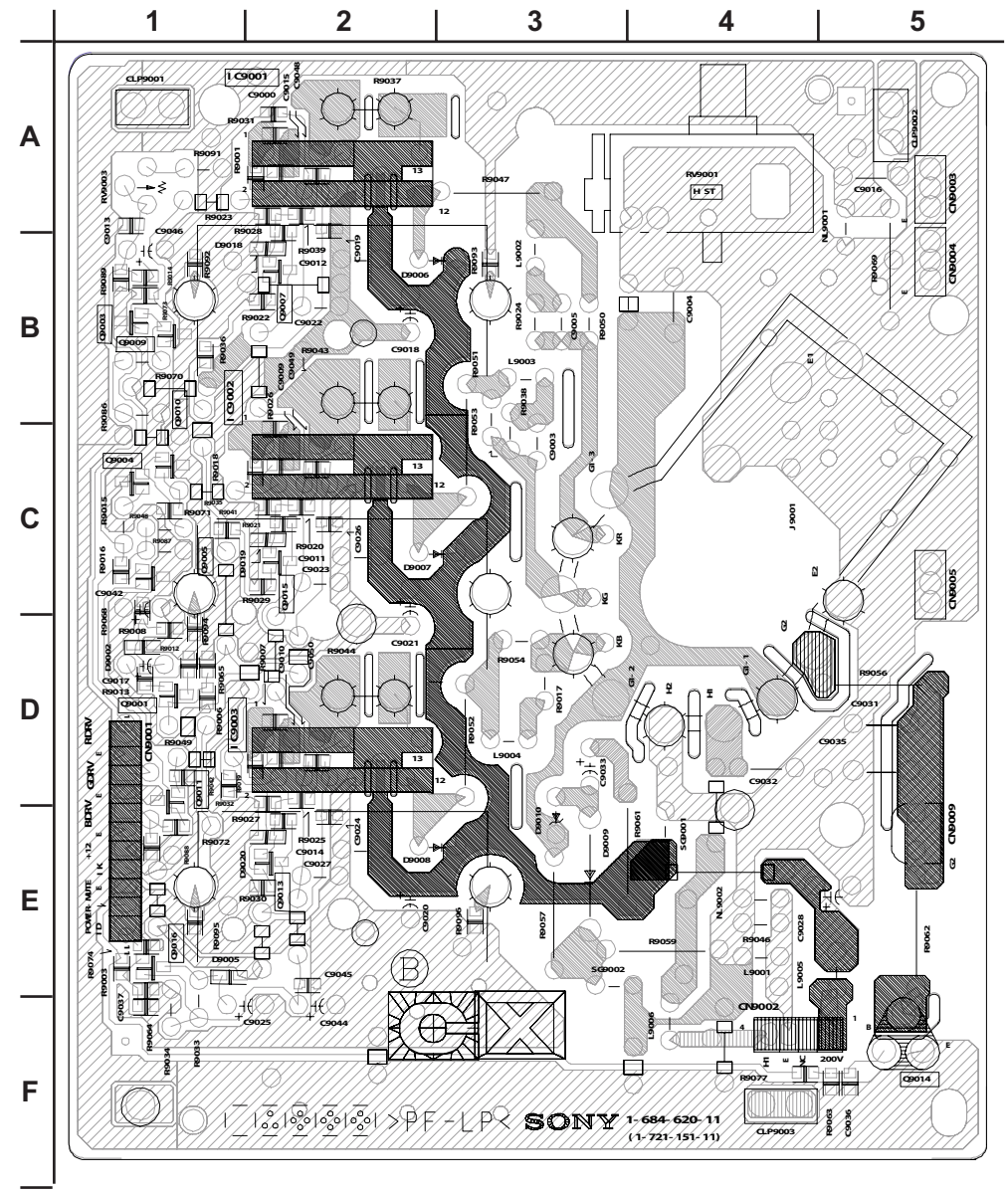
CX BOARD WAVEFORMS



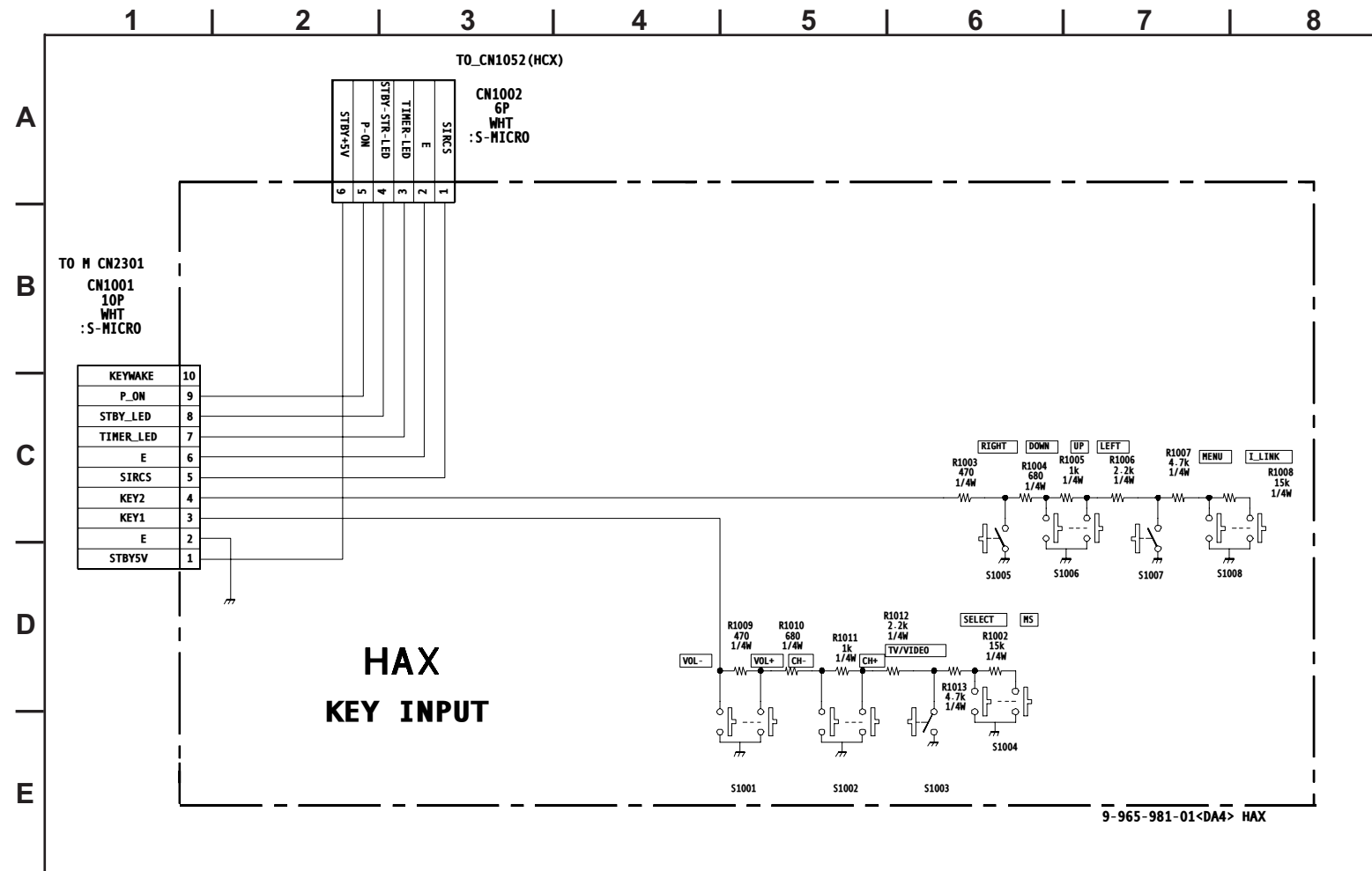
CX [VIDEO OUT]
COMPONENT SIDE



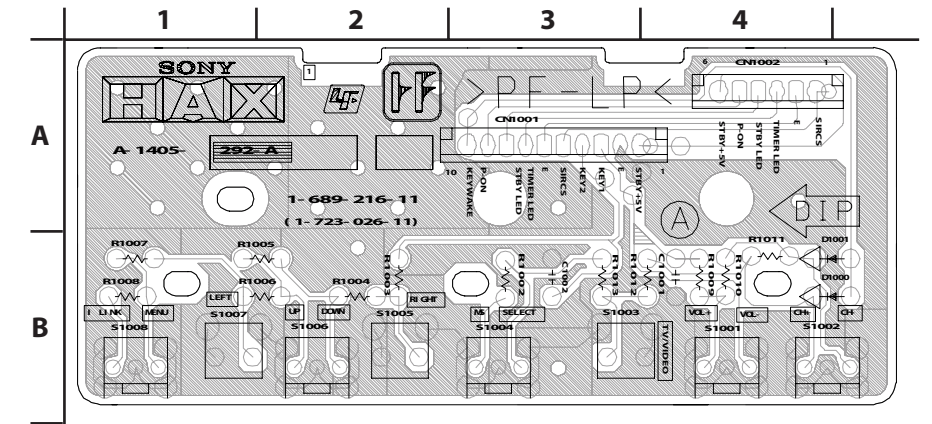
CX [VIDEO OUT]
CONDUCTOR SIDE



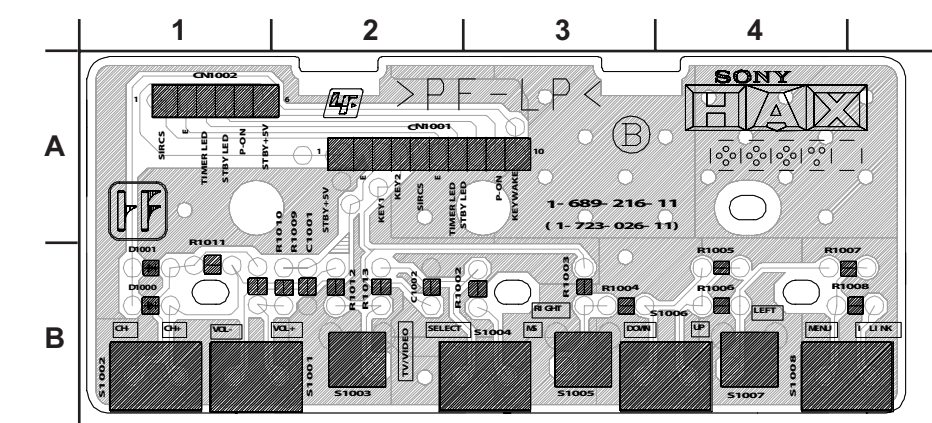
HAX BOARD SCHEMATIC DIAGRAM



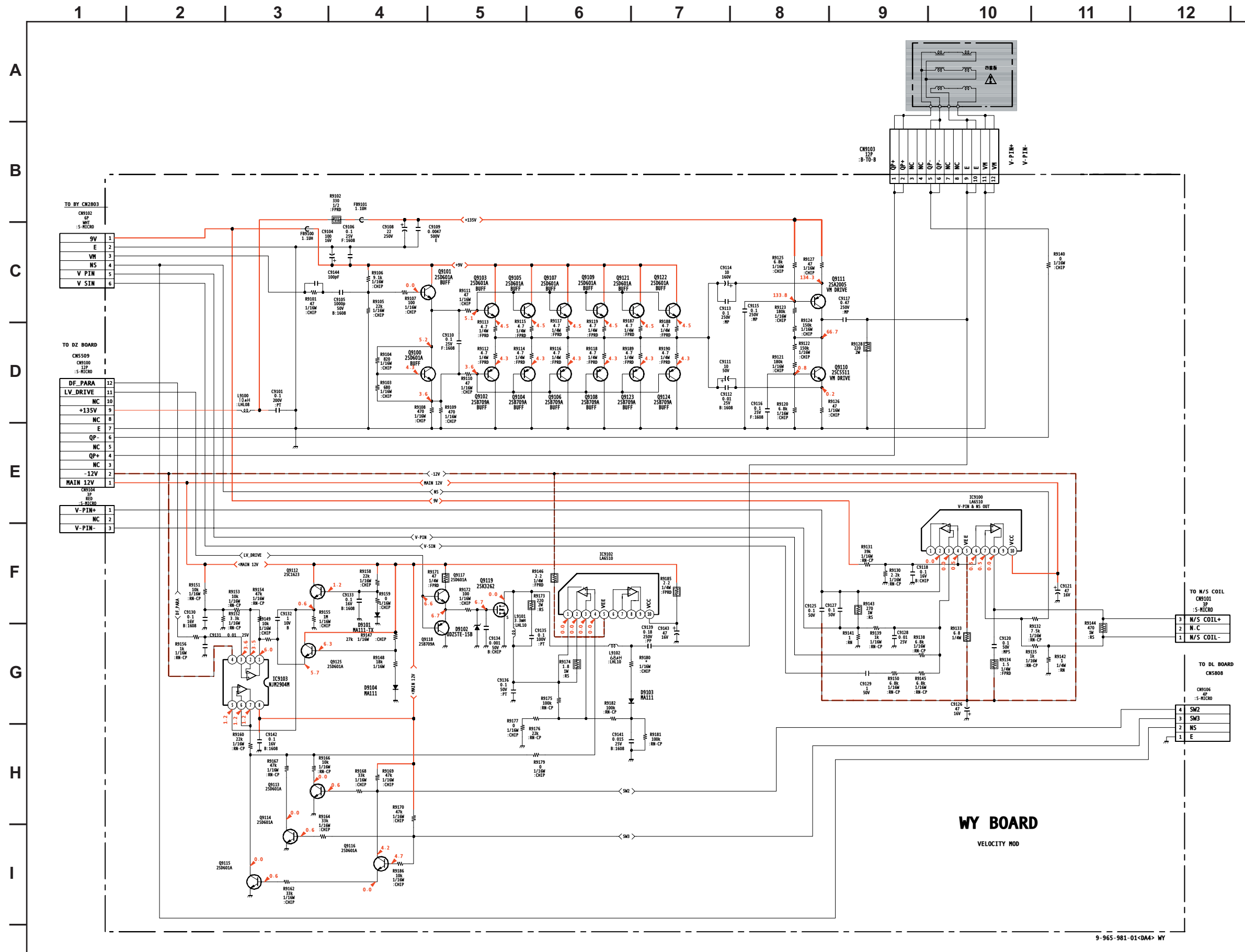
HAX [KEY INPUT]
COMPONENT SIDE



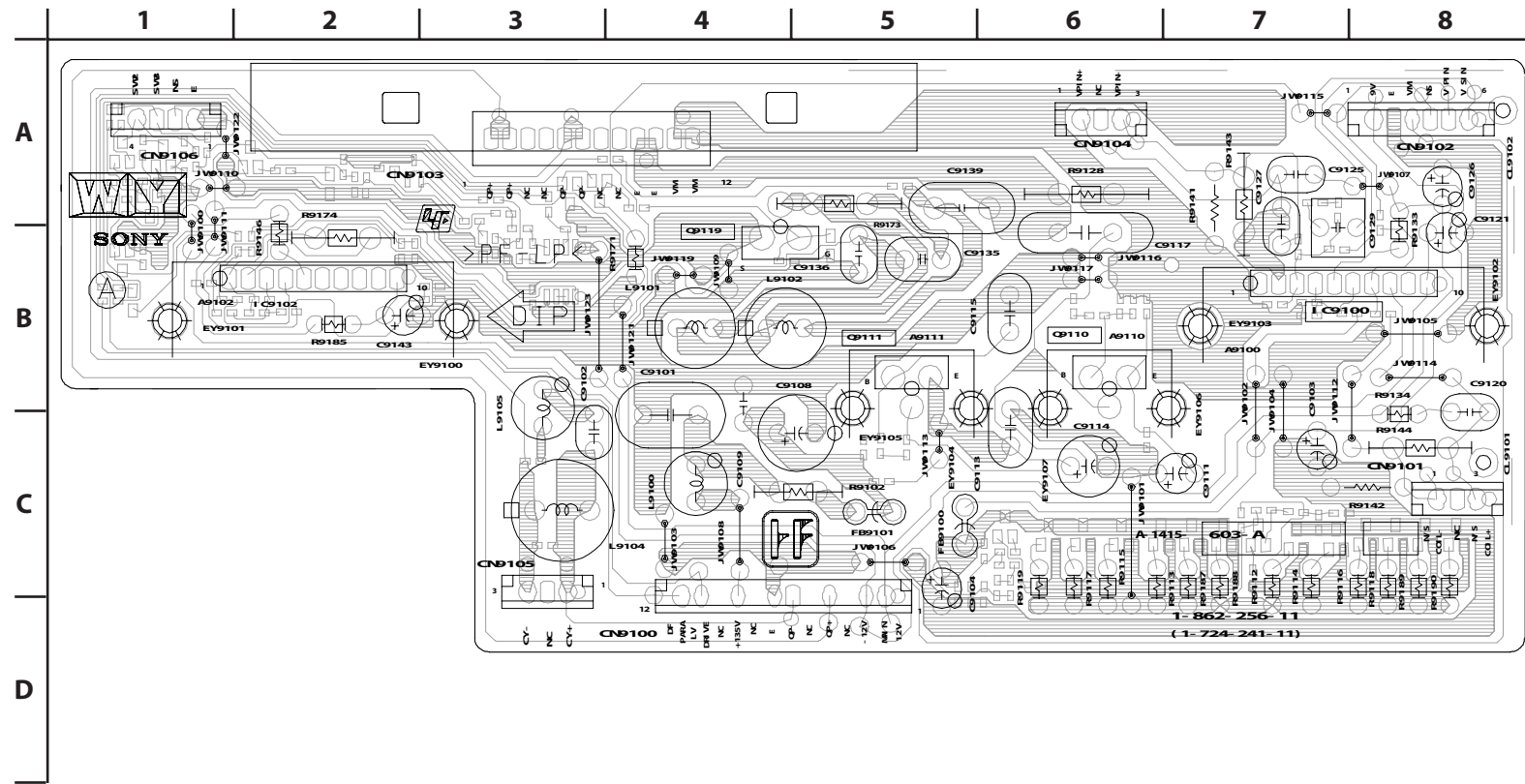
HAX [KEY INPUT]
CONDUCTOR SIDE



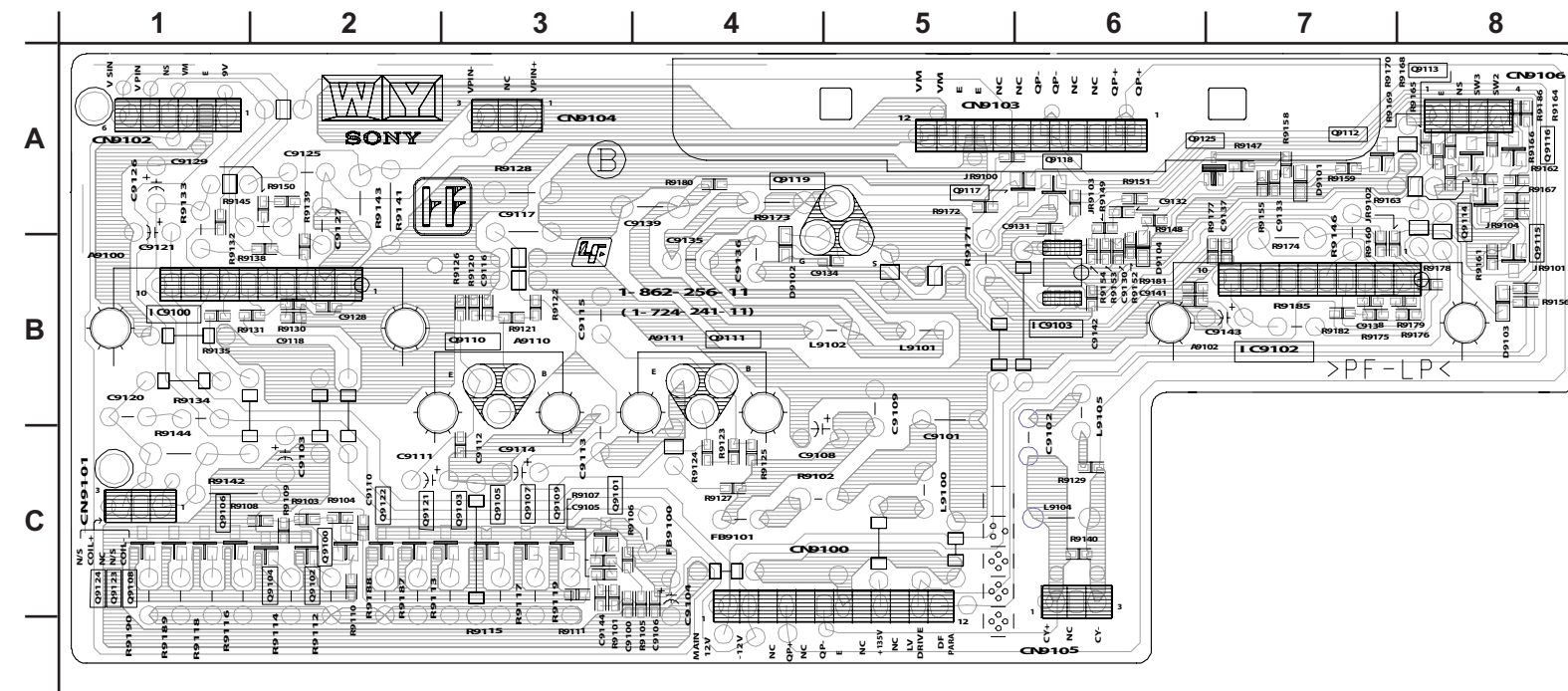
WY BOARD SCHEMATIC DIAGRAM



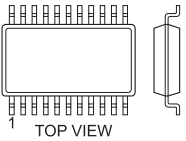
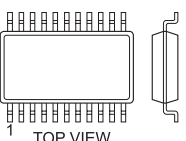
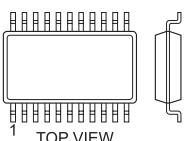
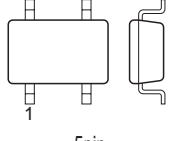
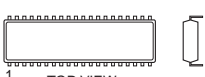
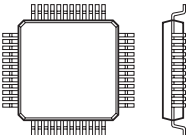
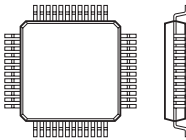
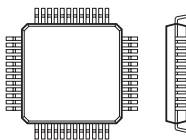
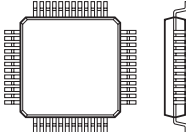
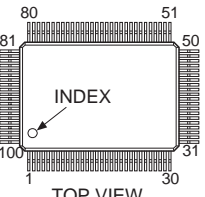
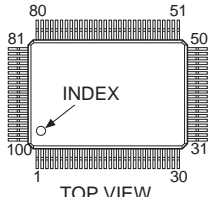
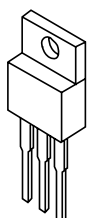
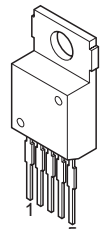
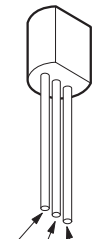
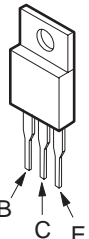
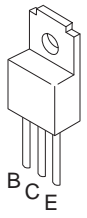
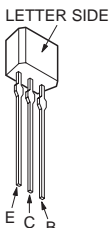
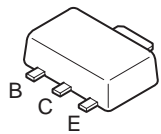
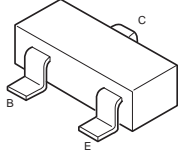
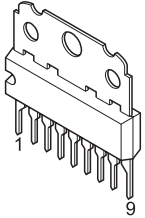
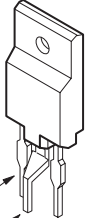
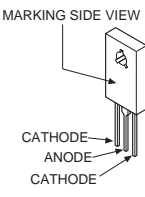
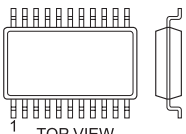
WY [VELOCITY MOD]
COMPONENT SIDE



