

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

# SERVICE MANUAL

# DA-4 CHASSIS

| <u>MODEL NAME</u>  | <u>REMOTE COMMANDER</u> | <u>DESTINATION</u> | <u>CHASSIS NO.</u> |
|--------------------|-------------------------|--------------------|--------------------|
| <b>KV-27HS420</b>  | RM-Y197                 | US                 | SCC-S66P-A         |
| <b>KV-27HS420</b>  | RM-Y197                 | CANADA             | SCC-S70N-A         |
| <b>KV-29DRC420</b> | RM-Y197                 | LATIN NORTH        | SCC-S71L-A         |
| <b>KV-29DRC420</b> | RM-Y197                 | LATIN SOUTH        | SCC-S71M-A         |
| <b>KV-30HS420</b>  | RM-Y197                 | US                 | SCC-S66Q-A         |
| <b>KV-30HS420</b>  | RM-Y197                 | CANADA             | SCC-S70P-A         |
| <b>KV-30HS420</b>  | RM-Y197                 | HAWAII             | SCC-S69H-A         |
| <b>KV-32HS420</b>  | RM-Y197                 | US                 | SCC-S66R-A         |
| <b>KV-32HS420</b>  | RM-Y197                 | CANADA             | SCC-S70Q-A         |
| <b>KV-34HS420</b>  | RM-Y197                 | US                 | SCC-S66S-A         |
| <b>KV-34HS420</b>  | RM-Y197                 | CANADA             | SCC-S70R-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | US                 | SCC-S66T-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | CANADA             | SCC-S70S-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | HAWAII             | SCC-S69J-A         |

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

***4,000,001 to 4,499,999***

***8,000,001 to 8,499,999***

***9,000,001 to 9,499,999***

**ORIGINAL MANUAL ISSUE DATE: 5/2004**

 **UPDATED ITEM**

| <u>REVISION DATE</u> | <u>SUBJECT</u>  |
|----------------------|---|
| 5/2004               | No revisions or updates are applicable at this time.  |
| 11/2004              | Reissue entire manual.  |
| 12/2004              | Corrected Self-Diagnostic Circuit Diagram - Replaced Page 9   |
| 7/2005               | Added Serial Number range to Front Cover and History Information pages                                |
|                      | Corrected instructions for 2-1. Beam Landing - Replaced Page 22                                       |
|                      | Corrected Block Diagram for HS Signal Flow - Replaced Page 62   |
|                      | Corrected DZ Board Schematic Diagram (Page 1 of 2) - Replaced Page 65                                 |
|                      | Corrected PN for AY Board for 36" model in Section 6: Exploded Views - Replaced Page 102              |
|                      | Corrected PN for AY Board for 36" model in Section 7: Electrical Parts List - Replaced Page 120 & 121 |

**TRINITRON® COLOR TELEVISION**

**SONY®**

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| <b>KV-34HS420</b>  | RM-Y197                 | CANADA             | SCC-S70R-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | US                 | SCC-S66T-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | CANADA             | SCC-S70S-A         |
| <b>KV-36HS420</b>  | RM-Y197                 | HAWAII             | SCC-S69J-A         |

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***4,000,001 to 4,499,999***

***8,000,001 to 8,499,999***

***9,000,001 to 9,499,999***



KV-30HS420



RM-Y197

**TRINITRON® COLOR TELEVISION**

**SONY®**

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## SPECIFICATIONS

|                                 | KV-29DRC420  | KV-27HS420   | KV-30HS420   | KV-32HS420   | KV-34HS420   | KV-36HS420                                    |
|---------------------------------|--|--|--|--|--|---|
| <b>Power Requirements</b>       | 220V, 50-60Hz  | 120V, 60Hz   |  |  |  |   |
| <b>Number of Inputs/Outputs</b> |  |  |  |  |  |   |
| Video <sup>1)</sup>             | 4  | 4  |  |  |  |   |
| S Video <sup>2)</sup>           | 3  | 3  |  |  |  |   |
| Y,PB, PR <sup>3)</sup>          | 2  | 2  |  |  |  |   |
| Audio <sup>4)</sup>             | 7  | 7  |  |  |  |   |
| Audio Out <sup>5)</sup>         | 1  | 1  |  |  |  |   |
| Monitor Out                     | 1  | 1  |  |  |  |   |
| Control-S (In/Out)              | YES  | YES  |  |  |  |   |
| Memory Stick                    | NO   | NO   |  |  |  |   |
| <b>Speaker Output (W)</b>       | 10W x 2  | 10W x 2  | 10W x 2  | 10W x 2  | 10W x 2  |   |
| <b>Power Consumption (W)</b>    |  |  |  |  |  |   |
| In Use (Max)                    | 240W   | 240W   |  |  |  |   |
| In Standby                      | 1W   | 1W   |  |  |  |   |
| <b>Dimensions (W x H x D)</b>   |  |  |  |  |  |   |
| mm                              | 784 x 601.5 x 520 mm   | 784 x 601.5 x 520 mm   | 898 x 604 x 564.5 mm   | 898 x 698 x 598 mm   | 994 x 654 x 604 mm   | 994 x 776.5 x 634 mm                          |
| in                              | 30 <sup>7/8</sup> x 23 <sup>5/8</sup> x 20 <sup>1/2</sup> in | 30 <sup>7/8</sup> x 23 <sup>5/8</sup> x 20 <sup>1/2</sup> in | 35 <sup>3/8</sup> x 23 <sup>3/4</sup> x 22 <sup>1/4</sup> in | 35 <sup>3/8</sup> x 27 <sup>1/2</sup> x 23 <sup>1/2</sup> in | 39 <sup>1/8</sup> x 25 <sup>3/4</sup> x 23 <sup>3/4</sup> in | 39 <sup>1/8</sup> x 30 <sup>5/8</sup> x 25 in |
| <b>Mass</b>                     |  |  |  |  |  |   |
| kg                              | 50.2 kg  | 50.2 kg  | 68 kg  | 74.8 kg  | 88 kg  | 104.3 kg                                      |
| lbs                             | 111 lbs  | 111 lbs  | 150 lbs  | 165 lbs  | 194 lbs  | 230.0 lbs                                     |

- 1) 1 Vp-p 75 ohms unbalanced, sync negative  
2) Y: 1 Vp-p 75 ohms unbalanced, sync negative  
C: 0.286 Vp-p (Burst signal), 75 ohms  
3) Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;  
P<sub>B</sub>: 0.7 Vp-p, 75 ohms  
P<sub>R</sub>: 0.7 Vp-p, 75 ohms  
4) 500 mVrms (100% modulation), Impedance: 47 kilohms  
5) More than 408 mVrms at the maximum volume setting (variable)  
More than 408 mVrms (fix), Impedance (output): 2 kilohms

### TruSurround™ by SRS (SRS)®

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### ● SRS (SOUND RETRIEVAL SYSTEM)

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

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**Television system**

American TV standard, NTSC

**Channel coverage**

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

**Picture tube**

FD Trinitron<sup>®</sup> tube

**Visible screen size**

27-inch picture measured diagonally (KV-27HS420/29DRC420 Only)

30-inch picture measured diagonally (KV-30HS420 Only)

32-inch picture measured diagonally (KV-32HS420 Only)

34-inch picture measured diagonally (KV-34HS420 Only)

36-inch picture measured diagonally (KV-36HS420 Only)

**Actual screen size**

29-inch measured diagonally (KV-27HS420/29DRC420 Only)

32-inch measured diagonally (KV-30HS420 Only)

34-inch measured diagonally (KV-32HS420 Only)

36-inch measured diagonally (KV-34 HS420 Only)

38-inch measured diagonally (KV-36HS420 Only)

**Antenna**

75 ohm external terminal for VHF/UHF

**Supplied Accessories**

Remote Commander RM-Y197

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-27HX1 (KV-27HS420/29DRC420 Only)

TV Stand: SU-30HX1 (KV-30HS420 Only)

TV Stand: SU-32HX1 (KV-32HS420 Only)

TV Stand: SU-34HX1 (KV-34HS420 Only)

TV Stand: SU-36HX1 (KV-36HS420 Only)

## 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.

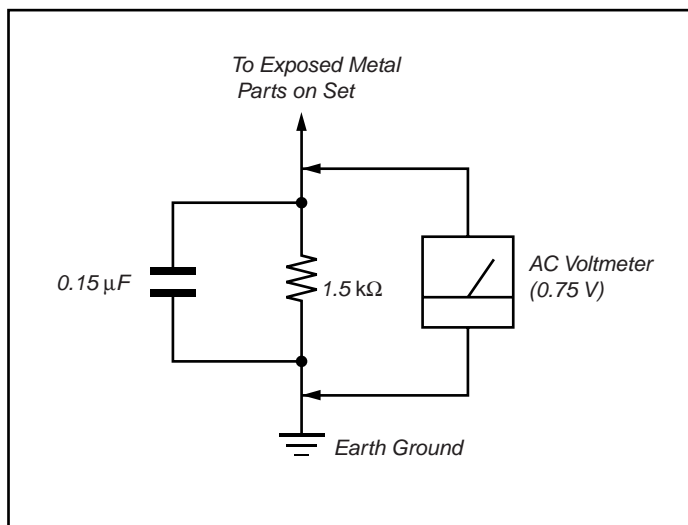


Figure A. Using an AC voltmeter to check AC leakage.

### Leakage Test

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

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

### How to Find a Good Earth Ground

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

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

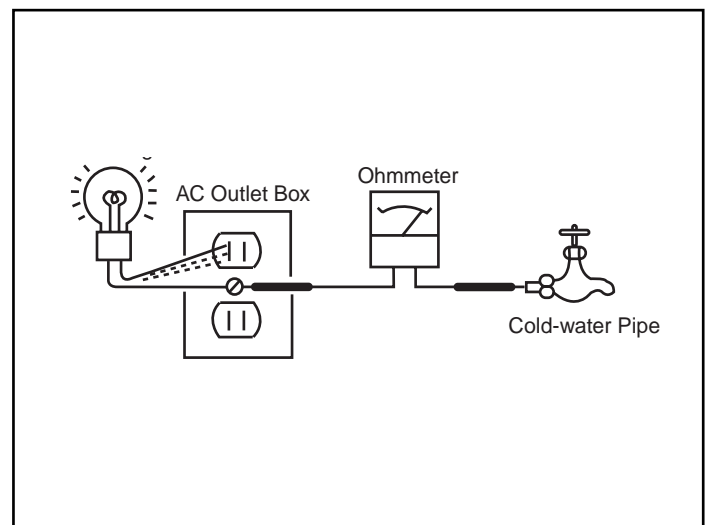


Figure B. Checking for earth ground.

## SELF-DIAGNOSTIC FUNCTION



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

### Diagnostic Test Indicators

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

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

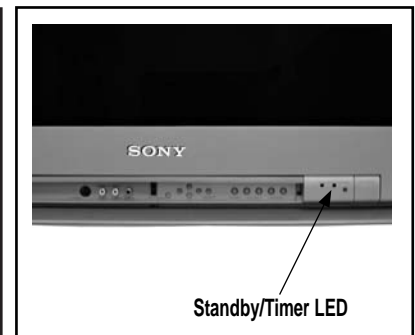
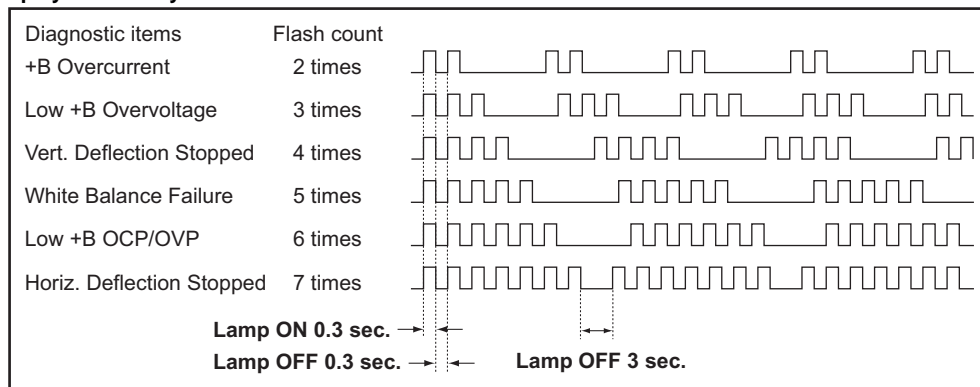
| Diagnostic Item                             | No. of times STANDBY / TIMER lamp flashes | Display Result | Probable Cause Location   | Detected Symptoms   |
|---|---|----------------|---|---|
| Power does not turn on                      | Does not light                            | —              | <ul style="list-style-type: none"> <li>Power cord is not plugged in.</li> <li>Fuse is burned out (F501). (AY Board)</li> </ul>  | <ul style="list-style-type: none"> <li>Power does not come on.</li> <li>No power is supplied to the TV.</li> <li>AC Power supply is faulty.</li> </ul>  |
| +B Overcurrent (OCP)*                       | 2 times                                   | 2:0 or 2:1     | <ul style="list-style-type: none"> <li>H.OUT (Q5030) is shorted. (DZ Board)</li> <li>+B PWM (Q5003) is shorted. (DZ Board)</li> </ul>   | <ul style="list-style-type: none"> <li>Power does not come on.</li> <li>Load on power line shorted.</li> </ul>  |
| Low +B Overvoltage (OVP)                    | 3 times                                   | 3:0 or 3:1     | <ul style="list-style-type: none"> <li>IC6505 is faulty. (DZ Board)</li> </ul>  | <ul style="list-style-type: none"> <li>Has entered standby mode.</li> </ul>   |
| Vertical Deflection Stopped                 | 4 times                                   | 4:0 or 4:1     | <ul style="list-style-type: none"> <li>15V is not supplied. (DZ Board)</li> <li>IC5004 is faulty. (DZ Board)</li> </ul>   | <ul style="list-style-type: none"> <li>Has entered standby mode after Horizontal raster.</li> <li>Vertical deflection pulse is stopped.</li> <li>Power line is shorted or power supply is stopped.</li> </ul> |
| White Balance Failure (not balanced)        | 5 times                                   | 5:0 or 5:1     | <ul style="list-style-type: none"> <li>Video OUT (IC9001-IC9003) is faulty. (CH, Board)</li> <li>CRT drive (IC2801) is faulty. (BY Brd.)</li> <li>G2 is improperly adjusted.**</li> </ul> | <ul style="list-style-type: none"> <li>No raster is generated.</li> <li>CRT cathode current detection reference pulse output is small.</li> </ul>   |
| LOW +B OCP/OVP (overcurrent/overvoltage)*** | 6 times                                   | 6:0 or 6:1     | <ul style="list-style-type: none"> <li>+5 line is overloaded. (AY, BY, MY Boards)</li> <li>+5 line is shorted. (AY, BY, MY Brds.)</li> <li>IC504 is faulty. (AY Board)</li> </ul>         | <ul style="list-style-type: none"> <li>No picture</li> </ul>  |
| Horizontal Deflection Stopped               | 7 times                                   | 7:0 or 7:1     |   | <ul style="list-style-type: none"> <li>No picture</li> </ul>  |

\* 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 — Numerical “0” means that no fault was detected.  
 1 — Numerical “1” means a fault was detected one time only.

### Handling of Self-Diagnostic Screen Display

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

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

### Clearing the Result Display

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

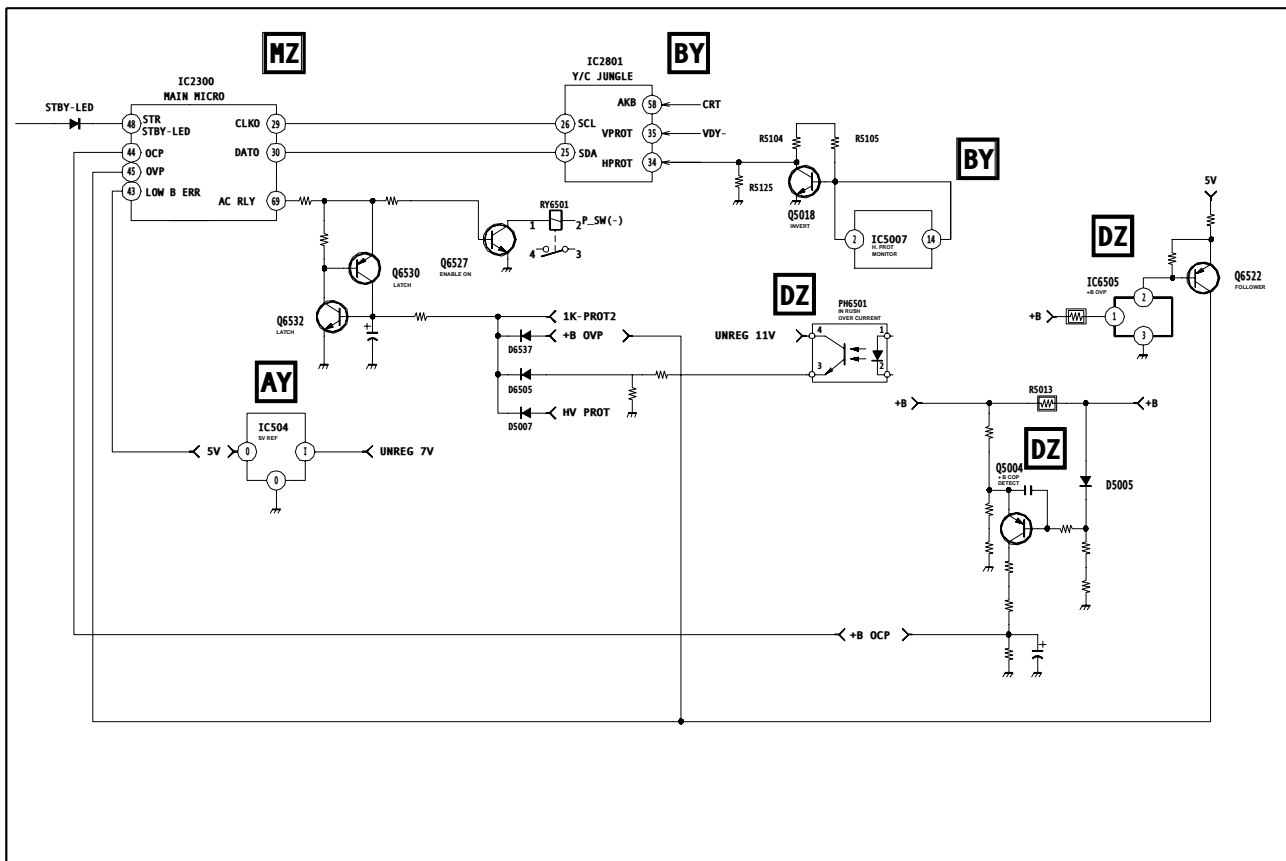
NOTE: This will also reset all user functions (including auto programming and picture settings)

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 (BY 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.

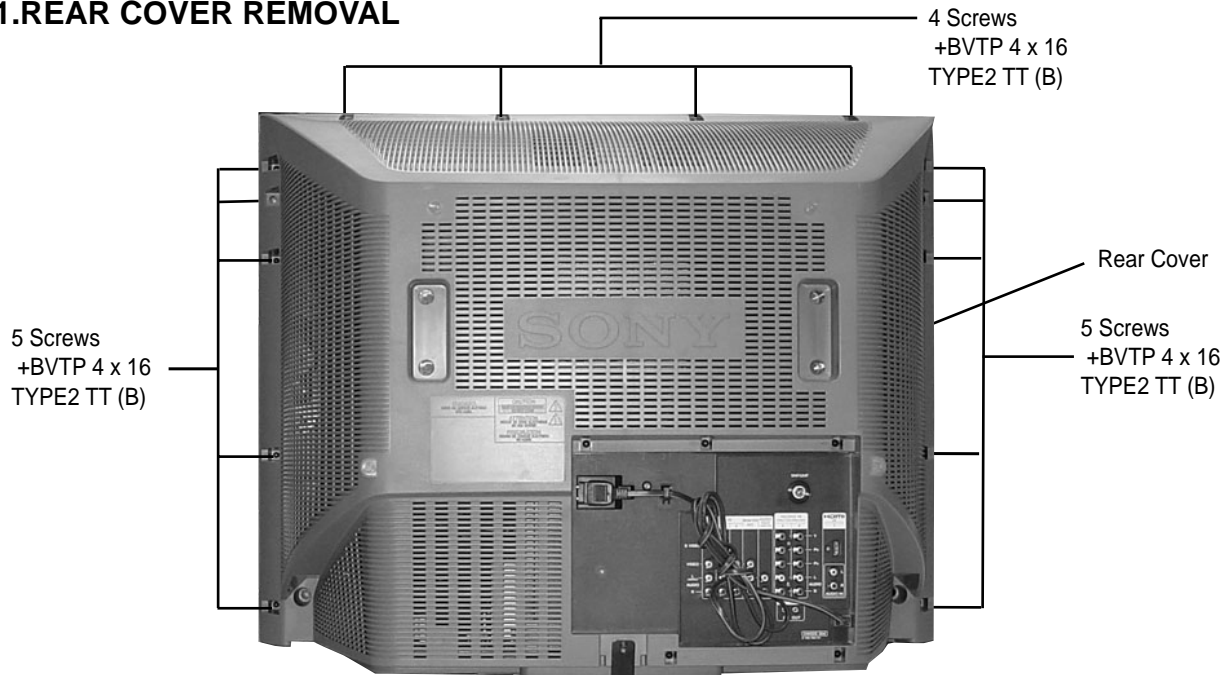
**Horizontal Deflection Stopped**

Occurs when either:

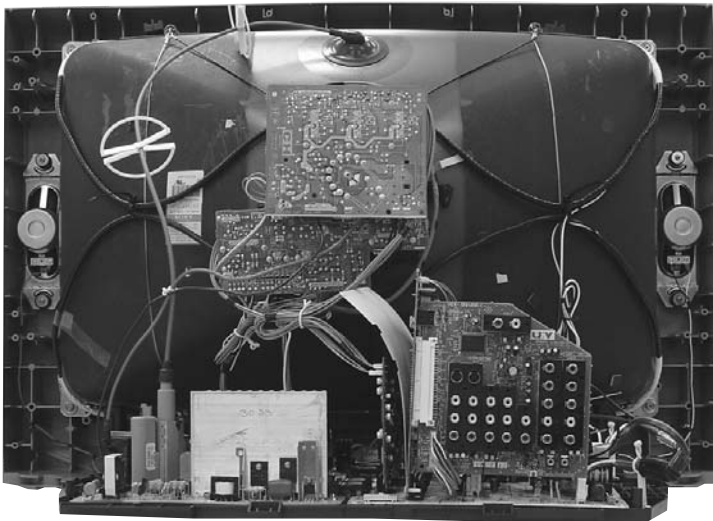
- 1) a +B overcurrent is detected (IC5007), or
- 2) overheating is detected (Thermistor TH5002).

## SECTION 1: DISASSEMBLY

### 1-1. REAR COVER REMOVAL

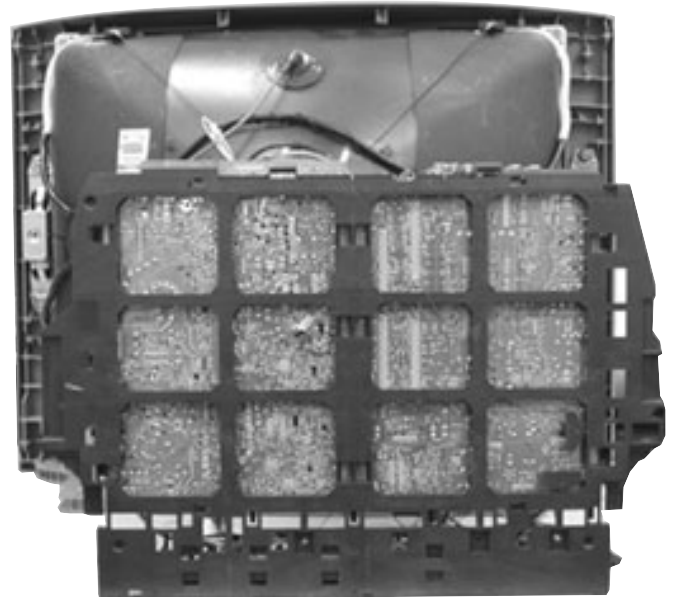


### 1-2. CHASSIS ASSEMBLY REMOVAL



- 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.

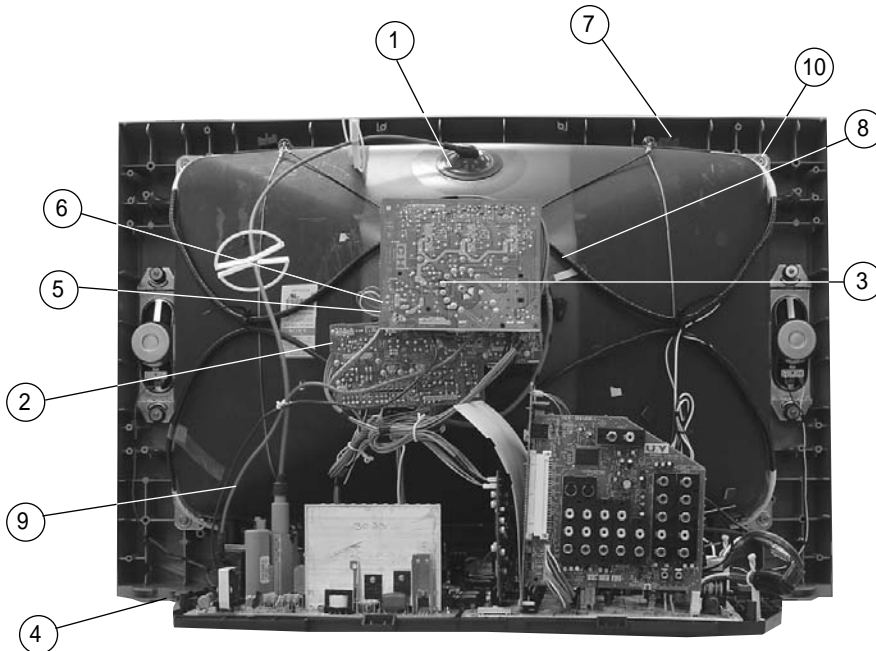
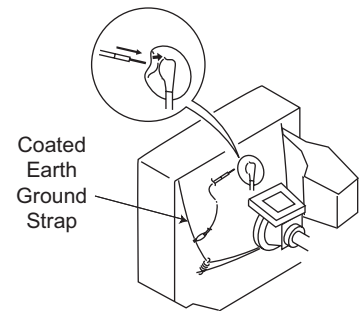
**CAUTION!** - Pay attention to Neck Assembly WY Board wire harness to BY Board. The WY Board can easily break if there is sudden or excessive tension on the harness.

- 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 AY and DZ Boards in order to service the unit.

## 1-4. PICTURE TUBE REMOVAL

### WARNING: BEFORE REMOVING THE ANODE CAP

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



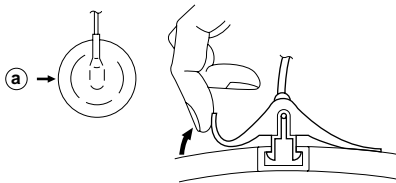
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the CH Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.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

## ANODE CAP REMOVAL PROCEDURE

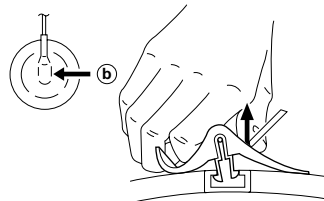
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

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

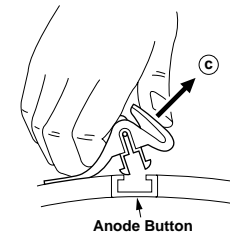
### REMOVAL PROCEDURES



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



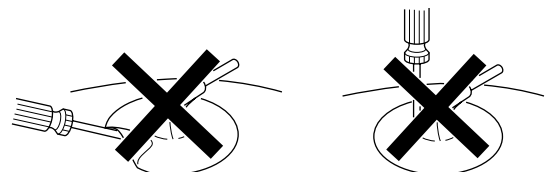
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



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

### HOW TO HANDLE AN ANODE CAP

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

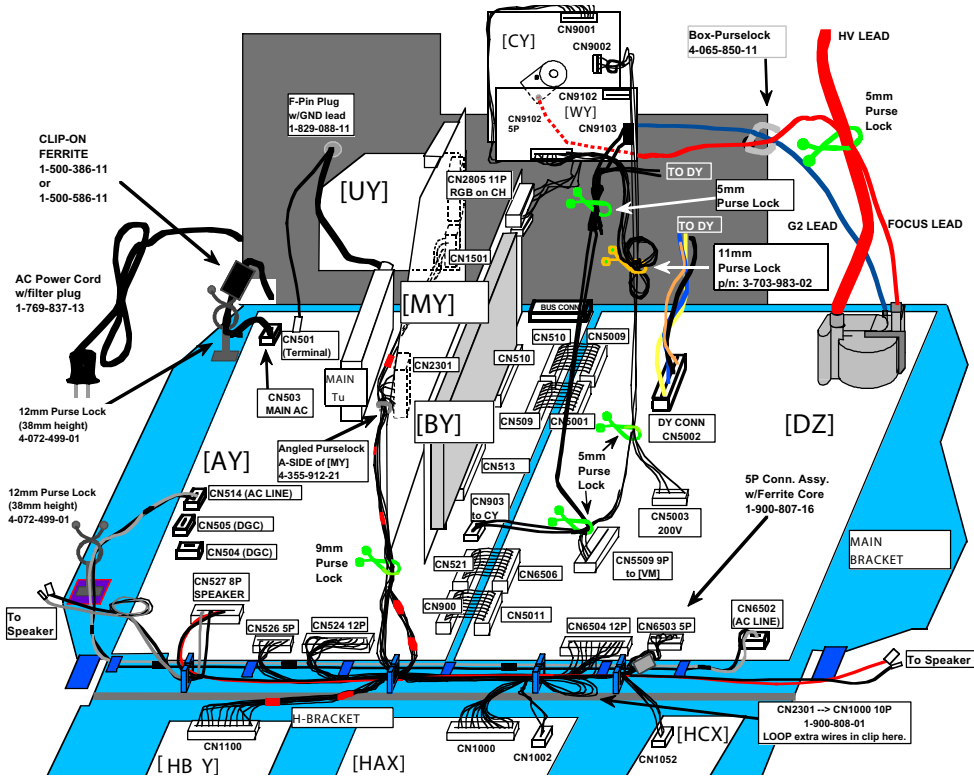




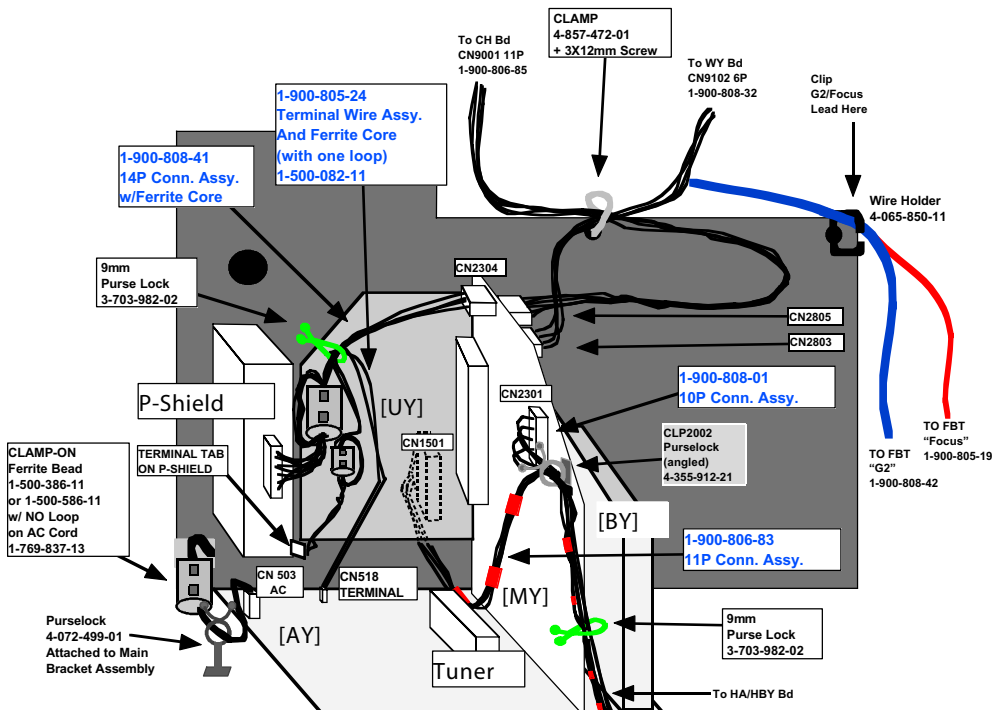
# CABLE WIRE DRESSING

**NOTE: IF THE WIRE DRESSING IS NOT DONE PROPERLY, IT MAY CAUSE DISTORTION**

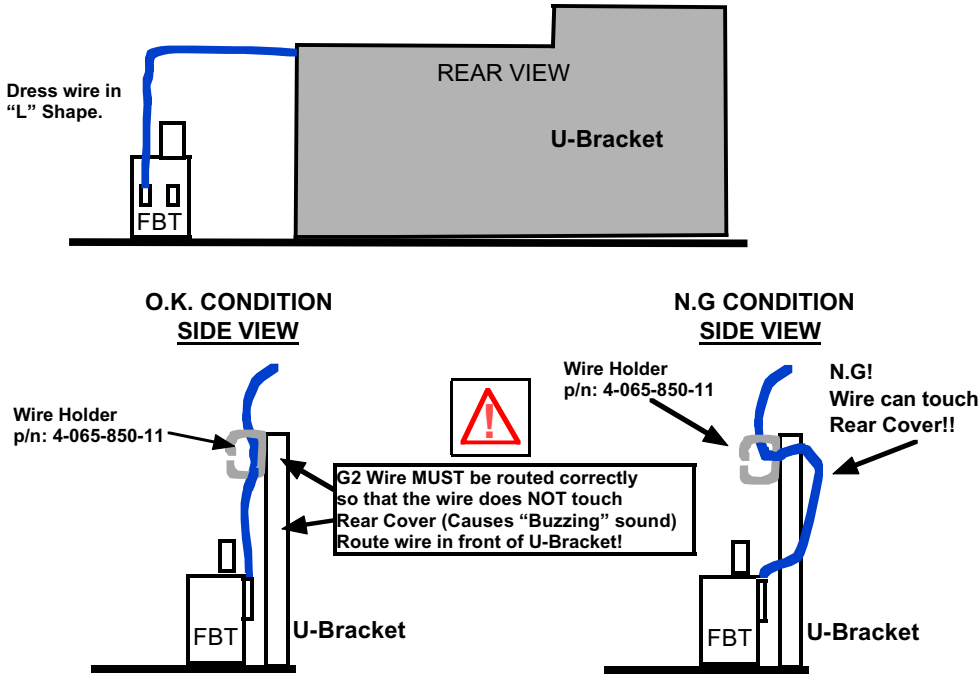
## CHASSIS ASSEMBLY (ALL EXCEPT KV-29DRC420)



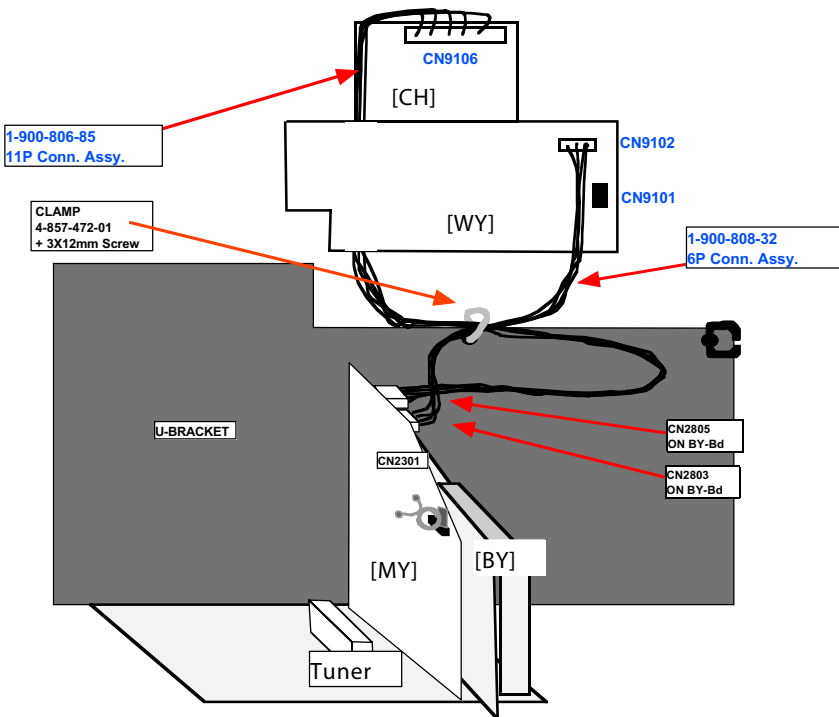
## U-BRACKET WIRE DRESSING



### G2 WIRE ROUTING CAUTION POINT



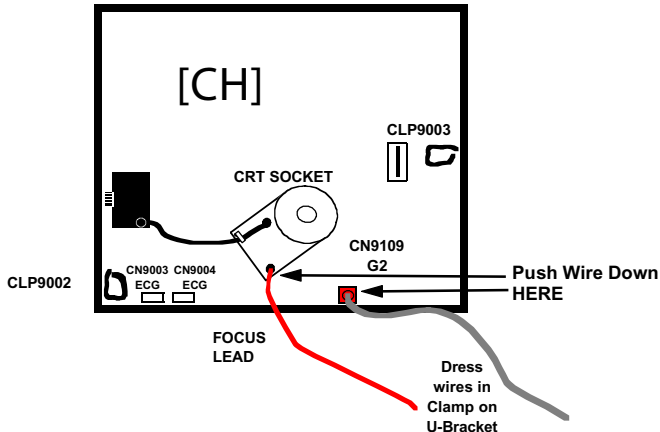
### BY BOARD WIRE DRESSING



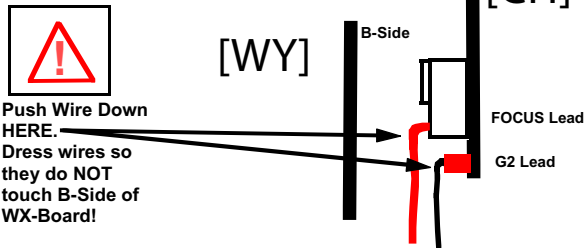
## G2 & FOCUS LEAD WIRE DRESSING

### CAUTION POINT

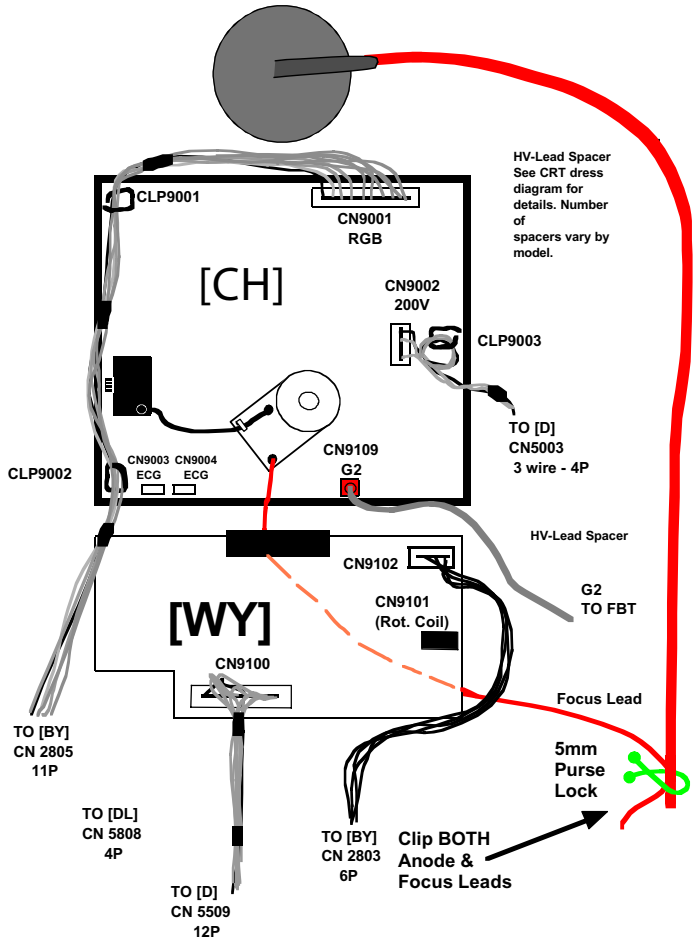
[CH] / [WY] / [HV]



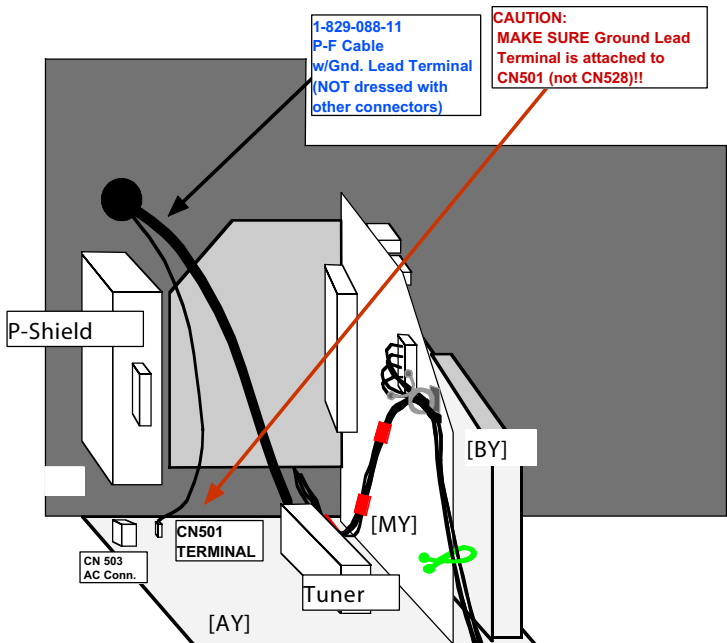
### SIDE VIEW



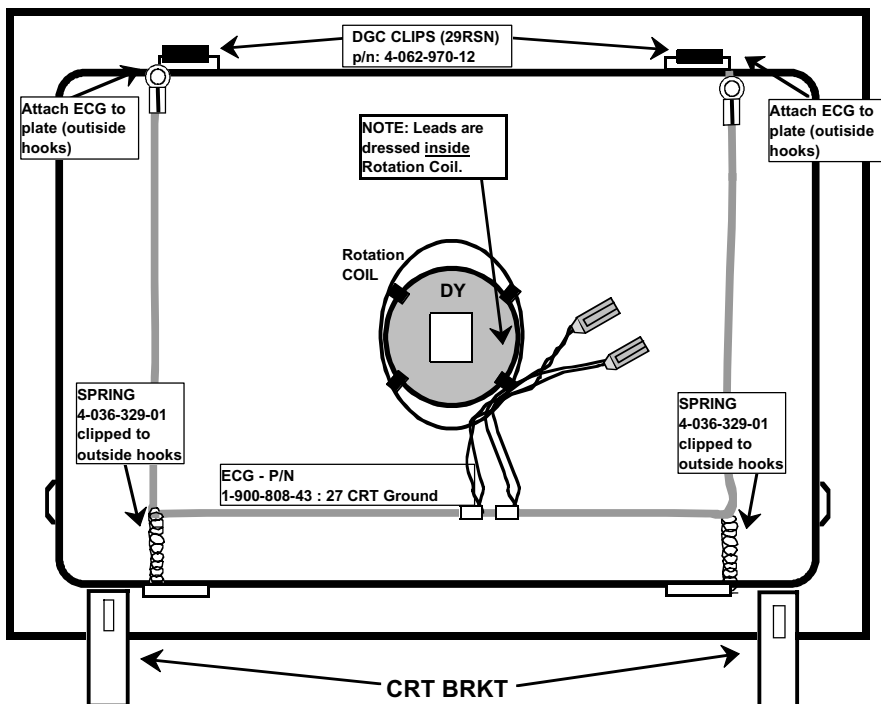
**BEFORE Installing CH-Board to CRT Neck  
PUSH down G2 Lead AND Focus Lead. The wires  
must NOT touch B-side of WY-Board!**



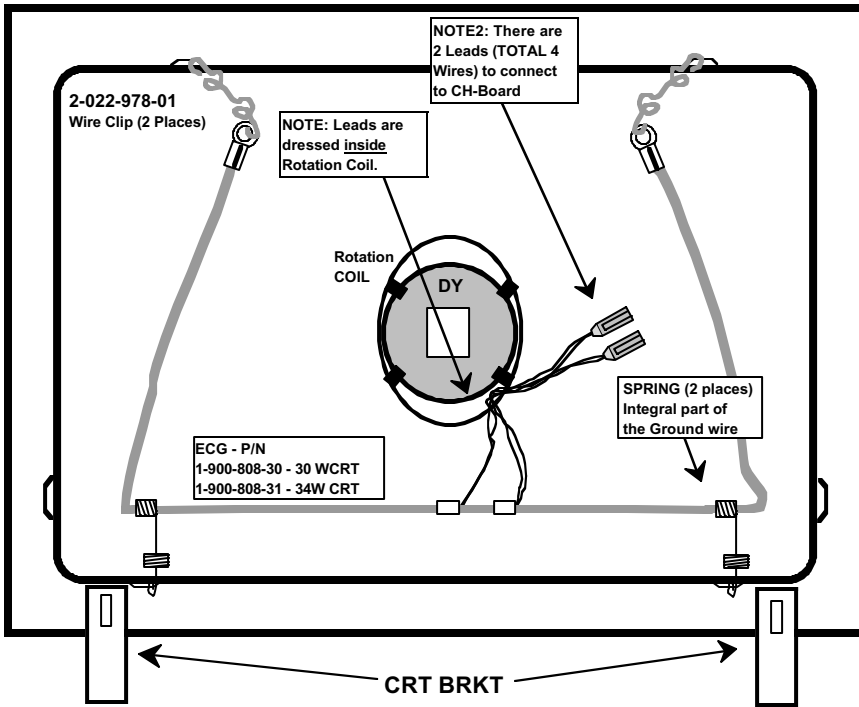
### F-PIN CABLE WIRE DRESSING



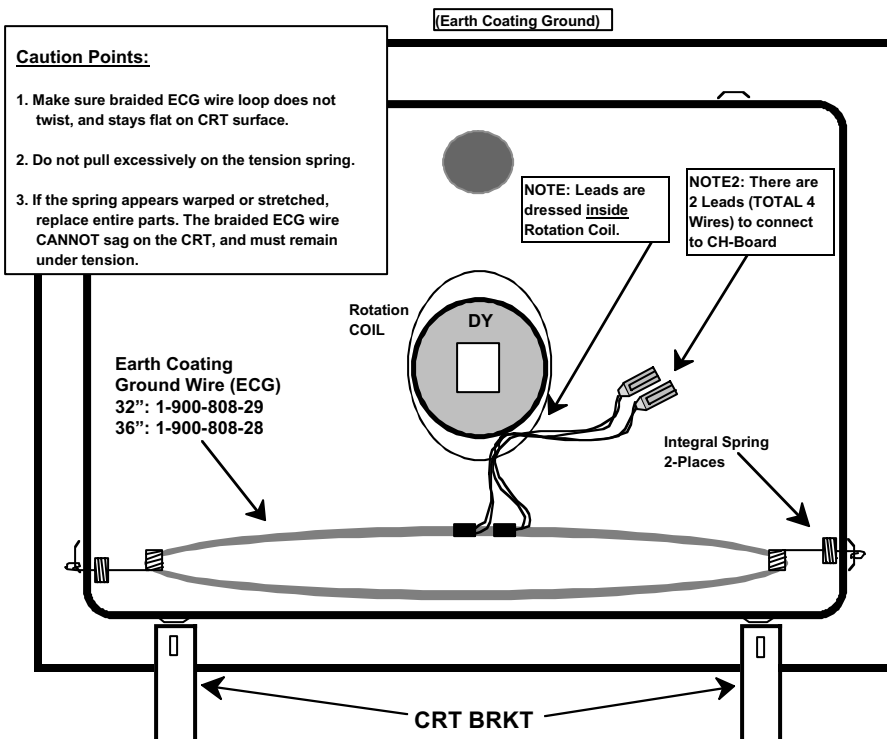
### ECG WIRE DRESSING (KV-27HS420 ONLY)



**ECG WIRE DRESSING (KV-30HS420/34HS420 ONLY)**




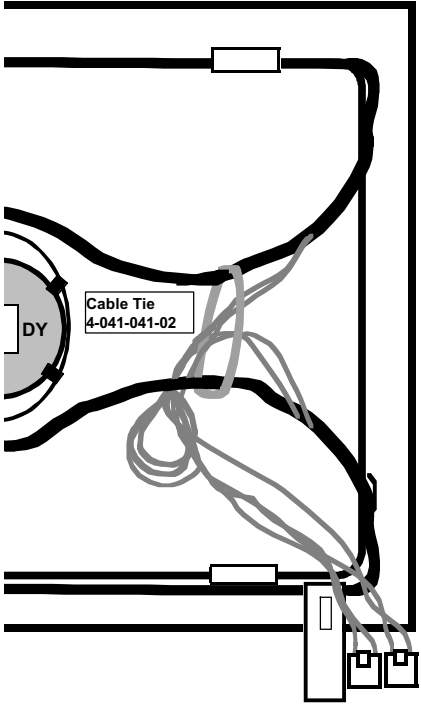
**ECG WIRE DRESSING (KV-32HS420/36HS420 ONLY)**



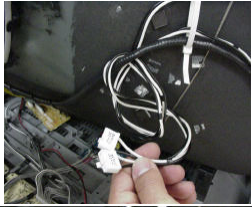
### DGC LEAD WIRE DRESSING (ALL EXCEPT KV-29DRC420)

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






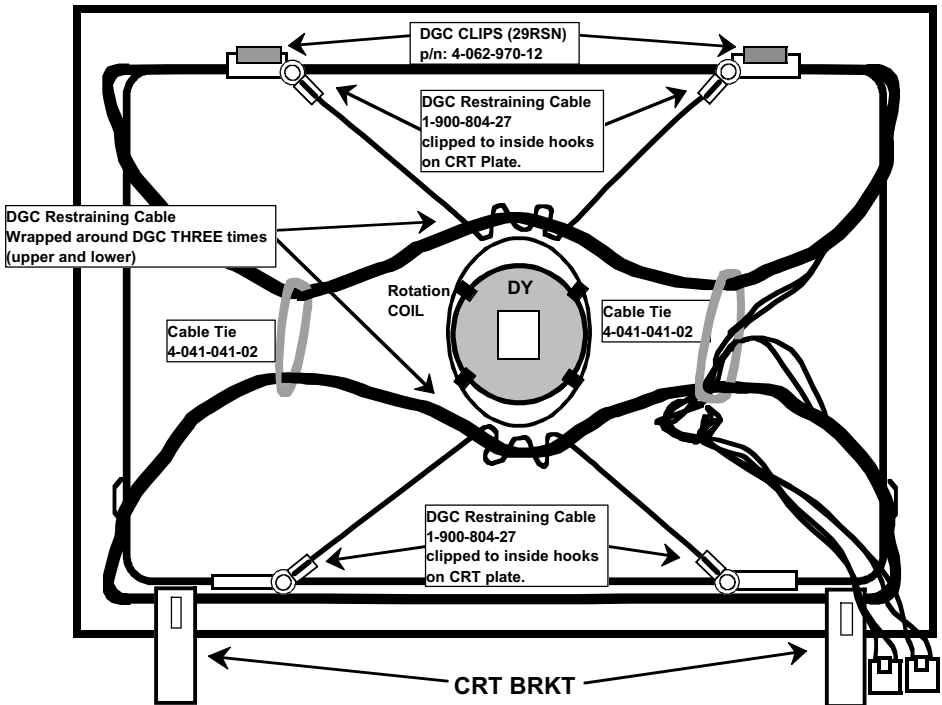
**STEP 2:**  
Thread both connector housings through the loop in lead wires.



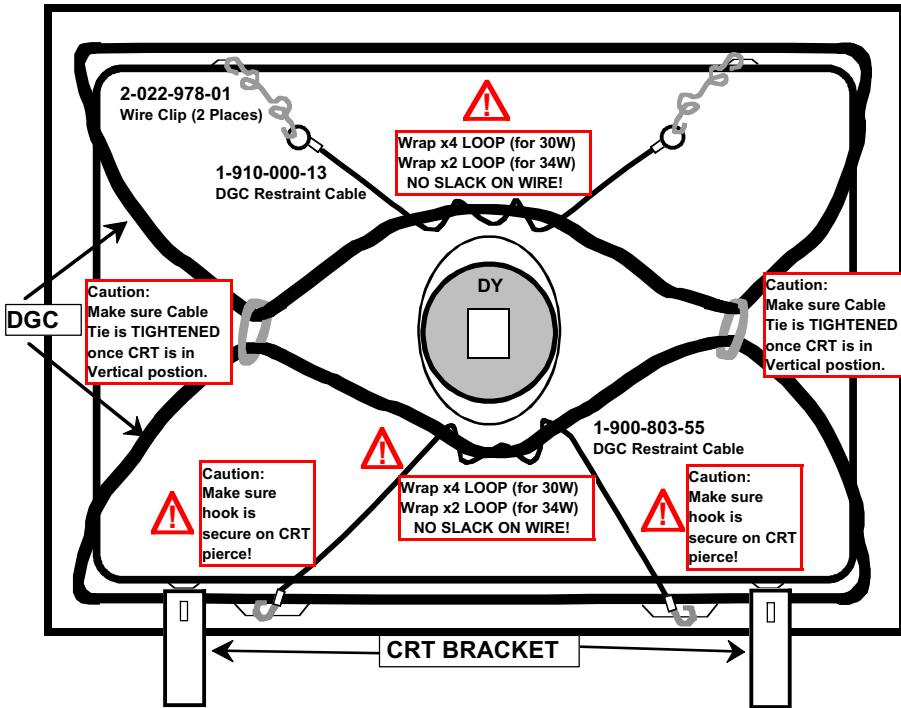
**STEP 3:**  
Plug in connector housings into the [AY] Board using the loop to take up slack.



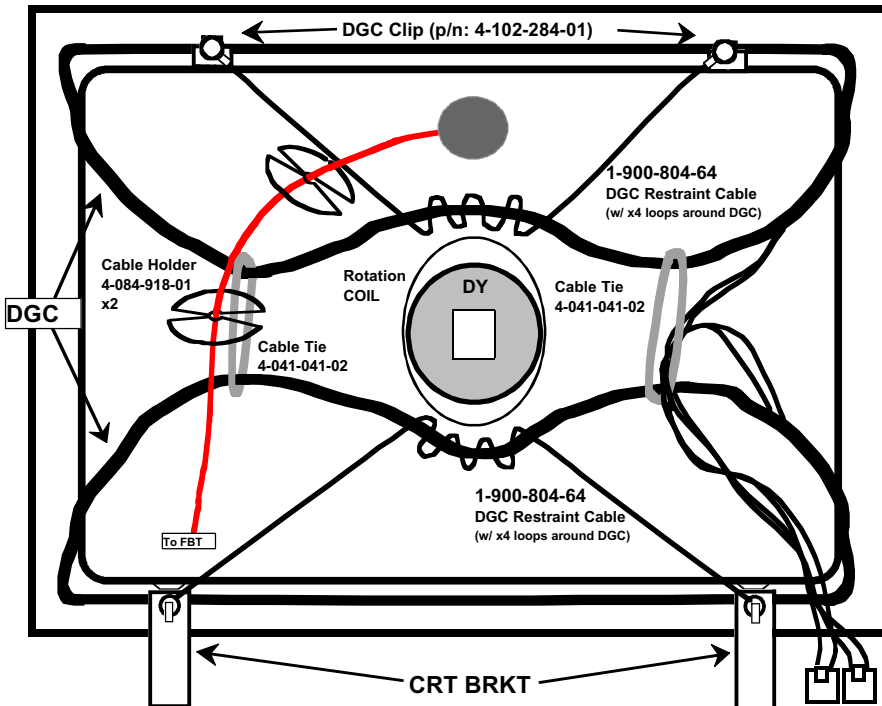
### DGC WIRE DRESSING (KV-27HS420 ONLY)



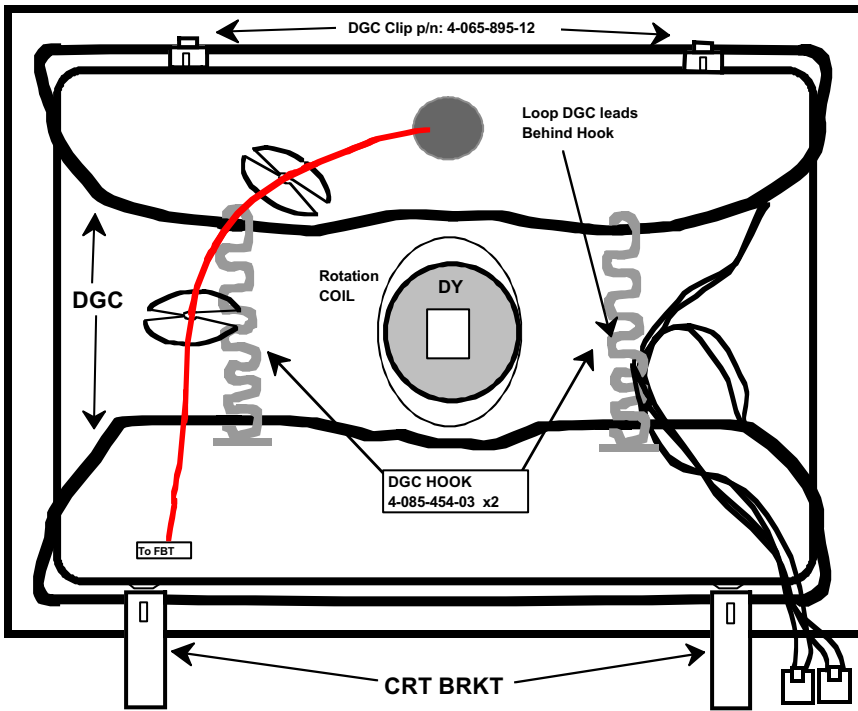
**DGC ASSEMBLY CAUTION POINT (KV-30HS420/34HS420 ONLY)**



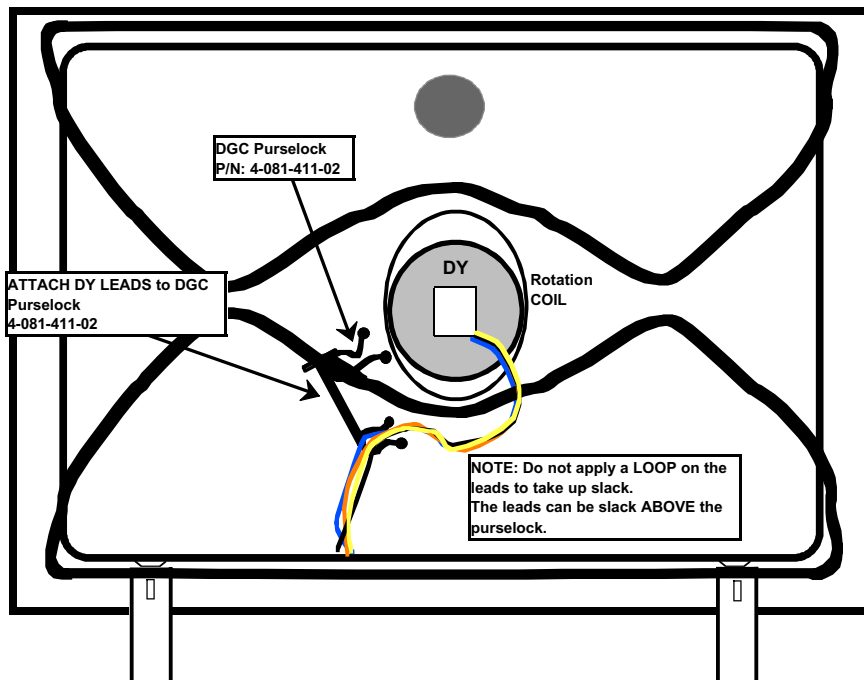
**CRT WIRE DRESSING (KV-32HS420 ONLY)**



**WIRE DRESSING (US/CND) (KV-36HS420 ONLY)**

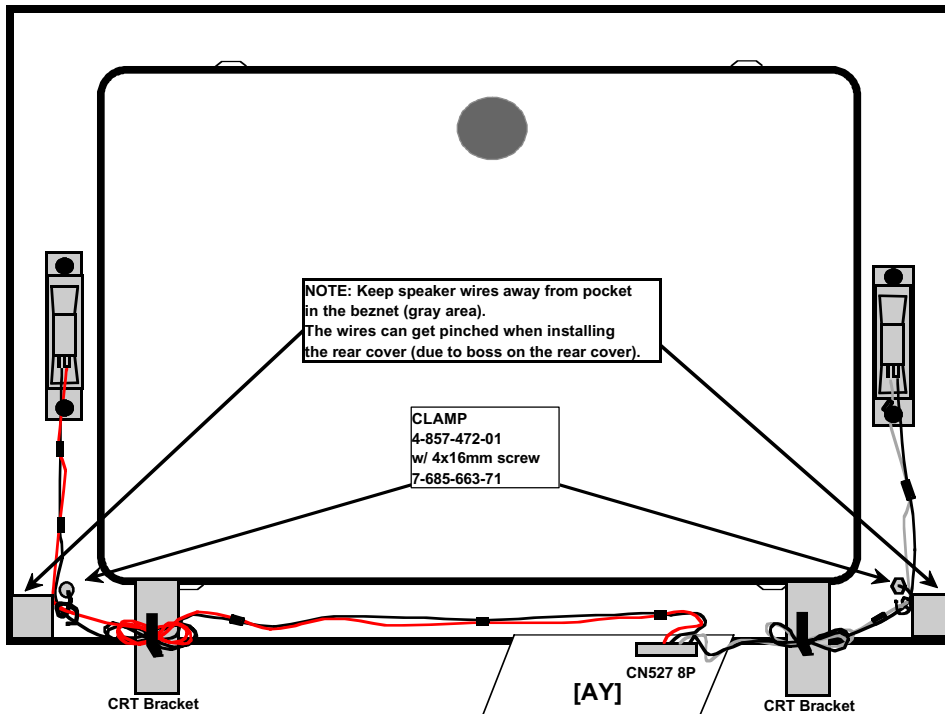


**DY LEAD DRESSING (ALL EXCEPT KV-29DRC420)**

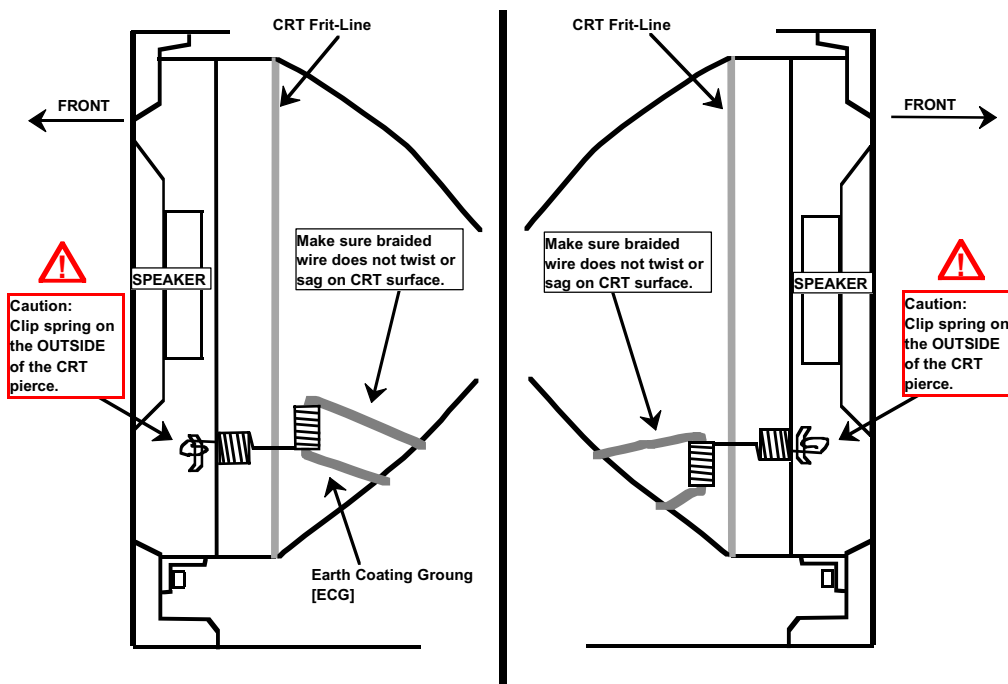




### SPEAKER ASSEMBLY WIRE DRESSING (ALL EXCEPT KV-29DRC420)



### ECG ASSEMBLY CAUTION POINT (ALL EXCEPT KV-29DRC420)



## 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

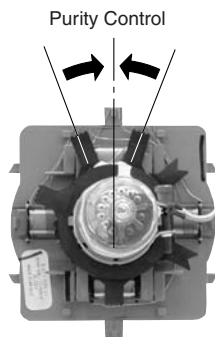
### 2-1.BEAM LANDING

#### Preparation:

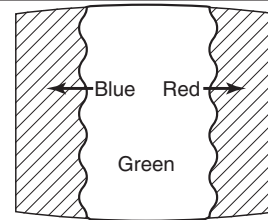
- Use cross hatch signal to rough adjust focus, G2 and then input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.
- CXA2170-D4 Confirm Focus data - See 2.4.1 Dynamic Focus/ Dynamic Quadrapole Data Table 1.
- CXA8070 (Should be set to default) - or unplug CN1 from DY. CXA8070 default (initial) data: (See 4-4. SERVICE DATA for the default data values for YBWU, YBWL, RSAP, RUBW, RUMB, RLBW, RLMB1, LSAP, LUBW, LUMB, LLBW, LLMB, CADJ, HVCA)
- CXA2170-D1, -D2 table default (initial) data: (See 4-4. SERVICE DATA for the default data values for VCEN, VPIN, HTPZ, HCNT, PPHA, VANG, VBOW, LBOV LANG)

**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:

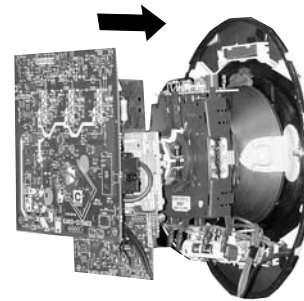


3. Input a green pattern from the pattern generator.
4. Move the deflection yoke backwards, (See Figure 1) and adjust with the purity control so that green is in the center and red and blue are even on both sides.

