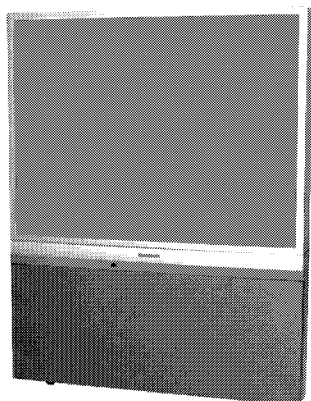


# Service Manual

## Projection Television



**TX-43P250**  
**TX-51P250**  
**TC-43P250**  
**TC-51P250**  
 EURO-7VPChassis

### Specifications

#### Power Source:

TX-43/51P250, TC-51P250H: AC 220V-240V, 50/60Hz

TX-43/51P250X: AC 110V-240V, 50/60Hz

#### Power Consumption:

TX-43/51P250, TC-51P250H: 228W

TX-43/51P250X: 238W

3.0W (Stand-by condition)

#### Aerial Impedance:

75Ω unbalanced, Coaxial type

#### Tuning System:

21 Systems

Frequency Synthesizer

Auto Search

100(Position)/125(Direct)

#### Receiving Channels:

|          |        |                      |
|----------|--------|----------------------|
| VHF Band | 2-12   | (PAL/ SECAM - B, K1) |
|          | 0-12   | (PAL-B AUST.)        |
|          | 1-9    | (PAL-B N.Z.)         |
|          | 1-12   | (PAL/SECAM-D)        |
|          | 1-12   | (NTSC-M JAPAN)       |
| UHF Band | 2-13   | (NTSC-M U.S.A.)      |
|          | 21-69  | (PAL-G, H, I)        |
|          | 21-69  | (SECAM-G, K, K1)     |
|          | 28-69  | (PAL-B AUST.)        |
|          | 13-57  | (PAL-D, K)           |
|          | 13-62  | (NTSC-M Japan)       |
|          | 14-69  | (NTSC-M U.S.A.)      |
| CATV     | S1-S20 | (OSCAR)              |

|         |               |
|---------|---------------|
| S21-S41 | (HYPER)       |
| 1-125   | (U.S.A. CATV) |
| 5A, 9A  | (AUST.)       |
| Z1-Z37  | (CHINA)       |
| C13-C49 | (JAPAN)       |

#### Intermediate Frequency:

|        |                                    |
|--------|------------------------------------|
| Video  | 38.0 MHz                           |
| Sound  | 31.5 MHz (D, K)/32.0 MHz (I)       |
|        | 32.5 MHz (B, G)/33.5 MHz (M)       |
| Colour | 33.57 MHz (PAL)/33.6 MHz (SECAM)   |
|        | 33.75 MHz (SECAM)/34.42 MHz (NTSC) |

#### Receiving Stereo sound system:

NICAM B/G, NICAM I,  
 NICAM D, A2 (German)

#### Screen Size:

|           |         |         |
|-----------|---------|---------|
|           | Type 51 | Type 43 |
| Diagonal: | 296 mm  | 1092 mm |
| Height:   | 780 mm  | 655 mm  |
| Width:    | 1037 mm | 874 mm  |

#### Projection Tube:

|                     |                     |
|---------------------|---------------------|
| Type 51             | Type 43             |
| TVVAB10GAV (B-ASSY) | TVVAB10GLV (B-ASSY) |
| TVVAG10GAV (G-ASSY) | TVVAG10GLV (G-ASSY) |
| TVVAR10GAV (R-ASSY) | TVVAR10GLV (R-ASSY) |
| 90° deflection      |                     |

#### High Voltage:

31.5 ± 1.0 kV at zero beam current

#### Audio Output:

# Panasonic

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24 W [2-way, 4-speakers; 12 W+12 W] (10% THD)

**Video/Audio Terminals:**

|                       |                   |
|-----------------------|-------------------|
| AV1, 2, 3, 4 IN Video | 1 Vp-p 75Ω        |
| S-Video               | Y: 1.0 Vp-p 75Ω   |
|                       | C: 0.3Vp-p 75Ω    |
| Audio                 | Approx. 0.4V 47kΩ |
| Monitor OUT Video     | 1Vp-p 75Ω         |
| Audio                 | Approx. 0.4V 1kΩ  |

**Dimensions:**

|         |         |         |
|---------|---------|---------|
|         | Type 51 | Type 43 |
| Height: | 1385 mm | 1260 mm |
| Width:  | 1095 mm | 932 mm  |

Depth: 500 mm

500 mm

**Mass:**

|         |         |
|---------|---------|
| Type 51 | Type 43 |
| 58 kg   | 54 kg   |

**Accessories Supplied:**

Remote Controller x 1  
 "R6" Battery x 2  
 75Ω coaxial aerial plug

Design and Specifications are subject to change without notice.

Mass and dimensions shown are approximate.

**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 Safety Precautions

## 1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.  
If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as **31.5kV**, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

## 1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 M $\Omega$  and 20 M $\Omega$ .

When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$ .

## 1.3. Leakage Current Hot Check (See Fig.1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k $\Omega$ , 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to

the customer.

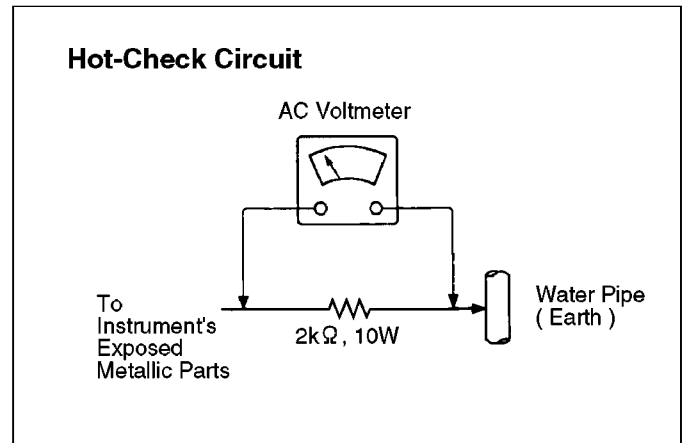


Fig. 1

## 1.4. X-Radiation

### Warning :

1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling **31.5kV** without causing X-Radiation.

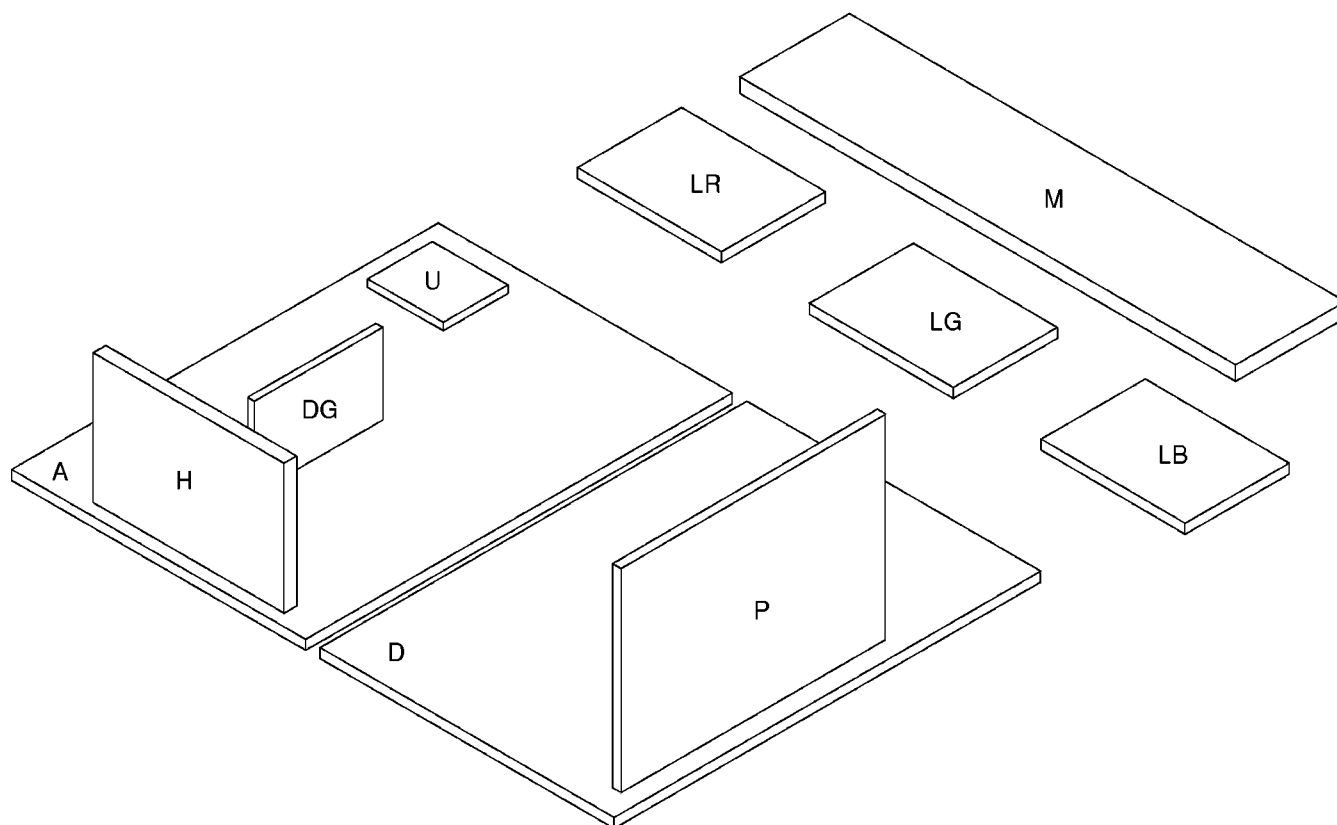
### Note:

It is important use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the service position.
3. Measure the High Voltage. The meter reading should indicate **31.5  $\pm$  1.0 kV**. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.



## 2 Chassis Board Layout

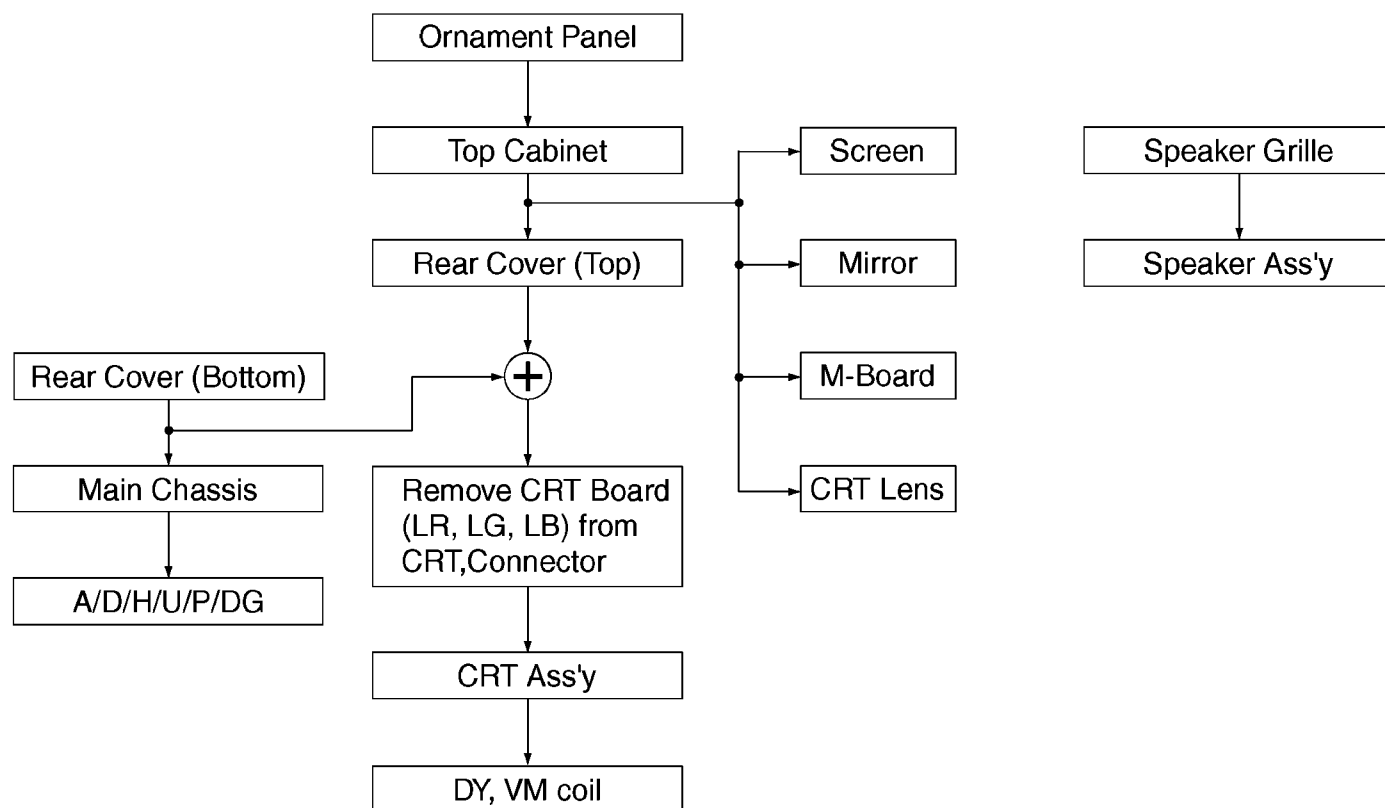


| Board-Name | Function                       |
|------------|--------------------------------|
| A-Board    | Main Signal, Digital Converter |
| P-Board    | Line Filter                    |
| D-Board    | Deflection, High Voltage       |
| LR-Board   | CRT Drive (R)                  |
| LG-Board   | CRT Drive (G)                  |
| LB-Board   | CRT Drive (B)                  |
| H-Board    | Rear terminal                  |
| U-Board    | MPU                            |
| M-Board    | Front Terminal, Power Switch   |
| DG-Board   | Digital Core                   |