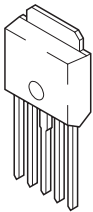
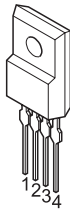
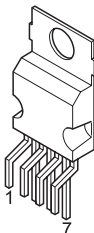
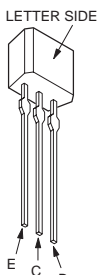
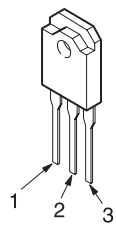
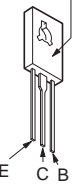
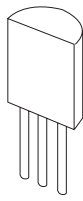
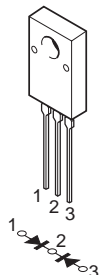
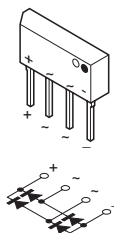
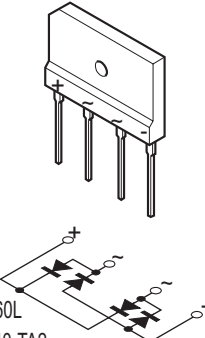
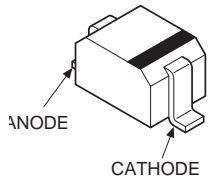
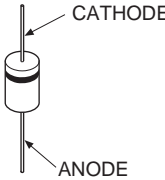
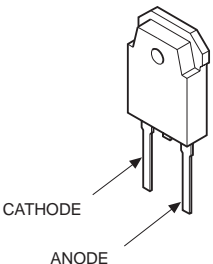
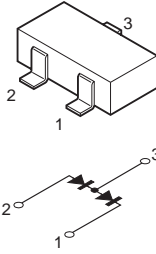
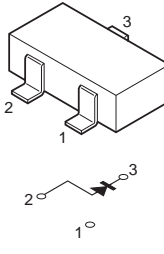
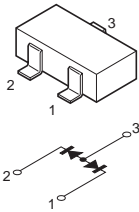
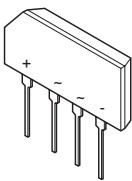
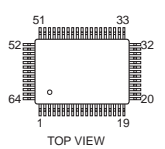
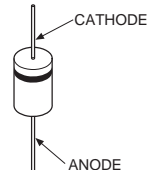
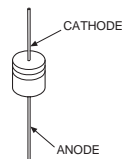
WY [VELOCITY MOD]
CONDUCTOR SIDE



5-5.SEMICONDUCTORS (1 OF 2)

 <p>14pin M52055FP TLC2932IPW TLC2933IPWR-12</p>	 <p>16pin CXD2085M-T4 SN74LV4053ANSR</p>	 <p>32pin BH3868AFS-E2</p>	 <p>5pin PST9120NL PST9145NL TC7SET08FU(TE85L)</p>	 <p>22pin CXA2026AS</p>
 <p>32pin CXD2073Q-T4</p>	 <p>48pin CXA2103Q CXA2150Q</p>	 <p>64pin TLC5733AIPM</p>	 <p>240pin CXD9509AQ</p>	 <p>CXA2151Q</p>
 <p>M306V2ME-153FP</p>	 <p>NJM79M12FA</p>	 <p>LA6500-FA</p>	 <p>2SA1208S-TP 2SA10910-TPE</p>	 <p>IRF614 IRFI644-G-LF36 IRFI9630GS</p>
 <p>2SA2005 2SC5511</p>	 <p>2SC3311A-QRSTA</p>	 <p>2SK2036(TE85L)</p>	 <p>DTA114EKA-T146 DTC114TKA-T146 DTC144EKA-T146 2SA1226 2SD601A-QRS-TX 2SB709A-QRS-TX 2SC2412K-T-146-QR 2SD2114KT146</p>	
 <p>TDA6111Q/N4</p>	 <p>2SC4632LS-CB7</p>	 <p>D5LC20U</p>	 <p>NJM2901M-TE2 NJM2903M-TE2 NJM2904M-TE2 NJM4558E(TE2) TC7WU04FU(TE12R)</p>	

SEMICONDUCTORS (2 OF 2)

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

SECTION 6: EXPLODED VIEWS

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

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

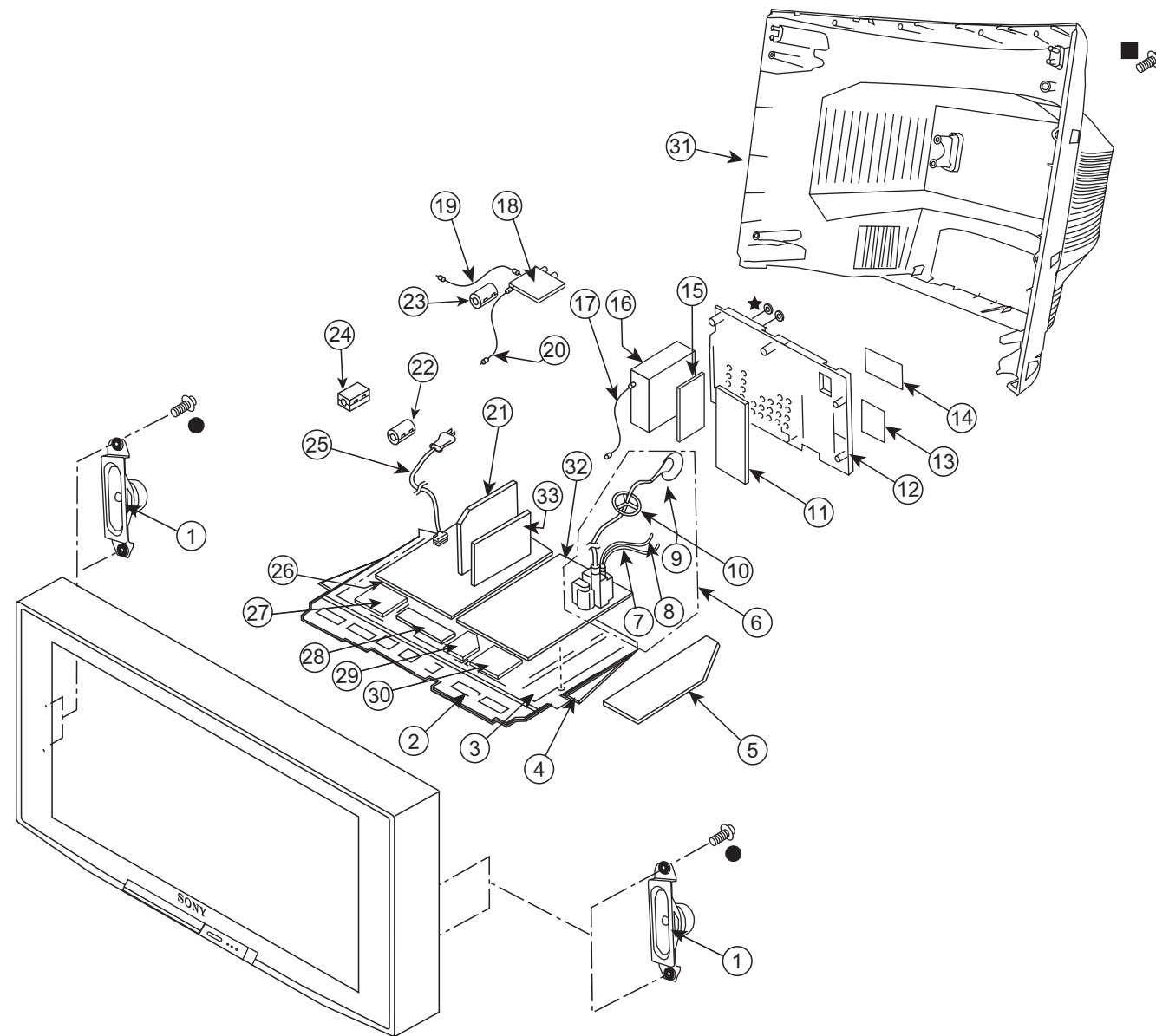
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

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


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


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



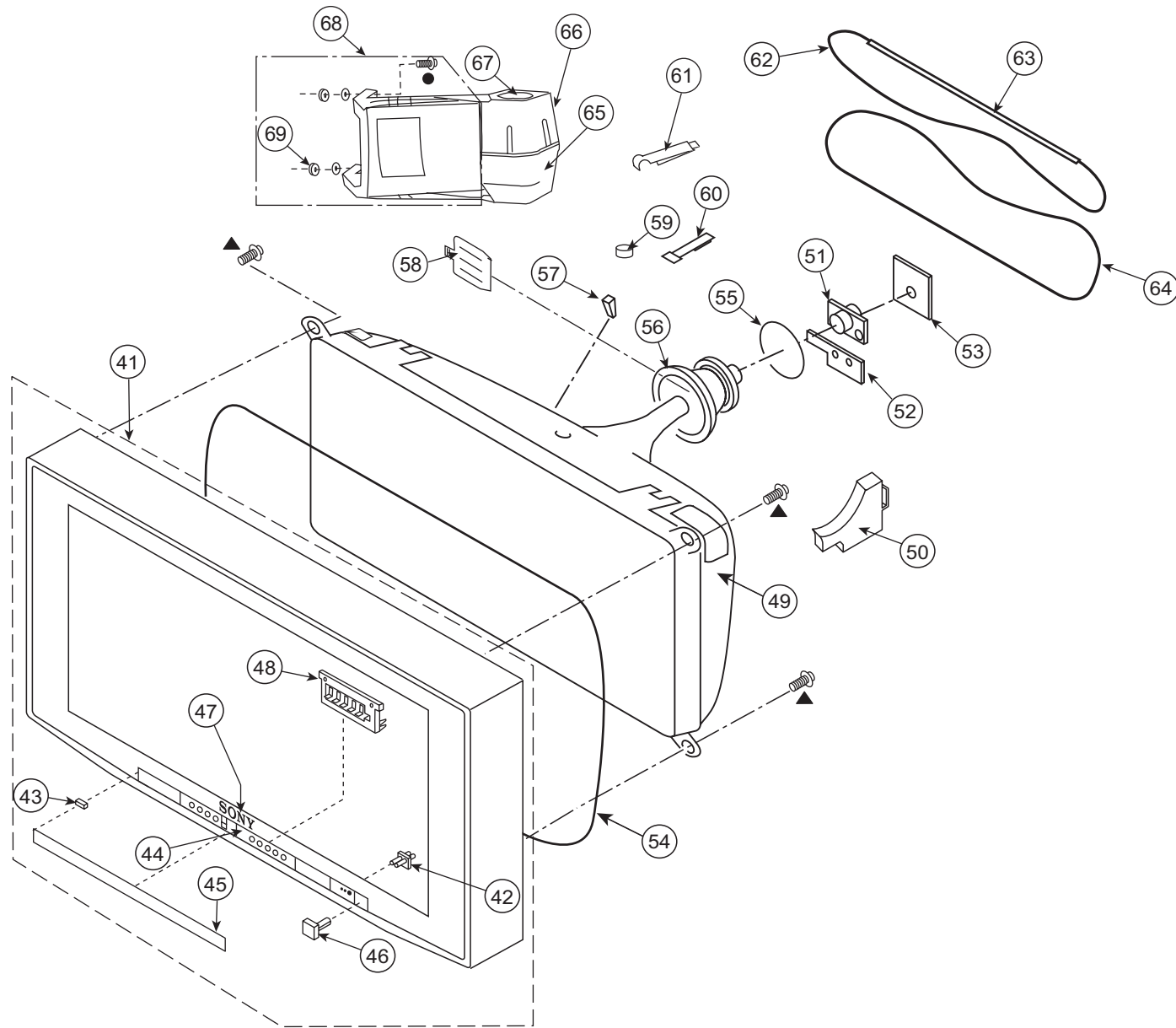
REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION
1	1-825-841-11	LOUDSPEAKER		19	1-829-702-11	COAXIAL CABLE WITH F-PLUG
* 2	4-102-134-05	BRACKET, H		* 20	1-555-110-00	P-P CABLE
* 3	4-095-271-02	BRACKET, MAIN (KD-34XS955 ONLY)		21	A-1087-830-A	M BOARD, COMPLETE
* 3	4-095-271-21	BRACKET, MAIN (KD-30XS955 ONLY)		22	1-500-586-11	FILTER, CLAMP (FERRITE CORE)
				23	1-543-793-11	FILTER, CLAMP (FERRITE CORE)
				24	1-500-082-11	CLAMP, SLEEVE FERRITE
* 4	4-102-133-21	BOARD, BOTTOM		\triangle 25	1-769-837-11	CORD, POWER(WITH NOISE FILTER)
* 5	A-1302-221-A	DL BOARD, COMPLETE (KD-34XS955 ONLY)		26	A-1088-024-A	A BOARD, COMPLETE (KD-34XS955 ONLY)
* 5	A-1302-223-B	DL BOARD, COMPLETE (KD-30XS955 ONLY)		26	A-1088-027-A	A BOARD, COMPLETE (KD-30XS955 ONLY)
\triangle 6	1-453-464-11	FBT ASSY NX-6200//X4J4	[7-9]	27	A-1111-236-A	HB BOARD, MOUNTED
\triangle 7	1-900-808-42	WIRE ASSY, G2		* 28	A-1405-292-A	HAX BOARD, MOUNTED
\triangle 8	1-900-805-19	WIRE ASSY, FOCUS HV		* 29	A-1303-030-A	QH BOARD, COMPLETE
\triangle 9	1-251-715-22	CAP ASSY, HIGH-VOLTAGE		* 30	A-1303-042-A	HGX BOARD, COMPLETE
10	4-084-918-01	HOLDER, HV CABLE		31	4-102-123-02	COVER, REAR (KD-34XS955 ONLY)
* 11	A-1303-037-A	UZ BOARD, COMPLETE		31	4-102-138-01	COVER, REAR (KD-30XS955 ONLY)
* 12	4-102-770-01	BRACKET, U		32	A-1088-029-A	D BOARD, COMPLETE (KD-34XS955 ONLY)
* 13	1-417-507-11	POD-HOST CERT,D-CABLE READY				
14	4-102-767-01	LABEL, TERMINAL		32	A-1088-030-A	D BOARD, COMPLETE (KD-30XS955 ONLY)
15	A-1302-939-A	P BOARD, COMPLETE				
15	A-1085-903-A	PA BOARD, COMPLETE				
<p>The P & PA Boards are interchangeable. Either board can be used as a replacement.</p>						
* 16	A-1606-921-A	Q BOX ASSEMBLY		32	A-1087-818-A	B BOARD, COMPLETE
<p>The Q Box Assembly contains the QM Board, QT Board, and the QU Board. These boards cannot be ordered separately.</p>						
* 17	1-829-191-11	CABLE, USB				
\triangle 18	8-597-906-00	ANTENNA SWITCH RFD-SA801				














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

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

6-2. PICTURE TUBE

- ▲ 4-046-765-12 SCREW, TAPPING 7+CROWN WASHER
- 4-384-096-01 SCREW (4X16), TAPPING, +P



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
41	X-2021-379-2	BEZNET ASSY (KD-34XS955 ONLY)	[42-48]		55	1-451-498-31	COIL, NA ROTATION
41	X-2021-378-3	BEZNET ASSY (KD-30XS955 ONLY)	[42-48]		56	8-451-530-41	DY Y36DEC-M2C (KD-34XS955 ONLY)
42	4-102-128-11	GUIDE, LED			56	1-451-551-21	DEFLECTION YOKE (Y32VEC-T) (KD-30XS955 ONLY)
43	4-102-131-11	DAMPER, DOOR					
44	4-102-768-01	LABEL, FRONT CONTROL		57	4-086-199-02	SPACER, DY	
45	4-102-127-31	DOOR, CONTROL		58	2-163-920-01	PLATE, TLH CORRECTION	
46	4-102-129-21	BUTTON, POWER		59	1-452-032-00	MAGNET, DISC	
47	3-704-179-01	EMBLEM (NO.9), SONY		60	4-051-734-21	PIECE B(120), CONV. CORRECT	
				61	4-102-284-01	CLIP, DGC	
48	4-093-611-02	BUTTON, MULTI			62	1-456-472-11	DEGAUSSING COIL (WITH LCC) (KD-34XS955 ONLY)
	49	8-735-218-05	CRT 36RDE(DDP) W86LXX015X (KD-34XS955 ONLY)		62	1-456-473-11	DEGAUSSING COIL (WITH LCC) (KD-30XS955 ONLY)
	49	8-735-228-05	CRT 32RDEN(DDP)(FILMLESS) W76LXY000X (KD-30XS955 ONLY)				
				63	4-103-011-01	TUBE, DGC (C) (KD-30XS955 ONLY)	
50	4-102-136-01	SUPPORTER, CRT			64	1-456-472-21	DEGAUSSING COIL (WITH LCC) (KD-34XS955 ONLY)
	51	8-453-023-21	NECK ASSEMBLY NA328-M2 (KD-34XS955 ONLY)		64	1-456-473-21	DEGAUSSING COIL (WITH LCC) (KD-30XS955 ONLY)
	51	8-453-022-21	NECK ASSEMBLY NA2920-M2 (KD-30XS955 ONLY)				
*	52	A-1415-862-A	WY (VAR) BOARD, MOUNTED (KD-34XS955 ONLY)	*	65	4-086-700-23	BOX, WOOFER (BOTTOM)
*	52	A-1415-869-A	WY (VAR) BOARD, MOUNTED (KD-30XS955 ONLY)	*	66	4-086-699-21	BOX, WOOFER (TOP)
*	53	A-1400-562-A	CX BOARD, MOUNTED	67	1-825-105-12	LOUDSPEAKER (10 CM)	
	54	1-456-850-11	COIL, LANDING CORRECTION (KD-34XS955 ONLY)	*	68	X-4040-296-2	ARM ASSY, WOOFER BOX (KD-30XS955 ONLY)
	54	1-419-792-11	LANDING CORRECTION COIL (KD-30XS955 ONLY)	68	X-2021-380-1	ASSY, SPEAKER ARM [69]	
				69	4-374-745-31	CUSHION (A)	

The Landing Correction Coil attaches to the Beznet but is NOT part of the Beznet Assembly.

SECTION 7: ELECTRICAL PARTS LIST

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

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

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

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

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



RESISTORS

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

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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES				
<div style="border: 1px solid black; padding: 5px; display: inline-block;">PA</div>											
*	A-1085-903-A	PA BOARD, COMPLETE		C9533	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
		The P and PA Boards are interchangeable. Either board can be used as a replacement.		C9534	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
		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.		C9535	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
		CAPACITOR		C9537	1-107-826-11	CERAMIC CHIP	0.1 μ F 10% 16V				
				C9538	1-162-964-11	CERAMIC CHIP	0.001 μ F 10% 50V				
				C9540	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9541	1-107-826-11	CERAMIC CHIP	0.1 μ F 10% 16V				
				C9542	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9543	1-162-966-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
				C9545	1-162-966-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
				C9546	1-164-230-11	CERAMIC CHIP	220pF 5% 50V				
				C9547	1-107-826-11	CERAMIC CHIP	0.1 μ F 10% 16V				
				C9549	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9550	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9551	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9552	1-126-246-11	ELECT CHIP	220 μ F 20% 4V				
				C9553	1-162-966-11	CERAMIC CHIP	0.0022 μ F 10% 50V				
				C9554	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9555	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9557	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9558	1-107-826-11	CERAMIC CHIP	0.1 μ F 10% 16V				
				C9559	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9560	1-126-246-11	ELECT CHIP	220 μ F 20% 4V				
				C9561	1-100-756-91	CERAMIC CHIP	0.047 μ F 50V				
				C9562	1-127-692-11	CERAMIC CHIP	10 μ F 10% 16V				
				C9563	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9566	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9570	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				
				C9571	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9575	1-162-970-11	CERAMIC CHIP	0.01 μ F 10% 25V				
				C9576	1-126-394-11	ELECT CHIP	10 μ F 20% 16V				
				C9578	1-216-864-11	SHORT CHIP					
				C9579	1-216-864-11	SHORT CHIP					
				C9583	1-107-826-11	CERAMIC CHIP	0.1 μ F 10% 16V				
				C9584	1-100-566-91	CERAMIC CHIP	0.1 μ F 10% 25V				



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C9585	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9586	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9587	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9588	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9589	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9623	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9824	1-162-919-11	CERAMIC CHIP	22pF 5% 50V				
C9825	1-162-919-11	CERAMIC CHIP	22pF 5% 50V				
C9826	1-162-919-11	CERAMIC CHIP	22pF 5% 50V				
C9828	1-126-394-11	ELECT CHIP	10μF 20% 16V				
C9830	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9831	1-126-394-11	ELECT CHIP	10μF 20% 16V				
C9832	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V				
C9833	1-100-566-91	CERAMIC CHIP	0.1μF 10% 25V				
C9835	1-100-588-21	ELECT CHIP	1000μF 20% 6.3V				
C9836	1-126-394-11	ELECT CHIP	10μF 20% 16V				
C9839	1-126-394-11	ELECT CHIP	10μF 20% 16V				
C9841	1-100-118-21	ELECT CHIP	82μF 20% 16V				
C9842	1-137-897-21	ELECT CHIP	150μF 20% 4V				
C9843	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V				
		CONNECTOR					
*	CN9500	1-818-400-11	HDMI CONNECTOR				
	CN9504	1-564-593-11	PLUG, CONNECTOR 14P				
		DIODE					
D9500	8-719-210-39	DIODE	EC10QS-04				
D9501	6-500-294-01	DIODE	PTZ-TE25-3.9B				
D9502	8-719-977-28	DIODE	DTZ10B				
D9503	8-719-977-28	DIODE	DTZ10B				
D9506	8-719-404-50	DIODE	MA111-TX				
D9507	8-719-404-50	DIODE	MA111-TX				
		FERRITE BEAD					
FB9504	1-414-235-22	FERRITE	0μH				
FB9505	1-414-235-22	FERRITE	0μH				
FB9506	1-414-235-22	FERRITE	0μH				
FB9507	1-414-235-22	FERRITE	0μH				
FB9508	1-414-235-22	FERRITE	0μH				
FB9509	1-414-235-22	FERRITE	0μH				
FB9510	1-414-235-22	FERRITE	0μH				
FB9512	1-414-235-22	FERRITE	0μH				
		FILTER					
*	FL9501	1-813-308-11	INDUCTOR 0μH				
*	FL9504	1-813-308-11	INDUCTOR 0μH				
*	FL9505	1-813-308-11	INDUCTOR 0μH				
*	FL9506	1-813-308-11	INDUCTOR 0μH				
		IC					
IC9500	6-706-257-01	IC	FMS6418AM16X				
IC9502	6-704-819-01	IC	CS4335-KSZR				
IC9503	6-704-407-01	IC	PQ1CZ41H2ZPH				
IC9504	6-704-001-01	IC	BR24L02F-WE2				
IC9505	6-704-499-01	IC	SIH993CTG100				
IC9506	6-703-042-01	IC	CD4052BNSR				
IC9509	6-550-014-01	TRANSISTOR	SSM6N15FU(TE85R)				
IC9514	8-759-331-71	IC	NJM4558E(TE2)				
IC9517	6-805-691-01	IC	MB89965CpFV1-G-125E1				
IC9521	8-759-642-22	IC	UPC29M05T-E2				
		JACK					
J9503	1-794-623-11	JACK, PIN	2P				
		COIL					
L9501	1-416-948-21	INDUCTOR	10μH				
L9502	1-400-303-21	INDUCTOR	68μH				
		IC LINK					
PS9500	1-576-415-21	FUSE	2A 32V				
		TRANSISTOR					
Q9501	8-729-024-88	TRANSISTOR	MUN2212T1				
Q9502	8-729-421-22	TRANSISTOR	UN2211				
Q9503	8-729-027-62	TRANSISTOR	DTC144WKA-T146				
Q9506	8-729-024-88	TRANSISTOR	MUN2212T1				
Q9511	8-729-421-22	TRANSISTOR	UN2211				
Q9514	8-729-027-62	TRANSISTOR	DTC144WKA-T146				
Q9516	8-729-421-22	TRANSISTOR	UN2211				
Q9517	8-729-421-22	TRANSISTOR	UN2211				