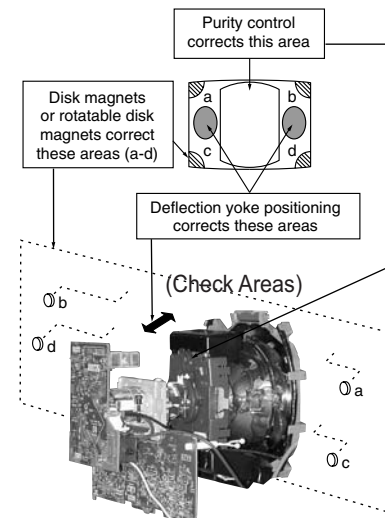


5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.

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. If landing at the corner is not right, adjust it by using the disk magnets.



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

### Preparation:

- Input a cross hatch pattern signal.
- 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's, adjust VPIN 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.

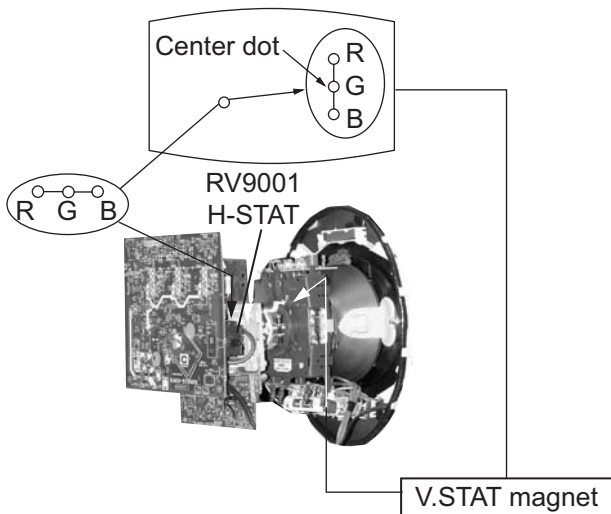
## 2-3.CONVERGENCE

### Preparation:

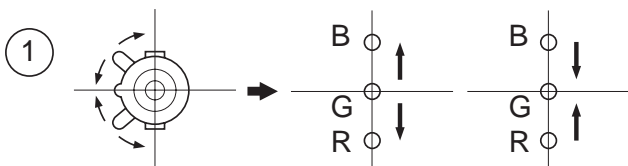
- Set the CONTRAST and BRIGHTNESS control to standard (reset).
- Input a cross hatch pattern signal.

### 2-3.1. 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 CH 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.



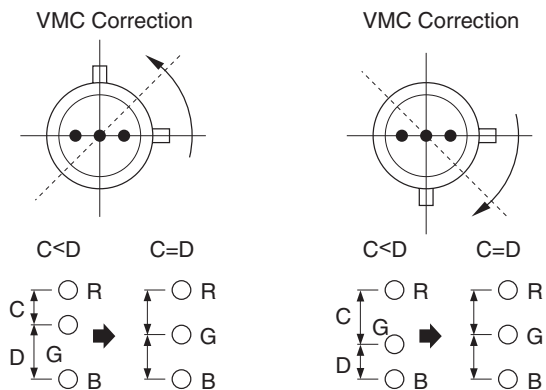
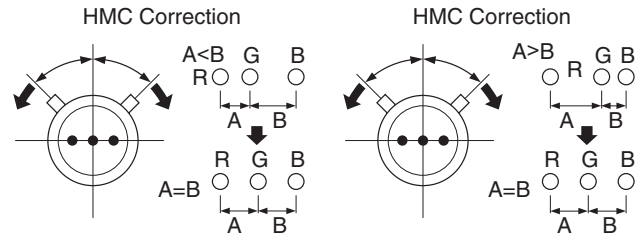
4. Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



### 2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

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

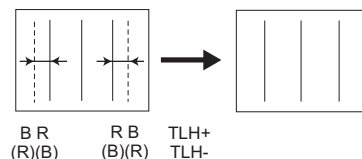
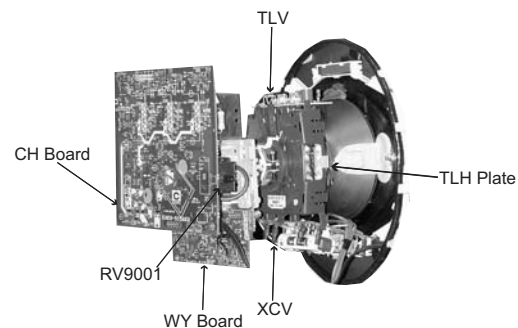
1. Use the BMC tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



### 2-3.3. 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.

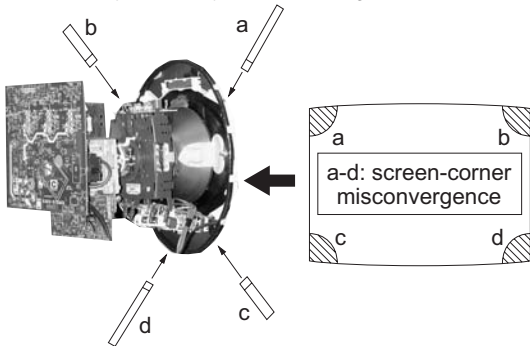
**Note:** Restore dynamic convergence when static convergence adjustments are complete.

### 2-3.4. SCREEN-CORNER CONVERGENCE

**Preparation:**

- Input a cross hatch pattern signal.

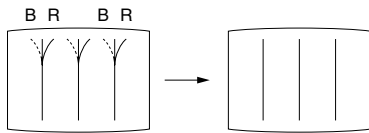
1. Affix a permalloy assembly corresponding to the misconverged areas.



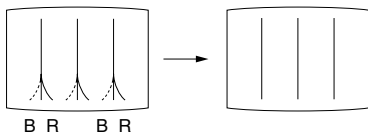
### 2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS

- 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.

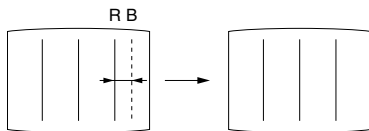
0. YBWU (Upper Y-BOW)



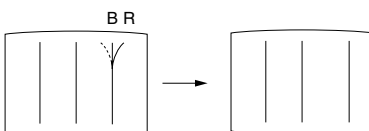
1. YBWL (Lower Y BOW)



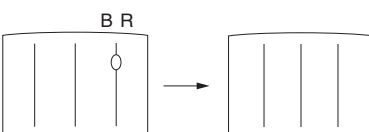
2. RSAP (Right H AMP)



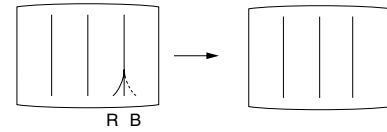
3. RUBW (Right Upper BOW)



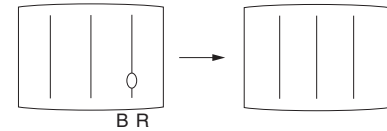
4. RUMB (Right Upper Middle BOW)



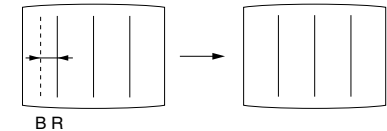
5. RLBW (Right Lower BOW)



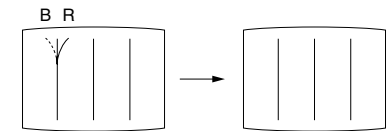
6. RLMB (Right Lower Middle BOW)



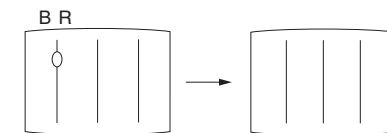
7. LSAP (Left H AMP)



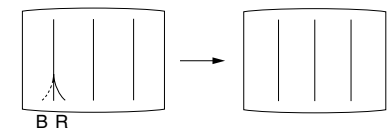
8. LUBW (Left Upper BOW)



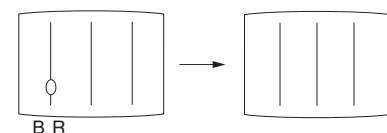
9. LUMB (Left Upper Middle BOW)



10. LLBW (Left Lower BOW)



11. LLMB (Left Lower Middle BOW)



12. CADJ Fix 29

## 2-4.FOCUS ADJUSTMENT

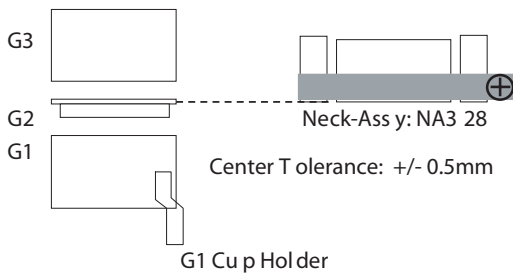
Confirm neck assembly Z axis position. (See Figure 1)

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.

### KV-32/34/36 HS420

CRT: 34RSN/36RV2/38RSN (NON-super-fine pitch and round fannel)

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



### KV-27/30 HS420

CRT: 29RSN/32RVE (NON-Super-Fine Pitch)

Neck Assy:NA2920 (VA-Type, Square pin assignment, VPIN harness)

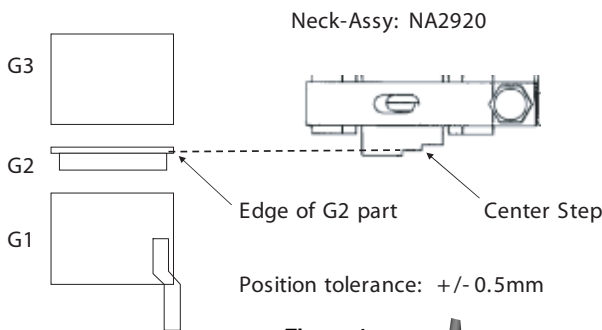
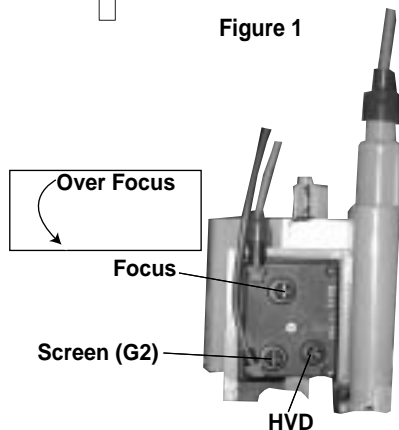
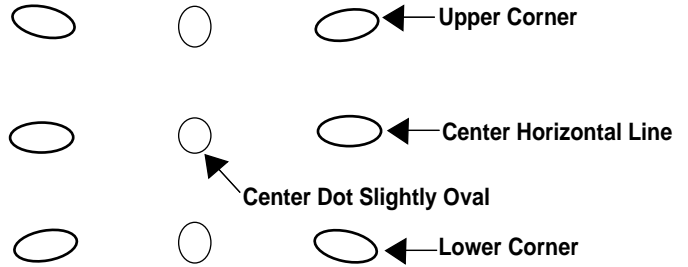


Figure 1



### 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:

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

|      | 27 | 30W | 32 | 34W | 36 |
|------|----|-----|----|-----|----|
| QPAM | 36 | 33  | 25 | 45  | 22 |
| QPAV | 44 | 46  | 40 | 47  | 40 |
| QPAP | 6  | 6   | 6  | 6   | 6  |
| QPDC | 22 | 29  | 17 | 42  | 17 |
| QPDV | 52 | 59  | 52 | 63  | 52 |
| QPDP | 6  | 6   | 6  | 6   | 6  |
| DF   | 36 | 40  | 36 | 36  | 36 |
| DQP  | 37 | 38  | 37 | 37  | 37 |

Table 1

## 2-5. SCREEN (G2)

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

| (Fig. 1)              | Opeartion Procedure  | Standards  | Notes                                |
|-----------------------|--|--|--------------------------------------|
| CXA2170P-2 PICO 1-> 0 | <ol style="list-style-type: none"> <li>1) In Full mode, apply changes in Fig. 1</li> <li>2) Mount G2 adjustment jig. Adjust Cathode voltage if the standard is not met. Standard varies by CRT size.</li> <li>3) Adjust G2 by Flyback transformer (T8001).</li> <li>4) Return data changes in 1) to original condition.</li> </ol> | 170 +/- 5 (V <sub>DC</sub> )<br>175 +/- 5 (V <sub>DC</sub> ) | 29RSN, 32RVEN<br>34RSN, 36RV2, 38RSN |

## 2-6. PICTURE QUALITY ADJUSTMENTS

### Preparation:

- Set PRO MODE (Reset).

1. Input signal (480i Composite):
  - Color Bar Video 75 IRE (White) 75% modulation 7.5% Set-up.
  - Color Bar RF 75 IRE (White) 75% modulation 7.5% Set-up.

### 2-6.1. VIDEO INPUT - SUB CONTRAST ADJUSTMENT

#### Preparation:

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

1. Set to Service Mode and adjust as follows:

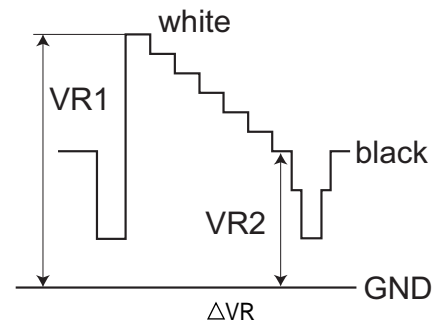
#### 2170P-2

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

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

#### 2103-1

| NO. | Name | Control Function |
|-----|------|------------------|
| 02  | SCON | SUB-CONT         |



- (27HS/29DRC) =  $1.84 \pm 0.05$  Vpp
- (30HS) =  $1.92 \pm 0.05$  Vpp
- (32HS) =  $1.92 \pm 0.05$  Vpp
- (34HS) =  $1.92 \pm 0.05$  Vpp
- (36HS) =  $2.00 \pm 0.05$  Vpp

4. Write data from Step 3 above, into memory.

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

Preparation:

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

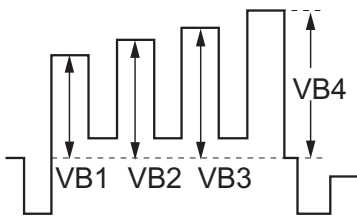
### 2170P-2

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

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

### 2103-1

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



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

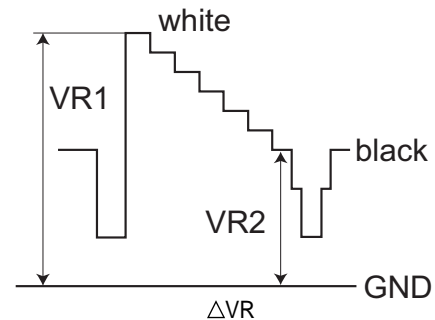
### 2170P-2

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

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

### 2103-1

| NO. | Name | Control Function |
|-----|------|------------------|
| 02  | SCON | SUB-CONT         |



$\Delta VR$   
 (27HS/29DRC) =  $1.84 \pm 0.05 \text{ Vpp}$   
 (30HS) =  $1.92 \pm 0.05 \text{ Vpp}$   
 (32HS) =  $1.92 \pm 0.05 \text{ Vpp}$   
 (34HS) =  $1.92 \pm 0.05 \text{ Vpp}$   
 (36HS) =  $2.00 \pm 0.05 \text{ Vpp}$

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:

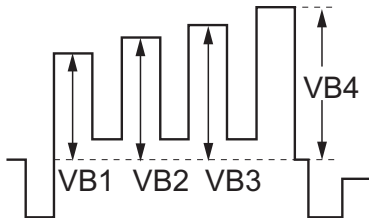
#### 2170P-4

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

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

#### 2103-1

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



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

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) ( PRO MODE Reset)
- Picture: Max
- Color: Min

| WHITE BALANCE ADJUSTMENT PROCEDURE (Composite White Field Signal into Video 1) |  |   |   |  |
|--|--|---|---|--|
| Specification  | Old Calibration<br>Highlight/Cutoff<br>9300K + 8MPCD<br>(R/G 1.000, B/G 1.000)           |   | R/G   | B/G  |
|  | New Calibration<br>Highlight/Cutoff<br>10,900K + 2MPCD<br>(R/G 1.007, B/G 1.139)         | WB701<br>Preset                           | 29RSN/29RSEN<br>32RVE/32RV<br>34RSN<br>36RV2<br>38RSN | .790<br>.903<br>.775<br>.915<br>.689<br>.883<br>.745<br>.905<br>.679<br>.872 |
| Condition  | Picture Mode: Single (Full)<br>Picture Setting: Pro                                      | Adjustment<br>Registers<br>(Service Mode) | RDRV (fixed)**  | 2170P-1-06   |
|  | Color Temp: Neutral<br>Picture: 63 write to 86h:01h:FFh<br>Color: 0 write to 86h:03h:00h |   | GDRV<br>BDRV<br>RCUT fixed)**<br>GCUT<br>BCUT         | 2170P-1-0<br>2170P-1-08<br>2170P-1-09<br>2170P-1-10<br>2170P-1-11            |
| ** Data will differ by model   |  |   |   |  |

### 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 | CB0F (FROM VIDEO 5) + 3 |
| 4   | CROF | CR0F (FROM VIDEO 5) - 4 |



## 2-8.H RASTER CENTER ADJUSTMENT

### Preparation:

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

1. Set to Service Mode and adjust as follows:

#### CXA2170P-2

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

#### CXA2170D-2

| NO. | Name | Control Function | Avg. Data |
|-----|------|------------------|-----------|
| 01  | HPOS | Horiz Position   | 34        |
| 02  | HSIZ | Horiz Size       | 34        |

#### 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:

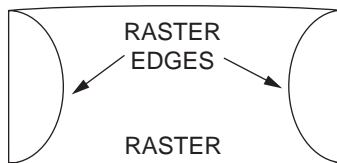


Figure A

## 2-9.PICTURE DISTORTION ADJUSTMENTS

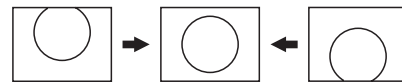
### 2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

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 these two signals to balance the best condition between the two.  
Use the CXA2170-D1 and -D2 adjustable data items shown here.
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. Keep LANG and LBOW data between 5 and 58.
9. Finish with UCP, LCP, PPHA, PIN adjustments. Check SLIN, MPIN.
10. Adjust for correct HSIZ and HPOS and write the data before changing modes.

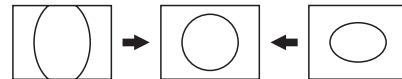
**Note:** Make sure that the picture size is within specs. Vertical size is  $11.8 \pm 0.1$  sq. and horizontal size is  $15.8 \pm 0.1$  sq.

#### CXA2170D-1

- Item 0. VPOS (V-POSITION)



- Item 1. VSIZ (V-SIZE)



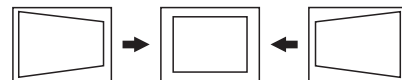
- Item 3. VLIN (V-LINEARITY)



- Item 4. VSCO (V S-CORRECTION)

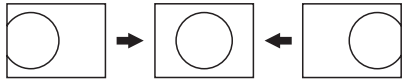


- Item 9. HTPZ (H-TRAPEZOID)

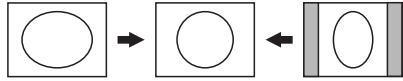


**CXA2170D-2**

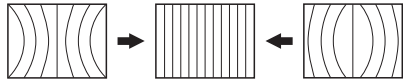
Item 1. HPOS (H-POSITION)



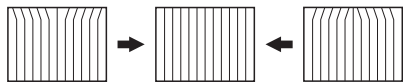
Item 2. HSIZ (H-SIZE)



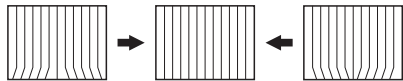
Item 5. PIN (PIN AMP)



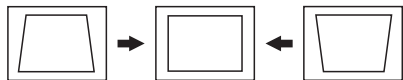
Item 7. UCP (UP COR PIN COR)



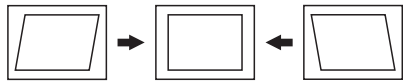
Item 8. LCP (LOW CO PIN COR)



Item 14. PPHA (PIN PHASE)



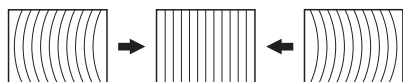
Item 15. VANG (AFC-ANGLE)



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  $11.7 \pm 0.1$  sq. and horizontal size is  $15.6 \pm 0.1$  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 as in Full mode above as necessary, being careful to balance any shared data effect between modes.
5. Repeat 3-4 for IDSW set to 3 (VC 1080i). Write the data before changing modes.
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 DZ Board

#### 3-1.1 HOLD-DOWN OPERATION CONFIRMATION

- Using an external DC power supply, apply  $5.3 \pm 0.5$  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 DZ Board

#### 3-3. B+ VOLTAGE CHECK

Standard:..... 135.3 ± 1 VDC

Measurement point:

CN5509 pin (9) for B+ of [DZ] board

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

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

#### 3-4. HIGH VOLTAGE (HV) CHECK

Standard:..... 30.5 ± 0.5 kV  
(KV-27HS420/29DRC420/30HS420 only)

Standard:..... 31.5 ± 0.5 kV  
(KV-32HS420/34HS420/36HS420 only)

Measurement point:..... Anode of CRT

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

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

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

### 3-5. PREPARATION FOR HV AND IK PROTECTOR CHECK

- Remove DZ 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 AY board.  
(Alternately, open AY - DZ 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 MY board connection CN2304 pin 1 to CN509 pin 1 to inject 5V to ABL line. (Alternately, use STBY 5V, IC501 Pin O on AY board)
- Unsolder CN5009 pin 8 (H-prot).
- Open ABL pin 1 of T8001 (RHT) on DZ 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  $34.4 \pm 0.15$  kV (KV-27HS420/29DRC420/30HS420 only) or  $35.2 \pm 0.15$  kV (KV-32HS420/34HS420/36HS420 only) by precision VR1 jig.  
**Note:** If the picture turns bright red or other color and the set shuts down, place a 10 MΩ resistor on the CH board between G2 and E2 pins on the socket. Confirm G2 adjustment before returning set to production.
- Remove short from C8002 and confirm that hold down activates.
- Short C8002 again and confirm that HV recovers.
- Re-adjust HV to obtain  $31.5 \pm 0.2$  kV (KV-27HS420/29DRC420/30HS420 only) or  $32.5 \pm 0.2$  kV (KV-32HS420/34HS420/36HS420 only) 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 **33.6 ± 0.15kV** (KV-27HS420/29DRC420/30HS420 only) or **34.5 ± 0.15kV** (KV-32HS420/34HS420/36HS420 only) 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 **31.2 ± 0.2 kV** (KV-27HS420/29DRC420/30HS420 only) or **32.2 ± 0.2 kV** (KV-32HS420/34HS420/36HS420 only) 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 DZ 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.

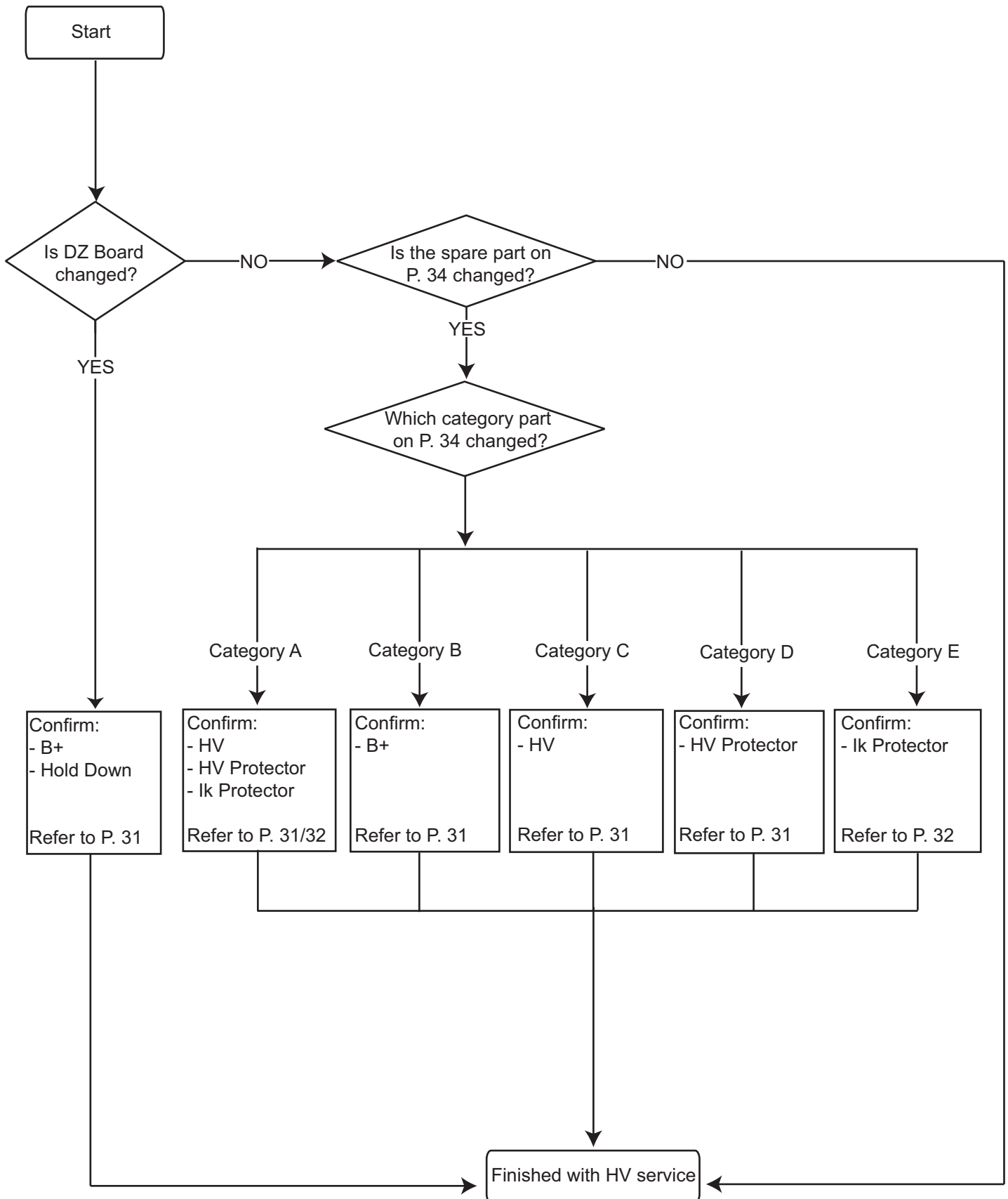
### 3-8.HOLD DOWN CHECK

1. Using an external DC power supply, apply  $5.3 + 0.5 Vdc$  between Pin 2 of CN507 (jig connector) and ground (Pin 8) on AY 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 AY-DZ connections. (Or as applicable, restore AY-DZ 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 MY board connection CN2304 pin 1 to CN509 pin 1.
3. Remove current meter from ABL pin and restore ABL pin connection.
4. Replace all DZ board screws and restore user menu settings to reset condition.

## 3-10.HV SERVICE FLOWCHART



**HV SERVICE FLOWCHART TABLE**

| <b>Ref. #</b> | <b>Category</b> |
|---------------|-----------------|
| 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-Y197) to perform the circuit adjustments in this section.

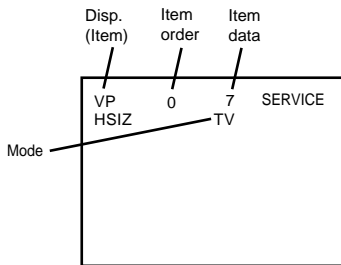
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

#### 4-1. SETTING SERVICE ADJUSTMENT MODE

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

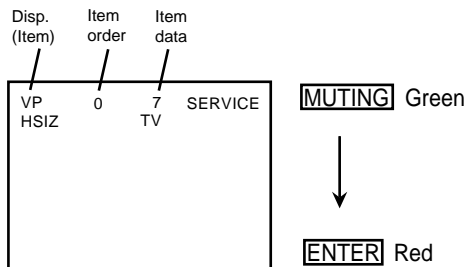
**DISPLAY** → Channel **5** → Sound Volume **4** → Power

##### 4-1.1. SERVICE ADJUSTMENT MODE IN

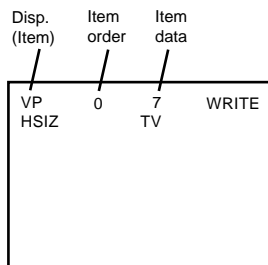


- The CRT displays the item being adjusted.
- Press **1** or **2** on the Remote Commander to select the item.
- Press **3** or **6** on the Remote Commander to change the data.
- Press **MUTING** then **ENTER** to write into memory.

##### 4-1.2. SERVICE ADJUSTMENT MODE MEMORY



- Press **8** on the Remote Commander to initialize.



- DO NOT turn off set until SERVICE appears.

#### 4-1.3. READING THE MEMORY

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

#### 4-1.4. ADJUSTING THE PICTURE

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

#### 4-1.5. 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:

##### 4-1.6. RESETTING THE MID NVM DATA

- Enter into Service Mode.
- Press **7**, then **JUMP**, and then press **ENTER** on the remote.

##### 4-1.7. RESETTING THE SYSTEM NVM DATA

- Enter into Service Mode. This resets DEFL adjust and video white balance.
- Press **7**, then **9**, and then press **ENTER** on the remote.

#### 4-1.8. 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.

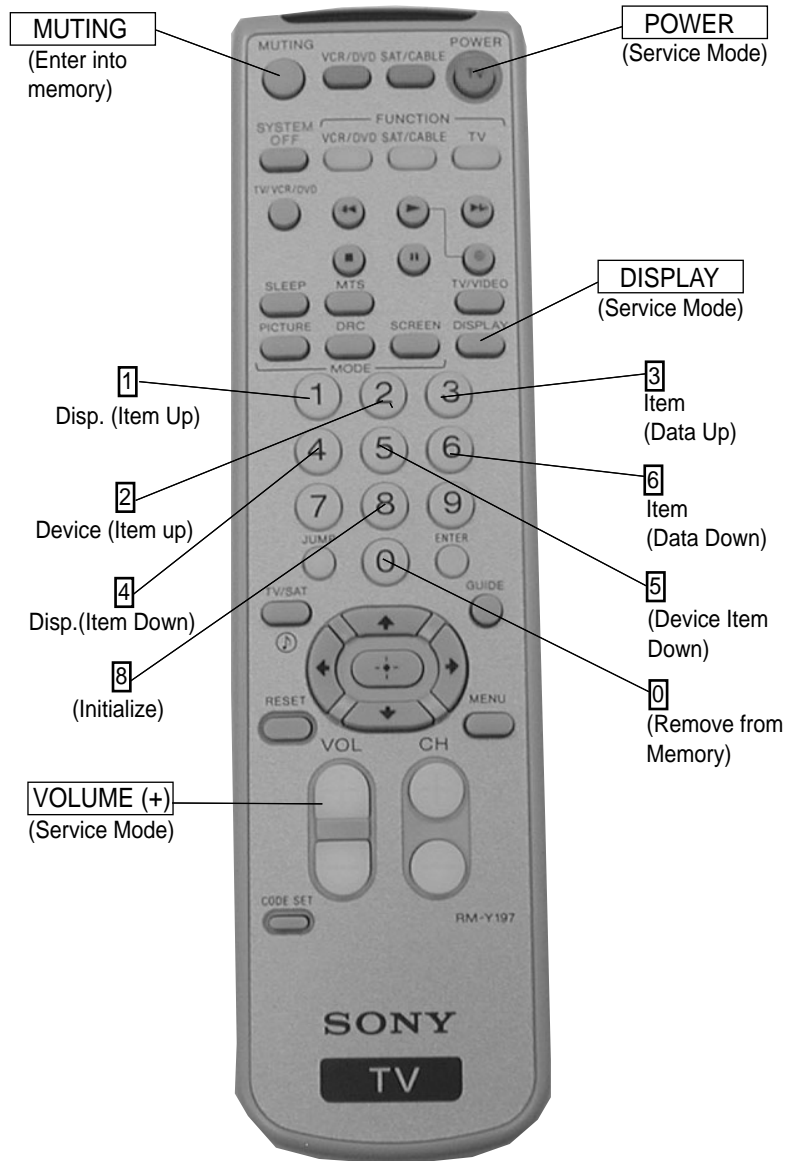
**WARNING:** DO NOT copy data before writing your corrected data in NVM. If data is copied before writing corrected data, old data will be copied.

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

## 4-2.MEMORY WRITE CONFIRMATION METHOD

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

## 4-3.REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y197



## 4-4.SERVICE DATA

| Category | No    | Item  | Range | *NOT be memorized |  |    |          |    |        |    |        |           |
|----------|-------|-------|-------|-------------------|--|----|----------|----|--------|----|--------|-----------|
| 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   | 0 *               |  |    |          |    |        |    |        |           |
|          | 6     | EXCS  | 0-3   | 1                 |  |    |          |    |        |    |        |           |
|          | 7     | CDL   | 0-7   | 4                 |  |    |          |    |        |    |        |           |
|          |       |       |       |                   | <b>Note:</b><br>Item * uses the fixed setting in normal TV operations.<br>{Its setting can be changed for testing in Service mode only.<br>But the change will not be memorized after leaving Service mode.} |    |          |    |        |    |        |           |
|          |       |       |       |                   | 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    |           |
|          |       |       |       |                   | RF   |    | CV/YC    |    | RF     |    | CV/YC  |           |
|          | 17    | YPFT  | 0-3   | 3                 |  | 3  |          | 3  |        | 3  |        | Twin<br>3 |
|          | 18    | YPFG  | 0-15  | 9                 |  | 5  |          | 7  |        | 5  |        | 6         |
| 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 *   |                   |  |    |          |    |        |    |        |           |

| Category | No   | Item | Range        | *NOT be memorized     |               |               |                    |                    |
|----------|------|------|--------------|-----------------------|---------------|---------------|--------------------|--------------------|
| 2103-1   |      |      |              | <b>V5/V6<br/>HDMI</b> | <b>Others</b> |               |                    |                    |
|          | 0    | YLEV | 0-62         | 34                    | 20            |               |                    |                    |
|          | 1    | CLEV | 0-63         | 40                    | 17            |               |                    |                    |
|          |      |      |              | <b>RF</b>             | <b>CV/YC</b>  |               |                    |                    |
|          | 2    | SCON | 0-15         | 9                     | 9             |               |                    |                    |
|          | 3    | SCOL | 0-15         | 2                     | 2             |               |                    |                    |
|          | 4    | SHUE | 0-15         | 11                    | 5             |               |                    |                    |
|          | 5    | YDLY | 0-3          | 0                     | 0             |               |                    |                    |
|          |      |      |              | <b>RF</b>             | <b>CV/YC</b>  | <b>V5/V6</b>  | <b>HDMI</b>        | <b>MemoryStick</b> |
|          | 6    | SHAP | 0-15         | 6                     | 8             | 4             | 8                  | 8                  |
|          | 7    | SHF0 | 0-3          | 0                     | 0             | 3             | 0                  | 0                  |
|          | 8    | PRE0 | 0-3          | 3                     | 3             | 3             | 3                  | 3                  |
|          | 9    | BPF0 | 0-3          | 3                     |               |               |                    |                    |
|          | 10   | BPFQ | 0-3          | 2                     |               |               |                    |                    |
|          |      |      |              | <b>RF</b>             | <b>CV/YC</b>  |               |                    |                    |
|          | 11   | BPSW | 0,1          | 1                     | 0             |               |                    |                    |
|          | 12   | TRAP | 0,1          | 0                     |               |               |                    |                    |
|          | 13   | LPF  | 0,1          | 1                     |               |               |                    |                    |
|          |      |      |              | <b>RF</b>             | <b>CV/YC</b>  | <b>Others</b> |                    |                    |
|          | 14   | AFCG | 0,1          | 1                     | 0             | 0             |                    |                    |
|          | 15   | CDMD | 0-3          | 3                     | 3             | 3             |                    |                    |
| 16       | SSMD | 0-3  | 0            | 0                     | 0             |               |                    |                    |
|          |      |      | <b>RF</b>    | <b>CV/YC</b>          | <b>V5/V6</b>  | <b>HDMI</b>   | <b>MemoryStick</b> |                    |
| 17       | HMSK | 0,1  | 0            | 1                     | 1             | 0             | 0                  |                    |
| 18       | HALI | 0,1  | 0            |                       |               |               |                    |                    |
|          |      |      | <b>RF</b>    | <b>CV/YC</b>          | <b>V5/V6</b>  | <b>HDMI</b>   | <b>MemoryStick</b> |                    |
| 19       | PPHA | 0-15 | 7            | 7                     | 7             | 7             | 7                  |                    |
|          |      |      | <b>V5/V6</b> | <b>MemoryStick</b>    | <b>Others</b> |               |                    |                    |
| 20       | CBO1 | 0-63 | 36           | 32                    | 34            |               |                    |                    |
| 21       | CRO1 | 0-63 | 38           | 32                    | 32            |               |                    |                    |

| Category | No   | Item  | Range | *NOT be memorized |       |  |              |   |  |          |      |       |              |    |
|----------|------|-------|-------|-------------------|-------|--|--------------|---|--|----------|------|-------|--------------|----|
| 2103-1   |      |       |       | V5/V6 HDMI        |       |  |              | Others                                  |  |          |      |       |              |    |
|          | 22   | CBO2  | 0-63  | 32                |       |  |              |   |  |          |      |       |              |    |
|          | 23   | CRO2  | 0-63  | 32                |       |  |              |   |  |          |      |       |              |    |
|          |      |       |       | Single            | BLK=0 | BLK=1  | BLK=2        | BLK=3                                   | Notes:   |          |      |       |              |    |
|          | 24   | ATPD  | 0-3   | 0                 | 1     | 1  | 2            | 1                                       | Settings applied to CXA2103 (M&S), if applied. |          |      |       |              |    |
| 25       | DCTR | 0-3   | 0     | 2                 | 1     | 3  | 2            | Settings also based on 2170P-4/BLK data |  |          |      |       |              |    |
| 2170P-1  |      |       |       | DRC               |       | HDMI   | Memory Stick | Comp / PT                               |  |          |      |       |              |    |
|          | 0    | YOSW  | 0,1   | CV/YC             | 480i  |  |              |   | 1  | 0        | 0    | 0     |              |    |
|          | 1    | TCOF* | 0,1   | 0 *               |       |  |              |   |  |          |      |       |              |    |
|          |      |       |       | DRC               | V5/V6 |  |              |   | HDMI   |          |      |       | Memory Stick | PT |
|          |      |       |       | RF/CV/YC          | 480i  | 480p   | 720p         | 1080i                                   | 480i   | 480p/VGA | 720p | 1080i |              |    |
|          | 2    | YOF   | 0-15  | 0                 | 7     | 7  | 7            | 7                                       | 7  | 0        | 7    | 7     | 7            | 7  |
|          | 3    | CBOF  | 0-63  | 31                | 31    | 46   | 51           | 49                                      | 31   | 40       | 31   | 31    | 38           | 38 |
|          | 4    | CROF  | 0-63  | 31                | 31    | 45   | 51           | 48                                      | 31   | 40       | 31   | 31    | 34           | 34 |
|          |      |       |       | ColorTemp         |       |  |              |   |  |          |      |       |              |    |
|          |      |       |       | Neutral           |       |  |              |   |  |          |      |       |              |    |
|          | 5    | SBRT  | 0-63  | 31                |       |  |              |   |  |          |      |       |              |    |
|          | 6    | RDRV  | 0-63  | 45                |       |  |              |   |  |          |      |       |              |    |
|          | 7    | GDRV  | 0-63  | 35                |       |  |              |   |  |          |      |       |              |    |
|          | 8    | BDRV  | 0-63  | 34                |       |  |              |   |  |          |      |       |              |    |
|          | 9    | RCUT  | 0-63  | 41                |       |  |              |   |  |          |      |       |              |    |
|          | 10   | GCUT  | 0-63  | 32                |       |  |              |   |  |          |      |       |              |    |
|          | 11   | BCUT  | 0-63  | 35                |       |  |              |   |  |          |      |       |              |    |
|          |      |       |       | Color Temp        |       |  |              |   |  |          |      |       |              |    |
|          |      |       |       | Cool              | Warm  | Note:<br>The WBSW setting in Warm can be memorized in NVM. |              |   |  |          |      |       |              |    |
| 12       | WBSW | 0,1   | 0     | Service Data *    |       |  |              |   |  |          |      |       |              |    |
| 13       | SBOF | 0-15  | 7     | 7                 |       |  |              |   |  |          |      |       |              |    |
| 14       | RDOF | 0-63  | 31    | 31                |       |  |              |   |  |          |      |       |              |    |
| 15       | GDOF | 0-63  | 31    | 34                |       |  |              |   |  |          |      |       |              |    |
| 16       | BDOF | 0-63  | 34    | 45                |       |  |              |   |  |          |      |       |              |    |
| 17       | RCOF | 0-63  | 31    | 31                |       |  |              |   |  |          |      |       |              |    |
| 18       | GCOF | 0-63  | 31    | 37                |       |  |              |   |  |          |      |       |              |    |
| 19       | BCOF | 0-63  | 34    | 63                |       |  |              |   |  |          |      |       |              |    |

| Category | No   | Item  | Range | *NOT be memorized |              |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|----------|------|-------|-------|-------------------|--------------|-----------|--------------|-----------|-------|------|------|------|-----|--------------|------|------|----------------------------|------------|
| 2170P-1  |      |       |       | DRC               |              | HDMI      | Memory Stick | Comp / PT |       |      |      |      |     |              |      |      |                            |            |
|          | 20   | DCOL  | 0-3   | CV/YC             | 480i         |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          |      |       |       | 3                 |              |           |              |           |       |      |      |      |     |              |      |      |                            |            |
| 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        | PT        |              |           |       |      |      |      |     |              |      |      |                            |            |
|          | 7    | CLPP  | 0-3   | 3                 | 3            |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          | 8    | CLPG  | 0,1   | 0                 | 0            |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          | 9    | CLPS  | 0,1   | 0                 | 0            |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          | 10   | PPAD  | 0-7   | 3                 | 3            |           |              |           |       |      |      |      |     |              |      |      |                            |            |
| 11       | SYNP | 0,1   | 0     | 0                 |              |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          |      |       |       |                   |              |           |              |           |       |      |      |      |     |              |      |      |                            |            |
| 12       | HVBT | 0,1   | 0     |                   |              |           |              |           |       |      |      |      |     |              |      |      |                            |            |
| 2170P-3  |      |       |       | Vivid             | RF           | CV/YC     | V5/V6        |           |       |      | HDMI |      |     | Memory Stick |      | Twin |                            |            |
|          | 0    | SYSM  | 0-3   |                   | 1            | 1         | 480i         | 480p      | 1080i | 720p | 480i | 480p | VGA | 1080i        | 720p |      | Slide Show / Still Picture | Menu Index |
|          | 1    | VMLV* | 0-15  |                   | 7 *          |           |              |           |       |      |      |      |     |              |      |      |                            |            |
|          | 2    | VMCR  | 0-3   |                   | 1            | 0         | 0            | 0         | 0     | 0    | 0    | 0    | 0   | 0            | 0    | 0    | 0                          | 3          |
|          | 3    | VMLM  | 0-3   |                   | 3            | 3         | 3            | 3         | 3     | 3    | 3    | 3    | 3   | 3            | 3    | 3    | 3                          | 3          |
|          | 4    | VMF0  | 0-3   |                   | 1            | 1         | 1            | 1         | 0     | 0    | 1    | 1    | 1   | 0            | 0    | 1    | 1                          | 0          |
|          | 5    | VMDL  | 0-15  |                   | 5            | 5         | 5            | 5         | 13    | 13   | 5    | 5    | 5   | 13           | 13   | 1    | 1                          | 10         |
|          | 6    | SHOF  | 0-3   |                   | 2            | 2         | 2            | 1         | 1     | 1    | 2    | 1    | 0   | 1            | 1    | 2    | 2                          | 2          |
|          | 7    | SHF0  | 0,1   |                   | 1            | 1         | 1            | 1         | 1     | 1    | 1    | 1    | 1   | 1            | 1    | 1    | 1                          | 1          |
|          | 8    | PROV  | 0-3   |                   | 0            | 3         | 2            | 0         | 3     | 3    | 2    | 0    | 0   | 3            | 3    | 3    | 3                          | 3          |
| 9        | F1LV | 0-3   | 1     | 0                 | 1            | 0         | 0            | 1         | 1     | 0    | 1    | 0    | 1   | 0            | 0    | 0    |                            |            |

| Category | No   | Item  | Range | *NOT be memorized |       |       |      |       |      |      |      |     |       |      |                            |            |      |    |   |
|----------|------|-------|-------|-------------------|-------|-------|------|-------|------|------|------|-----|-------|------|----------------------------|------------|------|----|---|
|          |      |       |       | RF                | CV/YC | V5/V6 |      |       |      | HDMI |      |     |       |      | Memory Stick               |            | Twin |    |   |
|          |      |       |       |                   |       | 480i  | 480p | 1080i | 720p | 480i | 480p | VGA | 1080i | 720p | Slide Show / Still Picture | Menu Index |      |    |   |
| 2170P-3  |      |       |       | Vivid             |       |       |      |       |      |      |      |     |       |      |                            |            |      |    |   |
|          | 10   | LTLV  | 0-3   |                   | 2     | 3     | 3    | 1     | 3    | 3    | 3    | 3   | 3     | 3    | 3                          | 3          | 3    | 3  |   |
|          | 11   | LTMD  | 0,1   |                   | 1     | 1     | 1    | 0     | 1    | 0    | 1    | 0   | 1     | 1    | 0                          | 0          | 0    | 0  | 1 |
|          | 12   | CTLV  | 0-3   |                   | 0     | 0     | 0    | 0     | 3    | 3    | 0    | 0   | 0     | 3    | 3                          | 0          | 0    | 0  | 0 |
|          | 13   | UBOF  | 0-7   |                   | 0     | 0     | 0    | 1     | 1    | 1    | 0    | 0   | 0     | 0    | 0                          | 2          | 2    | 1  | 1 |
|          | 14   | UCOF  | 0-7   |                   | 2     | 2     | 2    | 2     | 2    | 2    | 2    | 2   | 2     | 2    | 2                          | 1          | 1    | 2  | 2 |
|          | 15   | UHOF  | 0-3   |                   | 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   | 31   | 35   | 44  | 39    | 43   | 37                         | 37         | 56   | 56 |   |
|          | 0    | SYSM  | 0-3   | 1                 | 1     | 1     | 1    | 3     | 3    | 1    | 1    | 1   | 3     | 3    | 1                          | 1          | 2    | 2  |   |
|          | 1    | VMLV* | 0-15  | 7 *               |       |       |      |       |      |      |      |     |       |      |                            |            |      |    |   |
|          | 2    | VMCR  | 0-3   | 1                 | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0    | 0                          | 0          | 0    | 3  |   |
|          | 3    | VMLM  | 0-3   | 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    | 1                          | 1          | 0    | 0  |   |
|          | 5    | VMDL  | 0-15  | 5                 | 5     | 5     | 5    | 13    | 13   | 5    | 5    | 5   | 13    | 13   | 1                          | 1          | 10   | 10 |   |
|          | 6    | SHOF  | 0-3   | 3                 | 3     | 2     | 0    | 1     | 1    | 2    | 0    | 0   | 1     | 1    | 3                          | 3          | 2    | 2  |   |
|          | 7    | SHFO  | 0, 1  | 1                 | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 1   | 1     | 1    | 1                          | 1          | 1    | 1  |   |
|          | 8    | PROV  | 0-3   | 0                 | 3     | 2     | 0    | 3     | 3    | 2    | 0    | 0   | 3     | 3    | 3                          | 3          | 3    | 3  |   |
|          | 9    | F1LV  | 0-3   | 0                 | 0     | 1     | 1    | 0     | 0    | 1    | 1    | 1   | 0     | 0    | 0                          | 0          | 0    | 0  |   |
|          | 10   | LTLV  | 0-3   | 2                 | 2     | 2     | 3    | 3     | 3    | 2    | 3    | 3   | 3     | 3    | 2                          | 2          | 3    | 3  |   |
|          | 11   | LTMD  | 0,1   | 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     | 0    | 0                          | 0          | 0    |    |   |
| 13       | UBOF | 0-7   | 2     | 2                 | 2     | 0     | 2    | 2     | 0    | 0    | 0    | 0   | 0     | 4    | 4                          | 1          | 1    |    |   |
| 14       | UCOF | 0-7   | 1     | 1                 | 2     | 2     | 1    | 2     | 2    | 2    | 2    | 1   | 2     | 0    | 0                          | 0          | 0    |    |   |
| 15       | UHOF | 0-3   | 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    | 30   | 34   | 44   | 38  | 42    | 36   | 36                         | 55         | 55   |    |   |

| Category | No    | Item  | Range | *NOT be memorized |       |       |      |       |      |      |      |     |       |              |                            |      |            |    |   |
|----------|-------|-------|-------|-------------------|-------|-------|------|-------|------|------|------|-----|-------|--------------|----------------------------|------|------------|----|---|
|          |       |       |       | RF                | CV/YC | V5/V6 |      |       |      | HDMI |      |     |       | Memory Stick |                            | Twin |            |    |   |
|          |       |       |       |                   |       | 480i  | 480p | 1080i | 720p | 480i | 480p | VGA | 1080i | 720p         | Slide Show / Still Picture |      | Menu Index |    |   |
| 2170P-3  |       |       |       | Movie             | 1     | 1     | 1    | 1     | 3    | 3    | 1    | 1   | 1     | 3            | 3                          | 1    | 1          | 2  |   |
|          | 0     | SYSM  | 0-3   |                   | 7 *   |       |      |       |      |      |      |     |       |              |                            |      |            |    |   |
|          | 1     | VMLV* | 0-15  |                   | 1     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 0    | 0          | 0  | 3 |
|          | 2     | VMCR  | 0-3   |                   | 3     | 3     | 3    | 3     | 3    | 3    | 3    | 3   | 3     | 3            | 3                          | 3    | 3          | 3  | 3 |
|          | 3     | VMLM  | 0-3   |                   | 1     | 1     | 0    | 0     | 1    | 1    | 1    | 0   | 0     | 1            | 1                          | 0    | 1          | 1  | 0 |
|          | 4     | VMFO  | 0-3   |                   | 5     | 5     | 5    | 5     | 13   | 13   | 5    | 5   | 5     | 13           | 13                         | 1    | 1          | 10 |   |
|          | 5     | VMDL  | 0-15  |                   | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 0   | 1     | 1            | 1                          | 1    | 1          | 1  |   |
|          | 6     | SHOF  | 0-3   |                   | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 1   | 1     | 1            | 1                          | 1    | 1          | 1  |   |
|          | 7     | SHFO  | 0,1   |                   | 0     | 3     | 2    | 1     | 3    | 3    | 2    | 1   | 0     | 3            | 3                          | 3    | 3          | 3  |   |
|          | 8     | PROV  | 0-3   |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 1     | 0            | 0                          | 0    | 0          | 0  |   |
|          | 9     | F1LV  | 0-3   |                   | 1     | 1     | 1    | 2     | 1    | 1    | 1    | 2   | 3     | 1            | 1                          | 1    | 1          | 1  |   |
|          | 10    | LTLV  | 0-3   |                   | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 1   | 1     | 1            | 1                          | 1    | 1          | 1  |   |
|          | 11    | LTMD  | 0,1   |                   | 0     | 0     | 0    | 0     | 2    | 2    | 0    | 0   | 0     | 2            | 2                          | 0    | 0          | 0  |   |
|          | 12    | CTLV  | 0-3   |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 2    | 2          | 0  |   |
|          | 13    | UBOF  | 0-7   |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 0    | 0          | 0  |   |
|          | 14    | UCOF  | 0-7   |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 2   | 0     | 0            | 0                          | 0    | 0          | 0  |   |
|          | 15    | UHOF  | 0-3   |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 0    | 0          | 0  |   |
| 16       | MIDE  | 0-63  | 3     | 9                 | 13    | 17    | 21   | 25    | 29   | 33   | 44   | 37  | 41    | 35           | 35                         | 54   |            |    |   |
|          |       |       |       | Pro               | 1     | 1     | 2    | 1     | 3    | 3    | 2    | 1   | 1     | 3            | 3                          | 2    | 2          | 2  |   |
| 0        | SYSM  | 0-3   | 7 *   |                   |       |       |      |       |      |      |      |     |       |              |                            |      |            |    |   |
| 1        | VMLV* | 0-15  | 1     |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 0    | 0          | 3  |   |
| 2        | VMCR  | 0-3   | 3     |                   | 3     | 3     | 3    | 3     | 3    | 3    | 3    | 3   | 3     | 3            | 3                          | 3    | 3          | 3  |   |
| 3        | VMLM  | 0-3   | 1     |                   | 1     | 0     | 0    | 0     | 0    | 0    | 0    | 1   | 0     | 0            | 0                          | 0    | 0          |    |   |
| 4        | VMFO  | 0-3   | 5     |                   | 5     | 8     | 5    | 13    | 13   | 8    | 5    | 5   | 13    | 13           | 2                          | 2    | 10         |    |   |
| 5        | VMDL  | 0-15  | 1     |                   | 2     | 2     | 0    | 2     | 1    | 2    | 0    | 0   | 2     | 1            | 0                          | 0    | 1          |    |   |
| 6        | SHOF  | 0-3   | 1     |                   | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 1   | 1     | 1            | 1                          | 1    | 1          |    |   |
| 7        | SHFO  | 0,1   | 0     |                   | 2     | 3     | 1    | 3     | 3    | 3    | 1    | 0   | 3     | 3            | 3                          | 3    | 3          |    |   |
| 8        | PROV  | 0-3   | 0     |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 1   | 0     | 0            | 0                          | 0    | 0          |    |   |
| 9        | F1LV  | 0-3   | 0     |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 3   | 0     | 0            | 0                          | 0    | 0          |    |   |
| 10       | LTLV  | 0-3   | 1     |                   | 1     | 1     | 1    | 1     | 1    | 1    | 1    | 1   | 1     | 1            | 1                          | 1    | 1          |    |   |
| 11       | LTMD  | 0,1   | 0     |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 0   | 0     | 0            | 0                          | 0    | 0          |    |   |
| 12       | CTLV  | 0-3   | 2     |                   | 2     | 2     | 1    | 1     | 1    | 0    | 0    | 0   | 0     | 0            | 2                          | 2    | 2          |    |   |
| 13       | UBOF  | 0-7   | 0     |                   | 0     | 0     | 0    | 0     | 0    | 0    | 0    | 2   | 0     | 0            | 0                          | 0    | 0          |    |   |
| 14       | UCOF  | 0-7   | 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          |    |   |
| 16       | MIDE  | 0-63  | 0     | 8                 | 12    | 16    | 20   | 24    | 28   | 32   | 44   | 36  | 40    | 33           | 33                         | 53   |            |    |   |

| Category | No   | Item | Range | *NOT be memorized   |                       |                   |                     |            |              |  |
|----------|------|------|-------|---------------------|-----------------------|-------------------|---------------------|------------|--------------|--|
| 2170P-3  |      |      |       | <b>Vivid</b>        | <b>Standard</b>       | <b>Movie</b>      | <b>Pro</b>          |            |              |  |
|          | 17   | VM   | 0-3   | 3                   | 3                     | 1                 | 0                   |            |              |  |
|          | 18   | VMH  | 0-15  | 15                  | 15                    | 12                | 12                  |            |              |  |
|          | 19   | VMM  | 0-15  | 10                  | 10                    | 8                 | 8                   |            |              |  |
|          | 20   | VML  | 0-15  | 6                   | 6                     | 4                 | 4                   |            |              |  |
|          |      |      |       |                     |                       |                   |                     |            |              |  |
|          |      |      |       |                     | <b>HDMI</b>           |                   |                     |            |              |  |
|          |      |      |       |                     | <b>VGA</b>            |                   |                     |            |              |  |
|          | 21   | VGAP | 0-15  | 5                   |                       |                   |                     |            |              |  |
|          | 22   | VGAS | 0-15  | 0                   |                       |                   |                     |            |              |  |
|          | 23   | VGAB | 0-15  | 0                   |                       |                   |                     |            |              |  |
|          | 24   | VGAC | 0-15  | 0                   |                       |                   |                     |            |              |  |
| 25       | VGAV | 0-15 | 5     |                     |                       |                   |                     |            |              |  |
| 2170P-4  |      |      |       | <b>Memory Stick</b> | <b>Other</b>          |                   |                     |            |              |  |
|          | 0    | YCON | 0,1   | 0                   | 1                     |                   |                     |            |              |  |
|          |      |      |       |                     |                       |                   |                     |            |              |  |
|          |      |      |       | <b>DRC</b>          | <b>VDO (V5&amp;6)</b> | <b>VDO (HDMI)</b> | <b>Memory Stick</b> | <b>PT</b>  | <b>Note:</b> |  |
|          | 1    | SPIC | 0-15  | 7                   | 7                     | 7                 | 7                   | 7          | PT = Pass    |  |
|          | 2    | SCOL | 0-63  | 31                  | 31                    | 31                | 31                  | 31         | Through      |  |
|          | 3    | SHUE | 0-63  | 31                  | 31                    | 31                | 31                  | 31         | (By pass     |  |
|          |      |      |       |                     |                       |                   |                     |            | MID)         |  |
|          | 4    | SPIO | 0-15  | 7                   |                       |                   |                     |            |              |  |
|          | 5    | SCLO | 0-15  | 7                   |                       |                   |                     |            |              |  |
|          | 6    | SHUO | 0-15  | 7                   |                       |                   |                     |            |              |  |
|          |      |      |       |                     |                       |                   |                     |            |              |  |
|          |      |      |       |                     | <b>Vivid</b>          | <b>Standard</b>   | <b>Movie</b>        | <b>Pro</b> |              |  |
|          | 7    | UPIC | 0-63  | 63                  | 48                    | 39                | 31                  |            |              |  |
|          | 8    | UBRT | 0-63  | 31                  | 31                    | 31                | 31                  |            |              |  |
| 9        | UCOL | 0-63 | 35    | 31                  | 31                    | 31                |                     |            |              |  |
| 10       | UHUE | 0-63 | 31    | 31                  | 31                    | 31                |                     |            |              |  |
| 11       | USHP | 0-63 | 24    | 29                  | 31                    | 31                |                     |            |              |  |
| 12       | UTMP | 0-3  | 2     | 1                   | 0                     | 1                 |                     |            |              |  |

| Category | No    | Item | Range    | *NOT be memorized |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|----------|-------|------|----------|-------------------|--------|--------|---|--|----------------------------|-------|------|------|------|-------|-------|------------------------------|------------------------------|---------------|---|
| 2170P-4  |       |      |          | Memory Stick      | Other  |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 13    | RYR  | 0-15     | 8                 |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 14    | RYB  | 0-15     | 9                 |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 15    | GYR  | 0-15     | 9                 |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 16    | GYB  | 0-15     | 6                 |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          |       |      |          |                   |        | RF     | CV/YC                                     | V5/V6                                      |                            |       |      | HDMI |      |       |       | Memory Stick                 |                              | Twin          |   |
|          |       |      |          |                   |        |        |   | 480i                                       | 480p                       | 1080i | 720p | 480i | 480p | VGA   | 1080i | 720p                         | Slide Show/<br>Still Picture | Menu<br>Index |   |
|          | 17    | GAMM | 0-3      | Vivid             | 3      | 2      | 3   | 3  | 3                          | 3     | 2    | 3    | 3    | 3     | 3     | 3                            | 3                            | 3             | 3 |
|          |       |      |          | Standard          | 1      | 1      | 1   | 1  | 1                          | 1     | 1    | 1    | 1    | 1     | 1     | 1                            | 2                            | 2             | 2 |
|          |       |      |          | Movie             | 0      | 0      | 0   | 0  | 0                          | 0     | 0    | 0    | 0    | 0     | 0     | 0                            | 0                            | 0             | 0 |
|          |       |      |          | Pro               | 0      | 0      | 0   | 0  | 0                          | 0     | 0    | 0    | 0    | 0     | 0     | 0                            | 0                            | 0             | 0 |
|          |       |      |          | GAMM=0            | GAMM=1 | GAMM=2 | GAMM=3                                    | Note:<br>Settings based on<br>GAMM<br>data |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 18    | GAMS | 0-15     | 0                 | 8      | 8      | 8   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 19    | GAMR | 0-15     | 0                 | 4      | 8      | 12  |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 20    | GAMG | 0-15     | 0                 | 4      | 8      | 12  |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          | 21    | GAMB | 0-15     | 0                 | 4      | 8      | 12  |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          |       |      |          |                   |        | RF     | CV/YC                                     | V5/V6                                      |                            |       |      | HDMI |      |       |       | Memory Stick                 |                              | Twin          |   |
|          |       |      |          |                   |        |        | 480i                                      | 480p                                       | 1080i                      | 720p  | 480i | 480p | VGA  | 1080i | 720p  | Slide Show/<br>Still Picture | Menu<br>Index                |               |   |
| 22       | BLK   | 0-3  | Vivid    | 3                 | 3      | 3      | 3   | 3  | 3                          | 3     | 3    | 3    | 3    | 3     | 3     | 3                            | 3                            | 3             |   |
|          |       |      | Standard | 2                 | 2      | 2      | 2   | 2  | 2                          | 2     | 2    | 2    | 2    | 2     | 2     | 2                            | 2                            | 2             |   |
|          |       |      | Movie    | 0                 | 0      | 1      | 0   | 1  | 0                          | 1     | 0    | 0    | 1    | 0     | 0     | 0                            | 0                            | 0             |   |
|          |       |      | Pro      | 0                 | 0      | 0      | 0   | 0  | 0                          | 0     | 0    | 0    | 0    | 0     | 0     | 0                            | 0                            | 0             |   |
|          |       |      | BLK=0    | BLK=1             | BLK=2  | BLK=3  | Note:<br>Settings based on<br>BLK<br>data |  |                            |       |      |      |      |       |       |                              |                              |               |   |
| 23       | DCTR  | 0-15 | 0        | 3                 | 7      | 12     |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
| 24       | APED  | 0-3  | 0        | 0                 | 1      | 2      |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
| 25       | DSBO  | 0-15 | 7        | 7                 | 7      | 7      |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
| 26       | IDSW* | 0-7  | 0*       |                   |        |        |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |
|          |       |      |          |                   | BLK=0  | BLK=1  | BLK=2                                     | BLK=3                                      | Note:<br>Settings based on |       |      |      |      |       |       |                              |                              |               |   |
| 27       | ABLM  | 0-3  | 0        | 1                 | 0      | 1      |   |  |                            |       |      |      |      |       |       |                              |                              |               |   |



| Category | No   | Item | Range | *NOT be memorized |  |               |                                  |                 |  |                 |  |
|----------|------|------|-------|-------------------|--|---------------|----------------------------------|-----------------|--|-----------------|--|
| 2170P-4  |      |      |       | <b>Single</b>     |  |               |                                  |                 |  |                 |  |
|          |      |      |       | <b>Others</b>     | <b>MemoryStick<br/>1080Vcomp<br/>VGA</b> | <b>Others</b> |                                  |                 |  |                 |  |
|          | 28   | ABLT | 0-15  | 0                 | 9  | 9             |                                  |                 |  |                 |  |
|          | 29   | SPOF | 0-31  | 0                 |  |               |                                  |                 |  |                 |  |
|          | 30   | DPSQ | 0,1   | 1                 | <b>BLK=0</b>                             | <b>BLK=1</b>  | <b>BLK=2</b>                     | <b>BLK=3</b>    | <b>Note:</b><br>Settings based on BLK data |                 |  |
|          | 31   | LRGB | 0-15  | 3                 |  |               |                                  |                 |  |                 |  |
| 2170D-1  | 0    | VPOS | 0-63  | 31                |  |               |                                  |                 |  |                 |  |
|          | 1    | VSIZ | 0-63  | 30                |  |               |                                  |                 |  |                 |  |
|          | 2    | VSZO | 0-63  | 0                 | <b>1080Full</b>                          | <b>Others</b> | <b>Note:</b><br>Used for PJ only |                 |  |                 |  |
|          | 3    | VLIN | 0-15  | 8                 | <b>WideZoom</b>                          | <b>Others</b> |                                  |                 |  |                 |  |
|          | 4    | VSCO | 0-15  | 10                | 8  |               |                                  |                 |  |                 |  |
|          | 5    | VCEN | 0-63  | 31                | 9  |               |                                  |                 |  |                 |  |
|          | 6    | VPIN | 0-63  | 15                | <b>1080Vcomp<br/>480Vcomp</b>            | <b>Others</b> | 15                               |                 |  |                 |  |
|          | 7    | MVPN | 0-3   | 0                 |  |               |                                  |                 |  |                 |  |
|          | 8    | NSCO | 0-63  | 31                |  |               |                                  |                 |  |                 |  |
|          | 9    | HTPZ | 0-31  | 15                |  |               |                                  |                 |  |                 |  |
|          | 10   | MHTZ | 0-3   | 0                 |  |               |                                  |                 |  |                 |  |
|          | 11   | ZOOM | 0,1   | 1                 | <b>WideZoom</b>                          | <b>Zoom</b>   | <b>Others</b>                    | 0               |  |                 |  |
|          | 12   | APSW | 0,1   | 1                 | <b>WideZoom</b>                          | <b>Zoom</b>   | <b>480Full</b>                   | <b>1080Full</b> | <b>1080Vcomp</b>                           | <b>480Vcomp</b> | <b>Note:</b><br>Data variation for<br>4x3 // 16x9 models |
|          | 13   | ASPT | 0-63  | 22                | 1  | 1             | 1                                | 0               | 0  | 1               |  |
| 14       | SCRL | 0-63 | 31    | 47 // 3           | 43 // 0                                  | 47            | 47 // 3                          | 31              | 31   |                 |  |