### 3 Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

#### 3.1. Disassembly Flowchart

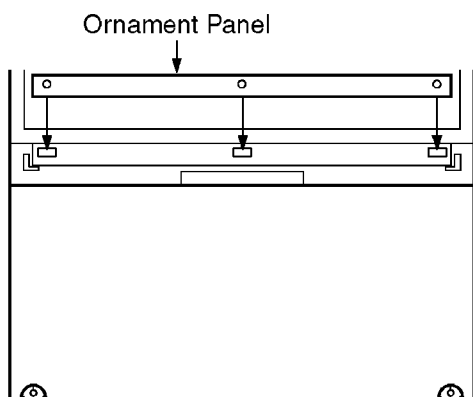


**Note:**

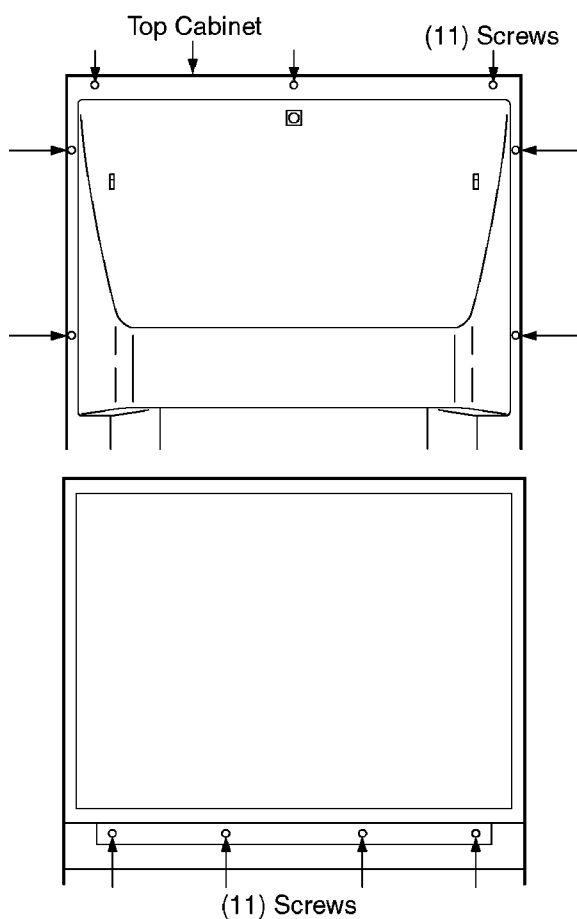
Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

**3.2. Ornament Panel**

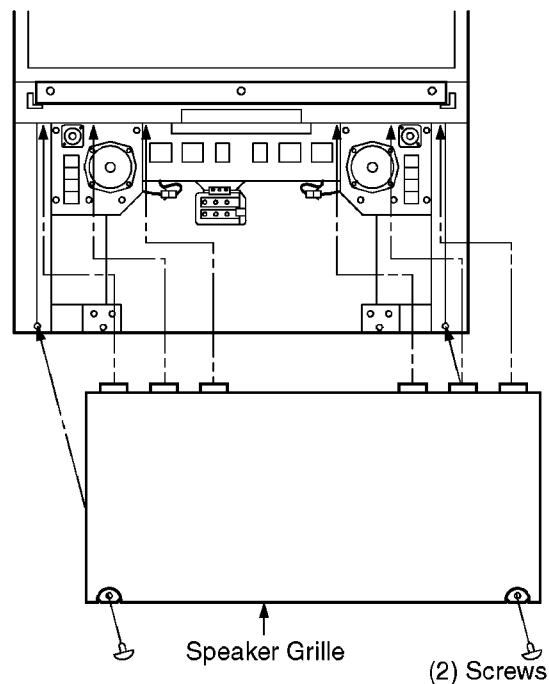
1. The Ornament Panel is secured by (3) striker pins. Grip the Ornament Panel at the side corner pull to remove.

**3.3. Cabinet (Top)**

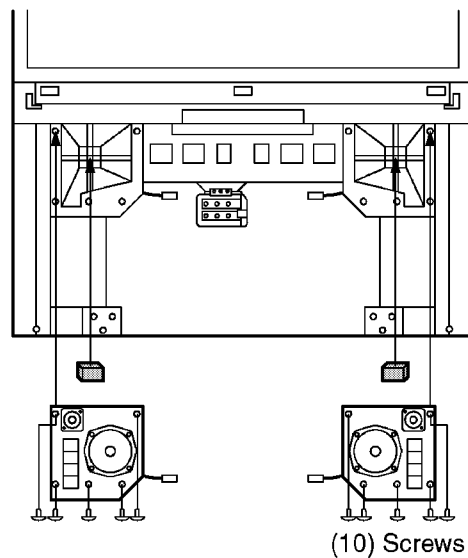
1. Remove (11) Screws.

**3.4. Speaker Grille**

1. Remove (2) screws.

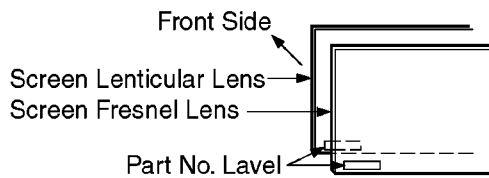
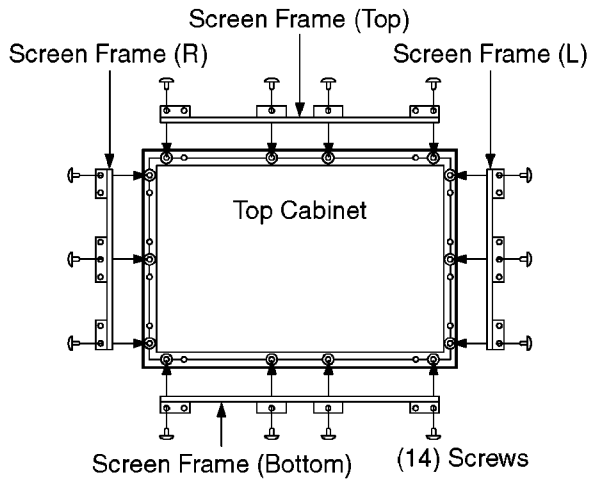
**3.5. Speaker Ass'y**

1. Remove (10) screws.



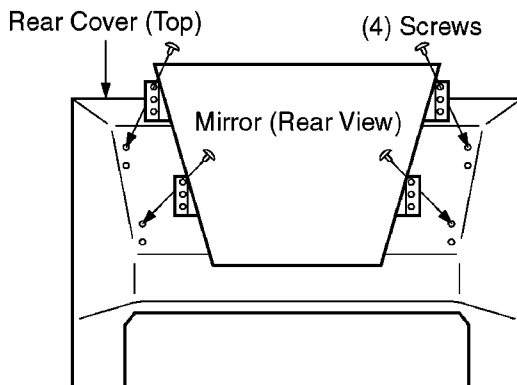
### 3.6. Screen

1. Remove (14) screws.

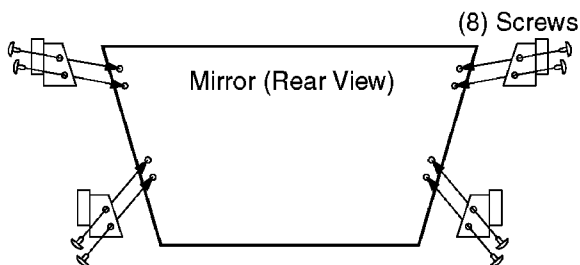


### 3.7. Mirror

1. Remove (4) screws.

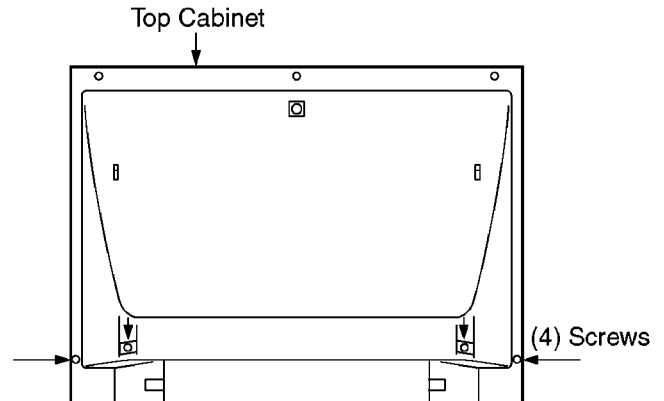


2. Remove (8) screws.

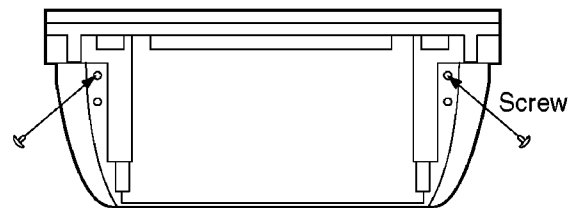


### 3.8. Rear Cover (Top)

1. Remove (4) screws.



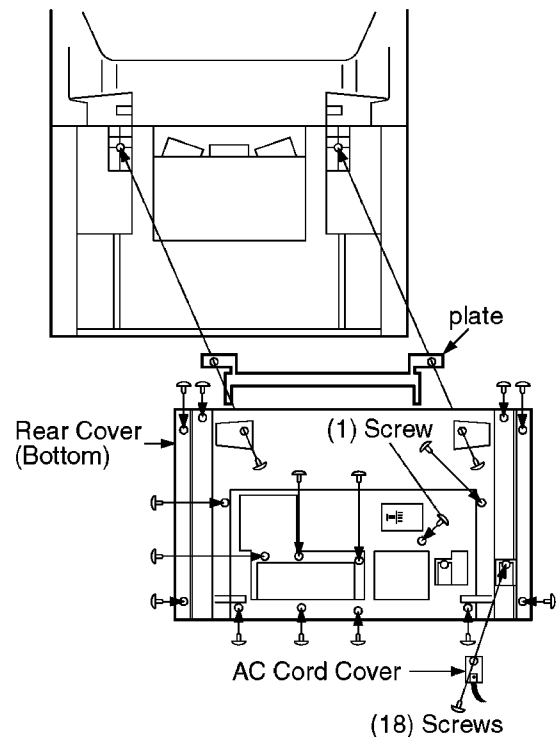
2. Remove (2) screws.



### 3.9. Rear Cover (Bottom)

1. Remove (18) screws.

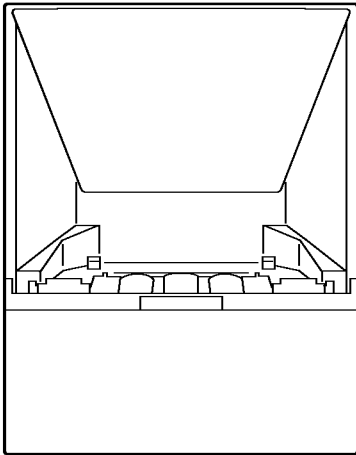
2. Remove (1) screw.



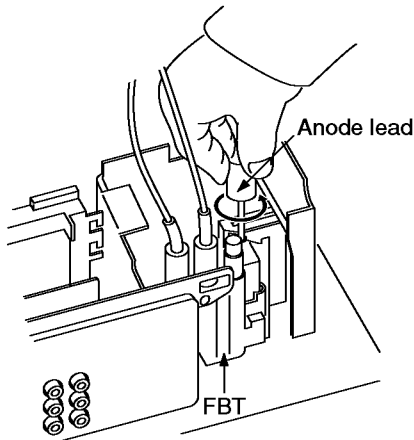
### 3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

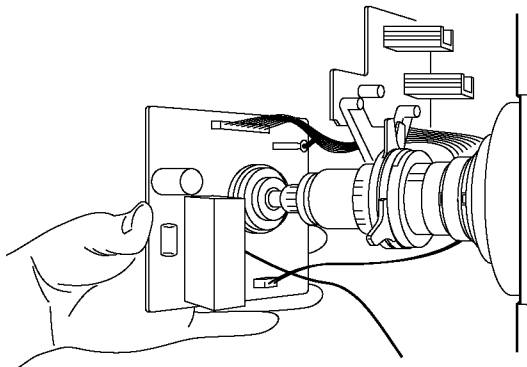
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. ( See Disassemble for Service ).



2. From the Rear side, remove the defective CRT's anode lead from the Flyback Transformer block that is mounted secured to the Main chassis E-Board.
3. Grasp the anode lead protective cap body inside, and rotate 1/4 turn counter clockwise and pull anode lead sleeve out of the distributor.
4. **Discharge anode lead to CRT chassis metal frame.**

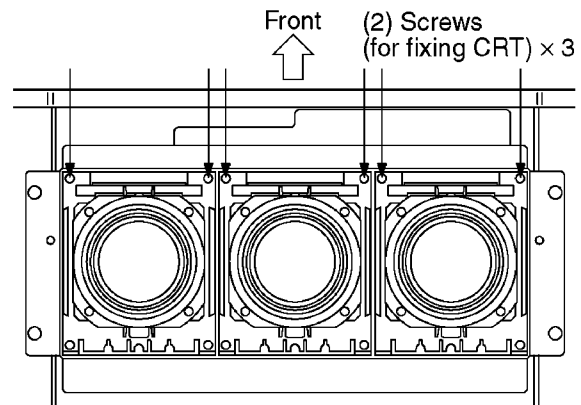


5. Unplug the defective CRT Dag ( GND ), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
6. Remove lead wires ( DY, VM coil ) and anode lead wire from holders as necessary.
7. Remove the CRT Board from the defective CRT neck.

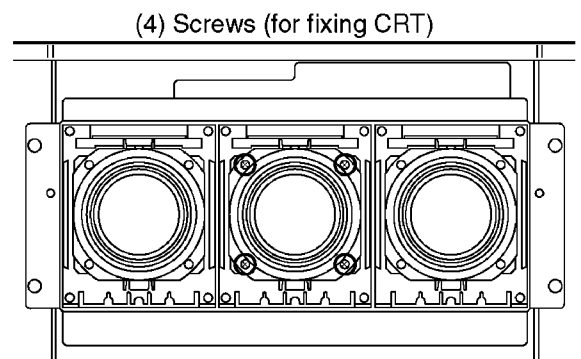


8. Note position of yoke with centering tabs and remove from defective CRT.

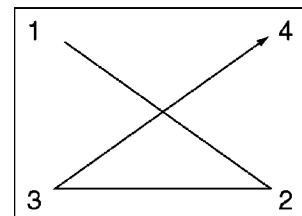
9. From the Top, remove (2) screws from the defective CRT.



10. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
11. Wire the anode lead wire.
12. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
13. Lay CRT face down on a soft cloth.
14. Remove CRT lens by removing (4) screws.



15. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
16. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
17. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



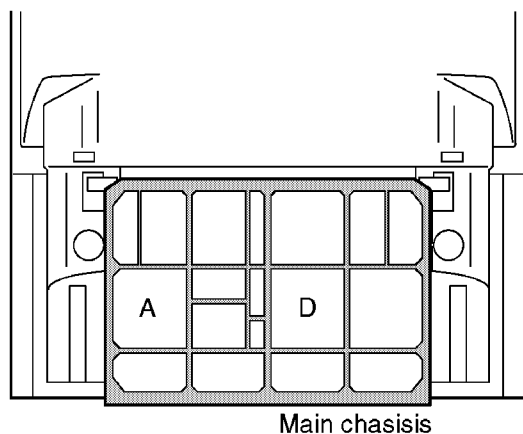
**Note:**

Please assemble with screws in the order shown in detail and tighten with same torque.

## 4 Service Hints

### 4.1. Service position for Main chassis

1. Remove the Rear Cover (Bottom) by removing (19) screws around its perimeter.
2. Remove lead wires and bundles from holders as necessary.
3. Pull out main chassis and stand it.

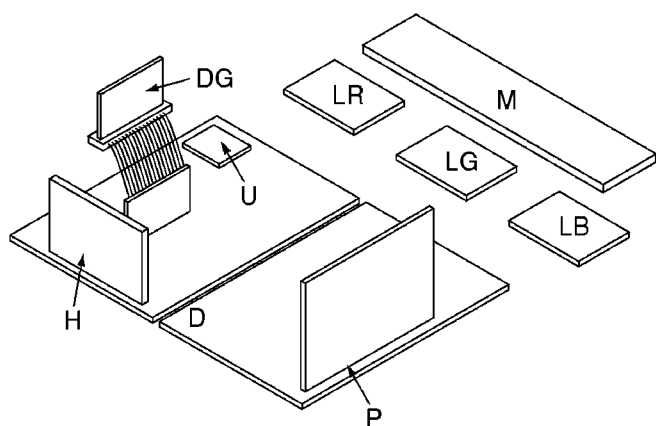


### 4.2. Service Position for DG-Board

1. Remove the each circuit board from A or D-Board.
2. Connect extension cables between individual circuit board and A or D-Board.