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
	RESISTOR					R9559	1-216-809-11	METAL CHIP	100	5%	1/10W
R9501	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9560	1-216-864-11	SHORT CHIP			
R9502	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9562	1-216-809-11	METAL CHIP	100	5%	1/10W
R9505	1-216-841-11	METAL CHIP	47K	5%	1/10W	R9563	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9506	1-216-864-11	SHORT CHIP				R9564	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9507	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9508	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9566	1-216-864-11	SHORT CHIP			
R9509	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9569	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9510	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9572	1-216-837-11	METAL CHIP	22K	5%	1/10W
R9511	1-216-803-11	METAL CHIP	33	5%	1/10W	R9574	1-216-809-11	METAL CHIP	100	5%	1/10W
R9512	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9575	1-216-809-11	METAL CHIP	100	5%	1/10W
R9513	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9576	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9514	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9577	1-216-857-11	METAL CHIP	1M	5%	1/10W
R9515	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9580	1-216-809-11	METAL CHIP	100	5%	1/10W
R9516	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9581	1-216-809-11	METAL CHIP	100	5%	1/10W
R9517	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R9582	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9518	1-216-857-11	METAL CHIP	1M	5%	1/10W	R9584	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9519	1-216-803-11	METAL CHIP	33	5%	1/10W	R9585	1-216-809-11	METAL CHIP	100	5%	1/10W
R9520	1-216-816-11	METAL CHIP	390	5%	1/10W	R9586	1-216-809-11	METAL CHIP	100	5%	1/10W
R9526	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R9592	1-216-809-11	METAL CHIP	100	5%	1/10W
R9528	1-216-837-11	METAL CHIP	22K	5%	1/10W	R9595	1-216-817-11	METAL CHIP	470	5%	1/10W
R9529	1-216-850-11	METAL CHIP	270K	5%	1/10W	R9597	1-216-803-11	METAL CHIP	33	5%	1/10W
R9530	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9602	1-216-809-11	METAL CHIP	100	5%	1/10W
R9531	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R9606	1-216-864-11	SHORT CHIP			
R9532	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W	R9611	1-216-864-11	SHORT CHIP			
R9533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R9612	1-216-864-11	SHORT CHIP			
R9534	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R9613	1-216-809-11	METAL CHIP	100	5%	1/10W
R9535	1-216-845-11	METAL CHIP	100K	5%	1/10W	R9614	1-216-809-11	METAL CHIP	100	5%	1/10W
R9538	1-218-823-11	METAL CHIP	100	0.50%	1/10W	R9615	1-216-809-11	METAL CHIP	100	5%	1/10W
R9539	1-216-821-11	METAL CHIP	1K	5%	1/10W	R9616	1-216-809-11	METAL CHIP	100	5%	1/10W
R9540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R9623	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9541	1-218-694-11	METAL CHIP	1.2K	0.50%	1/10W	R9624	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9542	1-216-850-11	METAL CHIP	270K	5%	1/10W	R9625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9543	1-218-686-11	METAL CHIP	560	0.50%	1/10W	R9626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9544	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R9627	1-216-809-11	METAL CHIP	100	5%	1/10W
R9546	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R9850	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9547	1-216-845-11	METAL CHIP	100K	5%	1/10W	R9851	1-216-821-11	METAL CHIP	1K	5%	1/10W
R9548	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R9852	1-218-644-11	METAL CHIP	10	0.50%	1/10W
R9552	1-216-817-11	METAL CHIP	470	5%	1/10W	R9853	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9555	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R9854	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R9860	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
R9557	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W	R9864	1-218-701-11	METAL CHIP	2.4K	0.50%	1/10W
R9558	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R9866	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R9867	1-216-821-11	METAL CHIP	1K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES
R9868	1-216-833-11	METAL CHIP	10K 5% 1/10W
R9869	1-216-833-11	METAL CHIP	10K 5% 1/10W
R9882	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9884	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9885	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9886	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9887	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9888	1-218-847-11	METAL CHIP	1K 0.50% 1/10W
R9890	1-218-665-11	METAL CHIP	75 0.50% 1/10W
R9891	1-216-809-11	METAL CHIP	100 5% 1/10W
R9892	1-216-809-11	METAL CHIP	100 5% 1/10W
RESISTOR BRIDGE			
RB9500	1-234-524-21	RES, CHIP NETWORK 33	(3216)
RB9510	1-233-576-11	RES, CHIP NETWORK 100	(3216)
RB9511	1-233-574-11	RES, CHIP NETWORK 10	(3216)
RB9512	1-233-574-11	RES, CHIP NETWORK 10	(3216)
RB9517	1-236-908-11	NETWORK RESISTOR(CHIP)	10K
VARISTOR			
VD9500	6-500-701-01	DIODE	PGB1010603NR
VD9501	6-500-701-01	DIODE	PGB1010603NR
VD9502	6-500-701-01	DIODE	PGB1010603NR
VD9503	6-500-701-01	DIODE	PGB1010603NR
VD9504	6-500-701-01	DIODE	PGB1010603NR
VD9505	6-500-701-01	DIODE	PGB1010603NR
VD9506	6-500-701-01	DIODE	PGB1010603NR
VD9507	6-500-701-01	DIODE	PGB1010603NR
VD9518	6-500-701-01	DIODE	PGB1010603NR
VD9519	6-500-701-01	DIODE	PGB1010603NR
CRYSTAL			
X9501	1-767-984-21	VIBRATOR, CRYSTAL	



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.

A-1087-818-A B BOARD, COMPLETE

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
C2801	1-117-681-11	ELECT CHIP	100µF 20% 16V
C2802	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2804	1-162-923-11	CERAMIC CHIP	47pF 5% 50V
C2805	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C2806	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2808	1-128-996-11	ELECT CHIP	4.7µF 20% 50V
C2809	1-117-681-11	ELECT CHIP	100µF 20% 16V
C2810	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2811	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2812	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2813	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2814	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2815	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2816	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2817	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2818	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
C2819	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2820	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C2821	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2822	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2823	1-117-681-11	ELECT CHIP	100µF 20% 16V
C2824	1-117-681-11	ELECT CHIP	100µF 20% 16V
C2825	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
C2826	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2827	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2828	1-110-563-11	CERAMIC CHIP	0.068µF 10% 16V
C2829	1-162-968-11	CERAMIC CHIP	0.0047µF 10% 50V
C2830	1-128-996-11	ELECT CHIP	4.7µF 20% 50V
C2831	1-117-681-11	ELECT CHIP	100µF 20% 16V
C2833	1-127-715-91	CERAMIC CHIP	0.22µF 10% 16V
C2834	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2835	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C2836	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2837	1-117-681-11	ELECT CHIP	100µF 20% 16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2840	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3336	1-216-864-11	SHORT CHIP			
C2841	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3338	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2842	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3339	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V
C2843	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3340	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2844	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3342	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2845	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3343	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C2846	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C3344	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2847	1-127-715-91	CERAMIC CHIP	0.22μF	10%	16V	C3345	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C2849	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V	C3347	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2850	1-117-681-11	ELECT CHIP	100μF	20%	16V	C3348	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C2851	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3349	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3001	1-126-205-11	ELECT CHIP	47μF	20%	6.3V	C3350	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3002	1-126-205-11	ELECT CHIP	47μF	20%	6.3V	C3351	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3003	1-126-205-11	ELECT CHIP	47μF	20%	6.3V	C3353	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3207	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3354	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3208	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3355	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3209	1-126-205-11	ELECT CHIP	47μF	20%	6.3V	C3356	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3301	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3357	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3302	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3358	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3303	1-126-205-11	ELECT CHIP	47μF	20%	6.3V	C3359	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3304	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3360	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3305	1-137-710-11	CERAMIC CHIP	10μF	20%	6.3V	C3361	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3306	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3362	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3307	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3363	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3311	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3364	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3312	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3365	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3313	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3366	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3314	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3367	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3315	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3368	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3316	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3370	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3317	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3371	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3318	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3372	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3319	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3373	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3320	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3374	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3321	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3375	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V
C3323	1-100-507-91	CERAMIC CHIP	4.7μF	20%	6.3V	C3376	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3324	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3377	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3325	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3378	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3328	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3379	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3329	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3380	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3331	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3383	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C3332	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3384	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C3333	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3385	1-126-205-11	ELECT CHIP	47μF	20%	6.3V
C3335	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C3386	1-126-205-11	ELECT CHIP	47μF	20%	6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
JR3134	1-216-864-11	SHORT CHIP		TRANSISTOR			
JR3136	1-216-864-11	SHORT CHIP		Q2801	8-729-122-63	TRANSISTOR	2SA1226-E4
JR3138	1-216-864-11	SHORT CHIP		Q2802	8-729-600-22	TRANSISTOR	2SA1235-F
JR3140	1-216-864-11	SHORT CHIP		Q2803	8-729-600-22	TRANSISTOR	2SA1235-F
JR3142	1-216-864-11	SHORT CHIP		Q2804	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3144	1-216-864-11	SHORT CHIP		Q2805	8-729-600-22	TRANSISTOR	2SA1235-F
JR3146	1-216-864-11	SHORT CHIP		Q2806	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3148	1-216-864-11	SHORT CHIP		Q2807	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3150	1-216-864-11	SHORT CHIP		Q2811	8-729-122-63	TRANSISTOR	2SA1226-E4
JR3152	1-216-864-11	SHORT CHIP		Q2812	8-729-122-63	TRANSISTOR	2SA1226-E4
JR3154	1-216-864-11	SHORT CHIP		Q2813	8-729-122-63	TRANSISTOR	2SA1226-E4
JR3156	1-216-864-11	SHORT CHIP		Q2818	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3158	1-216-864-11	SHORT CHIP		Q2822	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3160	1-216-864-11	SHORT CHIP		Q2823	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3161	1-216-864-11	SHORT CHIP		Q2824	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3162	1-216-864-11	SHORT CHIP		Q2825	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3163	1-216-864-11	SHORT CHIP		Q2826	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3168	1-216-864-11	SHORT CHIP		Q3001	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR3170	1-216-864-11	SHORT CHIP		Q3002	8-729-120-28	TRANSISTOR	2SC1623-L5L6
COIL				Q3301	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L2801	1-469-555-21	INDUCTOR	10μH	Q3302	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
L2803	1-469-555-21	INDUCTOR	10μH	Q3312	8-729-600-22	TRANSISTOR	2SA1235-F
L2804	1-469-555-21	INDUCTOR	10μH	Q3313	8-729-010-05	TRANSISTOR	MSB709-RT1
L2805	1-469-555-21	INDUCTOR	10μH	Q3314	8-729-010-25	TRANSISTOR	MSD601-RT1
L2806	1-469-555-21	INDUCTOR	10μH	Q3315	8-729-600-22	TRANSISTOR	2SA1235-F
L2807	1-469-555-21	INDUCTOR	10μH	Q3316	8-729-600-22	TRANSISTOR	2SA1235-F
L2811	1-469-555-21	INDUCTOR	10μH	Q3317	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2812	1-216-864-11	SHORT CHIP		Q3318	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L3301	1-469-555-21	INDUCTOR	10μH	Q3319	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L3302	1-469-561-21	INDUCTOR	100μH	Q3411	8-729-600-22	TRANSISTOR	2SA1235-F
L3303	1-469-561-21	INDUCTOR	100μH	Q3412	8-729-600-22	TRANSISTOR	2SA1235-F
L3307	1-469-555-21	INDUCTOR	10μH	Q3413	8-729-600-22	TRANSISTOR	2SA1235-F
L3308	1-469-555-21	INDUCTOR	10μH	RESISTOR			
L3309	1-469-555-21	INDUCTOR	10μH	R2801	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W
L3310	1-469-555-21	INDUCTOR	10μH	R2803	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
L3311	1-216-864-11	SHORT CHIP		R2804	1-216-805-11	METAL CHIP	47 5% 1/10W
L3315	1-469-549-21	INDUCTOR	1μH	R2805	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
L3317	1-412-026-11	INDUCTOR	1μH	R2806	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
				R2807	1-216-809-11	METAL CHIP	100 5% 1/10W
				R2808	1-216-834-11	METAL CHIP	12K 5% 1/10W
				R2809	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
				R2810	1-216-825-11	METAL CHIP	2.2K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2811	1-216-809-11	METAL CHIP	100	5%	1/10W	R2862	1-216-809-11	METAL CHIP	100	5%	1/10W
R2812	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R2865	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2813	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2866	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2815	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2867	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2816	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2868	1-216-809-11	METAL CHIP	100	5%	1/10W
R2817	1-216-809-11	METAL CHIP	100	5%	1/10W	R2869	1-216-809-11	METAL CHIP	100	5%	1/10W
R2818	1-216-809-11	METAL CHIP	100	5%	1/10W	R2870	1-216-809-11	METAL CHIP	100	5%	1/10W
R2819	1-216-809-11	METAL CHIP	100	5%	1/10W	R2880	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2820	1-216-809-11	METAL CHIP	100	5%	1/10W	R2881	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2821	1-216-809-11	METAL CHIP	100	5%	1/10W	R2883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2823	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2824	1-216-809-11	METAL CHIP	100	5%	1/10W	R2885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2825	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2886	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2826	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R2887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2827	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2889	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2828	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	R2890	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2830	1-216-818-11	METAL CHIP	560	5%	1/10W	R2892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2832	1-216-809-11	METAL CHIP	100	5%	1/10W	R2894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2833	1-216-809-11	METAL CHIP	100	5%	1/10W	R2895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2834	1-216-809-11	METAL CHIP	100	5%	1/10W	R2896	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2835	1-216-809-11	METAL CHIP	100	5%	1/10W	R2897	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2836	1-216-809-11	METAL CHIP	100	5%	1/10W	R2898	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2837	1-216-809-11	METAL CHIP	100	5%	1/10W	R2899	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2838	1-216-809-11	METAL CHIP	100	5%	1/10W	R2900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2839	1-216-809-11	METAL CHIP	100	5%	1/10W	R2901	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2840	1-216-809-11	METAL CHIP	100	5%	1/10W	R2902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2841	1-216-809-11	METAL CHIP	100	5%	1/10W	R2907	1-218-656-11	METAL CHIP	33	0.50%	1/10W
R2842	1-216-809-11	METAL CHIP	100	5%	1/10W	R2908	1-218-656-11	METAL CHIP	33	0.50%	1/10W
R2843	1-216-809-11	METAL CHIP	100	5%	1/10W	R2909	1-218-656-11	METAL CHIP	33	0.50%	1/10W
R2844	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R2911	1-216-864-11	SHORT CHIP			
R2845	1-216-809-11	METAL CHIP	100	5%	1/10W	R2912	1-216-864-11	SHORT CHIP			
R2846	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R2919	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R2847	1-216-809-11	METAL CHIP	100	5%	1/10W	R2920	1-216-864-11	SHORT CHIP			
R2848	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2921	1-216-864-11	SHORT CHIP			
R2849	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2922	1-216-864-11	SHORT CHIP			
R2850	1-216-809-11	METAL CHIP	100	5%	1/10W	R3000	1-216-809-11	METAL CHIP	100	5%	1/10W
R2851	1-216-815-11	METAL CHIP	330	5%	1/10W	R3001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2853	1-216-864-11	SHORT CHIP				R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2854	1-216-864-11	SHORT CHIP				R3003	1-216-864-11	SHORT CHIP			
R2858	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R3280	1-218-838-11	METAL CHIP	430	0.50%	1/10W
R2860	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3281	1-218-847-11	METAL CHIP	1K	0.50%	1/10W
R2861	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3282	1-218-873-11	METAL CHIP	12K	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3283	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3403	1-216-813-11	METAL CHIP	220	5%	1/10W
R3284	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3404	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3285	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3286	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3413	1-216-809-11	METAL CHIP	100	5%	1/10W
R3287	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3414	1-216-809-11	METAL CHIP	100	5%	1/10W
R3288	1-216-837-11	METAL CHIP	22K	5%	1/10W	R3415	1-216-809-11	METAL CHIP	100	5%	1/10W
R3289	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3416	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3290	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3417	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3291	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3418	1-218-684-11	METAL CHIP	470	0.50%	1/10W
R3320	1-216-864-11	SHORT CHIP				R3419	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3321	1-218-703-11	METAL CHIP	3K	0.50%	1/10W	R3420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3322	1-216-805-11	METAL CHIP	47	5%	1/10W	R3421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3323	1-216-809-11	METAL CHIP	100	5%	1/10W	R3422	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3324	1-216-809-11	METAL CHIP	100	5%	1/10W	R3423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3325	1-216-809-11	METAL CHIP	100	5%	1/10W	R3424	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3326	1-216-809-11	METAL CHIP	100	5%	1/10W	R3426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3327	1-216-809-11	METAL CHIP	100	5%	1/10W	R3427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3328	1-216-864-11	SHORT CHIP				R3428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3329	1-216-864-11	SHORT CHIP				R3429	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3330	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3430	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3331	1-216-819-11	METAL CHIP	680	5%	1/10W	R3431	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3333	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3432	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3334	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3433	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3336	1-216-855-11	METAL CHIP	680K	5%	1/10W	R3434	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3351	1-216-809-11	METAL CHIP	100	5%	1/10W	R3441	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3352	1-216-809-11	METAL CHIP	100	5%	1/10W	R3442	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3353	1-216-864-11	SHORT CHIP				R3443	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3354	1-216-864-11	SHORT CHIP				R3444	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3355	1-218-863-11	METAL CHIP	4.7K	0.50%	1/10W	R3445	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3356	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3446	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3357	1-218-854-11	METAL CHIP	2K	0.50%	1/10W	R3457	1-216-813-11	METAL CHIP	220	5%	1/10W
R3358	1-216-809-11	METAL CHIP	100	5%	1/10W	R3466	1-216-813-11	METAL CHIP	220	5%	1/10W
R3359	1-216-809-11	METAL CHIP	100	5%	1/10W	R3468	1-216-864-11	SHORT CHIP			
R3361	1-216-864-11	SHORT CHIP				R3469	1-216-864-11	SHORT CHIP			
R3363	1-218-854-11	METAL CHIP	2K	0.50%	1/10W	R3473	1-216-864-11	SHORT CHIP			
R3364	1-218-829-11	METAL CHIP	180	0.50%	1/10W	R3474	1-216-864-11	SHORT CHIP			
R3365	1-218-829-11	METAL CHIP	180	0.50%	1/10W	R3475	1-216-864-11	SHORT CHIP			
R3366	1-218-829-11	METAL CHIP	180	0.50%	1/10W	R3494	1-216-813-11	METAL CHIP	220	5%	1/10W
R3368	1-218-829-11	METAL CHIP	180	0.50%	1/10W	R3818	1-216-864-11	SHORT CHIP			
R3369	1-216-813-11	METAL CHIP	220	5%	1/10W	R3819	1-216-864-11	SHORT CHIP			
R3370	1-216-851-11	METAL CHIP	330K	5%	1/10W	R3820	1-216-864-11	SHORT CHIP			
R3393	1-216-864-11	SHORT CHIP				R3821	1-218-682-11	METAL CHIP	390	0.50%	1/10W
R3396	1-216-864-11	SHORT CHIP				R3822	1-218-662-11	METAL CHIP	56	0.50%	1/10W
R3402	1-216-864-11	SHORT CHIP				R3823	1-218-662-11	METAL CHIP	56	0.50%	1/10W



A-1087-830-A M 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.

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
C2017	1-126-964-11	ELECT	10µF 20% 50V
C2019	1-126-964-11	ELECT	10µF 20% 50V
C2020	1-126-964-11	ELECT	10µF 20% 50V
C2022	1-126-964-11	ELECT	10µF 20% 50V
C2027	1-126-964-11	ELECT	10µF 20% 50V
C2029	1-126-964-11	ELECT	10µF 20% 50V
C2038	1-216-864-11	SHORT CHIP	
C2039	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2040	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2041	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2042	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2043	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2044	1-164-315-11	CERAMIC CHIP	470pF 5% 50V
C2045	1-126-933-11	ELECT	100µF 20% 16V
C2046	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2050	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2051	1-125-837-91	CERAMIC CHIP	1µF 10% 6.3V
C2053	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2056	1-125-891-11	CERAMIC CHIP	0.47µF 10% 10V
C2058	1-126-963-11	ELECT	4.7µF 20% 50V
C2059	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2060	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2061	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2062	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2064	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
C2065	1-126-933-11	ELECT	100µF 20% 16V
C2066	1-164-156-11	CERAMIC CHIP	0.1µF 25V
C2067	1-109-982-11	CERAMIC CHIP	1µF 10% 10V
C2069	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2071	1-126-963-11	ELECT	4.7µF 20% 50V
C2072	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C2075	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V

REF. NO.	PART NO.	DESCRIPTION	VALUES
R3824	1-218-662-11	METAL CHIP	56 0.50% 1/10W
R3825	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R3827	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R3828	1-218-682-11	METAL CHIP	390 0.50% 1/10W
R3829	1-218-682-11	METAL CHIP	390 0.50% 1/10W
R3830	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R3881	1-216-807-11	METAL CHIP	68 5% 1/10W
R3882	1-216-807-11	METAL CHIP	68 5% 1/10W
R3883	1-216-807-11	METAL CHIP	68 5% 1/10W
R3907	1-216-864-11	SHORT CHIP	
R3972	1-218-849-11	METAL CHIP	1.2K 0.50% 1/10W
R3973	1-218-859-11	METAL CHIP	3.3K 0.50% 1/10W
R3975	1-216-809-11	METAL CHIP	100 5% 1/10W
R3976	1-216-809-11	METAL CHIP	100 5% 1/10W
R3977	1-216-809-11	METAL CHIP	100 5% 1/10W
R3978	1-216-809-11	METAL CHIP	100 5% 1/10W
<u>RESISTOR BRIDGE</u>			
RB3303	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3304	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3305	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3306	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3309	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3310	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3311	1-239-409-11	NETWORK RESISTOR(CHIP)	47
RB3312	1-239-409-11	NETWORK RESISTOR(CHIP)	47
<u>CRYSTAL</u>			
X2801	1-760-895-21	VIBRATOR, CERAMIC	
X3301	1-813-114-21	VIBRATOR, CRYSTAL	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2077	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2208	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2082	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2209	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2085	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2210	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2088	1-216-864-11	SHORT CHIP				C2211	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2089	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2212	1-126-933-11	ELECT	100μF	20% 16V	
C2090	1-216-864-11	SHORT CHIP				C2213	1-126-947-11	ELECT	47μF	20% 35V	
C2091	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2214	1-126-933-11	ELECT	100μF	20% 16V	
C2096	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2215	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2097	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2216	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2098	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2217	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2099	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2218	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2100	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2219	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2102	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2220	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2103	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2221	1-162-917-11	CERAMIC CHIP	15pF	5% 50V	
C2105	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	C2222	1-162-917-11	CERAMIC CHIP	15pF	5% 50V	
C2106	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2223	1-165-908-11	CERAMIC CHIP	1μF	10% 10V	
C2107	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2224	1-115-156-11	CERAMIC CHIP	1μF	10V	
C2108	1-126-933-11	ELECT	100μF	20%	16V	C2225	1-162-917-11	CERAMIC CHIP	15pF	5% 50V	
C2109	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2226	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2110	1-162-919-11	CERAMIC CHIP	22pF	5%	50V	C2227	1-126-933-11	ELECT	100μF	20% 16V	
C2115	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2228	1-162-913-11	CERAMIC CHIP	8pF	0.50pF 50V	
C2116	1-126-933-11	ELECT	100μF	20%	16V	C2229	1-162-913-11	CERAMIC CHIP	8pF	0.50pF 50V	
C2117	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2230	1-162-915-11	CERAMIC CHIP	10pF	0.50pF 50V	
C2119	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C2231	1-125-837-91	CERAMIC CHIP	1μF	10% 6.3V	
C2122	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C2232	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2123	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V	C2233	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2124	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2234	1-126-933-11	ELECT	100μF	20% 16V	
C2125	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2235	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2126	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C2236	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2130	1-126-933-11	ELECT	100μF	20%	16V	C2237	1-162-917-11	CERAMIC CHIP	15pF	5% 50V	
C2131	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2238	1-126-933-11	ELECT	100μF	20% 16V	
C2132	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2239	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2137	1-126-964-11	ELECT	10μF	20%	50V	C2240	1-126-933-11	ELECT	100μF	20% 16V	
C2138	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2241	1-107-826-11	CERAMIC CHIP	0.1μF	10% 16V	
C2139	1-126-964-11	ELECT	10μF	20%	50V	C2242	1-126-934-11	ELECT	220μF	20% 16V	
C2140	1-126-964-11	ELECT	10μF	20%	50V	C2243	1-126-934-11	ELECT	220μF	20% 16V	
C2141	1-126-964-11	ELECT	10μF	20%	50V	C2244	1-107-826-11	CERAMIC CHIP	0.1μF	10% 16V	
C2200	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2245	1-164-156-11	CERAMIC CHIP	0.1μF	25V	
C2201	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2246	1-126-947-11	ELECT	47μF	20% 35V	
C2202	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2247	1-162-975-11	CERAMIC CHIP	24pF	5% 50V	
C2204	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2248	1-162-975-11	CERAMIC CHIP	24pF	5% 50V	
C2205	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2249	1-164-360-11	CERAMIC CHIP	0.1μF	16V	
C2206	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2250	1-164-360-11	CERAMIC CHIP	0.1μF	16V	
C2207	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C2251	1-164-392-11	CERAMIC CHIP	390pF	5% 50V	