| Category | No   | Item | Range           | *NOT be memorized |               |                        |                 |                  |
|----------|------|------|-----------------|-------------------|---------------|------------------------|-----------------|------------------|
| 2170D-1  |      |      |                 | <b>WideZoom</b>   | <b>Others</b> |                        |                 |                  |
|          | 15   | UVLN | 0-15            | 4                 | 0             |                        |                 |                  |
|          | 16   | LVLN | 0-15            | 4                 | 0             |                        |                 |                  |
| 2170D-2  | 0    | HCNT | 0-63            | 31                |               |                        |                 |                  |
|          |      |      |                 | <b>1080Full</b>   | <b>Others</b> |                        |                 |                  |
|          |      |      |                 | <b>1080Vcomp</b>  |               |                        |                 |                  |
|          | 1    | HPOS | 0-63            | 31                | 31            |                        |                 |                  |
|          |      |      |                 | <b>WideZoom</b>   | <b>Others</b> |                        |                 |                  |
|          | 2    | HSIZ | 0-63            | 49                | 40            |                        |                 |                  |
|          | 3    | SLIN | 0-15            | 10                | 4             |                        |                 |                  |
|          | 4    | MPIN | 0-15            | 11                | 10            |                        |                 |                  |
|          |      |      |                 | <b>WideZoom</b>   | <b>Others</b> | <b>1080i</b>           |                 |                  |
|          | 5    | PIN  | 0-63            | 40                | 31            | 31                     |                 |                  |
|          |      |      |                 | <b>WideZoom</b>   | <b>Zoom</b>   | <b>480Full</b>         | <b>1080Full</b> | <b>1080Vcomp</b> |
|          | 6    | PINO | 0-15            | 7                 | 7             | 7                      | 7               | <b>480Vcomp</b>  |
|          |      |      |                 | <b>WideZoom</b>   | <b>Others</b> | <b>1080i</b>           |                 |                  |
|          | 7    | UCP  | 0-63            | 31                | 35            | 35                     |                 |                  |
|          | 8    | LCP  | 0-63            | 31                | 35            | 35                     |                 |                  |
|          |      |      |                 | <b>32HS420</b>    |               | <b>Other HS Models</b> |                 |                  |
|          |      |      |                 | <b>Others</b>     | <b>1080i</b>  | <b>Others</b>          | <b>1080i</b>    |                  |
|          | 9    | UXCG | 0-3             | 1                 | 1             | 0                      | 0               |                  |
| 10       | LXCG | 0-3  | 1               | 1                 | 0             | 0                      |                 |                  |
| 11       | UXCP | 0-3  | 2               | 2                 |               |                        |                 |                  |
| 12       | LXCP | 0-3  | 2               | 2                 |               |                        |                 |                  |
| 13       | XCPP | 0,1  | 0               | 0                 |               |                        |                 |                  |
|          |      |      | <b>WideZoom</b> | <b>Others</b>     |               |                        |                 |                  |
| 14       | PPHA | 0-63 | 20              | 20                |               |                        |                 |                  |
| 15       | VANG | 0-63 | 31              |                   |               |                        |                 |                  |
| 16       | LANG | 0-63 | 31              |                   |               |                        |                 |                  |
| 17       | VBOW | 0-63 | 31              |                   |               |                        |                 |                  |
| 18       | LBOW | 0-63 | 31              |                   |               |                        |                 |                  |

| Category | No   | Item | Range    | *NOT be memorized     |      |        |                     |   |          |                       |           |           |  |
|----------|------|------|----------|-----------------------|------|--------|---------------------|---|----------|-----------------------|-----------|-----------|--|
| 2170D-3  | 0    | HBLK | 0,1      | 1                     |      |        |                     |   |          |                       |           |           |  |
|          |      |      |          | 1080Full<br>1080Vcomp |      | Others |                     |   |          |                       |           |           |  |
|          | 1    | LBLK | 0-63     | 50                    |      | 51     |                     |   |          |                       |           |           |  |
|          | 2    | RBLK | 0-63     | 31                    |      | 27     |                     |   |          |                       |           |           |  |
|          |      |      |          | WideZoom              |      | Zoom   |                     | 480Full<br>1080Full                               |          | 480Vcomp<br>1080Vcomp |           |           |  |
|          | 3    | VBLK | 0,1      | 0                     |      | 0      |                     | 1   |          | 1                     |           |           |  |
|          |      |      |          | WideZoom              |      | Zoom   |                     | 480Full   |          | 1080Full              | 1080Vcomp | 480Vcomp  | Note:                                    |
|          | 4    | TBLK | 0-15     | 12                    |      | 7      |                     | 2   |          | 4                     | 10        | 8 // 2    | Data variation for<br>4x3 // 16x9 models |
|          | 5    | BBLK | 0-15     | 15                    |      | 7      |                     | 8   |          | 6                     | 14        | 13 // 8   |  |
|          |      |      |          | 1080Full<br>1080Vcomp |      | Others |                     |   |          |                       |           |           |  |
|          | 6    | AFCM | 0-3      | 2                     |      | 3      |                     |   |          |                       |           |           |  |
|          |      |      |          | 1080Vcomp<br>480Vcomp |      | Others |                     | Note:<br>Data variation for<br>4x3 // 16x9 models |          |                       |           |           |  |
|          | 7    | JUMP | 0,1      | 1 // 0                |      | 0      |                     |   |          |                       |           |           |  |
|          |      |      |          | WideZoom              |      | Zoom   |                     | 480Vcomp<br>480Full                               |          | 1080Full              |           | 1080Vcomp |  |
|          | 8    | VDJP | 0,1      | 1                     |      | 1      |                     | 0   |          | 1                     |           | 1         |  |
|          |      |      |          | 1080Vcomp<br>1080Full |      | Others |                     |   |          |                       |           |           |  |
|          | 9    | VDST | 0,1      | 0                     |      | 0      |                     |   |          |                       |           |           |  |
|          |      |      | WideZoom |                       | Zoom |        | 480Full<br>480Vcomp |   | 1080Full |                       | 1080Vcomp |           |  |
| 10       | AKBT | 0-31 | 15       |                       | 15   |        | 20                  |   | 16       |                       | 16        |           |  |

| Category | No   | Item  | Range | *NOT be memorized     |   |                       |         |                       |        |                       |        |                       |        |
|----------|------|-------|-------|-----------------------|---|-----------------------|---------|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| 2170D-4  |      |       |       | 27HS420<br>29DRC420   |   | 32HS420               |         | 36HS420               |        | 30HS420               |        | 34HS420               |        |
|          |      |       |       | 1080Vcomp<br>480Vcomp | Others  | 1080Vcomp<br>480Vcomp | Others  | 1080Vcomp<br>480Vcomp | Others | 1080Vcomp<br>480Vcomp | Others | 1080Vcomp<br>480Vcomp | Others |
|          | 0    | QPAM  | 0-63  | 36                    | 36  | 25                    | 25      | 22                    | 22     | 33                    | 33     | 45                    | 45     |
|          | 1    | QPAV  | 0-63  | 44                    | 44  | 40                    | 40      | 40                    | 40     | 46                    | 46     | 47                    | 47     |
|          | 2    | QPAP  | 0-15  | 6                     | 6   | 6                     | 6       | 6                     | 6      | 6                     | 6      | 6                     | 6      |
|          | 3    | QPDC  | 0-63  | 22                    | 22  | 17                    | 17      | 17                    | 17     | 29                    | 29     | 42                    | 42     |
|          | 4    | QPDV  | 0-63  | 52                    | 52  | 52                    | 52      | 52                    | 52     | 59                    | 59     | 63                    | 63     |
|          | 5    | QPDP  | 0-15  | 6                     | 6   | 6                     | 6       | 6                     | 6      | 6                     | 6      | 6                     | 6      |
|          | 6    | CPY1* | 0,1   | 0 *                   | <b>Note:</b> Copy1 makes the data copying from one mode to all other modes. |                       |         |                       |        |                       |        |                       |        |
|          |      |       |       | 27HS420<br>29DRC420   | 32HS420   | 36HS420               | 30HS420 | 34HS420               |        |                       |        |                       |        |
| 7        | DF   | 0-63  | 36    | 36                    | 36  | 40                    | 36      |                       |        |                       |        |                       |        |
| 8        | DQP  | 0-63  | 37    | 37                    | 37  | 38                    | 37      |                       |        |                       |        |                       |        |
| 2170D-5  | 0    | VFRQ  | 0-3   | 1                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 1    | VON*  | 0,1   | 1*                    |   |                       |         |                       |        |                       |        |                       |        |
|          | 2    | EWDC  | 0,1   | 0                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 3    | MS15  | 0,1   | 0                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 4    | HFRQ  | 0-255 | 80                    |   |                       |         |                       |        |                       |        |                       |        |
|          | 5    | HFRX  | 0-63  | 25                    |   |                       |         |                       |        |                       |        |                       |        |
|          | 6    | VMPS  | 0,1   | 0                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 7    | INTR  | 0,1   | 0                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 8    | VLNL  | 0-3   | 0                     |   |                       |         |                       |        |                       |        |                       |        |
|          | 9    | VLNH  | 0-255 | 0                     |   |                       |         |                       |        |                       |        |                       |        |
| 10       | AGCS | 0,1   | 0     |                       |   |                       |         |                       |        |                       |        |                       |        |

| Category            | No   | Item  | Range      | *NOT be memorized                  |                                    |                                    |                  |
|---------------------|------|-------|------------|------------------------------------|------------------------------------|------------------------------------|------------------|
| D-CONV<br>(CXA8070) | 0    | YBWU  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 1    | YBWL  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 2    | RSAP  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 3    | RUMB  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 4    | RUBW  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 5    | RLMB  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 6    | RLBW  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 7    | LSAP  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 8    | LUMB  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 9    | LUBW  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 10   | LLMB  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 11   | LLBW  | 0-63       | 31                                 |                                    |                                    |                  |
|                     | 12   | CADJ  | 0-63       | 29                                 |                                    |                                    |                  |
| 13                  | HVCA | 0-63  | 55         |                                    |                                    |                                    |                  |
| CXA2171             |      |       |            | V5/V6                              |                                    | HDMI / Tiny Micro<br>\$6D_00       |                  |
|                     |      |       |            | 720p<br>1080i                      | Others                             | Bit6:<br>709 = 1                   | Bit6:<br>709 = 0 |
|                     | 0    | MTRX* | 0-3        | 1 *                                | 0 *                                | 1 *                                | 0 *              |
|                     |      |       |            | PT                                 | Others                             | Note:<br>PT = Pass Through         |                  |
|                     | 1    | GAIN  | 0-3        | 7                                  | 7                                  |                                    |                  |
|                     |      |       |            | V5                                 | V6                                 | HDMI                               | Others           |
|                     |      |       |            | 480i&480p<br>720p/1080i<br>No Sync | 480i/480p<br>720p/1080i<br>No Sync | 480i/480p<br>720p/1080i<br>No Sync |                  |
|                     | 2    | FIXS* | 0-3        | 0                                  | 0                                  | 0                                  | 0                |
|                     |      |       |            | PT                                 | Others                             |                                    |                  |
|                     | 3    | CBGN  | 0-15       | 7                                  | 7                                  |                                    |                  |
|                     | 4    | CRGN  | 0-15       | 8                                  | 8                                  |                                    |                  |
|                     | 5    | YGN   | 0-15       | 8                                  | 8                                  |                                    |                  |
|                     | 6    | VTC   | 0-3        | 0                                  |                                    |                                    |                  |
|                     |      |       | Tristate=1 | Tristate=0                         |                                    |                                    |                  |
| 7                   | HTC* | 0,1   | 0 *        | 1 *                                |                                    |                                    |                  |
| 8                   | HWID | 0-3   | 1          |                                    |                                    |                                    |                  |
| 9                   | HSEP | 0,1   | 1          |                                    |                                    |                                    |                  |

| Category | No   | Item  | Range     | *NOT be memorized                  |                                    |                              |           |       |   |
|----------|------|-------|-----------|------------------------------------|------------------------------------|------------------------------|-----------|-------|---|
| CXA2171  |      |       |           | V5/V6                              |                                    | HDMI / Tiny Micro<br>\$6D_00 |           |       |   |
|          |      |       |           | V5/V6<br>HDMI<br>1080i             | Others                             |                              |           |       |   |
|          | 10   | HMSK* | 0,1       | 0 *                                | 1 *                                |                              |           |       |   |
|          |      |       |           | V5                                 | V6                                 | HDMI                         | Others    |       |   |
|          |      |       |           | 480i/480p<br>720p/1080i<br>No Sync | 480i/480p<br>720p/1080i<br>No Sync |                              |           |       |   |
|          | 11   | FRGB* | 0,1       | 0                                  | 0                                  | 0                            | 0         |       |   |
|          | MID1 | 0     | DHPH      | 0-255                              | 109                                |                              |           |       |   |
|          |      | 1     | DVPH      | 0-63                               | 20                                 |                              |           |       |   |
|          |      | 2     | DHAR      | 0-255                              | 240                                |                              |           |       |   |
|          |      | 3     | DVAR      | 0-255                              | 135                                |                              |           |       |   |
|          |      | 4     | DHPW      | 0-63                               | 55                                 |                              |           |       |   |
| 5        |      | DVPW  | 0-7       | 5                                  |                                    |                              |           |       |   |
|          |      |       |           | Single                             | Twin                               | Freeze                       | Favorites | Index |   |
| 6        |      | DYCD  | 0-63      | 480i                               | Others                             | 2                            | 2         | 2     | 2 |
|          |      |       |           | Table-0                            | Table-1                            | Table-2                      | Table-3   |       |   |
| 7        |      | DYSD  | 0-7       | 7                                  | 4                                  | 2                            | 1         |       |   |
|          |      |       | Single    | Favorites                          |                                    | Index                        |           |       |   |
|          |      |       | VGA       | Others                             |                                    | VGA                          | VGA       |       |   |
|          |      |       | Normal    | Others                             | Normal                             | Others                       |           |       |   |
| 8        | MDHP | 0-255 | 174       | 72                                 | 156                                | 0                            | 40        | 41    |   |
|          |      |       | Single    | Favorites                          |                                    | Index                        |           |       |   |
|          |      |       | 480i/480p | VGA                                | Others                             | VGA                          | VGA       |       |   |
| 9        | MDVP | 0-255 | 30        | 66                                 | 0                                  | 34                           | 86        |       |   |
|          |      |       | Single    | Favorites                          |                                    | Index                        |           |       |   |
|          |      |       | VGA       | Others                             |                                    | VGA                          | VGA       |       |   |
|          |      |       | Normal    | Others                             | Normal                             | Others                       |           |       |   |
| 10       | MDHS | 0-255 | 162       | 204                                | 162                                | 240                          | 155       | 119   |   |

| Category | No   | Item | Range | *NOT be memorized |             |        |             |        |
|----------|------|------|-------|-------------------|-------------|--------|-------------|--------|
| MID1     |      |      |       | Single            |             |        | Favorites   | Index  |
|          |      |      |       | 480i/480p         | VGA         | Others | VGA         | VGA    |
|          | 11   | MDVS | 0-255 | 120               | 102         | 135    | 103         | 77     |
|          |      |      |       |                   |             |        |             |        |
|          |      |      |       |                   | Twin Freeze |        | Favorites   | Index  |
|          | 12   | MLHP | 0-255 | 36                | 31          | 31     |             |        |
|          | 13   | MLVP | 0-255 | 8                 | 30          | 30     |             |        |
|          |      |      |       |                   |             |        |             |        |
|          |      |      |       |                   | Favorites   |        |             |        |
|          | 14   | SDHP | 0-255 | 167               |             |        |             |        |
|          | 15   | SDVP | 0-255 | 5                 |             |        |             |        |
|          | 16   | SDHS | 0-255 | 115               |             |        |             |        |
|          | 17   | SDVS | 0-255 | 79                |             |        |             |        |
|          |      |      |       |                   |             |        |             |        |
|          | 18   | PDHP | 0-255 | 0                 |             |        |             |        |
|          | 19   | PDVP | 0-255 | 0                 |             |        |             |        |
|          | 20   | PDHS | 0-255 | 0                 |             |        |             |        |
|          | 21   | PDVS | 0-255 | 0                 |             |        |             |        |
|          |      |      |       |                   |             |        |             |        |
|          |      |      |       |                   | 1080iSingle |        | Others      |        |
|          | 22   | DPSW | 0,1   | 0                 | 0           |        |             |        |
|          |      |      |       |                   |             |        |             |        |
|          | 23   | MDLO | 0-63  | 12                |             |        |             |        |
|          |      |      |       |                   |             |        |             |        |
|          |      |      |       |                   | Single      |        |             | Others |
|          |      |      |       |                   | Normal      | Others | MemoryStick |        |
|          | 24   | BCOL | 0-15  | 1                 | 1           | 0      | 1           |        |
|          |      |      |       |                   |             |        |             |        |
| 25       | DYSS | 0-3  | 1     |                   |             |        |             |        |
|          |      |      |       |                   |             |        |             |        |
|          |      |      |       | Index             |             |        |             |        |
| 26       | OSDH | 0-63 | 32    |                   |             |        |             |        |
| 27       | OSDV | 0-63 | 16    |                   |             |        |             |        |

| Category | No   | Item  | Range | *NOT be memorized  |                     |        |        |        |           |        |
|----------|------|-------|-------|--------------------|---------------------|--------|--------|--------|-----------|--------|
| MID2     |      |       |       | Single             | V5/V6-480i          |        | YC     |        | HDMI-480i |        |
|          |      |       |       |                    | Normal              | Others | Normal | Others | Normal    | Others |
|          | 0    | DRHP  | 0-255 |                    | 153                 | 120    | 154    | 117    | 153       | 120    |
|          | 1    | DRHS  | 0-255 |                    | 162                 | 180    | 162    | 180    | 162       | 180    |
|          | 2    | DRVP  | 0-63  |                    | 37                  | 37     | 37     | 37     | 37        | 37     |
|          | 3    | DRVS  | 0-255 | 120                | 120                 | 120    | 120    | 120    | 120       |        |
|          |      |       |       |                    | Twin-Left           | 480i   | YC     |        |           |        |
|          | 0    | DRHP  | 0-255 | 146                |                     | 148    |        |        |           |        |
|          | 1    | DRHS  | 0-255 | 164                |                     | 164    |        |        |           |        |
|          | 2    | DRVP  | 0-63  | 57                 |                     | 57     |        |        |           |        |
|          | 3    | DRVS  | 0-255 | 110                |                     | 110    |        |        |           |        |
|          |      |       |       |                    | Twin-Right          | YC     |        |        |           |        |
|          | 0    | DRHP  | 0-255 | 153                |                     |        |        |        |           |        |
|          | 1    | DRHS  | 0-255 | 164                |                     |        |        |        |           |        |
|          | 2    | DRVP  | 0-63  | 57                 |                     |        |        |        |           |        |
|          | 3    | DRVS  | 0-255 | 110                |                     |        |        |        |           |        |
|          |      |       |       |                    | Freeze              | 480i   | YC     |        |           |        |
|          | 0    | DRHP  | 0-255 | 153                |                     | 153    |        |        |           |        |
|          | 1    | DRHS  | 0-255 | 162                |                     | 162    |        |        |           |        |
|          | 2    | DRVP  | 0-63  | 57                 |                     | 57     |        |        |           |        |
|          | 3    | DRVS  | 0-255 | 110                |                     | 110    |        |        |           |        |
|          |      |       |       |                    | Favorites<br>(Main) | 480i   |        | YC     |           |        |
|          |      |       |       |                    |                     | Full   | Vcomp  | Full   | Vcomp     |        |
|          | 0    | DRHP  | 0-255 | 140                |                     | 140    | 140    | 140    |           |        |
|          | 1    | DRHS  | 0-255 | 165                |                     | 165    | 165    | 165    |           |        |
|          | 2    | DRVP  | 0-63  | 37                 |                     | 57     | 37     | 57     |           |        |
|          | 3    | DRVS  | 0-255 | 120                | 110                 | 120    | 110    |        |           |        |
|          |      |       |       | Favorites<br>(Sub) | YC                  |        |        |        |           |        |
| 0        | DRHP | 0-255 | 153   |                    |                     |        |        |        |           |        |
| 1        | DRHS | 0-255 | 171   |                    |                     |        |        |        |           |        |
| 2        | DRVP | 0-63  | 28    |                    |                     |        |        |        |           |        |
| 3        | DRVS | 0-255 | 118   |                    |                     |        |        |        |           |        |

| Category | No   | Item  | Range | *NOT be memorized |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|----------|------|-------|-------|-------------------|-------------|-----------|-------|--------|--------|--------|--------|------|------|--------|--------|--------|--------|--------|--------|
| MID2     |      |       |       | Index (Main)      | 480i        |           | YC    |        |        |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   | Full        | Vcomp     | Full  | Vcomp  |        |        |        |      |      |        |        |        |        |        |        |
|          | 0    | DRHP  | 0-255 |                   | 140         | 140       | 140   | 140    |        |        |        |      |      |        |        |        |        |        |        |
|          | 1    | DRHS  | 0-255 |                   | 165         | 165       | 165   | 155    |        |        |        |      |      |        |        |        |        |        |        |
|          | 2    | DRVP  | 0-63  |                   | 37          | 57        | 37    | 57     |        |        |        |      |      |        |        |        |        |        |        |
|          | 3    | DRVS  | 0-255 | 120               | 110         | 120       | 110   |        |        |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   | Index (Sub) | YC        |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   |             | 158       |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 0    | DRHP  | 0-255 | 162               |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 1    | DRHS  | 0-255 | 57                |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
| 2        | DRVP | 0-63  | 110   |                   |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
| 3        | DRVS | 0-255 |       |                   |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
| MID3     |      |       |       | Single            | V5/V6       |           |       |        |        |        | HDMI   |      |      |        |        |        |        |        |        |
|          |      |       |       |                   | 1080i       | 720p      | 480p  |        | 480i   |        | 1080i  | 720p | 480p |        | 480i   |        | VGA    |        |        |
|          |      |       |       |                   |             |           |       | Normal | Others | Normal | Others |      |      | Normal | Others | Normal | Others | Normal | Others |
|          | 0    | VDHP  | 0-255 |                   | 107         | 137       | 200   | 152    | 76     | 56     | 107    | 137  | 200  | 152    | 76     | 56     | 170    | 170    |        |
|          | 1    | VDHS  | 0-255 |                   | 240         | 161       | 216   | 240    | 162    | 180    | 240    | 161  | 216  | 240    | 162    | 180    | 229    | 229    |        |
|          | 2    | VDVE  | 0-63  |                   | 19          | 24        | 37    | 37     | 17     | 17     | 19     | 24   | 37   | 37     | 17     | 17     | 34     | 34     |        |
|          | 3    | VDVS  | 0-255 |                   | 135         | 180       | 120   | 120    | 60     | 60     | 135    | 180  | 120  | 120    | 60     | 60     | 120    | 120    |        |
|          |      |       |       |                   |             | Twin-Left | 1080i | 720p   | 480p   | 480i   | VGA    |      |      |        |        |        |        |        |        |
|          | 0    | VDHP  | 0-255 | 141               | 163         |           | 192   | 71     | 213    |        |        |      |      |        |        |        |        |        |        |
|          | 1    | VDHS  | 0-255 | 221               | 147         |           | 219   | 164    | 209    |        |        |      |      |        |        |        |        |        |        |
|          | 2    | VDVE  | 0-63  | 43                | 54          |           | 57    | 27     | 45     |        |        |      |      |        |        |        |        |        |        |
|          | 3    | VDVS  | 0-255 | 123               | 165         |           | 110   | 55     | 110    |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   | Twin-Right  | YC        |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   |             | 73        |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 0    | VDHP  | 0-255 | 164               |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 1    | VDHS  | 0-255 | 27                |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 2    | VDVE  | 0-63  | 55                |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          | 3    | VDVS  | 0-255 |                   |             |           |       |        |        |        |        |      |      |        |        |        |        |        |        |
|          |      |       |       |                   | Freeze      | 1080i     | 720p  | 480p   | 480i   | VGA    |        |      |      |        |        |        |        |        |        |
|          | 0    | VDHP  | 0-255 | 151               |             | 169       | 200   | 74     | 212    |        |        |      |      |        |        |        |        |        |        |
|          | 1    | VDHS  | 0-255 | 218               |             | 145       | 216   | 162    | 208    |        |        |      |      |        |        |        |        |        |        |
|          | 2    | VDVE  | 0-63  | 43                |             | 54        | 57    | 27     | 45     |        |        |      |      |        |        |        |        |        |        |
| 3        | VDVS | 0-255 | 123   | 165               |             | 110       | 55    | 110    |        |        |        |      |      |        |        |        |        |        |        |



| Category | No   | Item  | Range | *NOT be memorized   |                    |       |       |      |       |       |       |       |       |       |
|----------|------|-------|-------|---------------------|--------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| MID3     |      |       |       | Favorites<br>(Main) | 1080i              |       | 720p  | 480p |       | 480i  |       | VGA   |       |       |
|          |      |       |       |                     | Full               | Vcomp |       | Full | Vcomp | Full  | Vcomp | Full  | Vcomp |       |
|          | 0    | VDHP  | 0-255 |                     | 136                | 136   | 158   | 184  | 184   | 68    | 68    | 169   | 169   |       |
|          | 1    | VDHS  | 0-255 |                     | 222                | 222   | 148   | 220  | 220   | 165   | 165   | 229   | 229   |       |
|          | 2    | VDVE  | 0-63  |                     | 43                 | 43    | 55    | 37   | 57    | 17    | 27    | 34    | 34    |       |
|          | 3    | VDVS  | 0-255 | 123                 | 123                | 165   | 120   | 110  | 60    | 55    | 120   | 120   |       |       |
|          |      |       |       |                     | Favorites<br>(Sub) | YC    |       |      |       |       |       |       |       |       |
|          | 0    | VDHP  | 0-255 | 75                  |                    |       |       |      |       |       |       |       |       |       |
|          | 1    | VDHS  | 0-255 | 171                 |                    |       |       |      |       |       |       |       |       |       |
|          | 2    | VDVE  | 0-63  | 13                  |                    |       |       |      |       |       |       |       |       |       |
|          | 3    | VDVS  | 0-255 | 59                  |                    |       |       |      |       |       |       |       |       |       |
|          |      |       |       |                     | Index<br>(Main)    | 1080i |       | 720p | 480p  |       | 480i  |       | VGA   |       |
|          |      |       |       |                     |                    | Full  | Vcomp |      | Full  | Vcomp | Full  | Vcomp | Full  | Vcomp |
|          | 0    | VDHP  | 0-255 | 136                 |                    | 136   | 158   | 184  | 184   | 68    | 68    | 169   | 169   |       |
|          | 1    | VDHS  | 0-255 | 222                 |                    | 222   | 148   | 220  | 220   | 165   | 165   | 229   | 229   |       |
|          | 2    | VDVE  | 0-63  | 43                  |                    | 43    | 55    | 37   | 57    | 17    | 27    | 34    | 34    |       |
|          | 3    | VDVS  | 0-255 | 123                 | 123                | 165   | 120   | 110  | 60    | 55    | 120   | 120   |       |       |
|          |      |       |       |                     | Index<br>(Sub)     | YC    |       |      |       |       |       |       |       |       |
|          | 0    | VDHP  | 0-255 | 76                  |                    |       |       |      |       |       |       |       |       |       |
|          | 1    | VDHS  | 0-255 | 162                 |                    |       |       |      |       |       |       |       |       |       |
|          | 2    | VDVE  | 0-63  | 27                  |                    |       |       |      |       |       |       |       |       |       |
|          | 3    | VDVS  | 0-255 | 55                  |                    |       |       |      |       |       |       |       |       |       |
|          |      |       |       |                     | V5/V6              |       |       |      | HDMI  |       |       |       |       |       |
|          |      |       |       | YC                  | 480i               | 1080i | 720p  | 480p | 480i  | 1080i | 720p  | 480p  | VGA   |       |
|          | 4    | VDVO  | 0-3   | 0                   | 0                  | 0     | 0     | 0    | 0     | 0     | 0     | 0     | 0     |       |
|          | 5    | VCPO  | 0-255 | 42                  | 42                 | 72    | 88    | 122  | 42    | 72    | 88    | 122   | 122   |       |
|          | 6    | VCWD  | 0-7   | 1                   | 1                  | 3     | 3     | 3    | 1     | 3     | 3     | 3     | 3     |       |
| 7        | VYCD | 0-63  | 0     | 0                   | 0                  | 0     | 0     | 0    | 0     | 0     | 0     | 0     |       |       |
| 8        | VSTP | 0-255 | 62    | 62                  | 136                | 183   | 126   | 62   | 136   | 183   | 126   | 129   |       |       |
| 9        | VSTT | 0-15  | 0     | 0                   | 0                  | 0     | 0     | 0    | 0     | 0     | 0     | 0     |       |       |
| 10       | VHSC | 0-255 | 130   | 130                 | 130                | 130   | 130   | 130  | 130   | 130   | 130   | 130   |       |       |
| 11       | VFRV | 0,1   | 0     | 0                   | 0                  | 0     | 0     | 0    | 0     | 0     | 0     | 0     |       |       |

| Category | No   | Item | Range | *NOT be memorized |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|------|------|-------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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                 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|          | 2    | MHLC | 0-3   | 3                 | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|          | 3    | MVLY | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 4    | MVLC | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 5    | MHYR | 0-3   | 0                 | 1  | 1  | 1  | 2  | 3  | 3  | 2  | 0  | 0  | 2  | 1  | 0  | 0  | 1  | 1  |
|          | 6    | MHYL | 0-3   | 0                 | 1  | 1  | 1  | 1  | 2  | 2  | 2  | 0  | 1  | 2  | 1  | 0  | 0  | 1  | 2  |
|          | 7    | MHYE | 0-7   | 0                 | 2  | 2  | 5  | 6  | 7  | 7  | 7  | 0  | 2  | 4  | 7  | 0  | 0  | 7  | 7  |
|          | 8    | MHYO | 0,1   | 0                 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0  |
|          | 9    | MHCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 10   | MHCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 11   | MHCE | 0-7   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 12   | MHCO | 0-1   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 13   | MVYR | 0-3   | 0                 | 0  | 0  | 0  | 1  | 2  | 2  | 2  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 2  |
|          | 14   | MVYL | 0-3   | 0                 | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 2  |
|          | 15   | MVYE | 0-7   | 0                 | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 3  | 3  | 3  | 0  | 0  | 4  | 3  |
|          | 16   | MVCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 17   | MVCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18       | MVCE | 0-7  | 0     | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |
|          |      |      |       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|          | 0    | POP  | 0-63  | 16                | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|          | 1    | MHLY | 0-3   | 1                 | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  |
|          | 2    | MHLC | 0-3   | 3                 | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  | 3  | 3  | 3  |
|          | 3    | MVLY | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 4    | MVLC | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|          | 5    | MHYR | 0-3   | 1                 | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  |
|          | 6    | MHYL | 0-3   | 1                 | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 2  |
|          | 7    | MHYE | 0-7   | 2                 | 2  | 2  | 7  | 0  | 4  | 7  | 7  | 2  | 4  | 7  | 7  | 0  | 0  | 7  | 7  |
|          | 8    | MHYO | 0,1   | 1                 | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  |
|          | 9    | MHCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
|          | 10   | MHCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
|          | 11   | MHCE | 0-7   | 0                 | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 0  | 0  |
|          | 12   | MHCO | 0-1   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
|          | 13   | MVYR | 0-3   | 0                 | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 2  |
|          | 14   | MVYL | 0-3   | 0                 | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 2  |
|          | 15   | MVYE | 0-7   | 0                 | 1  | 1  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 3  |
|          | 16   | MVCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
|          | 17   | MVCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  |
|          | 18   | MVCE | 0-7   | 0                 | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 0  | 0  |

| Category | No | Item | Range | *NOT be memorized |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----------|----|------|-------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| MID5     | 0  | POP  | 0-63  | 32                | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |   |
|          | 1  | MHLY | 0-3   | 1                 | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0 |
|          | 2  | MHLC | 0-3   | 3                 | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0 |
|          | 3  | MVLY | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|          | 4  | MVLC | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|          | 5  | MHYR | 0-3   | 1                 | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0 |
|          | 6  | MHYL | 0-3   | 1                 | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 0 |
|          | 7  | MHYE | 0-7   | 2                 | 2  | 2  | 7  | 0  | 4  | 7  | 7  | 2  | 4  | 7  | 7  | 2  | 0  | 0  | 0  | 0 |
|          | 8  | MHYO | 0,1   | 1                 | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0 |
|          | 9  | MHCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0 |
|          | 10 | MHCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0 |
|          | 11 | MHCE | 0-7   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 0  | 0 |
|          | 12 | MHCO | 0-1   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0 |
|          | 13 | MVYR | 0-3   | 0                 | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0 |
|          | 14 | MVYL | 0-3   | 0                 | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 0 |
|          | 15 | MVYE | 0-7   | 0                 | 1  | 1  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 1  | 0  | 0  | 0  | 0 |
|          | 16 | MVCR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0 |
|          | 17 | MVCL | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0 |
|          | 18 | MVCE | 0-7   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 4  | 0  | 0  | 4  | 4  | 0  | 0  | 0  | 0 |
|          |    |      |       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|          | 0  | POP  | 0-63  | 48                | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |   |
|          | 1  | MHLY | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 2  | MHLC | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 3  | MVLY | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 4  | MVLC | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 5  | MHYR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 6  | MHYL | 0-3   | 0                 | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 7  | MHYE | 0-7   | 0                 | 0  | 4  | 2  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 8  | MHYO | 0,1   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 9  | MHCR | 0-3   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 10 | MHCL | 0-3   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 11 | MHCE | 0-7   | 0                 | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 12 | MHCO | 0-1   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 13 | MVYR | 0-3   | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 14 | MVYL | 0-3   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 15 | MVYE | 0-7   | 0                 | 0  | 0  | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 16 | MVCR | 0-3   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 17 | MVCL | 0-3   | 0                 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
|          | 18 | MVCE | 0-7   | 0                 | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |

| Category | No   | Item  | Range | *NOT be memorized |               |
|----------|------|-------|-------|-------------------|---------------|
| MID5     |      |       |       | <b>Memory</b>     |               |
|          | 19   | SHLY  | 0-7   | 0                 |               |
|          | 20   | SHLC  | 0-7   | 0                 |               |
|          | 21   | SVLY  | 0-7   | 0                 |               |
|          | 22   | SVLC  | 0-7   | 0                 |               |
|          | 23   | SHYR  | 0-3   | 0                 |               |
|          | 24   | SHYL  | 0-3   | 0                 |               |
|          | 25   | SHYE  | 0-7   | 0                 |               |
|          | 26   | SHYO  | 0,1   | 0                 |               |
|          | 27   | SHCR  | 0-3   | 0                 |               |
|          | 28   | SHCL  | 0-3   | 0                 |               |
|          | 29   | SHCE  | 0-7   | 0                 |               |
|          | 30   | SHCO  | 0,1   | 0                 |               |
|          | 31   | SVYR  | 0-3   | 0                 |               |
|          | 32   | SVYL  | 0-3   | 0                 |               |
|          | 33   | SVYE  | 0-7   | 0                 |               |
|          | 34   | SVCR  | 0-3   | 0                 |               |
| 35       | SVCL | 0-3   | 0     |                   |               |
| 36       | SVCE | 0-7   | 0     |                   |               |
| CXA3506R |      |       |       | <b>480i</b>       | <b>Others</b> |
|          | 0    | MCON  | 0,1   | 64                | 64            |
|          | 1    | SCOR  | 0-255 | 128               | 128           |
|          | 2    | SCOG  | 0-255 | 128               | 128           |
|          | 3    | SCOB  | 0-255 | 128               | 128           |
| 4        | RGB  | 0-255 | 0     | 0                 |               |



| Category | No   | Item | Range | *NOT be memorized |         |         |         |         |         |         |        |
|----------|------|------|-------|-------------------|---------|---------|---------|---------|---------|---------|--------|
| SNNR     | 0    | MODE | 0-3   | 0                 |         |         |         |         |         |         |        |
|          | 1    | SNNR | 0-7   | 0                 |         |         |         |         |         |         |        |
|          |      |      |       |                   |         |         |         |         |         |         |        |
|          |      |      |       | WSLT- A           | WSLT- B | WSLT- C | WSLT- D | WSLT- E | WSLT- F | WSLT- G |        |
|          | 2    | WSLT | 0-255 | 15                | 31      | 45      | 63      | 85      | 110     | 127     |        |
|          |      |      |       |                   |         |         |         |         |         |         |        |
|          |      |      |       | SNNR=0            | SNNR=1  | SNNR=2  | SNNR=3  | SNNR=4  | SNNR=5  | SNNR=6  | SNNR=7 |
|          | 3    | CPFG | 0-15  | 0                 | 0       | 1       | 1       | 2       | 2       | 2       | 3      |
|          | 4    | CPFT | 0-3   | 0                 | 0       | 0       | 0       | 0       | 0       | 0       | 0      |
|          | 5    | CCOR | 0-3   | 0                 | 0       | 1       | 1       | 1       | 1       | 1       | 1      |
|          | 6    | CHCG | 0,1   | 0                 | 1       | 1       | 1       | 1       | 1       | 1       | 1      |
|          | 7    | CAPG | 0-7   | 0                 | 0       | 0       | 0       | 0       | 0       | 0       | 0      |
|          | 8    | 3SHP | 0-15  | 0                 | 0       | 1       | 1       | 2       | 2       | 2       | 3      |
|          | 9    | NYNR | 0-15  | 0                 | 1       | 2       | 2       | 3       | 3       | 4       | 4      |
|          | 10   | NCNR | 0-15  | 0                 | 1       | 2       | 2       | 3       | 3       | 4       | 4      |
|          | 11   | NYMG | 0-3   | 0                 | 0       | 0       | 0       | 0       | 0       | 0       | 0      |
|          | 12   | NCMG | 0-3   | 0                 | 0       | 0       | 0       | 0       | 0       | 0       | 0      |
|          | 13   | NYLT | 0-15  | 0                 | 1       | 1       | 2       | 3       | 4       | 6       | 8      |
|          | 14   | NYNC | 0-15  | 0                 | 0       | 2       | 2       | 3       | 3       | 4       | 4      |
|          | 15   | NYCO | 0,1   | 0                 | 0       | 1       | 1       | 1       | 1       | 1       | 1      |
|          | 16   | 7SHP | 0-63  | 0                 | 0       | 1       | 1       | 3       | 3       | 3       | 4      |
|          | 17   | 7YF1 | 0-3   | 0                 | 0       | 1       | 1       | 2       | 2       | 2       | 3      |
| 18       | 7LTI | 0-3  | 0     | 0                 | 0       | 0       | 0       | 0       | 0       | 0       |        |
| 19       | 7CTI | 0-3  | 0     | 0                 | 0       | 0       | 0       | 0       | 0       | 0       |        |
| 20       | 7VML | 0-15 | 0     | 0                 | 0       | 0       | 0       | 0       | 0       | 0       |        |
| 21       | 7VMC | 0-3  | 0     | 0                 | 1       | 1       | 2       | 2       | 2       | 3       |        |
| 22       | MIDD | 0-63 | 0     | 0                 | 1       | 1       | 2       | 2       | 2       | 3       |        |

| Category | No  | Item | Range | *NOT be memorized |
|----------|-----|------|-------|-------------------|
| 3DNR     | 0   | WHCT | 0-63  | 44                |
|          | 1   | NIQM | 0,1   | 1                 |
|          | 2   | CLPW | 0-63  | 30                |
|          | 3   | CLPP | 0-255 | 80                |
|          | 4   | YHBW | 0-255 | 138               |
|          | 5   | YBKL | 0-15  | 0                 |
|          | 6   | YBKO | 0,1   | 0                 |
|          | 7   | MUTE | 0,1   | 0                 |
|          | 8   | YHBS | 0-127 | 40                |
|          | 9   | CHBW | 0-255 | 138               |
|          | 10  | CBKO | 0-127 | 40                |
|          | 11  | CHBO | 0,1   | 0                 |
|          | 12  | VHBL | 0-15  | 0                 |
|          | 13  | UHBL | 0-15  | 0                 |
|          | 14  | UVDL | 0-7   | 0                 |
|          | 15  | YDL  | 0-7   | 0                 |
|          | 16  | PVDI | 0,1   | 0                 |
|          | 17  | PHDI | 0,1   | 0                 |
|          | 18  | HDW  | 0-63  | 16                |
|          | 19  | PVDO | 0,1   | 0                 |
|          | 20  | PHDO | 0,1   | 0                 |
|          | 21  | HST  | 0-255 | 54                |
|          | 22  | VDL  | 0-15  | 0                 |
|          | 23  | VDW  | 0-15  | 44                |
|          | 24  | NDET | 0-15  | 1                 |
|          | 25  | NVP  | 0-15  | 30                |
|          | 26  | NDTS | 0-3   | 80                |
|          | 27  | HROF | 0,1   | 138               |
|          | 28  | NDGW | 0-15  | 0                 |
|          | 29  | UOFS | 0-7   | 1                 |
|          | 30  | POT  | 0-3   | 0                 |
|          | 31  | UVF  | 0,1   | 40                |
|          | 32  | APC  | 0,1   | 138               |
| 33       | DAP | 0,1  | 40    |                   |

| Category | No  | Item  | Range | *NOT be memorized |        |          |        |       |        |      |        |  |
|----------|-----|-------|-------|-------------------|--------|----------|--------|-------|--------|------|--------|--|
|          |     |       |       | Vivid             |        | Standard |        | Movie |        | Pro  |        |  |
|          |     |       |       | 480i              | Others | 480i     | Others | 480i  | Others | 480i | Others |  |
| 3DNR     | 34  | YLV   | 0-15  | 15                | 15     | 10       | 10     | 10    | 10     | 8    | 8      |  |
|          | 35  | YST   | 0,1   | 0                 |        |          |        |       |        |      |        |  |
|          | 36  | YNT   | 0,1   | 1                 |        |          |        |       |        |      |        |  |
|          | 37  | YPL   | 0,1   | 1                 |        |          |        |       |        |      |        |  |
|          | 38  | YMV   | 0,1   | 0                 |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          | 39  | YCR   | 0-31  | 3                 | 3      | 3        | 3      | 3     | 3      | 3    | 3      |  |
|          | 40  | VOS   | 0-7   | 1                 |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          | 41  | YMG   | 0-3   | 3                 | 3      | 3        | 3      | 3     | 3      | 3    | 3      |  |
|          | 42  | YEG   | 0,1   | 1                 |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
|          | 43  | YEL   | 0-15  | 6                 | 6      | 6        | 6      | 6     | 6      | 6    | 6      |  |
| 44       | YLM | 0-127 | 6     | 6                 | 6      | 6        | 6      | 6     | 6      | 6    |        |  |
| 45       | CLV | 0-15  | 15    | 15                | 10     | 10       | 10     | 10    | 8      | 8    |        |  |
|          |     |       |       |                   |        |          |        |       |        |      |        |  |
| 46       | CNT | 0,1   | 1     |                   |        |          |        |       |        |      |        |  |
| 47       | CPL | 0,1   | 1     |                   |        |          |        |       |        |      |        |  |

| Category | No | Item  | Range | *NOT be memorized |                       |          |          |        |        |        |        |        |
|----------|----|-------|-------|-------------------|-----------------------|----------|----------|--------|--------|--------|--------|--------|
|          |    |       |       | Vivid             |                       | Standard |          | Movie  |        | Pro    |        |        |
|          |    |       |       | 480i              | Others                | 480i     | Others   | 480i   | Others | 480i   | Others |        |
| 3DNR     | 48 | CMG   | 0-3   | 3                 | 3                     | 3        | 3        | 3      | 3      | 3      | 3      | 3      |
|          | 49 | CCR   | 0-31  | 6                 | 6                     | 6        | 6        | 6      | 6      | 6      | 6      | 6      |
|          | 50 | CLM   | 0-127 | 6                 | 6                     | 6        | 6        | 6      | 6      | 6      | 6      | 6      |
|          | 51 | NVSL  | 0-255 | 20                |                       |          |          |        |        |        |        |        |
|          | 52 | NVSH  | 0,1   | 0                 |                       |          |          |        |        |        |        |        |
|          | 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  | 0                 | 0                     | 0        | 0        | 0      | 0      | 0      | 0      |        |
|          | 61 | YNC   | 0-15  | 15                | 15                    | 10       | 10       | 10     | 10     | 8      | 8      |        |
|          | 62 | YCO   | 0,1   | 0                 | 0                     | 0        | 0        | 0      | 0      | 0      | 0      |        |
|          | 63 | ADTH  | 0,1   | 0                 |                       |          |          |        |        |        |        |        |
| HDMI     | 0  | WP    | 0,1   | 0*                |                       |          |          |        |        |        |        |        |
|          | 1  | INP   | 0~3   | 1                 |                       |          |          |        |        |        |        |        |
|          | 2  | INFO  | 0,1   | 0*                |                       |          |          |        |        |        |        |        |
| OP       | 0  | DLY1  | 0-31  | 4                 |                       |          |          |        |        |        |        |        |
|          | 1  | DLY2  | 0-31  | 12                |                       |          |          |        |        |        |        |        |
|          | 2  | DLY3  | 0-15  | 7                 |                       |          |          |        |        |        |        |        |
|          | 3  | OSDH  | 0-255 | 20                |                       |          |          |        |        |        |        |        |
|          | 4  | HDPT  | 0,1   | 1                 | Note: CXA2170 Setting |          |          |        |        |        |        |        |
|          | 5  | MSBG  | 0-255 | 0                 |                       |          |          |        |        |        |        |        |
|          | 6  | AACK* | 0-3   | 2                 |                       |          |          |        |        |        |        |        |
|          | 7  | RAMW* | 0-3   | 0*                |                       |          |          |        |        |        |        |        |

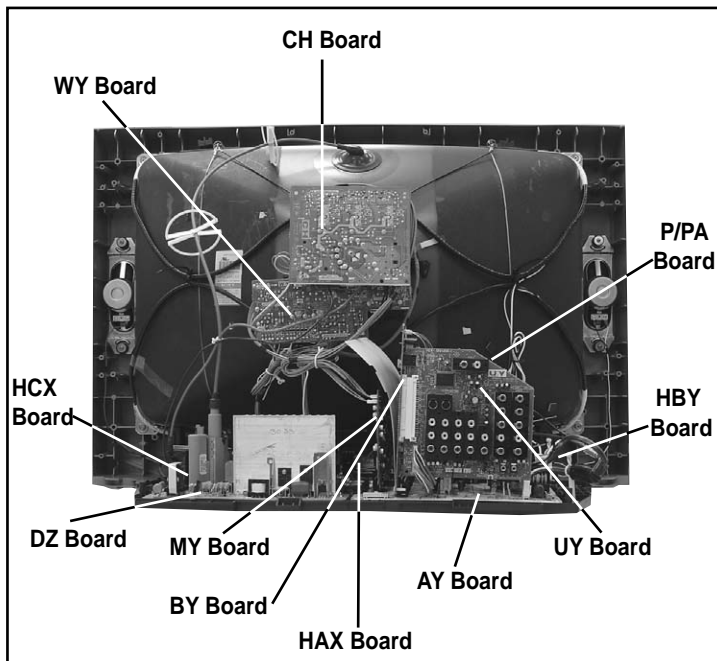
4-5.ID MAP TABLE

| Category | No | Item | Range | *NOT be memorized       |       |             |     |            |     |            |     |     |                          |     |     |
|----------|----|------|-------|-------------------------|-------|-------------|-----|------------|-----|------------|-----|-----|--------------------------|-----|-----|
|          |    |      |       | DA4-2004HS (4x3) Models |       |             |     |            |     |            |     |     | DA4-2004HS (16x9) Models |     |     |
|          |    |      |       | KV-27HS420              |       | KV-29DRC420 |     | KV-32HS420 |     | KV-36HS420 |     |     | KV-30HS420               |     |     |
|          |    | US   | CND   | North                   | South | US          | CND | US         | CND | HAW        | US  | CND | HAW                      | US  | CND |
| ID       | 0  | ID0  | 0-255 | 89                      | 89    | 89          | 89  | 89         | 89  | 89         | 89  | 89  | 89                       | 89  | 89  |
|          | 1  | ID1  | 0-255 | 217                     | 217   | 217         | 217 | 217        | 217 | 217        | 217 | 217 | 217                      | 217 | 217 |
|          | 2  | ID2  | 0-255 | 239                     | 239   | 239         | 239 | 239        | 239 | 239        | 239 | 239 | 239                      | 239 | 239 |
|          | 3  | ID3  | 0-255 | 106                     | 90    | 202         | 202 | 106        | 90  | 106        | 90  | 106 | 90                       | 106 | 90  |
|          | 4  | ID4  | 0-255 | 195                     | 195   | 195         | 195 | 195        | 195 | 195        | 195 | 195 | 195                      | 195 | 195 |
|          | 5  | ID5  | 0-255 | 240                     | 240   | 240         | 240 | 240        | 240 | 240        | 240 | 240 | 240                      | 240 | 240 |
|          | 6  | ID6  | 0-255 | 176                     | 176   | 176         | 176 | 176        | 176 | 176        | 176 | 176 | 176                      | 176 | 176 |
|          | 7  | ID7  | 0-255 | 16                      | 16    | 80          | 80  | 16         | 16  | 16         | 16  | 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 ( $\square$ )                      |
|--|---|
| <b>DZ BOARD:</b><br>IC6503, IC8001, IC8002,<br>IC8004, IC8005, IC8104,<br>D8022, PH8003, Q8007,<br>Q8008, R6590, R8012,<br>R8014, R8015, R8016,<br>R8017, R8019, R8021,<br>R8027, R8029, R8030,<br>R8031, R8035, R8036,<br>R8037, R8038, R8039,<br>R8040, R8043, R8046,<br>R8052, R8059, R8060,<br>R8066, R8072, R8078,<br>R8079, R8082, R8165,<br>T8001 | <b>HV ADJUST</b><br>No HV Adjustment Required |

### REFERENCE INFORMATION

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

### 5-2.PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$  :  $\mu\text{F}$  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 :  $\frac{1}{4}$  W

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

$\text{---}$  : B+line.

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

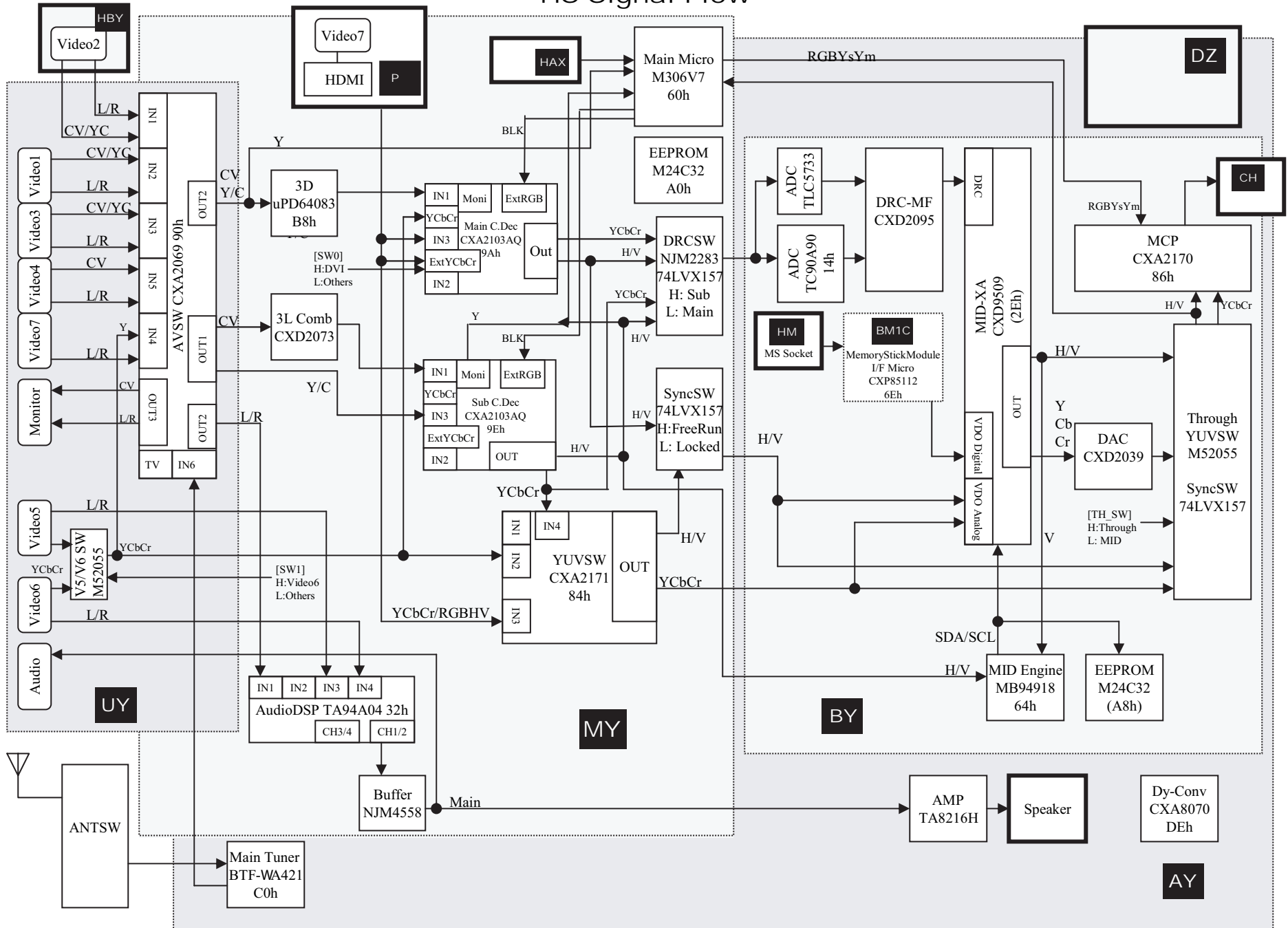
$\Rightarrow$  : signal path. (RF)

Circled numbers are waveform references.

5-3. BLOCK DIAGRAMS

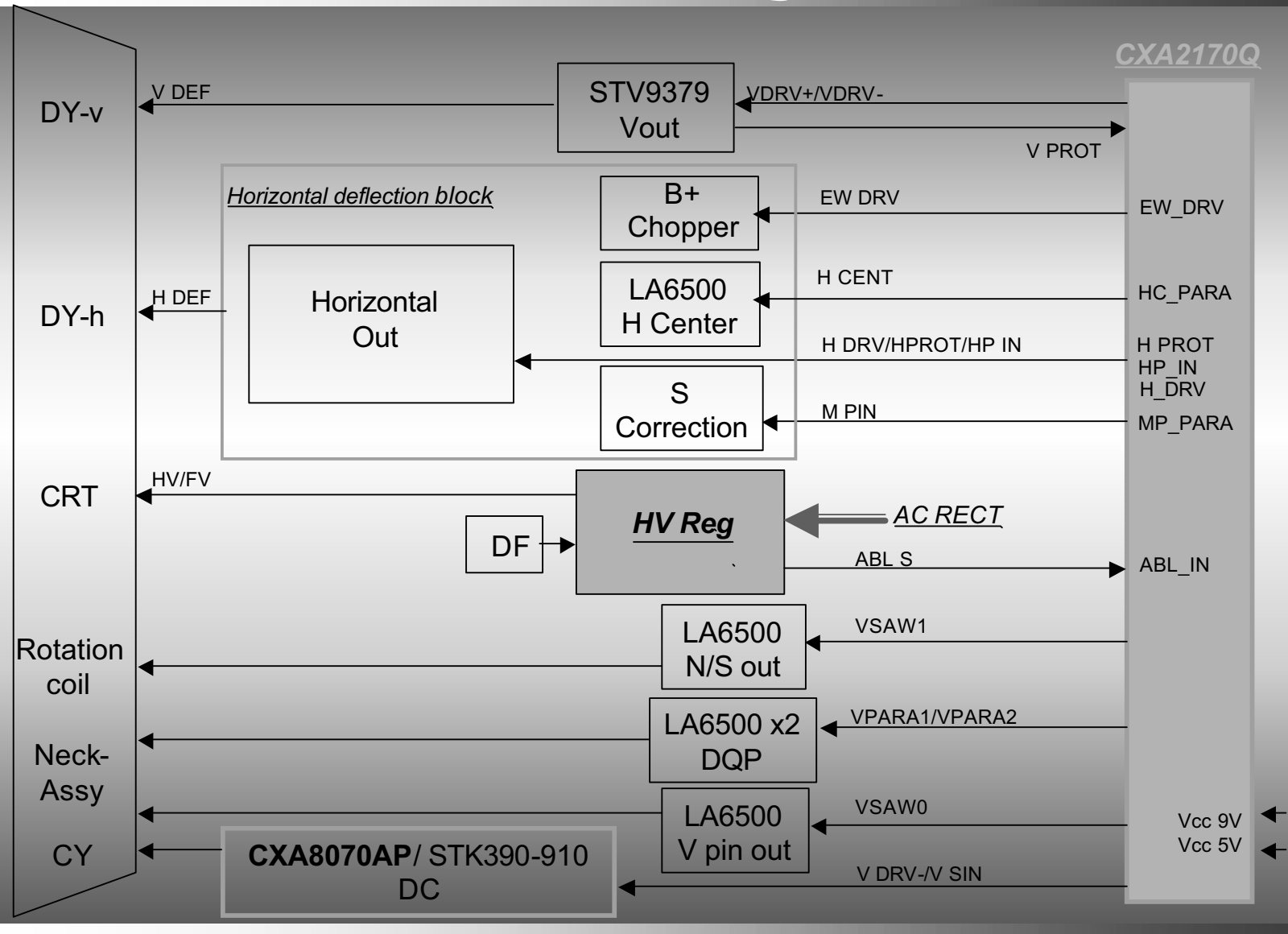
BLOCK DIAGRAMS (1 OF 3)

HS Signal Flow



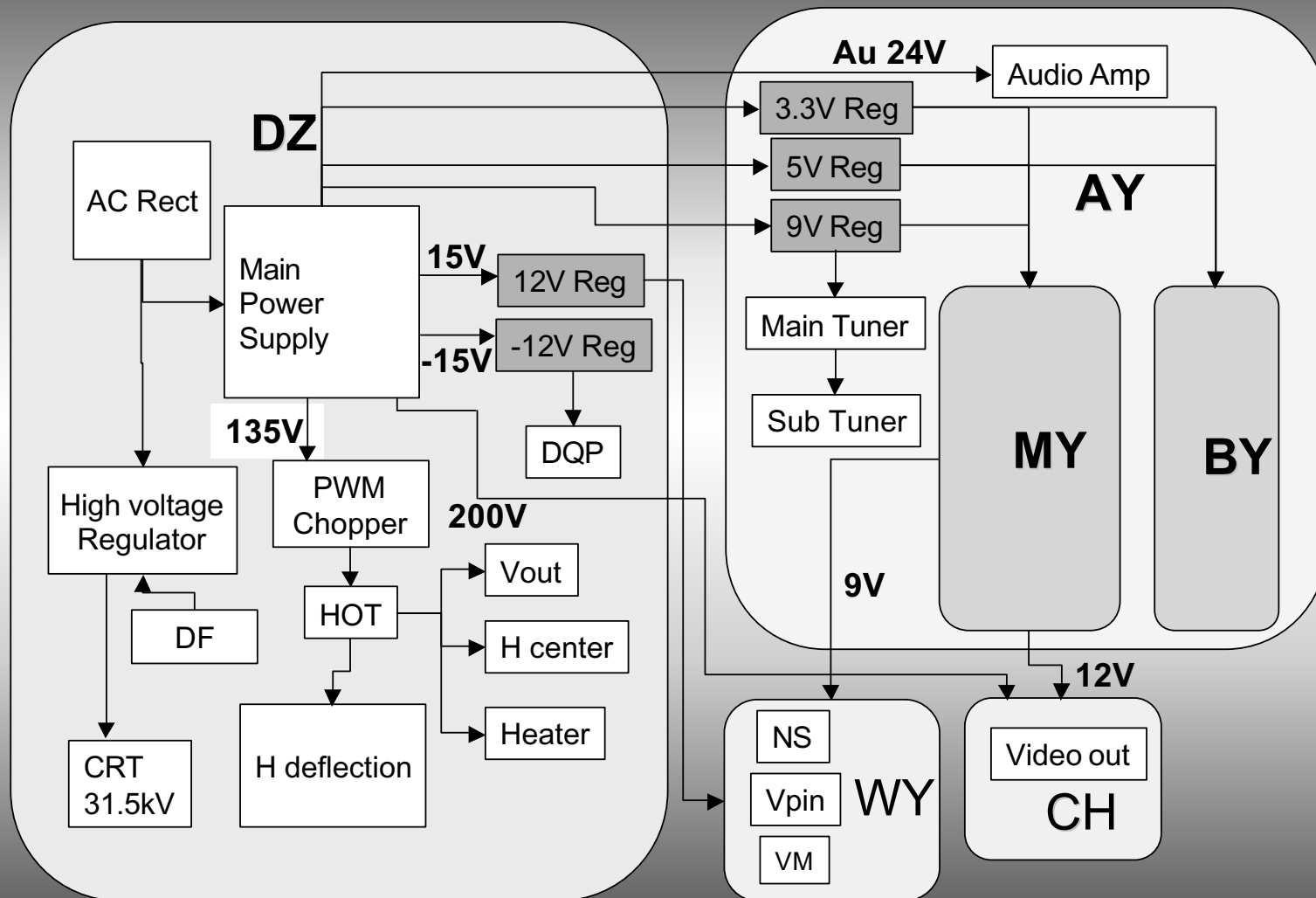
## BLOCK DIAGRAMS (2 OF 3)

# Deflection & HV System Block



## BLOCK DIAGRAMS (3 OF 3)

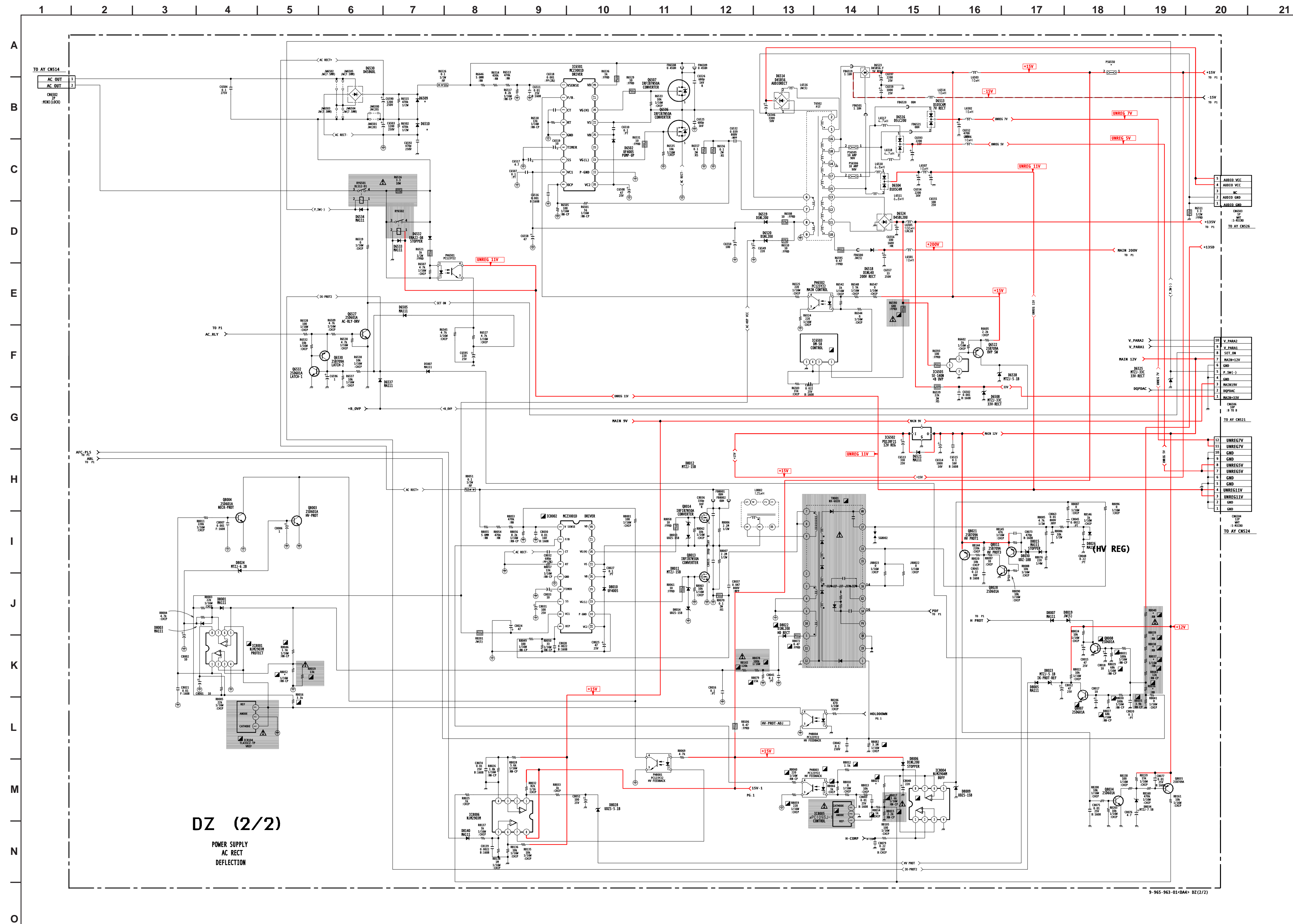
# Power Supply Load Map







DZ BOARD SCHEMATIC DIAGRAM (2 OF 2)



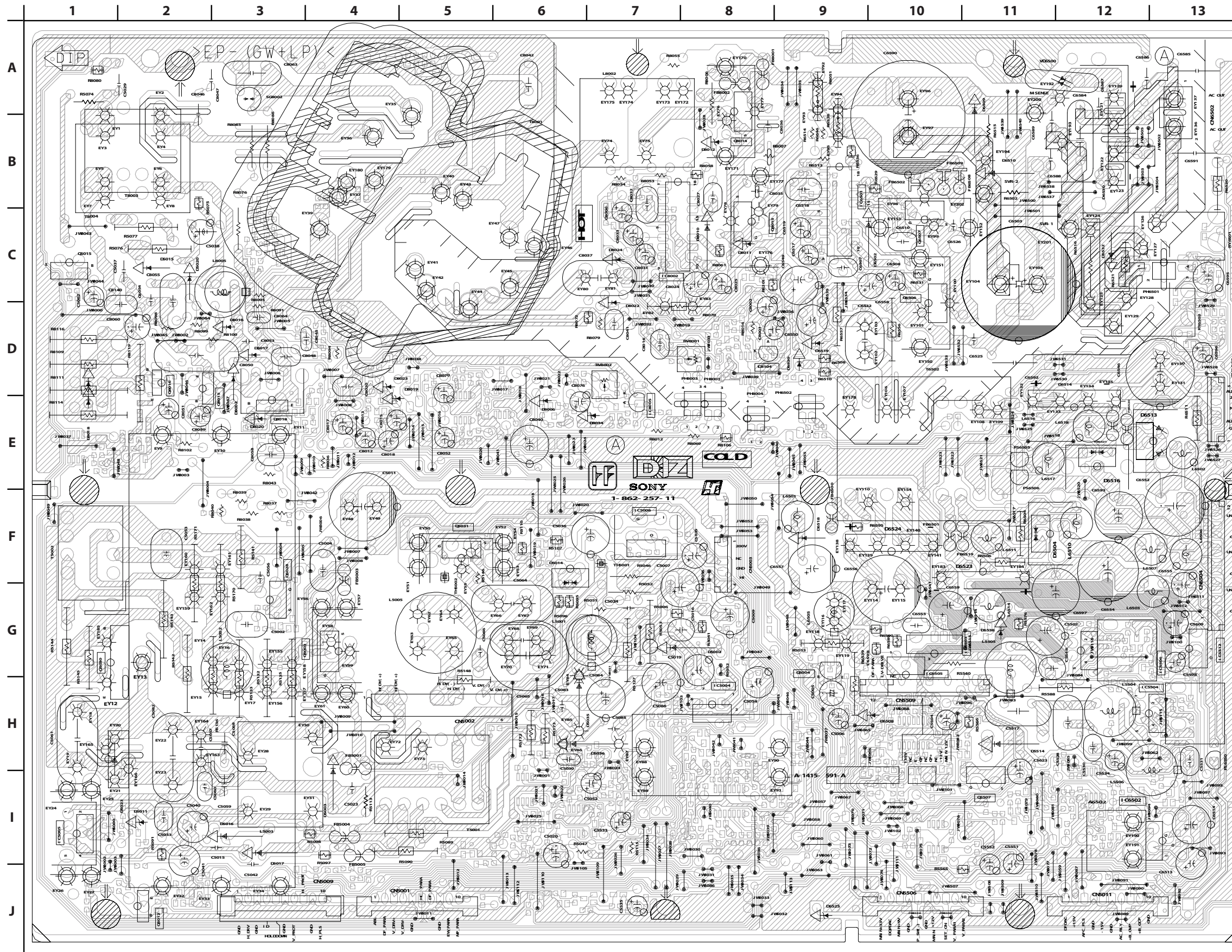
DZ BOARD TRANSISTOR VOLTAGE LIST

| Q     | B     | C     | E     | Q     | B     | C     | E     | Q     | D     | G     | S     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Q5001 | 4.8   | 12    | 4.9   | Q5505 | 0.4   | 9.0   | 0.0   | Q5003 | 10.9  | 128.8 | 135.0 |
| Q5002 | 4.8   | GND   | 4.9   | Q5506 | 0.0   | 2.7   | GND   | Q5028 | 63.9  | 3.8   | GND   |
| Q5004 | 133.3 | 3.7   | 132.7 | Q5510 | 0.7   | 8.3   | 0.8   | Q5031 | 14.6  | 2.1   | GND   |
| Q5005 | 0.0   | 14.1  | 0.2   | Q5512 | 4.4   | 12.0  | 3.8   | Q5507 | 10.5  | 6.9   | GND   |
| Q5006 | 11.2  | 12.0  | 10.7  | Q5513 | 1.3   | 8.7   | 4.2   | Q6506 | 140.1 | 4.8   | GND   |
| Q5007 | 11.4  | 12.1  | 12.0  | Q5568 | 6.9   | 12.0  | 7.0   | Q6507 | 305.6 | 145.1 | 140.1 |
| Q5008 | 0.7   | 0.0   | GND   | Q5569 | 6.9   | 0.0   | 7.0   | Q8013 | 136.0 | 4.5   | GND   |
| Q5009 | 0.0   | 0.0   | GND   | Q6522 | 15.4  | 0.0   | 15.4  | Q8014 | 305.0 | 131.0 | 136.0 |
| Q5010 | 0.1   | 0.8   | GND   | Q6527 | 0.8   | 0.1   | GND   |       |       |       |       |
| Q5011 | 0.0   | 0.0   | GND   | Q6530 | 3.2   | 0.0   | 3.2   |       |       |       |       |
| Q5012 | 3.4   | 97.5  | 2.9   | Q6532 | 0.0   | 3.2   | GND   |       |       |       |       |
| Q5013 | 2.8   | GND   | 3.4   | Q8003 | 0.1   | 2.6   | GND   |       |       |       |       |
| Q5014 | 8.9   | 0.0   | 9.0   | Q8004 | 0.1   | 2.6   | GND   |       |       |       |       |
| Q5015 | 2.1   | 105.0 | 1.5   | Q8007 | 0.6   | 0.1   | GND   |       |       |       |       |
| Q5018 | 0.7   | 0.0   | GND   | Q8008 | 0.6   | 0.1   | GND   |       |       |       |       |
| Q5019 | 2.2   | 9.0   | 2.1   | Q8011 | 11.9  | 0.0   | 12.0  |       |       |       |       |
| Q5020 | 2.2   | GND   | 2.1   | Q8015 | 0.6   | 0.0   | GND   |       |       |       |       |
| Q5021 | 0.9   | 9.0   | 1.3   | Q8016 | 132.6 | 132.4 | 133.3 |       |       |       |       |
| Q5022 | 0.6   | GND   | 1.2   | Q8018 | 0.0   | 86.6  | GND   |       |       |       |       |
| Q5023 | 0.2   | 3.9   | GND   | Q8019 | 0.6   | 0.0   | GND   |       |       |       |       |
| Q5024 | 2.4   | 9.0   | 2.2   | Q8020 | 0.0   | 0.6   | GND   |       |       |       |       |
| Q5025 | 0.9   | -15.0 | 1.3   | Q8021 | 11.7  | 0.0   | 12.0  |       |       |       |       |
| Q5026 | 3.8   | 9.0   | 3.8   | Q8022 | 3.4   | GND   | 3.5   |       |       |       |       |
| Q5027 | 3.8   | 0.0   | 3.8   | Q8023 | 3.4   | 9.0   | 3.5   |       |       |       |       |
| Q5030 | 0.0   | 84.3  | GND   | Q8028 | 0.0   | 11.7  | GND   |       |       |       |       |
| Q5035 | 0.0   | 2.1   | GND   | Q8034 | 0.0   | 12.0  | GND   |       |       |       |       |
| Q5036 | 0.2   | 3.8   | GND   | Q8035 | 11.6  | 2.5   | 12.0  |       |       |       |       |
| Q5501 | 0.5   | 3.4   | GND   |       |       |       |       |       |       |       |       |
| Q5502 | 0.0   | 6.9   | GND   |       |       |       |       |       |       |       |       |
| Q5503 | 0.0   | 0.5   | GND   |       |       |       |       |       |       |       |       |
| Q5504 | 0.2   | -12.0 | 0.8   |       |       |       |       |       |       |       |       |

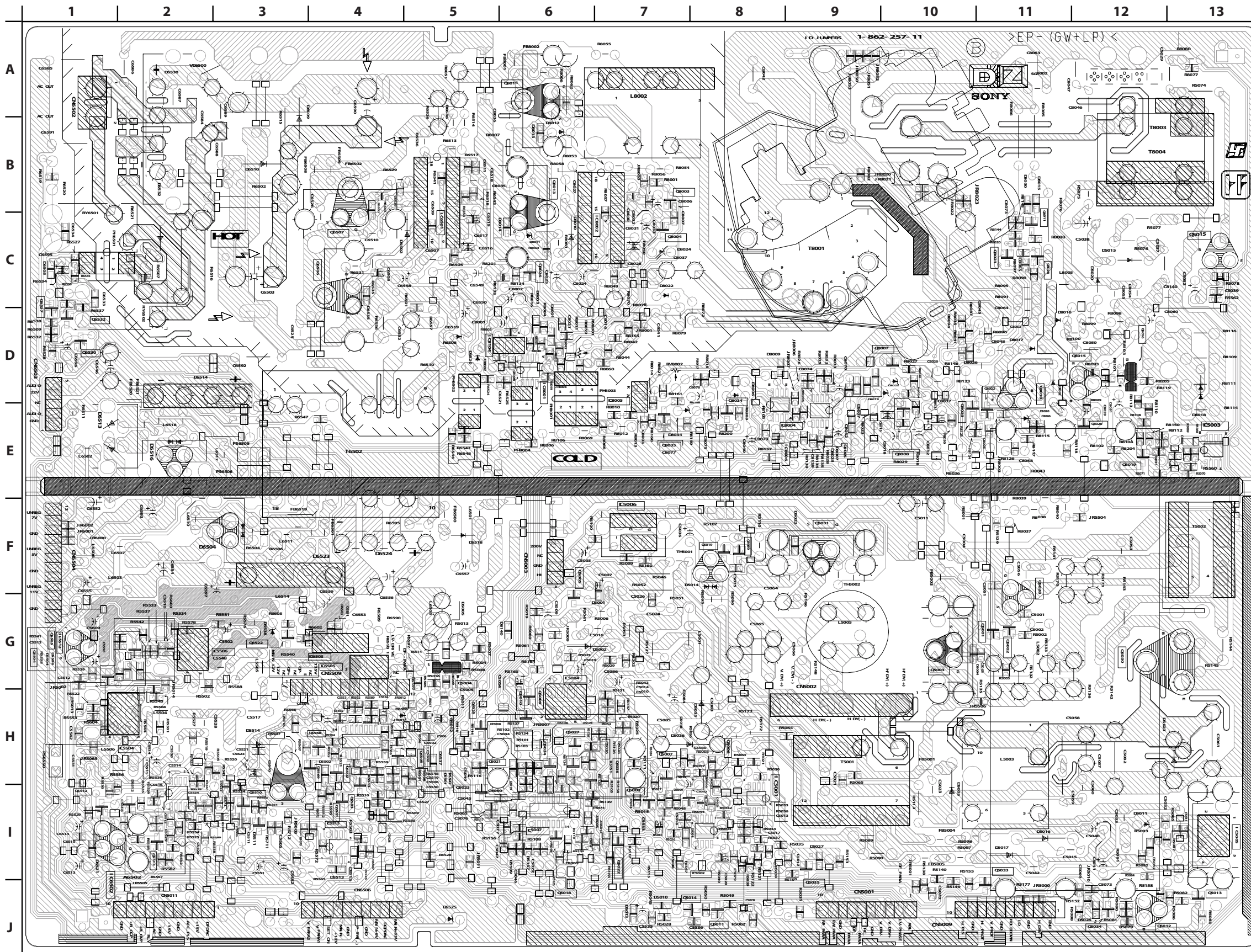
All voltages are in V.