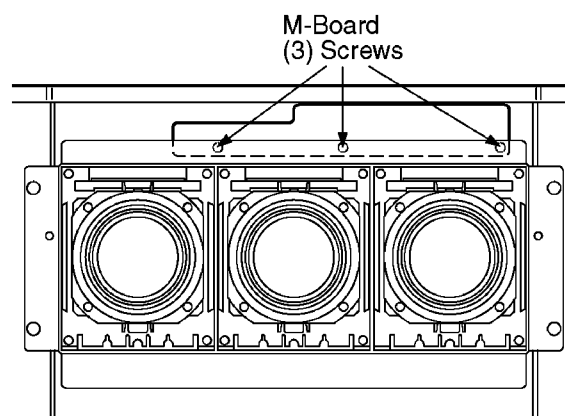
**Note:**

Extension cable kit is supplied as service fixtures and tools.  
(Part No. TZSC0724)



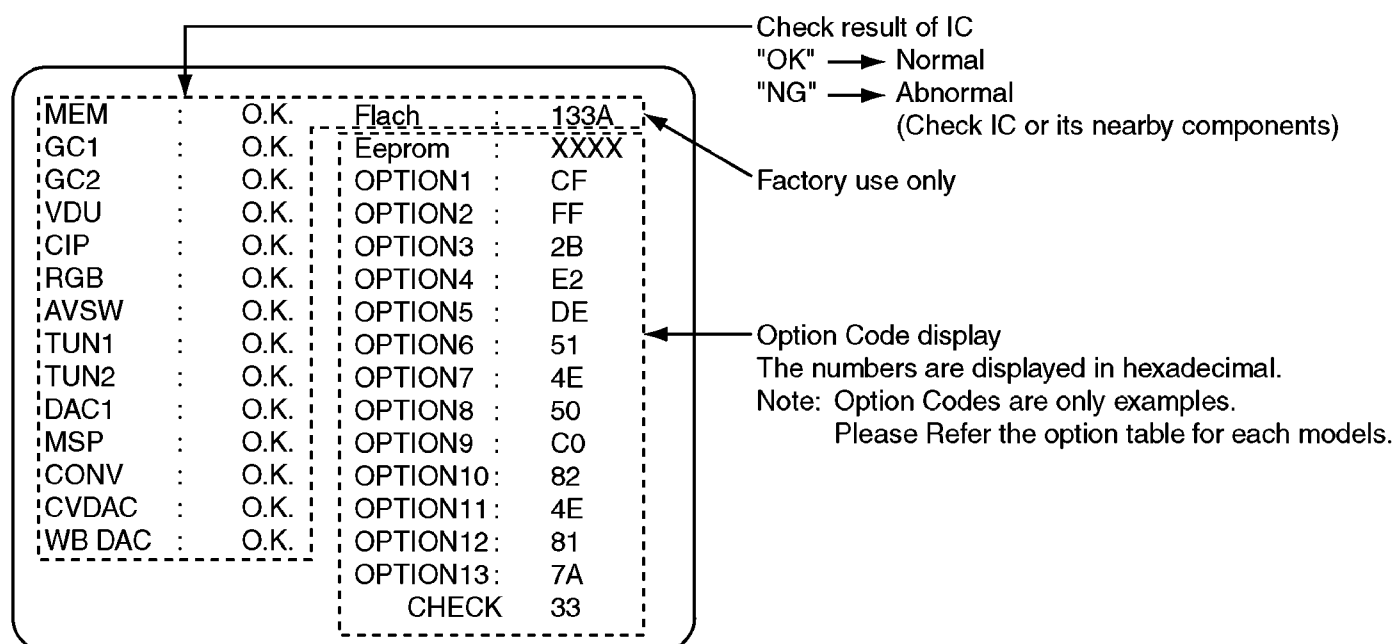
### 4.3. Service Position for M-Board

1. Remove the Top Cabinet Ass'y.
2. Remove M-Board by removing (3) screws.



## 5 Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the down (—/√) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

| Display | Ref. No. | Description         | P.C.B.   |
|---------|----------|---------------------|----------|
| MEM     | IC1104   | Memory              | A-Board  |
| GC1     | IC1301   | Global core IC Main | DG-Board |
| GC2     | IC1304   | Global core IC Sub  | DG-Board |
| VDU     | IC1305   | Video Processor     | DG-Board |
| CIP     | IC1303   | CIP                 | DG-Board |
| RGB     | IC1315   | RGB Processor       | A-Board  |
| AVSW    | IC3001   | AV SW               | A-Board  |
| TUN1    | TNR001   | Tuner Main          | A-Board  |
| TUN2    | TNR002   | Tuner Sub           | A-Board  |
| DAC1    | IC1253   | DAC control         | A-Board  |
| MSP     | IC2001   | Stereo Decoder      | A-Board  |
| CONV    | IC7107   | CONVERGENCE         | A-Board  |
| CVDAC   | IC7121   | Conv. DAC           | A-Board  |
| WB DAC  | IC7702   | WB DAC Control      | A-Board  |

## 6 Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

### 6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [ - ] on the TV set.

### 6.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

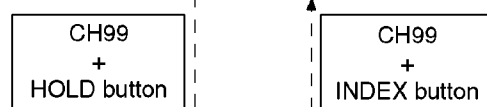
#### Note:

To exit to Service mode, press N or Power button on remote control.

#### SERVICE 1

| Function       | Average Data | Function           | Average Data |
|----------------|--------------|--------------------|--------------|
| H-Pos          | 86           | Sub SECAM B-Y      | 187          |
| V-Pos          | 97           | Sub SECAM R-Y      | 72           |
| H-Amp          | 57           | Video Gain 2       | 145          |
| V-Amp          | 184          | DAF-H-PARA         | 287          |
| Parabola       | 38           | DAF V-SAW          | 9            |
| Trapezoid      | 124          | DAF V-PARA         | 28           |
| H-Parallel     | 8            | Coarse Convergence | Access       |
| V-Linear       | 34           | Fine Convergence   | Access       |
| Top-Corner     | 20           |                    |              |
| Bottom-Corner  | 21           |                    |              |
| V-S-Correct    | 10           |                    |              |
| C-Correct      | 3            |                    |              |
| G-LIMIT        | 135          |                    |              |
| B-LIMIT        | 130          |                    |              |
| WB-B-G-ST1     | 109          |                    |              |
| R High(Drive)  | 0138         |                    |              |
| G High(Drive)  | 0128         |                    |              |
| B High(Drive)  | 0128         |                    |              |
| R Low(Cut off) | 0627         |                    |              |
| G Low(Cut off) | 0640         |                    |              |
| B Low(Cut off) | 0697         |                    |              |
| Sub-Bright     | 28           |                    |              |
| RF AGC 1       | 17           |                    |              |
| Sub-Contrast   | 58           |                    |              |
| Sub-Colour     | 65           |                    |              |
| Sub-NTSC Tint  | -1           |                    |              |
| SECAM B-Y      | 189          |                    |              |
| SECAM R-Y      | 68           |                    |              |
| RF AGC 2       | 19           |                    |              |
| Sub-NTSC Tint2 | 4            |                    |              |
| SPL, Gain      | 0            |                    |              |

- Press the RED/GREEN button to step up/down through the functions.
  - Press the YELLOW/BLUE button to change the function values.
  - Press the STR button after each adjustment has been made to store the required values.
- ① Set the Aspect mode 16:9.
    - a. Receive PAL signal and adjust each item.
    - b. Next, receive NTSC signal and adjust each time.
  - ② Set the Aspect mode 4:3.
    - a. Receive PAL signal and confirm the picture.  
Adjust each item if necessary.
    - b. Next, receive NTSC signal and confirm the picture.  
Adjust each item if necessary.



#### SERVICE 2

| Function  |    | Function  |    |
|-----------|----|-----------|----|
| Y/C Delay | 11 | OPTION 8  | 50 |
| OPTION 1  | CF | OPTION 9  | C0 |
| OPTION 2  | FF | OPTION 10 | 82 |
| OPTION 3  | 2B | OPTION 11 | 4E |
| OPTION 4  | E2 | OPTION 12 | 81 |
| OPTION 5  | DE | OPTION 13 | 7A |
| OPTION 6  | 51 | Hours     |    |
| OPTION 7  | 4E |           |    |



### 6.3. Option Description

| Options | HM<br>HZ | X  | H<br>G | HQ |   | ASIA             |                                                          |
|---------|----------|----|--------|----|---|------------------|----------------------------------------------------------|
| option1 | CF       | CF | CF     | CF |   |                  |                                                          |
| 0E0     | b0       | 1  | 1      | 1  | 1 | Colour system    | Auto(1)                                                  |
|         | b1       | 1  | 1      | 1  | 1 |                  | SECAM(1)                                                 |
|         | b2       | 1  | 1      | 1  | 1 |                  | NTSC(1)                                                  |
|         | b3       | 1  | 1      | 1  | 1 |                  | M.NTSC(1)                                                |
|         | b4       | 0  | 0      | 0  | 0 | TV NTSC 50       | Reserved                                                 |
|         | b5       | 0  | 0      | 0  | 0 | TV SECAM 60      | Reserved                                                 |
|         | b6       | 1  | 1      | 1  | 1 | AV NTSC 50       | Reserved                                                 |
|         | b7       | 1  | 1      | 1  | 1 | AV SECAM 60      | Reserved                                                 |
| option2 | FF       | FF | FF     | FF |   |                  |                                                          |
| 0E1     | b0       | 1  | 1      | 1  | 1 | CH Plan          | ASIA / M.E. / HK / UK / CHINA(1)                         |
|         | b1       | 1  | 1      | 1  | 1 |                  | NZ/INDNES(1)                                             |
|         | b2       | 1  | 1      | 1  | 1 |                  | AUSTRALIA(1)                                             |
|         | b3       | 1  | 1      | 1  | 1 |                  | E.EUROPE(1)                                              |
|         | b4       | 1  | 1      | 1  | 1 |                  | SPECIAL(1)                                               |
|         | b5       | 1  | 1      | 1  | 1 |                  | AMERICA(1)                                               |
|         | b6       | 1  | 1      | 1  | 1 |                  | CATV(1)                                                  |
|         | b7       | 1  | 1      | 1  | 1 |                  | JAPAN(1)                                                 |
| option3 | 2B       | 2B | 2B     | 2B |   |                  |                                                          |
| 0E2     | b0       | 1  | 1      | 1  | 1 | sub picture      | without sub-picture(0), with sub-picture(1)              |
|         | b1       | 1  | 1      | 1  | 1 | 2tuner           | 2tuner(1), 1tuner(0)                                     |
|         | b2       | 0  | 0      | 0  | 0 | VGA              | enable(1)                                                |
|         | b3       | 1  | 1      | 1  | 1 | YUV              | enable(1)                                                |
|         | b4       | 0  | 0      | 0  | 0 | CRT              | 16:9(1), 4:3(0) (change multi window / aspect operation) |
|         | b5       | 1  | 1      | 1  | 1 | HYPER            | UHF only (0), UHF/VHF (1)                                |
|         | b6       | 0  | 0      | 0  | 0 | SIF              | 4.5 / 5.5 / 6.0 / 6.5(0), 5.5 / 6.0 / 6.5(1)             |
|         | b7       | 0  | 0      | 0  | 0 |                  | 5.5 / 6.5(2), 6.0 / 6.5(3)                               |
| option4 | E2       | E2 | E2     | E2 |   |                  |                                                          |
| 0E3     | b0       | 0  | 0      | 0  | 0 | A2 enable        | 4.5(1)                                                   |
|         | b1       | 1  | 1      | 1  | 1 |                  | 5.5(1)                                                   |
|         | b2       | 0  | 0      | 0  | 0 |                  | 6.0(1)                                                   |
|         | b3       | 0  | 0      | 0  | 0 |                  | 6.5(1)                                                   |
|         | b4       | 0  | 0      | 0  | 0 | NICAM enable     | 4.5(1)                                                   |
|         | b5       | 1  | 1      | 1  | 1 |                  | 5.5(1)                                                   |
|         | b6       | 1  | 1      | 1  | 1 |                  | 6.0(1)                                                   |
|         | b7       | 1  | 1      | 1  | 1 |                  | 6.5(1)                                                   |
| option5 | DE       | DE | DE     | DE |   |                  |                                                          |
| 0E4     | b0       | 0  | 0      | 0  | 0 | A2 select 6.5MHz | 5.742MHz(0) 6.742MHz(1)                                  |
|         | b1       | 1  | 1      | 1  | 1 | NICAM priority   | ASIA / M.E.(1)                                           |
|         | b2       | 1  | 1      | 1  | 1 |                  | HK / UK(1)                                               |
|         | b3       | 1  | 1      | 1  | 1 |                  | CHINA(1)                                                 |
|         | b4       | 1  | 1      | 1  | 1 |                  | NZ / INDN(1)                                             |
|         | b5       | 0  | 0      | 0  | 0 |                  | AUSTRA(1)                                                |
|         | b6       | 1  | 1      | 1  | 1 |                  | E.EURO(1)                                                |
|         | b7       | 1  | 1      | 1  | 1 |                  | SPECIAL(1)                                               |