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C2300	1-162-968-11	CERAMIC CHIP	0.0047μF 10% 50V	C2515	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2301	1-126-933-11	ELECT	100μF 20% 16V	C2516	1-126-933-11	ELECT	100μF 20% 16V
C2302	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2517	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V
C2305	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2518	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V
C2306	1-162-920-11	CERAMIC CHIP	27pF 5% 50V	C2519	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2307	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	C2520	1-162-960-11	CERAMIC CHIP	220pF 10% 50V
C2308	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2521	1-162-960-11	CERAMIC CHIP	220pF 10% 50V
C2309	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2522	1-126-947-11	ELECT	47μF 20% 35V
C2310	1-162-919-11	CERAMIC CHIP	22pF 5% 50V	C2523	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2311	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2524	1-135-834-91	CERAMIC CHIP	2.2μF 3V
C2313	1-115-156-11	CERAMIC CHIP	1μF 10V	C2525	1-135-834-91	CERAMIC CHIP	2.2μF 3V
C2315	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2527	1-135-834-91	CERAMIC CHIP	2.2μF 3V
C2317	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2528	1-162-962-11	CERAMIC CHIP	470pF 10% 50V
C2318	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2530	1-126-947-11	ELECT	47μF 20% 35V
C2319	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2532	1-135-834-91	CERAMIC CHIP	2.2μF 3V
C2349	1-162-968-11	CERAMIC CHIP	0.0047μF 10% 50V	C2533	1-162-960-11	CERAMIC CHIP	220pF 10% 50V
C2352	1-126-933-11	ELECT	100μF 20% 16V	C2534	1-126-947-11	ELECT	47μF 20% 35V
C2353	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2535	1-162-962-11	CERAMIC CHIP	470pF 10% 50V
C2354	1-162-907-11	CERAMIC CHIP	2pF 0.25pF 50V	C2536	1-135-834-91	CERAMIC CHIP	2.2μF 3V
C2355	1-164-245-11	CERAMIC CHIP	0.015μF 10% 25V	C2538	1-126-947-11	ELECT	47μF 20% 35V
C2358	1-104-655-91	ELECT	470μF 20% 6.3V	C2539	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2359	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2540	1-162-915-11	CERAMIC CHIP	10pF 0.50pF 50V
C2361	1-126-933-11	ELECT	100μF 20% 16V	C2541	1-162-915-11	CERAMIC CHIP	10pF 0.50pF 50V
C2362	1-126-933-11	ELECT	100μF 20% 16V	C2542	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2364	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2543	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2366	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2544	1-126-963-11	ELECT	4.7μF 20% 50V
C2369	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V	C2545	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V
C2370	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2546	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V
C2371	1-162-964-11	CERAMIC CHIP	0.001μF 10% 50V	C2548	1-126-947-11	ELECT	47μF 20% 35V
C2372	1-162-960-11	CERAMIC CHIP	220pF 10% 50V	C2549	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2373	1-135-834-91	CERAMIC CHIP	2.2μF 3V	C2550	1-126-963-11	ELECT	4.7μF 20% 50V
C2374	1-162-960-11	CERAMIC CHIP	220pF 10% 50V	C2551	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2375	1-135-834-91	CERAMIC CHIP	2.2μF 3V	C2553	1-126-947-11	ELECT	47μF 20% 35V
C2376	1-162-963-11	CERAMIC CHIP	680pF 10% 50V	C2554	1-126-947-11	ELECT	47μF 20% 35V
C2500	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V	C2558	1-126-963-11	ELECT	4.7μF 20% 50V
C2501	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V	C2559	1-126-933-11	ELECT	100μF 20% 16V
C2503	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	C2560	1-126-947-11	ELECT	47μF 20% 35V
C2504	1-126-933-11	ELECT	100μF 20% 16V	C2561	1-126-963-11	ELECT	4.7μF 20% 50V
C2506	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2563	1-126-961-11	ELECT	2.2μF 20% 50V
C2508	1-126-933-11	ELECT	100μF 20% 16V	C2564	1-126-961-11	ELECT	2.2μF 20% 50V
C2510	1-162-960-11	CERAMIC CHIP	220pF 10% 50V	C2565	1-125-837-91	CERAMIC CHIP	1μF 10% 6.3V
C2512	1-135-834-91	CERAMIC CHIP	2.2μF 3V	C2566	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C2513	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V	C2569	1-126-961-11	ELECT	2.2μF 20% 50V
C2514	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C2570	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
CHIP CONDUCTOR									
JR6	1-216-864-11	SHORT CHIP				Q2018	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR7	1-216-864-11	SHORT CHIP				Q2019	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR8	1-216-864-11	SHORT CHIP				Q2200	8-729-600-22	TRANSISTOR	2SA1235-F
JR9	1-216-864-11	SHORT CHIP				Q2201	8-729-600-22	TRANSISTOR	2SA1235-F
JR2010	1-216-864-11	SHORT CHIP				Q2202	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR2011	1-216-813-11	METAL CHIP	220	5%	1/10W	Q2203	8-729-600-22	TRANSISTOR	2SA1235-F
JR2012	1-216-864-11	SHORT CHIP				Q2204	8-729-600-22	TRANSISTOR	2SA1235-F
JR2013	1-216-813-11	METAL CHIP	220	5%	1/10W	Q2205	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR2014	1-216-864-11	SHORT CHIP				Q2206	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR2015	1-216-813-11	METAL CHIP	220	5%	1/10W	Q2207	8-729-120-28	TRANSISTOR	2SC1623-L5L6
COIL									
L2002	1-469-555-21	INDUCTOR	10μH			Q2208	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2005	1-469-555-21	INDUCTOR	10μH			Q2209	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2007	1-469-555-21	INDUCTOR	10μH			Q2210	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2009	1-469-555-21	INDUCTOR	10μH			Q2211	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2011	1-469-555-21	INDUCTOR	10μH			Q2212	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2012	1-469-555-21	INDUCTOR	10μH			Q2213	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2013	1-469-555-21	INDUCTOR	10μH			Q2214	8-729-600-22	TRANSISTOR	2SA1235-F
L2200	1-469-555-21	INDUCTOR	10μH			Q2215	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2201	1-469-555-21	INDUCTOR	10μH			Q2216	8-729-600-22	TRANSISTOR	2SA1235-F
L2202	1-469-555-21	INDUCTOR	10μH			Q2302	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2203	1-216-001-00	RES-CHIP	10	5%	1/10W	Q2303	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2204	1-469-555-21	INDUCTOR	10μH			Q2304	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2205	1-216-001-00	RES-CHIP	10	5%	1/10W	Q2312	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2206	1-469-555-21	INDUCTOR	10μH			Q2313	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L2207	1-469-553-21	INDUCTOR	4.7μH			Q2314	8-729-600-22	TRANSISTOR	2SA1235-F
L2501	1-412-537-31	INDUCTOR	100μH			Q2315	8-729-600-22	TRANSISTOR	2SA1235-F
L2502	1-216-295-91	SHORT CHIP				Q2316	8-729-600-22	TRANSISTOR	2SA1235-F
TRANSISTOR									
Q2001	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2322	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2003	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2324	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2004	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2500	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2009	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2501	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2011	8-729-600-22	TRANSISTOR	2SA1235-F			Q2502	8-729-600-22	TRANSISTOR	2SA1235-F
Q2012	8-729-600-22	TRANSISTOR	2SA1235-F			Q2503	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2013	8-729-600-22	TRANSISTOR	2SA1235-F			Q2504	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2015	8-729-600-22	TRANSISTOR	2SA1235-F			Q2505	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2016	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2506	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q2017	8-729-120-28	TRANSISTOR	2SC1623-L5L6			Q2507	8-729-120-28	TRANSISTOR	2SC1623-L5L6
						Q2508	8-729-120-28	TRANSISTOR	2SC1623-L5L6
						Q2509	8-729-120-28	TRANSISTOR	2SC1623-L5L6
						Q2510	8-729-120-28	TRANSISTOR	2SC1623-L5L6
						Q2600	8-729-120-28	TRANSISTOR	2SC1623-L5L6



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
RESISTOR						R2111	1-216-818-11	METAL CHIP	560	5%	1/10W
R2036	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2118	1-216-809-11	METAL CHIP	100	5%	1/10W
R2037	1-216-864-11	SHORT CHIP				R2119	1-216-809-11	METAL CHIP	100	5%	1/10W
R2038	1-216-864-11	SHORT CHIP				R2120	1-216-809-11	METAL CHIP	100	5%	1/10W
R2039	1-216-864-11	SHORT CHIP				R2121	1-216-809-11	METAL CHIP	100	5%	1/10W
R2041	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2123	1-216-815-11	METAL CHIP	330	5%	1/10W
R2042	1-216-864-11	SHORT CHIP				R2124	1-216-815-11	METAL CHIP	330	5%	1/10W
R2043	1-216-864-11	SHORT CHIP				R2125	1-216-815-11	METAL CHIP	330	5%	1/10W
R2044	1-216-864-11	SHORT CHIP				R2126	1-216-809-11	METAL CHIP	100	5%	1/10W
R2047	1-216-864-11	SHORT CHIP				R2127	1-216-864-11	SHORT CHIP			
R2052	1-216-835-11	METAL CHIP	15K	5%	1/10W	R2131	1-216-809-11	METAL CHIP	100	5%	1/10W
R2053	1-216-864-11	SHORT CHIP				R2133	1-216-864-11	SHORT CHIP			
R2055	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2134	1-216-864-11	SHORT CHIP			
R2056	1-216-809-11	METAL CHIP	100	5%	1/10W	R2135	1-216-864-11	SHORT CHIP			
R2057	1-216-809-11	METAL CHIP	100	5%	1/10W	R2136	1-216-864-11	SHORT CHIP			
R2061	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R2137	1-216-864-11	SHORT CHIP			
R2067	1-216-809-11	METAL CHIP	100	5%	1/10W	R2138	1-216-864-11	SHORT CHIP			
R2069	1-216-864-11	SHORT CHIP				R2139	1-216-864-11	SHORT CHIP			
R2072	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2140	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2073	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2141	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2074	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2142	1-218-665-11	METAL CHIP	75	0.50%	1/10W
R2076	1-216-864-11	SHORT CHIP				R2143	1-216-864-11	SHORT CHIP			
R2077	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2081	1-216-809-11	METAL CHIP	100	5%	1/10W	R2202	1-216-809-11	METAL CHIP	100	5%	1/10W
R2082	1-216-809-11	METAL CHIP	100	5%	1/10W	R2203	1-216-809-11	METAL CHIP	100	5%	1/10W
R2083	1-216-851-11	METAL CHIP	330K	5%	1/10W	R2204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2084	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2205	1-216-864-11	SHORT CHIP			
R2085	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2206	1-216-864-11	SHORT CHIP			
R2086	1-216-818-11	METAL CHIP	560	5%	1/10W	R2207	1-216-809-11	METAL CHIP	100	5%	1/10W
R2087	1-216-818-11	METAL CHIP	560	5%	1/10W	R2208	1-216-809-11	METAL CHIP	100	5%	1/10W
R2088	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2209	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2090	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2210	1-216-818-11	METAL CHIP	560	5%	1/10W
R2091	1-216-809-11	METAL CHIP	100	5%	1/10W	R2211	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2092	1-216-818-11	METAL CHIP	560	5%	1/10W	R2212	1-216-818-11	METAL CHIP	560	5%	1/10W
R2093	1-216-818-11	METAL CHIP	560	5%	1/10W	R2213	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2094	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R2214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2095	1-216-864-11	SHORT CHIP				R2215	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2097	1-216-805-11	METAL CHIP	47	5%	1/10W	R2216	1-216-817-11	METAL CHIP	470	5%	1/10W
R2101	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2217	1-216-817-11	METAL CHIP	470	5%	1/10W
R2103	1-216-805-11	METAL CHIP	47	5%	1/10W	R2218	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2105	1-216-809-11	METAL CHIP	100	5%	1/10W	R2219	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R2107	1-216-805-11	METAL CHIP	47	5%	1/10W	R2220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2110	1-216-818-11	METAL CHIP	560	5%	1/10W	R2221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R2222	1-216-833-11	METAL CHIP	10K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2302	1-216-809-11	METAL CHIP	100	5%	1/10W
R2224	1-216-809-11	METAL CHIP	100	5%	1/10W	R2303	1-216-809-11	METAL CHIP	100	5%	1/10W
R2225	1-216-818-11	METAL CHIP	560	5%	1/10W	R2304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2226	1-216-817-11	METAL CHIP	470	5%	1/10W	R2305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2227	1-216-816-11	METAL CHIP	390	5%	1/10W	R2306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2228	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R2307	1-216-809-11	METAL CHIP	100	5%	1/10W
R2229	1-216-849-11	METAL CHIP	220K	5%	1/10W	R2308	1-216-809-11	METAL CHIP	100	5%	1/10W
R2230	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2309	1-216-809-11	METAL CHIP	100	5%	1/10W
R2231	1-216-819-11	METAL CHIP	680	5%	1/10W	R2310	1-216-864-11	SHORT CHIP			
R2232	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2311	1-216-809-11	METAL CHIP	100	5%	1/10W
R2233	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2312	1-216-809-11	METAL CHIP	100	5%	1/10W
R2234	1-216-820-11	METAL CHIP	820	5%	1/10W	R2313	1-216-809-11	METAL CHIP	100	5%	1/10W
R2235	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R2314	1-216-809-11	METAL CHIP	100	5%	1/10W
R2236	1-216-813-11	METAL CHIP	220	5%	1/10W	R2315	1-216-809-11	METAL CHIP	100	5%	1/10W
R2237	1-216-820-11	METAL CHIP	820	5%	1/10W	R2316	1-216-809-11	METAL CHIP	100	5%	1/10W
R2238	1-216-819-11	METAL CHIP	680	5%	1/10W	R2317	1-216-809-11	METAL CHIP	100	5%	1/10W
R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2318	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2240	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2319	1-216-809-11	METAL CHIP	100	5%	1/10W
R2241	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2321	1-216-809-11	METAL CHIP	100	5%	1/10W
R2242	1-218-680-11	METAL CHIP	330	0.50%	1/10W	R2322	1-216-809-11	METAL CHIP	100	5%	1/10W
R2243	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2244	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2324	1-216-809-11	METAL CHIP	100	5%	1/10W
R2245	1-218-684-11	METAL CHIP	470	0.50%	1/10W	R2325	1-216-864-11	SHORT CHIP			
R2246	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2326	1-216-809-11	METAL CHIP	100	5%	1/10W
R2247	1-216-805-11	METAL CHIP	47	5%	1/10W	R2327	1-216-809-11	METAL CHIP	100	5%	1/10W
R2248	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2328	1-216-809-11	METAL CHIP	100	5%	1/10W
R2249	1-216-805-11	METAL CHIP	47	5%	1/10W	R2333	1-216-809-11	METAL CHIP	100	5%	1/10W
R2250	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R2336	1-216-809-11	METAL CHIP	100	5%	1/10W
R2251	1-216-818-11	METAL CHIP	560	5%	1/10W	R2337	1-216-809-11	METAL CHIP	100	5%	1/10W
R2252	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2338	1-216-864-11	SHORT CHIP			
R2253	1-216-809-11	METAL CHIP	100	5%	1/10W	R2339	1-216-809-11	METAL CHIP	100	5%	1/10W
R2254	1-216-817-11	METAL CHIP	470	5%	1/10W	R2340	1-216-809-11	METAL CHIP	100	5%	1/10W
R2255	1-216-817-11	METAL CHIP	470	5%	1/10W	R2341	1-216-809-11	METAL CHIP	100	5%	1/10W
R2256	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2342	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2257	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2343	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2268	1-216-809-11	METAL CHIP	100	5%	1/10W	R2344	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2269	1-216-809-11	METAL CHIP	100	5%	1/10W	R2345	1-216-809-11	METAL CHIP	100	5%	1/10W
R2270	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2346	1-218-734-11	METAL CHIP	56K	0.50%	1/10W
R2271	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2347	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2272	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R2348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2298	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2349	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2299	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2350	1-216-809-11	METAL CHIP	100	5%	1/10W
R2300	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2351	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2301	1-216-809-11	METAL CHIP	100	5%	1/10W	R2352	1-216-833-11	METAL CHIP	10K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2353	1-216-809-11	METAL CHIP	100	5%	1/10W	R2493	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2354	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2494	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2355	1-216-809-11	METAL CHIP	100	5%	1/10W	R2500	1-216-809-11	METAL CHIP	100	5%	1/10W
R2356	1-216-805-11	METAL CHIP	47	5%	1/10W	R2501	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2357	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2502	1-216-864-11	SHORT CHIP			
R2358	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2503	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2359	1-216-805-11	METAL CHIP	47	5%	1/10W	R2506	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2360	1-216-809-11	METAL CHIP	100	5%	1/10W	R2508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2361	1-216-864-11	SHORT CHIP				R2509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2363	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2510	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2364	1-216-809-11	METAL CHIP	100	5%	1/10W	R2511	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2365	1-216-809-11	METAL CHIP	100	5%	1/10W	R2512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2366	1-216-864-11	SHORT CHIP				R2513	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2367	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2368	1-216-809-11	METAL CHIP	100	5%	1/10W	R2515	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2370	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2516	1-216-839-11	METAL CHIP	33K	5%	1/10W
R2371	1-216-809-11	METAL CHIP	100	5%	1/10W	R2517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2372	1-216-809-11	METAL CHIP	100	5%	1/10W	R2518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2375	1-216-837-11	METAL CHIP	22K	5%	1/10W	R2519	1-216-857-11	METAL CHIP	1M	5%	1/10W
R2377	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2520	1-216-864-11	SHORT CHIP			
R2378	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2521	1-216-864-11	SHORT CHIP			
R2379	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2380	1-216-809-11	METAL CHIP	100	5%	1/10W	R2523	1-216-813-11	METAL CHIP	220	5%	1/10W
R2381	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2524	1-216-809-11	METAL CHIP	100	5%	1/10W
R2383	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2525	1-216-813-11	METAL CHIP	220	5%	1/10W
R2387	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2526	1-216-864-11	SHORT CHIP			
R2404	1-216-864-11	SHORT CHIP				R2528	1-216-809-11	METAL CHIP	100	5%	1/10W
R2452	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2529	1-216-809-11	METAL CHIP	100	5%	1/10W
R2453	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2530	1-216-809-11	METAL CHIP	100	5%	1/10W
R2455	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2531	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2459	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2532	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2460	1-216-809-11	METAL CHIP	100	5%	1/10W	R2533	1-216-864-11	SHORT CHIP			
R2469	1-216-809-11	METAL CHIP	100	5%	1/10W	R2534	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2471	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2535	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2480	1-216-845-11	METAL CHIP	100K	5%	1/10W	R2536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2481	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2538	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2539	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2484	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2540	1-216-864-11	SHORT CHIP			
R2485	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R2541	1-216-864-11	SHORT CHIP			
R2486	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2542	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2487	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2543	1-216-864-11	SHORT CHIP			
R2488	1-216-857-11	METAL CHIP	1M	5%	1/10W	R2546	1-216-813-11	METAL CHIP	220	5%	1/10W
R2489	1-216-817-11	METAL CHIP	470	5%	1/10W	R2547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2490	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2548	1-216-841-11	METAL CHIP	47K	5%	1/10W

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

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



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2549	1-216-813-11	METAL CHIP	220	5%	1/10W	CRYSTAL					
R2550	1-216-821-11	METAL CHIP	1K	5%	1/10W	X2001	1-567-505-11	OSCILLATOR, CRYSTAL			
R2551	1-216-821-11	METAL CHIP	1K	5%	1/10W	X2003	1-781-282-11	VIBRATOR, CERAMIC			
R2552	1-216-809-11	METAL CHIP	100	5%	1/10W	X2200	1-767-606-11	VIBRATOR, CRYSTAL			
R2553	1-216-853-11	METAL CHIP	470K	5%	1/10W	X2300	1-795-572-11	VIBRATOR, CRYSTAL			
R2554	1-216-809-11	METAL CHIP	100	5%	1/10W	X2500	1-767-639-21	VIBRATOR, CRYSTAL			
R2555	1-216-853-11	METAL CHIP	470K	5%	1/10W	<div style="border: 1px solid black; padding: 5px; display: inline-block; font-size: 2em; font-weight: bold;">A</div>					
R2556	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2557	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R2558	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2559	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2560	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2561	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2562	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2563	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R2564	1-216-817-11	METAL CHIP	470	5%	1/10W						
R2565	1-216-837-11	METAL CHIP	22K	5%	1/10W	CAPACITOR					
R2566	1-216-837-11	METAL CHIP	22K	5%	1/10W	C501	1-165-529-31	MYLAR	0.22 μ F	10	0V
R2567	1-216-821-11	METAL CHIP	1K	5%	1/10W	\triangle C503	1-165-529-11	MYLAR	0.22 μ F	10	275V
R2568	1-216-837-11	METAL CHIP	22K	5%	1/10W	C505	1-127-794-51	CERAMIC	2200pF	20%	250V
R2569	1-216-821-11	METAL CHIP	1K	5%	1/10W	C508	1-127-794-51	CERAMIC	2200pF	20%	250V
R2570	1-216-837-11	METAL CHIP	22K	5%	1/10W	\triangle C512	1-165-530-21	MYLAR	0.47 μ F	10	0V
R2571	1-216-821-11	METAL CHIP	1K	5%	1/10W	C514	1-126-960-11	ELECT	1 μ F	20%	50V
R2581	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C515	1-126-947-11	ELECT	47 μ F	20%	35V
R2582	1-216-809-11	METAL CHIP	100	5%	1/10W	C528	1-126-933-11	ELECT	100 μ F	20%	16V
R2585	1-216-864-11	SHORT CHIP				C530	1-126-941-11	ELECT	470 μ F	20%	25V
R2593	1-216-864-11	SHORT CHIP				C531	1-130-495-00	MYLAR	0.1 μ F	5%	50V
R2603	1-216-845-11	METAL CHIP	100K	5%	1/10W	C533	1-130-495-00	MYLAR	0.1 μ F	5%	50V
R2604	1-216-845-11	METAL CHIP	100K	5%	1/10W	C536	1-126-933-11	ELECT	100 μ F	20%	16V
R2605	1-216-864-11	SHORT CHIP				C537	1-126-941-11	ELECT	470 μ F	20%	25V
R2607	1-216-821-11	METAL CHIP	1K	5%	1/10W	C540	1-126-767-11	ELECT	1000 μ F	20%	16V
R2608	1-216-833-11	METAL CHIP	10K	5%	1/10W	C542	1-126-941-11	ELECT	470 μ F	20%	25V
R2609	1-216-837-11	METAL CHIP	22K	5%	1/10W	C547	1-126-767-11	ELECT	1000 μ F	20%	16V
R2610	1-216-837-11	METAL CHIP	22K	5%	1/10W	C549	1-126-960-11	ELECT	1 μ F	20%	50V
R2611	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C551	1-126-960-11	ELECT	1 μ F	20%	50V
R2612	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C553	1-126-767-11	ELECT	1000 μ F	20%	16V
R2613	1-216-833-11	METAL CHIP	10K	5%	1/10W	C556	1-126-767-11	ELECT	1000 μ F	20%	16V
R2614	1-216-864-11	SHORT CHIP				C559	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
R2615	1-216-864-11	SHORT CHIP				C563	1-126-947-11	ELECT	47 μ F	20%	35V
R2616	1-216-864-11	SHORT CHIP				C565	1-115-156-11	CERAMIC CHIP	1 μ F		10V
R2617	1-216-809-11	METAL CHIP	100	5%	1/10W	C566	1-162-961-11	CERAMIC CHIP	330pF	10%	50V
R2618	1-216-809-11	METAL CHIP	100	5%	1/10W	C567	1-165-176-11	CERAMIC CHIP	0.047 μ F	10%	16V
R2619	1-216-809-11	METAL CHIP	100	5%	1/10W						
R2620	1-216-809-11	METAL CHIP	100	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C569	1-126-767-11	ELECT	1000μF	20%	16V	C927	1-128-934-91	CERAMIC CHIP	0.33μF	20%	10V
C570	1-130-495-00	MYLAR	0.1μF	5%	50V	C930	1-164-388-91	CERAMIC CHIP	270pF	5%	50V
C571	1-130-495-00	MYLAR	0.1μF	5%	50V	C933	1-130-495-00	MYLAR	0.1μF	5%	50V
C578	1-126-964-11	ELECT	10μF	20%	50V	C939	1-126-933-11	ELECT	100μF	20%	16V
C579	1-126-964-11	ELECT	10μF	20%	50V	C942	1-162-927-11	CERAMIC CHIP	100pF	5%	50V
C580	1-126-964-11	ELECT	10μF	20%	50V	C945	1-126-933-11	ELECT	100μF	20%	16V
C582	1-130-495-00	MYLAR	0.1μF	5%	50V	C946	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C583	1-126-960-11	ELECT	1μF	20%	50V			(KD-34XS955 ONLY)			
C584	1-126-960-11	ELECT	1μF	20%	50V	C6901	1-100-803-11	ELECT(BLOCK)	220μF	20%	250V
C585	1-126-960-11	ELECT	1μF	20%	50V	C6902	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V
C586	1-130-495-00	MYLAR	0.1μF	5%	50V	C6903	1-126-964-11	ELECT	10μF	20%	50V
C587	1-126-960-11	ELECT	1μF	20%	50V	C6904	1-126-961-11	ELECT	2.2μF	20%	50V
C588	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C6905	1-100-803-11	ELECT(BLOCK)	220μF	20%	250V
C589	1-130-495-00	MYLAR	0.1μF	5%	50V	C6906	1-126-967-11	ELECT	47μF	20%	50V
C590	1-126-953-11	ELECT	2200μF	20%	35V	C6907	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C591	1-126-935-11	ELECT	470μF	20%	16V	C6908	1-136-479-11	FILM	0.001μF	5%	100V
C592	1-126-935-11	ELECT	470μF	20%	16V	C6909	1-136-497-81	FILM	0.1μF	5%	50V
C593	1-126-935-11	ELECT	470μF	20%	16V	C6911	1-126-947-11	ELECT	47μF	20%	35V
C594	1-126-935-11	ELECT	470μF	20%	16V	C6914	1-117-219-11	CERAMIC	68pF	5%	1KV
C595	1-104-666-11	ELECT	220μF	20%	25V	C6915	1-117-219-11	CERAMIC	68pF	5%	1KV
C596	1-104-666-11	ELECT	220μF	20%	25V	C6916	1-100-624-11	FILM	4700pF	3%	800V
C597	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C6917	1-126-968-11	ELECT	100μF	20%	50V
C598	1-130-495-00	MYLAR	0.1μF	5%	50V	C6918	1-104-665-11	ELECT	100μF	20%	25V
C599	1-126-953-11	ELECT	2200μF	20%	35V	C6919	1-126-927-11	ELECT	2200μF	20%	10V
C601	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C6920	1-128-547-11	ELECT	6800μF	20%	16V
C604	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C6922	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C606	1-130-495-00	MYLAR	0.1μF	5%	50V	C6923	1-126-933-11	ELECT	100μF	20%	16V
C607	1-130-495-00	MYLAR	0.1μF	5%	50V	C6925	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C608	1-130-495-00	MYLAR	0.1μF	5%	50V	C6926	1-126-935-11	ELECT	470μF	20%	16V
C609	1-126-942-61	ELECT	1000μF	20%	25V	C6929	1-126-933-11	ELECT	100μF	20%	16V
C610	1-126-942-61	ELECT	1000μF	20%	25V	C6930	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C611	1-130-495-00	MYLAR	0.1μF	5%	50V	C6931	1-165-908-11	CERAMIC CHIP	1μF	10%	10V
C612	1-126-953-11	ELECT	2200μF	20%	35V			CONNECTOR			
C613	1-126-953-11	ELECT	2200μF	20%	35V	CN501	1-695-915-11	TAB (CONTACT)			
C900	1-104-666-11	ELECT	220μF	20%	25V	* CN503	1-580-843-11	PIN, CONNECTOR (POWER)			
C903	1-104-666-11	ELECT	220μF	20%	25V	* CN504	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P		
C909	1-126-964-11	ELECT	10μF	20%	50V	* CN505	1-766-241-11	PIN, CONNECTOR (PC BOARD)	3P		
C910	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	* CN506	1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P		
C911	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	* CN507	1-764-812-12	CONNECTOR, BOARD TO BOARD	11P		
C912	1-126-964-11	ELECT	10μF	20%	50V	* CN508	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C915	1-162-959-11	CERAMIC CHIP	330pF	5%	50V	* CN509	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P		
C918	1-162-968-11	CERAMIC CHIP	0.0047μF	10%	50V	CN510	1-793-494-11	CONNECTOR, BOARD TO BOARD	40P		
C921	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V						
C924	1-164-677-11	CERAMIC CHIP	0.033μF	10%	16V						