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





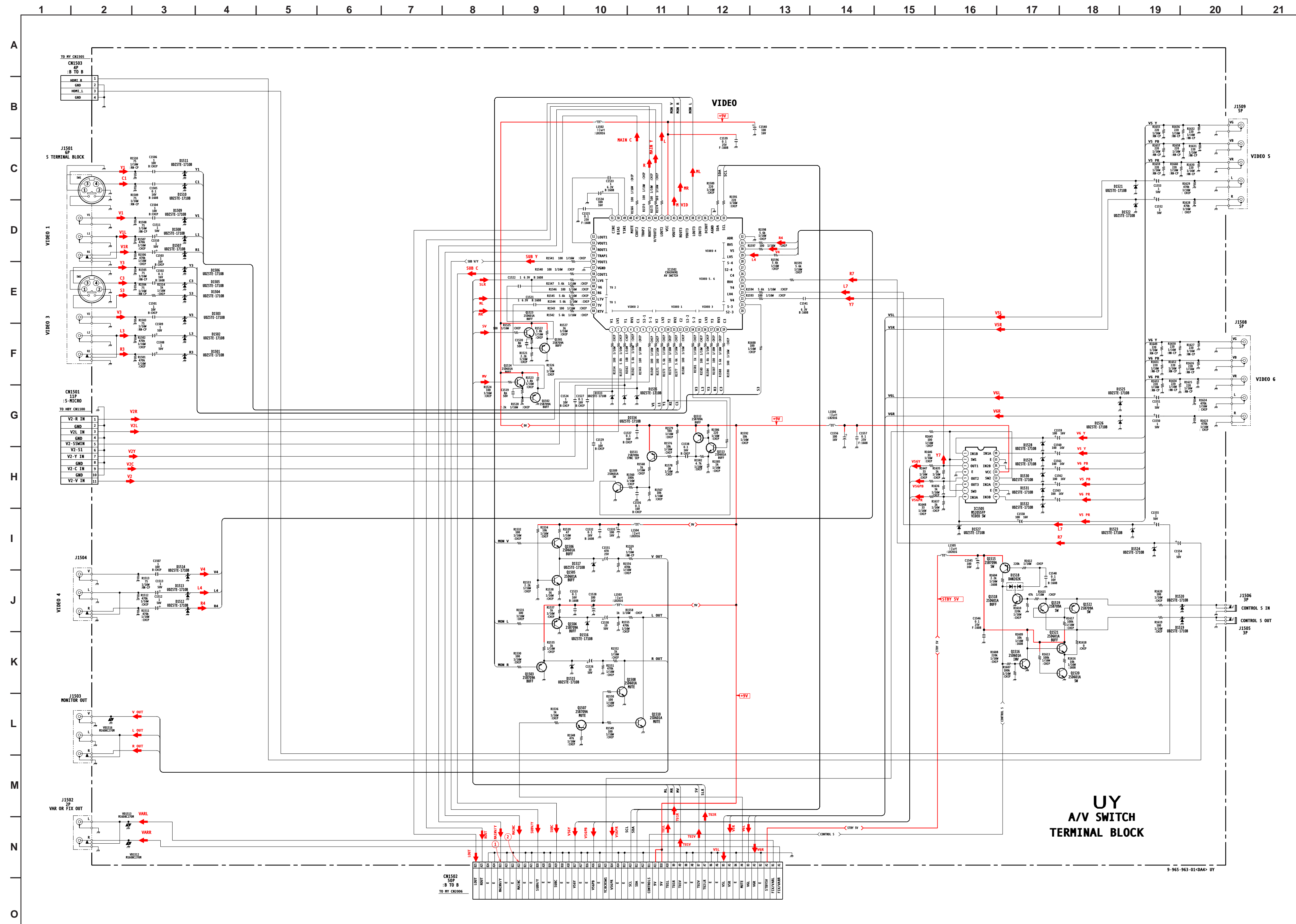


**DZ BOARD LOCATOR LIST**

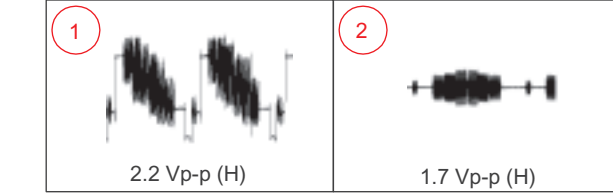
| DIODE |      | DIODE             |      | TRANSISTOR |      |
|-------|------|-------------------|------|------------|------|
| D5001 | F-7  | D8003             | C-6  | Q5009      | G-6  |
| D5002 | G-7  | D8005             | E-9  | Q5010      | G-6  |
| D5003 | H-10 | D8006             | D-8  | Q5011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



UY BOARD SCHEMATIC DIAGRAM



UY BOARD WAVEFORMS



UY BOARD IC VOLTAGE LIST

| IC1502 |      | 21 | 4.9 | 43 | 4.5 | IC1505 |      |
|--------|------|----|-----|----|-----|--------|------|
| PIN    | VOLT |    |     |    |     | PIN    | VOLT |
| 1      | 3.9  | 23 | 4.5 | 45 | 4.5 | 1      | 4.7  |
| 2      | 4.5  | 24 | N/C | 46 | N/C | 2      | 0.0  |
| 3      | 3.9  | 25 | 4.5 | 47 | 4.4 | 3      | 3.2  |
| 4      | 4.5  | 26 | N/C | 48 | N/C | 4      | GND  |
| 5      | 4.5  | 27 | N/C | 49 | 4.9 | 5      | 3.2  |
| 6      | N/C  | 28 | N/C | 50 | 4.5 | 6      | 3.2  |
| 7      | 4.9  | 29 | 4.5 | 51 | 4.5 | 7      | 0.0  |
| 8      | 4.3  | 30 | 3.9 | 52 | N/C | 8      | 4.6  |
| 9      | 4.5  | 31 | 4.5 | 53 | 4.4 | 9      | 4.6  |
| 10     | 3.9  | 32 | GND | 54 | N/C | 10     | GND  |
| 11     | 4.5  | 33 | 4.6 | 55 | N/C | 11     | 4.7  |
| 12     | 4.5  | 34 | 4.6 | 56 | 4.1 | 12     | 0.0  |
| 13     | N/C  | 35 | GND | 57 | GND | 13     | 9.0  |
| 14     | 4.9  | 36 | N/C | 58 | 4.4 | 14     | 4.7  |
| 15     | 3.9  | 37 | N/C | 59 | 4.5 | 15     | GND  |
| 16     | 4.5  | 38 | 4.5 | 60 | 5.0 | 16     | 4.7  |
| 17     | 3.9  | 39 | N/C | 61 | 4.5 |        |      |
| 18     | 4.5  | 40 | 4.5 | 62 | 4.5 |        |      |
| 19     | 4.5  | 41 | 4.4 | 63 | 4.9 |        |      |
| 20     | N/C  | 42 | 9.0 | 64 | 4.5 |        |      |

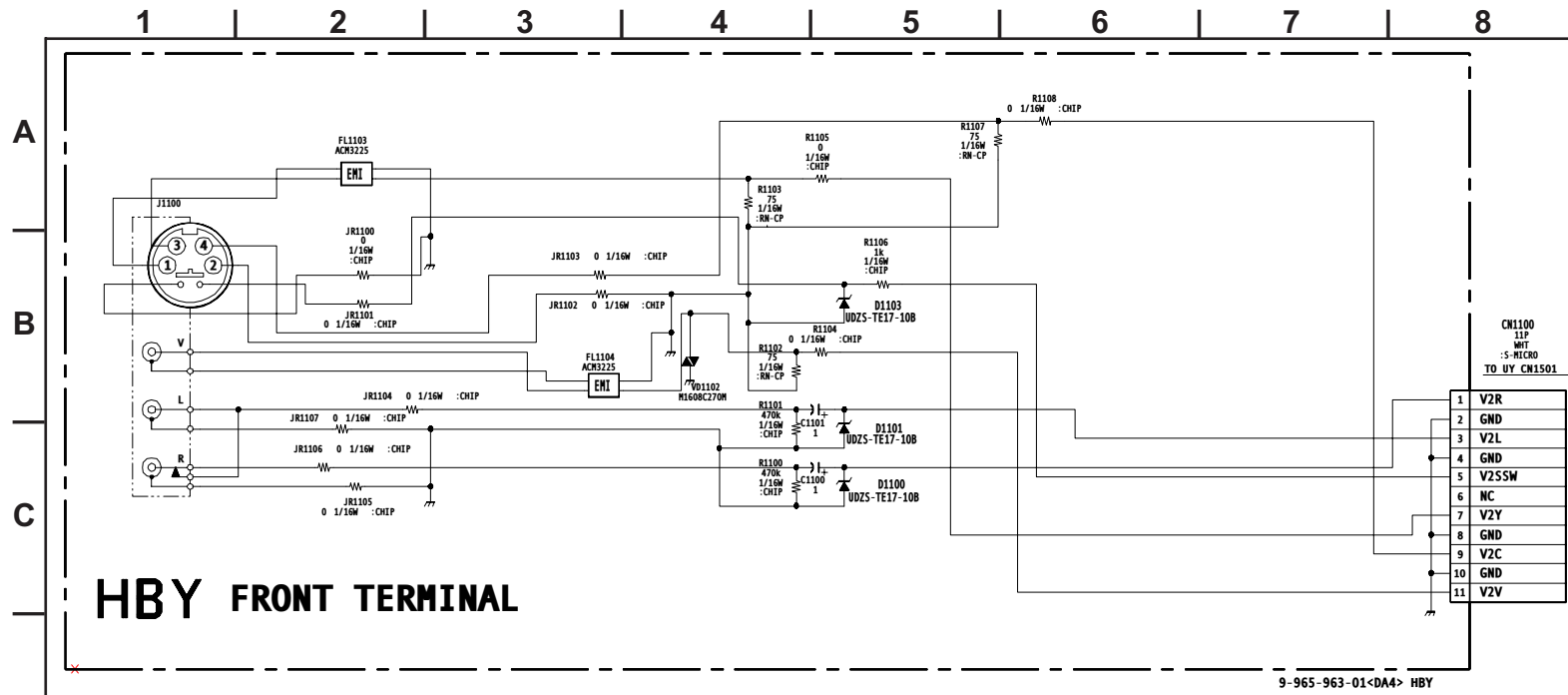
All voltages are in V.

UY BOARD TRANSISTOR VOLTAGE LIST

|       | B   | C   | E   |
|-------|-----|-----|-----|
| Q1501 | 2.0 | GND | 2.7 |
| Q1502 | 3.3 | GND | 4.0 |
| Q1503 | 4.5 | GND | 5.2 |
| Q1504 | 4.5 | GND | 5.2 |
| Q1505 | 1.6 | 3.7 | 0.9 |
| Q1506 | 4.4 | 8.3 | 3.8 |
| Q1507 | 0.0 | 0.0 | 0.0 |
| Q1508 | 0.0 | 0.0 | GND |
| Q1509 | 0.0 | 4.9 | GND |
| Q1510 | 0.0 | 0.0 | GND |
| Q1511 | 8.5 | 0.0 | 9.0 |
| Q1512 | 8.4 | 5.3 | 9.0 |
| Q1513 | 3.8 | 8.4 | 3.2 |
| Q1515 | 4.9 | 4.2 | 5.0 |
| Q1516 | 0.6 | 0.1 | GND |
| Q1518 | 0.0 | 4.9 | GND |
| Q1519 | 5.0 | 0.0 | 0.0 |
| Q1520 | 0.6 | 0.0 | GND |
| Q1521 | 0.1 | 5.0 | 0.0 |
| Q1522 | 5.0 | 0.0 | 0.0 |
| Q1523 | 4.5 | 9.0 | 3.9 |
| Q1524 | 6.5 | 9.0 | 3.9 |

All voltages are in V.

# HBY BOARD SCHEMATIC DIAGRAM

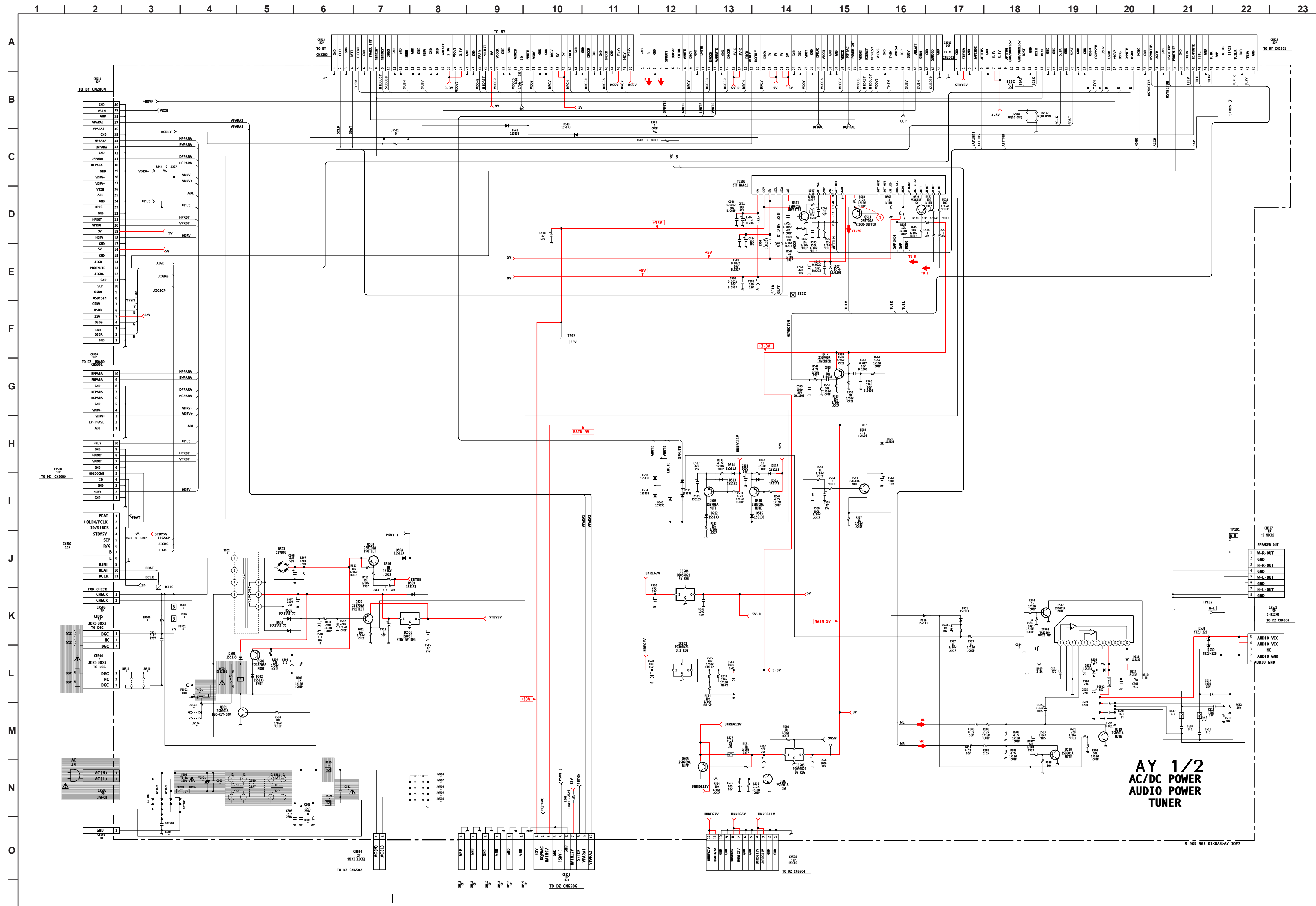




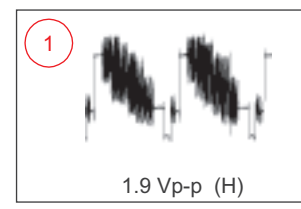




AY BOARD SCHEMATIC DIAGRAM (1 OF 2)



AY BOARD WAVEFORM



AY BOARD IC VOLTAGE LIST

| IC501 |      | IC508 |       | 8        |      | 3.3 |      |
|-------|------|-------|-------|----------|------|-----|------|
| PIN   | VOLT | PIN   | VOLT  | PIN      | VOLT | PIN | VOLT |
| 1     | 7.0  | 1     | 1.6   | IC903    |      |     |      |
| 0     | 5.0  | 2     | 0.1   | PIN VOLT |      |     |      |
| GND   | GND  | 3     | GND   | 1        | 4.9  |     |      |
|       |      | IC502 |       |          |      |     |      |
| PIN   | VOLT | 5     | 1.6   | 3        | 4.9  |     |      |
| 1     | 5.0  | 6     | 7.9   | 4        | 4.9  |     |      |
| 0     | 3.3  | 7     | 11.0  | 5        | N/C  |     |      |
| GND   | GND  | 8     | 5.1   | 6        | 5.0  |     |      |
| 4     | 3.4  | 9     | 24.0  | 7        | 5.0  |     |      |
|       |      | IC504 |       |          |      |     |      |
| PIN   | VOLT | 10    | 0.0   | 8        | 5.0  |     |      |
| 1     | 7.0  | 11    | 4.4   | 9        | 5.0  |     |      |
| 0     | 5.0  | IC900 |       | 11       | 4.5  |     |      |
| GND   | GND  | PIN   | VOLT  | 12       | 5.0  |     |      |
| 4     | N/C  | 1     | 3.3   | 13       | 5.0  |     |      |
|       |      | IC505 |       |          |      |     |      |
| PIN   | VOLT | 2     | 3.3   | 14       | 1.2  |     |      |
| 1     | 11.0 | 3     | 0.1   | 15       | 5.0  |     |      |
| 0     | 9.0  | 5     | -15.7 | 16       | 4.6  |     |      |
| GND   | GND  | 6     | 15.3  | 17       | 4.6  |     |      |
| 4     | 2.3  | 7     | N/C   | 18       | GND  |     |      |

All voltages are in V.

AY BOARD TRANSISTOR VOLTAGE LIST

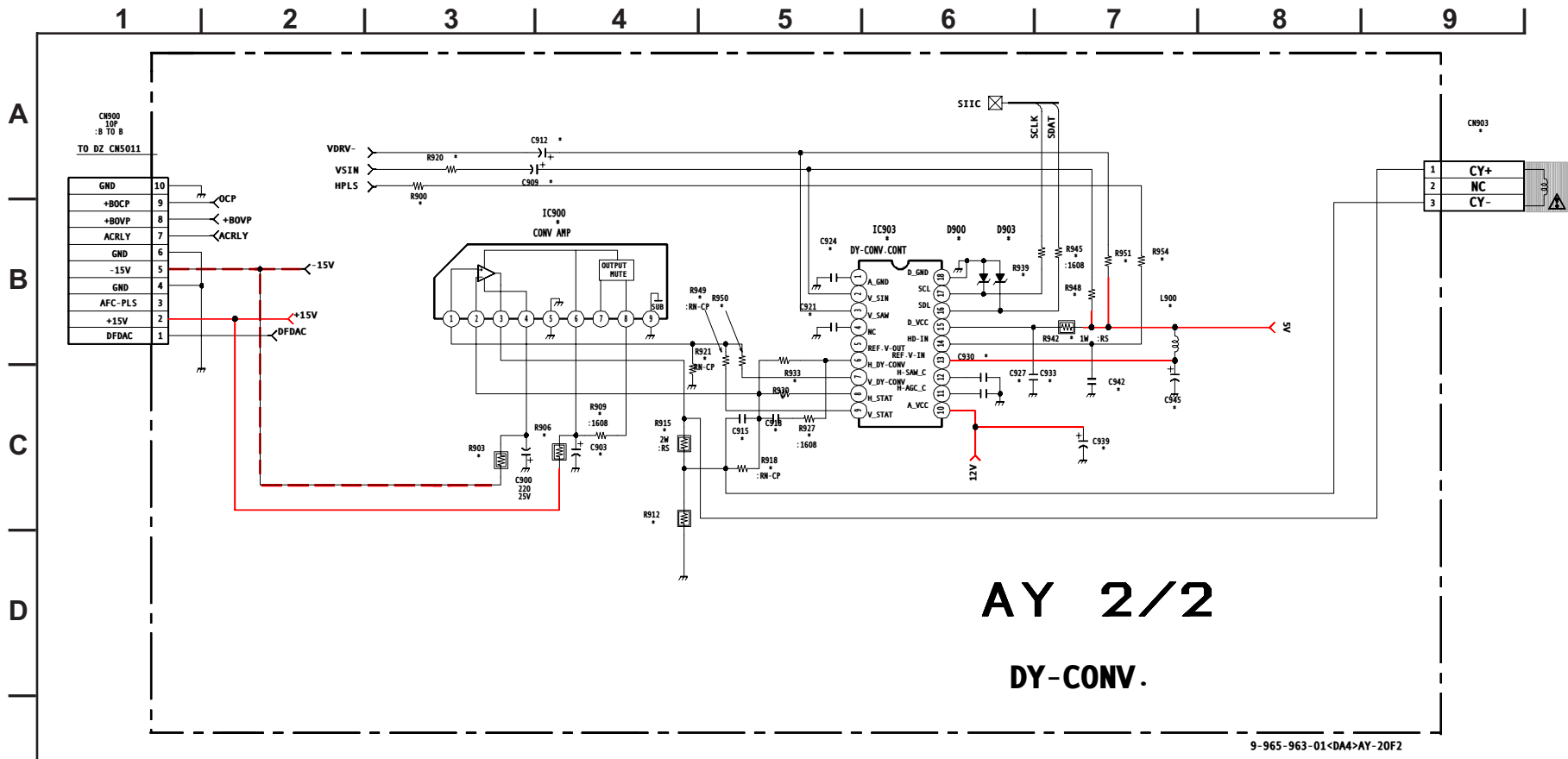
| Q    | B    | C    | E    |
|------|------|------|------|
| Q501 | 0.1  | 19.4 | GND  |
| Q502 | 21.3 | 19.4 | 21.3 |
| Q503 | 21.2 | 0.2  | 21.3 |
| Q505 | 10.0 | 0.1  | 11.0 |
| Q507 | 0.1  | 2.3  | GND  |
| Q508 | 10.5 | 0.3  | 0.0  |
| Q510 | 12.0 | 0.0  | 12.0 |
| Q511 | 0.1  | 7.5  | GND  |
| Q512 | 3.3  | 0.5  | 3.3  |
| Q513 | 0.0  | 9.0  | 0.0  |
| Q514 | 5.9  | GND  | 6.5  |
| Q517 | 0.0  | 4.4  | GND  |
| Q518 | 0.0  | 0.0  | GND  |
| Q519 | 0.0  | 0.0  | GND  |
| Q524 | 0.7  | 0.1  | GND  |
| Q527 | 9.8  | 0.0  | 5.0  |

All voltages are in V.

AY 1/2  
AC/DC POWER  
AUDIO POWER  
TUNER

9-965-963-01-00M-AY-10F2

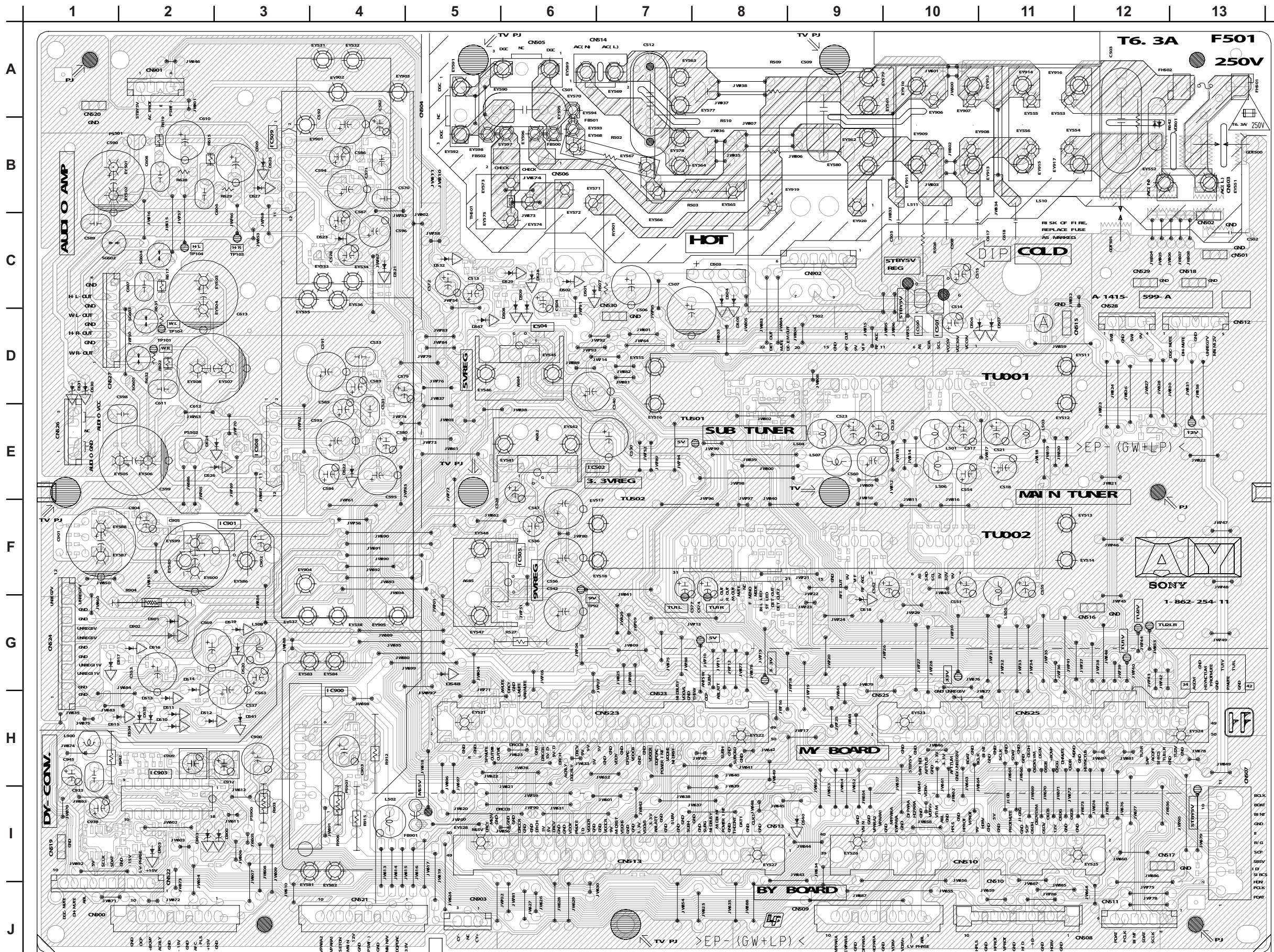
AY BOARD SCHEMATIC DIAGRAM (2 OF 2)



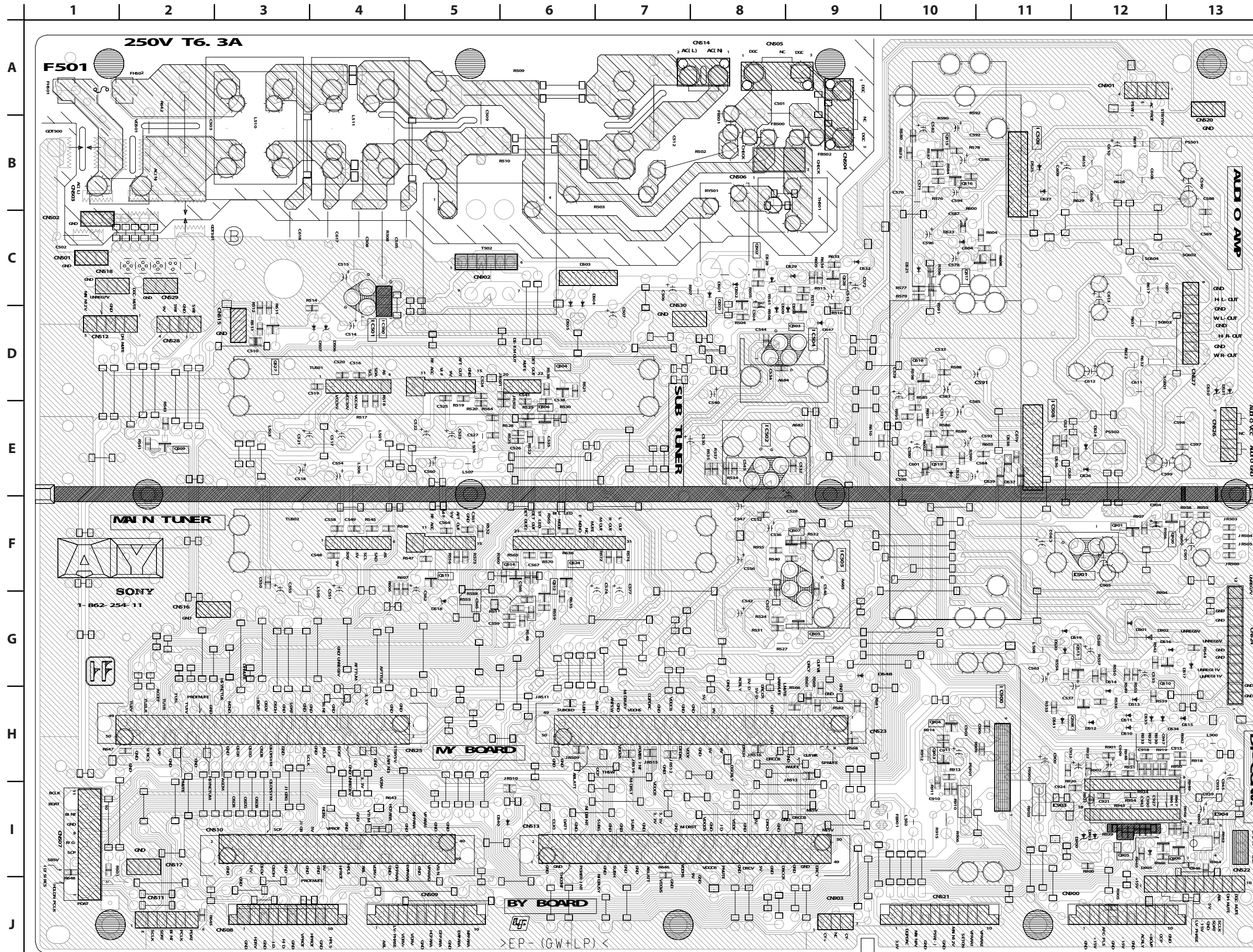




[AC/DC POWER, AUDIO POWER, TUNER, DY-CONV.]  
COMPONENT SIDE





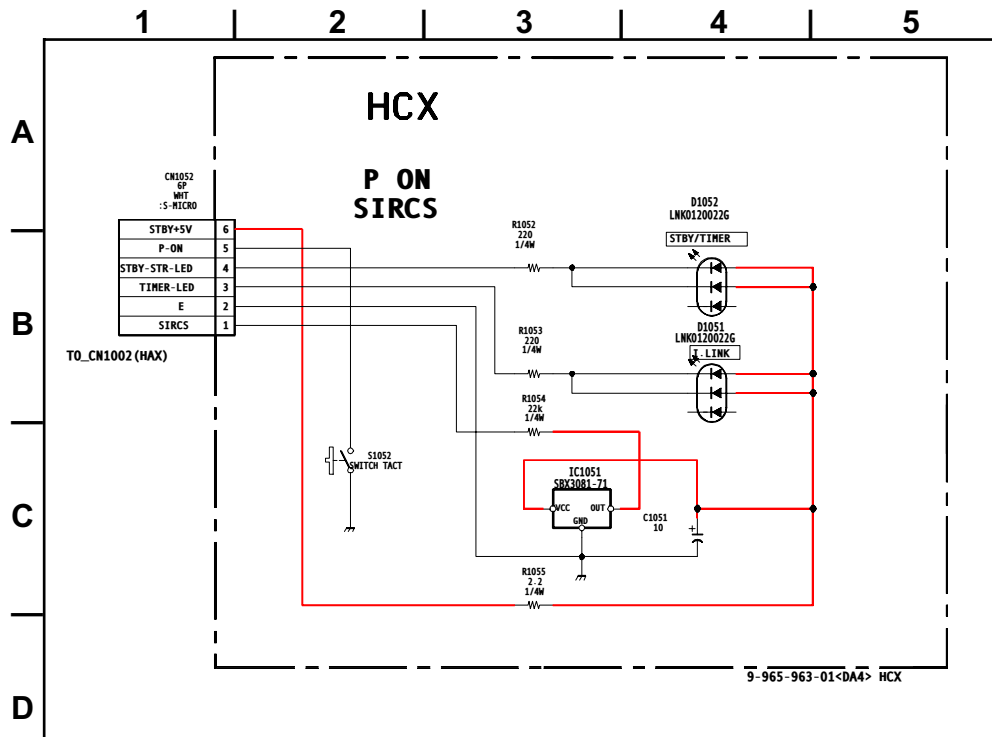


**AY BOARD LOCATOR LIST**  
**CONDUCTOR SIDE**

| DIODE |      | IC                |      |
|-------|------|-------------------|------|
| D501  | C-8  | IC501             | C-8  |
| D502  | C-8  | IC502             | C-8  |
| D503  | C-6  | IC504             | D-9  |
| D504  | C-7  | IC505             | F-9  |
| D505  | D-6  | IC508             | E-11 |
| D508  | C-9  | IC900             | G-10 |
| D509  | C-9  | IC903             | I-11 |
| D510  | H-12 | <b>TRANSISTOR</b> |      |
| D511  | H-12 | Q501              | C-8  |
| D512  | H-12 | Q502              | C-8  |
| D513  | G-12 | Q503              | D-9  |
| D514  | G-12 | Q505              | G-9  |
| D515  | H-13 | Q507              | F-9  |
| D516  | G-13 | Q508              | H-12 |
| D517  | G-13 | Q510              | G-12 |
| D519  | G-12 | Q511              | F-5  |
| D520  | G-12 | Q512              | F-6  |
| D521  | C-10 | Q513              | G-11 |
| D522  | E-10 | Q514              | F-6  |
| D524  | E-12 | Q517              | C-10 |
| D526  | E-12 | Q518              | D-10 |
| D530  | D-13 | Q519              | E-10 |
| D531  | D-13 | Q524              | F-6  |
| D534  | H-12 | Q527              | D-3  |
| D535  | H-11 |                   |      |
| D540  | I-6  |                   |      |
| D541  | H-11 |                   |      |
| D900  | I-11 |                   |      |
| D903  | I-12 |                   |      |

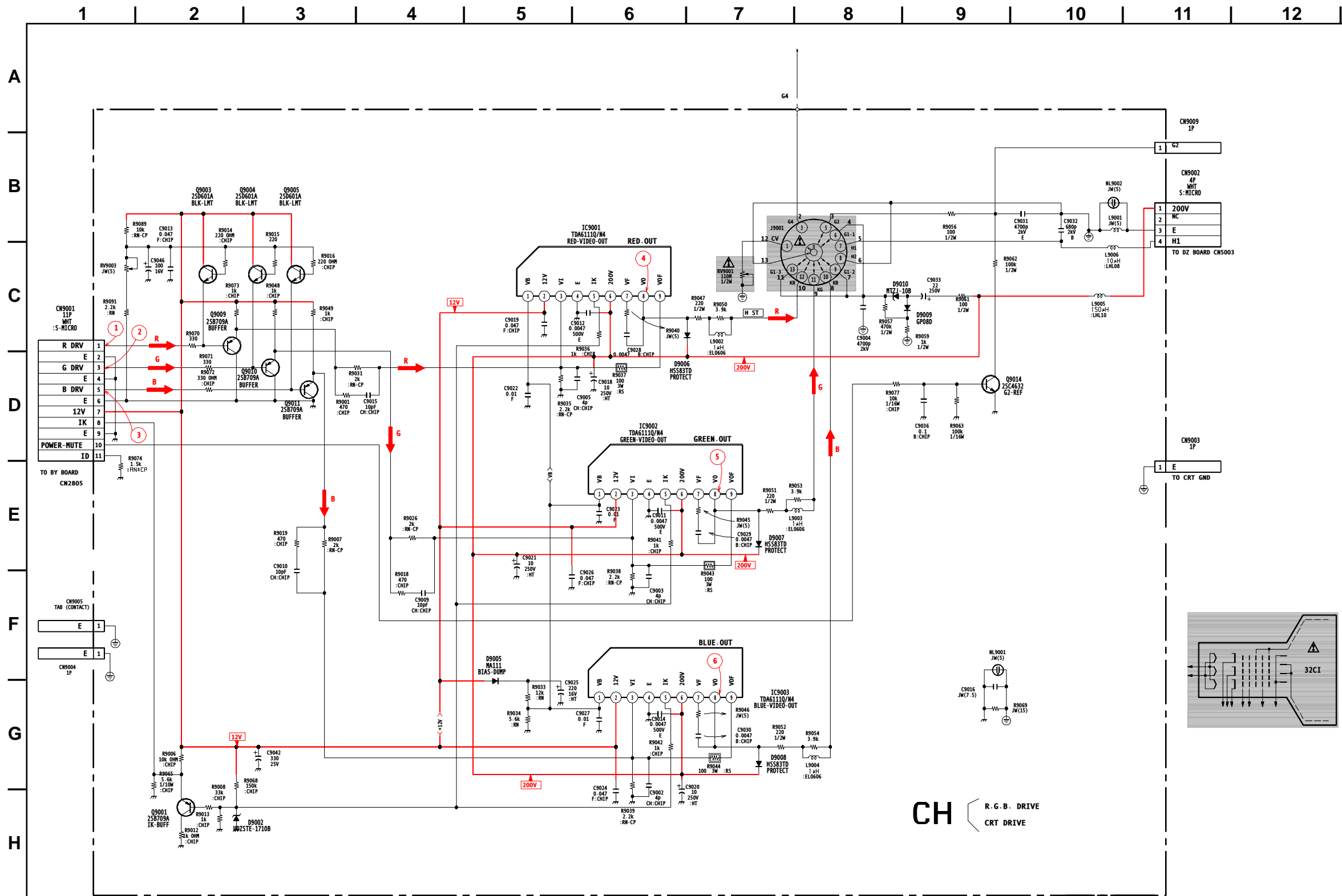


# HCX BOARD SCHEMATIC DIAGRAM

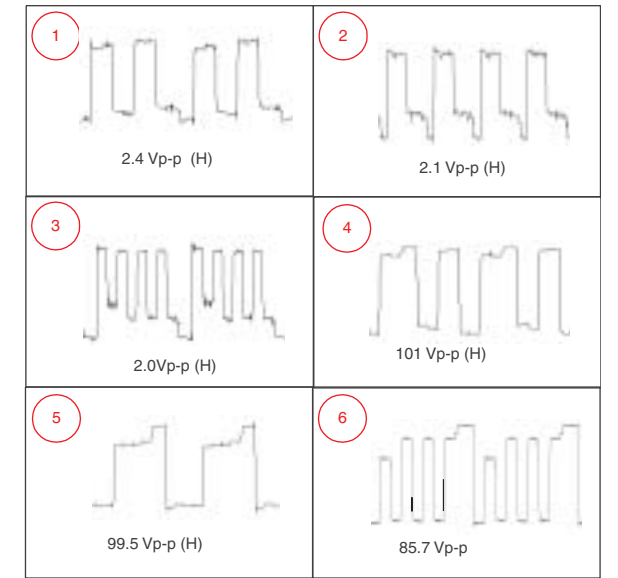




CH BOARD SCHEMATIC DIAGRAM



CH BOARD WAVEFORMS



CH BOARD IC VOLTAGE LIST

| IC9001 |       | IC9002 |       | IC9003 |       |
|--------|-------|--------|-------|--------|-------|
| PIN    | VOLT  | PIN    | VOLT  | PIN    | VOLT  |
| 1      | 3.5   | 1      | 3.5   | 1      | 3.5   |
| 2      | 12.0  | 2      | 12.0  | 2      | 12.0  |
| 3      | 3.5   | 3      | 3.5   | 3      | 3.5   |
| 4      | GND   | 4      | GND   | 4      | GND   |
| 5      | 9.4   | 5      | 9.2   | 5      | 9.2   |
| 6      | 200.0 | 6      | 200.0 | 6      | 200.0 |
| 7      | 32.1  | 7      | 124.5 | 7      | 3.0   |
| 8      | 144.4 | 8      | 154.0 | 8      | 145.0 |
| 9      | 2.2   | 9      | 124.0 | 9      | 24.5  |

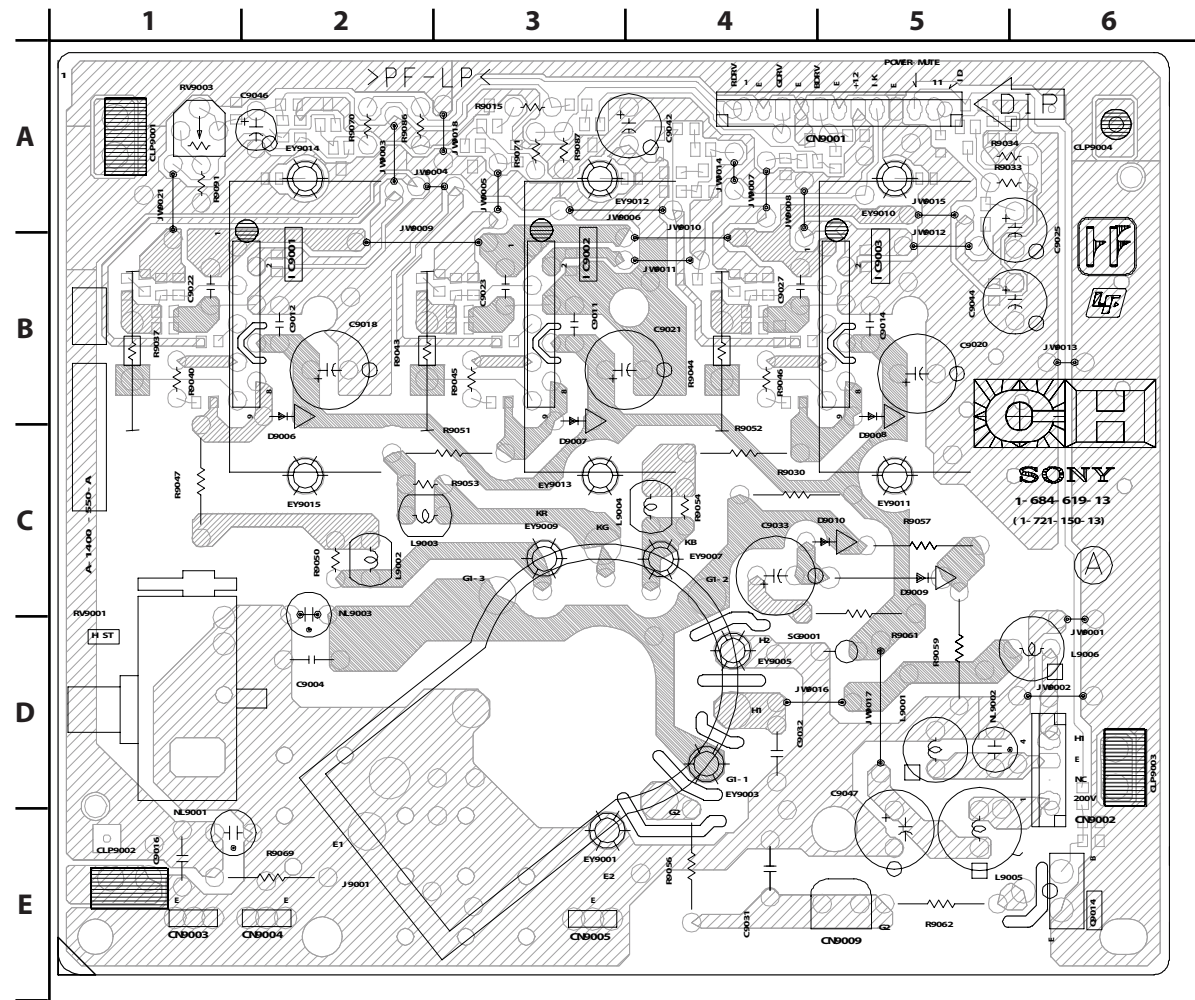
All voltages are in V.

CH BOARD TRANSISTOR VOLTAGE LIST

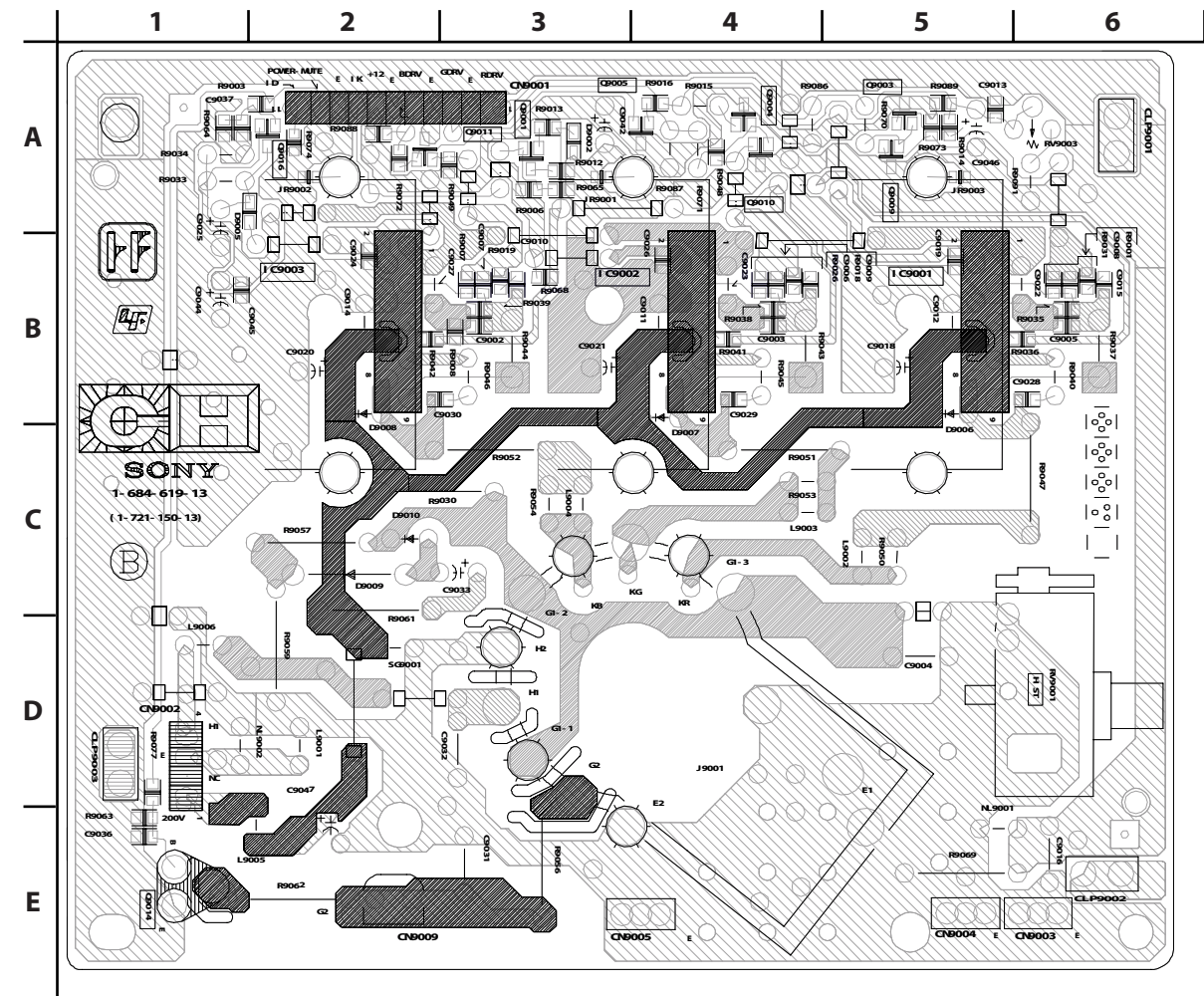
|       | B   | C     | E   |
|-------|-----|-------|-----|
| Q9001 | 8.6 | GND   | 3.6 |
| Q9003 | 2.2 | 12.0  | 3.6 |
| Q9004 | 2.2 | 12.0  | 3.7 |
| Q9005 | 2.2 | 12.0  | 3.5 |
| Q9007 | 9.1 | 12.0  | 8.4 |
| Q9009 | 3.7 | GND   | 4.3 |
| Q9010 | 3.7 | GND   | 4.4 |
| Q9011 | 3.5 | GND   | 4.2 |
| Q9014 | 0.0 | 264.7 | GND |

All voltages are in V.

**COMPONENT SIDE**

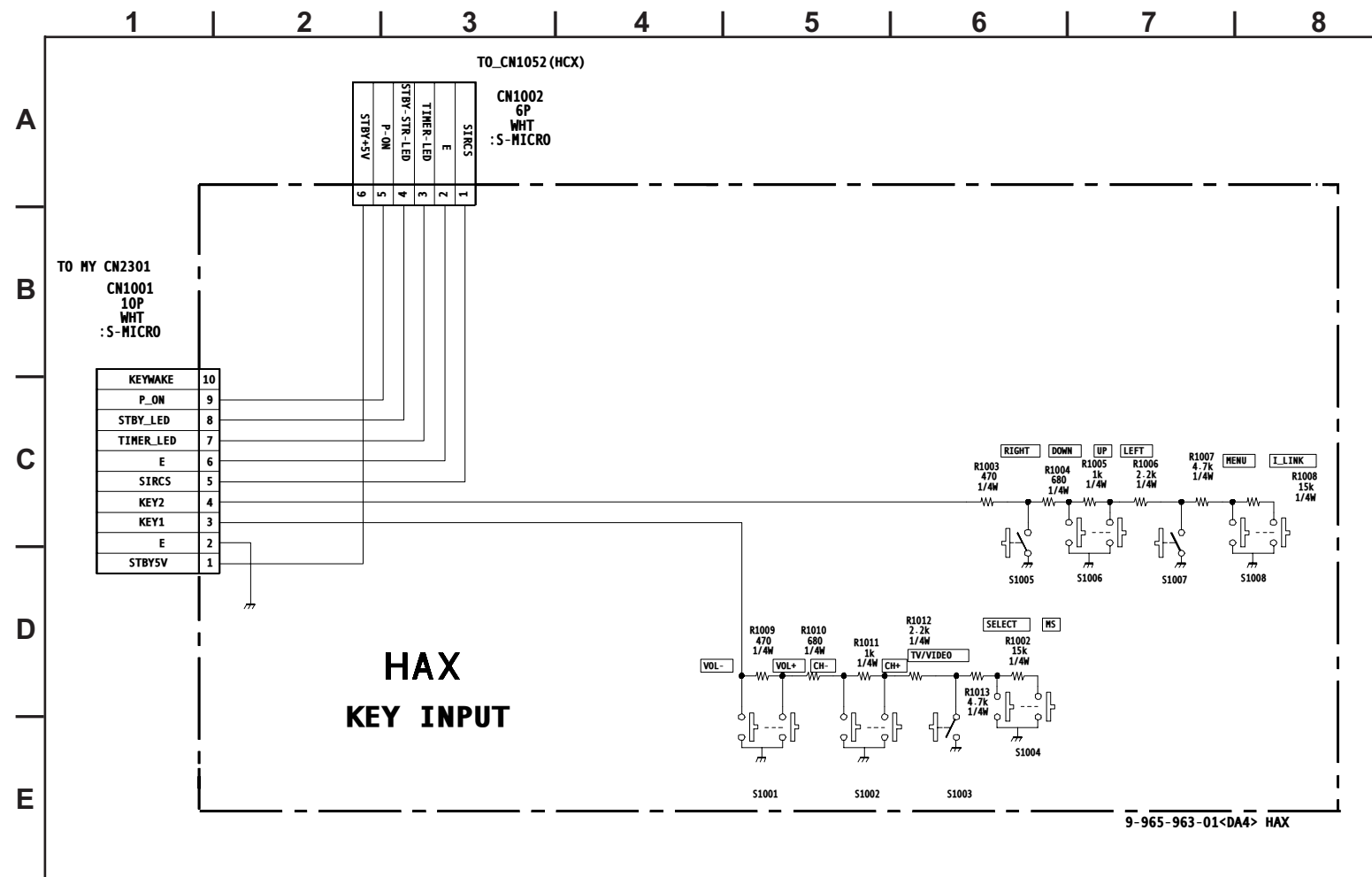


**CONDUCTOR SIDE**

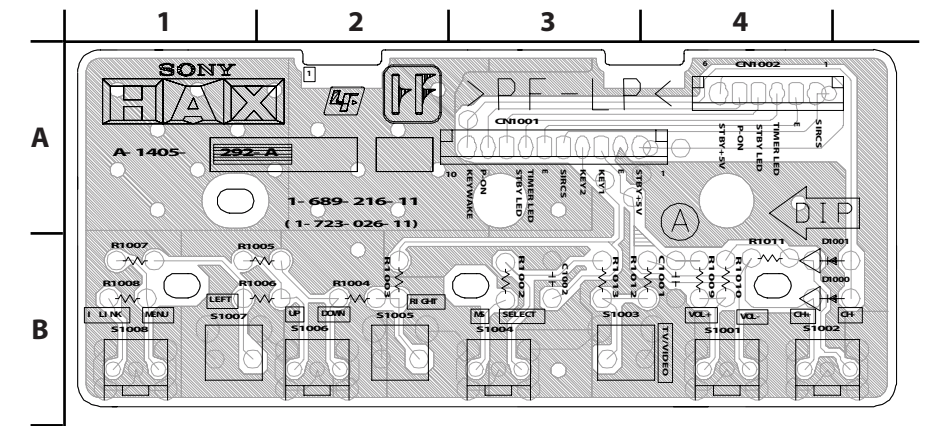




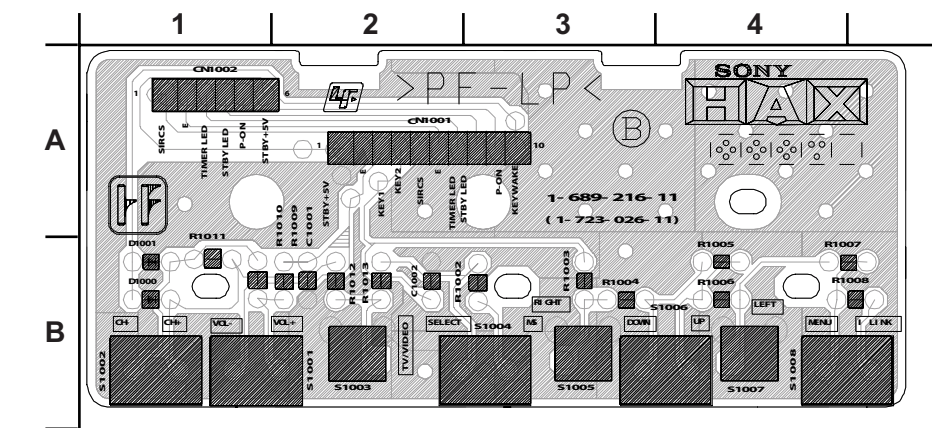
HAX BOARD SCHEMATIC DIAGRAM



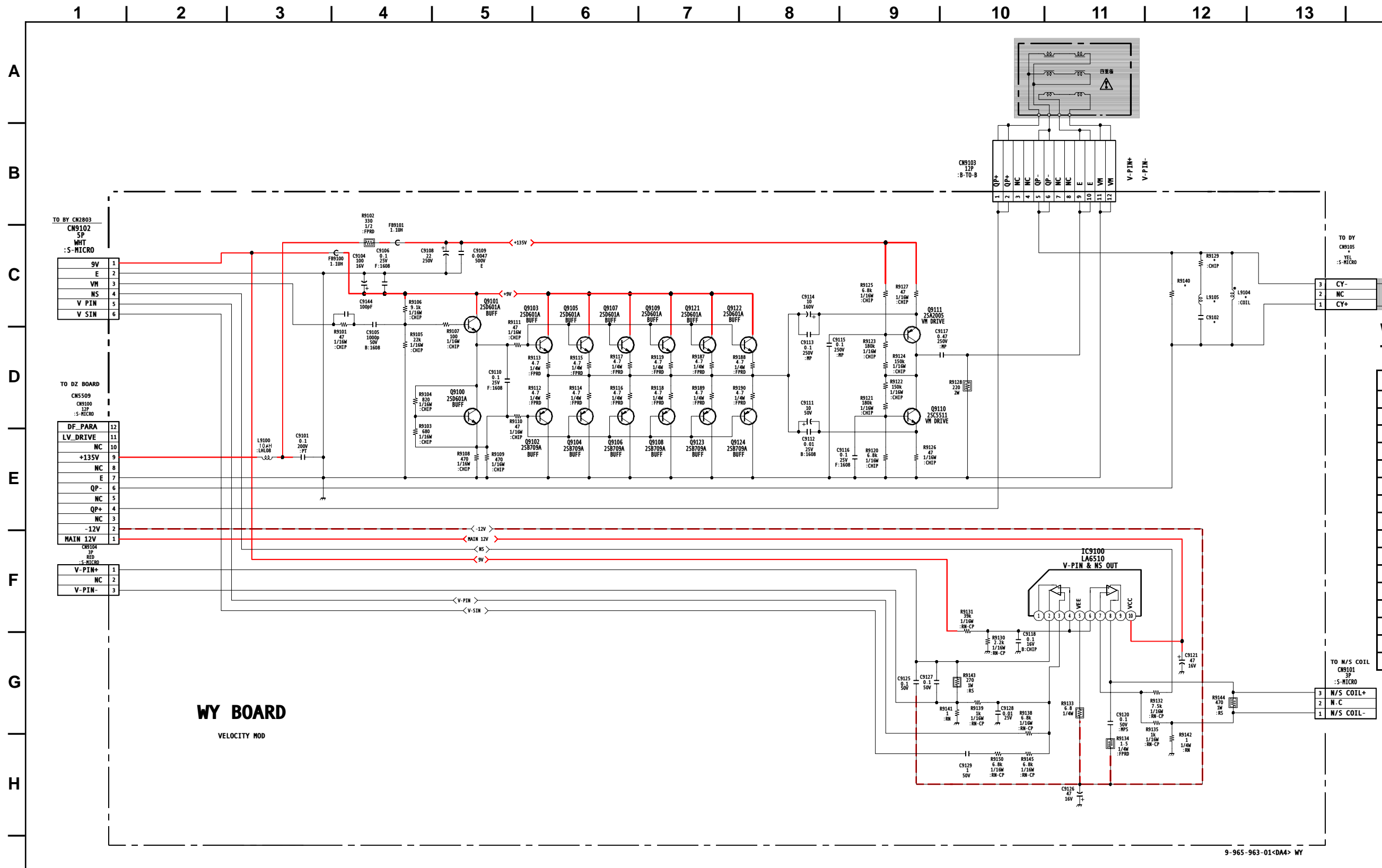
**HAX** [KEY INPUT]  
COMPONENT SIDE



**HAX** [KEY INPUT]  
CONDUCTOR SIDE



WY BOARD SCHEMATIC DIAGRAM



WY BOARD IC VOLTAGE LIST

| IC9100 |       |
|--------|-------|
| PIN    | VOLT  |
| 1      | NC    |
| 2      | 0.0   |
| 3      | 0.0   |
| 4      | 0.5   |
| 5      | -12.0 |
| 6      | 0.5   |
| 7      | 0.5   |
| 8      | 0.0   |
| 9      | NC    |
| 10     | 12.0  |

All voltages are in V.