| Options  | HM<br>HZ | X  | H<br>G | HQ |                      | ASIA                                                      |
|----------|----------|----|--------|----|----------------------|-----------------------------------------------------------|
| option6  | 51       | 51 | 51     | D1 |                      |                                                           |
| 0E5      | b0       | 1  | 1      | 1  | VCR/GAME in search   | On(0) Off(1)                                              |
|          | b1       | 0  | 0      | 0  | SASO enable          | SASO enable(1)                                            |
|          | b2       | 0  | 0      | 0  | Noise mute           | Noise mute enable(0)                                      |
|          | b3       | 0  | 0      | 0  | Monitor out AV1 mute | Monitor out AV1 mute(1)                                   |
|          | b4       | 1  | 1      | 1  | AV SW 3/2AV out      | CXA2069Q(1) CXA2079Q(0)                                   |
|          | b5       | 0  | 0      | 0  | Tuner                | MACO tuner(0), ALPS tuner(1)                              |
|          | b6       | 1  | 1      | 1  | Child lock           | Child lock enable(1)                                      |
|          | b7       | 0  | 0      | 0  | No motion control    | No motion control in film mode(1)                         |
| option7  | 4E       | 4E | 4E     | 4E |                      |                                                           |
| 0E6      | b0       | 0  | 0      | 0  | Power up EC-Mode     | Power on EC enable (1)                                    |
|          | b1       | 1  | 1      | 1  | CH Blanking          | Blanking enable(1)                                        |
|          | b2       | 1  | 1      | 1  | AV Blanking          | Blanking enable(1)                                        |
|          | b3       | 1  | 1      | 1  | Auto WIDE            | WSS enable only in aspect Auto (0), WSS always enable (1) |
|          | b4       | 0  | 0      | 0  | Volume correction    | TV Volume correction enable(1)                            |
|          | b5       | 0  | 0      | 0  | AVLink               | Q-Link on/off selectable in menu(1)                       |
|          | b6       | 1  | 1      | 1  | MPX/NICAM display    | Display NICAM(0), Display MPX(1)                          |
|          | b7       | 0  | 0      | 0  | free                 |                                                           |
| option8  | 50       | 50 | 50     | D0 |                      |                                                           |
| 0E7      | b0       | 0  | 0      | 0  | Teletext CH Refrech  | enable (1)                                                |
|          | b1       | 0  | 0      | 0  | Geomagnetic Sensor   | Geomagnetic sensor enable(1)                              |
|          | b2       | 0  | 0      | 0  | Geomagnetic Polarity | Geomagnetic polarity +(0), -(1)                           |
|          | b3       | 0  | 0      | 0  | attenuater menu      | Enable (1)                                                |
|          | b4       | 1  | 1      | 1  | Fine tuning          | Enable(1)                                                 |
|          | b5       | 0  | 0      | 0  | Search speed         | Slow(1) Fast(0)                                           |
|          | b6       | 1  | 1      | 1  | TEXT FLOF            | Reserved                                                  |
|          | b7       | 0  | 0      | 0  | TEXT TOP             | TOP enable(1)                                             |
| option9  | C0       | C0 | C0     | C0 |                      |                                                           |
| 0E8      | b0       | 0  | 0      | 0  | Dolby                | Dolby enable (1)                                          |
|          | b1       | 0  | 0      | 0  | 3D Subwoofer         | Subwoofer enable(1) Dolby model should be 0.              |
|          | b2       | 0  | 0      | 0  | Optical 2 inputs     | Optical 1 input(0), 2 inputs(1)                           |
|          | b3       | 0  | 0      | 0  | free                 |                                                           |
|          | b4       | 0  | 0      | 0  | free                 |                                                           |
|          | b5       | 0  | 0      | 0  | SL SR PHASE          | NON REVERSE(0), REVERSE(1)                                |
|          | b6       | 1  | 1      | 1  | Volume curve         | Volume curve1(0), curve2(1)                               |
|          | b7       | 1  | 1      | 1  | Volume EXDAC         | Add Volume control by EXDAC(1)                            |
| option10 | 88       | 82 | 88     | 88 |                      |                                                           |
| 0E9      | b0       | 0  | 0      | 0  | free                 |                                                           |
|          | b1       | 0  | 1      | 0  | OSD language         | Arabic enable(1)                                          |
|          | b2       | 0  | 0      | 0  |                      | Russian enable(1)                                         |
|          | b3       | 1  | 0      | 1  |                      | Chinese enable(1)                                         |
|          | b4       | 0  | 0      | 0  | Blue Back            | enable(0)                                                 |
|          | b5       | 0  | 0      | 0  | BC Safety            | Reserved                                                  |
|          | b6       | 0  | 0      | 0  | Protect XPR          | Reserved                                                  |
|          | b7       | 1  | 1      | 1  | Protect 5V detect    | Protection input enable(1)                                |

| Options Model | HM HZ | X  | H G | HQ |                     | ASIA                                                                 |
|---------------|-------|----|-----|----|---------------------|----------------------------------------------------------------------|
| option11      | 4E    | 4E | 4E  | 4E |                     |                                                                      |
| 0EA           | b0    | 0  | 0   | 0  | Shop mode           | Max contrast(1), Normal(0)                                           |
|               | b1    | 1  | 1   | 1  | DDM/Dynamic display | Reserved                                                             |
|               | b2    | 1  | 1   | 1  | Sub Headphone       | enable(1)                                                            |
|               | b3    | 1  | 1   | 1  | Scan mode Blanking  | Blanking enable(1)                                                   |
|               | b4    | 0  | 0   | 0  | User aspect 14:9    | enable(1)                                                            |
|               | b5    | 0  | 0   | 0  | NICAM C4 bit        | enable(1)                                                            |
|               | b6    | 1  | 1   | 1  | ID-1                | enable(1)                                                            |
|               | b7    | 0  | 0   | 0  | 1080I               | enable(1)                                                            |
| option12      | 81    | 81 | 81  | 83 | Area Option         |                                                                      |
| 0EB           | b0    | 1  | 1   | 1  | Asia                | Asia(1), europe(0)                                                   |
|               | b1    | 0  | 0   | 0  | Australia           | Australia(1)                                                         |
|               | b2    | 0  | 0   | 0  | Ireland             | not use                                                              |
|               | b3    | 0  | 0   | 0  | UK                  | not use                                                              |
|               | b4    | 0  | 0   | 0  | MELCOA              | MELCOA(1)                                                            |
|               | b5    | 0  | 0   | 0  | 28 inch             | 28 inch(1) when only Large size=0, Wide=1, PTV=0                     |
|               | b6    | 0  | 0   | 0  | LED                 | 52(1) / 42(0) for PTV, 36(1) / 32(0) for Wide, 34(1) / 29(0) for 4:3 |
|               | b7    | 1  | 1   | 1  | PTV                 | PTV(1)                                                               |
| option13      | 7A    | 7A | 72  | 7A | Temporary           |                                                                      |
| 0EC           | b0    | 0  | 0   | 0  | VDU Version         | A21(0), A12(1)                                                       |
|               | b1    | 1  | 1   | 1  | GC Version          | ES5(0), ES6(1)                                                       |
|               | b2    | 0  | 0   | 0  | UV Swap             | Swap(1)                                                              |
|               | b3    | 1  | 1   | 0  | TEXT                | Enable(1)                                                            |
|               | b4    | 1  | 1   | 1  | Main GC ES7         | ES7(1), ES5/6(0)                                                     |
|               | b5    | 1  | 1   | 1  | Sub GC ES7          | ES7(1), ES5/6(0)                                                     |
|               | b6    | 1  | 1   | 1  | Picture Shift       | ON(1), OFF(0)                                                        |
|               | b7    | 0  | 0   | 0  | CIP2                | without CIP1(0), with CIP1(1)                                        |

## 7 CRT Set Up

### Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

### 7.1. Dynamic Focus Adjustment

1. Focus adjustments should be performed after 1 hour of aging.
2. Use oscilloscope with 100 : 1 probe.
3. Apply monoscope pattern.
4. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)

Focus Pack

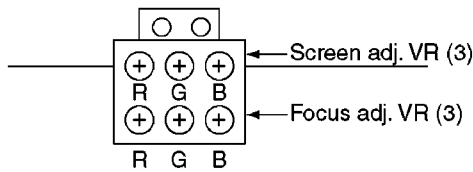


Fig. 2

5. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
6. Adjust V-PARA (Service mode1) so that waveform (A) is  $380V \pm 20V$ . (Fig. 3)
7. Adjust H-PARA (Service mode1) so that waveform (B) is  $560V \pm 40V$ . (Fig. 3)

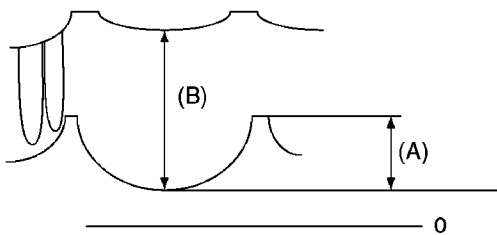


Fig. 3

8. Proceed with Focus Adjustments.

### 7.2. Electrical Focus Adjustment

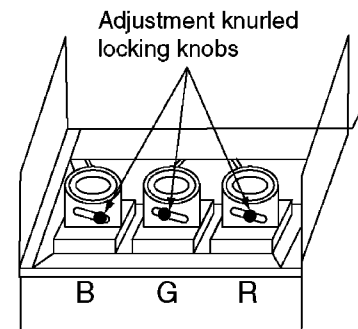
1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.  
The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

### 7.3. Optical Lens Focus Adjustment

#### Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurled locking knob. (Fig. 4)



Optical lens focus adjustment

Fig. 4 (Rear view)

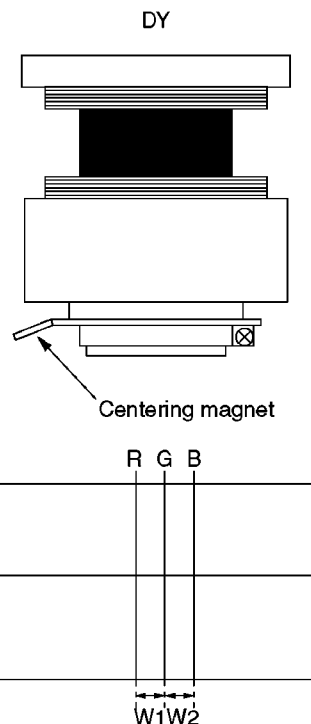
2. Turn the Receiver ON apply and view a monoscope pattern.
3. Adjust each lens focus for best focus while viewing each CRT.
4. Cover the Red and Blue CRT, projecting green only. Rotate the Green lens for best focus around screen center area.
5. Do the same for the Red focus lens while projecting Red only.
6. Repeat for Blue.

## 7.4. Centering Magnet Adjustment

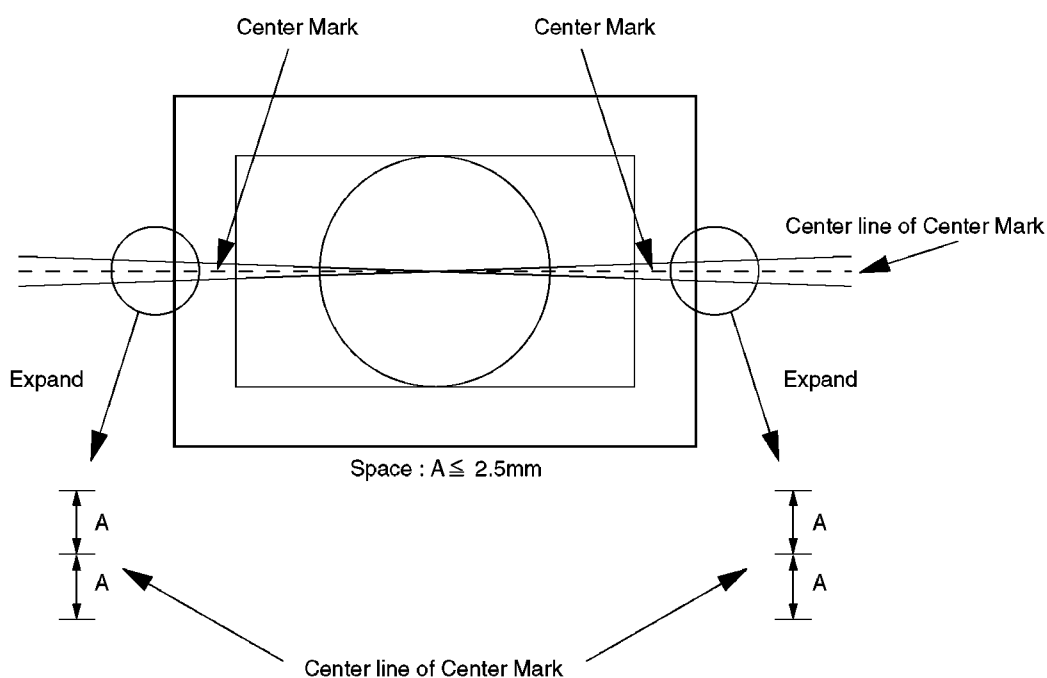
1. Receive a monoscope pattern.
2. Confirm that Coarse convergence data (Service mode1) for R,G and B is 0.
3. Set that Fine convergence data (Service mode1) is clear (no correction).
4. Set that V-Pos data (Service mode1) is [100].
5. Set that H-Pos data (Service mode1) is [55].
6. Set that H-Parallel data (Service mode1) is [8].

### Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.
2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
3. Cover the Green, Red CRT lens, projecting Blue only.
4. Repeat step 2. for blue.
5. Cover the Green, Blue CRT lens, projecting Red only.
6. Repeat step 2. for red.
7. Cover the Red, Blue CRT lens, projecting Green only.
8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
9. Cover the Green, Red CRT lens, projecting Blue only.
10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
11. Cover the Green, Blue CRT lens, projecting Red only.
12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.



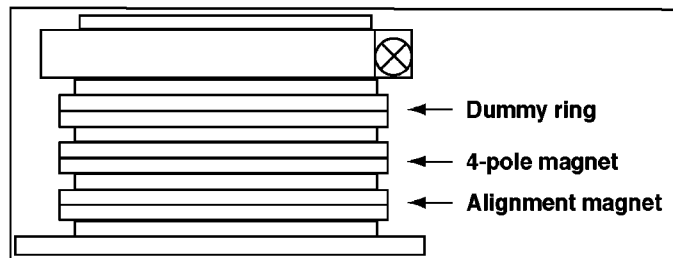
|        |                                                |
|--------|------------------------------------------------|
| 51inch | W1=17.5mm $\pm$ 2.5mm<br>W2=17.5mm $\pm$ 2.5mm |
| 43inch | W1=10.0mm $\pm$ 2.0mm<br>W2=10.0mm $\pm$ 2.0mm |



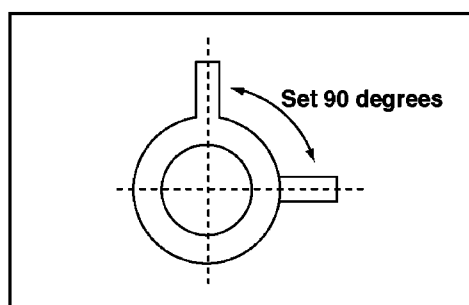
## 7.5. Alignment magnet Adjustment

### Preparation:

1. Receive an cross hatch pattern with dots (pincushion).
2. Loosen the centering magnets screws.
3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

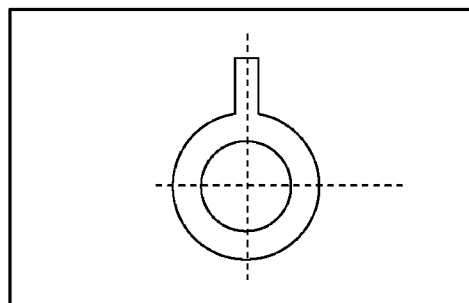


VM Coil with focus correction magnet



4-pole magnet

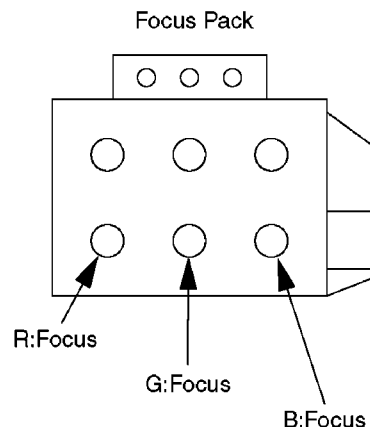
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.