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

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



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES	
*	CN512	1-818-480-11	PIN, CONNECTOR	12P	D541	8-719-991-33	DIODE	1SS133T-77
*	CN514	1-766-240-11	PIN, CONNECTOR (PC BOARD)	2P	D548	8-719-991-33	DIODE	1SS133T-77
	CN515	1-695-915-11	TAB (CONTACT)		D900	8-719-110-31	DIODE	RD12ESB2
	CN516	1-695-915-11	TAB (CONTACT)		D903	8-719-110-31	DIODE	RD12ESB2
	CN517	1-695-915-11	TAB (CONTACT)		D905	8-719-991-33	DIODE	1SS133T-77
	CN518	1-695-915-11	TAB (CONTACT)					(KD-34XS955 ONLY)
	CN519	1-695-915-11	TAB (CONTACT)		D6901	8-719-083-78	DIODE	10ERA60-TP
	CN520	1-695-915-11	TAB (CONTACT)		D6902	8-719-082-03	DIODE	MM3Z15VT1
*	CN521	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P	D6903	8-719-082-03	DIODE	MM3Z15VT1
*	CN522	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P	D6904	8-719-082-03	DIODE	MM3Z15VT1
					D6905	8-719-082-03	DIODE	MM3Z15VT1
*	CN524	1-564-515-11	PLUG, CONNECTOR	12P	D6907	6-500-567-21	DIODE	10ERB20-TB5
*	CN526	1-564-508-11	PLUG, CONNECTOR	5P	D6908	8-719-063-70	DIODE	D1NL20U
*	CN527	1-564-511-61	PLUG, CONNECTOR	8P	D6909	8-719-022-97	DIODE	D2S4 μ F
*	CN531	1-818-482-11	PIN, CONNECTOR	10P	D6910	8-719-060-89	DIODE	D4SB56-F
*	CN532	1-564-508-11	PLUG, CONNECTOR	5P	D6911	8-719-052-90	DIODE	D1NL40-TA2
*	CN900	1-779-892-11	CONNECTOR, BOARD TO BOARD	10P	D6913	8-719-068-71	DIODE	PTZ-TE25-13A
*	CN903	1-564-506-11	PLUG, CONNECTOR	3P	D6914	8-719-082-03	DIODE	MM3Z15VT1
*	CN6902	1-564-509-11	PLUG, CONNECTOR	6P	D6915	8-719-077-76	DIODE	D2SB60A-F04
					D6916	8-719-052-90	DIODE	D1NL40-TA2
	DIODE				FUSE			
D502	8-719-991-33	DIODE	1SS133T-77	\triangle F501	1-532-506-51	FUSE	6.3A 250V	
D510	8-719-991-33	DIODE	1SS133T-77					
D511	8-719-991-33	DIODE	1SS133T-77					
D512	8-719-991-33	DIODE	1SS133T-77					
D513	8-719-991-33	DIODE	1SS133T-77					
D514	8-719-991-33	DIODE	1SS133T-77					
D515	8-719-991-33	DIODE	1SS133T-77					
D516	8-719-991-33	DIODE	1SS133T-77					
D517	8-719-991-33	DIODE	1SS133T-77					
D519	8-719-991-33	DIODE	1SS133T-77					
D520	8-719-991-33	DIODE	1SS133T-77					
D521	8-719-991-33	DIODE	1SS133T-77					
D522	8-719-991-33	DIODE	1SS133T-77					
D523	8-719-991-33	DIODE	1SS133T-77					
D524	8-719-991-33	DIODE	1SS133T-77					
D525	8-719-991-33	DIODE	1SS133T-77					
D526	8-719-991-33	DIODE	1SS133T-77					
D527	8-719-991-33	DIODE	1SS133T-77					
D530	8-719-924-13	DIODE	MTZJ-T-77-22B					
D531	8-719-924-13	DIODE	MTZJ-T-77-22B					
D534	8-719-991-33	DIODE	1SS133T-77					
D535	8-719-991-33	DIODE	1SS133T-77					
D540	8-719-991-33	DIODE	1SS133T-77					
					FERRITE BEAD			
				FB500	1-412-911-11	FERRITE	0 μ H	
				FB502	1-412-911-11	FERRITE	0 μ H	
				FB6900	1-412-911-11	FERRITE	0 μ H	
					FUSE HOLDER			
				\triangle FH501	1-533-223-11	FUSE HOLDER	0A 0V	
				\triangle FH502	1-533-223-11	FUSE HOLDER	0A 0V	
					IC			
				IC501	6-704-053-01	IC	L4931CZ50-AP	
				IC502	6-705-958-01	IC	PQ15RW21J00H	
				IC504	6-700-898-01	IC	PQ05RD21J00H	
				IC505	8-759-653-07	IC	PQ09RD21J00H	
				IC508	8-759-246-70	IC	TA8216H	
				IC509	8-759-246-70	IC	TA8216H	
				IC900	8-749-016-08	IC	STK390-910	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R590	1-216-813-11	METAL CHIP	220	5%	1/10W
R527	1-216-341-11	METAL OXIDE	0.22	5%	1W	R591	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W	R592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R595	1-216-813-11	METAL CHIP	220	5%	1/10W
R533	1-216-833-11	METAL CHIP	10K	5%	1/10W	R596	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-218-855-11	METAL CHIP	2.2K	0.50%	1/10W	R598	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-218-847-11	METAL CHIP	1K	0.50%	1/10W	R599	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R600	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R537	1-218-851-11	METAL CHIP	1.5K	0.50%	1/10W	R601	1-216-813-11	METAL CHIP	220	5%	1/10W
R539	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W	R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R542	1-216-821-11	METAL CHIP	1K	5%	1/10W	R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R544	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W	R615	1-249-385-11	CARBON	2.2	5%	1/4W
R551	1-216-833-11	METAL CHIP	10K	5%	1/10W	R617	1-249-385-11	CARBON	2.2	5%	1/4W
R552	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R619	1-249-385-11	CARBON	2.2	5%	1/4W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W	R622	1-249-385-11	CARBON	2.2	5%	1/4W
R554	1-216-864-11	SHORT CHIP				R628	1-249-429-11	CARBON	10K	5%	1/4W
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W	R629	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R631	1-249-429-11	CARBON	10K	5%	1/4W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W	R632	1-249-429-11	CARBON	10K	5%	1/4W
R558	1-216-857-11	METAL CHIP	1M	5%	1/10W	R643	1-216-864-11	SHORT CHIP			
R559	1-216-847-11	METAL CHIP	150K	5%	1/10W	R646	1-216-864-11	SHORT CHIP			
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W	R650	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-216-833-11	METAL CHIP	10K	5%	1/10W	R651	1-216-817-11	METAL CHIP	470	5%	1/10W
R563	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-864-11	SHORT CHIP				R653	1-216-809-11	METAL CHIP	100	5%	1/10W
R567	1-216-864-11	SHORT CHIP				R655	1-216-820-11	METAL CHIP	820	5%	1/10W
R568	1-216-864-11	SHORT CHIP				R656	1-216-805-11	METAL CHIP	47	5%	1/10W
R569	1-216-864-11	SHORT CHIP				R657	1-216-864-11	SHORT CHIP			
R570	1-216-833-11	METAL CHIP	10K	5%	1/10W	R660	1-216-805-11	METAL CHIP	47	5%	1/10W
R575	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R661	1-216-864-11	SHORT CHIP			
R576	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R662	1-218-285-11	METAL CHIP	75	5%	1/10W
R577	1-216-821-11	METAL CHIP	1K	5%	1/10W	R663	1-218-285-11	METAL CHIP	75	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R664	1-218-285-11	METAL CHIP	75	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W	R671	1-216-864-11	SHORT CHIP			
R580	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R900	1-216-864-11	SHORT CHIP			
R584	1-216-813-11	METAL CHIP	220	5%	1/10W	R909	1-216-843-11	METAL CHIP	68K	5%	1/10W
R585	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R910	1-216-833-11	METAL CHIP	10K	5%	1/10W
R586	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R911	1-216-833-11	METAL CHIP	10K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W	R912	1-216-385-11	METAL OXIDE	0.47	5%	3W
R588	1-216-833-11	METAL CHIP	10K	5%	1/10W	R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R589	1-216-833-11	METAL CHIP	10K	5%	1/10W	R915	1-215-886-11	METAL OXIDE	100	5%	2W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R918	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6913	1-216-833-11	METAL CHIP	10K	5%	1/10W
R920	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6916	1-216-817-11	METAL CHIP	470	5%	1/10W
R921	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6917	1-216-864-11	SHORT CHIP			
R922	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R6918	1-220-926-81	FUSIBLE	0.47	10%	1/2W
R927	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R6919	1-244-207-11	WIREWOUND	3.3	5%	10W
R930	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6920	1-216-362-21	METAL OXIDE	0.27	5%	2W
R933	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W	R6921	1-216-821-11	METAL CHIP	1K	5%	1/10W
R939	1-216-805-11	METAL CHIP	47	5%	1/10W	R6922	1-249-393-11	CARBON	10	5%	1/4W
R942	1-216-429-00	METAL OXIDE	270	5%	1W	R6923	1-216-821-11	METAL CHIP	1K	5%	1/10W
R945	1-216-805-11	METAL CHIP	47	5%	1/10W	R6924	1-216-864-11	SHORT CHIP			
R948	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6926	1-260-131-11	CARBON	470K	5%	1/2W
R949	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R950	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W	R6928	1-260-131-11	CARBON	470K	5%	1/2W
R951	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6930	1-260-324-11	CARBON	470	5%	1/2W
R954	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6931	1-218-877-11	METAL CHIP	18K	0.50%	1/10W
R961	1-218-716-11 (KD-34XS955 ONLY)	METAL CHIP	10K	0.50%	1/10W	R6932	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W
R962	1-218-716-11 (KD-34XS955 ONLY)	METAL CHIP	10K	0.50%	1/10W	R6933	1-260-322-11	CARBON	330	5%	1/2W
R963	1-218-708-11 (KD-34XS955 ONLY)	METAL CHIP	4.7K	0.50%	1/10W	R6937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R963	1-216-864-11 (KD-30XS955 ONLY)	SHORT CHIP				R6938	1-216-833-11	METAL CHIP	10K	5%	1/10W
R964	1-218-710-11 (KD-34XS955 ONLY)	METAL CHIP	5.6K	0.50%	1/10W	R6939	1-216-833-11	METAL CHIP	10K	5%	1/10W
R965	1-218-692-11 (KD-34XS955 ONLY)	METAL CHIP	1K	0.50%	1/10W	R6940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R966	1-218-724-11 (KD-34XS955 ONLY)	METAL CHIP	22K	0.50%	1/10W	R6941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R967	1-216-833-11 (KD-34XS955 ONLY)	METAL CHIP	10K	5%	1/10W	R6942	1-216-833-11	METAL CHIP	10K	5%	1/10W
R968	1-216-833-11 (KD-34XS955 ONLY)	METAL CHIP	10K	5%	1/10W	R6943	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6902	1-218-869-11	METAL CHIP	8.2K	0.50%	1/10W	R6944	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6903	1-218-837-11	METAL CHIP	390	0.50%	1/10W	R6945	1-216-864-11	SHORT CHIP			
R6904	1-245-478-21	METAL	470K	1%	1/4W	R6946	1-216-864-11	SHORT CHIP			
R6905	1-218-873-11	METAL CHIP	12K	0.50%	1/10W	R6947	1-216-864-11	SHORT CHIP			
R6907	1-245-478-21	METAL	470K	1%	1/4W						
R6908	1-218-823-11	METAL CHIP	100	0.50%	1/10W						
R6909	1-249-417-11	CARBON	1K	5%	1/4W						
R6910	1-249-393-11	CARBON	10	5%	1/4W						
R6911	1-249-393-11	CARBON	10	5%	1/4W						
R6912	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						RELAY					
						\triangle RY501	1-755-389-11	RELAY (AC POWER)			
						TRANSFORMER					
						T6900	1-439-879-11	TRANSFORMER, CONVERTER (PIT)			
						THERMISTOR					
						\triangle TH501	1-803-970-11	THERMISTOR, POSITIVE			
						VARISTOR					
						\triangle VD501	1-804-992-21	VARISTOR			

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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES				
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> D </div>											
A-1088-029-A D BOARD, COMPLETE (KD-34XS955 ONLY)											
A-1088-030-A D BOARD, COMPLETE (KD-30XS955 ONLY)											
	4-382-854-01	SCREW (M3X8), P, SW (+)		C5036	1-126-941-11	ELECT	470µF 20% 25V	C5039	1-164-227-11	CERAMIC CHIP	0.022µF 10% 25V
The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D Board:				C5040	1-126-935-11	ELECT	470µF 20% 16V	C5041	1-126-935-11	ELECT	470µF 20% 16V
\triangle	1-251-715-22	CAP ASSY, HIGH-VOLTAGE		C5044	1-164-360-11	CERAMIC CHIP	0.1µF 16V	C5045	1-164-360-11	CERAMIC CHIP	0.1µF 16V
\triangle	1-900-805-19	WIRE ASSY, FOCUS HV		C5046	1-162-971-11	CERAMIC CHIP	0.001µF 10% 50V	C5047	1-162-971-11	CERAMIC CHIP	0.001µF 10% 50V
\triangle	1-900-808-42	WIRE ASSY, G2		C5048	1-162-953-11	CERAMIC CHIP	100pF 5% 50V	C5049	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
CAPACITOR				C5050	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V	C5051	1-164-360-11	CERAMIC CHIP	0.1µF 16V
C5001	1-162-966-11	CERAMIC CHIP	0.0022µF 10% 50V	C5052	1-126-947-11	ELECT	47µF 20% 35V	C5053	1-106-220-00	MYLAR	0.1µF 10% 100V
C5002	1-106-383-00	MYLAR	0.047µF 10% 200V	C5054	1-104-666-11	ELECT	220µF 20% 25V	C5056	1-162-318-11	CERAMIC	0.001µF 10% 500V
C5003	1-162-967-11	CERAMIC CHIP	0.0033µF 10% 50V	C5058	1-162-116-00	CERAMIC	680pF 10% 2KV	C5059	1-162-116-00	CERAMIC	680pF 10% 2KV
C5004	1-106-383-00	MYLAR	0.047µF 10% 200V	C5060	1-137-417-11	MYLAR	0.015µF 10% 100V	C5061	1-117-833-21	FILM	5100pF 3% 1.5KV
C5005	1-126-235-11	ELECT	100µF 20% 16V	C5064	1-117-665-11	FILM	0.33µF 5% 250V	C5065	1-117-665-11	FILM	0.33µF 5% 250V
C5006	1-126-964-11	ELECT	10µF 20% 50V			(KD-34XS955 ONLY)		C5065	1-117-664-11	FILM	0.27µF 5% 250V
C5007	1-126-941-11	ELECT	470µF 20% 25V			(KD-30XS955 ONLY)		C5066	1-109-921-11	CERAMIC	0.0015µF 10% 500V
C5009	1-126-941-11	ELECT	470µF 20% 25V	C5070	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V	C5071	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C5010	1-164-227-11	CERAMIC CHIP	0.022µF 10% 25V	C5074	1-162-966-11	CERAMIC CHIP	0.0022µF 10% 50V	C5075	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C5011	1-107-641-11	ELECT	220µF 20% 160V	C5076	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V	C5077	1-164-360-11	CERAMIC CHIP	0.1µF 16V
C5012	1-162-968-11	CERAMIC CHIP	0.0047µF 10% 50V	C5078	1-127-715-91	CERAMIC CHIP	0.22µF 10% 16V	C5079	1-162-965-11	CERAMIC CHIP	0.0015µF 10% 50V
C5013	1-162-966-11	CERAMIC CHIP	0.0022µF 10% 50V	C5082	1-117-834-21	FILM	5600pF 3% 1.5KV			(KD-34XS955 ONLY)	
C5014	1-164-227-11	CERAMIC CHIP	0.022µF 10% 25V	C5082	1-117-832-21	FILM	4700pF 3% 1.5KV			(KD-30XS955 ONLY)	
C5016	1-130-783-71	MYLAR	0.33µF 10% 100V	C5084	1-126-941-11	ELECT	470µF 20% 25V	C5086	1-126-941-11	ELECT	470µF 20% 25V
C5017	1-164-677-11	CERAMIC CHIP	0.033µF 10% 16V	C5502	1-126-942-61	ELECT	1000µF 20% 25V	C5504	1-126-947-11	ELECT	47µF 20% 35V
C5018	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V	C5505	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V	C5506	1-162-962-11	CERAMIC CHIP	470pF 10% 50V
C5019	1-126-968-11	ELECT	100µF 20% 50V								
C5020	1-104-665-11	ELECT	100µF 20% 25V								
C5022	1-162-968-11	CERAMIC CHIP	0.0047µF 10% 50V								
C5024	1-102-038-00	CERAMIC	0.001µF 500V								
C5028	1-127-715-91	CERAMIC CHIP	0.22µF 10% 16V								
C5029	1-115-349-51	CERAMIC	0.01µF 2KV								
C5030	1-137-365-11	MYLAR	0.0015µF 5% 50V								
C5031	1-162-965-11	CERAMIC CHIP	0.0015µF 10% 50V								
C5032	1-165-176-11	CERAMIC CHIP	0.047µF 10% 16V								
C5033	1-130-495-00	MYLAR	0.1µF 5% 50V								
C5035	1-104-665-11	ELECT	100µF 20% 25V								




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6525	1-125-969-91	CERAMIC	680pF	10%	1KV
C5512	1-162-974-11	CERAMIC CHIP	0.01μF		50V	C6526	1-125-969-91	CERAMIC	680pF	10%	1KV
C5513	1-162-974-11	CERAMIC CHIP	0.01μF		50V	C6532	1-137-741-22	FILM	39000pF	3%	800V
C5514	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C6546	1-126-974-11	ELECT	3300μF	20%	50V
C5515	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6549	1-126-969-11	ELECT	220μF	20%	50V
C5516	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6550	1-126-968-11	ELECT	100μF	20%	50V
C5517	1-129-716-00	FILM	0.015μF	5%	400V	C6551	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V
C5518	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6552	1-126-937-11	ELECT	4700μF	20%	16V
C5519	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C6554	1-126-937-11	ELECT	4700μF	20%	16V
C5520	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C6555	1-104-665-11	ELECT	100μF	20%	25V
C5521	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6556	1-131-867-51	ELECT	100μF		160V
C5522	1-115-416-11	CERAMIC CHIP	0.001μF	5%	25V	C6557	1-107-654-11	ELECT	33μF	20%	250V
C5523	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6558	1-126-967-11	ELECT	47μF	20%	50V
C5524	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C6559	1-126-942-61	ELECT	1000μF	20%	25V
C5526	1-162-967-11	CERAMIC CHIP	0.0033μF	10%	50V	C6584	1-165-528-31	MYLAR	0.1μF	10	0V
C5527	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6590	1-131-940-11	ELECT	1200μF	20%	250V
C5528	1-129-709-91	FILM	0.0039μF	5%	630V	C6592	1-119-898-51	CERAMIC	470pF	10%	250V
C5529	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C6593	1-126-768-11	ELECT	2200μF	20%	16V
C5530	1-136-167-00	FILM	0.15μF	5%	50V	C6595	1-104-666-11	ELECT	220μF	20%	25V
C5531	1-130-495-00	MYLAR	0.1μF	5%	50V	C6596	1-126-960-11	ELECT	1μF	20%	50V
C5533	1-126-961-11	ELECT	2.2μF	20%	50V	C6597	1-100-120-51	ELECT	1000μF	20%	35V
C5534	1-126-947-11	ELECT	47μF	20%	35V	C8001	1-126-964-11	ELECT	10μF	20%	50V
C5535	1-126-947-11	ELECT	47μF	20%	35V	C8002	1-126-964-11	ELECT	10μF	20%	50V
C5540	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8003	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V
C5548	1-137-194-81	FILM	0.47μF	5%	50V	C8005	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
C5550	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8006	1-126-960-11	ELECT	1μF	20%	50V
C5551	1-126-947-11	ELECT	47μF	20%	35V	C8007	1-162-971-11	CERAMIC CHIP	0.001μF	10%	50V
C5552	1-126-947-11	ELECT	47μF	20%	35V	C8012	1-104-665-11	ELECT	100μF	20%	25V
C5598	1-126-947-11	ELECT	47μF	20%	35V	C8015	1-104-665-11	ELECT	100μF	20%	25V
C5609	1-104-665-11	ELECT	100μF	20%	25V	C8016	1-130-495-00	MYLAR	0.1μF	5%	50V
C5623	1-104-665-11	ELECT	100μF	20%	25V	C8017	1-126-964-11	ELECT	10μF	20%	50V
C6502	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8018	1-126-964-11	ELECT	10μF	20%	50V
C6503	1-131-940-11	ELECT	1200μF	20%	250V	C8020	1-130-495-00	MYLAR	0.1μF	5%	50V
C6507	1-130-495-00	MYLAR	0.1μF	5%	50V	C8021	1-162-974-11	CERAMIC CHIP	0.01μF		50V
C6508	1-126-947-11	ELECT	47μF	20%	35V	C8024	1-126-967-11	ELECT	47μF	20%	50V
C6510	1-130-495-00	MYLAR	0.1μF	5%	50V	C8025	1-126-947-11	ELECT	47μF	20%	35V
C6511	1-162-970-11	CERAMIC CHIP	0.01μF	10%	25V	C8027	1-130-495-00	MYLAR	0.1μF	5%	50V
C6513	1-126-940-11	ELECT	330μF	20%	25V	C8028	1-162-966-11	CERAMIC CHIP	0.0022μF	10%	50V
C6514	1-126-767-11	ELECT	1000μF	20%	16V	C8030	1-164-227-11	CERAMIC CHIP	0.022μF	10%	25V
C6515	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V	C8031	1-104-663-11	ELECT	33μF	20%	25V
C6516	1-162-964-11	CERAMIC CHIP	0.001μF	10%	50V	C8032	1-136-813-11	FILM	680pF	5%	100V
C6517	1-126-963-11	ELECT	4.7μF	20%	50V	C8033	1-126-964-11	ELECT	10μF	20%	50V
C6518	1-136-479-11	FILM	0.001μF	5%	100V	C8035	1-100-614-81	CERAMIC	330pF	5%	1KV
C6519	1-126-964-11	ELECT	10μF	20%	50V	C8036	1-100-614-81	CERAMIC	330pF	5%	1KV