WY BOARD TRANSISTOR VOLTAGE LIST

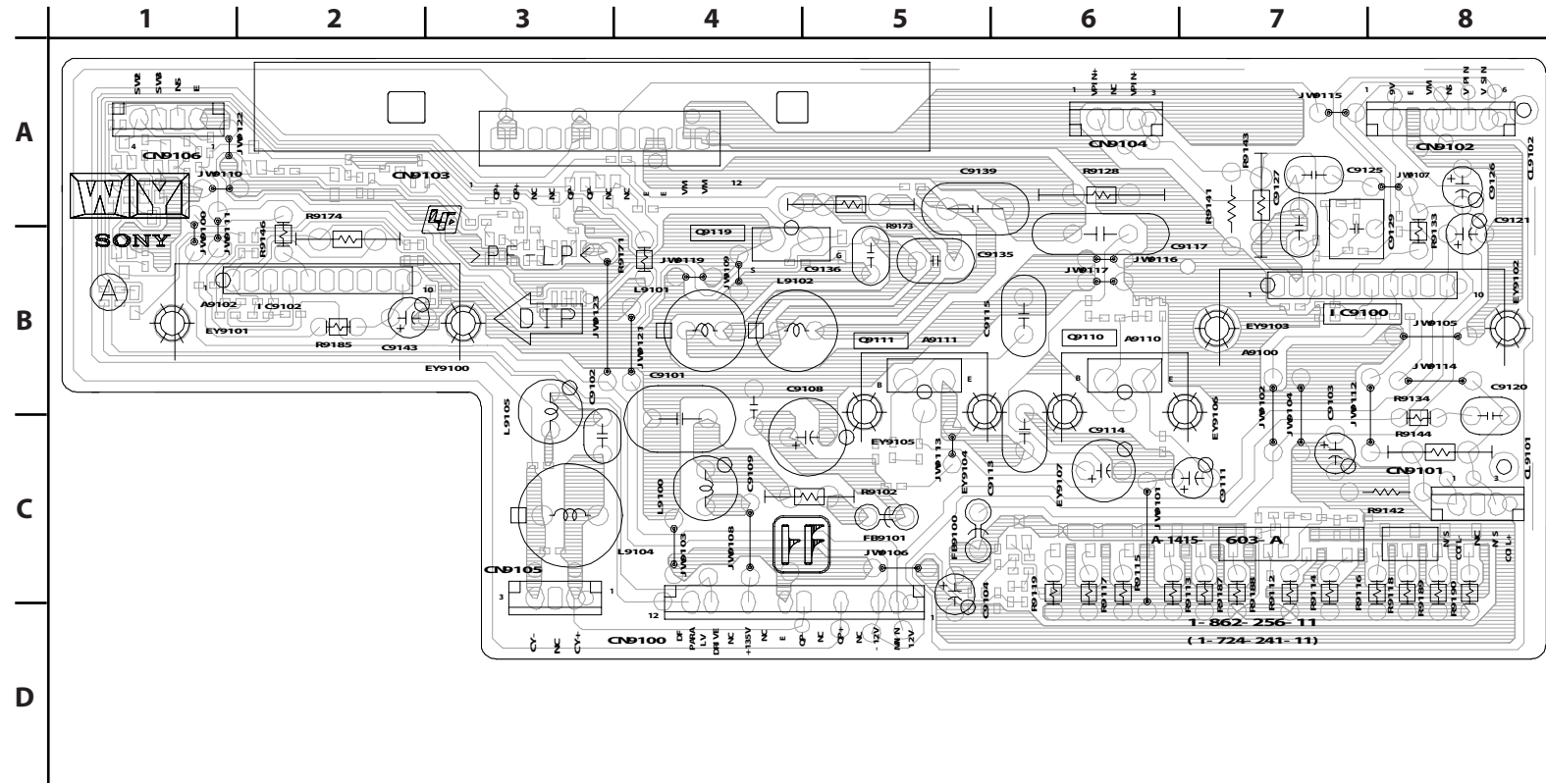
|       | B     | C    | E     |
|-------|-------|------|-------|
| Q9100 | 4.3   | 5.2  | 3.6   |
| Q9101 | 0.0   | 9.0  | 5.2   |
| Q9102 | 3.6   | GND  | 4.3   |
| Q9103 | 5.1   | 9.0  | 4.5   |
| Q9104 | 3.6   | GND  | 4.3   |
| Q9105 | 5.1   | 9.0  | 4.5   |
| Q9106 | 3.6   | GND  | 4.3   |
| Q9107 | 5.1   | 9.0  | 4.5   |
| Q9108 | 3.6   | GND  | 4.3   |
| Q9109 | 5.1   | 9.0  | 4.5   |
| Q9110 | 0.8   | 66.7 | 0.2   |
| Q9111 | 133.8 | 66.7 | 134.3 |
| Q9121 | 5.1   | 9.0  | 4.5   |
| Q9122 | 5.1   | 9.0  | 4.5   |
| Q9123 | 3.6   | GND  | 4.3   |
| Q9124 | 3.6   | GND  | 4.3   |

All voltages are in V.

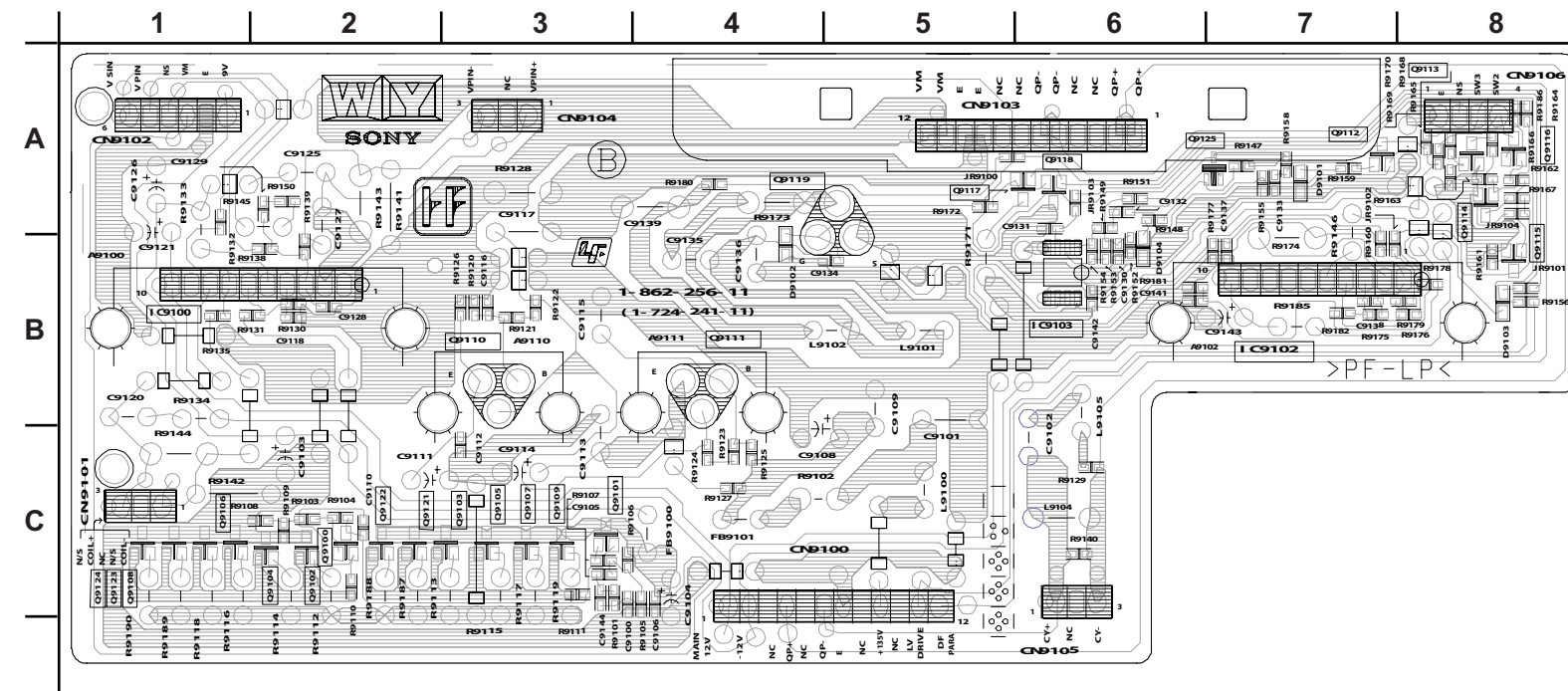
WY BOARD  
VELOCITY MOD

9-965-963-01-DA4 WY

**WY** [VELOCITY MOD]  
**COMPONENT SIDE**



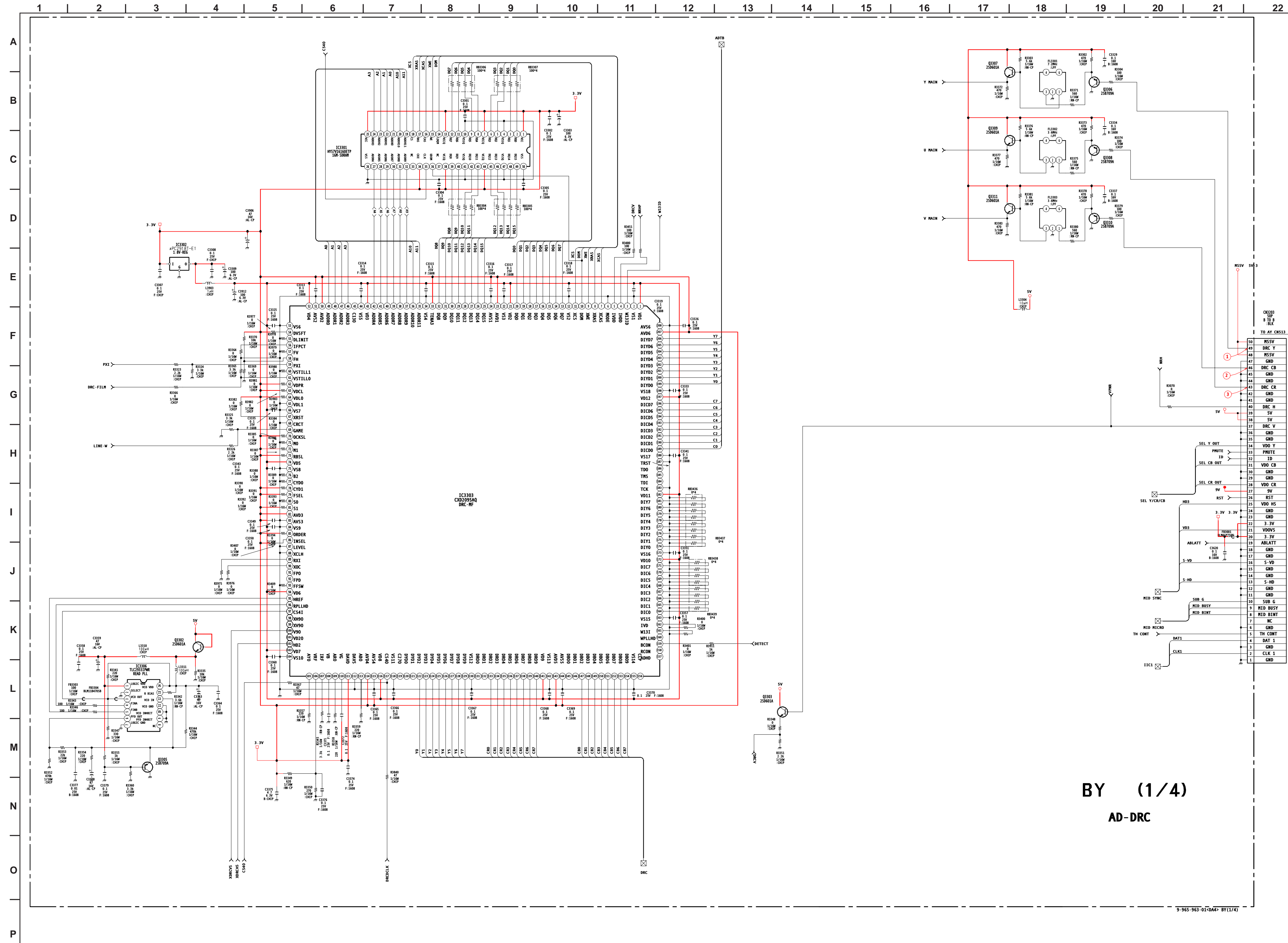
**WY** [VELOCITY MOD]  
**CONDUCTOR SIDE**



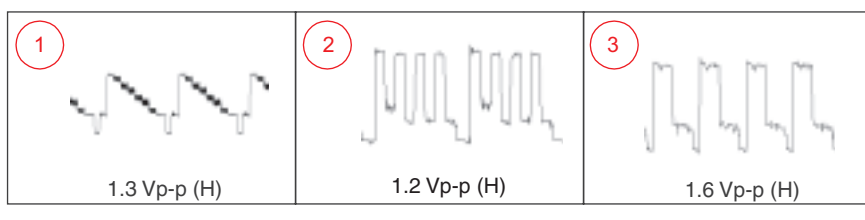


BY BOARD SCHEMATIC DIAGRAM (1 OF 4)

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.



BY BOARD WAVEFORMS

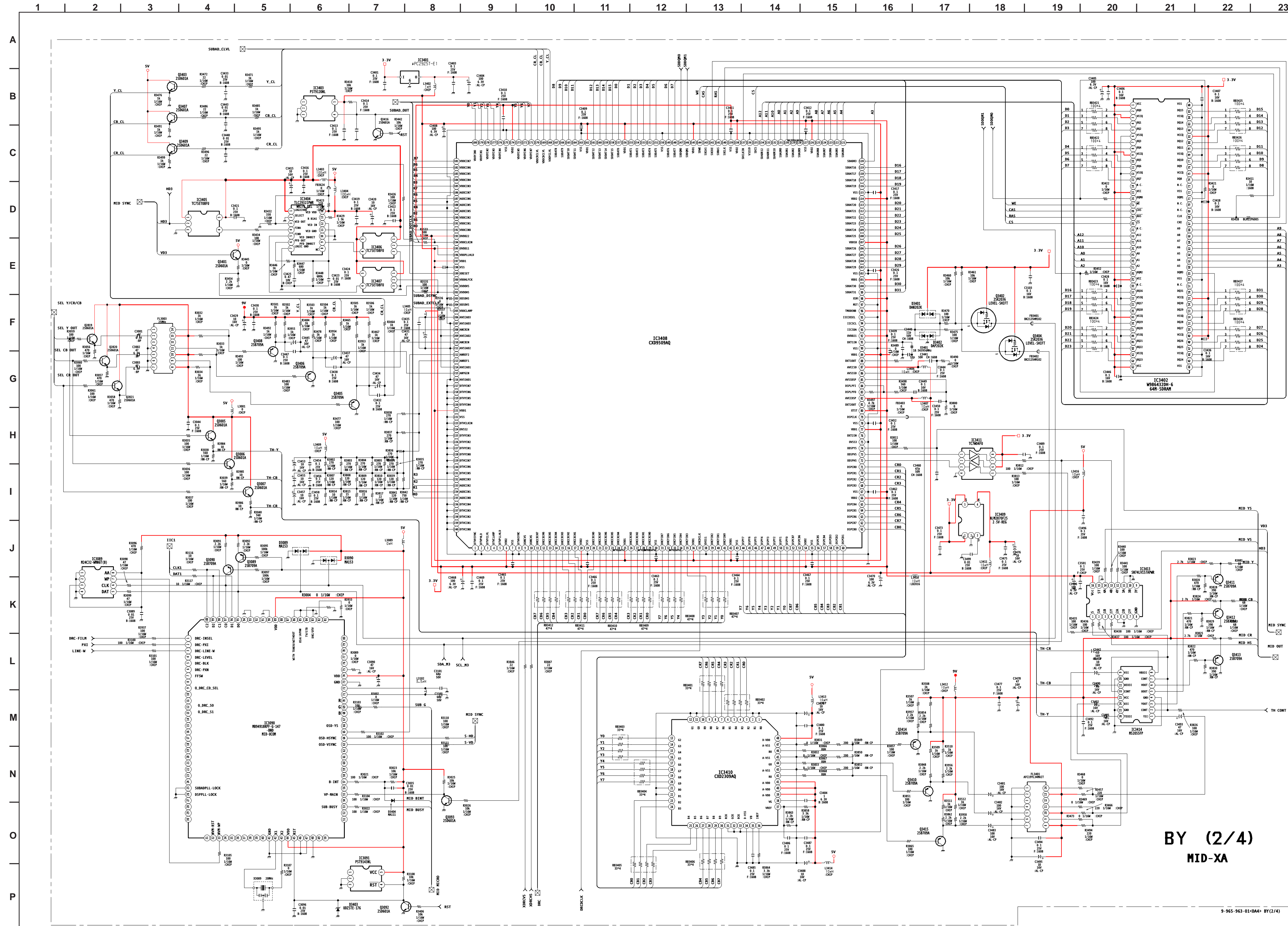


BY (1/4)  
AD-DRC



BY BOARD SCHEMATIC DIAGRAM (2 OF 4)

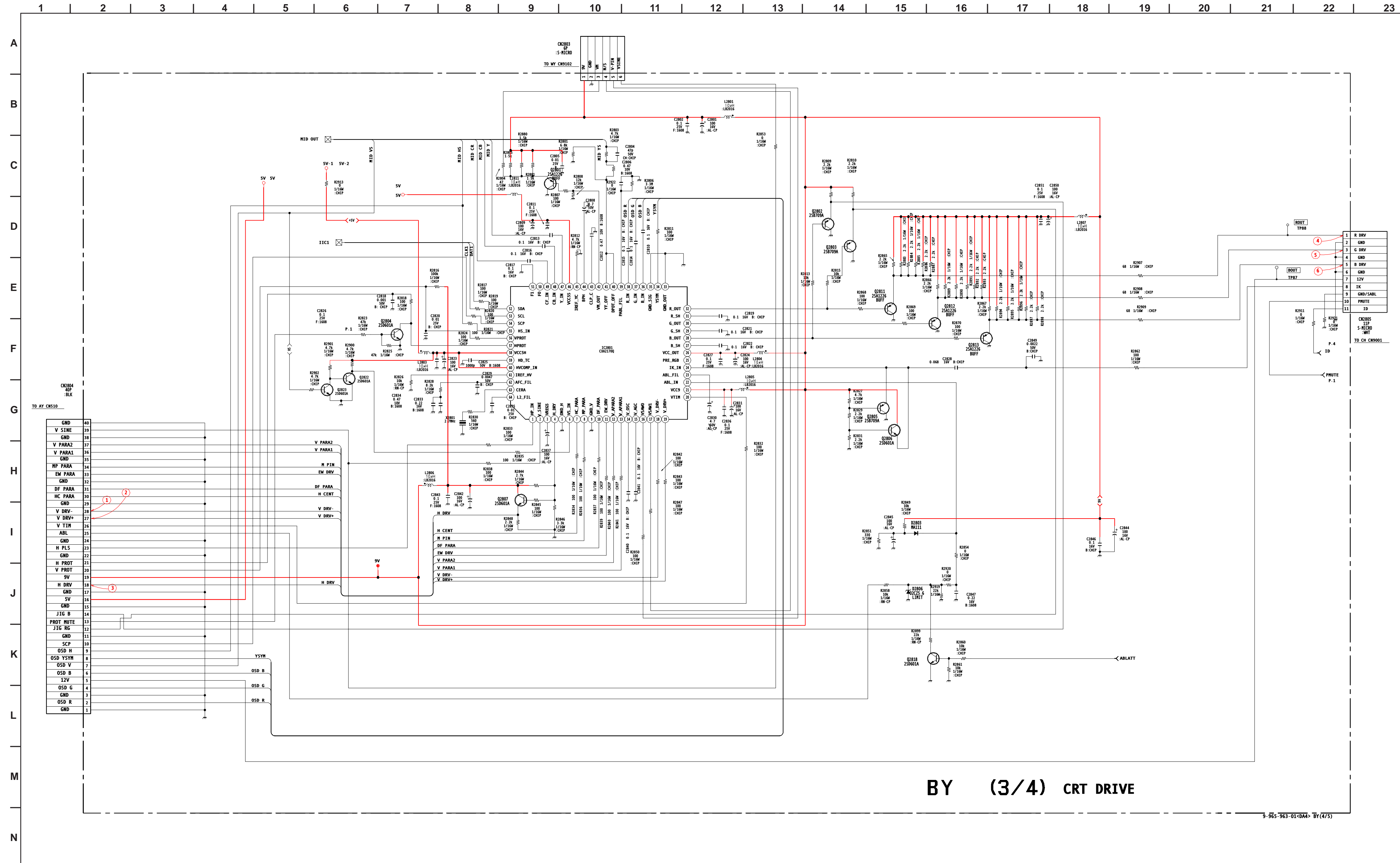
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.



BY (2/4)  
MID-XA

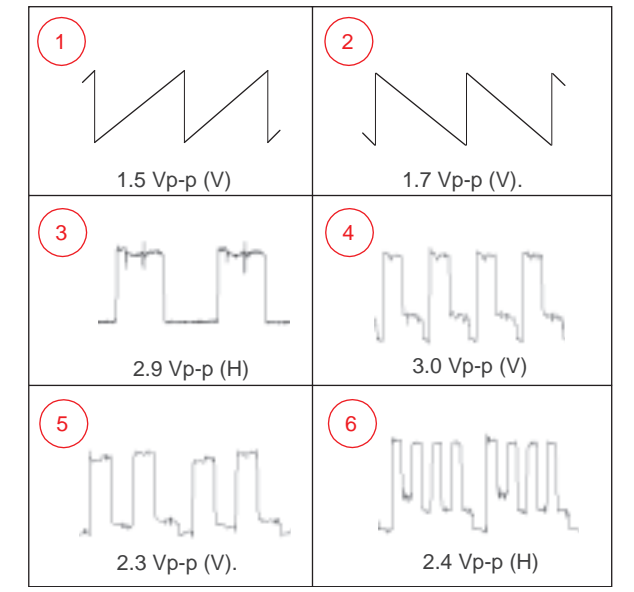
BY BOARD SCHEMATIC DIAGRAM (3 OF 4)

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.



BY (3/4) CRT DRIVE

BY BOARD WAVEFORMS



9-965-963-01-CM4 BY (4/5)



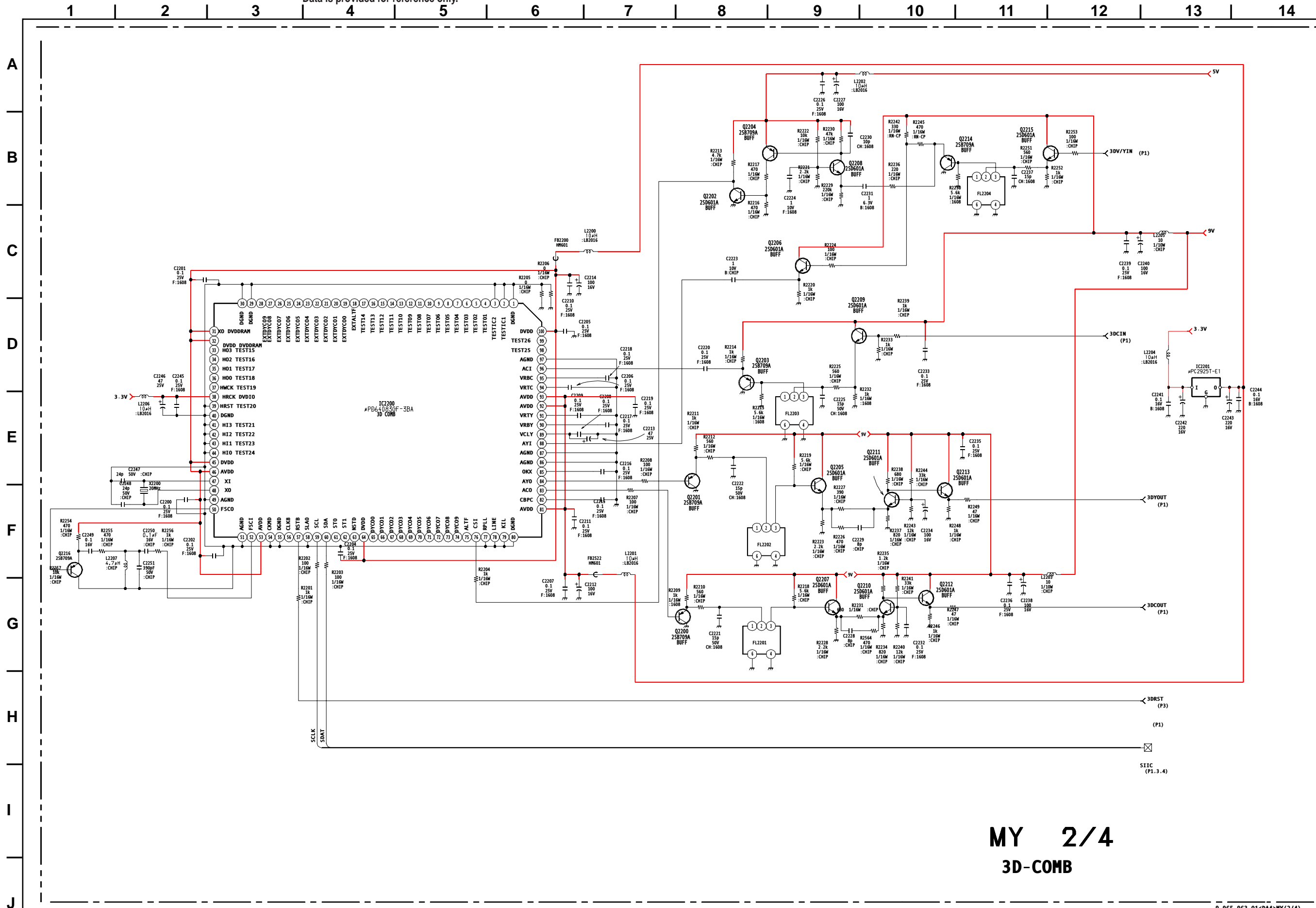






MY BOARD SCHEMATIC DIAGRAM (2 OF 4)

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.



MY 2/4  
3D-COMB

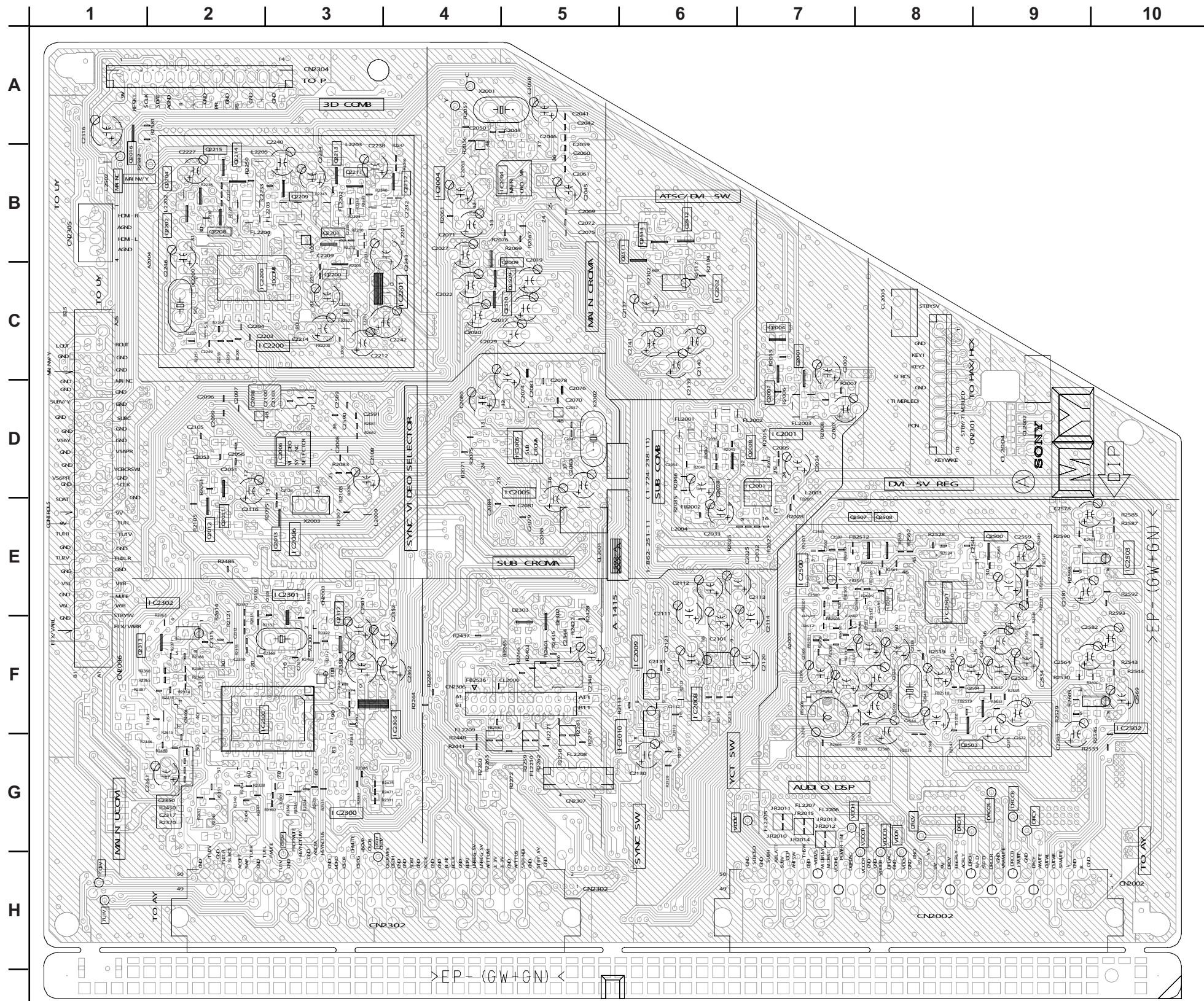








[VIDEO PROCESSOR, 3D-COMB, MICRO (MAIN, CCD), AUDIO PROCESSOR]  
COMPONENT SIDE







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

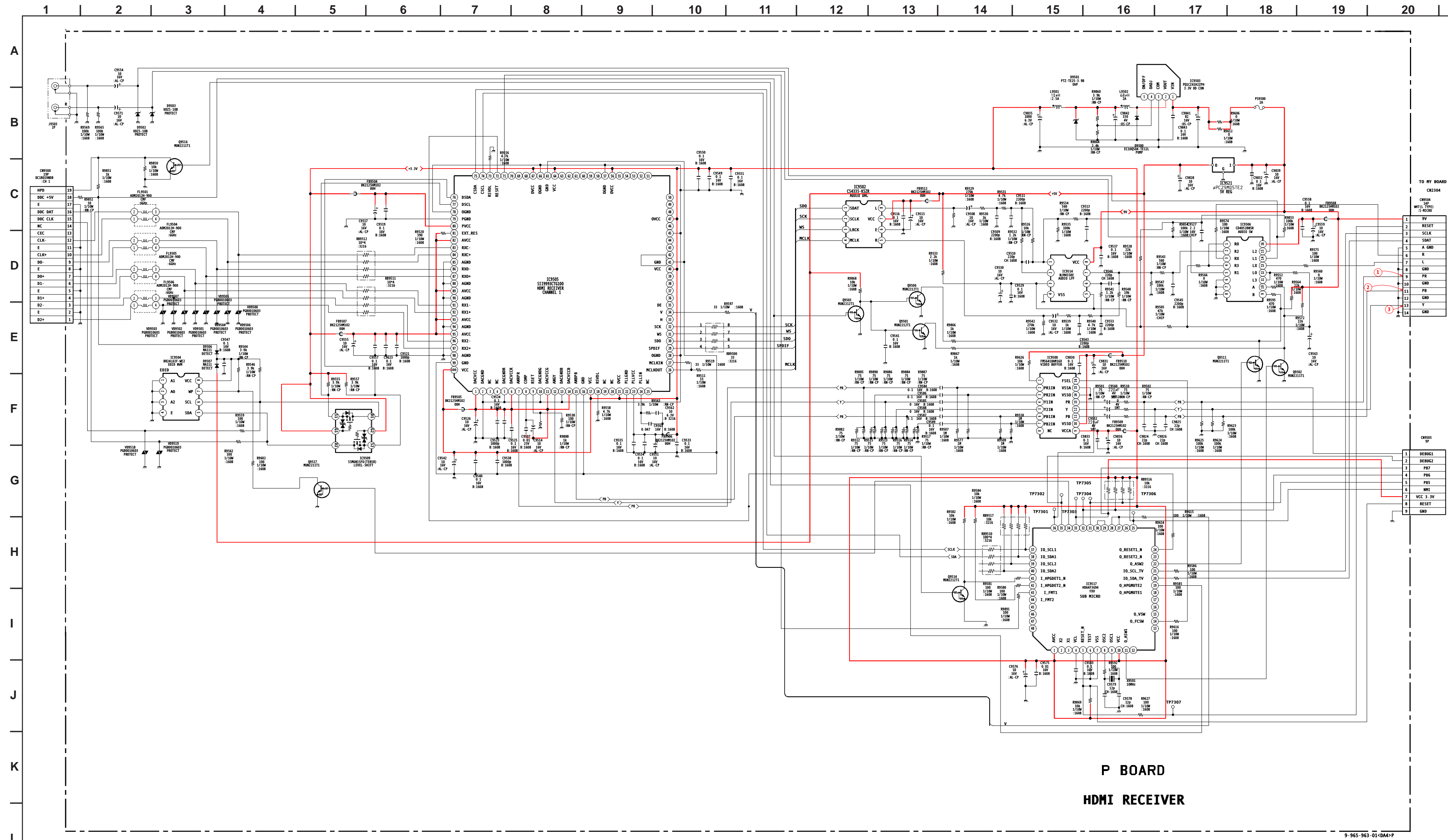




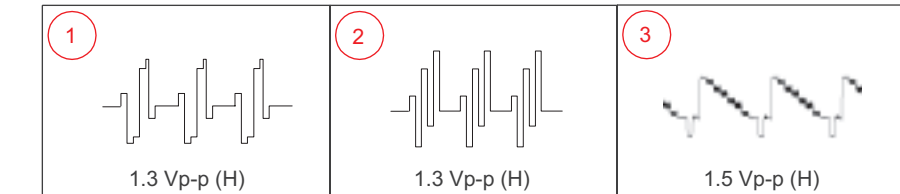
**P BOARD SCHEMATIC DIAGRAM**

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. The P and PA Boards are interchangeable. Data is provided for reference only.

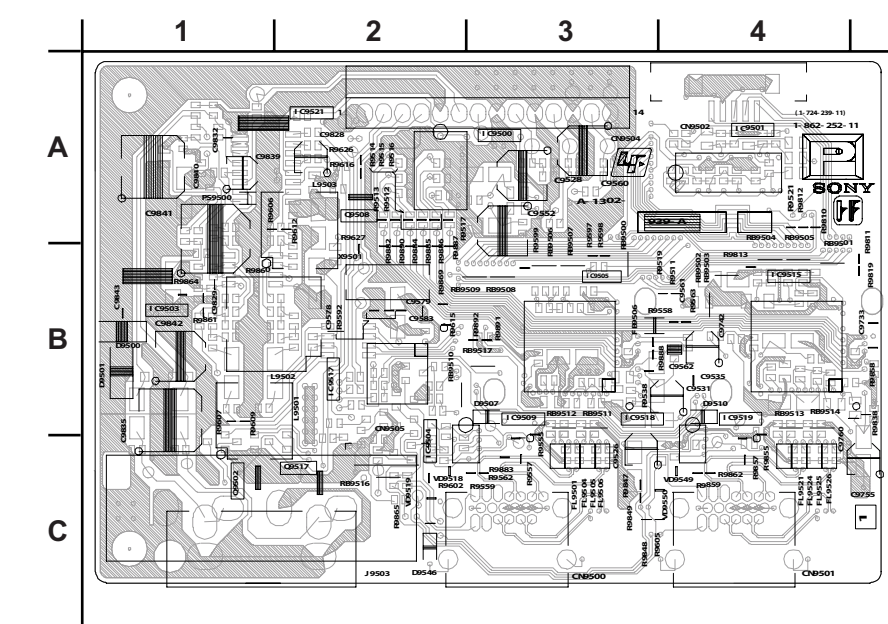
Either board can be used as a replacement.



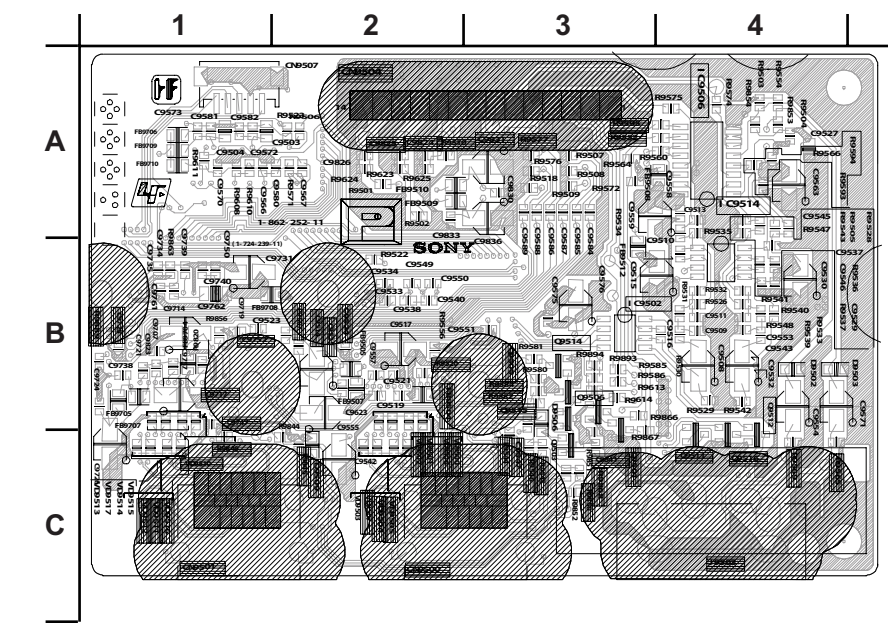
**P/PA BOARD WAVEFORMS**



**[HDMI RECEIVER] COMPONENT SIDE**



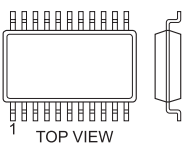
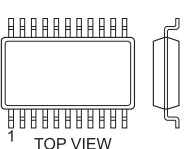
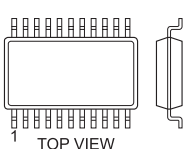
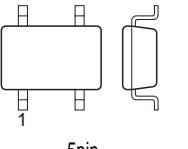
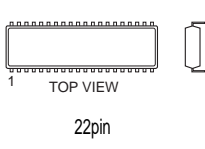
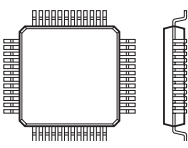
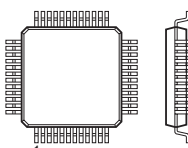
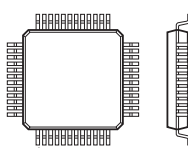
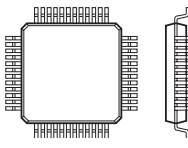
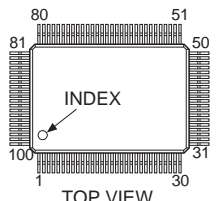
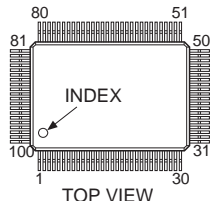
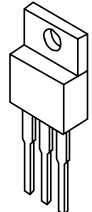
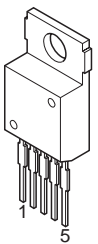
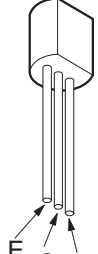
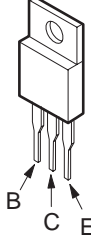
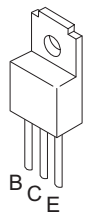
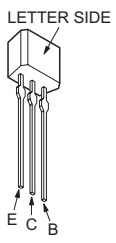
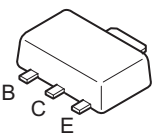
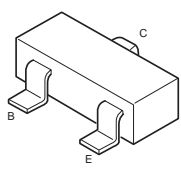
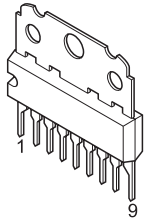
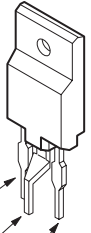
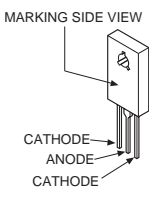
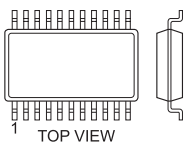
**[HDMI RECEIVER] CONDUCTOR SIDE**



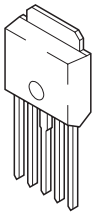
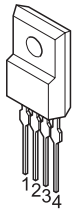
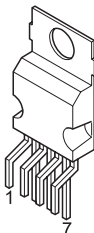
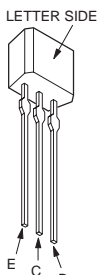
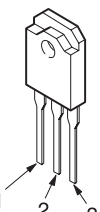
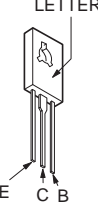
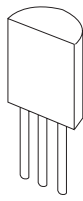
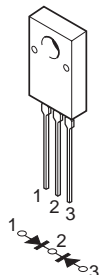
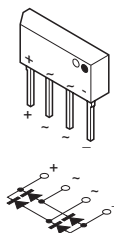
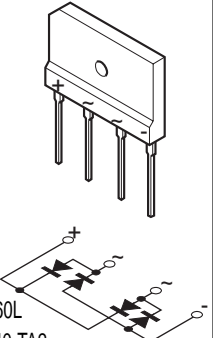
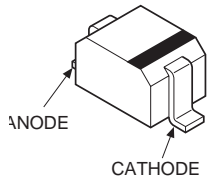
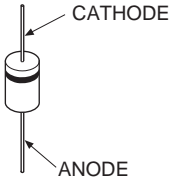
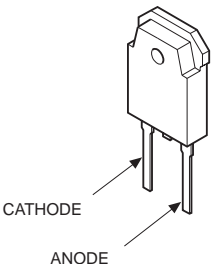
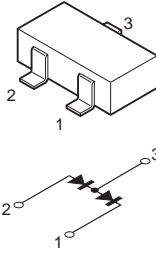
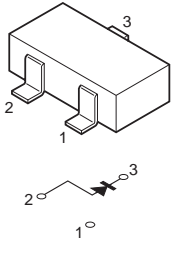
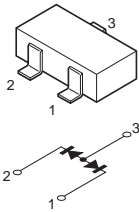
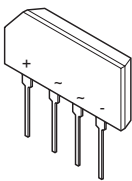
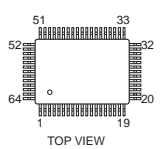
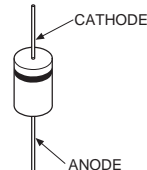
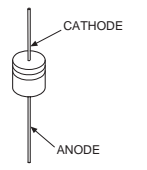




5-5.SEMICONDUCTORS (1 OF 2)

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

SEMICONDUCTORS (2 OF 2)

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

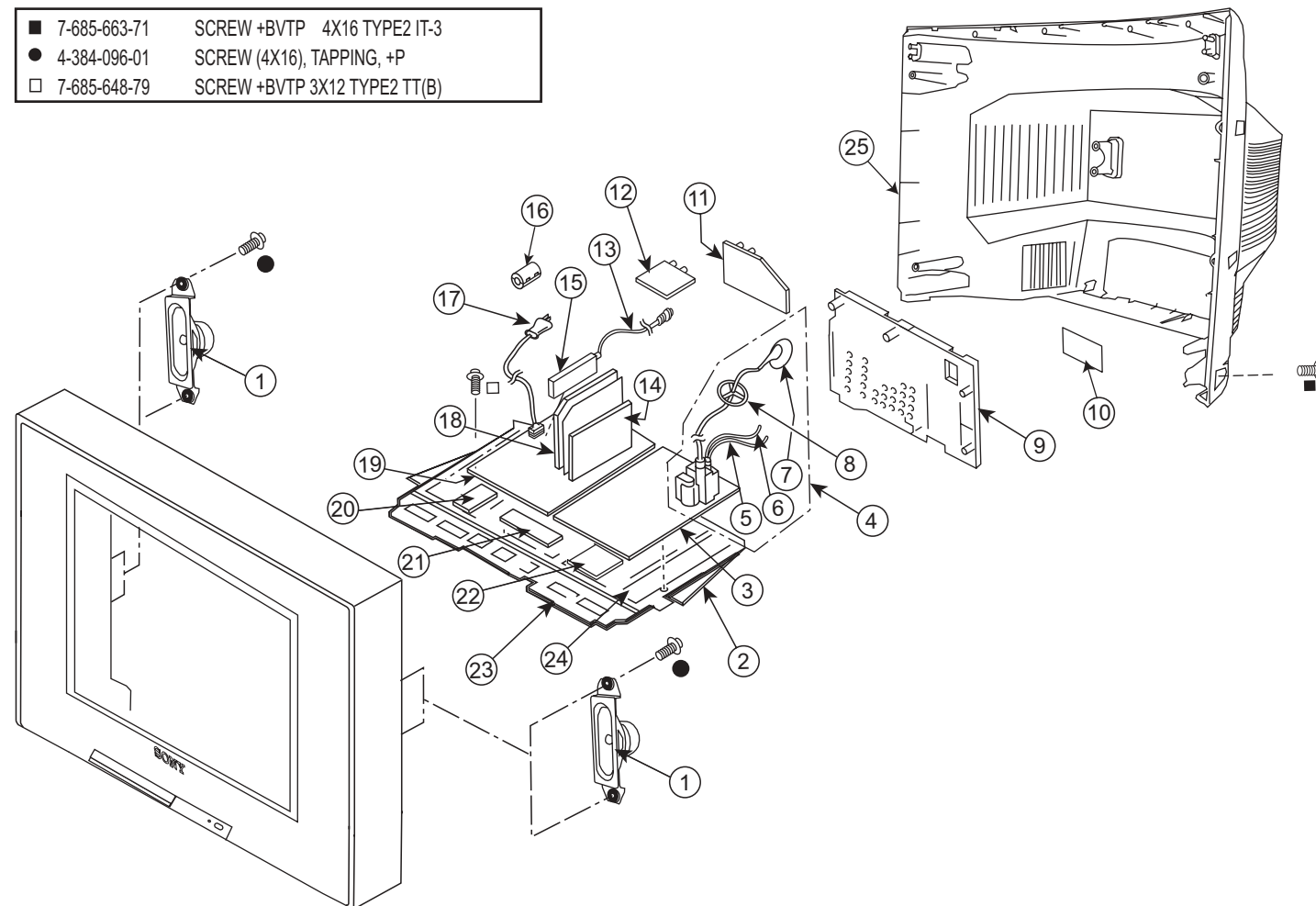
\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

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 spécifié.

## 6-1.CHASSIS (KV-27HS420/29DRC420)

- 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
- 4-384-096-01 SCREW (4X16), TAPPING, +P
- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 TT(B)



| REF. NO.      | PART NO.     | DESCRIPTION  | [ASSEMBLY INCLUDES] | REF. NO.       | PART NO.     | DESCRIPTION   |
|---------------|--------------|--|---------------------|----------------|--------------|---|
| 1             | 1-825-840-11 | LOUDSPEAKER  |                     | $\triangle$ 13 | 1-829-088-11 | P-F CABLE   |
| * 2           | 4-102-133-01 | BOARD, BOTTOM  |                     | * 14           | A-1302-940-A | BY BOARD, COMPLETE  |
| * 3           | A-1302-933-A | DZ BOARD, COMPLETE<br>(KV-27HS420/29DRC420 L. NORTH)<br>The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7). |                     | $\triangle$ 15 | 8-598-593-40 | TUNER, FSS BTF-WA421  |
|               |              |  |                     | 16             | 1-500-586-11 | FILTER, CLAMP (FERRITE CORE)  |
|               |              |  |                     | $\triangle$ 17 | 1-769-837-11 | CORD, POWER(WITH NOISE FILTER)<br>(ALL EXCEPT KV-29DRC420 L. SOUTH) |
| * 3           | A-1303-009-A | DZ BOARD, COMPLETE<br>(KV-29DRC420 L. SOUTH)<br>The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7).         |                     | $\triangle$ 17 | 1-769-796-62 | CORD, POWER (WITH CONNECTOR)<br>(KV-29DRC420 L. SOUTH)              |
| $\triangle$ 4 | 1-453-464-11 | FBT ASSY, NX-6200//X4J4  | [5-7]               | * 18           | A-1302-937-A | MY BOARD, COMPLETE  |
| $\triangle$ 5 | 1-900-808-42 | WIRE ASSY, G2  |                     | * 19           | A-1302-932-A | AY BOARD, COMPLETE<br>(KV-27HS420/29DRC420 L. NORTH)                |
| $\triangle$ 6 | 1-900-805-19 | WIRE ASSY, FOCUS HV  |                     | * 19           | A-1303-008-A | AY BOARD, COMPLETE<br>(KV-29DRC420 L. SOUTH)                        |
| $\triangle$ 7 | 1-251-374-14 | CAP ASSY, HIGH-VOLTAGE   |                     | * 20           | A-1302-942-A | HBY BOARD, COMPLETE   |
| 8             | 4-084-918-01 | HOLDER, HV CABLE   |                     | * 21           | A-1405-292-A | HAX BOARD, MOUNTED  |
|               |              |  |                     | * 22           | A-1302-943-A | HCX BOARD, COMPLETE   |
| * 9           | 4-102-135-01 | BRACKET, U   |                     | * 23           | 4-102-120-01 | BRACKET, H(27)  |
| 10            | 4-102-764-01 | LABEL, TERMINAL  |                     | * 24           | 4-095-271-11 | BRACKET, MAIN   |
| * 11          | A-1302-938-A | UY BOARD, COMPLETE   |                     | 25             | 4-102-118-01 | COVER, REAR   |
| * 12          | A-1302-939-A | P BOARD, COMPLETE  |                     |                |              |   |
| * 12          | A-1085-903-A | PA BOARD, COMPLETE   |                     |                |              |   |

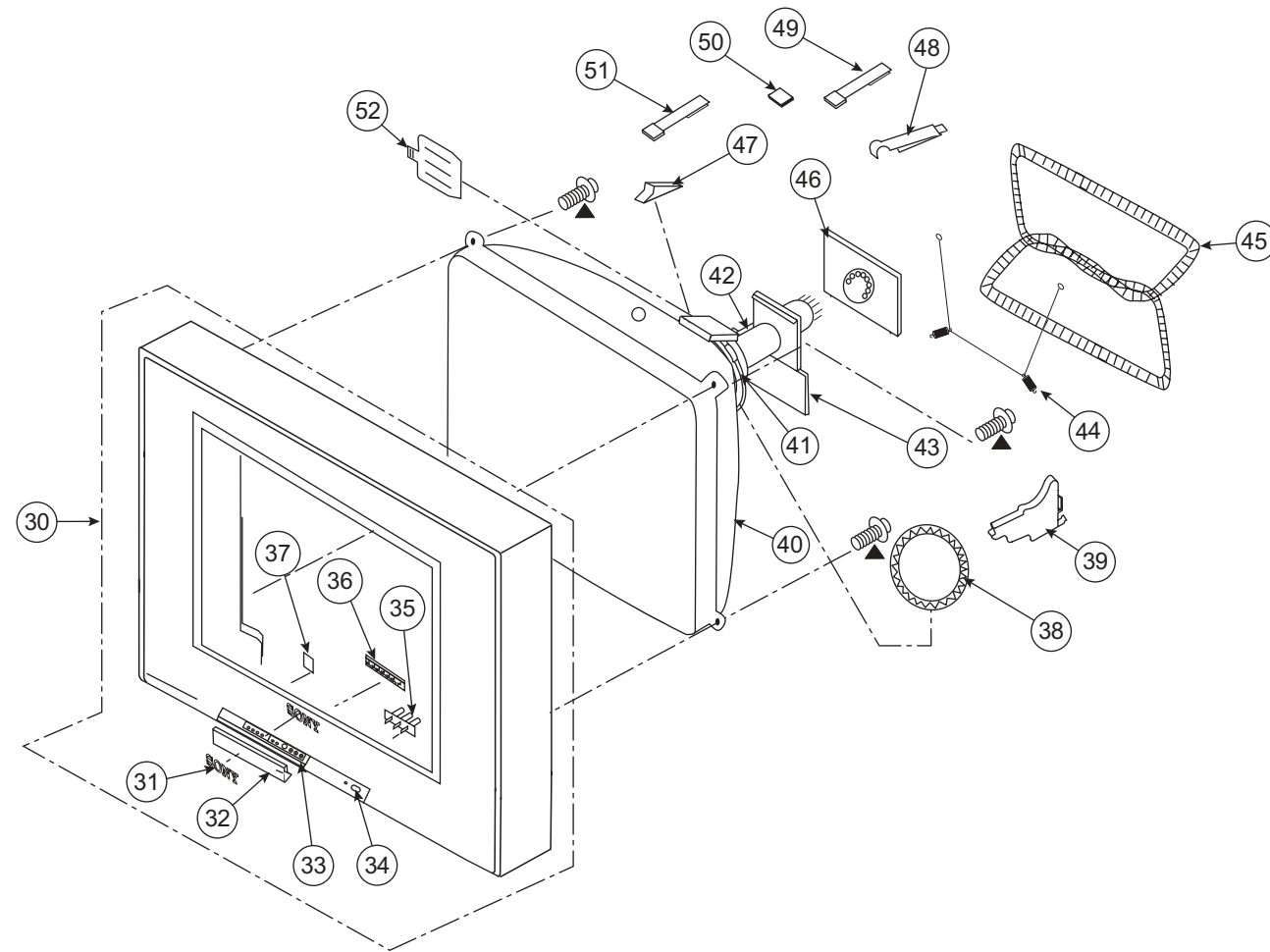
The P and PA Boards are interchangeable.  
Either board can be used as a replacement.

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.

## 6-2.PICTURE TUBE (KV-27HS420/29DRC420)

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



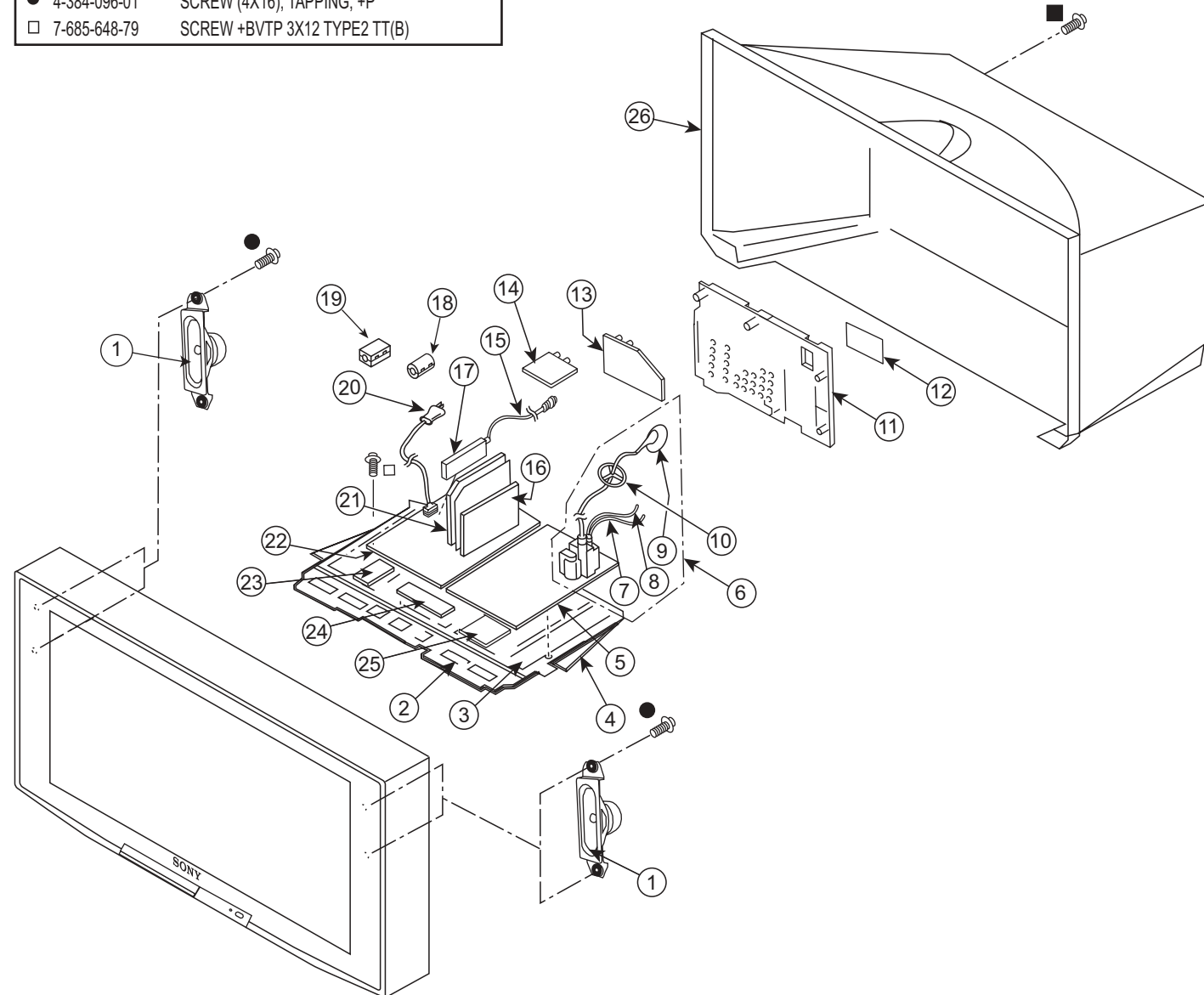
| REF. NO.       | PART NO.     | DESCRIPTION   | [ASSEMBLY INCLUDES] | REF. NO.       | PART NO.     | DESCRIPTION  |
|----------------|--------------|---|---------------------|----------------|--------------|--|
| 30             | X-4042-952-1 | BEZNET ASSY   | [31-37]             | $\triangle$ 42 | 8-453-022-21 | NECK ASSEMBLY2920-M2                               |
| 31             | 3-704-179-61 | EMBLEM, SONY (NO.9)   |                     | * 43           | A-1415-602-A | WY (VAR) BOARD, MOUNTED                            |
| 32             | 4-102-127-11 | DOOR, CONTROL   |                     | 44             | 4-036-329-01 | SPRING (B), TENSION                                |
| 33             | 4-102-130-01 | LABEL, FRONT CONTROL  |                     | $\triangle$ 45 | 1-419-156-21 | COIL, DEGAUSSING<br>(KV-27HS420/29DRC420 L. NORTH) |
| 34             | 4-102-129-11 | BUTTON, POWER   |                     | $\triangle$ 45 | 1-419-523-21 | COIL, DEGAUSSING<br>(KV-29DRC420 L. SOUTH)         |
| 35             | 4-102-128-01 | GUIDE, LED  |                     | * 46           | A-1400-550-A | CH BOARD, MOUNTED                                  |
| 36             | 4-093-611-12 | BUTTON, MULTI   |                     | 47             | 4-053-005-01 | SPACER, DY   |
| 37             | 4-102-131-01 | DAMPER, DOOR  |                     | * 48           | 4-062-970-12 | CLIP (29RSN), DGC                                  |
| $\triangle$ 38 | 1-451-498-41 | COIL, NA ROTATION   |                     | 49             | 4-051-734-21 | PIECE B(120), CONV. CORRECT                        |
| 39             | 4-102-121-01 | SUPPORTER, CRT(27)  |                     | 50             | 1-452-885-11 | MAGNET, LANDING                                    |
| $\triangle$ 40 | 8-735-082-05 | CRT 29RSN(SDP) (M68LNH050X)<br>(KV-27HS420/29DRC420 L. NORTH) |                     | 51             | 4-083-414-01 | PIECE A(110), CONV CORRECT                         |
| $\triangle$ 40 | 8-735-083-05 | CRT 29RSN(SDP)(SOUTH) (M68LNH050X)<br>(KV-29DRC420 L. SOUTH)  |                     | 52             | 4-081-170-01 | PLATE, TLH CORRECTION                              |
| $\triangle$ 41 | 8-451-511-21 | DY Y29RSC2-S  |                     |                |              |  |

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.

### 6-3.CHASSIS (KV-30HS420/34HS420)

|   |              |                              |
|---|--------------|------------------------------|
| ■ | 7-685-663-71 | SCREW +BVTP 4X16 TYPE2 IT-3  |
| ● | 4-384-096-01 | SCREW (4X16), TAPPING, +P    |
| □ | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2 TT(B) |



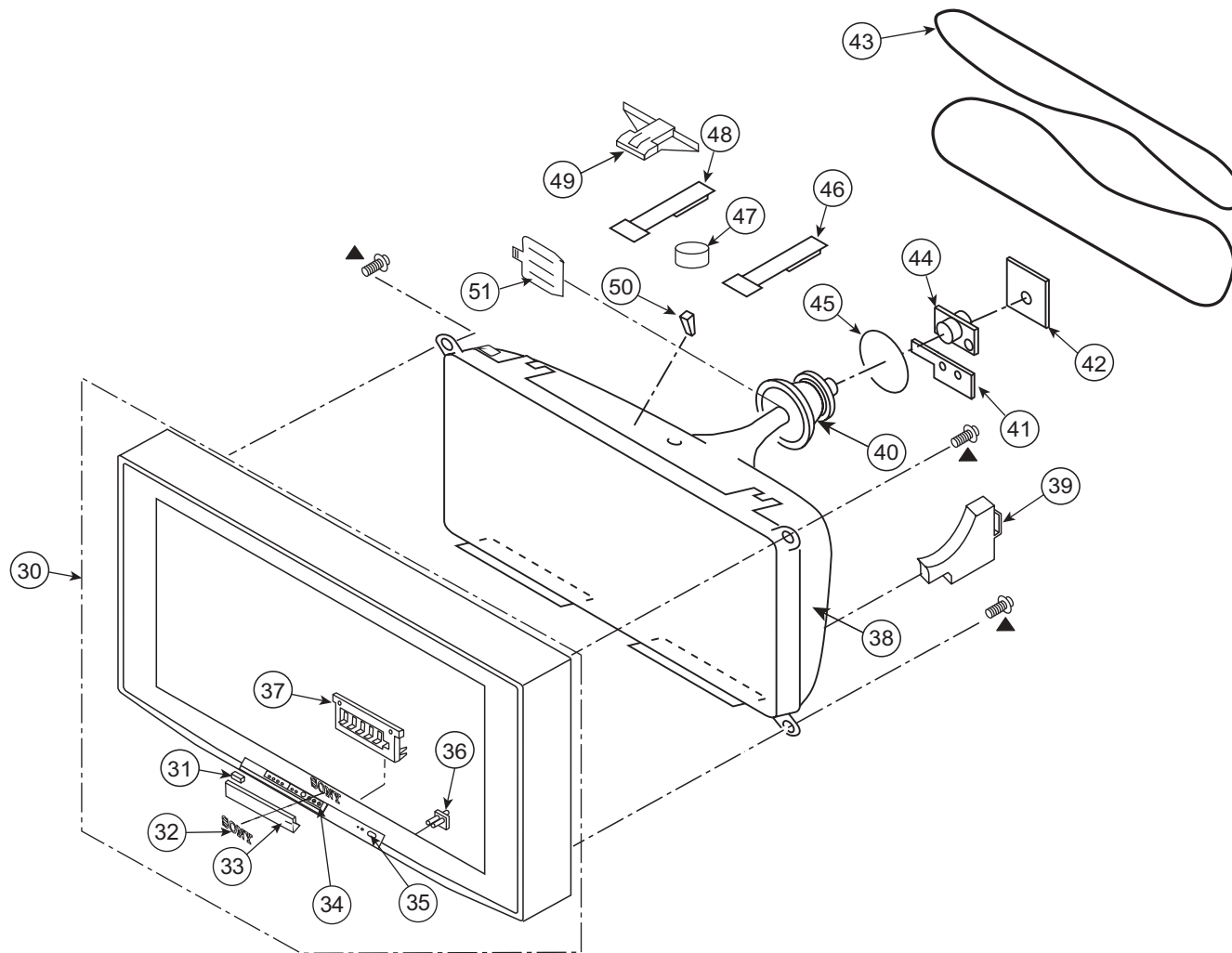
| REF. NO.      | PART NO.     | DESCRIPTION   | [ASSEMBLY INCLUDES] | REF. NO.   | PART NO.     | DESCRIPTION                             |
|---------------|--------------|---|---------------------|--|--------------|---|
| 1             | 1-825-840-11 | LOUDSPEAKER   |                     | * 14   | A-1302-939-A | P BOARD, COMPLETE                       |
| * 2           | 4-102-134-01 | BRACKET, H  |                     | * 14   | A-1085-903-A | PA BOARD, COMPLETE                      |
| * 3           | 4-095-271-11 | BRACKET, MAIN   |                     | <b>The P and PA Boards are interchangeable. Either board can be used as a replacement.</b> |              |   |
| * 4           | 4-102-133-01 | BOARD, BOTTOM   |                     | $\triangle$ 15   | 1-829-088-11 | P-F CABLE                               |
| * 5           | A-1302-934-A | DZ BOARD, COMPLETE<br>(KV-30HS420 ONLY)<br>The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 7-9). |                     | * 16   | A-1302-940-A | BY BOARD, COMPLETE                      |
| * 5           | A-1302-936-A | DZ BOARD, COMPLETE<br>(KV-34HS420 ONLY)<br>The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 7-9). |                     | $\triangle$ 17   | 8-598-593-40 | TUNER, FSS BTF-WA421                    |
| $\triangle$ 6 | 1-453-464-11 | FBT ASSY, NX-6200//X4J4   | [7-9]               | 18   | 1-500-586-11 | FILTER, CLAMP (FERRITE CORE)            |
| $\triangle$ 7 | 1-900-808-42 | WIRE ASSY, G2   |                     | 19   | 1-500-082-11 | CLAMP, SLEEVE FERRITE                   |
| $\triangle$ 8 | 1-900-805-19 | WIRE ASSY, FOCUS HV   |                     | $\triangle$ 20   | 1-769-837-11 | CORD, POWER(WITH NOISE FILTER)          |
| $\triangle$ 9 | 1-251-715-22 | CAP ASSY, HIGH-VOLTAGE  |                     | * 21   | A-1302-937-A | MY BOARD, COMPLETE                      |
| 10            | 4-084-918-01 | HOLDER, HV CABLE  |                     | * 22   | A-1302-935-A | AY BOARD, COMPLETE<br>(KV-30HS420 ONLY) |
| * 11          | 4-102-135-01 | BRACKET, U  |                     | * 22   | A-1302-941-A | AY BOARD, COMPLETE<br>(KV-34HS420 ONLY) |
| 12            | 4-102-764-01 | LABEL, TERMINAL   |                     | * 23   | A-1302-942-A | HBY BOARD, COMPLETE                     |
| * 13          | A-1302-938-A | UY BOARD, COMPLETE  |                     | * 24   | A-1405-292-A | HAX BOARD, MOUNTED                      |
|               |              |   |                     | * 25   | A-1302-943-A | HGX BOARD, COMPLETE                     |
|               |              |   |                     | 26   | 4-102-138-01 | COVER, REAR<br>(KV-30HS420 ONLY)        |
|               |              |   |                     | 26   | 4-102-123-01 | COVER, REAR<br>(KV-34HS420 ONLY)        |

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.