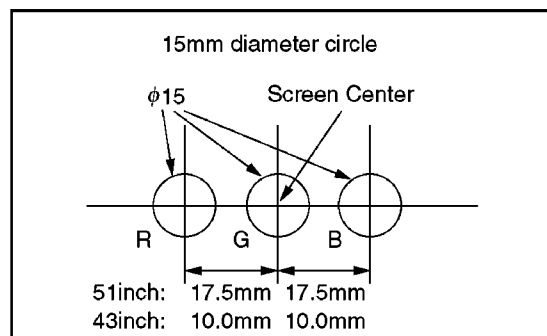
Alignment magnet (or dummy ring)

### Procedure:

1. Receive an cross hatch pattern with dots.
2. Cover the Red, Blue CRT lens, projecting Green only.
3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
4. Turn the green electrical focus adjustment VR fully clockwise.
5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
6. Adjust for best green electrical focus with green electrical focus adjustment VR.
7. Cover the Green, Red CRT lens, projecting Blue only.
8. Repeat step 4. ~ step 6. for blue electrical focus.
9. Cover the Green, Blue CRT lens, projecting Red only.
10. Repeat step 4. ~ step 6. for red electrical focus.



11. Receive an monoscope pattern.
12. Cover the Red, Blue CRT lens, projecting Green only.
13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)



Centering magnet adjustment

14. Cover the Green, Blue CRT lens, projecting Red only.
15. Repeat step 13. for the red.
16. Cover the Green, Red CRT lens, projecting Blue only.
17. Repeat step 13. for the blue.
18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

## 8 Deflection Adjustment

### Caution

1. The following adjustment have to be carried out one with **PAL signal (100i/50p)** and with **NTSC signal (60p/120i)** .
2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

### 8.1. PAL 100Hz mode (100i)

#### 8.1.1. Preparation

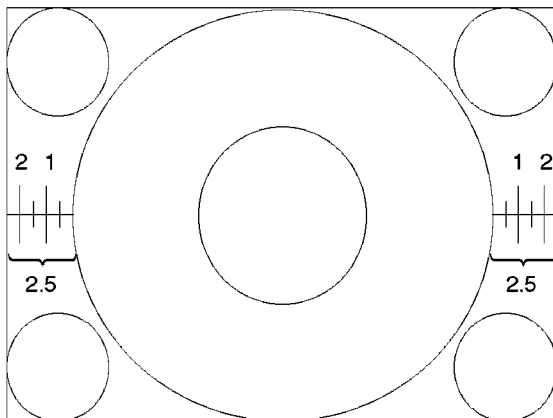
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

|            |     |               |    |
|------------|-----|---------------|----|
| H-Pos      | 55  | Top-Corner    | 21 |
| V-Pos      | 100 | Bottom-Corner | 21 |
| H-Parallel | 8   | V-S-Correct   | 10 |
| V-Linear   | 33  | C-Correct     | 4  |

6. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [ HELP ] button so that projecting Green only.

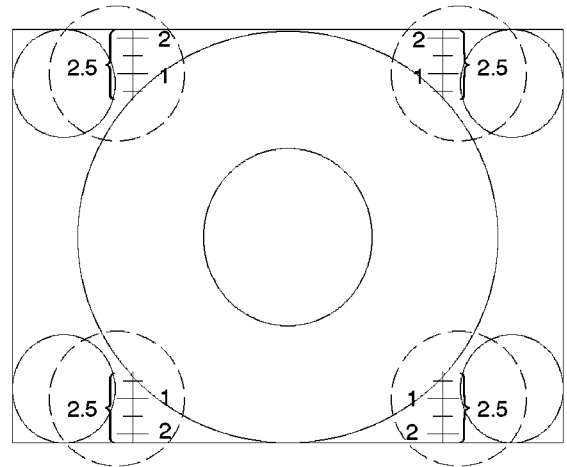
#### 8.1.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for  $2.5 \pm 0.1$  division of a scale by H-Amp control.

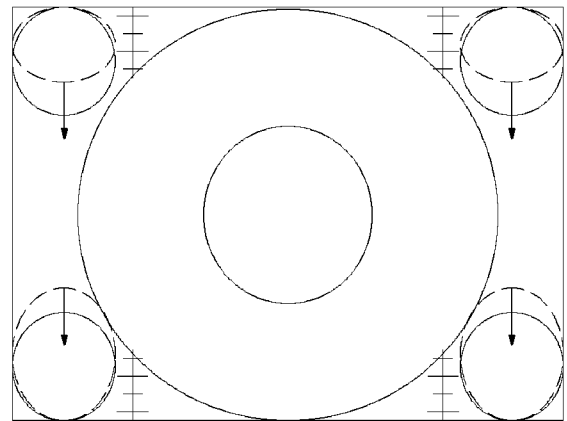


#### 8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.5 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

#### 8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.2. PAL Progressive mode (50p)

### 8.2.1. Preparation

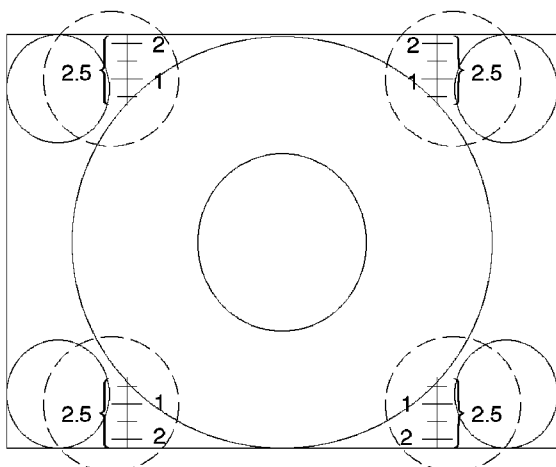
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

|            |    |               |    |
|------------|----|---------------|----|
| H-Parallel | 8  | Bottom-Corner | 21 |
| V-Linear   | 36 | V-S-Correct   | 10 |
| Top-Corner | 21 | C-Correct     | 5  |

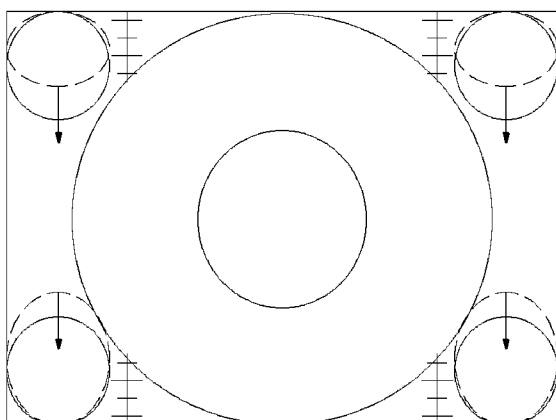
7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [ HELP ] button so that projecting Green only.

### 8.2.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.5 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

## 8.3. NTSC Progressive mode (60p)

### 8.3.1. Preparation

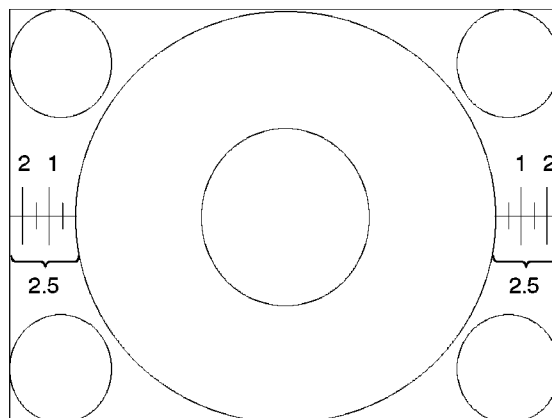
1. Receive NTSC monoscope pattern.
2. Set scan mode to Progressive.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

|            |    |               |    |
|------------|----|---------------|----|
| H-Parallel | 8  | Bottom-Corner | 21 |
| V-Linear   | 35 | V-S-Correct   | 10 |
| Top-Corner | 20 | C-Correct     | 4  |

6. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [ HELP ] button so that projecting Green only.

### 8.3.2. H-Pos and H-Amp Adjustment

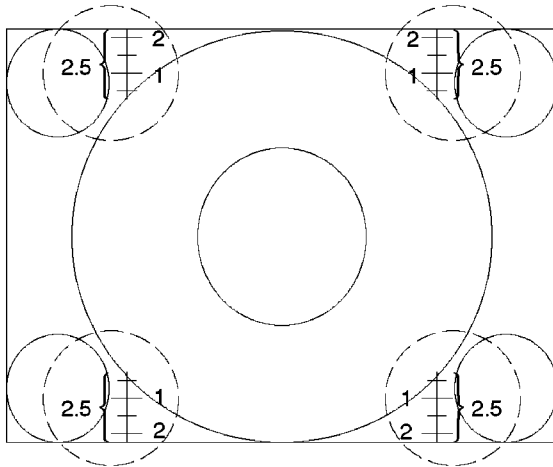
1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for  $2.5 \pm 0.1$  division of a scale by H-Amp control.



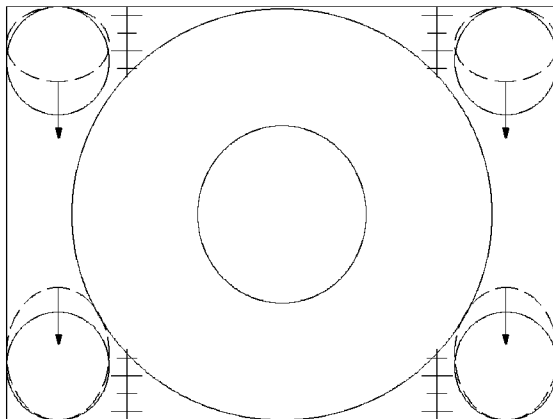


### 8.3.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.5 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

### 8.3.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.4. NTSC 120Hz mode (120i)

### 8.4.1. Preparation

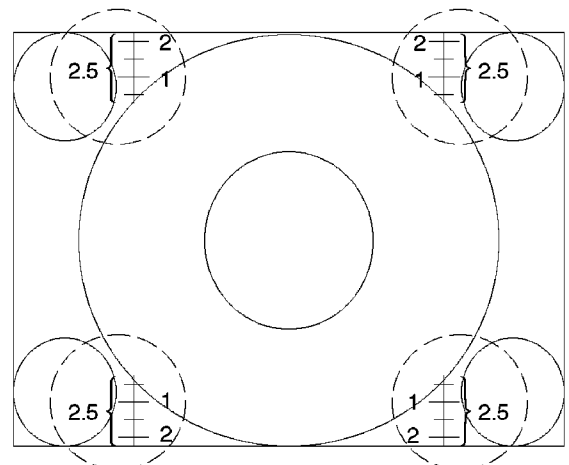
1. Receive PAL monoscope pattern.
2. Copy the Data of to NTSC Progressive mode (60p) to NTSC 120Hz mode (120i).
3. Set the Picture Menu to NORMAL.
4. Set scan mode to 120Hz.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

|            |    |               |    |
|------------|----|---------------|----|
| H-Parallel | 8  | Bottom-Corner | 21 |
| V-Linear   | 30 | V-S-Correct   | 10 |
| Top-Corner | 20 | C-Correct     | 4  |

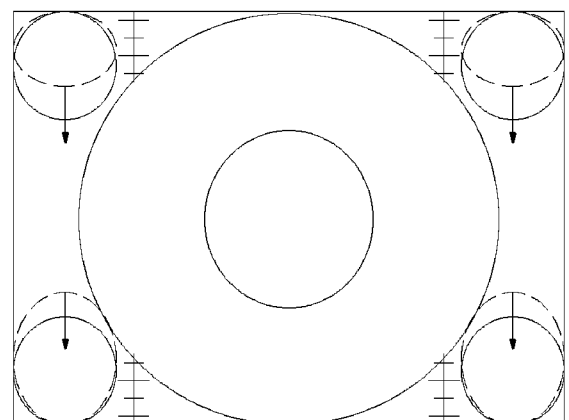
7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [ HELP ] button so that projecting Green only.

### 8.4.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.5 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

## **8.5. 525p Deflection Adjustment / Confirmation**

### **8.5.1. V / H-Deflection confirmation**

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

### **8.5.2. H-Pos confirmation / Adjustment**

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

## **8.6. 625p Deflection Adjustment / Confirmation**

### **8.6.1. V / H-Deflection confirmation**

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

### **8.6.2. H-Pos confirmation / Adjustment**

1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

## 9 Adjustment Procedure

### 9.1. SECAM Black Level Adjustment

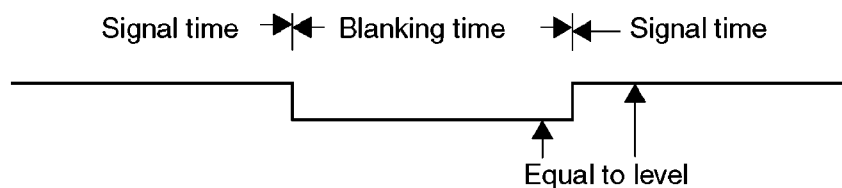
Preparation

Picture Menu: Dynamic

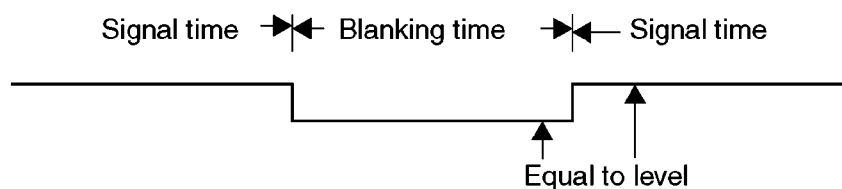
AI: ON

Adjustment

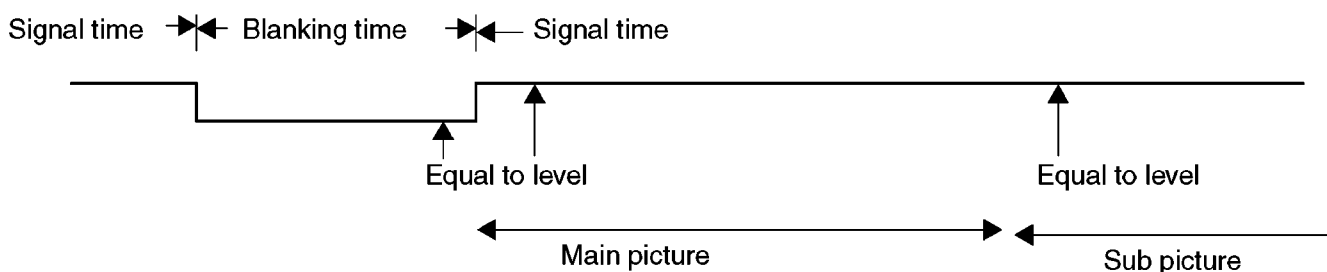
1. Receive SECAM white pattern.
2. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
3. Adjust SECAM B-Y so that H-blanking time and colour center are equal level.