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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
D6532	8-719-948-45	DIODE	ERA22-08	IC			
D6533	8-719-404-50	DIODE	MA111-TX	IC5001	8-759-701-01	IC	NJM2904M
D6534	8-719-404-50	DIODE	MA111-TX	IC5002	8-759-700-07	IC	NJM2903M
D6537	8-719-404-50	DIODE	MA111-TX	IC5003	8-759-701-01	IC	NJM2904M
D6538	8-719-109-85	DIODE	RD5.1ESB2	IC5004	8-759-696-71	IC	STV9379A
D8001	8-719-404-50	DIODE	MA111-TX	IC5005	8-759-803-42	IC	LA6500-FA
D8003	8-719-404-50	DIODE	MA111-TX	IC5006	8-749-013-76	IC	PQ6RD83BJ00H
D8005	8-719-404-50	DIODE	MA111-TX	IC5007	8-759-981-61	IC	LM2901M
D8006	8-719-063-74	DIODE	D1NL20U-TR2	IC5502	8-759-981-61	IC	LM2901M
D8007	8-719-404-50	DIODE	MA111-TX	IC5504	8-759-803-42	IC	LA6500-FA
D8009	8-719-083-83	DIODE	UDZS-TE17-15B	IC5506	8-759-803-42	IC	LA6500-FA
D8010	8-719-979-64	DIODE	UF4005/23	IC5511	8-759-701-01	IC	NJM2904M
D8011	8-719-110-41	DIODE	RD15ESB2	IC5512	8-759-929-65	IC	LM7912CT
D8012	8-719-110-41	DIODE	RD15ESB2	IC5515	8-759-701-01	IC	NJM2904M
D8013	8-719-083-83	DIODE	UDZS-TE17-15B	IC6501	6-705-810-01	IC	MCZ3001DB
D8014	8-719-083-83	DIODE	UDZS-TE17-15B	IC6502	6-700-897-01	IC	PQ12RD21J00H
D8015	8-719-404-50	DIODE	MA111-TX	\triangle IC6503	8-749-017-76	IC	DM-58M
D8016	8-719-948-45	DIODE	ERA22-08	IC6505	8-749-921-86	IC	SE-140N
D8017	8-719-948-45	DIODE	ERA22-08	\triangle IC8001	8-759-700-07	IC	NJM2903M
D8018	8-719-948-45	DIODE	ERA22-08	\triangle IC8002	6-705-810-01	IC	MCZ3001DB
\triangle D8022	8-719-063-74	DIODE	D1NL20U-TR2	\triangle IC8004	8-759-701-01	IC	NJM2904M
D8023	8-719-109-85	DIODE	RD5.1ESB2	\triangle IC8005	6-706-127-01	IC	TL1431ACZ-AP
D8024	8-719-109-85	DIODE	RD5.1ESB2	IC8006	8-759-700-07	IC	NJM2903M
D8026	8-719-404-50	DIODE	MA111-TX	\triangle IC8104	6-706-127-01	IC	TL1431ACZ-AP
D8028	8-719-976-99	DIODE	DTZ5.1B	CHIP CONDUCTOR			
D8030	8-719-056-93	DIODE	UDZ-TE-17-18B	JR5000	1-216-864-11	SHORT CHIP	
D8031	8-719-404-50	DIODE	MA111-TX	JR5001	1-216-864-11	SHORT CHIP	
D8034	8-719-921-63	DIODE	MTZJ-7.5B	JR5002	1-216-864-11	SHORT CHIP	
D8140	8-719-404-50	DIODE	MA111-TX	JR5003	1-216-864-11	SHORT CHIP	
FERRITE BEAD				JR5004	1-216-864-11	SHORT CHIP	
FB5001	1-410-397-21	FERRITE	1.1 μ H	JR5005	1-216-864-11	SHORT CHIP	
FB5002	1-543-298-11	FERRITE	0 μ H	JR5006	1-216-864-11	SHORT CHIP	
FB5003	1-410-397-21	FERRITE	1.1 μ H	JR5007	1-216-864-11	SHORT CHIP	
FB6501	1-410-397-21	FERRITE	1.1 μ H	JR5008	1-216-864-11	SHORT CHIP	
FB6508	1-410-396-41	FERRITE	0.45 μ H	JR5009	1-216-864-11	SHORT CHIP	
FB6509	1-410-396-41	FERRITE	0.45 μ H	JR5010	1-216-864-11	SHORT CHIP	
FB6519	1-410-397-21	FERRITE	1.1 μ H	JR5011	1-216-864-11	SHORT CHIP	
FB6520	1-412-911-11	FERRITE	0 μ H	JR5012	1-216-864-11	SHORT CHIP	
FB6521	1-412-911-11	FERRITE	0 μ H	JR5013	1-216-864-11	SHORT CHIP	
FB8001	1-412-911-11	FERRITE	0 μ H	JR5014	1-216-864-11	SHORT CHIP	
FB8002	1-412-911-11	FERRITE	0 μ H				

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

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



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
Q5028	8-729-038-83	TRANSISTOR	2SK2251-01-F19	RESISTOR			
Q5030	6-550-168-01	TRANSISTOR	2SC5682-RB	R5001	1-216-797-11	METAL CHIP	10 5% 1/10W
Q5031	6-550-188-01	TRANSISTOR	2SK3579-01MR-F119	R5002	1-216-813-11	METAL CHIP	220 5% 1/10W
Q5035	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5003	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q5036	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5004	1-208-832-11	METAL CHIP	120K 0.50% 1/10W
Q5501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5005	1-216-813-11	METAL CHIP	220 5% 1/10W
Q5502	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5007	1-208-832-11	METAL CHIP	120K 0.50% 1/10W
Q5503	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5008	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q5504	8-729-600-22	TRANSISTOR	2SA1235-F	R5009	1-208-832-11	METAL CHIP	120K 0.50% 1/10W
Q5505	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5010	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q5506	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5011	1-208-832-11	METAL CHIP	120K 0.50% 1/10W
Q5507	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122	R5012	1-218-724-11	METAL CHIP	22K 0.50% 1/10W
Q5510	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5013	1-216-373-11	METAL OXIDE	2.2 5% 2W
Q5512	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5014	1-218-700-11	METAL CHIP	2.2K 0.50% 1/10W
Q5513	8-729-120-28	TRANSISTOR	2SC1623-L5L6			(KD-34XS955 ONLY)	
Q5568	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5014	1-218-698-11	METAL CHIP	1.8K 0.50% 1/10W
Q5569	8-729-600-22	TRANSISTOR	2SA1235-F			(KD-30XS955 ONLY)	
Q6506	6-550-882-01	TRANSISTOR	2SK3568(LBS2SONY,Q	R5015	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q6507	6-550-882-01	TRANSISTOR	2SK3568(LBS2SONY,Q	R5016	1-208-834-11	METAL CHIP	150K 0.50% 1/10W
Q6522	8-729-600-22	TRANSISTOR	2SA1235-F	R5017	1-208-836-11	METAL CHIP	180K 0.50% 1/10W
Q6527	8-729-120-28	TRANSISTOR	2SC1623-L5L6			(KD-34XS955 ONLY)	
Q6530	8-729-600-22	TRANSISTOR	2SA1235-F	R5017	1-208-834-11	METAL CHIP	150K 0.50% 1/10W
Q6532	8-729-120-28	TRANSISTOR	2SC1623-L5L6			(KD-30XS955 ONLY)	
Q8003	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5018	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8004	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5019	1-216-833-11	METAL CHIP	10K 5% 1/10W
 Q8007	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5020	1-218-710-11	METAL CHIP	5.6K 0.50% 1/10W
 Q8008	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5023	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8011	8-729-600-22	TRANSISTOR	2SA1235-F	R5024	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8013	6-550-882-01	TRANSISTOR	2SK3568(LBS2SONY,Q	R5025	1-218-710-11	METAL CHIP	5.6K 0.50% 1/10W
Q8014	6-550-882-01	TRANSISTOR	2SK3568(LBS2SONY,Q	R5026	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8015	8-729-119-80	TRANSISTOR	2SC2688-LK	R5027	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8016	8-729-045-65	TRANSISTOR	2SA1776TV2Q	R5028	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8018	8-729-043-95	TRANSISTOR	2SC3840(3)	R5029	1-218-708-11	METAL CHIP	4.7K 0.50% 1/10W
Q8019	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5030	1-216-864-11	SHORT CHIP	
Q8020	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5031	1-218-692-11	METAL CHIP	1K 0.50% 1/10W
Q8021	8-729-600-22	TRANSISTOR	2SA1235-F	R5033	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q8022	8-729-600-22	TRANSISTOR	2SA1235-F	R5035	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
Q8023	8-729-120-28	TRANSISTOR	2SC1623-L5L6			(KD-34XS955 ONLY)	
Q8028	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5035	1-218-720-11	METAL CHIP	15K 0.50% 1/10W
Q8034	8-729-120-28	TRANSISTOR	2SC1623-L5L6			(KD-30XS955 ONLY)	
Q8035	8-729-600-22	TRANSISTOR	2SA1235-F	R5036	1-216-839-11	METAL CHIP	33K 5% 1/10W
				R5037	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
				R5038	1-216-834-11	METAL CHIP	12K 5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5040	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5090	1-216-369-00	METAL OXIDE	1	5%	2W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W	R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5042	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5092	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5043	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R5093	1-218-717-11	METAL CHIP	11K	0.50%	1/10W
R5044	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5095	1-249-377-11	CARBON	0.47	5%	1/4W
R5045	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5096	1-249-377-11	CARBON	0.47	5%	1/4W
R5046	1-214-798-21	METAL	1.8	1%	1/2W	R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5047	1-249-421-11	CARBON	2.2K	5%	1/4W	R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5048	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5101	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5049	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5102	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5050	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5103	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
R5051	1-249-414-11	CARBON	560	5%	1/4W	R5104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5052	1-214-796-00	METAL	1.5	1%	1/2W	R5105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5053	1-215-892-11	METAL OXIDE	1K	5%	2W	R5106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5107	1-249-393-11	CARBON	10	5%	1/4W
R5060	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5108	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R5061	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5109	1-218-728-11	METAL CHIP	33K	0.50%	1/10W
R5062	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5110	1-249-401-11	CARBON	47	5%	1/4W
R5063	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R5111	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R5064	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5112	1-216-813-11	METAL CHIP	220	5%	1/10W
R5065	1-218-749-11	METAL CHIP	240K	0.50%	1/10W	R5113	1-260-107-11	CARBON	4.7K	5%	1/2W
R5066	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R5115	1-249-417-11	CARBON	1K	5%	1/4W
	(KD-34XS955 ONLY)					R5116	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5066	1-218-748-11	METAL CHIP	220K	0.50%	1/10W	R5117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	(KD-30XS955 ONLY)					R5118	1-216-797-11	METAL CHIP	10	5%	1/10W
R5068	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R5120	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5069	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5124	1-216-809-11	METAL CHIP	100	5%	1/10W
R5070	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W	R5125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5071	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W	R5126	1-216-809-11	METAL CHIP	100	5%	1/10W
R5072	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5127	1-215-892-11	METAL OXIDE	1K	5%	2W
R5073	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5128	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R5074	1-260-328-11	CARBON	1K	5%	1/2W	R5129	1-216-809-11	METAL CHIP	100	5%	1/10W
R5076	1-215-900-11	METAL OXIDE	22K	5%	2W	R5130	1-216-797-11	METAL CHIP	10	5%	1/10W
R5077	1-215-900-11	METAL OXIDE	22K	5%	2W	R5131	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5078	1-218-684-11	METAL CHIP	470	0.50%	1/10W		(KD-34XS955 ONLY)				
R5079	1-218-720-11	METAL CHIP	15K	0.50%	1/10W	R5131	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R5080	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		(KD-30XS955 ONLY)				
R5081	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5132	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5082	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5133	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5083	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W	R5135	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5084	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5136	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R5085	1-216-853-11	METAL CHIP	470K	5%	1/10W	R5137	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5086	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5138	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5087	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5139	1-216-821-11	METAL CHIP	1K	5%	1/10W




REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5141	1-215-890-11	METAL OXIDE	470	5%	2W	R5527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5142	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5143	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5529	1-218-702-11	METAL CHIP	2.7K	0.50%	1/10W
R5144	1-216-365-00	METAL OXIDE	0.47	5%	2W	R5530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W	R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5146	1-249-437-11	CARBON	47K	5%	1/4W	R5533	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5147	1-218-702-11	METAL CHIP (KD-34XS955 ONLY)	2.7K	0.50%	1/10W	R5535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5147	1-218-710-11	METAL CHIP (KD-30XS955 ONLY)	5.6K	0.50%	1/10W	R5536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W	R5537	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5150	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5538	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5151	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5539	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5153	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5540	1-214-800-11	METAL	2.2	1%	1/2W
R5154	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R5158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5542	1-216-837-11	METAL CHIP	22K	5%	1/10W
R5160	1-216-809-11	METAL CHIP	100	5%	1/10W	R5543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5163	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R5544	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5164	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5545	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5165	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5546	1-216-864-11	SHORT CHIP			
R5170	1-215-896-00	METAL OXIDE	4.7K	5%	2W	R5547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5171	1-215-896-00	METAL OXIDE	4.7K	5%	2W	R5548	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5172	1-260-288-11	CARBON	0.47	5%	1/2W	R5549	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5173	1-260-288-11	CARBON	0.47	5%	1/2W	R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5176	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5501	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5553	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5502	1-216-864-11	SHORT CHIP				R5554	1-218-732-11	METAL CHIP	47K	0.50%	1/10W
R5503	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5505	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R5556	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5506	1-216-845-11	METAL CHIP	100K	5%	1/10W	R5557	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5507	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5558	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R5508	1-216-837-11	METAL CHIP	22K	5%	1/10W	R5559	1-218-720-11	METAL CHIP	15K	0.50%	1/10W
R5510	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5560	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5561	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R5513	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5562	1-218-734-11	METAL CHIP	56K	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
						R5578	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
						R5579	1-218-732-11	METAL CHIP	47K	0.50%	1/10W


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5580	1-216-837-11	METAL CHIP	22K	5%	1/10W	R6535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5581	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6536	1-249-417-11	CARBON	1K	5%	1/4W
R5582	1-216-821-11	METAL CHIP	1K	5%	1/10W	R6537	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W	R6538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5589	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W	R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R5590	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R6542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5591	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R6544	1-216-864-11	SHORT CHIP			
R5592	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6545	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5593	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R6547	1-216-864-11	SHORT CHIP			
R5594	1-216-833-11	METAL CHIP	10K	5%	1/10W	R6548	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R5597	1-218-750-11	METAL CHIP	270K	0.50%	1/10W	R6556	1-243-979-71	METAL OXIDE	0.1	5%	2W
R5603	1-216-857-11	METAL CHIP	1M	5%	1/10W	R6557	1-243-979-71	METAL OXIDE	0.1	5%	2W
R5604	1-216-857-11	METAL CHIP	1M	5%	1/10W	\triangle R6590	1-249-415-11	CARBON	680	5%	1/4W
R5711	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R6593	1-249-405-11	CARBON	100	5%	1/4W
R5712	1-218-740-11	METAL CHIP	100K	0.50%	1/10W	R6595	1-249-377-11	CARBON	0.47	5%	1/4W
R6501	1-218-662-11	METAL CHIP	56	0.50%	1/10W	R6602	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W	R6605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R6503	1-216-835-11	METAL CHIP	15K	5%	1/10W	R8001	1-216-809-11	METAL CHIP	100	5%	1/10W
R6504	1-260-354-71	CARBON	150K	5%	1/2W	R8003	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6505	1-218-668-11	METAL CHIP	100	0.50%	1/10W	R8004	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R6506	1-260-354-71	CARBON	150K	5%	1/2W	R8005	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8006	1-245-494-31	METAL	2.2M	2%	1/4W
R6508	1-249-393-11	CARBON	10	5%	1/4W	R8007	1-245-494-31	METAL	2.2M	2%	1/4W
R6509	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8010	1-216-864-11	SHORT CHIP			
R6510	1-249-393-11	CARBON	10	5%	1/4W	R8011	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6511	1-260-298-51	CARBON	3.3	5%	1/2W	\triangle R8012	1-249-419-11	CARBON	1.5K	5%	1/4W
R6513	1-245-478-31	METAL	470K	1%	1/4W	R8013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6514	1-245-477-31	METAL	430K	1%	1/4W	\triangle R8014	1-218-692-11	METAL CHIP	1K	0.50%	1/10W
R6515	1-260-131-11	CARBON	470K	5%	1/2W	\triangle R8015	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W
\triangle R6516	1-244-207-11	WIREWOUND	3.3	5%	10W	\triangle R8016	1-247-843-11	CARBON	3.3K	5%	1/4W
R6517	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W	\triangle R8017	1-218-705-11	METAL CHIP	3.6K	0.50%	1/10W
R6518	1-218-719-11	METAL CHIP	13K	0.50%	1/10W	\triangle R8019	1-218-719-11	METAL CHIP	13K	0.50%	1/10W
R6519	1-216-864-11	SHORT CHIP				R8020	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6521	1-260-328-11	CARBON	1K	5%	1/2W	\triangle R8021	1-218-681-11	METAL CHIP	360	0.50%	1/10W
R6524	1-216-813-11	METAL CHIP	220	5%	1/10W		(KD-34XS955 ONLY)				
R6525	1-216-813-11	METAL CHIP	220	5%	1/10W	\triangle R8021	1-216-864-11	SHORT CHIP			
R6526	1-202-933-61	FUSIBLE	0.1	10%	1/2W		(KD-30XS955 ONLY)				
R6527	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8022	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6528	1-216-809-11	METAL CHIP	100	5%	1/10W	R8024	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W	R8025	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R8026	1-218-698-11	METAL CHIP	1.8K	0.50%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W	\triangle R8027	1-218-736-11	METAL CHIP	68K	0.50%	1/10W
R6532	1-216-833-11	METAL CHIP	10K	5%	1/10W	R8028	1-218-710-11	METAL CHIP	5.6K	0.50%	1/10W
R6533	1-216-833-11	METAL CHIP	10K	5%	1/10W	\triangle R8029	1-218-736-11	METAL CHIP	68K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
	R8030	1-218-740-11 METAL CHIP	100K	0.50%	1/10W	R8062	1-216-833-11 METAL CHIP	10K	5%	1/10W	
	R8031	1-218-740-11 METAL CHIP	100K	0.50%	1/10W	R8063	1-216-833-11 METAL CHIP	10K	5%	1/10W	
	R8032	1-216-844-11 METAL CHIP	82K	5%	1/10W		R8066	1-216-821-11 METAL CHIP	1K	5%	1/10W
	R8033	1-216-833-11 METAL CHIP	10K	5%	1/10W	R8069	1-249-421-11 CARBON	2.2K	5%	1/4W	
	R8035	1-218-706-11 METAL CHIP	3.9K	0.50%	1/10W	R8070	1-243-979-71 METAL OXIDE	0.1	5%	2W	
	R8036	1-215-415-00 METAL (KD-34XS955 ONLY)	560	1%	1/4W		R8072	1-249-377-11 CARBON	0.47	5%	1/4W
	R8036	1-215-419-00 METAL (KD-30XS955 ONLY)	820	1%	1/4W	R8076	1-249-409-11 CARBON	220	5%	1/4W	
	R8037	1-215-445-00 METAL (KD-34XS955 ONLY)	10K	1%	1/4W	R8077	1-216-864-11 SHORT CHIP				
	R8037	1-215-447-00 METAL (KD-30XS955 ONLY)	12K	1%	1/4W		R8078	1-218-740-11 METAL CHIP	100K	0.50%	1/10W
	R8038	1-215-445-00 METAL (KD-34XS955 ONLY)	10K	1%	1/4W		R8079	1-249-431-11 CARBON	15K	5%	1/4W
	R8038	1-215-447-00 METAL (KD-30XS955 ONLY)	12K	1%	1/4W	R8080	1-249-401-11 CARBON	47	5%	1/4W	
	R8039	1-215-445-00 METAL (KD-34XS955 ONLY)	10K	1%	1/4W		R8082	1-216-863-11 METAL CHIP	3.3M	5%	1/10W
	R8039	1-215-447-00 METAL (KD-30XS955 ONLY)	12K	1%	1/4W	R8085	1-219-748-11 METAL	4.7K	5%	1/2W	
	R8040	1-215-445-00 METAL (KD-34XS955 ONLY)	10K	1%	1/4W	R8086	1-219-749-91 METAL	10K	5%	1/2W	
	R8040	1-215-443-00 METAL (KD-30XS955 ONLY)	8.2K	1%	1/4W	R8087	1-216-864-11 SHORT CHIP				
	R8041	1-216-864-11 SHORT CHIP				R8088	1-216-833-11 METAL CHIP	10K	5%	1/10W	
	R8043	1-215-447-00 METAL	12K	1%	1/4W	R8089	1-216-841-11 METAL CHIP	47K	5%	1/10W	
	R8046	1-218-696-11 METAL CHIP	1.5K	0.50%	1/10W	R8090	1-216-833-11 METAL CHIP	10K	5%	1/10W	
	R8049	1-218-668-11 METAL CHIP	100	0.50%	1/10W	R8093	1-208-834-11 METAL CHIP	150K	0.50%	1/10W	
	R8050	1-218-656-11 METAL CHIP	33	0.50%	1/10W	R8096	1-216-864-11 SHORT CHIP				
	R8051	1-202-933-61 FUSIBLE	0.1	10%	1/2W	R8097	1-216-797-11 METAL CHIP	10	5%	1/10W	
	R8052	1-218-738-11 METAL CHIP (KD-34XS955 ONLY)	82K	0.50%	1/10W	R8101	1-208-834-11 METAL CHIP	150K	0.50%	1/10W	
	R8052	1-218-745-11 METAL CHIP (KD-30XS955 ONLY)	160K	0.50%	1/10W	R8102	1-249-433-11 CARBON	22K	5%	1/4W	
	R8053	1-245-478-31 METAL	470K	1%	1/4W	R8103	1-218-867-11 METAL CHIP	6.8K	0.50%	1/10W	
	R8054	1-245-478-31 METAL	470K	1%	1/4W	R8104	1-216-841-11 METAL CHIP	47K	5%	1/10W	
	R8056	1-218-714-11 METAL CHIP	8.2K	0.50%	1/10W	R8105	1-216-809-11 METAL CHIP	100	5%	1/10W	
	R8057	1-218-719-11 METAL CHIP	13K	0.50%	1/10W	R8106	1-249-377-11 CARBON	0.47	5%	1/4W	
	R8058	1-249-393-11 CARBON	10	5%	1/4W	R8108	1-216-845-11 METAL CHIP	100K	5%	1/10W	
	R8059	1-216-813-11 METAL CHIP	220	5%	1/10W	R8109	1-215-917-11 METAL OXIDE (KD-34XS955 ONLY)	1K	5%	3W	
	R8060	1-216-813-11 METAL CHIP	220	5%	1/10W	R8109	1-215-918-00 METAL OXIDE (KD-30XS955 ONLY)	1.5K	5%	3W	
	R8061	1-249-393-11 CARBON	10	5%	1/4W	R8110	1-208-842-11 METAL CHIP	330K	0.50%	1/10W	
						R8111	1-215-917-11 METAL OXIDE (KD-34XS955 ONLY)	1K	5%	3W	
						R8111	1-215-918-00 METAL OXIDE (KD-30XS955 ONLY)	1.5K	5%	3W	
						R8112	1-216-845-11 METAL CHIP	100K	5%	1/10W	
						R8113	1-208-842-11 METAL CHIP	330K	0.50%	1/10W	
						R8114	1-215-917-11 METAL OXIDE (KD-34XS955 ONLY)	1K	5%	3W	
						R8114	1-215-918-00 METAL OXIDE (KD-30XS955 ONLY)	1.5K	5%	3W	
						R8115	1-216-821-11 METAL CHIP	1K	5%	1/10W	