#### 6-4. PICTURE TUBE (KV-30HS420/34HS420)

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



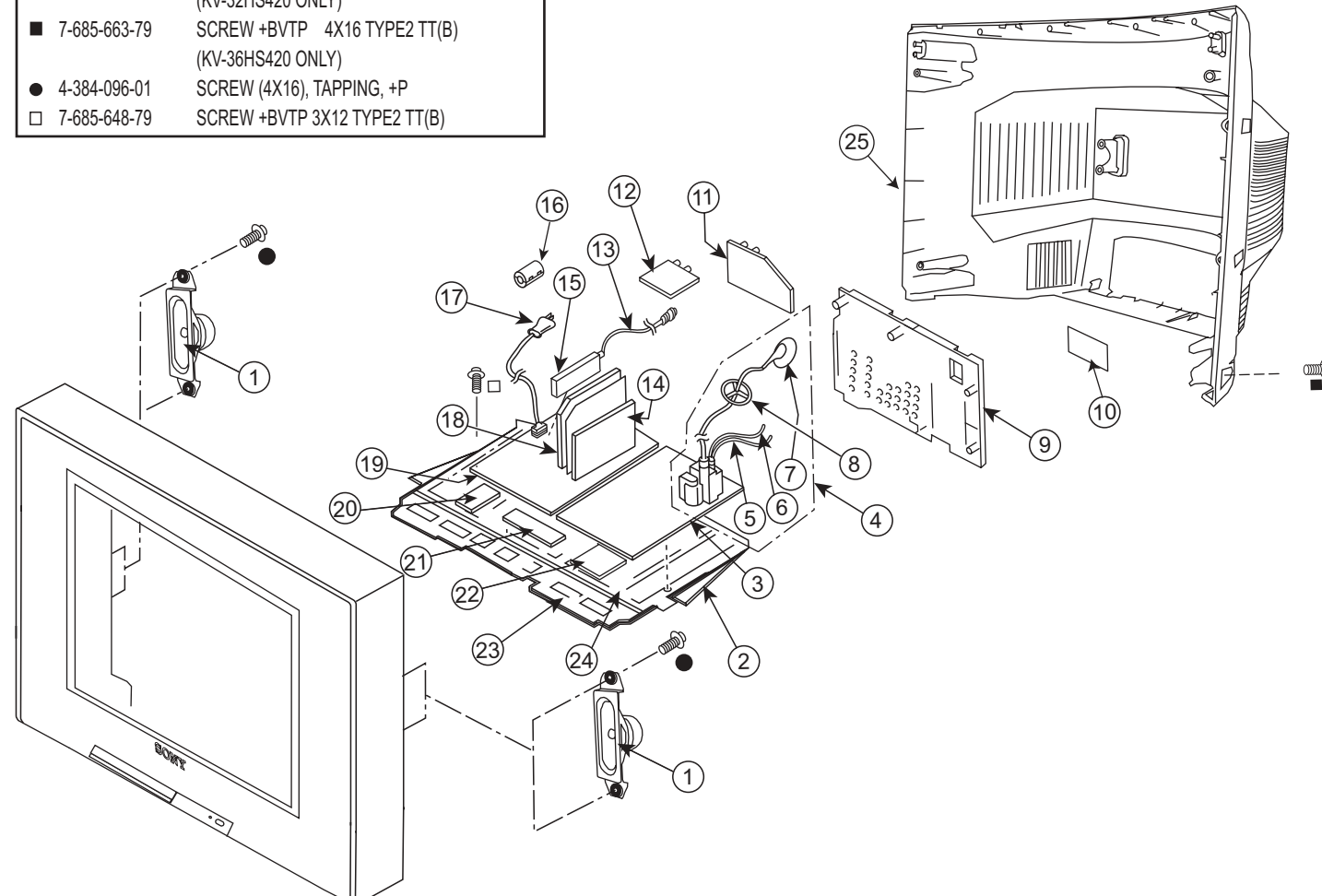
| REF. NO.       | PART NO.     | DESCRIPTION                                     | [ASSEMBLY INCLUDES] | REF. NO.       | PART NO.     | DESCRIPTION                                     |
|----------------|--------------|---|---------------------|----------------|--------------|---|
| 30             | X-4042-956-1 | BEZNET ASSY<br>(KV-30HS420 ONLY)                | [31-37]             | * 42           | A-1400-550-A | CH BOARD, MOUNTED                               |
| 30             | X-4042-953-1 | BEZNET ASSY<br>(KV-34HS420 ONLY)                | [31-37]             | $\triangle$ 43 | 1-456-474-11 | DEGAUSSING COIL<br>(KV-30HS420 ONLY)            |
| 31             | 4-102-131-01 | DAMPER, DOOR                                    |                     | $\triangle$ 43 | 1-416-837-21 | COIL, DEGAUSSING<br>(KV-34HS420 ONLY)           |
| 32             | 3-704-179-61 | EMBLEM, SONY (NO.9)                             |                     | $\triangle$ 44 | 8-453-022-21 | NECK ASSEMBLY NA2920-M2<br>(KV-30HS420 ONLY)    |
| 33             | 4-102-127-11 | DOOR, CONTROL                                   |                     | $\triangle$ 44 | 8-453-023-21 | NECK ASSEMBLY NA328-M2<br>(KV-34HS420 ONLY)     |
| 34             | 4-102-130-01 | LABEL, FRONT CONTROL                            |                     | $\triangle$ 45 | 1-451-498-31 | COIL, NA ROTATION                               |
| 35             | 4-102-129-11 | BUTTON, POWER                                   |                     | 46             | 4-051-734-21 | PIECE B(120), CONV. CORRECT                     |
| 36             | 4-102-128-01 | GUIDE, LED                                      |                     | 47             | 1-452-032-00 | MAGNET, DISC                                    |
| 37             | 4-093-611-12 | BUTTON, MULTI                                   |                     | 48             | 4-083-414-01 | PIECE A(110), CONV CORRECT<br>(KV-34HS420 ONLY) |
| $\triangle$ 38 | 8-735-110-05 | CRT 32RVEN (W76LWN000X)<br>(KV-30HS420 ONLY)    |                     | 49             | 4-102-284-01 | CLIP, DGC                                       |
| $\triangle$ 38 | 8-735-060-05 | CRT 36RV2 (W86LPH015X)<br>(KV-34HS420 ONLY)     |                     | 50             | 4-086-199-02 | SPACER, DY<br>(KV-30HS420 ONLY)                 |
| 39             | 4-102-136-01 | SUPPORTER, CRT                                  |                     | 50             | 4-053-005-01 | SPACER, DY<br>(KV-34HS420 ONLY)                 |
| $\triangle$ 40 | 1-451-551-13 | DEFLECTION YOKE (Y32VEC-T)<br>(KV-30HS420 ONLY) |                     | 51             | 2-163-920-01 | PLATE, TLH CORRECTION<br>(KV-30HS420 ONLY)      |
| $\triangle$ 40 | 8-451-498-23 | DY Y36RVC-M2<br>(KV-34HS420 ONLY)               |                     |                |              |   |
| * 41           | A-1415-589-A | WY (VAR) BOARD, MOUNTED<br>(KV-30HS420 ONLY)    |                     |                |              |   |
| * 41           | A-1415-602-A | WY (VAR) BOARD, MOUNTED<br>(KV-34HS420 ONLY)    |                     |                |              |   |

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 spécifique.

6-5.CHASSIS (KV-32HS420/36HS420)

- 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3 (KV-32HS420 ONLY)
- 7-685-663-79 SCREW +BVTP 4X16 TYPE2 TT(B) (KV-36HS420 ONLY)
- 4-384-096-01 SCREW (4X16), TAPPING, +P
- 7-685-648-79 SCREW +BVTP 3X12 TYPE2 TT(B)



| REF. NO. | PART NO.     | DESCRIPTION  | [ASSEMBLY INCLUDES] | REF. NO. | PART NO.     | DESCRIPTION                          |
|----------|--------------|--|---------------------|----------|--------------|--------------------------------------|
| 1        | 1-825-840-11 | LOUDSPEAKER  |                     | ⚠ 13     | 1-829-088-11 | P-F CABLE                            |
| * 2      | 4-102-133-01 | BOARD, BOTTOM  |                     | * 14     | A-1302-940-A | BY BOARD, COMPLETE                   |
| * 3      | A-1302-936-A | DZ BOARD, COMPLETE   |                     | ⚠ 15     | 8-598-593-40 | TUNER, FSS BTF-WA421                 |
|          |              | The high-voltage leads associated with the FBT on this DZ Board are not included and must be ordered separately (SEE 5-7). |                     | 16       | 1-500-586-11 | FILTER, CLAMP (FERRITE CORE)         |
| ⚠ 4      | 1-453-464-11 | FBT ASSY, NX-6200//X4J4  | [5-7]               | ⚠ 17     | 1-769-837-11 | CORD, POWER(WITH NOISE FILTER)       |
| ⚠ 5      | 1-900-808-42 | WIRE ASSY, G2 (KV-32HS420 ONLY)  |                     | * 18     | A-1302-937-A | MY BOARD, COMPLETE                   |
| ⚠ 5      | 1-900-805-22 | CONNECTOR ASSY, G2 HV (KV-36HS420 ONLY)  |                     | * 19     | A-1302-941-A | AY BOARD, COMPLETE (KV-32HS420 ONLY) |
| ⚠ 6      | 1-900-805-19 | WIRE ASSY, FOCUS HV  |                     | * 19     | A-1073-921-A | AY BOARD, COMPLETE (KV-36HS420 ONLY) |
| ⚠ 7      | 1-251-715-22 | CAP ASSY, HIGH-VOLTAGE   |                     | * 20     | A-1302-942-A | HBY BOARD, COMPLETE                  |
| 8        | 4-084-918-01 | HOLDER, HV CABLE (KV-32HS420 ONLY)   |                     | * 21     | A-1405-292-A | HAX BOARD, MOUNTED                   |
| * 9      | 4-102-135-01 | BRACKET, U   |                     | * 22     | A-1302-943-A | HCX BOARD, COMPLETE                  |
| 10       | 4-102-764-01 | LABEL, TERMINAL  |                     | * 23     | 4-102-134-01 | BRACKET, H                           |
| * 11     | A-1302-938-A | UY BOARD, COMPLETE   |                     | * 24     | 4-095-271-11 | BRACKET, MAIN                        |
| * 12     | A-1302-939-A | P BOARD, COMPLETE  |                     | 25       | 4-102-132-01 | COVER, REAR (KV-32HS420 ONLY)        |
| * 12     | A-1085-903-A | PA BOARD, COMPLETE   |                     | 25       | 4-102-125-01 | COVER, REAR (KV-36HS420 ONLY)        |

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

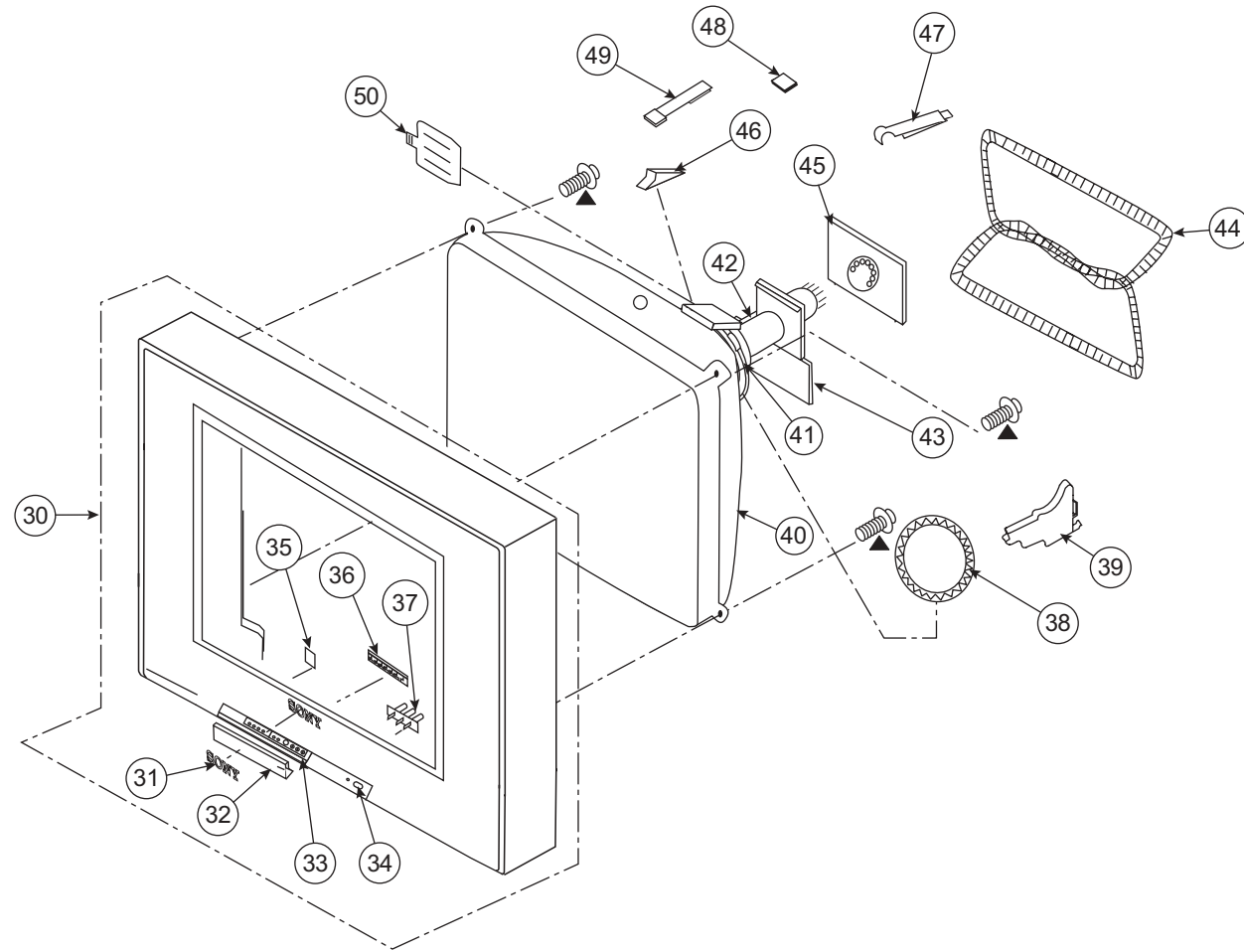


NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

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.

6-6.PICTURE TUBE (KV-32HS420/36HS420)

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



| REF. NO.       | PART NO.     | DESCRIPTION  | [ASSEMBLY INCLUDES] | REF. NO.       | PART NO.     | DESCRIPTION                                  |
|----------------|--------------|--|---------------------|----------------|--------------|--|
| 30             | X-4042-955-1 | BEZNET ASSY (KV-32HS420 ONLY)                            | [31-37]             | * 43           | A-1415-602-A | WY (VAR) BOARD, MOUNTED                      |
| 30             | X-4042-954-1 | BEZNET ASSY (KV-36HS420 ONLY)                            | [31-35]             | $\triangle$ 44 | 1-416-827-21 | COIL, DEGAUSSING (KV-32HS420 ONLY)           |
| 31             | 3-704-179-61 | EMBLEM, SONY (NO.9)                                      |                     | $\triangle$ 44 | 1-456-072-21 | COIL, DEGAUSSING (KV-36HS420 ONLY)           |
| 32             | 4-102-127-11 | DOOR, CONTROL  |                     | * 45           | A-1400-550-A | CH BOARD, MOUNTED                            |
| 33             | 4-102-130-01 | LABEL, FRONT CONTROL                                     |                     | 46             | 4-053-005-01 | SPACER, DY (KV-32HS420 ONLY)                 |
| 34             | 4-102-129-11 | BUTTON, POWER  |                     | 46             | 2-164-116-01 | SPACER, DY (KV-36HS420 ONLY)                 |
| 35             | 4-102-131-01 | DAMPER, DOOR   |                     | 47             | 4-102-284-01 | CLIP, DGC (KV-32HS420 ONLY)                  |
| 36             | 4-102-128-01 | GUIDE, LED (NOT INCLUDED WITH KV-36HS420 BEZNET ASSY)    |                     | 47             | 4-065-895-12 | HOLDER, DGC (KV-36HS420 ONLY)                |
| 37             | 4-093-611-12 | BUTTON, MULTI (NOT INCLUDED WITH KV-36HS420 BEZNET ASSY) |                     | 48             | 1-452-885-11 | MAGNET, LANDING (ALL EXCEPT KV-36HS420)      |
| $\triangle$ 38 | 1-451-498-41 | COIL, NA ROTATION  |                     | 49             | 4-083-414-01 | PIECE A(110), CONV CORRECT (KV-32HS420 ONLY) |
| 39             | 4-102-136-01 | SUPPORTER, CRT   |                     | 49             | 4-085-128-01 | PIECE A(110), CONV CORRECT (KV-36HS420 ONLY) |
| $\triangle$ 40 | 8-735-047-05 | CRT 34RSN (A80LPD80X) (KV-32HS420 ONLY)                  |                     | 50             | 4-081-170-01 | PLATE, TLH CORRECTION                        |
| $\triangle$ 40 | 8-735-048-05 | CRT 38RSN (KV-36HS420 ONLY)                              |                     |                |              |  |
| $\triangle$ 41 | 8-451-512-12 | DY Y34RSC-M (KV-32HS420 ONLY)                            |                     |                |              |  |
| $\triangle$ 41 | 8-451-516-21 | DY Y38RSC-V (KV-36HS420 ONLY)                            |                     |                |              |  |
| $\triangle$ 42 | 8-453-023-21 | NECK ASSEMBLY NA328-M2                                   |                     |                |              |  |





| REF. NO. | PART NO.  | DESCRIPTION  | VALUES            | REF. NO. | PART NO.                | DESCRIPTION  | VALUES           |
|----------|---|--------------|-------------------|----------|-------------------------|--------------|------------------|
| C5056    | 1-162-318-11                                    | CERAMIC      | 0.001μF 10% 500V  | C5511    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5057    | 1-104-332-11                                    | CERAMIC      | 470pF 10% 2KV     | C5512    | 1-162-974-11            | CERAMIC CHIP | 0.01μF 50V       |
|          | (ALL EXCEPT KV-30HS420)                         |              |                   | C5513    | 1-162-974-11            | CERAMIC CHIP | 0.01μF 50V       |
| C5058    | 1-162-116-00                                    | CERAMIC      | 680pF 10% 2KV     | C5514    | 1-107-826-11            | CERAMIC CHIP | 0.1μF 10% 16V    |
| C5059    | 1-162-116-00                                    | CERAMIC      | 680pF 10% 2KV     | C5515    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5060    | 1-137-417-11                                    | MYLAR        | 0.015μF 10% 100V  | C5516    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5061    | 1-117-833-21                                    | FILM         | 5100pF 3% 1.5KV   | C5517    | 1-129-716-00            | FILM         | 0.015μF 5% 400V  |
|          | (KV-30HS420 ONLY)                               |              |                   | C5518    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5061    | 1-117-837-21                                    | FILM         | 7500pF 3% 1.5KV   | C5519    | 1-162-927-11            | CERAMIC CHIP | 100pF 5% 50V     |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |              |                   |          | (KV-30HS420 ONLY)       |              |                  |
| C5061    | 1-117-839-11                                    | FILM         | 9100pF 3% 1.5KV   | C5519    | 1-165-176-11            | CERAMIC CHIP | 0.047μF 10% 16V  |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |              |                   |          | (ALL EXCEPT KV-30HS420) |              |                  |
| C5064    | 1-117-665-11                                    | FILM         | 0.33μF 5% 250V    | C5520    | 1-107-826-11            | CERAMIC CHIP | 0.1μF 10% 16V    |
|          | (KV-30HS420 ONLY)                               |              |                   | C5521    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5064    | 1-117-667-71                                    | FILM         | 0.47μF 5% 250V    | C5522    | 1-115-416-11            | CERAMIC CHIP | 0.001μF 5% 25V   |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |              |                   | C5523    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5064    | 1-117-668-31                                    | FILM         | 0.56μF 5% 250V    | C5524    | 1-107-826-11            | CERAMIC CHIP | 0.1μF 10% 16V    |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |              |                   | C5526    | 1-162-967-11            | CERAMIC CHIP | 0.0033μF 10% 50V |
| C5065    | 1-107-506-11                                    | FILM         | 0.68μF 3% 400V    | C5527    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |              |                   | C5528    | 1-129-709-91            | FILM         | 0.0039μF 5% 630V |
| C5065    | 1-109-837-11                                    | FILM         | 0.56μF 3% 400V    | C5529    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |              |                   | C5530    | 1-136-167-00            | FILM         | 0.15μF 5% 50V    |
| C5065    | 1-117-664-11                                    | FILM         | 0.27μF 3% 250V    | C5531    | 1-130-495-00            | MYLAR        | 0.1μF 5% 50V     |
|          | (KV-30HS420 ONLY)                               |              |                   | C5533    | 1-126-961-11            | ELECT        | 2.2μF 20% 50V    |
| C5066    | 1-109-921-11                                    | CERAMIC      | 0.0015μF 10% 500V | C5534    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
| C5070    | 1-107-826-11                                    | CERAMIC CHIP | 0.1μF 10% 16V     | C5535    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
| C5071    | 1-107-826-11                                    | CERAMIC CHIP | 0.1μF 10% 16V     | C5540    | 1-162-964-11            | CERAMIC CHIP | 0.001μF 10% 50V  |
| C5074    | 1-162-966-11                                    | CERAMIC CHIP | 0.0022μF 10% 50V  | C5548    | 1-137-194-81            | FILM         | 0.47μF 5% 50V    |
| C5075    | 1-107-826-11                                    | CERAMIC CHIP | 0.1μF 10% 16V     | C5550    | 1-107-826-11            | CERAMIC CHIP | 0.1μF 10% 16V    |
| C5076    | 1-107-826-11                                    | CERAMIC CHIP | 0.1μF 10% 16V     | C5551    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
| C5077    | 1-164-360-11                                    | CERAMIC CHIP | 0.1μF 16V         | C5552    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
| C5078    | 1-127-715-91                                    | CERAMIC CHIP | 0.22μF 10% 16V    | C5598    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
| C5079    | 1-162-965-11                                    | CERAMIC CHIP | 0.0015μF 10% 50V  | C5609    | 1-104-665-11            | ELECT        | 100μF 20% 25V    |
| C5082    | 1-117-832-21                                    | FILM         | 4700pF 3% 1.5KV   | C5623    | 1-104-665-11            | ELECT        | 100μF 20% 25V    |
|          | (KV-30HS420 ONLY)                               |              |                   | C6502    | 1-162-964-11            | CERAMIC CHIP | 0.001μF 10% 50V  |
| C5082    | 1-117-837-21                                    | FILM         | 7500pF 3% 1.5KV   | C6503    | 1-131-940-11            | ELECT        | 1200μF 20% 250V  |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |              |                   | C6507    | 1-130-495-00            | MYLAR        | 0.1μF 5% 50V     |
| C5082    | 1-117-839-11                                    | FILM         | 9100pF 3% 1.5KV   | C6508    | 1-126-947-11            | ELECT        | 47μF 20% 35V     |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |              |                   | C6510    | 1-130-495-00            | MYLAR        | 0.1μF 5% 50V     |
| C5084    | 1-126-941-11                                    | ELECT        | 470μF 20% 25V     | C6511    | 1-162-970-11            | CERAMIC CHIP | 0.01μF 10% 25V   |
| C5086    | 1-126-941-11                                    | ELECT        | 470μF 20% 25V     | C6513    | 1-126-940-11            | ELECT        | 330μF 20% 25V    |
| C5502    | 1-126-941-11                                    | ELECT        | 470μF 20% 25V     | C6514    | 1-126-767-11            | ELECT        | 1000μF 20% 16V   |
| C5504    | 1-126-947-11                                    | ELECT        | 47μF 20% 35V      | C6515    | 1-107-826-11            | CERAMIC CHIP | 0.1μF 10% 16V    |
| C5505    | 1-162-970-11                                    | CERAMIC CHIP | 0.01μF 10% 25V    | C6516    | 1-162-964-11            | CERAMIC CHIP | 0.001μF 10% 50V  |
| C5506    | 1-162-962-11                                    | CERAMIC CHIP | 470pF 10% 50V     |          |                         |              |                  |



| REF. NO. | PART NO.     | DESCRIPTION  | VALUES   |     |      | REF. NO. | PART NO.     | DESCRIPTION                        | VALUES   |     |      |
|----------|--------------|--------------|----------|-----|------|----------|--------------|------------------------------------|----------|-----|------|
| C6517    | 1-126-963-11 | ELECT        | 4.7μF    | 20% | 50V  | C8031    | 1-126-933-11 | ELECT                              | 100μF    | 20% | 16V  |
| C6518    | 1-136-479-11 | FILM         | 0.001μF  | 5%  | 100V | C8032    | 1-136-813-11 | FILM                               | 680pF    | 5%  | 100V |
| C6519    | 1-126-964-11 | ELECT        | 10μF     | 20% | 50V  | C8033    | 1-126-964-11 | ELECT                              | 10μF     | 20% | 50V  |
| C6525    | 1-125-969-91 | CERAMIC      | 680pF    | 10% | 1KV  | C8035    | 1-100-614-81 | CERAMIC                            | 330pF    | 5%  | 1KV  |
| C6526    | 1-125-969-91 | CERAMIC      | 680pF    | 10% | 1KV  | C8036    | 1-100-614-81 | CERAMIC                            | 330pF    | 5%  | 1KV  |
| C6532    | 1-137-741-22 | FILM         | 39000pF  | 3%  | 800V | C8037    | 1-165-953-11 | FILM                               | 47000pF  | 3%  | 800V |
| C6546    | 1-126-974-11 | ELECT        | 3300μF   | 20% | 50V  | C8040    | 1-126-969-11 | ELECT                              | 220μF    | 20% | 50V  |
| C6549    | 1-126-969-11 | ELECT        | 220μF    | 20% | 50V  | C8041    | 1-130-777-00 | MYLAR                              | 0.1μF    | 5%  | 100V |
| C6550    | 1-126-968-11 | ELECT        | 100μF    | 20% | 50V  | C8042    | 1-136-189-00 | MYLAR                              | 0.1μF    | 10% | 250V |
| C6551    | 1-164-227-11 | CERAMIC CHIP | 0.022μF  | 10% | 25V  | C8045    | 1-130-475-00 | MYLAR                              | 0.0022μF | 5%  | 50V  |
| C6552    | 1-126-937-11 | ELECT        | 4700μF   | 20% | 16V  | C8046    | 1-107-444-11 | CERAMIC<br>(ALL EXCEPT KV-30HS420) | 100pF    | 5%  | 2KV  |
| C6554    | 1-126-768-11 | ELECT        | 2200μF   | 20% | 16V  | C8047    | 1-162-130-11 | CERAMIC<br>(ALL EXCEPT KV-30HS420) | 180pF    | 10% | 2KV  |
| C6555    | 1-104-665-11 | ELECT        | 100μF    | 20% | 25V  | C8048    | 1-137-378-11 | MYLAR                              | 0.22μF   | 5%  | 50V  |
| C6556    | 1-131-867-51 | ELECT        | 100μF    |     | 160V | C8050    | 1-100-122-31 | FILM<br>(ALL EXCEPT KV-29DRC420LS) | 0.022μF  | 5%  | 400V |
| C6557    | 1-107-654-11 | ELECT        | 33μF     | 20% | 250V | C8050    | 1-129-718-00 | FILM<br>(KV-29DRC420LS ONLY)       | 0.022μF  | 5%  | 630V |
| C6558    | 1-126-967-11 | ELECT        | 47μF     | 20% | 50V  | C8051    | 1-126-964-11 | ELECT                              | 10μF     | 20% | 50V  |
| C6559    | 1-126-942-61 | ELECT        | 1000μF   | 20% | 25V  | C8052    | 1-104-665-11 | ELECT                              | 100μF    | 20% | 25V  |
| C6584    | 1-165-528-31 | MYLAR        | 0.1μF    | 10  | 0V   | C8053    | 1-162-117-00 | CERAMIC                            | 100pF    | 10% | 500V |
| C6590    | 1-131-940-11 | ELECT        | 1200μF   | 20% | 250V | C8054    | 1-102-244-00 | CERAMIC                            | 220pF    | 10% | 500V |
| C6592    | 1-119-898-51 | CERAMIC      | 470pF    | 10% | 250V | C8055    | 1-100-144-31 | FILM<br>(KV-30HS420 ONLY)          | 0.0068μF | 5%  | 630V |
| C6593    | 1-126-768-11 | ELECT        | 2200μF   | 20% | 16V  | C8055    | 1-136-535-91 | FILM<br>(ALL EXCEPT KV-30HS420)    | 0.0018μF | 5%  | 630V |
| C6595    | 1-104-666-11 | ELECT        | 220μF    | 20% | 25V  | C8056    | 1-162-970-11 | CERAMIC CHIP                       | 0.01μF   | 10% | 25V  |
| C6596    | 1-126-960-11 | ELECT        | 1μF      | 20% | 50V  | C8058    | 1-137-194-81 | FILM                               | 0.47μF   | 5%  | 50V  |
| C6597    | 1-126-943-11 | ELECT        | 2200μF   | 20% | 25V  | C8059    | 1-126-947-11 | ELECT                              | 47μF     | 20% | 35V  |
| C8001    | 1-126-964-11 | ELECT        | 10μF     | 20% | 50V  | C8060    | 1-106-371-00 | ELECT<br>(KV-30HS420 ONLY)         | 0.015μF  |     | 200V |
| C8002    | 1-126-964-11 | ELECT        | 10μF     | 20% | 50V  | C8060    | 1-107-635-11 | ELECT<br>(ALL EXCEPT KV-30HS420)   | 4.7μF    | 20% | 160V |
| C8003    | 1-162-970-11 | CERAMIC CHIP | 0.01μF   | 10% | 25V  | C8063    | 1-165-607-91 | FILM                               | 10000pF  | 3%  | 800V |
| C8005    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10% | 16V  | C8065    | 1-127-715-91 | CERAMIC CHIP                       | 0.22μF   | 10% | 16V  |
| C8006    | 1-126-960-11 | ELECT        | 1μF      | 20% | 50V  | C8073    | 1-162-962-11 | CERAMIC CHIP                       | 470pF    | 10% | 50V  |
| C8007    | 1-162-971-11 | CERAMIC CHIP | 0.001μF  | 10% | 50V  | C8074    | 1-162-970-11 | CERAMIC CHIP                       | 0.01μF   | 10% | 25V  |
| C8012    | 1-126-947-11 | ELECT        | 47μF     | 20% | 35V  | C8075    | 1-162-970-11 | CERAMIC CHIP                       | 0.01μF   | 10% | 25V  |
| C8015    | 1-126-947-11 | ELECT        | 47μF     | 20% | 35V  | C8076    | 1-126-963-11 | ELECT                              | 4.7μF    | 20% | 50V  |
| C8016    | 1-130-495-00 | MYLAR        | 0.1μF    | 5%  | 50V  | C8077    | 1-162-970-11 | CERAMIC CHIP                       | 0.01μF   | 10% | 25V  |
| C8017    | 1-126-964-11 | ELECT        | 10μF     | 20% | 50V  | C8079    | 1-127-715-91 | CERAMIC CHIP                       | 0.22μF   | 10% | 16V  |
| C8018    | 1-126-964-11 | ELECT        | 10μF     | 20% | 50V  | C8139    | 1-162-966-11 | CERAMIC CHIP                       | 0.0022μF | 10% | 50V  |
| C8020    | 1-130-495-00 | MYLAR        | 0.1μF    | 5%  | 50V  |          |              |                                    |          |     |      |
| C8021    | 1-162-974-11 | CERAMIC CHIP | 0.01μF   |     | 50V  |          |              |                                    |          |     |      |
| C8024    | 1-126-967-11 | ELECT        | 47μF     | 20% | 50V  |          |              |                                    |          |     |      |
| C8025    | 1-126-947-11 | ELECT        | 47μF     | 20% | 35V  |          |              |                                    |          |     |      |
| C8027    | 1-130-495-00 | MYLAR        | 0.1μF    | 5%  | 50V  |          |              |                                    |          |     |      |
| C8028    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF | 10% | 50V  |          |              |                                    |          |     |      |
| C8030    | 1-162-970-11 | CERAMIC CHIP | 0.01μF   | 10% | 25V  |          |              |                                    |          |     |      |



| REF. NO.         | PART NO.     | DESCRIPTION  | VALUES  | REF. NO.                   | PART NO.     | DESCRIPTION | VALUES        |
|------------------|--------------|--------------|---|----------------------------|--------------|-------------|---------------|
| <b>CONNECTOR</b> |              |              |   | D5508                      | 8-719-404-50 | DIODE       | MA111-TX      |
| *                | CN5001       | 1-779-890-11 | CONNECTOR, BOARD TO BOARD 10P                     | D5511                      | 8-719-062-51 | DIODE       | 1PS226-115    |
| *                | CN5002       | 1-580-798-11 | CONNECTOR PIN (DY) 6P                             | D5512                      | 8-719-062-51 | DIODE       | 1PS226-115    |
| *                | CN5003       | 1-564-507-11 | PLUG, CONNECTOR 4P                                | D5513                      | 8-719-404-50 | DIODE       | MA111-TX      |
| *                | CN5009       | 1-779-890-11 | CONNECTOR, BOARD TO BOARD 10P                     | D5514                      | 8-719-060-90 | DIODE       | S2L60F        |
| *                | CN5011       | 1-779-890-11 | CONNECTOR, BOARD TO BOARD 10P                     | D5515                      | 8-719-404-50 | DIODE       | MA111-TX      |
| *                | CN5509       | 1-564-512-11 | PLUG, CONNECTOR 9P<br>(KV-29DRC420LS ONLY)        | D6502                      | 8-719-979-64 | DIODE       | UF4005PKG23   |
| *                | CN5509       | 1-564-515-11 | PLUG, CONNECTOR 12P<br>(ALL EXCEPT KV-29DRC420LS) | D6504                      | 8-719-075-66 | DIODE       | D5LC20U-4012  |
| *                | CN6502       | 1-766-240-11 | PIN, CONNECTOR (PC BOARD) 2P                      | D6505                      | 8-719-404-50 | DIODE       | MA111-TX      |
| *                | CN6503       | 1-564-508-11 | PLUG, CONNECTOR 5P                                | D6508                      | 8-719-982-27 | DIODE       | MTZJ-33C      |
| *                | CN6504       | 1-564-515-11 | PLUG, CONNECTOR 12P                               | D6509                      | 8-719-068-00 | DIODE       | ERC04-06SE    |
| *                | CN6506       | 1-779-890-11 | CONNECTOR, BOARD TO BOARD 10P                     | (ALL EXCEPT KV-29DRC420LS) |              |             | ERC04-06SE    |
| <b>DIODE</b>     |              |              |   | D6510                      | 8-719-068-00 | DIODE       | ERC04-06SE    |
| D5001            | 8-719-083-60 | DIODE        | UDZSTE-174.7B                                     | (ALL EXCEPT KV-29DRC420LS) |              |             | D10SC4M       |
| D5002            | 8-719-908-03 | DIODE        | GP08D   | D6513                      | 8-719-510-12 | DIODE       | D10SC4M       |
| D5003            | 8-719-028-45 | DIODE        | D2L20U  | D6514                      | 8-719-060-89 | DIODE       | D4SBS6-F      |
| D5004            | 8-719-083-82 | DIODE        | UDZS-TE17-12B                                     | D6516                      | 8-719-075-66 | DIODE       | D5LC20U-4012  |
| D5005            | 8-719-404-50 | DIODE        | MA111-TX  | D6518                      | 8-719-052-90 | DIODE       | D1NL40-TA2    |
| D5006            | 8-719-404-50 | DIODE        | MA111-TX  | D6519                      | 8-719-063-74 | DIODE       | D1NL20U-TR2   |
| D5007            | 8-719-404-50 | DIODE        | MA111-TX  | D6520                      | 8-719-063-74 | DIODE       | D1NL20U-TR2   |
| D5008            | 8-719-404-50 | DIODE        | MA111-TX  | D6521                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5010            | 8-719-404-50 | DIODE        | MA111-TX  | D6523                      | 8-719-060-89 | DIODE       | D4SBS6-F      |
| D5011            | 8-719-109-63 | DIODE        | RD3.0ESB2   | D6524                      | 8-719-062-40 | DIODE       | D4SBL20μF3    |
| D5014            | 8-719-075-66 | DIODE        | D5LC20U-4012                                      | D6525                      | 8-719-982-27 | DIODE       | MTZJ-33C      |
| D5016            | 8-719-028-45 | DIODE        | D2L20U  | D6530                      | 8-719-510-53 | DIODE       | D4SB60L       |
| D5017            | 8-719-028-45 | DIODE        | D2L20U  | D6532                      | 8-719-948-45 | DIODE       | ERA22-08      |
| D5018            | 8-719-083-83 | DIODE        | UDZS-TE17-15B                                     | D6533                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5019            | 8-719-404-50 | DIODE        | MA111-TX  | D6534                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5023            | 8-719-061-21 | DIODE        | FMQ-G5FMS   | D6537                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5027            | 8-719-404-50 | DIODE        | MA111-TX  | D6538                      | 8-719-109-85 | DIODE       | RD5.1ESB2     |
| D5028            | 8-719-404-50 | DIODE        | MA111-TX  | D8001                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5032            | 8-719-404-50 | DIODE        | MA111-TX  | D8003                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5035            | 8-719-302-43 | DIODE        | EL1Z  | D8005                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5036            | 8-719-302-43 | DIODE        | EL1Z  | D8006                      | 8-719-063-74 | DIODE       | D1NL20U-TR2   |
| D5501            | 8-719-404-50 | DIODE        | MA111-TX  | D8007                      | 8-719-404-50 | DIODE       | MA111-TX      |
| D5502            | 8-719-404-50 | DIODE        | MA111-TX  | D8009                      | 8-719-083-83 | DIODE       | UDZS-TE17-15B |
| D5504            | 8-719-404-50 | DIODE        | MA111-TX  | D8010                      | 8-719-979-64 | DIODE       | UF4005PKG23   |
| D5506            | 8-719-404-50 | DIODE        | MA111-TX  | D8011                      | 8-719-110-41 | DIODE       | RD15ESB2      |
|                  |              |              |   | D8012                      | 8-719-110-41 | DIODE       | RD15ESB2      |
|                  |              |              |   | D8013                      | 8-719-083-83 | DIODE       | UDZS-TE17-15B |
|                  |              |              |   | D8014                      | 8-719-083-83 | DIODE       | UDZS-TE17-15B |
|                  |              |              |   | D8015                      | 8-719-404-50 | DIODE       | MA111-TX      |
|                  |              |              |   | D8016                      | 8-719-948-45 | DIODE       | ERA22-08      |
|                  |              |              |   | D8017                      | 8-719-948-45 | DIODE       | ERA22-08      |



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.

| REF. NO.            | PART NO.                   | DESCRIPTION | VALUES        | REF. NO.              | PART NO.     | DESCRIPTION | VALUES               |
|---------------------|----------------------------|-------------|---------------|-----------------------|--------------|-------------|----------------------|
| D8018               | 8-719-948-45               | DIODE       | ERA22-08      | IC8002                | 6-705-810-01 | IC          | MCZ3001DB            |
| D8022               | 8-719-063-74               | DIODE       | D1NL20U-TR2   | 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               | 8-719-069-54               | DIODE       | UDZSTE-175.1B | <b>CHIP CONDUCTOR</b> |              |             |                      |
| D8030               | 8-719-083-66               | DIODE       | UDZSTE-1718B  | JR5000                | 1-216-864-11 | SHORT CHIP  |                      |
| D8034               | 8-719-921-63               | DIODE       | MTZJ-7.5B     | JR5001                | 1-216-864-11 | SHORT CHIP  |                      |
| D8140               | 8-719-404-50               | DIODE       | MA111-TX      | JR5002                | 1-216-864-11 | SHORT CHIP  |                      |
| <b>FERRITE BEAD</b> |                            |             |               | JR5003                | 1-216-864-11 | SHORT CHIP  |                      |
| FB5001              | 1-410-397-21               | FERRITE     | 1.1 $\mu$ H   | JR5004                | 1-216-864-11 | SHORT CHIP  |                      |
| FB5002              | 1-543-298-11               | FERRITE     | 0 $\mu$ H     | JR5005                | 1-216-864-11 | SHORT CHIP  |                      |
| FB5003              | 1-410-397-21               | FERRITE     | 1.1 $\mu$ H   | JR5006                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6501              | 1-410-397-21               | FERRITE     | 1.1 $\mu$ H   | JR5007                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6508              | 1-410-396-41               | FERRITE     | 0.45 $\mu$ H  | JR5008                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6509              | 1-410-396-41               | FERRITE     | 0.45 $\mu$ H  | JR5009                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6519              | 1-410-397-21               | FERRITE     | 1.1 $\mu$ H   | JR5010                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6520              | 1-412-911-11               | FERRITE     | 0 $\mu$ H     | JR5011                | 1-216-864-11 | SHORT CHIP  |                      |
| FB6521              | 1-412-911-11               | FERRITE     | 0 $\mu$ H     | JR5012                | 1-216-864-11 | SHORT CHIP  |                      |
| FB8001              | 1-412-911-11               | FERRITE     | 0 $\mu$ H     | JR5013                | 1-216-864-11 | SHORT CHIP  |                      |
| FB8002              | 1-412-911-11               | FERRITE     | 0 $\mu$ H     | JR5014                | 1-216-864-11 | SHORT CHIP  |                      |
| <b>IC</b>           |                            |             |               | JR5015                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5001              | 8-759-701-01               | IC          | NJM2904M      | JR5016                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5002              | 8-759-700-07               | IC          | NJM2903M      | JR5065                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5003              | 8-759-701-01               | IC          | NJM2904M      | JR5501                | 1-216-864-11 | SHORT CHIP  |                      |
|                     | (ALL EXCEPT KV-29DRC420LS) |             |               | JR5504                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5004              | 8-759-696-71               | IC          | STV9379A      | JR5505                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5005              | 8-759-803-42               | IC          | LA6500-FA     | JR8000                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5006              | 8-749-013-76               | IC          | PQ6RD83B      | JR8001                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5007              | 8-759-981-61               | IC          | LM2901M       | JR8002                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5502              | 8-759-981-61               | IC          | LM2901M       | JR8003                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5504              | 8-759-803-42               | IC          | LA6500-FA     | JR8005                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5506              | 8-759-803-42               | IC          | LA6500-FA     | JR8006                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5511              | 8-759-701-01               | IC          | NJM2904M      | JR8007                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5512              | 8-759-929-65               | IC          | LM7912CT      | JR8022                | 1-216-864-11 | SHORT CHIP  |                      |
| IC5515              | 8-759-701-01               | IC          | NJM2904M      | JR8023                | 1-216-864-11 | SHORT CHIP  |                      |
| IC6501              | 6-705-810-01               | IC          | MCZ3001DB     | JR8052                | 1-216-864-11 | SHORT CHIP  | (KV-29DRC420LS ONLY) |
| IC6502              | 6-700-897-01               | IC          | PQ12RD21      | <b>COIL</b>           |              |             |                      |
| IC6503              | 8-749-012-13               | IC          | DM-58         | L5001                 | 1-406-665-11 | INDUCTOR    | 100 $\mu$ H          |
| IC6505              | 8-749-921-86               | IC          | SE-140N       | L5003                 | 1-406-892-31 | INDUCTOR    | 4MH                  |
| IC8001              | 8-759-700-07               | IC          | NJM2903M      |                       |              |             |                      |







| REF. NO. | PART NO.     | DESCRIPTION                               | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION                            | VALUES |       |       |
|----------|--------------|---|--------|-------|-------|----------|--------------|--|--------|-------|-------|
| R5053    | 1-215-890-11 | METAL OXIDE<br>(ALL EXCEPT KV-30HS420)    | 470    | 5%    | 2W    | R5081    | 1-218-728-11 | METAL CHIP<br>(KV-30HS420 ONLY)        | 33K    | 0.5%  | 1/10W |
| R5053    | 1-215-892-11 | METAL OXIDE<br>(KV-30HS420 ONLY)          | 1K     | 5%    | 2W    | R5081    | 1-218-740-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)  | 100K   | 0.50% | 1/10W |
| R5054    | 1-216-833-11 | METAL CHIP                                | 10K    | 5%    | 1/10W | R5082    | 1-218-716-11 | METAL CHIP                             | 10K    | 0.50% | 1/10W |
| R5060    | 1-216-833-11 | METAL CHIP                                | 10K    | 5%    | 1/10W | R5083    | 1-218-700-11 | METAL CHIP                             | 2.2K   | 0.50% | 1/10W |
| R5061    | 1-216-833-11 | METAL CHIP                                | 10K    | 5%    | 1/10W | R5084    | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W |
| R5062    | 1-216-845-11 | METAL CHIP                                | 100K   | 5%    | 1/10W | R5085    | 1-216-853-11 | METAL CHIP                             | 470K   | 5%    | 1/10W |
| R5063    | 1-218-722-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)     | 18K    | 0.50% | 1/10W | R5086    | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W |
| R5063    | 1-218-724-11 | METAL CHIP<br>(KV-30HS420 ONLY)           | 22K    | 0.50% | 1/10W | R5087    | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W |
| R5064    | 1-218-748-11 | METAL CHIP                                | 220K   | 0.50% | 1/10W | R5090    | 1-216-369-00 | METAL OXIDE                            | 1      | 5%    | 2W    |
| R5065    | 1-218-749-11 | METAL CHIP<br>(KV-30HS420 ONLY)           | 240K   | 0.50% | 1/10W | R5091    | 1-249-389-11 | CARBON                                 | 4.7    | 5%    | 1/4W  |
| R5065    | 1-218-750-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)     | 270K   | 0.50% | 1/10W | R5092    | 1-216-821-11 | METAL CHIP                             | 1K     | 5%    | 1/10W |
| R5066    | 1-218-746-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)     | 180K   | 0.50% | 1/10W | R5093    | 1-218-717-11 | METAL CHIP                             | 11K    | 0.50% | 1/10W |
| R5066    | 1-218-748-11 | METAL CHIP<br>(KV-30HS420 ONLY)           | 220K   | 0.50% | 1/10W | R5095    | 1-249-377-11 | CARBON                                 | 0.47   | 5%    | 1/4W  |
| R5068    | 1-218-750-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 270K   | 0.50% | 1/10W | R5096    | 1-249-377-11 | CARBON                                 | 0.47   | 5%    | 1/4W  |
| R5069    | 1-216-841-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 47K    | 5%    | 1/10W | R5097    | 1-249-380-11 | CARBON                                 | 0.82   | 5%    | 1/4W  |
| R5070    | 1-218-710-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 5.6K   | 0.50% | 1/10W | R5098    | 1-249-379-11 | CARBON                                 | 0.68   | 5%    | 1/4W  |
| R5071    | 1-218-704-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 3.3K   | 0.50% | 1/10W | R5101    | 1-218-708-11 | METAL CHIP                             | 4.7K   | 0.50% | 1/10W |
| R5072    | 1-216-833-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 10K    | 5%    | 1/10W | R5102    | 1-218-692-11 | METAL CHIP                             | 1K     | 0.50% | 1/10W |
| R5073    | 1-216-833-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 10K    | 5%    | 1/10W | R5103    | 1-218-700-11 | METAL CHIP                             | 2.2K   | 0.50% | 1/10W |
| R5074    | 1-260-328-11 | CARBON<br>(ALL EXCEPT KV-29DRC420LS)      | 1K     | 5%    | 1/2W  | R5104    | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W |
| R5076    | 1-215-900-11 | METAL OXIDE<br>(ALL EXCEPT KV-29DRC420LS) | 22K    | 5%    | 2W    | R5105    | 1-216-841-11 | METAL CHIP                             | 47K    | 5%    | 1/10W |
| R5077    | 1-215-900-11 | METAL OXIDE<br>(ALL EXCEPT KV-29DRC420LS) | 22K    | 5%    | 2W    | R5106    | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W |
| R5078    | 1-218-684-11 | METAL CHIP<br>(ALL EXCEPT KV-29DRC420LS)  | 470    | 0.50% | 1/10W | R5107    | 1-249-393-11 | CARBON                                 | 10     | 5%    | 1/4W  |
| R5079    | 1-218-720-11 | METAL CHIP                                | 15K    | 0.50% | 1/10W | R5108    | 1-218-736-11 | METAL CHIP                             | 68K    | 0.50% | 1/10W |
| R5080    | 1-216-829-11 | METAL CHIP                                | 4.7K   | 5%    | 1/10W | R5109    | 1-218-728-11 | METAL CHIP                             | 33K    | 0.50% | 1/10W |
|          |              |   |        |       |       | R5110    | 1-249-401-11 | CARBON                                 | 47     | 5%    | 1/4W  |
|          |              |   |        |       |       | R5111    | 1-216-830-11 | METAL CHIP                             | 5.6K   | 5%    | 1/10W |
|          |              |   |        |       |       | R5112    | 1-216-813-11 | METAL CHIP                             | 220    | 5%    | 1/10W |
|          |              |   |        |       |       | R5113    | 1-260-107-11 | CARBON                                 | 4.7K   | 5%    | 1/2W  |
|          |              |   |        |       |       | R5115    | 1-249-417-11 | CARBON                                 | 1K     | 5%    | 1/4W  |
|          |              |   |        |       |       | R5116    | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W |
|          |              |   |        |       |       | R5117    | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5%    | 1/10W |
|          |              |   |        |       |       | R5118    | 1-216-797-11 | METAL CHIP                             | 10     | 5%    | 1/10W |
|          |              |   |        |       |       | R5120    | 1-218-702-11 | METAL CHIP                             | 2.7K   | 0.50% | 1/10W |
|          |              |   |        |       |       | R5124    | 1-216-809-11 | METAL CHIP                             | 100    | 5%    | 1/10W |
|          |              |   |        |       |       | R5125    | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W |
|          |              |   |        |       |       | R5126    | 1-216-809-11 | METAL CHIP                             | 100    | 5%    | 1/10W |
|          |              |   |        |       |       | R5127    | 1-215-890-11 | METAL OXIDE<br>(ALL EXCEPT KV-30HS420) | 470    | 5%    | 2W    |
|          |              |   |        |       |       | R5127    | 1-215-892-11 | METAL OXIDE<br>(KV-30HS420 ONLY)       | 1K     | 5%    | 2W    |
|          |              |   |        |       |       | R5128    | 1-216-828-11 | METAL CHIP                             | 3.9K   | 5%    | 1/10W |



| REF. NO. | PART NO.  | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.  | DESCRIPTION | VALUES |       |       |
|----------|---|-------------|--------|-------|-------|----------|---|-------------|--------|-------|-------|
| R5129    | 1-216-809-11                                    | METAL CHIP  | 100    | 5%    | 1/10W | R5151    | 1-216-829-11                                    | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R5130    | 1-216-797-11                                    | METAL CHIP  | 10     | 5%    | 1/10W | R5153    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
| R5131    | 1-218-704-11                                    | METAL CHIP  | 3.3K   | 0.50% | 1/10W | R5154    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
|          | (ALL EXCEPT KV-30HS420)                         |             |        |       |       | R5158    | 1-216-829-11                                    | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R5131    | 1-218-710-11                                    | METAL CHIP  | 5.6K   | 0.5%  | 1/10W | R5160    | 1-216-809-11                                    | METAL CHIP  | 100    | 5%    | 1/10W |
|          | (KV-30HS420 ONLY)                               |             |        |       |       |          |   |             |        |       |       |
| R5132    | 1-215-895-11                                    | METAL OXIDE | 3.3K   | 5%    | 2W    | R5163    | 1-216-828-11                                    | METAL CHIP  | 3.9K   | 5%    | 1/10W |
|          | (KV-30HS420 ONLY)                               |             |        |       |       | R5164    | 1-216-845-11                                    | METAL CHIP  | 100K   | 5%    | 1/10W |
| R5132    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    | R5165    | 1-216-841-11                                    | METAL CHIP  | 47K    | 5%    | 1/10W |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       | R5170    | 1-215-896-00                                    | METAL OXIDE | 4.7K   |       | 2W    |
| R5132    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    |          | (KV-30HS420 ONLY)                               |             |        |       |       |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       | R5170    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    |
|          |   |             |        |       |       |          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       |
| R5133    | 1-215-895-11                                    | METAL OXIDE | 3.3K   | 5%    | 2W    | R5170    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    |
|          | (KV-30HS420 ONLY)                               |             |        |       |       |          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       |
| R5133    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    | R5171    | 1-215-896-00                                    | METAL OXIDE | 4.7K   |       | 2W    |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       |          | (KV-30HS420 ONLY)                               |             |        |       |       |
| R5133    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    |          |   |             |        |       |       |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       | R5171    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    |
|          |   |             |        |       |       |          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       |
| R5135    | 1-215-895-11                                    | METAL OXIDE | 3.3K   | 5%    | 2W    | R5171    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    |
|          | (KV-30HS420 ONLY)                               |             |        |       |       |          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       |
| R5135    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    | R5172    | 1-260-288-11                                    | CARBON      | 0.47   | 5%    | 1/2W  |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       |          |   |             |        |       |       |
| R5135    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    | R5173    | 1-260-288-11                                    | CARBON      | 0.47   | 5%    | 1/2W  |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       | R5176    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
|          |   |             |        |       |       | R5501    | 1-218-716-11                                    | METAL CHIP  | 10K    | 0.5%  | 1/10W |
| R5136    | 1-215-895-11                                    | METAL OXIDE | 3.3K   | 5%    | 2W    |          | (KV-30HS420 ONLY)                               |             |        |       |       |
|          | (KV-30HS420 ONLY)                               |             |        |       |       | R5501    | 1-218-730-11                                    | METAL CHIP  | 39K    | 0.50% | 1/10W |
| R5136    | 1-215-917-11                                    | METAL OXIDE | 1K     | 5%    | 3W    |          | (ALL EXCEPT KV-30HS420)                         |             |        |       |       |
|          | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |             |        |       |       |          |   |             |        |       |       |
| R5136    | 1-215-918-00                                    | METAL OXIDE | 1.5K   |       | 3W    | R5502    | 1-216-864-11                                    | SHORT CHIP  |        |       |       |
|          | (KV-27HS420, 29DRC420LN ONLY)                   |             |        |       |       | R5503    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
|          |   |             |        |       |       | R5505    | 1-218-750-11                                    | METAL CHIP  | 270K   | 0.50% | 1/10W |
| R5137    | 1-216-825-11                                    | METAL CHIP  | 2.2K   | 5%    | 1/10W | R5506    | 1-216-845-11                                    | METAL CHIP  | 100K   | 5%    | 1/10W |
| R5138    | 1-216-821-11                                    | METAL CHIP  | 1K     | 5%    | 1/10W | R5507    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
| R5139    | 1-216-821-11                                    | METAL CHIP  | 1K     | 5%    | 1/10W |          |   |             |        |       |       |
| R5141    | 1-215-890-11                                    | METAL OXIDE | 470    | 5%    | 2W    | R5508    | 1-216-837-11                                    | METAL CHIP  | 22K    | 5%    | 1/10W |
| R5142    | 1-216-365-00                                    | METAL OXIDE | 0.47   | 5%    | 2W    | R5510    | 1-216-821-11                                    | METAL CHIP  | 1K     | 5%    | 1/10W |
|          |   |             |        |       |       | R5512    | 1-216-829-11                                    | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R5143    | 1-216-365-00                                    | METAL OXIDE | 0.47   | 5%    | 2W    | R5513    | 1-216-821-11                                    | METAL CHIP  | 1K     | 5%    | 1/10W |
| R5144    | 1-216-365-00                                    | METAL OXIDE | 0.47   | 5%    | 2W    | R5518    | 1-218-728-11                                    | METAL CHIP  | 33K    | 0.50% | 1/10W |
| R5145    | 1-215-880-00                                    | METAL OXIDE | 10     | 5%    | 2W    |          |   |             |        |       |       |
| R5146    | 1-249-437-11                                    | CARBON      | 47K    | 5%    | 1/4W  | R5519    | 1-218-740-11                                    | METAL CHIP  | 100K   | 0.50% | 1/10W |
| R5147    | 1-218-704-11                                    | METAL CHIP  | 3.3K   | 0.50% | 1/10W | R5520    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
|          | (ALL EXCEPT KV-30HS420)                         |             |        |       |       | R5521    | 1-216-833-11                                    | METAL CHIP  | 10K    | 5%    | 1/10W |
|          |   |             |        |       |       | R5522    | 1-218-716-11                                    | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R5147    | 1-218-710-11                                    | METAL CHIP  | 5.6K   | 0.5%  | 1/10W | R5523    | 1-218-744-11                                    | METAL CHIP  | 150K   | 0.50% | 1/10W |
|          | (KV-30HS420 ONLY)                               |             |        |       |       |          |   |             |        |       |       |
| R5148    | 1-215-865-11                                    | METAL OXIDE | 220    | 5%    | 1W    | R5524    | 1-216-839-11                                    | METAL CHIP  | 33K    | 5%    | 1/10W |
| R5150    | 1-216-829-11                                    | METAL CHIP  | 4.7K   | 5%    | 1/10W | R5525    | 1-216-853-11                                    | METAL CHIP  | 470K   | 5%    | 1/10W |



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

NOTE: Les composants identifiés par un triangle 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 |       |       |
|----------|----------------------------|-------------|--------|-------|-------|-------------------|----------------------------|-------------|--------|-------|-------|
| R5526    | 1-216-853-11               | METAL CHIP  | 470K   | 5%    | 1/10W | R5562             | 1-218-734-11               | METAL CHIP  | 56K    | 0.50% | 1/10W |
| R5527    | 1-216-833-11               | METAL CHIP  | 10K    | 5%    | 1/10W |                   | (ALL EXCEPT KV-29DRC420LS) |             |        |       |       |
| R5528    | 1-216-833-11               | METAL CHIP  | 10K    | 5%    | 1/10W | R5565             | 1-249-377-11               | CARBON      | 0.47   | 5%    | 1/4W  |
| R5529    | 1-218-702-11               | METAL CHIP  | 2.7K   | 0.50% | 1/10W | R5566             | 1-249-401-11               | CARBON      | 47     | 5%    | 1/4W  |
| R5530    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R5567             | 1-216-809-11               | METAL CHIP  | 100    | 5%    | 1/10W |
| R5532    | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W | R5568             | 1-216-853-11               | METAL CHIP  | 470K   | 5%    | 1/10W |
| R5533    | 1-218-740-11               | METAL CHIP  | 100K   | 0.50% | 1/10W | R5569             | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W |
| R5535    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R5570             | 1-216-833-11               | METAL CHIP  | 10K    | 5%    | 1/10W |
| R5536    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R5571             | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W |
| R5537    | 1-218-732-11               | METAL CHIP  | 47K    | 0.50% | 1/10W | R5572             | 1-216-833-11               | METAL CHIP  | 10K    | 5%    | 1/10W |
| R5538    | 1-216-837-11               | METAL CHIP  | 22K    | 5%    | 1/10W | R5576             | 1-249-395-11               | CARBON      | 15     | 5%    | 1/4W  |
| R5539    | 1-216-849-11               | METAL CHIP  | 220K   | 5%    | 1/10W | R5578             | 1-218-730-11               | METAL CHIP  | 39K    | 0.50% | 1/10W |
| R5540    | 1-214-800-11               | METAL       | 2.2    | 1%    | 1/2W  | R5579             | 1-218-732-11               | METAL CHIP  | 47K    | 0.50% | 1/10W |
| R5541    | 1-216-849-11               | METAL CHIP  | 220K   | 5%    | 1/10W | R5580             | 1-218-716-11               | METAL CHIP  | 10K    | 0.50% | 1/10W |
| R5542    | 1-216-837-11               | METAL CHIP  | 22K    | 5%    | 1/10W |                   | (ALL EXCEPT KV-30HS420)    |             |        |       |       |
| R5543    | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W | R5580             | 1-216-837-11               | METAL CHIP  | 22K    | 5%    | 1/10W |
| R5544    | 1-218-716-11               | METAL CHIP  | 10K    | 0.50% | 1/10W |                   | (KV-30HS420 ONLY)          |             |        |       |       |
| R5545    | 1-218-732-11               | METAL CHIP  | 47K    | 0.50% | 1/10W | R5581             | 1-218-708-11               | METAL CHIP  | 4.7K   | 0.50% | 1/10W |
| R5546    | 1-216-864-11               | SHORT CHIP  |        |       |       | R5582             | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W |
| R5547    | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W | R5588             | 1-216-353-00               | METAL OXIDE | 2.2    | 5%    | 1W    |
|          | (KV-30HS420 ONLY)          |             |        |       |       | R5593             | 1-218-692-11               | METAL CHIP  | 1K     | 0.50% | 1/10W |
| R5547    | 1-216-837-11               | METAL CHIP  | 22K    | 5%    | 1/10W | R5594             | 1-216-833-11               | METAL CHIP  | 10K    | 5%    | 1/10W |
|          | (ALL EXCEPT KV-30HS420)    |             |        |       |       |                   | (ALL EXCEPT KV-29DRC420LS) |             |        |       |       |
| R5548    | 1-216-821-11               | METAL CHIP  | 1K     | 5%    | 1/10W | R5597             | 1-218-750-11               | METAL CHIP  | 270K   | 0.50% | 1/10W |
|          | (KV-30HS420 ONLY)          |             |        |       |       | R5603             | 1-216-857-11               | METAL CHIP  | 1M     | 5%    | 1/10W |
| R5548    | 1-216-841-11               | METAL CHIP  | 47K    | 5%    | 1/10W | R5604             | 1-216-857-11               | METAL CHIP  | 1M     | 5%    | 1/10W |
|          | (ALL EXCEPT KV-30HS420)    |             |        |       |       | R5711             | 1-218-740-11               | METAL CHIP  | 100K   | 0.50% | 1/10W |
| R5549    | 1-218-692-11               | METAL CHIP  | 1K     | 0.50% | 1/10W | R5712             | 1-218-740-11               | METAL CHIP  | 100K   | 0.50% | 1/10W |
| R5551    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R6501             | 1-218-662-11               | METAL CHIP  | 56     | 0.50% | 1/10W |
| R5552    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R6502             | 1-260-131-11               | CARBON      | 470K   | 5%    | 1/2W  |
| R5553    | 1-218-724-11               | METAL CHIP  | 22K    | 0.50% | 1/10W | R6503             | 1-216-835-11               | METAL CHIP  | 15K    | 5%    | 1/10W |
| R5554    | 1-218-732-11               | METAL CHIP  | 47K    | 0.50% | 1/10W | R6505             | 1-218-668-11               | METAL CHIP  | 100    | 0.50% | 1/10W |
| R5555    | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W | R6507             | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R5556    | 1-218-708-11               | METAL CHIP  | 4.7K   | 0.50% | 1/10W | R6508             | 1-249-393-11               | CARBON      | 10     | 5%    | 1/4W  |
| R5557    | 1-218-692-11               | METAL CHIP  | 1K     | 0.50% | 1/10W | R6509             | 1-216-829-11               | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R5558    | 1-218-692-11               | METAL CHIP  | 1K     | 0.50% | 1/10W | R6510             | 1-249-393-11               | CARBON      | 10     | 5%    | 1/4W  |
| R5559    | 1-218-720-11               | METAL CHIP  | 15K    | 0.5%  | 1/10W | R6511             | 1-260-298-51               | CARBON      | 3.3    | 5%    | 1/2W  |
|          | (KV-30HS420 ONLY)          |             |        |       |       | R6513             | 1-245-478-31               | METAL       | 470K   | 1%    | 1/4W  |
| R5559    | 1-218-724-11               | METAL CHIP  | 22K    | 0.50% | 1/10W | R6514             | 1-245-477-31               | METAL       | 430K   | 1%    | 1/4W  |
|          | (ALL EXCEPT KV-30HS420)    |             |        |       |       | R6515             | 1-260-131-11               | CARBON      | 470K   | 5%    | 1/2W  |
| R5560    | 1-216-841-11               | METAL CHIP  | 47K    | 5%    | 1/10W | $\triangle$ R6516 | 1-244-207-11               | WIREWOUND   | 3.3    | 5%    | 10W   |
|          | (ALL EXCEPT KV-29DRC420LS) |             |        |       |       | R6517             | 1-218-714-11               | METAL CHIP  | 8.2K   | 0.50% | 1/10W |
| R5561    | 1-218-740-11               | METAL CHIP  | 100K   | 0.50% | 1/10W | R6518             | 1-218-719-11               | METAL CHIP  | 13K    | 0.50% | 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 |       |       |
|-------------------|--------------|-------------|--------|-------|-------|-------------------|--------------|---|--------|-------|-------|
| 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  | R8021             | 1-218-674-11 | METAL CHIP                                      | 180    | 0.50% | 1/10W |
| R6524             | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R6525             | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W | R8021             | 1-216-864-11 | SHORT CHIP                                      |        |       |       |
| R6526             | 1-202-933-61 | FUSIBLE     | 0.1    | 10%   | 1/2W  |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R6527             | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R8022             | 1-216-833-11 | METAL CHIP                                      | 10K    | 5%    | 1/10W |
| R6528             | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R8024             | 1-216-833-11 | METAL CHIP                                      | 10K    | 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  | 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 | R8029             | 1-218-736-11 | METAL CHIP                                      | 68K    | 0.50% | 1/10W |
| R6535             | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R8030             | 1-218-740-11 | METAL CHIP                                      | 100K   | 0.50% | 1/10W |
| R6536             | 1-249-417-11 | CARBON      | 1K     | 5%    | 1/4W  | R8031             | 1-218-740-11 | METAL CHIP                                      | 100K   | 0.50% | 1/10W |
| R6537             | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R8032             | 1-216-844-11 | METAL CHIP                                      | 82K    | 5%    | 1/10W |
| R6538             | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R8033             | 1-216-821-11 | METAL CHIP                                      | 1K     | 5%    | 1/10W |
| R6539             | 1-215-900-11 | METAL OXIDE | 22K    | 5%    | 2W    | $\triangle$ R8035 | 1-218-706-11 | METAL CHIP                                      | 3.9K   | 0.50% | 1/10W |
| R6542             | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | $\triangle$ R8036 | 1-215-415-00 | METAL   | 560    | 1%    | 1/4W  |
| R6544             | 1-216-864-11 | SHORT CHIP  |        |       |       |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R6545             | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | $\triangle$ R8036 | 1-215-419-00 | METAL   | 820    |       | 1/4W  |
| R6547             | 1-216-864-11 | SHORT CHIP  |        |       |       |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R6548             | 1-216-823-11 | METAL CHIP  | 1.5K   | 5%    | 1/10W | $\triangle$ R8037 | 1-215-445-00 | METAL   | 10K    | 1%    | 1/4W  |
| R6556             | 1-243-979-71 | METAL OXIDE | 0.1    | 5%    | 2W    |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R6557             | 1-243-979-71 | METAL OXIDE | 0.1    | 5%    | 2W    | $\triangle$ R8037 | 1-215-447-00 | METAL   | 12K    |       | 1/4W  |
| $\triangle$ R6590 | 1-249-415-11 | CARBON      | 680    | 5%    | 1/4W  |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R6593             | 1-249-405-11 | CARBON      | 100    | 5%    | 1/4W  | $\triangle$ R8038 | 1-215-445-00 | METAL   | 10K    | 1%    | 1/4W  |
| R6595             | 1-249-377-11 | CARBON      | 0.47   | 5%    | 1/4W  |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R6602             | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | $\triangle$ R8038 | 1-215-447-00 | METAL   | 12K    |       | 1/4W  |
| R6605             | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R8001             | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | $\triangle$ R8039 | 1-215-445-00 | METAL   | 10K    | 1%    | 1/4W  |
| R8003             | 1-216-837-11 | METAL CHIP  | 22K    | 5%    | 1/10W |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R8004             | 1-218-708-11 | METAL CHIP  | 4.7K   | 0.50% | 1/10W | $\triangle$ R8039 | 1-215-447-00 | METAL   | 12K    |       | 1/4W  |
| R8005             | 1-216-837-11 | METAL CHIP  | 22K    | 5%    | 1/10W |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R8006             | 1-245-494-31 | METAL       | 2.2M   | 2%    | 1/4W  | $\triangle$ R8039 | 1-215-447-00 | METAL   | 12K    |       | 1/4W  |
| R8007             | 1-245-494-31 | METAL       | 2.2M   | 2%    | 1/4W  |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R8010             | 1-216-864-11 | SHORT CHIP  |        |       |       | $\triangle$ R8040 | 1-215-443-00 | METAL   | 8.2K   |       | 1/4W  |
| R8011             | 1-216-849-11 | METAL CHIP  | 220K   | 5%    | 1/10W |                   |              | (KV-27HS420, 29DRC420LN, 30HS420 ONLY)          |        |       |       |
| R8012             | 1-249-419-11 | CARBON      | 1.5K   | 5%    | 1/4W  | $\triangle$ R8040 | 1-215-445-00 | METAL   | 10K    | 1%    | 1/4W  |
| R8013             | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |                   |              | (KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) |        |       |       |
| R8014             | 1-218-692-11 | METAL CHIP  | 1K     | 0.50% | 1/10W | R8041             | 1-216-864-11 | SHORT CHIP                                      |        |       |       |
| $\triangle$ R8015 | 1-218-700-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W | $\triangle$ R8043 | 1-215-447-00 | METAL   | 12K    | 1%    | 1/4W  |
| R8016             | 1-247-843-11 | CARBON      | 3.3K   | 5%    | 1/4W  | R8046             | 1-218-696-11 | METAL CHIP                                      | 1.5K   | 0.50% | 1/10W |
| $\triangle$ R8017 | 1-218-705-11 | METAL CHIP  | 3.6K   | 0.50% | 1/10W | R8049             | 1-218-668-11 | METAL CHIP                                      | 100    | 0.50% | 1/10W |
| $\triangle$ R8019 | 1-218-719-11 | METAL CHIP  | 13K    | 0.50% | 1/10W | R8050             | 1-218-656-11 | METAL CHIP                                      | 33     | 0.50% | 1/10W |
|                   |              |             |        |       |       | R8051             | 1-202-933-61 | FUSIBLE   | 0.1    | 10%   | 1/2W  |