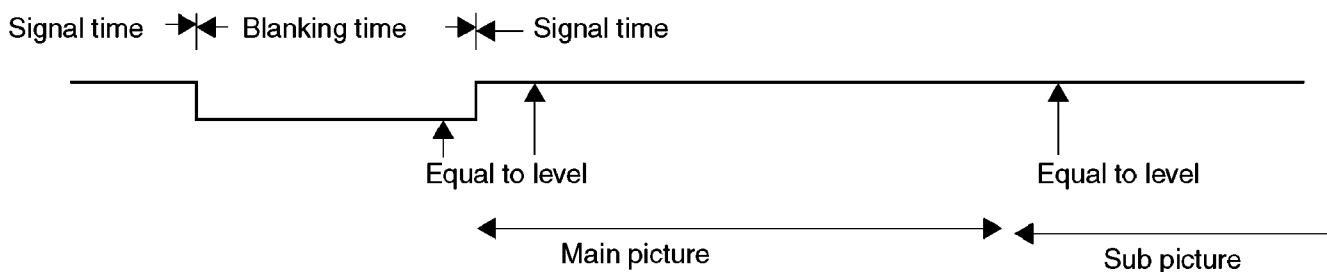
4. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
5. Adjust SECAM R-Y so that H-blanking time and colour center are equal level.



6. Connect an oscilloscope to A44 pin 39(B-Y OUT) on A-Board.
7. Adjust Sub SECAM B-Y so that H-blanking time and colour center are equal level.



8. Connect an oscilloscope to A44 pin 41(R-Y OUT) on A-Board.
9. Adjust Sub SECAM R-Y so that H-blanking time and colour center are equal level.



## 9.2. Cut off Adjustment

### Preparation

Picture Menu : Dynamic      WB-B-G-ST1 : 255

C Temp : Standard      High-RGB : 128

AI : ON      Low-RGB : 640

P-NR : ON      Cut off : A8

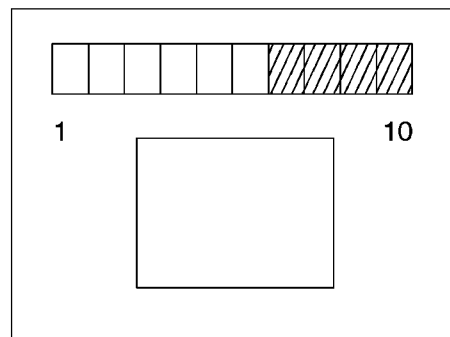
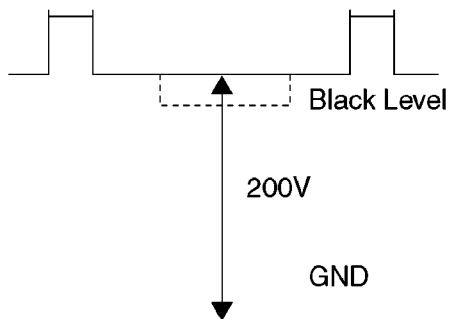
Scan Mode : 100Hz (PAL) G-Limit : 255

Screen VR : Full Counterclockwise      B-Limit : 255

### Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is  $200 \pm 2V$ .
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is  $200 \pm 2V$ .
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is  $200 \pm 2V$ .
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
12. It pushes and it makes a [HELP] key the project only of BLUE.
13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.

TPLG1/R1/B1



### 9.3. Sub Contrast / G-Limit Adjustment

#### Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-RGB : 640

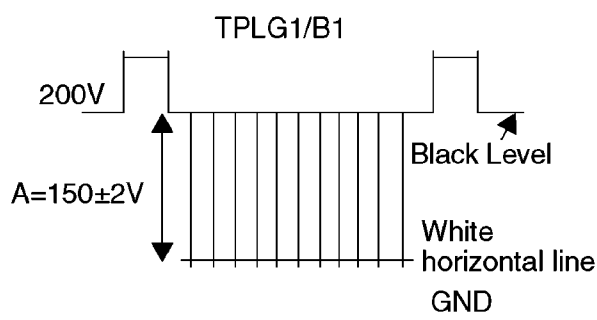
P-NR : ON G-Limit : 255

Scan Mode : 100Hz (PAL)

Cut off Adjustment has been adjusted

#### Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Contrast so that the waveform A is  $150 \pm 2V$ .
4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
5. Adjust G-Limit so that the waveform A is  $125 \pm 2V$ .



### 9.4. Sub Picture Contrast Adjustment

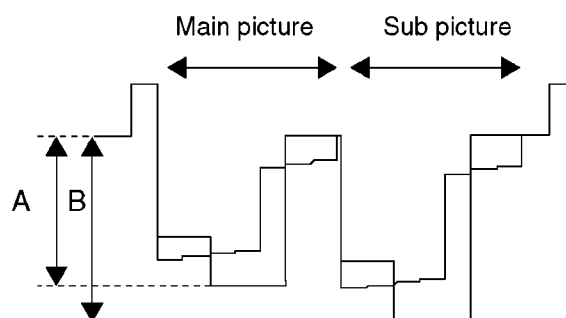
#### Preparation

Picture Menu : Dynamic

AI : ON

#### Adjustment

1. Receive a Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.



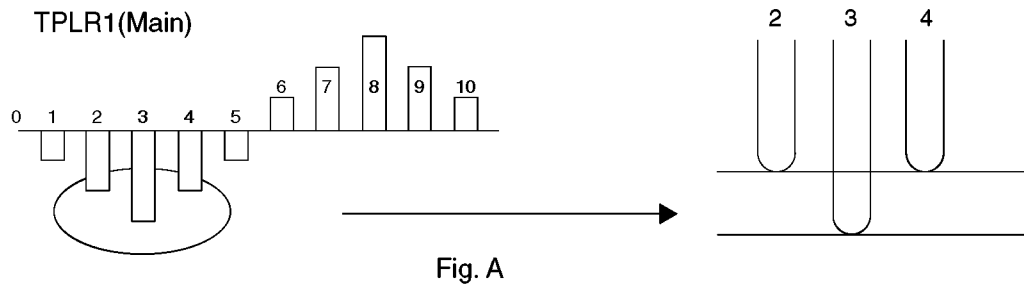
## 9.5. NTSC Tint Adjustment

### Preparation

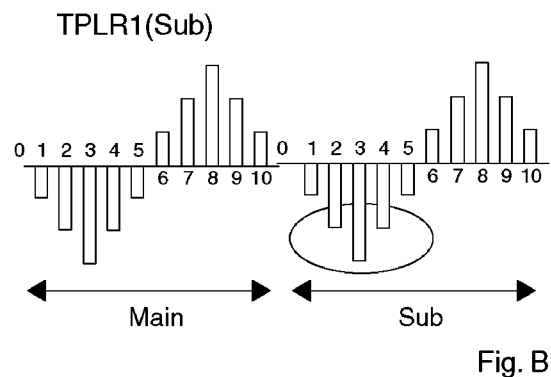
Picture Menu : Dynamic      P-NR : ON  
 C Temp : Standard      Scan Mode : 100Hz (PAL)  
 AI : ON

### Adjustment

1. Receive a Rainbow (NTSC 3.58Hz) pattern.
2. Connect an oscilloscope to TPLR1 on LR-Board.
3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.



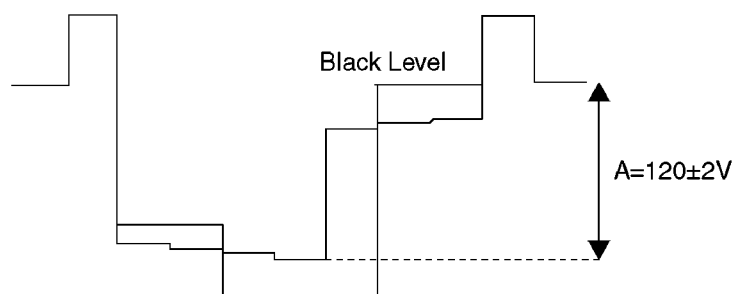
## 9.6. Sub Color Adjustment

### Preparation

Picture Menu : Dynamic      P-NR : ON  
 C Temp : Standard      Scan Mode : 100Hz (PAL)  
 AI : ON      ACL : OFF

### Adjustment

1. Receive a PAL Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Color so that the waveform A is  $120 \pm 2V$ .



## 9.7. Blue Focus / Gamma Adjustment

### Preparation

Picture Menu : Dynamic      WB-B-G-ST1 : 0

C Temp : Standard      B-Limit : 255

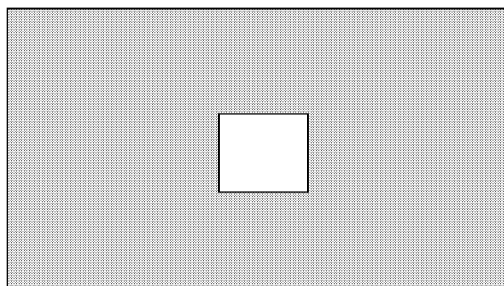
AI : ON

P-NR : ON

Scan Mode : 100Hz (PAL)

### Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Set the Sub Contrast and High-B to Max.
4. It pushes and it makes a [HELP] key the project only of BLUE.
5. Adjust Blue Focus VR so that Y is  $4.0 \pm \text{cd/m}^2$



## 9.8. White Balance Adjustment

### Preparation

Picture Menu : Dynamic      Sub Bright : 60

C Temp : Dynamic      High R : 90

AI : ON      High G : 128

P-NR : ON      High B : 90

Scan Mode : 100Hz (PAL)      WB-B-G-ST1 : 130

Low G : 640

### Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

| Mode | Bright<br>( $\text{cd/m}^2$ ) | Controle DAC name |            | Target (x)<br>(y) | C. Temp<br>(K)  | MPCD        |
|------|-------------------------------|-------------------|------------|-------------------|-----------------|-------------|
|      |                               | RED               | BLUE       |                   |                 |             |
| Hi   | 80                            | High R            | WB-B-G-ST1 | $0.270 \pm 0.005$ | $13000 \pm 500$ | $-5 \pm 5$  |
|      |                               |                   |            | $0.244 \pm 0.005$ |                 |             |
| Mid  | 20                            | ---               | High B     | $0.277$           | $11500 \pm 500$ | $-20 \pm 5$ |
|      |                               |                   |            | $0.244 \pm 0.005$ |                 |             |
| Low  | 1.8                           | Low R             | Low B      | $0.287 \pm 0.008$ | $9200 \pm 500$  | $-25 \pm 5$ |
|      |                               |                   |            | $0.240 \pm 0.008$ |                 |             |

## 9.9. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : ON

C Temp : Dynamic Scan Mode : 100Hz (PAL)

AI : ON

Cut off and White Balance Adjustment has been adjusted

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a PAL Window pattern.
3. Adjust Sub Bright so that the 7th paragraph shines faintly and the 8th paragraph does to the sinking style.

## 9.10. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic

C Temp : Standard

AI : ON

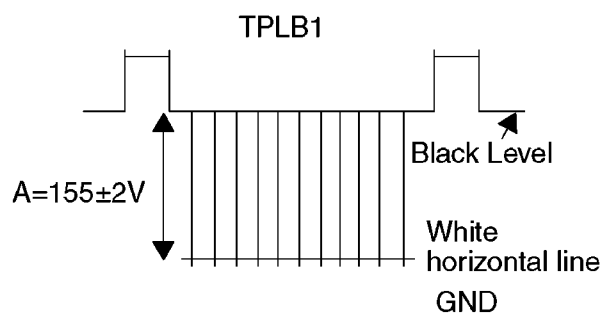
P-NR : ON

Scan Mode : 100Hz (PAL)

White Balance Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLB1 on LB-Board.
3. Adjust B-LIMIT so that the waveform A is  $155 \pm 2V$ .





# 10 Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment for NTSC mode.

## When replacing the following Parts.

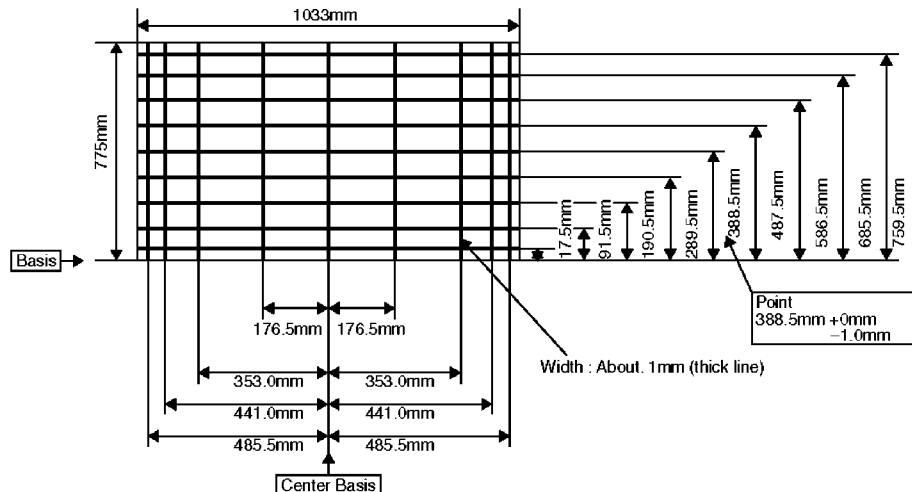
IC7101 (EEP-ROM in Digital Convergence Circuit)L551 (Pincushion Coil)High Voltage Producing PartsOther Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

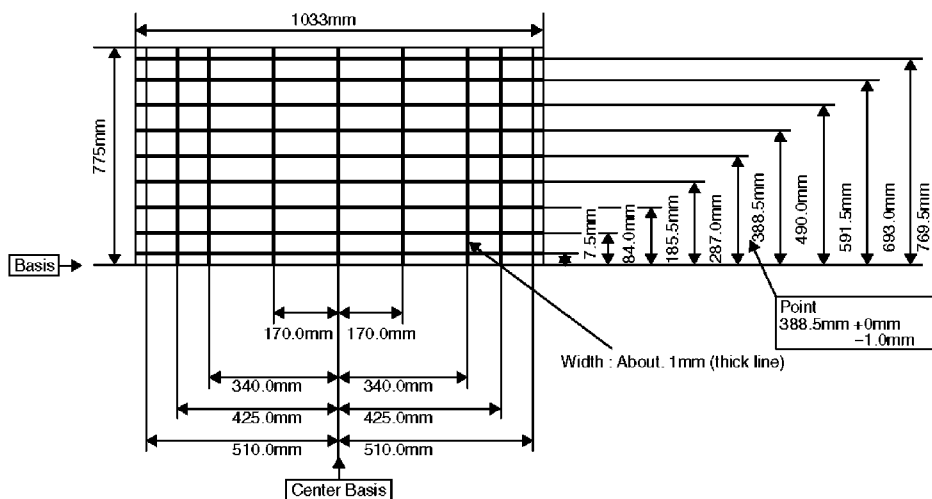
## When replacing one of the CRT's.