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R8116	1-215-917-11	METAL OXIDE (KD-34XS955 ONLY)	1K	5%	3W	TRANSFORMER					
R8116	1-215-918-00	METAL OXIDE (KD-30XS955 ONLY)	1.5K	5%	3W	T5001	1-437-523-61	HORIZONTAL OUTPUT TRANSFORMER			
R8117	1-216-845-11	METAL CHIP	100K	5%	1/10W	T5002	1-435-636-21	TRANSFORMER, HORIZONTAL DRIVE			
R8118	1-216-839-11	METAL CHIP	33K	5%	1/10W	T6502	1-437-696-31	TRANSFORMER, CONVERTER			
R8119	1-215-917-11	METAL OXIDE (KD-34XS955 ONLY)	1K	5%	3W	\triangle T8001	1-453-464-11	FBT ASSY, NX-6200//X4J4			
R8119	1-215-918-00	METAL OXIDE (KD-30XS955 ONLY)	1.5K	5%	3W	T8004	1-439-991-11	DYNAMIC FOCUS TRANSFORMER(DFT)			
R8123	1-216-809-11	METAL CHIP	100	5%	1/10W	THERMISTOR					
R8124	1-216-833-11	METAL CHIP	10K	5%	1/10W	TH5002	1-807-796-11	THERMISTOR			
R8125	1-216-797-11	METAL CHIP	10	5%	1/10W	HB					
R8126	1-216-797-11	METAL CHIP	10	5%	1/10W	A-1111-236-A HB (VAR) BOARD, MOUNTED					
R8135	1-216-833-11	METAL CHIP	10K	5%	1/10W	CAPACITOR					
R8136	1-216-833-11	METAL CHIP	10K	5%	1/10W	C1100	1-126-960-11	ELECT	1 μ F	20%	50V
R8137	1-216-821-11	METAL CHIP	1K	5%	1/10W	C1101	1-126-960-11	ELECT	1 μ F	20%	50V
R8138	1-216-857-11	METAL CHIP	1M	5%	1/10W	CONNECTOR					
R8144	1-216-849-11	METAL CHIP	220K	5%	1/10W	* CN1100	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P		
R8145	1-216-841-11	METAL CHIP	47K	5%	1/10W	DIODE					
R8146	1-216-821-11	METAL CHIP	1K	5%	1/10W	D1100	8-719-977-28	DIODE	DTZ10B		
R8150	1-216-841-11	METAL CHIP	47K	5%	1/10W	D1101	8-719-977-28	DIODE	DTZ10B		
R8151	1-216-841-11	METAL CHIP	47K	5%	1/10W	D1103	8-719-977-28	DIODE	DTZ10B		
R8158	1-216-809-11	METAL CHIP	100	5%	1/10W	FILTER					
R8159	1-216-835-11	METAL CHIP	15K	5%	1/10W	FL1103	1-409-755-11	FERRITE	0 μ H		
R8160	1-216-853-11	METAL CHIP	470K	5%	1/10W	FL1104	1-409-755-11	FERRITE	0 μ H		
R8161	1-216-833-11	METAL CHIP	10K	5%	1/10W	JACK					
\triangle R8165	1-218-742-11	METAL CHIP	120K	0.50%	1/10W	J1100	1-770-053-12	TERMINAL BLOCK, S(LIGHT ANGLE)			
R8200	1-216-833-11	METAL CHIP	10K	5%	1/10W	CHIP CONDUCTOR					
R8202	1-216-833-11	METAL CHIP	10K	5%	1/10W	JR1100	1-216-864-11	SHORT CHIP			
R8203	1-216-833-11	METAL CHIP	10K	5%	1/10W	JR1101	1-216-864-11	SHORT CHIP			
R8204	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	JR1102	1-216-864-11	SHORT CHIP			
R8206	1-216-817-11	METAL CHIP	470	5%	1/10W	JR1103	1-216-864-11	SHORT CHIP			
RELAY											
\triangle RY6501	1-755-395-11	RELAY (AC POWER)									
\triangle RY6502	1-755-389-11	RELAY (AC POWER)									
SPARK GAP											
SG8002	1-517-499-21	GAP, SPARK									



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
IC5811	8-759-822-38	IC	LA6510	R5821	1-218-726-11	METAL CHIP	27K 0.50% 1/10W
IC5812	8-759-822-38	IC	LA6510			(KD-34XS955 ONLY)	
IC5813	8-759-394-35	IC	BA12T	R5821	1-218-728-11	METAL CHIP	33K 0.50% 1/10W
IC5814	8-759-929-65	IC	LM7912CT			(KD-30XS955 ONLY)	
IC5900	8-759-701-01	IC	NJM2904M	R5822	1-249-383-11	CARBON	1.5 5% 1/4W
<u>TRANSISTOR</u>				R5823	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5801	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5824	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5802	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5825	1-249-383-11	CARBON	1.5 5% 1/4W
Q5803	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5827	1-215-859-00	METAL OXIDE	22 5% 1W
Q5806	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R5828	1-249-441-11	CARBON	100K 5% 1/4W
Q5807	8-729-600-22	TRANSISTOR	2SA1235-F	R5829	1-215-859-00	METAL OXIDE	22 5% 1W
<u>RESISTOR</u>				R5830	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
R5801	1-216-853-11	METAL CHIP	470K 5% 1/10W	R5831	1-218-730-11	METAL CHIP	39K 0.50% 1/10W
R5802	1-216-851-11	METAL CHIP	330K 5% 1/10W			(KD-34XS955 ONLY)	
R5803	1-216-841-11	METAL CHIP	47K 5% 1/10W	R5831	1-218-726-11	METAL CHIP	27K 0.50% 1/10W
R5804	1-216-841-11	METAL CHIP	47K 5% 1/10W			(KD-30XS955 ONLY)	
R5805	1-218-776-11	METAL CHIP	1M 0.50% 1/10W	R5832	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
	(KD-34XS955 ONLY)					(KD-34XS955 ONLY)	
R5805	1-218-772-11	METAL CHIP	680K 0.50% 1/10W	R5832	1-218-713-11	METAL CHIP	7.5K 0.50% 1/10W
	(KD-30XS955 ONLY)					(KD-30XS955 ONLY)	
R5807	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5833	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
R5808	1-218-716-11	METAL CHIP	10K 0.50% 1/10W	R5834	1-218-720-11	METAL CHIP	15K 0.50% 1/10W
R5809	1-216-821-11	METAL CHIP	1K 5% 1/10W			(KD-34XS955 ONLY)	
R5810	1-218-716-11	METAL CHIP	10K 0.50% 1/10W	R5834	1-218-715-11	METAL CHIP	9.1K 0.50% 1/10W
R5811	1-218-727-11	METAL CHIP	30K 0.50% 1/10W			(KD-30XS955 ONLY)	
	(KD-34XS955 ONLY)			R5835	1-218-714-11	METAL CHIP	8.2K 0.50% 1/10W
R5811	1-218-726-11	METAL CHIP	27K 0.50% 1/10W			(KD-34XS955 ONLY)	
	(KD-30XS955 ONLY)			R5835	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
R5812	1-216-793-11	METAL CHIP	4.7 5% 1/10W			(KD-30XS955 ONLY)	
R5813	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5836	1-218-694-11	METAL CHIP	1.2K 0.50% 1/10W
R5814	1-216-793-11	METAL CHIP	4.7 5% 1/10W	R5837	1-218-734-11	METAL CHIP	56K 0.50% 1/10W
R5815	1-216-833-11	METAL CHIP	10K 5% 1/10W			(KD-34XS955 ONLY)	
R5817	1-218-726-11	METAL CHIP	27K 0.50% 1/10W	R5837	1-218-716-11	METAL CHIP	10K 0.50% 1/10W
R5818	1-218-716-11	METAL CHIP	10K 0.50% 1/10W			(KD-30XS955 ONLY)	
	(KD-34XS955 ONLY)			R5838	1-218-732-11	METAL CHIP	47K 0.50% 1/10W
R5818	1-218-714-11	METAL CHIP	8.2K 0.50% 1/10W			(KD-34XS955 ONLY)	
	(KD-30XS955 ONLY)			R5838	1-218-734-11	METAL CHIP	56K 0.50% 1/10W
R5819	1-218-686-11	METAL CHIP	560 0.50% 1/10W			(KD-30XS955 ONLY)	
	(KD-34XS955 ONLY)			R5839	1-218-732-11	METAL CHIP	47K 0.50% 1/10W
R5819	1-218-684-11	METAL CHIP	470 0.50% 1/10W			(KD-34XS955 ONLY)	
	(KD-30XS955 ONLY)			R5840	1-218-709-11	METAL CHIP	5.1K 0.50% 1/10W
						(KD-34XS955 ONLY)	
				R5840	1-218-712-11	METAL CHIP	6.8K 0.50% 1/10W
						(KD-30XS955 ONLY)	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5841	1-249-441-11	CARBON	100K	5%	1/4W	R5858	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5842	1-215-859-00	METAL OXIDE	22	5%	1W			(KD-30XS955 ONLY)			
R5843	1-249-441-11	CARBON	100K	5%	1/4W	R5859	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R5844	1-218-728-11	METAL CHIP	33K	0.50%	1/10W			(KD-34XS955 ONLY)			
		(KD-34XS955 ONLY)				R5859	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
								(KD-30XS955 ONLY)			
R5844	1-218-730-11	METAL CHIP	39K	0.50%	1/10W	R5860	1-249-441-11	CARBON	100K	5%	1/4W
		(KD-30XS955 ONLY)				R5861	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
R5845	1-215-859-00	METAL OXIDE	22	5%	1W			(KD-34XS955 ONLY)			
R5846	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R5861	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W
R5847	1-218-734-11	METAL CHIP	56K	0.50%	1/10W			(KD-30XS955 ONLY)			
		(KD-34XS955 ONLY)				R5862	1-218-714-11	METAL CHIP	8.2K	0.50%	1/10W
R5847	1-218-732-11	METAL CHIP	47K	0.50%	1/10W			(KD-34XS955 ONLY)			
		(KD-30XS955 ONLY)				R5862	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W
R5848	1-218-722-11	METAL CHIP	18K	0.50%	1/10W			(KD-30XS955 ONLY)			
		(KD-34XS955 ONLY)				R5863	1-218-722-11	METAL CHIP	18K	0.50%	1/10W
R5848	1-218-719-11	METAL CHIP	13K	0.50%	1/10W			(KD-34XS955 ONLY)			
		(KD-30XS955 ONLY)				R5863	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5849	1-249-383-11	CARBON	1.5	5%	1/4W			(KD-30XS955 ONLY)			
R5851	1-218-726-11	METAL CHIP	27K	0.50%	1/10W	R5864	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5852	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R5865	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
		(KD-34XS955 ONLY)						(KD-34XS955 ONLY)			
R5852	1-218-719-11	METAL CHIP	13K	0.50%	1/10W	R5865	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
		(KD-30XS955 ONLY)						(KD-30XS955 ONLY)			
R5853	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5866	1-249-383-11	CARBON	1.5	5%	1/4W
		(KD-34XS955 ONLY)				R5867	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5853	1-218-732-11	METAL CHIP	47K	0.50%	1/10W	R5868	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
		(KD-30XS955 ONLY)						(KD-34XS955 ONLY)			
R5854	1-218-726-11	METAL CHIP	27K	0.50%	1/10W	R5868	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
		(KD-34XS955 ONLY)						(KD-30XS955 ONLY)			
R5854	1-218-728-11	METAL CHIP	33K	0.50%	1/10W	R5869	1-249-383-11	CARBON	1.5	5%	1/4W
		(KD-30XS955 ONLY)				R5871	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5855	1-218-734-11	METAL CHIP	56K	0.50%	1/10W	R5872	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
		(KD-34XS955 ONLY)									
R5855	1-218-738-11	METAL CHIP	82K	0.50%	1/10W	R5873	1-218-706-11	METAL CHIP	3.9K	0.50%	1/10W
		(KD-30XS955 ONLY)						(KD-34XS955 ONLY)			
R5856	1-218-722-11	METAL CHIP	18K	0.50%	1/10W	R5873	1-218-708-11	METAL CHIP	4.7K	0.50%	1/10W
		(KD-34XS955 ONLY)						(KD-30XS955 ONLY)			
R5856	1-218-730-11	METAL CHIP	39K	0.50%	1/10W	R5874	1-249-441-11	CARBON	100K	5%	1/4W
		(KD-30XS955 ONLY)				R5875	1-215-859-00	METAL OXIDE	22	5%	1W
R5857	1-218-722-11	METAL CHIP	18K	0.50%	1/10W			(KD-34XS955 ONLY)			
		(KD-34XS955 ONLY)				R5875	1-215-861-00	METAL OXIDE	47	5%	1W
R5857	1-218-730-11	METAL CHIP	39K	0.50%	1/10W			(KD-30XS955 ONLY)			
		(KD-30XS955 ONLY)				R5876	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R5858	1-218-722-11	METAL CHIP	18K	0.50%	1/10W						
		(KD-34XS955 ONLY)									



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5877	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R5907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5879	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R5908	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5880	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R5909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5883	1-218-722-11 (KD-34XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W	R5912	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5883	1-218-719-11 (KD-30XS955 ONLY)	METAL CHIP	13K	0.50%	1/10W	R5913	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5884	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R5914	1-218-730-11	METAL CHIP	39K	0.50%	1/10W
R5885	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5915	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5886	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5916	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R5887	1-218-706-11 (KD-34XS955 ONLY)	METAL CHIP	3.9K	0.50%	1/10W	R5918	1-218-726-11 (KD-34XS955 ONLY)	METAL CHIP	27K	0.50%	1/10W
R5887	1-218-708-11 (KD-30XS955 ONLY)	METAL CHIP	4.7K	0.50%	1/10W	R5918	1-218-722-11 (KD-30XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W
R5889	1-249-383-11	CARBON	1.5	5%	1/4W	R5919	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5890	1-218-724-11	METAL CHIP	22K	0.50%	1/10W	R5920	1-216-864-11	SHORT CHIP			
R5892	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5921	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5893	1-216-833-11	METAL CHIP	10K	5%	1/10W	R5922	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5895	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5923	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5896	1-218-722-11 (KD-34XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W	R5924	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R5896	1-218-719-11 (KD-30XS955 ONLY)	METAL CHIP	13K	0.50%	1/10W	R5925	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5897	1-218-716-11	METAL CHIP	10K	0.50%	1/10W	R5926	1-216-864-11	SHORT CHIP			
R5898	1-218-720-11 (KD-34XS955 ONLY)	METAL CHIP	15K	0.50%	1/10W	R5928	1-216-809-11	METAL CHIP	100	5%	1/10W
R5898	1-218-722-11 (KD-30XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W	R5930	1-216-864-11	SHORT CHIP			
R5899	1-216-793-11	METAL CHIP	4.7	5%	1/10W						
R5901	1-218-720-11 (KD-34XS955 ONLY)	METAL CHIP	15K	0.50%	1/10W						
R5901	1-218-722-11 (KD-30XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W						
R5902	1-218-720-11 (KD-34XS955 ONLY)	METAL CHIP	15K	0.50%	1/10W						
R5902	1-218-722-11 (KD-30XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W						
R5903	1-218-720-11 (KD-34XS955 ONLY)	METAL CHIP	15K	0.50%	1/10W						
R5903	1-218-722-11 (KD-30XS955 ONLY)	METAL CHIP	18K	0.50%	1/10W						
R5904	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R5905	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R5906	1-216-841-11	METAL CHIP	47K	5%	1/10W						



* **A-1302-939-A P BOARD, COMPLETE**
7-685-872-09 SCREW +BVTT 3X8 (S)

The P and PA Boards are interchangeable.
Either board can be used as a replacement.

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.

CAPACITOR

C9507	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C9508	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9509	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9510	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C9511	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9513	1-162-966-11	CERAMIC CHIP	0.0022µF	10%	50V
C9514	1-126-394-11	ELECT CHIP	10µF	20%	16V
C9515	1-126-394-11	ELECT CHIP	10µF	20%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
						C1541	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
						C1542	1-126-960-11	ELECT	1μF	20%	50V
						C1543	1-126-960-11	ELECT	1μF	20%	50V
						C1544	1-126-933-11	ELECT	100μF	20%	16V
*	A-1303-037-A	UZ BOARD, COMPLETE				C1545	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C1548	1-107-826-11	CERAMIC CHIP	0.1μF	10%	16V
						C1550	1-126-960-11	ELECT	1μF	20%	50V
						C1551	1-126-960-11	ELECT	1μF	20%	50V
						C1552	1-126-960-11	ELECT	1μF	20%	50V
						C1553	1-126-960-11	ELECT	1μF	20%	50V
						C1556	1-126-933-11	ELECT	100μF	20%	16V
						C1557	1-164-156-11	CERAMIC CHIP	0.1μF		25V
						C1558	1-126-933-11	ELECT	100μF	20%	16V
						C1559	1-126-933-11	ELECT	100μF	20%	16V
						C1560	1-126-933-11	ELECT	100μF	20%	16V
						C1561	1-126-933-11	ELECT	100μF	20%	16V
						C1562	1-126-933-11	ELECT	100μF	20%	16V
						C1563	1-126-933-11	ELECT	100μF	20%	16V
						CONNECTOR					
						*	CN1501	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE) 11P		
							CN1502	1-793-173-11	PIN, PC CONNECTOR(PC BOARD) 50P		
							CN1503	1-793-419-11	CONNECTOR, BOARD TO BOARD 4P		
						DIODE					
						D1501	8-719-977-28	DIODE	DTZ10B		
						D1502	8-719-977-28	DIODE	DTZ10B		
						D1503	8-719-977-28	DIODE	DTZ10B		
						D1504	8-719-977-28	DIODE	DTZ10B		
						D1505	8-719-977-28	DIODE	DTZ10B		
						D1506	8-719-977-28	DIODE	DTZ10B		
						D1507	8-719-977-28	DIODE	DTZ10B		
						D1508	8-719-977-28	DIODE	DTZ10B		
						D1509	8-719-977-28	DIODE	DTZ10B		
						D1510	8-719-977-28	DIODE	DTZ10B		
						D1511	8-719-977-28	DIODE	DTZ10B		
						D1512	8-719-977-28	DIODE	DTZ10B		
						D1513	8-719-977-28	DIODE	DTZ10B		
						D1514	8-719-977-28	DIODE	DTZ10B		
						D1515	8-719-977-28	DIODE	DTZ10B		
						D1516	8-719-977-28	DIODE	DTZ10B		
						D1517	8-719-977-28	DIODE	DTZ10B		



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1530	1-216-809-11	METAL CHIP	100	5%	1/10W	R1577	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1531	1-216-809-11	METAL CHIP	100	5%	1/10W	R1578	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1532	1-216-809-11	METAL CHIP	100	5%	1/10W	R1579	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1533	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R1580	1-216-809-11	METAL CHIP	100	5%	1/10W
R1534	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1581	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1535	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1582	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1536	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1583	1-216-809-11	METAL CHIP	100	5%	1/10W
R1537	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1538	1-216-806-11	METAL CHIP	56	5%	1/10W	R1585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1539	1-216-805-11	METAL CHIP	47	5%	1/10W	R1586	1-216-813-11	METAL CHIP	220	5%	1/10W
R1540	1-216-809-11	METAL CHIP	100	5%	1/10W	R1587	1-216-809-11	METAL CHIP	100	5%	1/10W
R1541	1-216-809-11	METAL CHIP	100	5%	1/10W	R1588	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1542	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1589	1-216-813-11	METAL CHIP	220	5%	1/10W
R1543	1-216-809-11	METAL CHIP	100	5%	1/10W	R1590	1-216-809-11	METAL CHIP	100	5%	1/10W
R1544	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1591	1-216-813-11	METAL CHIP	220	5%	1/10W
R1545	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1592	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1546	1-216-809-11	METAL CHIP	100	5%	1/10W	R1593	1-216-809-11	METAL CHIP	100	5%	1/10W
R1547	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1594	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1548	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1595	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1549	1-216-809-11	METAL CHIP	100	5%	1/10W	R1596	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1550	1-216-809-11	METAL CHIP	100	5%	1/10W	R1597	1-216-809-11	METAL CHIP	100	5%	1/10W
R1551	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1598	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1552	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1600	1-216-809-11	METAL CHIP	100	5%	1/10W
R1554	1-216-809-11	METAL CHIP	100	5%	1/10W	R1604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1555	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1607	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1556	1-216-853-11	METAL CHIP	470K	5%	1/10W	R1608	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1557	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1558	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1559	1-218-665-11	METAL CHIP	75	0.50%	1/10W	R1612	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1560	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1562	1-216-809-11	METAL CHIP	100	5%	1/10W	R1615	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1563	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1565	1-216-809-11	METAL CHIP	100	5%	1/10W	R1617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1566	1-216-809-11	METAL CHIP	100	5%	1/10W	R1618	1-216-864-11	SHORT CHIP			
R1567	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1619	1-216-809-11	METAL CHIP	100	5%	1/10W
R1568	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1620	1-216-809-11	METAL CHIP	100	5%	1/10W
R1569	1-216-809-11	METAL CHIP	100	5%	1/10W	R1623	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1570	1-216-809-11	METAL CHIP	100	5%	1/10W	R1624	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1571	1-216-809-11	METAL CHIP	100	5%	1/10W	R1625	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1572	1-216-809-11	METAL CHIP	100	5%	1/10W	R1626	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1573	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R1627	1-218-676-11	METAL CHIP	220	0.50%	1/10W
R1574	1-216-809-11	METAL CHIP	100	5%	1/10W	R1628	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1575	1-216-809-11	METAL CHIP	100	5%	1/10W	R1629	1-216-853-11	METAL CHIP	470K	5%	1/10W
R1576	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1630	1-218-676-11	METAL CHIP	220	0.50%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1631	1-218-676-11	METAL CHIP	220	0.50%	1/10W	CONNECTOR					
R1632	1-218-676-11	METAL CHIP	220	0.50%	1/10W	* CN1052	1-564-509-11	PLUG, CONNECTOR	6P		
R1635	1-216-821-11	METAL CHIP	1K	5%	1/10W	* CN1053	1-564-510-11	PLUG, CONNECTOR	7P		
R1636	1-216-821-11	METAL CHIP	1K	5%	1/10W	DIODE					
R1637	1-216-821-11	METAL CHIP	1K	5%	1/10W	D1052	8-719-070-80	DIODE	LNK0120022G		
R1645	1-216-809-11	METAL CHIP	100	5%	1/10W	D1057	8-719-991-33	DIODE	1SS133T-77		
R1646	1-216-803-11	METAL CHIP	33	5%	1/10W	IC					
R1647	1-216-803-11	METAL CHIP	33	5%	1/10W	IC1051	8-742-212-20	HYB IC	SBX3081-71		
R1648	1-216-803-11	METAL CHIP	33	5%	1/10W	IC1052	8-759-729-01	IC	NJM2901N		
R1649	1-218-676-11	METAL CHIP	220	0.50%	1/10W	IC1055	6-600-275-01	IC	MPXA6115AC7U		
R1650	1-218-676-11	METAL CHIP	220	0.50%	1/10W	TRANSISTOR					
R1651	1-218-676-11	METAL CHIP	220	0.50%	1/10W	Q1051	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
R1652	1-218-676-11	METAL CHIP	220	0.50%	1/10W	Q1052	8-729-119-76	TRANSISTOR	2SA1175-HFE		
R1653	1-218-676-11	METAL CHIP	220	0.50%	1/10W	Q1060	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
R1654	1-218-676-11	METAL CHIP	220	0.50%	1/10W	Q1061	8-729-119-76	TRANSISTOR	2SA1175-HFE		
R1655	1-218-676-11	METAL CHIP	220	0.50%	1/10W	RESISTOR					
R1656	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R1052	1-249-409-11	CARBON	220	5%	1/4W
R1657	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R1054	1-249-433-11	CARBON	22K	5%	1/4W
R1658	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R1055	1-249-385-11	CARBON	2.2	5%	1/4W
R1659	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R1056	1-249-417-11	CARBON	1K	5%	1/4W
R1660	1-218-676-11	METAL CHIP	220	0.50%	1/10W	R1057	1-249-417-11	CARBON	1K	5%	1/4W
VARISTOR											
VD1512	1-803-974-21	VARISTOR, CHIP	(1608)								
VD1513	1-803-974-21	VARISTOR, CHIP	(1608)								
VD1516	1-803-974-21	VARISTOR, CHIP	(1608)								
HCX											
*	A-1303-042-A	HCX BOARD, COMPLETE									
CAPACITOR											
C1051	1-126-964-11	ELECT	10µF	20%	50V	R1058	1-215-442-00	METAL	7.5K	1%	1/4W
C1053	1-126-964-11	ELECT	10µF	20%	50V	R1059	1-249-437-11	CARBON	47K	5%	1/4W
C1054	1-126-964-11	ELECT	10µF	20%	50V	R1060	1-247-895-91	CARBON	470K	5%	1/4W
C1060	1-130-471-00	MYLAR	0.001µF	5%	50V	R1061	1-249-429-11	CARBON	10K	5%	1/4W
C1061	1-130-495-00	MYLAR	0.1µF	5%	50V	R1062	1-247-895-91	CARBON	470K	5%	1/4W
C1063	1-126-947-11	ELECT	47µF	20%	35V	R1063	1-249-429-11	CARBON	10K	5%	1/4W
C1064	1-137-150-11	FILM	0.01µF	5%	100V	R1064	1-215-453-00	METAL	22K	1%	1/4W
C1065	1-137-150-11	FILM	0.01µF	5%	100V	R1065	1-215-457-00	METAL	33K	1%	1/4W
C1066	1-137-150-11	FILM	0.01µF	5%	100V	R1066	1-215-453-00	METAL	22K	1%	1/4W
C1067	1-137-150-11	FILM	0.01µF	5%	100V	R1067	1-215-461-00	METAL	47K	1%	1/4W
						R1068	1-215-453-00	METAL	22K	1%	1/4W
						R1069	1-215-465-00	METAL	68K	1%	1/4W
						R1071	1-247-895-91	CARBON	470K	5%	1/4W
						R1072	1-249-429-11	CARBON	10K	5%	1/4W
						R1073	1-247-895-91	CARBON	470K	5%	1/4W