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 spécifique.







| REF. NO.   | PART NO.     | DESCRIPTION  | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION  | VALUES |       |       |
|--|--------------|--|--------|-------|-------|----------|--------------|--|--------|-------|-------|
| R8052  | 1-218-732-11 | METAL CHIP<br>(KV-29DRC420LS ONLY)                   | 47K    |       | 1/10W | R8101    | 1-208-834-11 | METAL CHIP   | 150K   | 0.50% | 1/10W |
| R8052  | 1-218-741-11 | METAL CHIP<br>(KV-32HS420, 34HS420, 36HS420 ONLY)    | 110K   | 0.50% | 1/10W | R8102    | 1-249-433-11 | CARBON   | 22K    | 5%    | 1/4W  |
| R8052  | 1-218-745-11 | METAL CHIP<br>(KV-27HS420, 29DRC420LN, 30HS420 ONLY) | 160K   |       | 1/10W | R8103    | 1-218-867-11 | METAL CHIP   | 6.8K   | 0.50% | 1/10W |
| R8053  | 1-245-478-31 | METAL  | 470K   | 1%    | 1/4W  | R8104    | 1-216-841-11 | METAL CHIP   | 47K    | 5%    | 1/10W |
| R8054  | 1-245-478-31 | METAL  | 470K   | 1%    | 1/4W  | R8105    | 1-216-809-11 | METAL CHIP   | 100    | 5%    | 1/10W |
| R8056  | 1-218-714-11 | METAL CHIP   | 8.2K   | 0.50% | 1/10W | R8106    | 1-249-377-11 | CARBON   | 0.47   | 5%    | 1/4W  |
| R8057  | 1-218-719-11 | METAL CHIP   | 13K    | 0.50% | 1/10W | R8108    | 1-216-845-11 | METAL CHIP   | 100K   | 5%    | 1/10W |
| R8058  | 1-249-393-11 | CARBON   | 10     | 5%    | 1/4W  | R8109    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8059  | 1-216-813-11 | METAL CHIP   | 220    | 5%    | 1/10W | R8109    | 1-215-922-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 6.8K   | 5%    | 3W    |
| R8060  | 1-216-813-11 | METAL CHIP   | 220    | 5%    | 1/10W | R8109    | 1-216-486-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 8.2K   |       | 3W    |
| R8061  | 1-249-393-11 | CARBON   | 10     | 5%    | 1/4W  | R8110    | 1-208-842-11 | METAL CHIP   | 330K   | 0.50% | 1/10W |
| R8062  | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W | R8111    | 1-216-486-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 8.2K   |       | 3W    |
| R8063  | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W | R8111    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8066  | 1-216-821-11 | METAL CHIP   | 1K     | 5%    | 1/10W | R8111    | 1-215-922-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 6.8K   | 5%    | 3W    |
| R8069  | 1-249-425-11 | CARBON   | 4.7K   | 5%    | 1/4W  | R8112    | 1-216-845-11 | METAL CHIP   | 100K   | 5%    | 1/10W |
| R8070  | 1-243-979-71 | METAL OXIDE  | 0.1    | 5%    | 2W    | R8113    | 1-208-842-11 | METAL CHIP   | 330K   | 0.50% | 1/10W |
| R8072  | 1-249-377-11 | CARBON   | 0.47   | 5%    | 1/4W  | R8114    | 1-216-486-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 8.2K   |       | 3W    |
| R8076  | 1-249-409-11 | CARBON   | 220    | 5%    | 1/4W  | R8114    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8077  | 1-216-864-11 | SHORT CHIP   |        |       |       | R8114    | 1-215-922-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 6.8K   | 5%    | 3W    |
|  R8078 | 1-218-740-11 | METAL CHIP   | 100K   | 0.50% | 1/10W | R8115    | 1-216-821-11 | METAL CHIP   | 1K     | 5%    | 1/10W |
| R8079  | 1-249-431-11 | CARBON   | 15K    | 5%    | 1/4W  | R8116    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8080  | 1-249-393-11 | CARBON<br>(ALL EXCEPT KV-30HS420)                    | 10     | 5%    | 1/4W  | R8116    | 1-215-923-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 10K    |       | 3W    |
| R8080  | 1-249-401-11 | CARBON<br>(KV-30HS420 ONLY)                          | 47     | 5%    | 1/4W  | R8116    | 1-216-485-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 5.6K   | 5%    | 3W    |
| R8082  | 1-216-863-11 | METAL CHIP   | 3.3M   | 5%    | 1/10W | R8117    | 1-216-845-11 | METAL CHIP   | 100K   | 5%    | 1/10W |
| R8085  | 1-219-748-11 | METAL  | 4.7K   | 5%    | 1/2W  | R8118    | 1-216-839-11 | METAL CHIP   | 33K    | 5%    | 1/10W |
| R8086  | 1-219-749-91 | METAL  | 10K    | 5%    | 1/2W  | R8119    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8087  | 1-216-864-11 | SHORT CHIP   |        |       |       | R8119    | 1-215-923-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 10K    |       | 3W    |
| R8088  | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W | R8119    | 1-216-485-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 5.6K   | 5%    | 3W    |
| R8089  | 1-216-841-11 | METAL CHIP   | 47K    | 5%    | 1/10W | R8117    | 1-216-845-11 | METAL CHIP   | 100K   | 5%    | 1/10W |
| R8090  | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W | R8118    | 1-216-839-11 | METAL CHIP   | 33K    | 5%    | 1/10W |
| R8093  | 1-208-834-11 | METAL CHIP   | 150K   | 0.50% | 1/10W | R8119    | 1-218-918-00 | METAL OXIDE<br>(KV-30HS420 ONLY)                               | 1.5K   |       | 3W    |
| R8096  | 1-216-864-11 | SHORT CHIP   |        |       |       | R8119    | 1-215-923-00 | METAL OXIDE<br>(KV-27HS420, 29DRC420LN ONLY)                   | 10K    |       | 3W    |
| R8097  | 1-216-797-11 | METAL CHIP   | 10     | 5%    | 1/10W | R8119    | 1-216-485-11 | METAL OXIDE<br>(KV-32HS420, 34HS420, 36HS420, 29DRC420LS ONLY) | 5.6K   | 5%    | 3W    |
| R8098  | 1-249-441-11 | CARBON<br>(ALL EXCEPT KV-30HS420)                    | 100K   | 5%    | 1/4W  | R8123    | 1-216-809-11 | METAL CHIP   | 100    | 5%    | 1/10W |
| R8099  | 1-249-441-11 | CARBON<br>(ALL EXCEPT KV-30HS420)                    | 100K   | 5%    | 1/4W  |          |              |  |        |       |       |
| R8100  | 1-249-441-11 | CARBON<br>(ALL EXCEPT KV-30HS420)                    | 100K   | 5%    | 1/4W  |          |              |  |        |       |       |

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 spécifique.

**DZ UY**

| REF. NO.  | PART NO.     | DESCRIPTION  | VALUES |       |       | REF. NO.                  | PART NO.     | DESCRIPTION  | VALUES |        |      |
|---|--------------|--|--------|-------|-------|---------------------------|--------------|--------------|--------|--------|------|
| R8124   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8125   | 1-216-797-11 | METAL CHIP   | 10     | 5%    | 1/10W |                           |              |              |        |        |      |
| R8126   | 1-216-797-11 | METAL CHIP   | 10     | 5%    | 1/10W |                           |              |              |        |        |      |
| R8135   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8136   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8137   | 1-216-821-11 | METAL CHIP   | 1K     | 5%    | 1/10W |                           |              |              |        |        |      |
| R8138   | 1-216-857-11 | METAL CHIP   | 1M     | 5%    | 1/10W |                           |              |              |        |        |      |
| R8144   | 1-216-849-11 | METAL CHIP   | 220K   | 5%    | 1/10W |                           |              |              |        |        |      |
| R8145   | 1-216-841-11 | METAL CHIP   | 47K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8146   | 1-216-821-11 | METAL CHIP   | 1K     | 5%    | 1/10W |                           |              |              |        |        |      |
| R8150   | 1-216-841-11 | METAL CHIP   | 47K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8151   | 1-216-841-11 | METAL CHIP   | 47K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8158   | 1-216-809-11 | METAL CHIP   | 100    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8159   | 1-216-835-11 | METAL CHIP   | 15K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8160   | 1-216-853-11 | METAL CHIP   | 470K   | 5%    | 1/10W |                           |              |              |        |        |      |
| R8161   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
|  R8165    | 1-218-742-11 | METAL CHIP   | 120K   | 0.50% | 1/10W |                           |              |              |        |        |      |
| R8200   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8202   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8203   | 1-216-833-11 | METAL CHIP   | 10K    | 5%    | 1/10W |                           |              |              |        |        |      |
| R8204   | 1-216-825-11 | METAL CHIP   | 2.2K   | 5%    | 1/10W |                           |              |              |        |        |      |
| R8206   | 1-216-817-11 | METAL CHIP   | 470    | 5%    | 1/10W |                           |              |              |        |        |      |
| <b>RELAY</b>  |              |  |        |       |       |                           |              |              |        |        |      |
|  RY6501 | 1-755-395-11 | RELAY (AC POWER)   |        |       |       |                           |              |              |        |        |      |
|  RY6502 | 1-755-389-11 | RELAY (AC POWER)   |        |       |       |                           |              |              |        |        |      |
| <b>SPARK GAP</b>  |              |  |        |       |       |                           |              |              |        |        |      |
| SG8002  | 1-517-499-21 | GAP, SPARK   |        |       |       |                           |              |              |        |        |      |
| <b>TRANSFORMER</b>  |              |  |        |       |       |                           |              |              |        |        |      |
| T5001   | 1-437-669-21 | HORIZONTAL OUTPUT TRANSFORMER<br>(ALL EXCEPT KV-30HS420) |        |       |       |                           |              |              |        |        |      |
| T5002   | 1-435-636-21 | TRANSFORMER, HORIZONTAL DRIVE                            |        |       |       |                           |              |              |        |        |      |
| T6502   | 1-437-696-31 | TRANSFORMER, CONVERTER                                   |        |       |       |                           |              |              |        |        |      |
|  T8001  | 1-453-464-11 | FBT ASSY, NX-6200//X4J4                                  |        |       |       |                           |              |              |        |        |      |
| T8003   | 1-437-664-11 | TRANSFORMER, DYNAMIC FOCUS<br>(ALL EXCEPT KV-30HS420)    |        |       |       |                           |              |              |        |        |      |
| T8004   | 1-439-991-11 | TRANSFORMER, DYNAMIC FOCUS<br>(KV-30HS420 ONLY)          |        |       |       |                           |              |              |        |        |      |
|   |              |  |        |       |       | <b>THERMISTOR</b>         |              |              |        |        |      |
|   |              |  |        |       |       | TH5002                    | 1-807-796-11 | THERMISTOR   |        |        |      |
|   |              |  |        |       |       | <b>UY BOARD, COMPLETE</b> |              |              |        |        |      |
|   |              |  |        |       |       | <b>CAPACITOR</b>          |              |              |        |        |      |
|   |              |  |        |       |       | C1501                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1502                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1503                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1504                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1505                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1506                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1507                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1508                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1509                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1510                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1511                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1512                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1513                     | 1-126-960-11 | ELECT        | 1µF    | 20%    | 50V  |
|   |              |  |        |       |       | C1519                     | 1-162-913-11 | CERAMIC CHIP | 8pF    | 0.50pF | 50V  |
|   |              |  |        |       |       | C1520                     | 1-162-913-11 | CERAMIC CHIP | 8pF    | 0.50pF | 50V  |
|   |              |  |        |       |       | C1521                     | 1-125-837-91 | CERAMIC CHIP | 1µF    | 10%    | 6.3V |
|   |              |  |        |       |       | C1522                     | 1-125-837-91 | CERAMIC CHIP | 1µF    | 10%    | 6.3V |
|   |              |  |        |       |       | C1523                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1524                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1525                     | 1-164-156-11 | CERAMIC CHIP | 0.1µF  |        | 25V  |
|   |              |  |        |       |       | C1526                     | 1-126-964-11 | ELECT        | 10µF   | 20%    | 50V  |
|   |              |  |        |       |       | C1527                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1528                     | 1-126-933-11 | ELECT        | 100µF  | 20%    | 16V  |
|   |              |  |        |       |       | C1529                     | 1-109-982-11 | CERAMIC CHIP | 1µF    | 10%    | 10V  |
|   |              |  |        |       |       | C1530                     | 1-126-964-11 | ELECT        | 10µF   | 20%    | 50V  |
|   |              |  |        |       |       | C1531                     | 1-126-941-11 | ELECT        | 470µF  | 20%    | 25V  |
|   |              |  |        |       |       | C1532                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1533                     | 1-125-837-91 | CERAMIC CHIP | 1µF    | 10%    | 6.3V |
|   |              |  |        |       |       | C1534                     | 1-126-933-11 | ELECT        | 100µF  | 20%    | 16V  |
|   |              |  |        |       |       | C1535                     | 1-126-933-11 | ELECT        | 100µF  | 20%    | 16V  |
|   |              |  |        |       |       | C1536                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1537                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1538                     | 1-107-826-11 | CERAMIC CHIP | 0.1µF  | 10%    | 16V  |
|   |              |  |        |       |       | C1539                     | 1-164-156-11 | CERAMIC CHIP | 0.1µF  |        | 25V  |
|   |              |  |        |       |       | C1540                     | 1-126-933-11 | ELECT        | 100µF  | 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                    | D1518       | 8-719-914-43 | DIODE               | DAN202K  |
| C1545            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1519       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1546            | 1-164-156-11 | CERAMIC CHIP | 0.1μF 25V                       | D1520       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1548            | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V                   | D1521       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1550            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1522       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1551            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1523       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1552            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1524       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1553            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1525       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1554            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1526       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1555            | 1-126-960-11 | ELECT        | 1μF 20% 50V                     | D1527       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1556            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1528       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1557            | 1-164-156-11 | CERAMIC CHIP | 0.1μF 25V                       | D1529       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1558            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1530       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1559            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1531       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1560            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1532       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1561            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1533       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1562            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1534       | 8-719-977-28 | DIODE               | DTZ10B   |
| C1563            | 1-126-933-11 | ELECT        | 100μF 20% 16V                   | D1535       | 8-719-977-28 | DIODE               | DTZ10B   |
| <b>CONNECTOR</b> |              |              |                                 | <b>IC</b>   |              |                     |          |
| *                | CN1501       | 1-764-334-11 | PIN, CONNECTOR(PCB)(V TYPE) 11P | IC1502      | 8-752-080-04 | IC                  | CXA2069Q |
|                  | CN1502       | 1-793-173-11 | PIN, PC CONNECTOR(PC BOARD) 50P | IC1505      | 8-759-548-56 | IC                  | M52055FP |
|                  | CN1503       | 1-793-419-11 | CONNECTOR, BOARD TO BOARD 4P    | <b>JACK</b> |              |                     |          |
| <b>DIODE</b>     |              |              |                                 | J1501       | 1-573-967-12 | BLOCK, (S) TERMINAL |          |
| D1501            | 8-719-977-28 | DIODE        | DTZ10B                          | J1502       | 1-750-516-21 | JACK BLOCK, PIN     | 2P       |
| D1502            | 8-719-977-28 | DIODE        | DTZ10B                          | J1503       | 1-750-517-21 | JACK BLOCK, PIN     | 3P       |
| D1503            | 8-719-977-28 | DIODE        | DTZ10B                          | J1504       | 1-750-517-21 | JACK BLOCK, PIN     | 3P       |
| D1504            | 8-719-977-28 | DIODE        | DTZ10B                          | J1505       | 1-764-143-11 | JACK                |          |
| D1505            | 8-719-977-28 | DIODE        | DTZ10B                          | J1506       | 1-764-143-11 | JACK                |          |
| D1506            | 8-719-977-28 | DIODE        | DTZ10B                          | J1508       | 1-815-015-11 | JACK BLOCK, PIN     |          |
| D1507            | 8-719-977-28 | DIODE        | DTZ10B                          | J1509       | 1-815-015-11 | JACK BLOCK, PIN     |          |
| D1508            | 8-719-977-28 | DIODE        | DTZ10B                          | <b>COIL</b> |              |                     |          |
| D1509            | 8-719-977-28 | DIODE        | DTZ10B                          | L1502       | 1-469-555-21 | INDUCTOR            | 10μH     |
| D1510            | 8-719-977-28 | DIODE        | DTZ10B                          | L1503       | 1-469-555-21 | INDUCTOR            | 10μH     |
| D1511            | 8-719-977-28 | DIODE        | DTZ10B                          | L1504       | 1-469-555-21 | INDUCTOR            | 10μH     |
| D1512            | 8-719-977-28 | DIODE        | DTZ10B                          | L1505       | 1-469-555-21 | INDUCTOR            | 10μH     |
| D1513            | 8-719-977-28 | DIODE        | DTZ10B                          | L1506       | 1-469-555-21 | INDUCTOR            | 10μH     |
| 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         |
|--------------------------|--------------|-------------|----------------|----------|--------------|-------------|----------------|
| <b><u>TRANSISTOR</u></b> |              |             |                | R1523    | 1-216-824-11 | METAL CHIP  | 1.8K 5% 1/10W  |
| Q1501                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1524    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1502                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1525    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1503                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1526    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| Q1504                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1527    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| Q1505                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1530    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1506                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1531    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1507                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1532    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1508                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1533    | 1-216-825-11 | METAL CHIP  | 2.2K 5% 1/10W  |
| Q1509                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1534    | 1-216-833-11 | METAL CHIP  | 10K 5% 1/10W   |
| Q1510                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1535    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| Q1511                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1536    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| Q1512                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1537    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| Q1513                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1538    | 1-216-806-11 | METAL CHIP  | 56 5% 1/10W    |
| Q1515                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1539    | 1-216-805-11 | METAL CHIP  | 47 5% 1/10W    |
| Q1516                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1540    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1518                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1541    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1519                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1542    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| Q1520                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1543    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1521                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1544    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| Q1522                    | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R1545    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| Q1523                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1546    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| Q1524                    | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R1547    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| <b><u>RESISTOR</u></b>   |              |             |                | R1548    | 1-216-841-11 | METAL CHIP  | 47K 5% 1/10W   |
| R1501                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1549    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1502                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1550    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1503                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1551    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  |
| R1504                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1552    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| R1505                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1554    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1506                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1555    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  |
| R1507                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1556    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  |
| R1508                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1557    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| R1509                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1558    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
| R1510                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1559    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W |
| R1511                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1560    | 1-216-845-11 | METAL CHIP  | 100K 5% 1/10W  |
| R1512                    | 1-216-853-11 | METAL CHIP  | 470K 5% 1/10W  | R1562    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1513                    | 1-218-665-11 | METAL CHIP  | 75 0.50% 1/10W | R1563    | 1-216-830-11 | METAL CHIP  | 5.6K 5% 1/10W  |
| R1514                    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    | R1565    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1520                    | 1-216-825-11 | METAL CHIP  | 2.2K 5% 1/10W  | R1566    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
| R1521                    | 1-216-825-11 | METAL CHIP  | 2.2K 5% 1/10W  | R1567    | 1-216-833-11 | METAL CHIP  | 10K 5% 1/10W   |
| R1522                    | 1-216-824-11 | METAL CHIP  | 1.8K 5% 1/10W  | R1568    | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W    |
|                          |              |             |                | R1569    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
|                          |              |             |                | R1570    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |
|                          |              |             |                | R1571    | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W   |





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| REF. NO.   | PART NO.     | DESCRIPTION  | VALUES           | REF. NO.                | PART NO.     | DESCRIPTION  | VALUES           |
|--|--------------|--------------|------------------|-------------------------|--------------|--------------|------------------|
|  <p>* <b>A-1302-932-A AY BOARD, COMPLETE</b><br/>(KV-27HS420, 29DRC420LN ONLY)</p> <p>* <b>A-1302-935-A AY BOARD, COMPLETE</b><br/>(KV-30HS420 ONLY)</p> <p>*  <b>A-1302-941-A AY BOARD, COMPLETE</b><br/>(KV-32HS420, 34HS420 ONLY)</p> <p>* <b>A-1303-008-A AY BOARD, COMPLETE</b><br/>(KV-29DRC420LS ONLY)</p> <p>*  <b>A-1073-921-A AY BOARD, COMPLETE</b><br/>(KV-36HS420 ONLY)</p> <p>4-382-854-01 SCREW (M3X8), P, SW (+)</p> <p>4-382-854-21 SCREW (M3X14), P, SW (+)</p> <p><b>CAPACITOR</b></p> <p>C501 1-165-529-31 MYLAR 0.22µF 10 0V</p> <p>C502 1-127-798-51 CERAMIC 4700pF 20% 250V<br/>(KV-29DRC420LS ONLY)</p> <p> C503 1-165-529-31 MYLAR 0.22µF 10 0V<br/>(ALL EXCEPT KV-29DRC420LS)</p> <p> C503 1-165-530-21 MYLAR 0.47µF 10 0V<br/>(KV-29DRC420LS ONLY)</p> <p>C504 1-126-961-11 ELECT 2.2µF 20% 50V</p> <p>C505 1-127-794-51 CERAMIC 2200pF 20% 250V</p> <p>C506 1-126-971-11 ELECT 470µF 20% 50V</p> <p>C507 1-126-943-11 ELECT 2200µF 20% 25V</p> <p>C508 1-127-794-51 CERAMIC 2200pF 20% 250V</p> <p>C510 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V</p> <p> C512 1-165-529-31 MYLAR 0.22µF 10 0V<br/>(KV-29DRC420LS ONLY)</p> <p> C512 1-165-530-21 MYLAR 0.47µF 10 0V<br/>(ALL EXCEPT KV-29DRC420LS)</p> <p>C513 1-126-961-11 ELECT 2.2µF 20% 50V</p> <p>C514 1-126-960-11 ELECT 1µF 20% 50V</p> <p>C515 1-126-947-11 ELECT 47µF 20% 35V</p> <p>C518 1-126-967-11 ELECT 47µF 20% 50V</p> <p>C528 1-126-933-11 ELECT 100µF 20% 16V</p> <p>C530 1-126-941-11 ELECT 470µF 20% 25V</p> <p>C536 1-126-933-11 ELECT 100µF 20% 16V</p> <p>C537 1-126-941-11 ELECT 470µF 20% 25V</p> <p>C540 1-126-767-11 ELECT 1000µF 20% 16V</p> <p>C542 1-126-941-11 ELECT 470µF 20% 25V</p> |              |              |                  | C547                    | 1-126-767-11 | ELECT        | 1000µF 20% 16V   |
|  |              |              |                  | C548                    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
|  |              |              |                  | C549                    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
|  |              |              |                  | C550                    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
|  |              |              |                  | C551                    | 1-126-933-11 | ELECT        | 100µF 20% 16V    |
|  |              |              |                  | C553                    | 1-126-767-11 | ELECT        | 1000µF 20% 16V   |
| C554   | 1-126-933-11 | ELECT        | 100µF 20% 16V    |                         |              |              |                  |
| C555   | 1-126-933-11 | ELECT        | 100µF 20% 16V    |                         |              |              |                  |
| C556   | 1-126-767-11 | ELECT        | 1000µF 20% 16V   |                         |              |              |                  |
| C558   | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |                         |              |              |                  |
| C559   | 1-162-927-11 | CERAMIC CHIP | 100pF 5% 50V     |                         |              |              |                  |
| C560   | 1-126-935-11 | ELECT        | 470µF 20% 16V    |                         |              |              |                  |
| C561   | 1-162-970-11 | CERAMIC CHIP | 0.01µF 10% 25V   |                         |              |              |                  |
| C562   | 1-126-964-11 | ELECT        | 10µF 20% 50V     |                         |              |              |                  |
| C563   | 1-126-947-11 | ELECT        | 47µF 20% 35V     |                         |              |              |                  |
| C564   | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |                         |              |              |                  |
| C565   | 1-115-156-11 | CERAMIC CHIP | 1µF 10V          |                         |              |              |                  |
| C566   | 1-162-961-11 | CERAMIC CHIP | 330pF 10% 50V    |                         |              |              |                  |
| C567   | 1-165-176-11 | CERAMIC CHIP | 0.047µF 10% 16V  |                         |              |              |                  |
| C569   | 1-126-767-11 | ELECT        | 1000µF 20% 16V   |                         |              |              |                  |
| C574   | 1-126-960-11 | ELECT        | 1µF 20% 50V      |                         |              |              |                  |
| C577   | 1-126-960-11 | ELECT        | 1µF 20% 50V      |                         |              |              |                  |
| C578   | 1-126-964-11 | ELECT        | 10µF 20% 50V     |                         |              |              |                  |
| C579   | 1-126-957-11 | ELECT        | 0.22µF 20% 50V   |                         |              |              |                  |
| C580   | 1-126-957-11 | ELECT        | 0.22µF 20% 50V   |                         |              |              |                  |
| C583   | 1-136-161-00 | FILM         | 0.047µF 5% 50V   |                         |              |              |                  |
| C584   | 1-126-960-11 | ELECT        | 1µF 20% 50V      |                         |              |              |                  |
| C585   | 1-136-161-00 | FILM         | 0.047µF 5% 50V   |                         |              |              |                  |
| C591   | 1-126-935-11 | ELECT        | 470µF 20% 16V    |                         |              |              |                  |
| C593   | 1-126-935-11 | ELECT        | 470µF 20% 16V    |                         |              |              |                  |
| C595   | 1-104-666-11 | ELECT        | 220µF 20% 25V    |                         |              |              |                  |
| C597   | 1-162-964-11 | CERAMIC CHIP | 0.001µF 10% 50V  |                         |              |              |                  |
| C598   | 1-130-495-00 | MYLAR        | 0.1µF 5% 50V     |                         |              |              |                  |
| C599   | 1-126-953-11 | ELECT        | 2200µF 20% 35V   |                         |              |              |                  |
| C601   | 1-164-156-11 | CERAMIC CHIP | 0.1µF 25V        |                         |              |              |                  |
| C607   | 1-130-495-00 | MYLAR        | 0.1µF 5% 50V     |                         |              |              |                  |
| C611   | 1-130-495-00 | MYLAR        | 0.1µF 5% 50V     |                         |              |              |                  |
| C612   | 1-126-952-11 | ELECT        | 1000µF 20% 35V   |                         |              |              |                  |
| C613   | 1-126-952-11 | ELECT        | 1000µF 20% 35V   |                         |              |              |                  |
| C900   | 1-104-666-11 | ELECT        | 220µF 20% 25V    |                         |              |              |                  |
| C903   | 1-104-666-11 | ELECT        | 220µF 20% 25V    |                         |              |              |                  |
|  |              |              |                  | (ALL EXCEPT KV-30HS420) |              |              |                  |
| C909   | 1-136-177-00 | FILM         | 1µF 5% 50V       |                         |              |              |                  |
|  |              |              |                  | (ALL EXCEPT KV-30HS420) |              |              |                  |


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| REF. NO.  | PART NO.     | DESCRIPTION                             | VALUES   | REF. NO.  | PART NO.     | DESCRIPTION  | VALUES  |
|---|--------------|---|--|---|--------------|--------------|---|
| C912  | 1-136-177-00 | FILM<br>(ALL EXCEPT KV-30HS420)         | 1 $\mu$ F 5% 50V   | *   | CN527        | 1-564-511-61 | PLUG, CONNECTOR 8P                            |
| C915  | 1-162-959-11 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 330pF 5% 50V   | *   | CN900        | 1-779-892-11 | CONNECTOR, BOARD TO BOARD 10P                 |
| C918  | 1-162-968-11 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 0.0047 $\mu$ F 10% 50V   | *   | CN903        | 1-564-506-11 | PLUG, CONNECTOR 3P<br>(ALL EXCEPT KV-30HS420) |
| C921  | 1-164-677-11 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 0.033 $\mu$ F 10% 16V  | <b>DIODE</b>  |              |              |   |
| C924  | 1-164-677-11 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 0.033 $\mu$ F 10% 16V  | D501  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| C927  | 1-128-934-91 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 0.33 $\mu$ F 20% 10V   | D502  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| C930  | 1-164-388-91 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 270pF 5% 50V   | D503  | 8-719-511-40 | DIODE        | S1VB40  |
| C933  | 1-130-495-00 | MYLAR<br>(ALL EXCEPT KV-30HS420)        | 0.1 $\mu$ F 5% 50V   | D504  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| C939  | 1-126-933-11 | ELECT<br>(ALL EXCEPT KV-30HS420)        | 100 $\mu$ F 20% 16V  | D505  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| C942  | 1-162-927-11 | CERAMIC CHIP<br>(ALL EXCEPT KV-30HS420) | 100pF 5% 50V   | D508  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| C945  | 1-126-933-11 | ELECT<br>(ALL EXCEPT KV-30HS420)        | 100 $\mu$ F 20% 16V  | D509  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| <b>CONNECTOR</b>  |              |   |  | D510  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| CN501   | 1-695-915-11 | TAB (CONTACT)                           |  | D511  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *  | CN503        | 1-580-843-11                            | PIN, CONNECTOR (POWER)   | D512  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN504        | 1-766-241-11                            | PIN, CONNECTOR (PC BOARD) 3P<br>(ALL EXCEPT KV-27HS420, 29DRC420LN, 36HS420) | D513  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN505        | 1-766-241-11                            | PIN, CONNECTOR (PC BOARD) 3P   | D514  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN506        | 1-508-786-00                            | PIN, CONNECTOR (5MM PITCH) 2P  | D515  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN507        | 1-764-812-12                            | CONNECTOR, BOARD TO BOARD 11P  | D516  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN508        | 1-779-892-11                            | CONNECTOR, BOARD TO BOARD 10P  | D517  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN509        | 1-779-892-11                            | CONNECTOR, BOARD TO BOARD 10P  | D519  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   | CN510        | 1-793-494-11                            | CONNECTOR, BOARD TO BOARD 40P  | D520  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN514        | 1-766-240-11                            | PIN, CONNECTOR (PC BOARD) 2P   | D521  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   | CN515        | 1-695-915-11                            | TAB (CONTACT)  | D522  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   | CN516        | 1-695-915-11                            | TAB (CONTACT)  | D524  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   | CN517        | 1-695-915-11                            | TAB (CONTACT)  | D526  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   | CN518        | 1-695-915-11                            | TAB (CONTACT)  | D530  | 8-719-924-13 | DIODE        | MTZJ-T-77-22B                                 |
|   | CN519        | 1-695-915-11                            | TAB (CONTACT)  | D531  | 8-719-924-13 | DIODE        | MTZJ-T-77-22B                                 |
|   | CN520        | 1-695-915-11                            | TAB (CONTACT)  | D534  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN521        | 1-779-892-11                            | CONNECTOR, BOARD TO BOARD 10P  | D535  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN524        | 1-564-515-11                            | PLUG, CONNECTOR 12P  | D540  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
| *   | CN526        | 1-564-508-11                            | PLUG, CONNECTOR 5P   | D541  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   |              |   |  | D548  | 8-719-991-33 | DIODE        | 1SS133T-77                                    |
|   |              |   |  | D900  | 8-719-110-31 | DIODE        | RD12ESB2<br>(ALL EXCEPT KV-30HS420)           |
|   |              |   |  | D903  | 8-719-110-31 | DIODE        | RD12ESB2<br>(ALL EXCEPT KV-30HS420)           |
|   |              |   |  | <b>FUSE</b>   |              |              |   |
|   |              |   |  |  | F501         | 1-532-506-51 | FUSE 6.3A 250V                                |


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
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| REF. NO.              | PART NO.     | DESCRIPTION                           | VALUES     | REF. NO.   | PART NO.     | DESCRIPTION  | VALUES         |
|-----------------------|--------------|---------------------------------------|------------|--|--------------|--|----------------|
| <b>FERRITE BEAD</b>   |              |                                       |            |  |              |  |                |
| FB500                 | 1-412-911-11 | FERRITE<br>(ALL EXCEPT KV-29DRC420LS) | 0μH        |  L510 | 1-433-404-21 | TRANSFORMER, LINE FILTER<br>(ALL EXCEPT KV-29DRC420LS) |                |
| FB501                 | 1-412-911-11 | FERRITE<br>(KV-29DRC420LS ONLY)       | 0μH        |  L510 | 1-433-900-11 | TRANSFORMER, LINE FILTER<br>(KV-29DRC420LS ONLY)       |                |
| FB502                 | 1-412-911-11 | FERRITE                               | 0μH        |  L511 | 1-433-404-21 | TRANSFORMER, LINE FILTER                               |                |
| <b>FUSE HOLDER</b>    |              |                                       |            |  |              |  |                |
| FH501                 | 1-533-223-11 | FUSE HOLDER                           | 0A         | 0V   |              |  |                |
| FH502                 | 1-533-223-11 | FUSE HOLDER                           | 0A         | 0V   |              |  |                |
| <b>IC</b>             |              |                                       |            | <b>IC LINK</b>   |              |  |                |
| IC501                 | 8-759-450-47 | IC                                    | BA05T      | PS502  | 1-532-984-11 | IC LINK  | 2A 50V         |
| IC502                 | 8-759-520-49 | IC                                    | PQ30RV21   | <b>TRANSISTOR</b>  |              |  |                |
| IC504                 | 6-700-898-01 | IC                                    | PQ05RD21   | Q501   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| IC505                 | 8-759-653-07 | IC                                    | PQ09RD21   | Q502   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| IC508                 | 8-759-246-70 | IC                                    | TA8216H    | Q503   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| IC900                 | 8-749-016-08 | IC<br>(ALL EXCEPT KV-30HS420)         | STK390-910 | Q505   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| IC903                 | 8-759-595-52 | IC<br>(ALL EXCEPT KV-30HS420)         | CXA8070AP  | Q507   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| <b>CHIP CONDUCTOR</b> |              |                                       |            | Q508   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| JR501                 | 1-216-864-11 | SHORT CHIP                            |            | Q510   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| JR502                 | 1-216-864-11 | SHORT CHIP                            |            | Q511   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR509                 | 1-216-864-11 | SHORT CHIP                            |            | Q512   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| JR510                 | 1-216-864-11 | SHORT CHIP                            |            | Q513   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR511                 | 1-216-864-11 | SHORT CHIP                            |            | Q514   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| JR512                 | 1-216-864-11 | SHORT CHIP                            |            | Q517   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR513                 | 1-216-864-11 | SHORT CHIP                            |            | Q518   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR514                 | 1-216-864-11 | SHORT CHIP                            |            | Q519   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR515                 | 1-216-864-11 | SHORT CHIP                            |            | Q524   | 8-729-422-27 | TRANSISTOR   | 2SD601A-Q      |
| JR516                 | 1-216-864-11 | SHORT CHIP                            |            | Q527   | 8-729-424-02 | TRANSISTOR   | 2SB709A-QRS-TX |
| <b>COIL</b>           |              |                                       |            | <b>RESISTOR</b>  |              |  |                |
| L502                  | 1-412-525-31 | INDUCTOR                              | 10μH       | R501   | 1-216-864-11 | SHORT CHIP   |                |
| L505                  | 1-469-320-21 | INDUCTOR                              | 100μH      | R502   | 1-244-207-11 | RES, WIREWOUND<br>(KV-29DRC420LS ONLY)                 | 3.3 5% 10W     |
| L506                  | 1-469-320-21 | INDUCTOR                              | 100μH      | R503   | 1-244-207-11 | RES, WIREWOUND<br>(KV-29DRC420LS ONLY)                 | 3.3 5% 10W     |
| L507                  | 1-469-317-21 | INDUCTOR                              | 10μH       | R504   | 1-216-833-11 | METAL CHIP   | 10K 5% 1/10W   |
| L508                  | 1-412-529-11 | INDUCTOR                              | 22μH       | R505   | 1-216-833-11 | METAL CHIP   | 10K 5% 1/10W   |
|                       |              |                                       |            | R506   | 1-216-857-11 | METAL CHIP   | 1M 5% 1/10W    |
|                       |              |                                       |            | R507   | 1-247-895-91 | CARBON   | 470K 5% 1/4W   |
|                       |              |                                       |            | R508   | 1-218-265-11 | METAL<br>(KV-29DRC420LS ONLY)                          | 8.2M 5% 1W     |





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| REF. NO.  | PART NO.     | DESCRIPTION                            | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION                            | VALUES |    |       |
|---|--------------|--|--------|-------|-------|----------|--------------|--|--------|----|-------|
| R508  | 1-219-512-11 | METAL<br>(ALL EXCEPT KV-29DRC420LS)    | 2.2M   | 5%    | 1/2W  | R565     | 1-216-821-11 | METAL CHIP                             | 1K     | 5% | 1/10W |
|  R509 | 1-244-268-11 | CEMENTED<br>(KV-29DRC420LS ONLY)       | 1      | 5%    | 20W   | R570     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
|  R509 | 1-244-270-11 | CEMENTED<br>(ALL EXCEPT KV-29DRC420LS) | 0.47   | 5%    | 20W   | R572     | 1-216-809-11 | METAL CHIP                             | 100    | 5% | 1/10W |
|  R510 | 1-244-268-11 | CEMENTED<br>(KV-29DRC420LS ONLY)       | 1      | 5%    | 20W   | R573     | 1-216-847-11 | METAL CHIP                             | 150K   | 5% | 1/10W |
|  R510 | 1-244-270-11 | CEMENTED<br>(ALL EXCEPT KV-29DRC420LS) | 0.47   | 5%    | 20W   | R574     | 1-216-809-11 | METAL CHIP                             | 100    | 5% | 1/10W |
| R511  | 1-216-849-11 | METAL CHIP                             | 220K   | 5%    | 1/10W | R577     | 1-216-821-11 | METAL CHIP                             | 1K     | 5% | 1/10W |
| R512  | 1-216-849-11 | METAL CHIP                             | 220K   | 5%    | 1/10W | R579     | 1-216-821-11 | METAL CHIP                             | 1K     | 5% | 1/10W |
| R513  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R581     | 1-216-864-11 | SHORT CHIP                             |        |    |       |
| R515  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R582     | 1-216-864-11 | SHORT CHIP                             |        |    |       |
| R516  | 1-216-857-11 | METAL CHIP                             | 1M     | 5%    | 1/10W | R585     | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5% | 1/10W |
| R524  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R586     | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5% | 1/10W |
| R527  | 1-216-341-11 | METAL OXIDE                            | 0.22   | 5%    | 1W    | R588     | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5% | 1/10W |
| R531  | 1-216-821-11 | METAL CHIP                             | 1K     | 5%    | 1/10W | R589     | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5% | 1/10W |
| R532  | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5%    | 1/10W | R591     | 1-216-821-11 | METAL CHIP                             | 1K     | 5% | 1/10W |
| R533  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R595     | 1-216-813-11 | METAL CHIP                             | 220    | 5% | 1/10W |
| R534  | 1-218-716-11 | METAL CHIP                             | 10K    | 0.50% | 1/10W | R596     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R535  | 1-218-722-11 | METAL CHIP                             | 18K    | 0.50% | 1/10W | R598     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R536  | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W | R599     | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5% | 1/10W |
| R537  | 1-218-750-11 | METAL CHIP                             | 270K   | 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 | R606     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R544  | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W | R607     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R545  | 1-216-805-11 | METAL CHIP                             | 47     | 5%    | 1/10W | R610     | 1-216-821-11 | METAL CHIP                             | 1K     | 5% | 1/10W |
| R546  | 1-216-805-11 | METAL CHIP                             | 47     | 5%    | 1/10W | R611     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R547  | 1-216-827-11 | METAL CHIP                             | 3.3K   | 5%    | 1/10W | R617     | 1-249-385-11 | CARBON                                 | 2.2    | 5% | 1/4W  |
| R548  | 1-216-829-11 | METAL CHIP                             | 4.7K   | 5%    | 1/10W | R622     | 1-249-385-11 | CARBON                                 | 2.2    | 5% | 1/4W  |
| R550  | 1-216-845-11 | METAL CHIP                             | 100K   | 5%    | 1/10W | R631     | 1-249-429-11 | CARBON                                 | 10K    | 5% | 1/4W  |
| R551  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R632     | 1-249-429-11 | CARBON                                 | 10K    | 5% | 1/4W  |
| R552  | 1-216-837-11 | METAL CHIP                             | 22K    | 5%    | 1/10W | R635     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R553  | 1-216-821-11 | METAL CHIP                             | 1K     | 5%    | 1/10W | R636     | 1-216-833-11 | METAL CHIP                             | 10K    | 5% | 1/10W |
| R554  | 1-216-864-11 | SHORT CHIP                             |        |       |       | R643     | 1-216-864-11 | SHORT CHIP                             |        |    |       |
| R555  | 1-216-833-11 | METAL CHIP                             | 10K    | 5%    | 1/10W | R646     | 1-216-864-11 | SHORT CHIP                             |        |    |       |
| R556  | 1-216-839-11 | METAL CHIP                             | 33K    | 5%    | 1/10W | R900     | 1-216-864-11 | SHORT CHIP<br>(ALL EXCEPT KV-30HS420)  |        |    |       |
| R557  | 1-216-821-11 | METAL CHIP                             | 1K     | 5%    | 1/10W | R903     | 1-260-288-11 | CARBON<br>(ALL EXCEPT KV-30HS420)      | 0.47   | 5% | 1/2W  |
| R558  | 1-216-857-11 | METAL CHIP                             | 1M     | 5%    | 1/10W | R906     | 1-260-288-11 | CARBON<br>(ALL EXCEPT KV-30HS420)      | 0.47   | 5% | 1/2W  |
| R559  | 1-216-847-11 | METAL CHIP                             | 150K   | 5%    | 1/10W | R909     | 1-216-843-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)  | 68K    | 5% | 1/10W |
| R560  | 1-216-825-11 | METAL CHIP                             | 2.2K   | 5%    | 1/10W | R912     | 1-216-381-11 | METAL OXIDE<br>(ALL EXCEPT KV-30HS420) | 0.22   | 5% | 3W    |
| R563  | 1-216-823-11 | METAL CHIP                             | 1.5K   | 5%    | 1/10W |          |              |  |        |    |       |

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

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



| REF. NO.   | PART NO.     | DESCRIPTION  | VALUES                         |                                |       | REF. NO.  | PART NO. | DESCRIPTION  | VALUES   |  |  |
|--|--------------|--|--------------------------------|--------------------------------|-------|---|----------|--------------|--|--|--|
| R915   | 1-215-886-11 | METAL OXIDE<br>(ALL EXCEPT KV-30HS420)             | 100                            | 5%                             | 2W    |   |          |              |  |  |  |
| R918   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |  | TH501    | 1-803-540-11 | THERMISTOR, POSITIVE<br>(KV-29DRC420LS ONLY)       |  |  |
| R920   | 1-216-864-11 | SHORT CHIP<br>(ALL EXCEPT KV-30HS420)              |                                |                                |       |  | TH501    | 1-803-970-11 | THERMISTOR, POSITIVE<br>(ALL EXCEPT KV-29DRC420LS) |  |  |
| R921   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |   |          |              |  |  |  |
| R927   | 1-218-696-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 1.5K                           | 0.50%                          | 1/10W |   |          |              |  |  |  |
| R930   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |   |          |              |  |  |  |
| R933   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |  | VD501    | 1-804-992-21 | VARISTOR<br>(ALL EXCEPT KV-29DRC420LS)             |  |  |
| R939   | 1-216-805-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 47                             | 5%                             | 1/10W |  | VD501    | 1-804-995-11 | VARISTOR<br>(KV-29DRC420LS ONLY)                   |  |  |
| R942   | 1-216-429-00 | METAL OXIDE<br>(ALL EXCEPT KV-30HS420)             | 270                            | 5%                             | 1W    |   |          |              |  |  |  |
| R945   | 1-216-805-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 47                             | 5%                             | 1/10W |   |          |              |  |  |  |
| R948   | 1-216-845-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 100K                           | 5%                             | 1/10W |   |          |              |  |  |  |
| R949   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |   |          |              |  |  |  |
| R950   | 1-218-708-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 4.7K                           | 0.50%                          | 1/10W |   |          |              |  |  |  |
| R951   | 1-216-845-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 100K                           | 5%                             | 1/10W |   |          |              |  |  |  |
| R954   | 1-216-821-11 | METAL CHIP<br>(ALL EXCEPT KV-30HS420)              | 1K                             | 5%                             | 1/10W |   |          |              |  |  |  |
|  |              | <b>RELAY</b>                                       |                                |                                |       |   |          |              |  |  |  |
|  | RY501        | 1-755-389-11                                       | RELAY (AC POWER)               |                                |       |   |          |              |  |  |  |
|  |              | <b>TRANSFORMER</b>                                 |                                |                                |       |   |          |              |  |  |  |
| T502   | 1-437-697-11 | TRANSFORMER, STANDBY<br>(ALL EXCEPT KV-29DRC420LS) |                                |                                |       |   |          |              |  |  |  |
| T502   | 1-437-742-11 | TRANSFORMER, STANDBY<br>(KV-29DRC420LS ONLY)       |                                |                                |       |   |          |              |  |  |  |
|  |              | <b>THERMISTOR</b>                                  |                                |                                |       |   |          |              |  |  |  |
|  |              | <b>TUNER</b>                                       |                                |                                |       |   |          |              |  |  |  |
|  | TU502        | 8-598-593-40                                       | TUNER, FSS BTF-WA421           |                                |       |   |          |              |  |  |  |
|  |              | <b>VARISTOR</b>                                    |                                |                                |       |   |          |              |  |  |  |
|  |              | <b>HBXY</b>  |                                |                                |       |   |          |              |  |  |  |
|  | *            | A-1302-942-A                                       | HBXY BOARD, COMPLETE           |                                |       |   |          |              |  |  |  |
|  |              | <b>CAPACITOR</b>                                   |                                |                                |       |   |          |              |  |  |  |
|  | C1100        | 1-126-960-11                                       | ELECT                          | 1μF                            | 20%   | 50V   |          |              |  |  |  |
|  | C1101        | 1-126-960-11                                       | ELECT                          | 1μF                            | 20%   | 50V   |          |              |  |  |  |
|  |              | <b>CONNECTOR</b>                                   |                                |                                |       |   |          |              |  |  |  |
|  | *            | CN1100   | 1-764-334-11                   | PIN, CONNECTOR(PCB)(V TYPE)11P |       |   |          |              |  |  |  |
|  |              | <b>DIODE</b>                                       |                                |                                |       |   |          |              |  |  |  |
|  | D1100        | 8-719-977-28                                       | DIODE                          | DTZ10B                         |       |   |          |              |  |  |  |
|  | D1101        | 8-719-977-28                                       | DIODE                          | DTZ10B                         |       |   |          |              |  |  |  |
|  | D1103        | 8-719-977-28                                       | DIODE                          | DTZ10B                         |       |   |          |              |  |  |  |
|  |              | <b>FILTER</b>                                      |                                |                                |       |   |          |              |  |  |  |
|  | FL1103       | 1-409-755-11                                       | FERRITE                        | 0μH                            |       |   |          |              |  |  |  |
|  | FL1104       | 1-409-755-11                                       | FERRITE                        | 0μH                            |       |   |          |              |  |  |  |
|  |              | <b>JACK</b>  |                                |                                |       |   |          |              |  |  |  |
|  | J1100        | 1-770-053-12                                       | TERMINAL BLOCK, S(LIGHT ANGLE) |                                |       |   |          |              |  |  |  |

|     |     |    |
|-----|-----|----|
| HBY | HCX | CH |
|-----|-----|----|

| REF. NO.                                  | PART NO.     | DESCRIPTION        | VALUES      |       |  | REF. NO.                                | PART NO.     | DESCRIPTION     | VALUES     |        |      |
|---|--------------|--------------------|-------------|-------|--|---|--------------|-----------------|------------|--------|------|
| <b>CHIP CONDUCTOR</b>                     |              |                    |             |       | <b>IC</b>  |   |              |                 |            |        |      |
| JR1100                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | IC1051                                  | 8-742-212-20 | HYB IC          | SBX3081-71 |        |      |
| JR1101                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | <b>RESISTOR</b>                         |              |                 |            |        |      |
| JR1102                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | R1052                                   | 1-249-409-11 | CARBON          | 220        | 5%     | 1/4W |
| JR1103                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | R1053                                   | 1-249-409-11 | CARBON          | 220        | 5%     | 1/4W |
| JR1104                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | R1054                                   | 1-249-433-11 | CARBON          | 22K        | 5%     | 1/4W |
| JR1105                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | R1055                                   | 1-249-385-11 | CARBON          | 2.2        | 5%     | 1/4W |
| JR1106                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | <b>SWITCH</b>                           |              |                 |            |        |      |
| JR1107                                    | 1-216-864-11 | SHORT CHIP         |             |       |  | S1052                                   | 1-692-431-21 | SWITCH, TACTILE |            |        |      |
| <b>RESISTOR</b>                           |              |                    |             |       | <b>CH</b>  |   |              |                 |            |        |      |
| R1100                                     | 1-216-853-11 | METAL CHIP         | 470K        | 5%    | 1/10W  | <b>* A-1400-550-A CH BOARD, MOUNTED</b> |              |                 |            |        |      |
| R1101                                     | 1-216-853-11 | METAL CHIP         | 470K        | 5%    | 1/10W  | 7-682-647-09 SCREW +PS 3X6              |              |                 |            |        |      |
| R1102                                     | 1-218-665-11 | METAL CHIP         | 75          | 0.50% | 1/10W  | <b>CAPACITOR</b>                        |              |                 |            |        |      |
| R1103                                     | 1-218-665-11 | METAL CHIP         | 75          | 0.50% | 1/10W  | C9002                                   | 1-163-087-00 | CERAMIC CHIP    | 4pF        | 0.25pF | 50V  |
| R1104                                     | 1-216-864-11 | SHORT CHIP         |             |       |  | C9003                                   | 1-163-087-00 | CERAMIC CHIP    | 4pF        | 0.25pF | 50V  |
| R1105                                     | 1-216-864-11 | SHORT CHIP         |             |       |  | C9004                                   | 1-115-350-51 | CERAMIC         | 0.0047μF   | 2KV    |      |
| R1106                                     | 1-216-821-11 | METAL CHIP         | 1K          | 5%    | 1/10W  | C9005                                   | 1-163-087-00 | CERAMIC CHIP    | 4pF        | 0.25pF | 50V  |
| R1107                                     | 1-218-665-11 | METAL CHIP         | 75          | 0.50% | 1/10W  | C9009                                   | 1-163-227-11 | CERAMIC CHIP    | 10pF       | 0.50pF | 50V  |
| R1108                                     | 1-216-864-11 | SHORT CHIP         |             |       |  | C9010                                   | 1-163-227-11 | CERAMIC CHIP    | 10pF       | 0.50pF | 50V  |
| <b>VARISTOR</b>                           |              |                    |             |       | <b>* A-1302-943-A HCX BOARD, COMPLETE</b>        |   |              |                 |            |        |      |
| VD1102                                    | 1-803-974-21 | VARISTOR, CHIP     | (1608)      |       |  | C9011                                   | 1-161-830-00 | CERAMIC         | 0.0047μF   | 500V   |      |
| <b>HCX</b>                                |              |                    |             |       | <b>CAPACITOR</b>                                 |   |              |                 |            |        |      |
| <b>* A-1302-943-A HCX BOARD, COMPLETE</b> |              |                    |             |       | C9012 1-161-830-00 CERAMIC 0.0047μF 500V         |   |              |                 |            |        |      |
| <b>CAPACITOR</b>                          |              |                    |             |       | C9013 1-163-035-00 CERAMIC CHIP 0.047μF 50V      |   |              |                 |            |        |      |
| C1051                                     | 1-126-964-11 | ELECT              | 10μF        | 20%   | 50V  | C9014                                   | 1-161-830-00 | CERAMIC         | 0.0047μF   | 500V   |      |
| <b>CONNECTOR</b>                          |              |                    |             |       | C9015 1-163-227-11 CERAMIC CHIP 10pF 0.50pF 50V  |   |              |                 |            |        |      |
| * CN1052                                  | 1-564-509-11 | PLUG, CONNECTOR 6P |             |       |  | C9018                                   | 1-107-961-91 | ELECT           | 10μF       | 20%    | 250V |
| <b>DIODE</b>                              |              |                    |             |       | C9019 1-163-035-00 CERAMIC CHIP 0.047μF 50V      |   |              |                 |            |        |      |
| D1051                                     | 8-719-070-80 | DIODE              | LNK0120022G |       |  | C9020                                   | 1-107-961-91 | ELECT           | 10μF       | 20%    | 250V |
| D1052                                     | 8-719-070-80 | DIODE              | LNK0120022G |       |  | C9021                                   | 1-107-961-91 | ELECT           | 10μF       | 20%    | 250V |
|   |              |                    |             |       | C9022 1-101-004-00 CERAMIC 0.01μF 50V            |   |              |                 |            |        |      |
|   |              |                    |             |       | C9023 1-101-004-00 CERAMIC 0.01μF 50V            |   |              |                 |            |        |      |
|   |              |                    |             |       | C9024 1-163-035-00 CERAMIC CHIP 0.047μF 50V      |   |              |                 |            |        |      |
|   |              |                    |             |       | C9025 1-104-653-11 ELECT 220μF 20% 16V           |   |              |                 |            |        |      |
|   |              |                    |             |       | C9026 1-163-035-00 CERAMIC CHIP 0.047μF 50V      |   |              |                 |            |        |      |
|   |              |                    |             |       | C9027 1-101-004-00 CERAMIC 0.01μF 50V            |   |              |                 |            |        |      |
|   |              |                    |             |       | C9028 1-163-017-00 CERAMIC CHIP 0.0047μF 10% 50V |   |              |                 |            |        |      |

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 triangle et une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.



| REF. NO.          | PART NO.     | DESCRIPTION                 | VALUES                 | REF. NO.          | PART NO.     | DESCRIPTION | VALUES           |
|-------------------|--------------|-----------------------------|------------------------|-------------------|--------------|-------------|------------------|
| C9029             | 1-163-017-00 | CERAMIC CHIP                | 0.0047 $\mu$ F 10% 50V | <b>TRANSISTOR</b> |              |             |                  |
| C9030             | 1-163-017-00 | CERAMIC CHIP                | 0.0047 $\mu$ F 10% 50V | Q9001             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX   |
| C9031             | 1-115-350-51 | CERAMIC                     | 0.0047 $\mu$ F 2KV     | Q9003             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q        |
| C9032             | 1-162-116-00 | CERAMIC                     | 680pF 10% 2KV          | Q9004             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q        |
| C9033             | 1-107-662-11 | ELECT                       | 22 $\mu$ F 20% 350V    | Q9005             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q        |
| C9036             | 1-115-339-11 | CERAMIC CHIP                | 0.1 $\mu$ F 10% 50V    | Q9009             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX   |
| C9042             | 1-126-940-11 | ELECT                       | 330 $\mu$ F 20% 25V    | Q9010             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX   |
| C9046             | 1-126-933-11 | ELECT                       | 100 $\mu$ F 20% 16V    | Q9011             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX   |
| <b>CONNECTOR</b>  |              |                             |                        | Q9014             | 8-729-823-81 | TRANSISTOR  | 2SC4632LS-CB7    |
| * CN9001          | 1-764-334-11 | PIN, CONNECTOR(PCB)(V TYPE) | 11P                    | <b>RESISTOR</b>   |              |             |                  |
| * CN9002          | 1-564-507-11 | PLUG, CONNECTOR             | 4P                     | R9001             | 1-216-041-00 | RES-CHIP    | 470 5% 1/10W     |
| CN9003            | 1-695-915-11 | TAB (CONTACT)               |                        | R9006             | 1-216-073-91 | RES-CHIP    | 10K 5% 1/10W     |
| CN9004            | 1-695-915-11 | TAB (CONTACT)               |                        | R9007             | 1-208-789-11 | METAL CHIP  | 2K 0.50% 1/10W   |
| CN9005            | 1-695-915-11 | TAB (CONTACT)               |                        | R9008             | 1-216-085-91 | RES-CHIP    | 33K 5% 1/10W     |
| CN9009            | 1-785-879-11 | CONNECTOR, ONE TOUCH        |                        | R9012             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
| <b>DIODE</b>      |              |                             |                        | R9013             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
| D9002             | 8-719-977-28 | DIODE                       | DTZ10B                 | R9014             | 1-216-033-00 | RES-CHIP    | 220 5% 1/10W     |
| D9005             | 8-719-404-50 | DIODE                       | MA111-TX               | R9015             | 1-249-409-11 | CARBON      | 220 5% 1/4W      |
| D9006             | 8-719-051-85 | DIODE                       | HSS83TD                | R9016             | 1-216-033-00 | RES-CHIP    | 220 5% 1/10W     |
| D9007             | 8-719-051-85 | DIODE                       | HSS83TD                | R9018             | 1-216-041-00 | RES-CHIP    | 470 5% 1/10W     |
| D9008             | 8-719-051-85 | DIODE                       | HSS83TD                | R9019             | 1-216-041-00 | RES-CHIP    | 470 5% 1/10W     |
| D9009             | 8-719-908-03 | DIODE                       | GP08D                  | R9026             | 1-208-789-11 | METAL CHIP  | 2K 0.50% 1/10W   |
| D9010             | 8-719-110-17 | DIODE                       | RD10ESB2               | R9031             | 1-208-789-11 | METAL CHIP  | 2K 0.50% 1/10W   |
| <b>IC</b>         |              |                             |                        | R9033             | 1-215-447-00 | METAL       | 12K 1% 1/4W      |
| IC9001            | 8-759-360-83 | IC                          | TDA6111Q/N4            | R9034             | 1-215-439-00 | METAL       | 5.6K 1% 1/4W     |
| IC9002            | 8-759-360-83 | IC                          | TDA6111Q/N4            | R9035             | 1-208-790-11 | METAL CHIP  | 2.2K 0.50% 1/10W |
| IC9003            | 8-759-360-83 | IC                          | TDA6111Q/N4            | R9036             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
| <b>JACK</b>       |              |                             |                        | R9037             | 1-240-233-71 | METAL OXIDE | 100 5% 3W        |
| $\triangle$ J9001 | 1-451-544-11 | SOCKET, CRT                 |                        | R9038             | 1-208-790-11 | METAL CHIP  | 2.2K 0.50% 1/10W |
| <b>COIL</b>       |              |                             |                        | R9039             | 1-208-790-11 | METAL CHIP  | 2.2K 0.50% 1/10W |
| L9002             | 1-408-591-11 | INDUCTOR                    | 1 $\mu$ H              | R9041             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
| L9003             | 1-408-591-11 | INDUCTOR                    | 1 $\mu$ H              | R9042             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
| L9004             | 1-408-591-11 | INDUCTOR                    | 1 $\mu$ H              | R9043             | 1-240-233-71 | METAL OXIDE | 100 5% 3W        |
| L9005             | 1-406-666-21 | INDUCTOR                    | 150 $\mu$ H            | R9044             | 1-240-233-71 | METAL OXIDE | 100 5% 3W        |
| L9006             | 1-412-525-31 | INDUCTOR                    | 10 $\mu$ H             | R9047             | 1-219-744-11 | METAL       | 220 5% 1/2W      |
|                   |              |                             |                        | R9048             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
|                   |              |                             |                        | R9049             | 1-216-049-11 | RES-CHIP    | 1K 5% 1/10W      |
|                   |              |                             |                        | R9050             | 1-249-424-11 | CARBON      | 3.9K 5% 1/4W     |
|                   |              |                             |                        | R9051             | 1-219-744-11 | METAL       | 220 5% 1/2W      |
|                   |              |                             |                        | R9052             | 1-219-744-11 | METAL       | 220 5% 1/2W      |









| REF. NO. | PART NO.     | DESCRIPTION                           | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION  | VALUES   |     |      |
|----------|--------------|---------------------------------------|--------|-------|-------|----------|--------------|--------------|----------|-----|------|
| R9135    | 1-218-692-11 | METAL CHIP                            | 1K     | 0.50% | 1/10W | C2823    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
| R9138    | 1-218-712-11 | METAL CHIP                            | 6.8K   | 0.50% | 1/10W | C2824    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
| R9139    | 1-218-692-11 | METAL CHIP                            | 1K     | 0.50% | 1/10W | C2825    | 1-162-964-11 | CERAMIC CHIP | 0.001µF  | 10% | 50V  |
| R9140    | 1-216-864-11 | SHORT CHIP<br>(ALL EXCEPT KV-30HS420) |        |       |       | C2826    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
| R9141    | 1-214-657-11 | METAL                                 | 1      | 1%    | 1/4W  | C2827    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
| R9142    | 1-214-657-11 | METAL                                 | 1      | 1%    | 1/4W  | C2828    | 1-110-563-11 | CERAMIC CHIP | 0.068µF  | 10% | 16V  |
| R9143    | 1-216-429-00 | METAL OXIDE                           | 270    | 5%    | 1W    | C2829    | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V  |
| R9144    | 1-215-867-00 | METAL OXIDE                           | 470    | 5%    | 1W    | C2830    | 1-128-996-11 | ELECT CHIP   | 4.7µF    | 20% | 50V  |
| R9145    | 1-218-712-11 | METAL CHIP                            | 6.8K   | 0.50% | 1/10W | C2831    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
| R9150    | 1-218-712-11 | METAL CHIP                            | 6.8K   | 0.50% | 1/10W | C2833    | 1-127-715-91 | CERAMIC CHIP | 0.22µF   | 10% | 16V  |
| R9187    | 1-249-389-11 | CARBON                                | 4.7    | 5%    | 1/4W  | C2834    | 1-125-891-11 | CERAMIC CHIP | 0.47µF   | 10% | 10V  |
| R9188    | 1-249-389-11 | CARBON                                | 4.7    | 5%    | 1/4W  | C2835    | 1-162-970-11 | CERAMIC CHIP | 0.01µF   | 10% | 25V  |
| R9189    | 1-249-389-11 | CARBON                                | 4.7    | 5%    | 1/4W  | C2836    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
| R9190    | 1-249-389-11 | CARBON                                | 4.7    | 5%    | 1/4W  | C2837    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
|          |              |                                       |        |       |       | C2840    | 1-107-826-11 | CERAMIC CHIP | 0.1µF    | 10% | 16V  |
|          |              |                                       |        |       |       | C2841    | 1-107-826-11 | CERAMIC CHIP | 0.1µF    | 10% | 16V  |
|          |              |                                       |        |       |       | C2842    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
|          |              |                                       |        |       |       | C2843    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C2844    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
|          |              |                                       |        |       |       | C2845    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
|          |              |                                       |        |       |       | C2846    | 1-107-826-11 | CERAMIC CHIP | 0.1µF    | 10% | 16V  |
|          |              |                                       |        |       |       | C2847    | 1-127-715-91 | CERAMIC CHIP | 0.22µF   | 10% | 16V  |
|          |              |                                       |        |       |       | C2849    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V  |
|          |              |                                       |        |       |       | C2850    | 1-117-681-11 | ELECT CHIP   | 100µF    | 20% | 16V  |
|          |              |                                       |        |       |       | C2851    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3001    | 1-128-453-21 | ELECT CHIP   | 47µF     | 20% | 6.3V |
|          |              |                                       |        |       |       | C3002    | 1-128-453-21 | ELECT CHIP   | 47µF     | 20% | 6.3V |
|          |              |                                       |        |       |       | C3003    | 1-128-453-21 | ELECT CHIP   | 47µF     | 20% | 6.3V |
|          |              |                                       |        |       |       | C3005    | 1-126-204-11 | ELECT CHIP   | 47µF     | 20% | 16V  |
|          |              |                                       |        |       |       | C3006    | 1-162-970-11 | CERAMIC CHIP | 0.01µF   | 10% | 25V  |
|          |              |                                       |        |       |       | C3008    | 1-126-204-11 | ELECT CHIP   | 47µF     | 20% | 16V  |
|          |              |                                       |        |       |       | C3009    | 1-162-970-11 | CERAMIC CHIP | 0.01µF   | 10% | 25V  |
|          |              |                                       |        |       |       | C3011    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3012    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3013    | 1-128-391-11 | ELECT CHIP   | 330µF    | 20% | 6.3V |
|          |              |                                       |        |       |       | C3014    | 1-128-391-11 | ELECT CHIP   | 330µF    | 20% | 6.3V |
|          |              |                                       |        |       |       | C3015    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3016    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3017    | 1-125-837-91 | CERAMIC CHIP | 1µF      | 10% | 6.3V |
|          |              |                                       |        |       |       | C3018    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3019    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3020    | 1-107-826-11 | CERAMIC CHIP | 0.1µF    | 10% | 16V  |
|          |              |                                       |        |       |       | C3021    | 1-164-156-11 | CERAMIC CHIP | 0.1µF    |     | 25V  |
|          |              |                                       |        |       |       | C3023    | 1-125-837-91 | CERAMIC CHIP | 1µF      | 10% | 6.3V |