### 10.1. Convergence Adjustment Sheet

51 inch PAL (100i & 50p)



51 inch NTSC (120i & 60p)



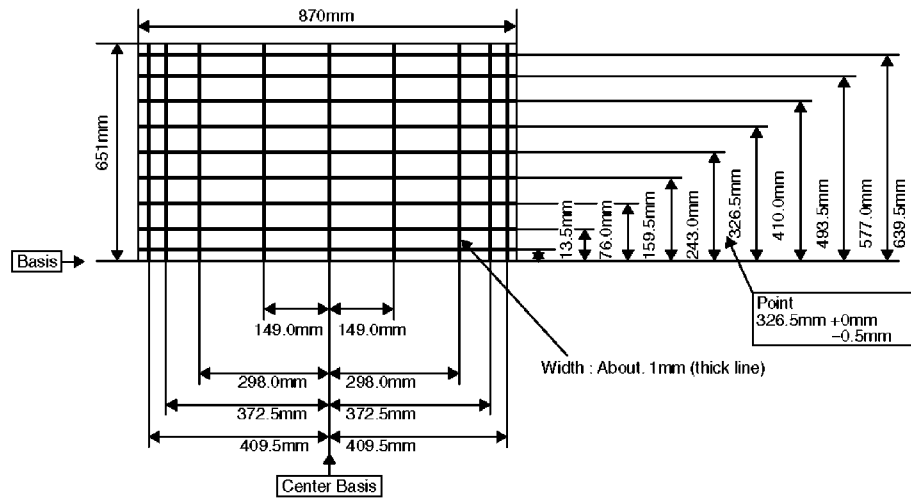
43 inch PAL (100i & 50p)

Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

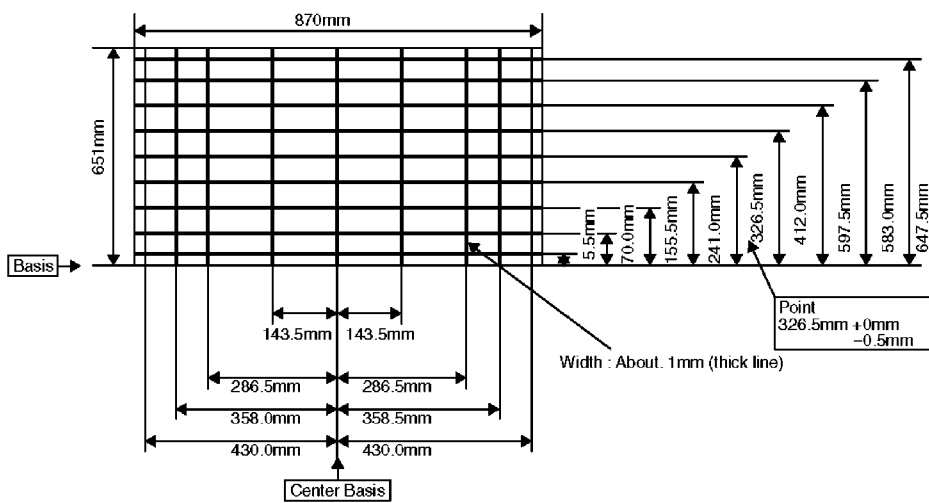
## Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure. Please refer to these. (Page 29 and 30)

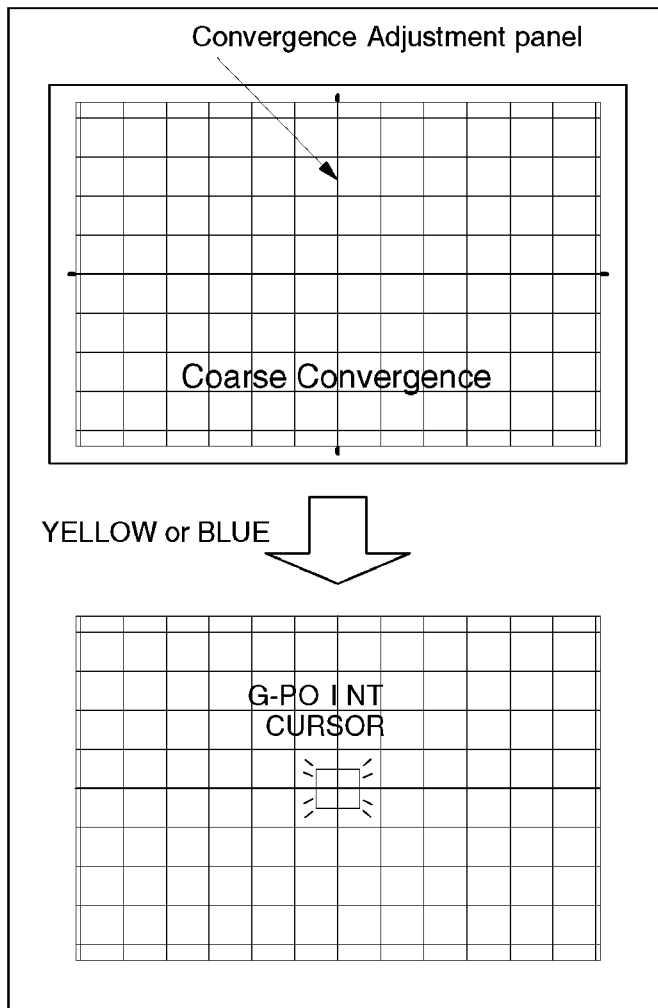


43 inch NTSC (120i & 60p)

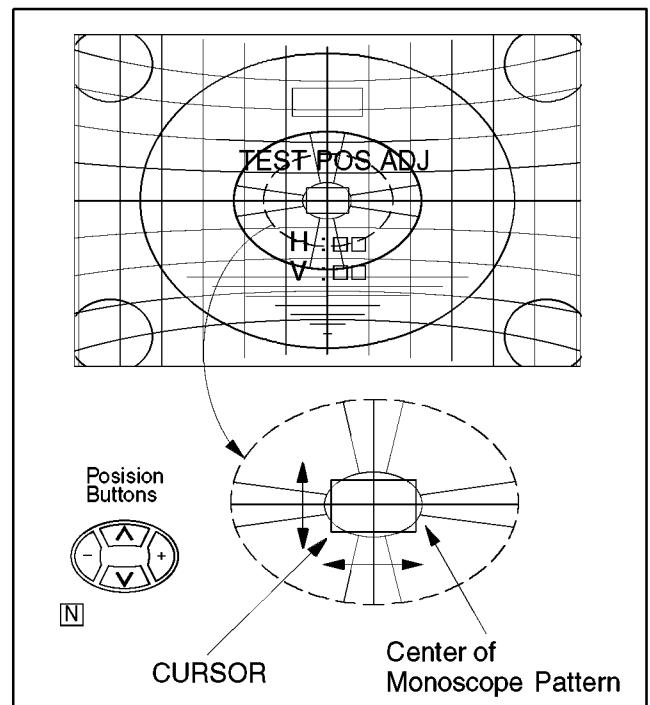


## 10.2. Convergence Adjustment Procedure

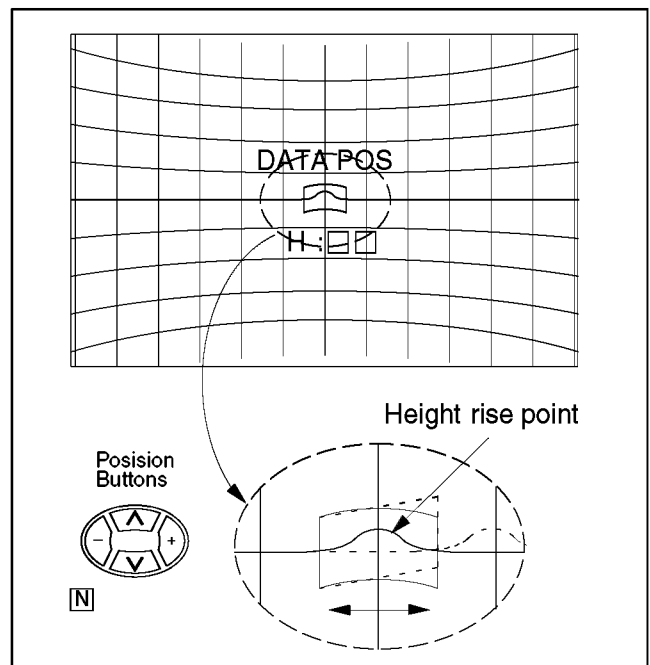
1. Input a monoscope pattern of PAL.
2. Enter the Service Mode1.
3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
5. Push the "YELLOW" or "BLUE" on the remote control, and enter the Coarse Convergence Adjustment mode.



6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
7. Enter to "TEST POS." mode.
8. Push the "5" button to display the monoscope pattern on the screen.
9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.



10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
11. Push the "5" button and close the background image (monoscope pattern).
12. Use the "◀" and "▶" of the position buttons so that the bump in the screen center line is at the center of the cursor.



13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
15. Push the "SET UP" button, and "N" button to store data.
16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

| MODE |           | SAMPLE DATA |   | DAC DATA UP |  | DAC DATA DOWN |  |
|------|-----------|-------------|---|-------------|--|---------------|--|
| 1    | STATIC    | H           | R | 162         |  |               |  |
|      |           |             | G | 26          |  |               |  |
|      |           |             | B | -83         |  |               |  |
|      |           | V           | R | 28          |  |               |  |
|      |           |             | G | 30          |  |               |  |
|      |           |             | B | 38          |  |               |  |
| 2    | SIZE      | H           | R | -87         |  |               |  |
|      |           |             | G | -23         |  |               |  |
|      |           |             | B | -65         |  |               |  |
|      |           | V           | R | -35         |  |               |  |
|      |           |             | G | -72         |  |               |  |
|      |           |             | B | -41         |  |               |  |
| 3    | SKEW      | H           | R | -8          |  |               |  |
|      |           |             | G | -4          |  |               |  |
|      |           |             | B | 7           |  |               |  |
|      |           | V           | R | -4          |  |               |  |
|      |           |             | G | 4           |  |               |  |
|      |           |             | B | 28          |  |               |  |
| MODE |           | SAMPLE DATA |   | DAC DATA UP |  | DAC DATA DOWN |  |
| 3    | LINEARITY | H           | R | -132        |  |               |  |
|      |           |             | G | 79          |  |               |  |
|      |           |             | B | 336         |  |               |  |
| 4    | KEystone  | V           | R | 262         |  |               |  |
|      |           |             | G | +94         |  |               |  |
|      |           |             | B | -67         |  |               |  |
| 5    | PIN       | H           | R | 83          |  |               |  |
|      |           |             | G | 58          |  |               |  |
|      |           |             | B | 51          |  |               |  |
|      |           | V           | R | 338         |  |               |  |
|      |           |             | G | 410         |  |               |  |
|      |           |             | B | 391         |  |               |  |
| 6    | CORNER    | H           | R | +21         |  |               |  |
|      |           |             | G | -7          |  |               |  |
|      |           |             | B | -67         |  |               |  |

10.3.1. Green Coarse Convergence Adjustment

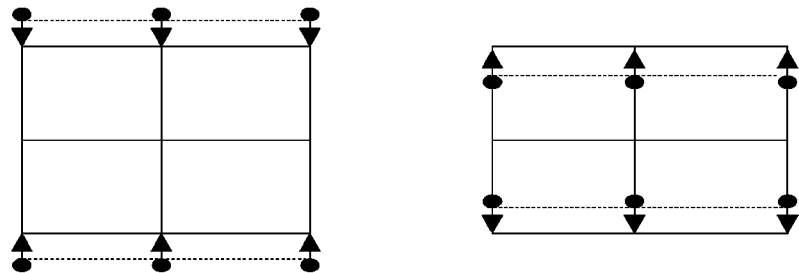
10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

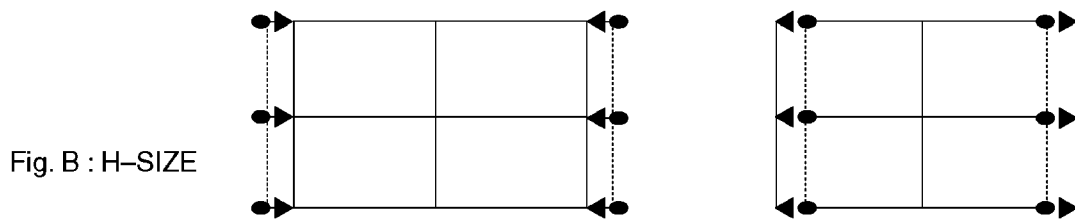
Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

Fig. A : V-SIZE



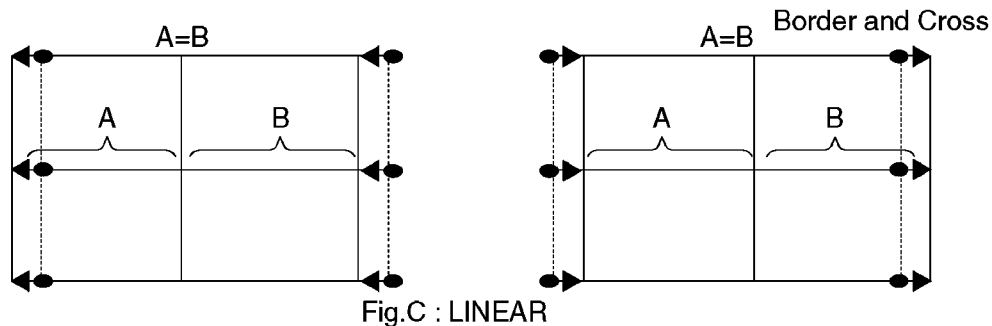
### 10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.



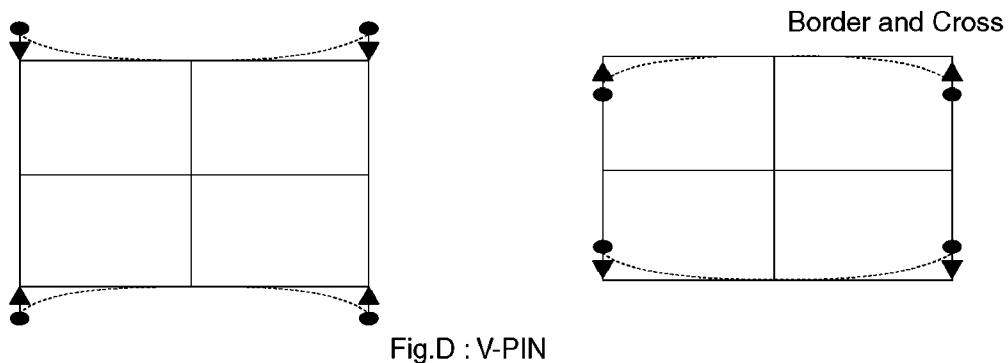
### 10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR". Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.



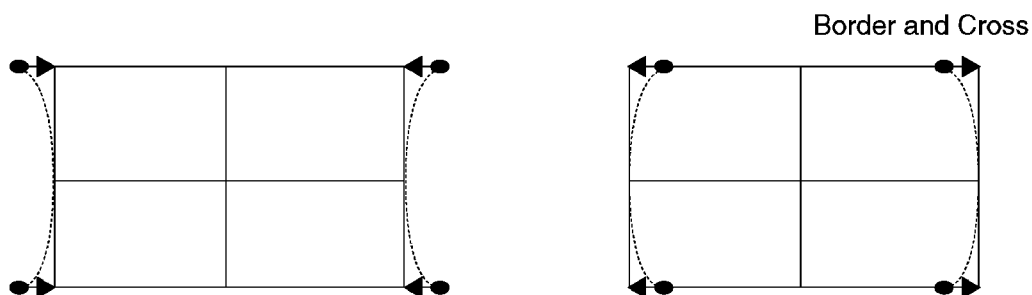
### 10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.