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HGX **CX**

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
R1075	1-249-429-11	CARBON	10K 5% 1/4W	C9044	1-126-934-11	ELECT	220 μ F 20% 16V
R1080	1-249-429-11	CARBON	10K 5% 1/4W	C9045	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R1081	1-249-437-11	CARBON	47K 5% 1/4W	C9046	1-126-933-11	ELECT	100 μ F 20% 16V
R1082	1-249-437-11	CARBON	47K 5% 1/4W	C9048	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R1083	1-249-429-11	CARBON	10K 5% 1/4W	C9049	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
SWITCH				C9050 1-164-004-11 CERAMIC CHIP 0.1 μ F 10% 25V			
S1052	1-692-431-21	SWITCH, TACTILE		C9051 1-165-319-11 CERAMIC CHIP 0.1 μ F 50V			
THERMISTOR				CONNECTOR			
TH1051	1-807-796-11	THERMISTOR		* CN9001	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)	11P
* A-1400-562-A CX BOARD, MOUNTED				* CN9002	1-564-507-11	PLUG, CONNECTOR	4P
	4-382-854-11	SCREW (M3X10), P, SW (+)		CN9003	1-695-915-11	TAB (CONTACT)	
CAPACITOR				CN9004	1-695-915-11	TAB (CONTACT)	
C9004	1-115-350-51	CERAMIC	0.0047 μ F 2KV	CN9009	1-785-879-11	CONNECTOR, ONE TOUCH	
C9009	1-163-104-00	CERAMIC CHIP	30pF 5% 50V	DIODE			
C9010	1-163-104-00	CERAMIC CHIP	30pF 5% 50V	D9002	8-719-977-28	DIODE	DTZ10B
C9011	1-161-830-00	CERAMIC	0.0047 μ F 500V	D9005	8-719-404-50	DIODE	MA111-TX
C9012	1-161-830-00	CERAMIC	0.0047 μ F 500V	D9006	8-719-051-85	DIODE	HSS83TD
C9013	1-163-035-00	CERAMIC CHIP	0.047 μ F 50V	D9007	8-719-051-85	DIODE	HSS83TD
C9014	1-161-830-00	CERAMIC	0.0047 μ F 500V	D9008	8-719-051-85	DIODE	HSS83TD
C9015	1-163-104-00	CERAMIC CHIP	30pF 5% 50V	D9009	8-719-908-03	DIODE	GP08D
C9018	1-107-961-91	ELECT	10 μ F 20% 250V	D9010	8-719-110-17	DIODE	RD10ESB2
C9019	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	IC			
C9020	1-107-961-91	ELECT	10 μ F 20% 250V	IC9001	8-759-680-01	IC	TDA6120Q/N2/S1
C9021	1-107-961-91	ELECT	10 μ F 20% 250V	IC9002	8-759-680-01	IC	TDA6120Q/N2/S1
C9022	1-101-006-00	CERAMIC	0.047 μ F 50V	IC9003	8-759-680-01	IC	TDA6120Q/N2/S1
C9023	1-101-006-00	CERAMIC	0.047 μ F 50V	JACK			
C9024	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	\triangle J9001	1-451-544-11	SOCKET, CRT	
C9025	1-104-653-11	ELECT	220 μ F 20% 16V	COIL			
C9026	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V	L9002	1-408-592-11	INDUCTOR	1.2 μ H
C9027	1-101-006-00	CERAMIC	0.047 μ F 50V	L9003	1-408-592-11	INDUCTOR	1.2 μ H
C9031	1-115-349-51	CERAMIC	0.01 μ F 2KV	L9004	1-408-592-11	INDUCTOR	1.2 μ H
C9032	1-162-116-00	CERAMIC	680pF 10% 2KV	L9005	1-406-666-21	INDUCTOR	150 μ H
C9033	1-107-662-11	ELECT	22 μ F 20% 350V	L9006	1-412-526-11	INDUCTOR	12 μ H
C9036	1-115-339-11	CERAMIC CHIP	0.1 μ F 10% 50V				
C9042	1-128-527-11	ELECT	330 μ F 20% 25V				

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
NEON LAMP						R9036	1-216-083-00	RES-CHIP	27K	5%	1/10W
NL9003	1-519-421-11	GAP, DISCHARGE				R9037	1-215-926-00	METAL OXIDE	33K	5%	3W
TRANSISTOR						R9039	1-216-025-11	RES-CHIP	100	5%	1/10W
Q9001	8-729-600-22	TRANSISTOR	2SA1235-F			R9041	1-216-083-00	RES-CHIP	27K	5%	1/10W
Q9003	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R9042	1-216-083-00	RES-CHIP	27K	5%	1/10W
Q9004	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R9043	1-215-926-00	METAL OXIDE	33K	5%	3W
Q9005	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R9044	1-215-926-00	METAL OXIDE	33K	5%	3W
Q9007	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16			R9047	1-219-744-11	METAL	220	5%	1/2W
Q9009	8-729-600-22	TRANSISTOR	2SA1235-F			R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q9010	8-729-600-22	TRANSISTOR	2SA1235-F			R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q9011	8-729-600-22	TRANSISTOR	2SA1235-F			R9051	1-219-744-11	METAL	220	5%	1/2W
Q9013	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16			R9052	1-219-744-11	METAL	220	5%	1/2W
Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7			R9056	1-219-743-11	METAL	100	5%	1/2W
Q9015	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16			R9057	1-219-510-11	METAL	470K	5%	1/2W
RESISTOR						R9059	1-219-746-11	METAL	1K	5%	1/2W
R9001	1-216-633-11	METAL CHIP	180	0.50%	1/10W	R9061	1-219-743-11	METAL	100	5%	1/2W
R9006	1-216-073-91	RES-CHIP	10K	5%	1/10W	R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9007	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W	R9063	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9012	1-216-295-91	SHORT CHIP				R9070	1-249-403-11	CARBON	68	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W	R9071	1-247-807-31	CARBON	100	5%	1/4W
R9014	1-216-033-00	RES-CHIP	220	5%	1/10W	R9072	1-216-025-11	RES-CHIP	100	5%	1/10W
R9015	1-249-409-11	CARBON	220	5%	1/4W	R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9016	1-216-033-00	RES-CHIP	220	5%	1/10W	R9074	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R9018	1-216-633-11	METAL CHIP	180	0.50%	1/10W	R9077	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9019	1-216-633-11	METAL CHIP	180	0.50%	1/10W	R9089	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R9020	1-216-025-11	RES-CHIP	100	5%	1/10W	R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9021	1-216-103-00	RES-CHIP	180K	5%	1/10W	R9092	1-216-295-91	SHORT CHIP			
R9022	1-216-073-91	RES-CHIP	10K	5%	1/10W	R9094	1-216-295-91	SHORT CHIP			
R9023	1-216-103-00	RES-CHIP	180K	5%	1/10W	R9095	1-216-295-91	SHORT CHIP			
R9025	1-216-025-11	RES-CHIP	100	5%	1/10W	VARIABLE RESISTOR					
R9026	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W	\triangle RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M			
R9027	1-216-103-00	RES-CHIP	180K	5%	1/10W						
R9028	1-216-103-00	RES-CHIP	180K	5%	1/10W						
R9029	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R9030	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R9031	1-208-783-11	METAL CHIP	1.1K	0.50%	1/10W						
R9032	1-216-103-00	RES-CHIP	180K	5%	1/10W						
R9033	1-215-435-00	METAL	3.9K	1%	1/4W						
R9034	1-215-428-00	METAL	2K	1%	1/4W						
R9035	1-216-103-00	RES-CHIP	180K	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
HAX				WY			
*	A-1405-292-A	HAX BOARD, MOUNTED		*	A-1415-862-A	WY (VAR) BOARD, MOUNTED (KD-34XS955 ONLY)	
				*	A-1415-869-A	WY (VAR) BOARD, MOUNTED (KD-30XS955 ONLY)	
	<u>CONNECTOR</u>				4-382-854-01	SCREW (M3X8), P, SW (+)	
*	CN1001	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)				10P
*	CN1002	1-564-509-11	PLUG, CONNECTOR				6P
	<u>RESISTOR</u>				<u>CAPACITOR</u>		
R1002	1-249-431-11	CARBON	15K 5% 1/4W	C9101	1-104-999-11	MYLAR	0.1µF 5% 200V
R1003	1-249-413-11	CARBON	470 5% 1/4W	C9104	1-126-933-11	ELECT	100µF 20% 16V
R1004	1-249-415-11	CARBON	680 5% 1/4W	C9105	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
R1005	1-249-417-11	CARBON	1K 5% 1/4W	C9106	1-164-156-11	CERAMIC CHIP	0.1µF 25V
R1006	1-249-421-11	CARBON	2.2K 5% 1/4W	C9108	1-107-662-11	ELECT	22µF 20% 350V
R1007	1-249-425-11	CARBON	4.7K 5% 1/4W	C9109	1-161-830-00	CERAMIC	0.0047µF 500V
R1008	1-249-431-11	CARBON	15K 5% 1/4W	C9110	1-164-156-11	CERAMIC CHIP	0.1µF 25V
R1009	1-249-413-11	CARBON	470 5% 1/4W	C9111	1-126-964-11	ELECT	10µF 20% 50V
R1010	1-249-415-11	CARBON	680 5% 1/4W	C9112	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
R1011	1-249-417-11	CARBON	1K 5% 1/4W	C9113	1-137-528-11	MYLAR	0.1µF 10% 250V
R1012	1-249-421-11	CARBON	2.2K 5% 1/4W	C9114	1-107-636-11	ELECT	10µF 20% 160V
R1013	1-249-425-11	CARBON	4.7K 5% 1/4W	C9115	1-137-528-11	MYLAR	0.1µF 10% 250V
	<u>SWITCH</u>			C9116	1-164-156-11	CERAMIC CHIP	0.1µF 25V
S1001	1-762-837-11	SWITCH, TACTILE		C9117	1-117-450-11	MYLAR	0.47µF 10% 250V
S1002	1-762-837-11	SWITCH, TACTILE		C9118	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
S1003	1-692-431-21	SWITCH, TACTILE		C9120	1-130-495-00	MYLAR	0.1µF 5% 50V
S1004	1-762-837-11	SWITCH, TACTILE		C9121	1-126-947-11	ELECT	47µF 20% 35V
S1005	1-692-431-21	SWITCH, TACTILE		C9125	1-130-495-00	MYLAR	0.1µF 5% 50V
S1006	1-762-837-11	SWITCH, TACTILE		C9126	1-126-947-11	ELECT	47µF 20% 35V
S1007	1-692-431-21	SWITCH, TACTILE		C9127	1-130-495-00	MYLAR	0.1µF 5% 50V
S1008	1-762-837-11	SWITCH, TACTILE		C9128	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
				C9129	1-136-177-00	FILM	1µF 5% 50V
				C9130	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
				C9131	1-162-970-11	CERAMIC CHIP	0.01µF 10% 25V
				C9132	1-165-908-11	CERAMIC CHIP	1µF 10% 10V
				C9133	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
				C9134	1-162-964-11	CERAMIC CHIP	0.001µF 10% 50V
				C9135	1-130-777-00	MYLAR	0.1µF 5% 100V
				C9136	1-130-495-00	MYLAR	0.1µF 5% 50V
				C9139	1-117-662-81	FILM	0.18µF 5% 250V
				C9141	1-164-245-11	CERAMIC CHIP	0.015µF 10% 25V
				C9142	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
				C9143	1-126-947-11	ELECT	47µF 20% 35V
				C9144	1-162-927-11	CERAMIC CHIP	100pF 5% 50V



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>CONNECTOR</u>							
* CN9100	1-564-515-11	PLUG, CONNECTOR	12P	Q9104	8-729-600-22	TRANSISTOR	2SA1235-F
* CN9101	1-564-506-11	PLUG, CONNECTOR	3P	Q9105	8-729-120-28	TRANSISTOR	2SC1623-L5L6
* CN9102	1-564-509-11	PLUG, CONNECTOR	6P	Q9106	8-729-600-22	TRANSISTOR	2SA1235-F
* CN9103	1-770-747-11	CONNECTOR, BOARD TO BOARD	12P	Q9107	8-729-120-28	TRANSISTOR	2SC1623-L5L6
* CN9104	1-564-506-11	PLUG, CONNECTOR	3P	Q9108	8-729-600-22	TRANSISTOR	2SA1235-F
* CN9106	1-564-507-11	PLUG, CONNECTOR	4P	Q9109	8-729-120-28	TRANSISTOR	2SC1623-L5L6
<u>DIODE</u>							
D9101	8-719-404-50	DIODE	MA111-TX	Q9110	8-729-045-04	TRANSISTOR	2SC5511
D9102	8-719-083-83	DIODE	UDZS-TE17-15B	Q9111	8-729-045-05	TRANSISTOR	2SA2005
D9103	8-719-404-50	DIODE	MA111-TX	Q9112	8-729-120-28	TRANSISTOR	2SC1623-L5L6
D9104	8-719-404-50	DIODE	MA111-TX	Q9113	8-729-120-28	TRANSISTOR	2SC1623-L5L6
<u>FERRITE BEAD</u>							
FB9100	1-410-397-21	FERRITE	1.1µH	Q9114	8-729-120-28	TRANSISTOR	2SC1623-L5L6
FB9101	1-410-397-21	FERRITE	1.1µH	Q9115	8-729-120-28	TRANSISTOR	2SC1623-L5L6
<u>IC</u>							
IC9100	8-759-822-38	IC	LA6510	Q9116	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC9102	8-759-822-38	IC	LA6510	Q9117	8-729-120-28	TRANSISTOR	2SC1623-L5L6
IC9103	8-759-701-01	IC	NJM2904M	Q9118	8-729-600-22	TRANSISTOR	2SA1235-F
<u>CHIP CONDUCTOR</u>							
JR9100	1-216-864-11	SHORT CHIP		Q9119	8-729-048-49	TRANSISTOR	2SK3262-01MR-F119
JR9101	1-216-864-11	SHORT CHIP		Q9121	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR9102	1-216-864-11	SHORT CHIP		Q9122	8-729-120-28	TRANSISTOR	2SC1623-L5L6
JR9103	1-216-864-11	SHORT CHIP		Q9123	8-729-600-22	TRANSISTOR	2SA1235-F
JR9104	1-216-864-11	SHORT CHIP		Q9124	8-729-600-22	TRANSISTOR	2SA1235-F
<u>COIL</u>							
L9100	1-412-525-31	INDUCTOR	10µH	Q9125	8-729-120-28	TRANSISTOR	2SC1623-L5L6
L9101	1-406-674-11	INDUCTOR	3.3MH	<u>RESISTOR</u>			
L9102	1-406-664-21	INDUCTOR	68µH	R9101	1-216-805-11	METAL CHIP	47 5% 1/10W
<u>TRANSISTOR</u>				R9102	1-260-322-11	CARBON	330 5% 1/2W
Q9100	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9103	1-216-819-11	METAL CHIP	680 5% 1/10W
Q9101	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9104	1-216-820-11	METAL CHIP	820 5% 1/10W
Q9102	8-729-600-22	TRANSISTOR	2SA1235-F	R9105	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q9103	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R9106	1-218-715-11	METAL CHIP	9.1K 0.50% 1/10W
				R9107	1-216-809-11	METAL CHIP	100 5% 1/10W
				R9108	1-216-817-11	METAL CHIP	470 5% 1/10W
				R9109	1-216-817-11	METAL CHIP	470 5% 1/10W
				R9110	1-216-805-11	METAL CHIP	47 5% 1/10W
				R9111	1-216-805-11	METAL CHIP	47 5% 1/10W
				R9112	1-249-389-11	CARBON	4.7 5% 1/4W
				R9113	1-249-389-11	CARBON	4.7 5% 1/4W
				R9114	1-249-389-11	CARBON	4.7 5% 1/4W
				R9115	1-249-389-11	CARBON	4.7 5% 1/4W
				R9116	1-249-389-11	CARBON	4.7 5% 1/4W
				R9117	1-249-389-11	CARBON	4.7 5% 1/4W
				R9118	1-249-389-11	CARBON	4.7 5% 1/4W
				R9119	1-249-389-11	CARBON	4.7 5% 1/4W
				R9120	1-218-867-11	METAL CHIP	6.8K 0.50% 1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9121	1-216-848-11	METAL CHIP	180K	5%	1/10W	R9172	1-216-809-11	METAL CHIP	100	5%	1/10W
R9122	1-216-847-11	METAL CHIP	150K	5%	1/10W	R9173	1-215-888-00	METAL OXIDE	220	5%	2W
R9123	1-216-848-11	METAL CHIP	180K	5%	1/10W	R9174	1-216-352-11	METAL OXIDE	1.8	5%	1W
R9124	1-216-847-11	METAL CHIP	150K	5%	1/10W	R9175	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R9125	1-218-867-11	METAL CHIP	6.8K	0.50%	1/10W	R9176	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R9126	1-216-805-11	METAL CHIP	47	5%	1/10W	R9177	1-216-864-11	SHORT CHIP			
R9127	1-216-805-11	METAL CHIP	47	5%	1/10W	R9179	1-216-864-11	SHORT CHIP			
R9128	1-215-888-00	METAL OXIDE	220	5%	2W	R9180	1-218-724-11	METAL CHIP	22K	0.50%	1/10W
R9130	1-218-700-11	METAL CHIP	2.2K	0.50%	1/10W		(KD-34XS955 ONLY)				
R9131	1-218-730-11	METAL CHIP	39K	0.50%	1/10W	R9180	1-218-716-11	METAL CHIP	10K	0.50%	1/10W
R9132	1-218-713-11	METAL CHIP	7.5K	0.50%	1/10W		(KD-30XS955 ONLY)				
R9133	1-249-391-11	CARBON	6.8	5%	1/4W	R9181	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R9134	1-249-383-11	CARBON	1.5	5%	1/4W	R9182	1-218-740-11	METAL CHIP	100K	0.50%	1/10W
R9135	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R9185	1-249-385-11	CARBON	2.2	5%	1/4W
R9138	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W	R9186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9139	1-218-692-11	METAL CHIP	1K	0.50%	1/10W	R9187	1-249-389-11	CARBON	4.7	5%	1/4W
R9140	1-216-864-11	SHORT CHIP				R9188	1-249-389-11	CARBON	4.7	5%	1/4W
R9141	1-214-657-11	METAL	1	1%	1/4W	R9189	1-249-389-11	CARBON	4.7	5%	1/4W
R9142	1-214-657-11	METAL	1	1%	1/4W	R9190	1-249-389-11	CARBON	4.7	5%	1/4W
R9143	1-216-429-00	METAL OXIDE	270	5%	1W						
R9144	1-215-867-00	METAL OXIDE	470	5%	1W						
R9145	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W						
R9146	1-249-385-11	CARBON	2.2	5%	1/4W						
R9147	1-218-726-11	METAL CHIP	27K	0.50%	1/10W						
R9148	1-218-722-11	METAL CHIP	18K	0.50%	1/10W						
R9149	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R9150	1-218-712-11	METAL CHIP	6.8K	0.50%	1/10W						
R9151	1-218-716-11	METAL CHIP	10K	0.50%	1/10W						
R9152	1-218-704-11	METAL CHIP	3.3K	0.50%	1/10W						
R9153	1-218-716-11	METAL CHIP	10K	0.50%	1/10W						
R9154	1-218-732-11	METAL CHIP	47K	0.50%	1/10W						
R9155	1-216-857-11	METAL CHIP	1M	5%	1/10W						
R9156	1-218-692-11	METAL CHIP	1K	0.50%	1/10W						
R9158	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R9159	1-216-864-11	SHORT CHIP									
R9160	1-218-724-11	METAL CHIP	22K	0.50%	1/10W						
R9162	1-216-839-11	METAL CHIP	33K	5%	1/10W						
R9164	1-216-839-11	METAL CHIP	33K	5%	1/10W						
R9166	1-218-716-11	METAL CHIP	10K	0.50%	1/10W						
R9167	1-218-732-11	METAL CHIP	47K	0.50%	1/10W						
R9168	1-216-839-11	METAL CHIP	33K	5%	1/10W						
R9169	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R9170	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R9171	1-249-401-11	CARBON	47	5%	1/4W						



* **A-1303-030-A QH 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.

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>ACCESSORIES AND PACKING</u>							
*	4-066-646-02	BAG, PROTECTION (KD-34XS955 ONLY) (For PTG)					
*	4-066-845-11	BAG, PROTECTION (KD-30XS955/34XS955) (For STE)					
*	2-318-712-01	CARTON, INDIVIDUAL (KD-34XS955 ONLY) (For PTG)					
*	4-102-865-01	CARTON, INDIVIDUAL (KD-34XS955 ONLY) (For STE)					
*	4-102-864-01	CARTON, INDIVIDUAL (KD-30XS955 ONLY)					
*	2-178-332-01	CUSHION, (FRONT) UPPER (KD-34XS955 ONLY) (For PTG)					
*	4-102-097-01	CUSHION, (FRONT) UPPER (KD-34XS955 ONLY) (For STE)					
*	2-178-333-01	CUSHION, (REAR) UPPER (KD-34XS955 ONLY) (For PTG)					
*	4-102-098-01	CUSHION, (REAR) UPPER (KD-34XS955 ONLY) (For STE)					
*	2-178-334-01	CUSHION, LOWER (KD-34XS955 ONLY) (For PTG)					
*	4-102-095-02	CUSHION, LOWER (KD-30XS955 ONLY)					
*	4-102-099-01	CUSHION, LOWER (KD-34XS955 ONLY) (For STE)					
*	4-102-094-02	CUSHION, UPPER (KD-30XS955 ONLY)					
	4-102-728-22	MANUAL, INSTRUCTION					
	4-102-728-31	MANUAL, INSTRUCTION (KD-34XS955 CND ONLY)					
	2-148-611-22	QUICK START POSTER (ENGLISH)					
*	4-041-423-11	SHEET, PROTECTION					
<u>REMOTE COMMANDER</u>							
	1-478-711-11	REMOTE COMMANDER RM-Y199					
	4-978-977-01	LID, BATTERY CASE (for RM-Y199)					
<u>MISCELLANEOUS</u>							
*	7-322-065-48	RUBBER, SILICONE RTV (KE-3490) (KD-34XS955 ONLY)					

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 the Service Promotion Department at Service_Promotion@am.sony.com.