**BY**

\* **A-1302-940-A BY 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**

|       |              |              |         |     |     |
|-------|--------------|--------------|---------|-----|-----|
| 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 |



| REF. NO. | PART NO.     | DESCRIPTION  | VALUES       |     |      | REF. NO. | PART NO.     | DESCRIPTION  | VALUES       |     |      |
|----------|--------------|--------------|--------------|-----|------|----------|--------------|--------------|--------------|-----|------|
| C3024    | 1-125-837-91 | CERAMIC CHIP | 1 $\mu$ F    | 10% | 6.3V | C3318    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3025    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3319    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3026    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3325    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3027    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3326    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3028    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3329    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  |
| C3029    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3333    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3030    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3334    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  |
| C3031    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3335    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3032    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3337    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  |
| C3033    | 1-109-982-11 | CERAMIC CHIP | 1 $\mu$ F    | 10% | 10V  | C3341    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3034    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3343    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3035    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3349    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3036    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  | C3350    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3037    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  | C3351    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3038    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3357    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3040    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  | C3358    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3042    | 1-128-391-11 | ELECT CHIP   | 330 $\mu$ F  | 20% | 6.3V | C3359    | 1-126-204-11 | ELECT CHIP   | 47 $\mu$ F   | 20% | 16V  |
| C3044    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3360    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3046    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3363    | 1-126-204-11 | ELECT CHIP   | 47 $\mu$ F   | 20% | 16V  |
| C3047    | 1-126-204-11 | ELECT CHIP   | 47 $\mu$ F   | 20% | 16V  | C3364    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3048    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3365    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3049    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  | C3366    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3089    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3367    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3090    | 1-126-204-11 | ELECT CHIP   | 47 $\mu$ F   | 20% | 16V  | C3368    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3095    | 1-117-681-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 16V  | C3369    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3096    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3370    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3097    | 1-117-681-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 16V  | C3371    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3098    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  | C3372    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3101    | 1-162-925-11 | CERAMIC CHIP | 68pF         | 5%  | 50V  | C3374    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3102    | 1-162-925-11 | CERAMIC CHIP | 68pF         | 5%  | 50V  | C3375    | 1-127-760-11 | CERAMIC CHIP | 4.7 $\mu$ F  | 10% | 6.3V |
| C3103    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  | C3376    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3301    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3377    | 1-162-970-11 | CERAMIC CHIP | 0.01 $\mu$ F | 10% | 25V  |
| C3302    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3378    | 1-126-204-11 | ELECT CHIP   | 47 $\mu$ F   | 20% | 16V  |
| C3303    | 1-126-206-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 6.3V | C3379    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3304    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3401    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3305    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3402    | 1-124-779-00 | ELECT CHIP   | 10 $\mu$ F   | 20% | 16V  |
| C3307    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3403    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3308    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3404    | 1-126-206-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 6.3V |
| C3309    | 1-126-206-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 6.3V | C3405    | 1-126-206-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 6.3V |
| C3313    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3406    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  |
| C3314    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3407    | 1-107-826-11 | CERAMIC CHIP | 0.1 $\mu$ F  | 10% | 16V  |
| C3315    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3408    | 1-126-206-11 | ELECT CHIP   | 100 $\mu$ F  | 20% | 6.3V |
| C3316    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3409    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |
| C3317    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  | C3410    | 1-164-156-11 | CERAMIC CHIP | 0.1 $\mu$ F  |     | 25V  |



| REF. NO. | PART NO.     | DESCRIPTION  | VALUES |     |     | REF. NO. | PART NO.     | DESCRIPTION  | VALUES |     |      |
|----------|--------------|--------------|--------|-----|-----|----------|--------------|--------------|--------|-----|------|
| C3411    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3457    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3412    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3458    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3413    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3460    | 1-162-923-11 | CERAMIC CHIP | 47pF   | 5%  | 50V  |
| C3414    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3462    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3415    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3463    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3416    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3464    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3417    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3465    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3418    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V | C3466    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3419    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3467    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3420    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3468    | 1-126-206-11 | ELECT CHIP   | 100μF  | 20% | 6.3V |
| C3421    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3469    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3422    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3470    | 1-126-206-11 | ELECT CHIP   | 100μF  | 20% | 6.3V |
| C3423    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V | C3473    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3424    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3474    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3425    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V | C3475    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3426    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3476    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3428    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V | C3477    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3429    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3478    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V  |
| C3430    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3479    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3431    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V | C3480    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3432    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3481    | 1-117-681-11 | ELECT CHIP   | 100μF  | 20% | 16V  |
| C3433    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V | C3482    | 1-117-681-11 | ELECT CHIP   | 100μF  | 20% | 16V  |
| C3434    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V | C3483    | 1-117-681-11 | ELECT CHIP   | 100μF  | 20% | 16V  |
| C3435    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3484    | 1-125-837-91 | CERAMIC CHIP | 1μF    | 10% | 6.3V |
| C3436    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V | C3485    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3437    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V | C3486    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3438    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3487    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3439    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3488    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3440    | 1-162-916-11 | CERAMIC CHIP | 12pF   | 5%  | 50V | C3489    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3441    | 1-162-916-11 | CERAMIC CHIP | 12pF   | 5%  | 50V | C3490    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3442    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3491    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V  |
| C3443    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V | C3492    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3444    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3493    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V  |
| C3445    | 1-126-204-11 | ELECT CHIP   | 47μF   | 20% | 16V | C3494    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3446    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V | C3495    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3447    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3496    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3448    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V | C3499    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V  |
| C3449    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V | C3500    | 1-126-206-11 | ELECT CHIP   | 100μF  | 20% | 6.3V |
| C3450    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3501    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3452    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3613    | 1-126-206-11 | ELECT CHIP   | 100μF  | 20% | 6.3V |
| C3453    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3614    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  |
| C3454    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3615    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V  |
| C3455    | 1-124-779-00 | ELECT CHIP   | 10μF   | 20% | 16V | C3617    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V  |
| C3456    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  | 25V |     | C3618    | 1-127-760-11 | CERAMIC CHIP | 4.7μF  | 10% | 6.3V |







| REF. NO. | PART NO.          | DESCRIPTION | VALUES         | REF. NO. | PART NO.        | DESCRIPTION | VALUES           |
|----------|-------------------|-------------|----------------|----------|-----------------|-------------|------------------|
| L3403    | 1-469-561-21      | INDUCTOR    | 100µH          | Q3306    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| L3404    | 1-469-561-21      | INDUCTOR    | 100µH          | Q3307    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| L3405    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3308    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| L3406    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3309    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| L3407    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3310    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| L3409    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3311    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| L3411    | 1-412-058-11      | INDUCTOR    | 10µH           | Q3401    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| L3412    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3402    | 8-729-028-28    | TRANSISTOR  | 2SK2036(TE85L)   |
| L3413    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3403    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| L3414    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3404    | 8-729-028-28    | TRANSISTOR  | 2SK2036(TE85L)   |
| L3416    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3405    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| L3418    | 1-469-555-21      | INDUCTOR    | 10µH           | Q3406    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| L3903    | 1-412-052-21      | INDUCTOR    | 1µH            | Q3407    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
|          | <b>TRANSISTOR</b> |             |                | Q3408    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2801    | 8-729-122-63      | TRANSISTOR  | 2SA1226-E4     | Q3409    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| Q2802    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | Q3410    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2803    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | Q3411    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2804    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | Q3412    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2805    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | Q3413    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2806    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | Q3414    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2807    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | Q3415    | 8-729-424-02    | TRANSISTOR  | 2SB709A-QRS-TX   |
| Q2811    | 8-729-122-63      | TRANSISTOR  | 2SA1226-E4     | Q3416    | 8-729-422-27    | TRANSISTOR  | 2SD601A-Q        |
| Q2812    | 8-729-122-63      | TRANSISTOR  | 2SA1226-E4     |          | <b>RESISTOR</b> |             |                  |
| Q2813    | 8-729-122-63      | TRANSISTOR  | 2SA1226-E4     | R2801    | 1-218-867-11    | METAL CHIP  | 6.8K 0.50% 1/10W |
| Q2818    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2803    | 1-216-829-11    | METAL CHIP  | 4.7K 5% 1/10W    |
| Q2819    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2804    | 1-216-805-11    | METAL CHIP  | 47 5% 1/10W      |
| Q2820    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2805    | 1-216-823-11    | METAL CHIP  | 1.5K 5% 1/10W    |
| Q2821    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2806    | 1-216-863-11    | METAL CHIP  | 3.3M 5% 1/10W    |
| Q2822    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2807    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q2823    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2808    | 1-216-834-11    | METAL CHIP  | 12K 5% 1/10W     |
| Q3003    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2809    | 1-216-825-11    | METAL CHIP  | 2.2K 5% 1/10W    |
| Q3005    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2810    | 1-216-825-11    | METAL CHIP  | 2.2K 5% 1/10W    |
| Q3006    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2811    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3007    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2812    | 1-218-708-11    | METAL CHIP  | 4.7K 0.50% 1/10W |
| Q3008    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2813    | 1-216-833-11    | METAL CHIP  | 10K 5% 1/10W     |
| Q3009    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2815    | 1-216-833-11    | METAL CHIP  | 10K 5% 1/10W     |
| Q3089    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | R2816    | 1-216-845-11    | METAL CHIP  | 100K 5% 1/10W    |
| Q3090    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | R2817    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3092    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2818    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3093    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2819    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3302    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2820    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3303    | 8-729-422-27      | TRANSISTOR  | 2SD601A-Q      | R2821    | 1-216-809-11    | METAL CHIP  | 100 5% 1/10W     |
| Q3305    | 8-729-424-02      | TRANSISTOR  | 2SB709A-QRS-TX | R2823    | 1-216-841-11    | METAL CHIP  | 47K 5% 1/10W     |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|-------|-------|
| 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    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 1/10W |
| R2842    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2908    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 1/10W |
| R2843    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2909    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 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 | R2913    | 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 | R3002    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R2851    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W | R3004    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R2853    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3013    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2854    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3014    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2858    | 1-218-716-11 | METAL CHIP  | 10K    | 0.50% | 1/10W | R3015    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2860    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R3017    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R2861    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R3020    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R2862    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3021    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2865    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3022    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2866    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3023    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2867    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3025    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2868    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3026    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2869    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3029    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2870    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3030    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R2880    | 1-216-823-11 | METAL CHIP  | 1.5K   | 5%    | 1/10W | R3031    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2881    | 1-216-823-11 | METAL CHIP  | 1.5K   | 5%    | 1/10W | R3032    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2883    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3033    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2884    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3034    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|-------|-------|
| R3035    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3102    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3036    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3103    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3037    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3104    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3038    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R3105    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3039    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R3107    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3040    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R3108    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R3043    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3110    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3045    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3111    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3047    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3116    | 1-216-797-11 | METAL CHIP  | 10     | 5%    | 1/10W |
| R3049    | 1-216-859-11 | METAL CHIP  | 1.5M   | 5%    | 1/10W | R3117    | 1-216-797-11 | METAL CHIP  | 10     | 5%    | 1/10W |
| R3050    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R3302    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W |
| R3051    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3303    | 1-218-710-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W |
| R3056    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3304    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3057    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3323    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3058    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3324    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R3059    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3325    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R3060    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3326    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3061    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3335    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R3063    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3341    | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W |
| R3064    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3342    | 1-218-705-11 | METAL CHIP  | 3.6K   | 0.50% | 1/10W |
| R3066    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3343    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3068    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3344    | 1-216-853-11 | METAL CHIP  | 470K   | 5%    | 1/10W |
| R3069    | 1-216-820-11 | METAL CHIP  | 820    | 5%    | 1/10W | R3345    | 1-218-704-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W |
| R3070    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3346    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3071    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3347    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W |
| R3072    | 1-216-855-11 | METAL CHIP  | 680K   | 5%    | 1/10W | R3348    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3073    | 1-216-855-11 | METAL CHIP  | 680K   | 5%    | 1/10W | R3349    | 1-218-687-11 | METAL CHIP  | 620    | 0.50% | 1/10W |
| R3074    | 1-218-704-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W | R3350    | 1-216-814-11 | METAL CHIP  | 270    | 5%    | 1/10W |
| R3075    | 1-216-801-11 | METAL CHIP  | 22     | 5%    | 1/10W | R3351    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3076    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3352    | 1-216-853-11 | METAL CHIP  | 470K   | 5%    | 1/10W |
| R3077    | 1-216-841-11 | METAL CHIP  | 47K    | 5%    | 1/10W | R3353    | 1-216-837-11 | METAL CHIP  | 22K    | 5%    | 1/10W |
| R3078    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W | R3354    | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W |
| R3079    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W | R3355    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R3089    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3357    | 1-218-676-11 | METAL CHIP  | 220    | 0.50% | 1/10W |
| R3091    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3358    | 1-218-676-11 | METAL CHIP  | 220    | 0.50% | 1/10W |
| R3092    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R3359    | 1-218-676-11 | METAL CHIP  | 220    | 0.50% | 1/10W |
| R3093    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3360    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R3095    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W | R3364    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3096    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3365    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R3097    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W | R3366    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3098    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W | R3367    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W |
| R3099    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W | R3369    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3100    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3370    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R3101    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3371    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |    |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|----|-------|
| R3372    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3441    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3373    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3442    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R3374    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3445    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3375    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R3446    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3376    | 1-218-710-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | R3447    | 1-216-819-11 | METAL CHIP  | 680    | 5% | 1/10W |
| R3377    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3448    | 1-216-855-11 | METAL CHIP  | 680K   | 5% | 1/10W |
| R3378    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3451    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3379    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3452    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3380    | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R3454    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/10W |
| R3381    | 1-218-710-11 | METAL CHIP  | 5.6K   | 0.50% | 1/10W | R3457    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W |
| R3382    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3460    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R3383    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R3461    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R3384    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3464    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3385    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3465    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3386    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3466    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W |
| R3387    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3467    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3388    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3468    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3389    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3469    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3390    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3470    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3391    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3471    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3392    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3472    | 1-216-801-11 | METAL CHIP  | 22     | 5% | 1/10W |
| R3393    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3473    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3394    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3475    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3400    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3476    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3401    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3477    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3406    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R3478    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3407    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3480    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3409    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3483    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3410    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R3484    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3411    | 1-216-797-11 | METAL CHIP  | 10     | 5%    | 1/10W | R3485    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3421    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3486    | 1-216-801-11 | METAL CHIP  | 22     | 5% | 1/10W |
| R3422    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3489    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3423    | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W | R3490    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R3426    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3491    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3428    | 1-469-094-21 | FERRITE     | 0μH    |       |       | R3492    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3429    | 1-216-823-11 | METAL CHIP  | 1.5K   | 5%    | 1/10W | R3493    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R3432    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W | R3494    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W |
| R3434    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3495    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3435    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3496    | 1-216-801-11 | METAL CHIP  | 22     | 5% | 1/10W |
| R3436    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3497    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R3437    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3498    | 1-216-818-11 | METAL CHIP  | 560    | 5% | 1/10W |
| R3438    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3499    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3439    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3501    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R3440    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3502    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|-------|-------|
| R3503    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3835    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W |
| R3504    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3836    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W |
| R3505    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3837    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W |
| R3506    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3838    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W |
| R3507    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3839    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W |
| R3508    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3840    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W |
| R3509    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3841    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W |
| R3510    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3842    | 1-218-689-11 | METAL CHIP  | 750    | 0.50% | 1/10W |
| R3511    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3846    | 1-216-801-11 | METAL CHIP  | 22     | 5%    | 1/10W |
| R3512    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R3847    | 1-216-801-11 | METAL CHIP  | 22     | 5%    | 1/10W |
| R3533    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3848    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3535    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3849    | 1-218-675-11 | METAL CHIP  | 200    | 0.50% | 1/10W |
| R3536    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3850    | 1-218-675-11 | METAL CHIP  | 200    | 0.50% | 1/10W |
| R3537    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3851    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3800    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3852    | 1-218-675-11 | METAL CHIP  | 200    | 0.50% | 1/10W |
| R3802    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W | R3854    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3803    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W | R3857    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3804    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W | R3858    | 1-218-704-11 | METAL CHIP  | 3.3K   | 0.50% | 1/10W |
| R3805    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W | R3862    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3807    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W | R3863    | 1-218-700-11 | METAL CHIP  | 2.2K   | 0.50% | 1/10W |
| R3808    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W | R3864    | 1-216-827-11 | METAL CHIP  | 3.3K   | 5%    | 1/10W |
| R3809    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W | R3865    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3810    | 1-218-670-11 | METAL CHIP  | 120    | 0.50% | 1/10W | R3866    | 1-414-234-22 | FERRITE     | 0μH    |       |       |
| R3811    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3867    | 1-414-234-22 | FERRITE     | 0μH    |       |       |
| R3812    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3868    | 1-414-234-22 | FERRITE     | 0μH    |       |       |
| R3813    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3881    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 1/10W |
| R3814    | 1-218-644-11 | METAL CHIP  | 10     | 0.50% | 1/10W | R3882    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 1/10W |
| R3815    | 1-218-648-11 | METAL CHIP  | 15     | 0.50% | 1/10W | R3883    | 1-216-807-11 | METAL CHIP  | 68     | 5%    | 1/10W |
| R3816    | 1-218-652-11 | METAL CHIP  | 22     | 0.50% | 1/10W | R3911    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R3817    | 1-218-652-11 | METAL CHIP  | 22     | 0.50% | 1/10W | R3933    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3820    | 1-218-684-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R3937    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R3821    | 1-218-684-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R3953    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R3822    | 1-218-684-11 | METAL CHIP  | 470    | 0.50% | 1/10W | R3954    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R3823    | 1-216-826-11 | METAL CHIP  | 2.7K   | 5%    | 1/10W | R3955    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R3824    | 1-216-826-11 | METAL CHIP  | 2.7K   | 5%    | 1/10W | R3956    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3825    | 1-216-826-11 | METAL CHIP  | 2.7K   | 5%    | 1/10W | R3957    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3826    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R3958    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R3828    | 1-218-682-11 | METAL CHIP  | 390    | 0.50% | 1/10W | R3975    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3829    | 1-218-682-11 | METAL CHIP  | 390    | 0.50% | 1/10W | R3976    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3830    | 1-218-682-11 | METAL CHIP  | 390    | 0.50% | 1/10W | R3977    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3831    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3978    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3832    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3979    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3833    | 1-216-864-11 | SHORT CHIP  |        |       |       | R3980    | 1-216-864-11 | SHORT CHIP  |        |       |       |
| R3834    | 1-218-678-11 | METAL CHIP  | 270    | 0.50% | 1/10W | R3981    | 1-216-864-11 | SHORT CHIP  |        |       |       |





| REF. NO.               | PART NO.     | DESCRIPTION            | VALUES         | REF. NO.   | PART NO.     | DESCRIPTION       | VALUES         |
|------------------------|--------------|------------------------|----------------|--|--------------|-------------------|----------------|
| R3982                  | 1-216-864-11 | SHORT CHIP             |                | <b>CRYSTAL</b>   |              |                   |                |
| R3983                  | 1-216-864-11 | SHORT CHIP             |                | X2801  | 1-760-895-21 | VIBRATOR, CERAMIC |                |
| R3984                  | 1-218-644-11 | METAL CHIP             | 10 0.50% 1/10W | X3089  | 1-781-945-21 | VIBRATOR, CERAMIC |                |
| R3985                  | 1-218-644-11 | METAL CHIP             | 10 0.50% 1/10W | X3401  | 1-781-887-21 | VIBRATOR, CRYSTAL |                |
| R3986                  | 1-218-644-11 | METAL CHIP             | 10 0.50% 1/10W | <b>MY</b>  |              |                   |                |
| <b>RESISTOR BRIDGE</b> |              |                        |                | * <b>A-1302-937-A MY BOARD, COMPLETE</b>   |              |                   |                |
| RB3001                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | <b>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> |              |                   |                |
| RB3002                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | <b>CAPACITOR</b>   |              |                   |                |
| RB3003                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2017  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3004                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2019  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3011                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2020  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3013                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2022  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3014                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2027  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3015                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2029  | 1-126-964-11 | ELECT             | 10µF 20% 50V   |
| RB3304                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2038  | 1-162-916-11 | CERAMIC CHIP      | 12pF 5% 50V    |
| RB3305                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2039  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3306                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2040  | 1-125-891-11 | CERAMIC CHIP      | 0.47µF 10% 10V |
| RB3307                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2041  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3401                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2042  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3402                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2043  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3403                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2044  | 1-164-315-11 | CERAMIC CHIP      | 470pF 5% 50V   |
| RB3404                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2045  | 1-126-933-11 | ELECT             | 100µF 20% 16V  |
| RB3405                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2046  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3406                 | 1-234-524-21 | RES, CHIP NETWORK      | 33 (3216)      | C2050  | 1-164-156-11 | CERAMIC CHIP      | 0.1µF 25V      |
| RB3407                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2058  | 1-126-963-11 | ELECT             | 4.7µF 20% 50V  |
| RB3408                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2059  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3409                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2060  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3410                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2061  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3411                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2062  | 1-164-156-11 | CERAMIC CHIP      | 0.1µF 25V      |
| RB3412                 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47             | C2064  | 1-162-970-11 | CERAMIC CHIP      | 0.01µF 10% 25V |
| RB3421                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2065  | 1-126-933-11 | ELECT             | 100µF 20% 16V  |
| RB3422                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2066  | 1-164-156-11 | CERAMIC CHIP      | 0.1µF 25V      |
| RB3423                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2067  | 1-109-982-11 | CERAMIC CHIP      | 1µF 10% 10V    |
| RB3424                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2069  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3425                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2071  | 1-126-963-11 | ELECT             | 4.7µF 20% 50V  |
| RB3426                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2072  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3427                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2075  | 1-107-826-11 | CERAMIC CHIP      | 0.1µF 10% 16V  |
| RB3428                 | 1-233-576-11 | RES, CHIP NETWORK      | 100 (3216)     | C2077  | 1-162-970-11 | CERAMIC CHIP      | 0.01µF 10% 25V |
| RB3436                 | 1-234-523-21 | RES, CHIP NETWORK      | 0 (3216)       |  |              |                   |                |
| RB3437                 | 1-234-523-21 | RES, CHIP NETWORK      | 0 (3216)       |  |              |                   |                |
| RB3438                 | 1-234-523-21 | RES, CHIP NETWORK      | 0 (3216)       |  |              |                   |                |
| RB3439                 | 1-234-523-21 | RES, CHIP NETWORK      | 0 (3216)       |  |              |                   |                |



| REF. NO. | PART NO.     | DESCRIPTION  | VALUES |     |      | REF. NO. | PART NO.     | DESCRIPTION  | VALUES   |        |      |
|----------|--------------|--------------|--------|-----|------|----------|--------------|--------------|----------|--------|------|
| C2082    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2218    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2085    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2219    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2088    | 1-216-864-11 | SHORT CHIP   |        |     |      | C2220    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2089    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2221    | 1-162-917-11 | CERAMIC CHIP | 15pF     | 5%     | 50V  |
| C2090    | 1-216-864-11 | SHORT CHIP   |        |     |      | C2222    | 1-162-917-11 | CERAMIC CHIP | 15pF     | 5%     | 50V  |
| C2091    | 1-162-927-11 | CERAMIC CHIP | 100pF  | 5%  | 50V  | C2223    | 1-165-908-11 | CERAMIC CHIP | 1μF      | 10%    | 10V  |
| C2096    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2224    | 1-115-156-11 | CERAMIC CHIP | 1μF      |        | 10V  |
| C2097    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2225    | 1-162-917-11 | CERAMIC CHIP | 15pF     | 5%     | 50V  |
| C2098    | 1-125-837-91 | CERAMIC CHIP | 1μF    | 10% | 6.3V | C2226    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2099    | 1-125-837-91 | CERAMIC CHIP | 1μF    | 10% | 6.3V | C2227    | 1-126-933-11 | ELECT        | 100μF    | 20%    | 16V  |
| C2100    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2228    | 1-162-913-11 | CERAMIC CHIP | 8pF      | 0.50pF | 50V  |
| C2103    | 1-125-891-11 | CERAMIC CHIP | 0.47μF | 10% | 10V  | C2229    | 1-162-913-11 | CERAMIC CHIP | 8pF      | 0.50pF | 50V  |
| C2106    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2230    | 1-162-915-11 | CERAMIC CHIP | 10pF     | 0.50pF | 50V  |
| C2107    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2231    | 1-125-837-91 | CERAMIC CHIP | 1μF      | 10%    | 6.3V |
| C2108    | 1-126-933-11 | ELECT        | 100μF  | 20% | 16V  | C2232    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2109    | 1-125-837-91 | CERAMIC CHIP | 1μF    | 10% | 6.3V | C2233    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2110    | 1-162-919-11 | CERAMIC CHIP | 22pF   | 5%  | 50V  | C2234    | 1-126-933-11 | ELECT        | 100μF    | 20%    | 16V  |
| C2115    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2235    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2116    | 1-126-933-11 | ELECT        | 100μF  | 20% | 16V  | C2236    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2117    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2237    | 1-162-917-11 | CERAMIC CHIP | 15pF     | 5%     | 50V  |
| C2122    | 1-162-970-11 | CERAMIC CHIP | 0.01μF | 10% | 25V  | C2238    | 1-126-933-11 | ELECT        | 100μF    | 20%    | 16V  |
| C2123    | 1-125-837-91 | CERAMIC CHIP | 1μF    | 10% | 6.3V | C2239    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2124    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2240    | 1-126-933-11 | ELECT        | 100μF    | 20%    | 16V  |
| C2126    | 1-107-826-11 | CERAMIC CHIP | 0.1μF  | 10% | 16V  | C2241    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10%    | 16V  |
| C2130    | 1-126-933-11 | ELECT        | 100μF  | 20% | 16V  | C2242    | 1-126-934-11 | ELECT        | 220μF    | 20%    | 16V  |
| C2131    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2243    | 1-126-934-11 | ELECT        | 220μF    | 20%    | 16V  |
| C2132    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | 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  |
| C2208    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2300    | 1-162-968-11 | CERAMIC CHIP | 0.0047μF | 10%    | 50V  |
| C2209    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2301    | 1-126-933-11 | ELECT        | 100μF    | 20%    | 16V  |
| C2210    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2302    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2211    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2305    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2212    | 1-126-933-11 | ELECT        | 100μF  | 20% | 16V  | C2306    | 1-162-920-11 | CERAMIC CHIP | 27pF     | 5%     | 50V  |
| C2213    | 1-126-947-11 | ELECT        | 47μF   | 20% | 35V  | C2307    | 1-162-919-11 | CERAMIC CHIP | 22pF     | 5%     | 50V  |
| C2214    | 1-126-933-11 | ELECT        | 100μF  | 20% | 16V  | C2308    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2215    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2309    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |
| C2216    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2310    | 1-162-919-11 | CERAMIC CHIP | 22pF     | 5%     | 50V  |
| C2217    | 1-164-156-11 | CERAMIC CHIP | 0.1μF  |     | 25V  | C2311    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    |        | 25V  |



| REF. NO. | PART NO.     | DESCRIPTION  | VALUES   |            | REF. NO. | PART NO.     | DESCRIPTION  | VALUES   |            |
|----------|--------------|--------------|----------|------------|----------|--------------|--------------|----------|------------|
| C2312    | 1-162-910-11 | CERAMIC CHIP | 5pF      | 0.25pF 50V | C2524    | 1-135-834-91 | CERAMIC CHIP | 2.2μF    | 6.3V       |
| C2313    | 1-115-156-11 | CERAMIC CHIP | 1μF      | 10V        | C2525    | 1-135-834-91 | CERAMIC CHIP | 2.2μF    | 6.3V       |
| C2315    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    | 25V        | C2527    | 1-135-834-91 | CERAMIC CHIP | 2.2μF    | 6.3V       |
| 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    | 6.3V       |
| 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    | 6.3V       |
| 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    | 6.3V       | 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    | 6.3V       | 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    | 6.3V       | 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    |
| C2515    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10% 16V    | C2571    | 1-164-156-11 | CERAMIC CHIP | 0.1μF    | 25V        |
| C2516    | 1-126-933-11 | ELECT        | 100μF    | 20% 16V    | C2572    | 1-126-960-11 | ELECT        | 1μF      | 20% 50V    |
| C2517    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF | 10% 50V    | C2574    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF | 10% 50V    |
| C2518    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF | 10% 50V    | C2575    | 1-126-960-11 | ELECT        | 1μF      | 20% 50V    |
| C2519    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10% 16V    | C2579    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10% 16V    |
| C2520    | 1-162-960-11 | CERAMIC CHIP | 220pF    | 10% 50V    | C2582    | 1-126-933-11 | ELECT        | 100μF    | 20% 16V    |
| C2521    | 1-162-960-11 | CERAMIC CHIP | 220pF    | 10% 50V    | C2584    | 1-126-933-11 | ELECT        | 100μF    | 20% 16V    |
| C2522    | 1-126-947-11 | ELECT        | 47μF     | 20% 35V    | C2585    | 1-135-834-91 | CERAMIC CHIP | 2.2μF    | 6.3V       |
| C2523    | 1-107-826-11 | CERAMIC CHIP | 0.1μF    | 10% 16V    | C2586    | 1-162-964-11 | CERAMIC CHIP | 0.001μF  | 10% 50V    |



| REF. NO. | PART NO.     | DESCRIPTION                    | VALUES             | REF. NO. | PART NO. | DESCRIPTION | VALUES |
|----------|--------------|--------------------------------|--------------------|----------|----------|-------------|--------|
| C2587    | 1-135-834-91 | CERAMIC CHIP                   | 2.2μF 6.3V         |          |          |             |        |
| C2588    | 1-162-964-11 | CERAMIC CHIP                   | 0.001μF 10% 50V    |          |          |             |        |
|          |              | <b>CONNECTOR</b>               |                    |          |          |             |        |
| CN2003   | 1-784-650-21 | CONNECTOR                      | 2P                 |          |          |             |        |
| CN2004   | 1-785-946-21 | CONNECTOR                      | 3P                 |          |          |             |        |
| CN2006   | 1-793-174-11 | SOCKET,PC CONNECTOR (PC BOARD) |                    |          |          |             |        |
| * CN2301 | 1-764-333-11 | PIN, CONNECTOR(PCB)(V TYPE)    | 10P                |          |          |             |        |
| * CN2304 | 1-564-595-11 | PLUG, CONNECTOR                | 14P                |          |          |             |        |
| CN2305   | 1-770-721-11 | CONNECTOR, BOARD TO BOARD      | 4P                 |          |          |             |        |
|          |              | <b>DIODE</b>                   |                    |          |          |             |        |
| D2310    | 8-719-083-57 | DIODE                          | UDZSTE-173.6B      |          |          |             |        |
| D2500    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
| D2501    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
| D2502    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
| D2503    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
| D2504    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
| D2505    | 8-719-978-33 | DIODE                          | DTZ-TT11-6.8B      |          |          |             |        |
| D2506    | 8-719-978-33 | DIODE                          | DTZ-TT11-6.8B      |          |          |             |        |
| D2507    | 8-719-404-50 | DIODE                          | MA111-TX           |          |          |             |        |
|          |              | <b>FERRITE BEAD</b>            |                    |          |          |             |        |
| FB2200   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2501   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2503   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2504   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2505   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2507   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2508   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2509   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2510   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2511   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2512   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2513   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2514   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2515   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2516   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2517   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2518   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2519   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
| FB2520   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2521   | 1-216-864-11 | SHORT CHIP                     |                    |          |          |             |        |
| FB2522   | 1-414-229-11 | FERRITE                        | 0μH                |          |          |             |        |
|          |              | <b>FILTER</b>                  |                    |          |          |             |        |
| FL2201   | 1-239-848-21 | FILTER, LOW PASS               |                    |          |          |             |        |
| FL2202   | 1-239-848-21 | FILTER, LOW PASS               |                    |          |          |             |        |
| FL2203   | 1-239-848-21 | FILTER, LOW PASS               |                    |          |          |             |        |
| FL2204   | 1-239-848-21 | FILTER, LOW PASS               |                    |          |          |             |        |
| FL2205   | 1-409-755-11 | FERRITE                        | 0μH                |          |          |             |        |
| FL2206   | 1-409-755-11 | FERRITE                        | 0μH                |          |          |             |        |
| FL2207   | 1-409-755-11 | FERRITE                        | 0μH                |          |          |             |        |
|          |              | <b>IC</b>                      |                    |          |          |             |        |
| IC2004   | 8-752-102-21 | IC                             | CXA2103AQ          |          |          |             |        |
| IC2006   | 8-752-108-35 | IC                             | CXA2171AQ          |          |          |             |        |
| IC2010   | 8-759-549-07 | IC                             | SN74LV157APWR      |          |          |             |        |
| IC2200   | 6-700-960-01 | IC                             | UPD64083GF-3BA     |          |          |             |        |
| IC2201   | 6-700-399-01 | IC                             | UPC2925T-E1        |          |          |             |        |
| IC2300   | 6-804-283-01 | IC                             | M306V7MG-078FPUO   |          |          |             |        |
| IC2301   | 6-801-375-01 | IC                             | PST9129NL          |          |          |             |        |
| IC2302   | 6-704-573-01 | IC                             | M24C32-WMN6T(B)    |          |          |             |        |
| IC2305   | 8-759-641-26 | IC                             | NJM2391DL1-33(TE1) |          |          |             |        |
| IC2500   | 8-759-394-57 | IC                             | PST593C-MMP-4P     |          |          |             |        |
| IC2501   | 6-801-750-01 | IC                             | TC94A04F-014       |          |          |             |        |
| IC2502   | 8-759-331-71 | IC                             | NJM4558E(TE2)      |          |          |             |        |
|          |              | <b>COIL</b>                    |                    |          |          |             |        |
| L2005    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2007    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2009    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2011    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2012    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2013    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2200    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2201    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2202    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2203    | 1-216-001-00 | RES-CHIP                       | 10 5% 1/10W        |          |          |             |        |
| L2204    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2205    | 1-216-001-00 | RES-CHIP                       | 10 5% 1/10W        |          |          |             |        |
| L2206    | 1-469-555-21 | INDUCTOR                       | 10μH               |          |          |             |        |
| L2207    | 1-469-553-21 | INDUCTOR                       | 4.7μH              |          |          |             |        |
| L2501    | 1-412-537-31 | INDUCTOR                       | 100μH              |          |          |             |        |
| L2502    | 1-216-295-91 | SHORT CHIP                     |                    |          |          |             |        |



| REF. NO.          | PART NO.     | DESCRIPTION | VALUES         | REF. NO.        | PART NO.     | DESCRIPTION | VALUES          |
|-------------------|--------------|-------------|----------------|-----------------|--------------|-------------|-----------------|
| <b>TRANSISTOR</b> |              |             |                | Q2510           | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q       |
| Q2009             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | Q2511           | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q       |
| Q2013             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | Q2512           | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q       |
| Q2016             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | Q2513           | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q       |
| Q2200             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | <b>RESISTOR</b> |              |             |                 |
| Q2201             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2036           | 1-216-837-11 | METAL CHIP  | 22K 5% 1/10W    |
| Q2202             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2037           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2203             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2038           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2204             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2039           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2205             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2041           | 1-216-837-11 | METAL CHIP  | 22K 5% 1/10W    |
| Q2206             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2042           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2207             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2043           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2208             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2044           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2209             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2052           | 1-216-835-11 | METAL CHIP  | 15K 5% 1/10W    |
| Q2210             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2053           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2211             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2055           | 1-216-833-11 | METAL CHIP  | 10K 5% 1/10W    |
| Q2212             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2056           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2213             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2057           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2214             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2061           | 1-216-828-11 | METAL CHIP  | 3.9K 5% 1/10W   |
| Q2215             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2067           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2216             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2069           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2301             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2074           | 1-216-833-11 | METAL CHIP  | 10K 5% 1/10W    |
| Q2303             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2076           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2304             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2078           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2312             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2079           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2313             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2081           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2314             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2082           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2315             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2083           | 1-216-851-11 | METAL CHIP  | 330K 5% 1/10W   |
| Q2316             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2094           | 1-218-716-11 | METAL CHIP  | 10K 0.50% 1/10W |
| Q2320             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2095           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2321             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2097           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2322             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2101           | 1-216-821-11 | METAL CHIP  | 1K 5% 1/10W     |
| Q2324             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2102           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2500             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2103           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2501             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2104           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2502             | 8-729-424-02 | TRANSISTOR  | 2SB709A-QRS-TX | R2107           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2503             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2114           | 1-216-805-11 | METAL CHIP  | 47 5% 1/10W     |
| Q2504             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2115           | 1-216-805-11 | METAL CHIP  | 47 5% 1/10W     |
| Q2505             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2116           | 1-216-805-11 | METAL CHIP  | 47 5% 1/10W     |
| Q2506             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2117           | 1-216-864-11 | SHORT CHIP  |                 |
| Q2507             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2118           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2508             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2119           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |
| Q2509             | 8-729-422-27 | TRANSISTOR  | 2SD601A-Q      | R2126           | 1-216-809-11 | METAL CHIP  | 100 5% 1/10W    |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|-------|-------|
| R2127    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2228    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W |
| R2128    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2229    | 1-216-849-11 | METAL CHIP  | 220K   | 5%    | 1/10W |
| R2130    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2230    | 1-216-841-11 | METAL CHIP  | 47K    | 5%    | 1/10W |
| R2131    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2231    | 1-216-819-11 | METAL CHIP  | 680    | 5%    | 1/10W |
| R2133    | 1-218-665-11 | METAL CHIP  | 75     | 0.50% | 1/10W | R2232    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2134    | 1-218-665-11 | METAL CHIP  | 75     | 0.50% | 1/10W | R2233    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2135    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2234    | 1-216-820-11 | METAL CHIP  | 820    | 5%    | 1/10W |
| R2137    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2235    | 1-216-822-11 | METAL CHIP  | 1.2K   | 5%    | 1/10W |
| R2138    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2236    | 1-216-813-11 | METAL CHIP  | 220    | 5%    | 1/10W |
| R2139    | 1-218-665-11 | METAL CHIP  | 75     | 0.50% | 1/10W | R2237    | 1-216-820-11 | METAL CHIP  | 820    | 5%    | 1/10W |
| R2140    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2238    | 1-216-819-11 | METAL CHIP  | 680    | 5%    | 1/10W |
| R2141    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2239    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2142    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2240    | 1-216-834-11 | METAL CHIP  | 12K    | 5%    | 1/10W |
| R2143    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2241    | 1-216-839-11 | METAL CHIP  | 33K    | 5%    | 1/10W |
| R2144    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2242    | 1-218-680-11 | METAL CHIP  | 330    | 0.50% | 1/10W |
| R2145    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2243    | 1-216-834-11 | METAL CHIP  | 12K    | 5%    | 1/10W |
| R2146    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2244    | 1-216-839-11 | METAL CHIP  | 33K    | 5%    | 1/10W |
| R2201    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2245    | 1-218-684-11 | METAL CHIP  | 470    | 0.50% | 1/10W |
| R2202    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2246    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2203    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2247    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W |
| R2204    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2248    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2205    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2249    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W |
| R2206    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2250    | 1-216-830-11 | METAL CHIP  | 5.6K   | 5%    | 1/10W |
| R2207    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2251    | 1-216-818-11 | METAL CHIP  | 560    | 5%    | 1/10W |
| R2208    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2252    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2209    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2253    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2210    | 1-216-818-11 | METAL CHIP  | 560    | 5%    | 1/10W | R2254    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W |
| R2211    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2255    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W |
| R2212    | 1-216-818-11 | METAL CHIP  | 560    | 5%    | 1/10W | R2256    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2213    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R2257    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2214    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2298    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2215    | 1-216-830-11 | METAL CHIP  | 5.6K   | 5%    | 1/10W | R2299    | 1-216-841-11 | METAL CHIP  | 47K    | 5%    | 1/10W |
| R2216    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R2300    | 1-216-841-11 | METAL CHIP  | 47K    | 5%    | 1/10W |
| R2217    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R2301    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2218    | 1-216-830-11 | METAL CHIP  | 5.6K   | 5%    | 1/10W | R2302    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2219    | 1-216-830-11 | METAL CHIP  | 5.6K   | 5%    | 1/10W | R2303    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2220    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2304    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W |
| R2221    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R2305    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R2222    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2306    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R2223    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5%    | 1/10W | R2307    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2224    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2308    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2225    | 1-216-818-11 | METAL CHIP  | 560    | 5%    | 1/10W | R2311    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2226    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R2312    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R2227    | 1-216-816-11 | METAL CHIP  | 390    | 5%    | 1/10W | R2313    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |






| REF. NO. | PART NO.     | DESCRIPTION | VALUES |       |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |    |       |
|----------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|----|-------|
| R2314    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2365    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2315    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2366    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2316    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2367    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2317    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2368    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2318    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2369    | 1-216-805-11 | METAL CHIP  | 47     | 5% | 1/10W |
| R2319    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2370    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2321    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2371    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2322    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2372    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2323    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2373    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2324    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2374    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2325    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2375    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2326    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2376    | 1-216-805-11 | METAL CHIP  | 47     | 5% | 1/10W |
| R2327    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2377    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2328    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2378    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2329    | 1-216-815-11 | METAL CHIP  | 330    | 5%    | 1/10W | R2379    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2330    | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R2380    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2333    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2381    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2335    | 1-216-820-11 | METAL CHIP  | 820    | 5%    | 1/10W | R2383    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2336    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2388    | 1-216-815-11 | METAL CHIP  | 330    | 5% | 1/10W |
| R2337    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2389    | 1-216-815-11 | METAL CHIP  | 330    | 5% | 1/10W |
| R2338    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2390    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W |
| R2339    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2450    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2341    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2452    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W |
| R2342    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R2453    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2343    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2455    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2344    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2459    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2345    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2460    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2346    | 1-218-734-11 | METAL CHIP  | 56K    | 0.50% | 1/10W | R2464    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2347    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2466    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2348    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R2467    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2350    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2469    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2351    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2471    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2352    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2480    | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/10W |
| R2353    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2481    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2354    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R2483    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2355    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2484    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W |
| R2357    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W | R2485    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2358    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R2486    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W |
| R2359    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W | R2487    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2360    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2488    | 1-216-857-11 | METAL CHIP  | 1M     | 5% | 1/10W |
| R2361    | 1-216-864-11 | SHORT CHIP  |        |       |       | R2489    | 1-216-817-11 | METAL CHIP  | 470    | 5% | 1/10W |
| R2362    | 1-216-805-11 | METAL CHIP  | 47     | 5%    | 1/10W | R2490    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2363    | 1-216-841-11 | METAL CHIP  | 47K    | 5%    | 1/10W | R2493    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2364    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W | R2494    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |



| REF. NO. | PART NO.     | DESCRIPTION | VALUES |    |       | REF. NO. | PART NO.     | DESCRIPTION | VALUES |    |       |
|----------|--------------|-------------|--------|----|-------|----------|--------------|-------------|--------|----|-------|
| R2500    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W | R2551    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2501    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W | R2552    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2502    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2553    | 1-216-853-11 | METAL CHIP  | 470K   | 5% | 1/10W |
| R2503    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2554    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2506    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2555    | 1-216-853-11 | METAL CHIP  | 470K   | 5% | 1/10W |
| R2508    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/10W | R2556    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2509    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2557    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2510    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W | R2558    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2511    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W | R2559    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2512    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2560    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2513    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/10W | R2561    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2514    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2562    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2515    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2563    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2516    | 1-216-839-11 | METAL CHIP  | 33K    | 5% | 1/10W | R2564    | 1-216-817-11 | METAL CHIP  | 470    | 5% | 1/10W |
| R2517    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2565    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2518    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/10W | R2566    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2519    | 1-216-857-11 | METAL CHIP  | 1M     | 5% | 1/10W | R2567    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2520    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2568    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2521    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2569    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2522    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2570    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2523    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W | R2571    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2524    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W | R2572    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2525    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W | R2573    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2526    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2574    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2528    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W | R2575    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2529    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W | R2576    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2530    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W | R2577    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2531    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W | R2578    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2532    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W | R2579    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2533    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2580    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2534    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W | R2581    | 1-216-825-11 | METAL CHIP  | 2.2K   | 5% | 1/10W |
| R2535    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W | R2582    | 1-216-809-11 | METAL CHIP  | 100    | 5% | 1/10W |
| R2536    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2585    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2538    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2593    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2539    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2603    | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/10W |
| R2540    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2604    | 1-216-845-11 | METAL CHIP  | 100K   | 5% | 1/10W |
| R2541    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2605    | 1-216-864-11 | SHORT CHIP  |        |    |       |
| R2542    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W | R2607    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |
| R2543    | 1-216-864-11 | SHORT CHIP  |        |    |       | R2608    | 1-216-833-11 | METAL CHIP  | 10K    | 5% | 1/10W |
| R2546    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W | R2609    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2547    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W | R2610    | 1-216-837-11 | METAL CHIP  | 22K    | 5% | 1/10W |
| R2548    | 1-216-841-11 | METAL CHIP  | 47K    | 5% | 1/10W | R2611    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2549    | 1-216-813-11 | METAL CHIP  | 220    | 5% | 1/10W | R2612    | 1-216-829-11 | METAL CHIP  | 4.7K   | 5% | 1/10W |
| R2550    | 1-216-821-11 | METAL CHIP  | 1K     | 5% | 1/10W |          |              |             |        |    |       |



| REF. NO.   | PART NO.     | DESCRIPTION         | VALUES           | REF. NO. | PART NO.     | DESCRIPTION  | VALUES           |
|--|--------------|---------------------|------------------|----------|--------------|--------------|------------------|
| <b>CRYSTAL</b>   |              |                     |                  | C9540    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| X2001  | 1-567-505-11 | OSCILLATOR, CRYSTAL |                  | C9541    | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V    |
| X2003  | 1-781-282-11 | VIBRATOR, CERAMIC   |                  | C9542    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| X2200  | 1-767-606-11 | VIBRATOR, CRYSTAL   |                  | C9543    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF 10% 50V |
| X2300  | 1-795-572-11 | VIBRATOR, CRYSTAL   |                  | C9545    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF 10% 50V |
| X2500  | 1-767-639-21 | VIBRATOR, CRYSTAL   |                  | C9546    | 1-164-230-11 | CERAMIC CHIP | 220pF 5% 50V     |
|  <p><b>A-1302-939-A P BOARD, COMPLETE</b><br/>The P and PA Boards are interchangeable.<br/>Either board can be used as a replacement.</p> <p>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.<br/>Data is provided for reference only.</p> |              |                     |                  | C9547    | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V    |
|  |              |                     |                  | C9549    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
|  |              |                     |                  | C9550    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
|  |              |                     |                  | C9551    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
|  |              |                     |                  | C9552    | 1-126-246-11 | ELECT CHIP   | 220μF 20% 4V     |
|  |              |                     |                  | C9553    | 1-162-966-11 | CERAMIC CHIP | 0.0022μF 10% 50V |
|  |              |                     |                  | C9554    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
|  |              |                     |                  | C9555    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
|  |              |                     |                  | C9557    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
|  |              |                     |                  | C9558    | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V    |
|  |              |                     |                  | C9559    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9507  | 1-162-970-11 | CERAMIC CHIP        | 0.01μF 10% 25V   | C9560    | 1-126-246-11 | ELECT CHIP   | 220μF 20% 4V     |
| C9508  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9561    | 1-100-756-91 | CERAMIC CHIP | 0.047μF 50V      |
| C9509  | 1-162-966-11 | CERAMIC CHIP        | 0.0022μF 10% 50V | C9562    | 1-127-692-11 | CERAMIC CHIP | 10μF 10% 16V     |
| C9510  | 1-164-230-11 | CERAMIC CHIP        | 220pF 5% 50V     | C9563    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9511  | 1-162-966-11 | CERAMIC CHIP        | 0.0022μF 10% 50V | C9566    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9513  | 1-162-966-11 | CERAMIC CHIP        | 0.0022μF 10% 50V | C9570    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9514  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9571    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9515  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9575    | 1-162-970-11 | CERAMIC CHIP | 0.01μF 10% 25V   |
| C9516  | 1-107-826-11 | CERAMIC CHIP        | 0.1μF 10% 16V    | C9576    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9517  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9578    | 1-162-916-11 | CERAMIC CHIP | 12pF 5% 50V      |
| C9519  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9579    | 1-162-916-11 | CERAMIC CHIP | 12pF 5% 50V      |
| C9521  | 1-162-964-11 | CERAMIC CHIP        | 0.001μF 10% 50V  | C9583    | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V    |
| C9523  | 1-162-964-11 | CERAMIC CHIP        | 0.001μF 10% 50V  | C9584    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9524  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9585    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9525  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9586    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9526  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9587    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9527  | 1-164-505-11 | CERAMIC CHIP        | 2.2μF 16V        | C9588    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9528  | 1-126-246-11 | ELECT CHIP          | 220μF 20% 4V     | C9589    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9529  | 1-107-826-11 | CERAMIC CHIP        | 0.1μF 10% 16V    | C9623    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9530  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9824    | 1-162-919-11 | CERAMIC CHIP | 22pF 5% 50V      |
| C9531  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9825    | 1-162-919-11 | CERAMIC CHIP | 22pF 5% 50V      |
| C9532  | 1-126-394-11 | ELECT CHIP          | 10μF 20% 16V     | C9826    | 1-162-919-11 | CERAMIC CHIP | 22pF 5% 50V      |
| C9533  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9828    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9534  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9830    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |
| C9535  | 1-100-566-91 | CERAMIC CHIP        | 0.1μF 10% 25V    | C9831    | 1-126-394-11 | ELECT CHIP   | 10μF 20% 16V     |
| C9537  | 1-107-826-11 | CERAMIC CHIP        | 0.1μF 10% 16V    | C9832    | 1-107-826-11 | CERAMIC CHIP | 0.1μF 10% 16V    |
| C9538  | 1-162-964-11 | CERAMIC CHIP        | 0.001μF 10% 50V  | C9833    | 1-100-566-91 | CERAMIC CHIP | 0.1μF 10% 25V    |







| REF. NO.               | PART NO.     | DESCRIPTION            | VALUES           | REF. NO. | PART NO.     | DESCRIPTION  | VALUES           |
|------------------------|--------------|------------------------|------------------|----------|--------------|--------------|------------------|
| RB9512                 | 1-233-574-11 | RES, CHIP NETWORK 10   | (3216)           | C9526    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| RB9517                 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K              | C9527    | 1-164-505-11 | CERAMIC CHIP | 2.2µF 16V        |
| <b><u>VARISTOR</u></b> |              |                        |                  | C9528    | 1-126-246-11 | ELECT CHIP   | 220µF 20% 4V     |
| VD9500                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9529    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| VD9501                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9530    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| VD9502                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9531    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| VD9503                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9532    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| VD9504                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9533    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| VD9505                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9534    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| VD9506                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9535    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| VD9507                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9537    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| VD9518                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9538    | 1-162-964-11 | CERAMIC CHIP | 0.001µF 10% 50V  |
| VD9519                 | 6-500-701-01 | DIODE                  | PGB1010603NR     | C9540    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9541    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| X9501                  | 1-767-984-21 | VIBRATOR, CRYSTAL      |                  | C9542    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9543    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9544    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9546    | 1-164-230-11 | CERAMIC CHIP | 220pF 5% 50V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9547    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9549    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9550    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9551    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9552    | 1-126-246-11 | ELECT CHIP   | 220µF 20% 4V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9553    | 1-162-966-11 | CERAMIC CHIP | 0.0022µF 10% 50V |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9554    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9555    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9557    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9558    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9559    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| <b><u>CRYSTAL</u></b>  |              |                        |                  | C9560    | 1-126-246-11 | ELECT CHIP   | 220µF 20% 4V     |
| C9507                  | 1-162-970-11 | CERAMIC CHIP           | 0.01µF 10% 25V   | C9561    | 1-100-756-91 | CERAMIC CHIP | 0.047µF 50V      |
| C9508                  | 1-126-394-11 | ELECT CHIP             | 10µF 20% 16V     | C9562    | 1-127-692-11 | CERAMIC CHIP | 10µF 10% 16V     |
| C9509                  | 1-162-966-11 | CERAMIC CHIP           | 0.0022µF 10% 50V | C9563    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| C9510                  | 1-164-230-11 | CERAMIC CHIP           | 220pF 5% 50V     | C9566    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| C9511                  | 1-162-966-11 | CERAMIC CHIP           | 0.0022µF 10% 50V | C9570    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| C9513                  | 1-162-966-11 | CERAMIC CHIP           | 0.0022µF 10% 50V | C9571    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| C9514                  | 1-126-394-11 | ELECT CHIP             | 10µF 20% 16V     | C9575    | 1-162-970-11 | CERAMIC CHIP | 0.01µF 10% 25V   |
| C9515                  | 1-126-394-11 | ELECT CHIP             | 10µF 20% 16V     | C9576    | 1-126-394-11 | ELECT CHIP   | 10µF 20% 16V     |
| C9516                  | 1-107-826-11 | CERAMIC CHIP           | 0.1µF 10% 16V    | C9578    | 1-162-916-11 | CERAMIC CHIP | 12pF 5% 50V      |
| C9517                  | 1-126-394-11 | ELECT CHIP             | 10µF 20% 16V     | C9579    | 1-162-916-11 | CERAMIC CHIP | 12pF 5% 50V      |
| C9519                  | 1-100-566-91 | CERAMIC CHIP           | 0.1µF 10% 25V    | C9583    | 1-107-826-11 | CERAMIC CHIP | 0.1µF 10% 16V    |
| C9521                  | 1-162-964-11 | CERAMIC CHIP           | 0.001µF 10% 50V  | C9584    | 1-100-566-91 | CERAMIC CHIP | 0.1µF 10% 25V    |
| C9523                  | 1-162-964-11 | CERAMIC CHIP           | 0.001µF 10% 50V  |          |              |              |                  |
| C9524                  | 1-100-566-91 | CERAMIC CHIP           | 0.1µF 10% 25V    |          |              |              |                  |
| C9525                  | 1-100-566-91 | CERAMIC CHIP           | 0.1µF 10% 25V    |          |              |              |                  |



\* **A-1085-903-A PA BOARD, COMPLETE**  
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**





| 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   |          |          |             |                           |
|          |              | <b>CONNECTOR</b>    |                 |          |          |             |                           |
| *        | CN9500       | 1-818-400-11        | HDMI CONNECTOR  |          |          |             |                           |
|          | CN9504       | 1-564-593-11        | PLUG, CONNECTOR |          |          |             | 14P                       |
|          |              | <b>DIODE</b>        |                 |          |          |             |                           |
| 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        |          |          |             |                           |
|          |              | <b>FERRITE BEAD</b> |                 |          |          |             |                           |
| 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             |          |          |             |                           |
|          |              | <b>FILTER</b>       |                 |          |          |             |                           |
| *        | 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                       |
|          |              | <b>IC</b>           |                 |          |          |             |                           |
|          | 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              |          |          |             | SII9993CTG100             |
|          | IC9506       | 6-703-042-01        | IC              |          |          |             | CD4052BNSR                |
|          | IC9509       | 6-550-014-01        | TRANSISTOR      |          |          |             | SSM6N15FU(TE85R)          |
|          | IC9514       | 8-759-331-71        | IC              |          |          |             | NJM4558E(TE2)             |
|          | IC9517       | 6-804-888-01        | IC              |          |          |             | MB89P965APFV1-G-120-BNDE1 |
|          | IC9521       | 8-759-642-22        | IC              |          |          |             | UPC29M05T-E2              |
|          |              | <b>JACK</b>         |                 |          |          |             |                           |
|          | J9503        | 1-794-623-11        | JACK, PIN       |          |          |             | 2P                        |
|          |              | <b>COIL</b>         |                 |          |          |             |                           |
|          | L9501        | 1-416-948-21        | INDUCTOR        |          |          |             | 10μH                      |
|          | L9502        | 1-400-303-21        | INDUCTOR        |          |          |             | 68μH                      |
|          |              | <b>IC LINK</b>      |                 |          |          |             |                           |
|          | PS9500       | 1-576-415-21        | FUSE            |          |          |             | 2A 32V                    |
|          |              | <b>TRANSISTOR</b>   |                 |          |          |             |                           |
|          | 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 |       |       |
|-----------------|--------------|-------------|--------|-------|-------|----------|--------------|-------------|--------|-------|-------|
| <b>RESISTOR</b> |              |             |        |       |       | 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 | R9614    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R9535           | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W | R9615    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R9538           | 1-218-823-11 | METAL CHIP  | 100    | 0.50% | 1/10W | R9616    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R9539           | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W | R9623    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W |
| R9540           | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R9624    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W |
| R9541           | 1-218-694-11 | METAL CHIP  | 1.2K   | 0.50% | 1/10W | R9625    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W |
| R9542           | 1-216-850-11 | METAL CHIP  | 270K   | 5%    | 1/10W | R9626    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R9543           | 1-218-686-11 | METAL CHIP  | 560    | 0.50% | 1/10W | R9627    | 1-216-809-11 | METAL CHIP  | 100    | 5%    | 1/10W |
| R9544           | 1-218-706-11 | METAL CHIP  | 3.9K   | 0.50% | 1/10W | R9850    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |
| R9546           | 1-218-706-11 | METAL CHIP  | 3.9K   | 0.50% | 1/10W | R9851    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R9547           | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W | R9852    | 1-218-644-11 | METAL CHIP  | 10     | 0.50% | 1/10W |
| R9548           | 1-218-716-11 | METAL CHIP  | 10K    | 0.50% | 1/10W | R9853    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W |
| R9552           | 1-216-817-11 | METAL CHIP  | 470    | 5%    | 1/10W | R9854    | 1-216-845-11 | METAL CHIP  | 100K   | 5%    | 1/10W |
| R9555           | 1-218-706-11 | METAL CHIP  | 3.9K   | 0.50% | 1/10W | R9860    | 1-218-706-11 | METAL CHIP  | 3.9K   | 0.50% | 1/10W |
| R9556           | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R9864    | 1-218-701-11 | METAL CHIP  | 2.4K   | 0.50% | 1/10W |
| R9557           | 1-218-706-11 | METAL CHIP  | 3.9K   | 0.50% | 1/10W | R9866    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
| R9558           | 1-216-829-11 | METAL CHIP  | 4.7K   | 5%    | 1/10W | R9867    | 1-216-821-11 | METAL CHIP  | 1K     | 5%    | 1/10W |
|                 |              |             |        |       |       | R9868    | 1-216-833-11 | METAL CHIP  | 10K    | 5%    | 1/10W |



| REF. NO.                       | PART NO.     | DESCRIPTION  | VALUES         | REF. NO. | PART NO.                | DESCRIPTION   | VALUES |
|--------------------------------|--------------|--|----------------|----------|-------------------------|---|--------|
| R9869                          | 1-216-833-11 | METAL CHIP   | 10K 5% 1/10W   | *        | 4-102-197-01            | CARTON, INDIVIDUAL<br>(KV-27HS420 ONLY)                 |        |
| R9882                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-102-200-01            | CARTON, INDIVIDUAL<br>(KV-32HS420 ONLY)                 |        |
| R9884                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-102-204-01            | CARTON, INDIVIDUAL<br>(KV-36HS420 ONLY)                 |        |
| R9885                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-103-041-01            | CARTON, INDIVIDUAL<br>(KV-29DRC420 ONLY)                |        |
| R9886                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-102-097-01            | CUSHION, (FRONT) UPPER<br>(KV-34HS420 ONLY)             |        |
| R9887                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-102-201-01            | CUSHION, (FRONT) UPPER<br>(KV-32HS420 ONLY)             |        |
| R9888                          | 1-218-847-11 | METAL CHIP   | 1K 0.50% 1/10W | *        | 4-102-205-01            | CUSHION, (FRONT) UPPER<br>(KV-36HS420 ONLY)             |        |
| R9890                          | 1-218-665-11 | METAL CHIP   | 75 0.50% 1/10W | *        | 4-102-098-01            | CUSHION, (REAR) UPPER<br>(KV-34HS420 ONLY)              |        |
| R9891                          | 1-216-809-11 | METAL CHIP   | 100 5% 1/10W   | *        | 4-102-202-01            | CUSHION, (REAR) UPPER<br>(KV-32HS420 ONLY)              |        |
| <b>RESISTOR BRIDGE</b>         |              |  |                | *        | 4-102-206-01            | CUSHION, (REAR) UPPER<br>(KV-36HS420 ONLY)              |        |
| RB9500                         | 1-234-524-21 | RES, CHIP NETWORK 33                                   | (3216)         | *        | 4-102-095-01            | CUSHION, LOWER<br>(KV-30HS420 ONLY)                     |        |
| RB9510                         | 1-233-576-11 | RES, CHIP NETWORK 100                                  | (3216)         | *        | 4-102-099-01            | CUSHION, LOWER<br>(KV-34HS420 ONLY)                     |        |
| RB9511                         | 1-233-574-11 | RES, CHIP NETWORK 10                                   | (3216)         | *        | 4-102-199-01            | CUSHION, LOWER<br>(KV-27HS420, 29DRC420 ONLY)           |        |
| RB9512                         | 1-233-574-11 | RES, CHIP NETWORK 10                                   | (3216)         | *        | 4-102-203-01            | CUSHION, LOWER<br>(KV-32HS420 ONLY)                     |        |
| RB9517                         | 1-236-908-11 | NETWORK RESISTOR(CHIP)                                 | 10K            | *        | 4-102-207-01            | CUSHION, LOWER<br>(KV-36HS420 ONLY)                     |        |
| <b>VARISTOR</b>                |              |  |                | *        | 4-102-094-01            | CUSHION, UPPER<br>(KV-30HS420 ONLY)                     |        |
| VD9500                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | 4-102-198-01            | CUSHION, UPPER<br>(KV-27HS420, 29DRC420 ONLY)           |        |
| VD9501                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | 4-102-732-21            | MANUAL, INSTRUCTION<br>(ALL EXCEPT KV-30HS420, 34HS420) |        |
| VD9502                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | 4-102-735-21            | MANUAL, INSTRUCTION<br>(KV-30HS420, 34HS420 ONLY)       |        |
| VD9503                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | <b>REMOTE COMMANDER</b> |   |        |
| VD9504                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | 1-478-709-11            | REMOTE COMMANDER RM-Y197                                |        |
| VD9505                         | 6-500-701-01 | DIODE  | PGB1010603NR   | *        | 4-978-977-01            | BATTERY COVER (for RM-Y197)                             |        |
| 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   |          |                         |   |        |
| <b>CRYSTAL</b>                 |              |  |                |          |                         |   |        |
| X9501                          | 1-767-984-21 | VIBRATOR, CRYSTAL                                      |                |          |                         |   |        |
| <b>ACCESSORIES AND PACKING</b> |              |  |                |          |                         |   |        |
| *                              | 2-059-745-01 | BAG, PROTECTION<br>(KV-27HS420, 29DRC420 ONLY)         |                |          |                         |   |        |
| *                              | 2-067-077-01 | BAG, PROTECTION<br>(KV-30HS420, 32HS420, 34HS420 ONLY) |                |          |                         |   |        |
| *                              | 4-066-646-02 | BAG, PROTECTION<br>(KV-36HS420 ONLY)                   |                |          |                         |   |        |
| *                              | 4-102-093-01 | CARTON, INDIVIDUAL<br>(KV-30HS420 ONLY)                |                |          |                         |   |        |
| *                              | 4-102-096-01 | CARTON, INDIVIDUAL<br>(KV-34HS420 ONLY)                |                |          |                         |   |        |

**Sony Corporation**  
**Sony Technology Center**  
**Technical Services**  
**Service Promotion Department**

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*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 group at [Service\\_Promotion@am.sony.com](mailto:Service_Promotion@am.sony.com).*