### 10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.



### 10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER". Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

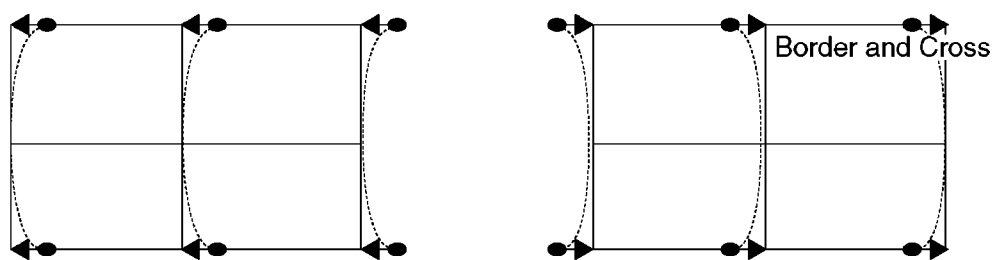


Fig.F : CORNER

### 10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY". Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

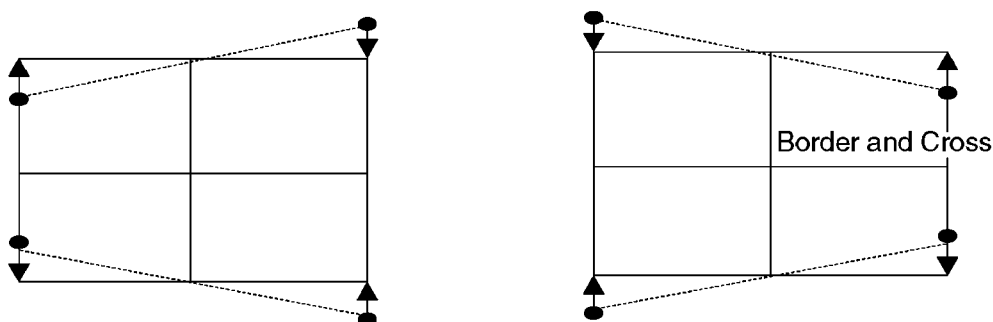


Fig.G : KEY

### 10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

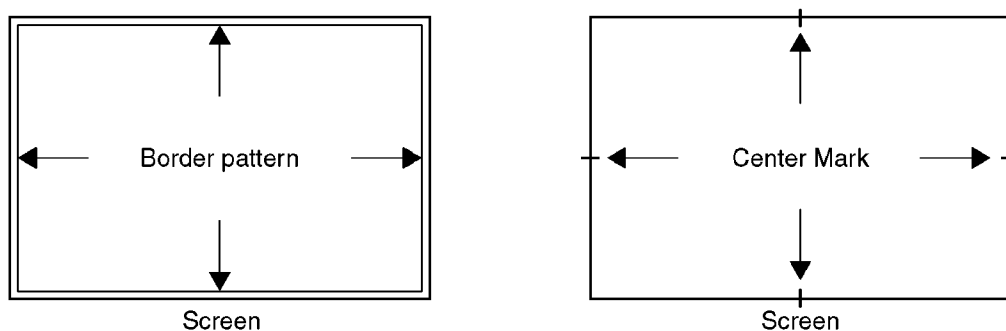


Fig.H STATIC

### 10.3.2. Red Coarse Convergence Adjustment

#### 10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Red color of pattern is aligned with Green colour of pattern.

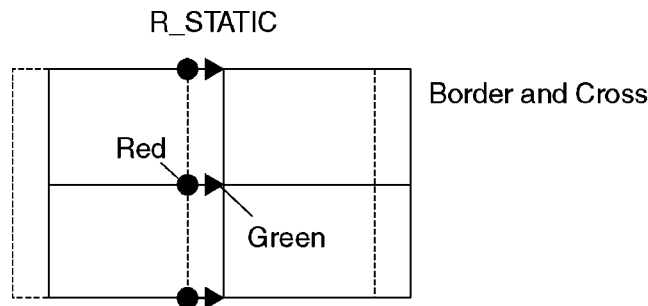


Fig.I : R-STATIC

#### 10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

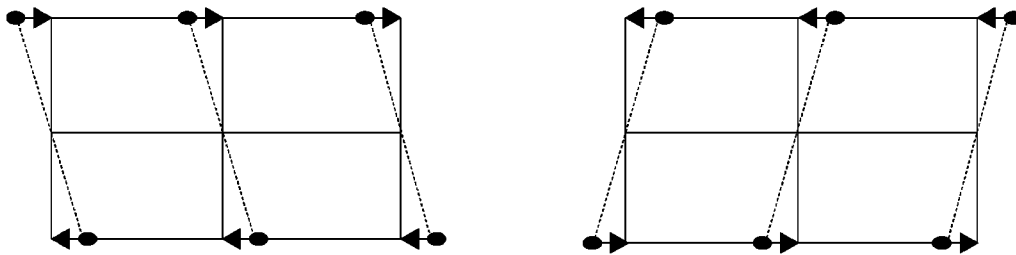


Fig.J : SKEW(V)

#### 10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

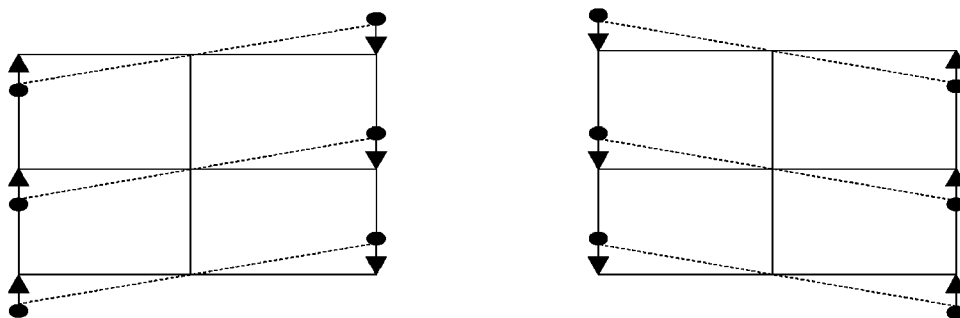


Fig.K : SKEW(H)

#### 10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

#### 10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

### 10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR". Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

### 10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

### 10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

### 10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER". Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

### 10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY". Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

### 10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

## 10.3.3. Blue Coarse Convergence Adjustment

### 10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

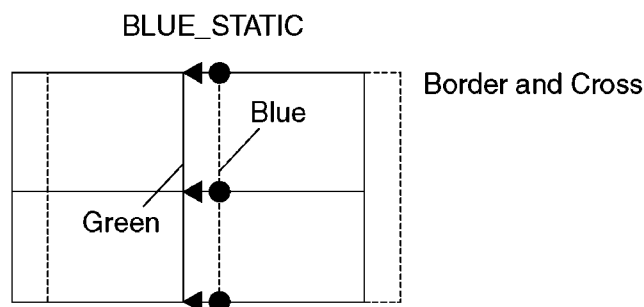


Fig.L : B-STATIC

### 10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

### 10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig. K.)

### 10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

### 10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)



#### **10.3.3.6. "B-LINEAR" adjustment**

Push the "TV/AV" buttons, and select the "B-LINEAR". Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

#### **10.3.3.7. "B-PIN (V)" adjustment**

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Channel up/down" buttons, and adjust the "B-PIN (V)". (Refer to Fig. D.)

#### **10.3.3.8. "B-PIN (H)" adjustment**

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

#### **10.3.3.9. "B-CORNER" adjustment**

Push the "TV/AV" buttons, and select the "B-CORNER". Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

#### **10.3.3.10. "B-KEY" adjustment**

Push the "TV/AV" buttons, and select the "B-KEY". Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

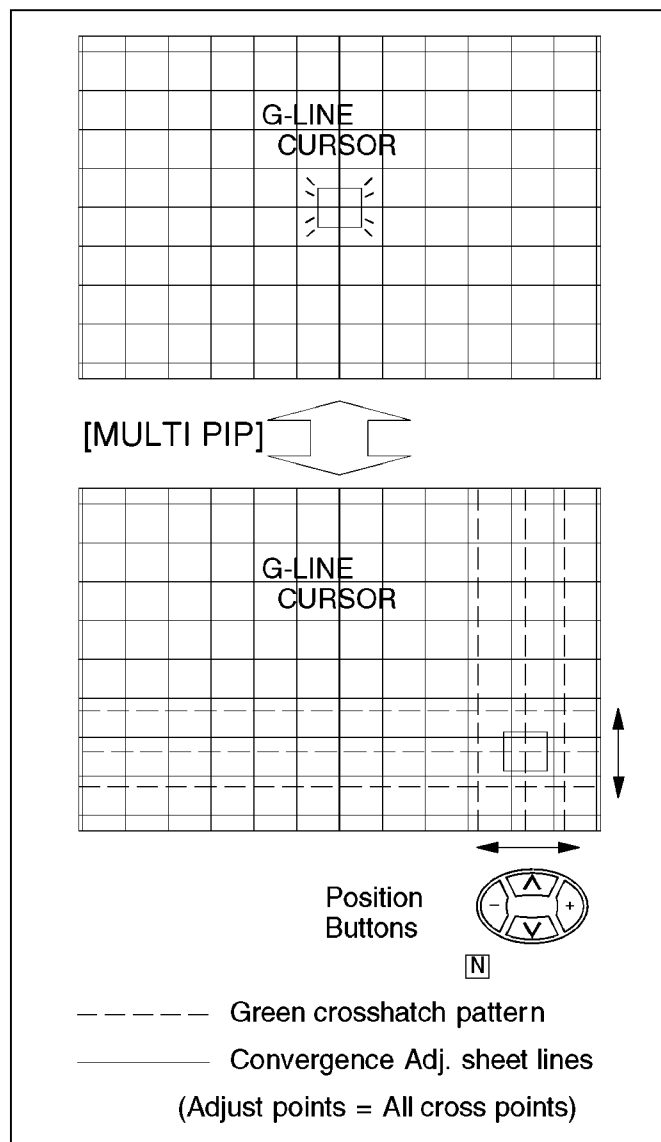
#### **10.3.3.11. "B-STATIC" adjustment**

Push the "TV/AV" buttons, and select the "B-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

## 10.4. Fine Convergence Adjustment

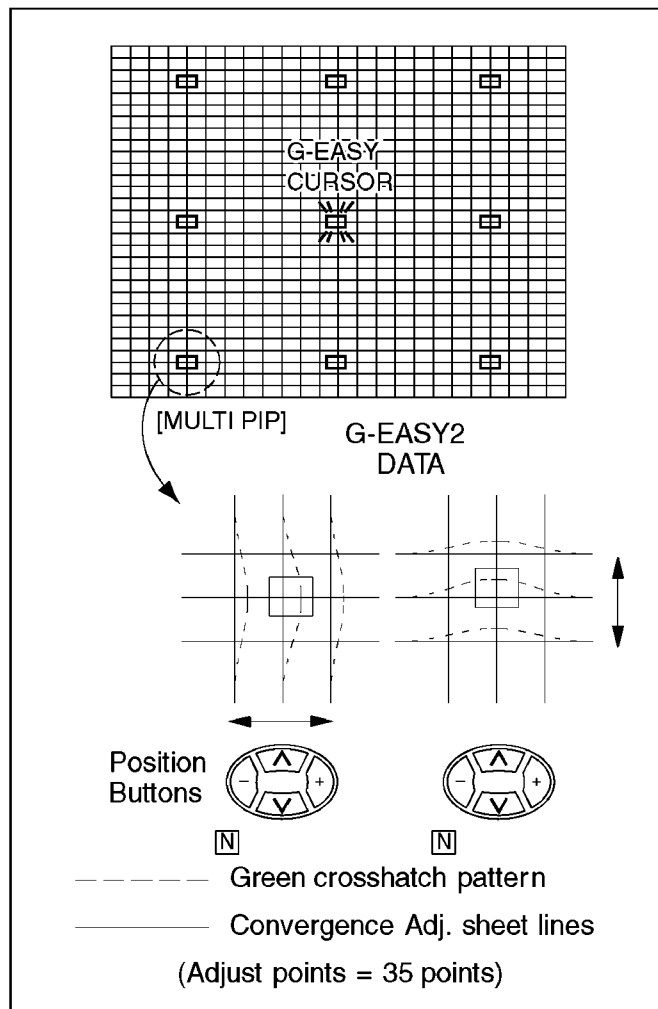
### 10.4.1. Green Convergence Adjustment

1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

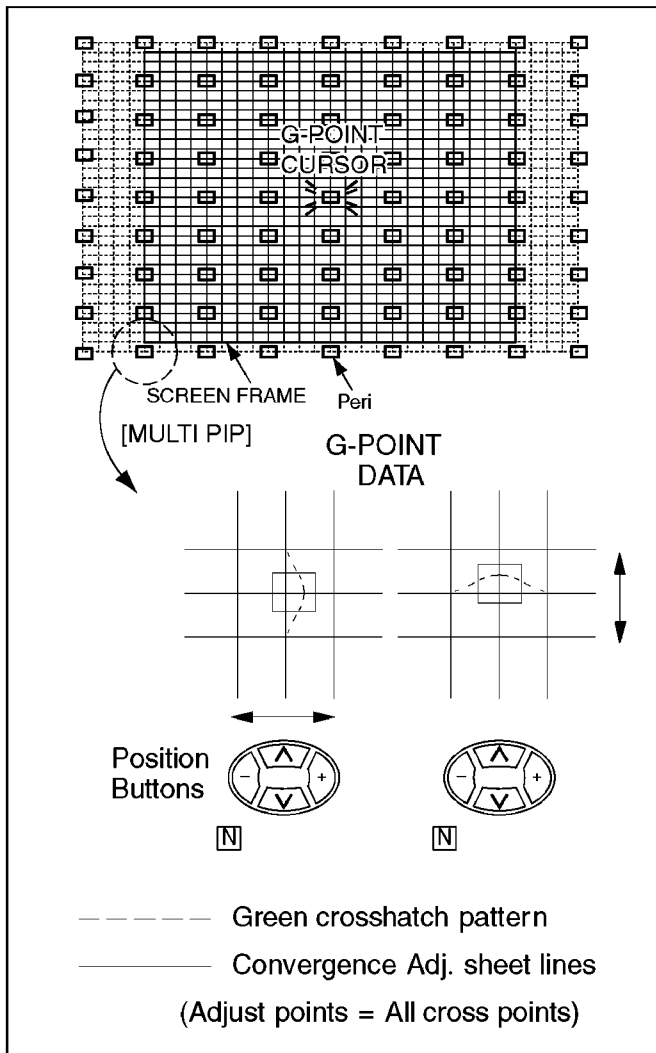


2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
5. Repeat step 21~23 to adjust the vertical lines (13) and the horizontal lines (9).
6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
10. Repeat step 7~9 to adjust the 9 adjustment points.



11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E<sup>2</sup> PROM).

18. Remove the Convergence Adjustment Sheet from the screen.

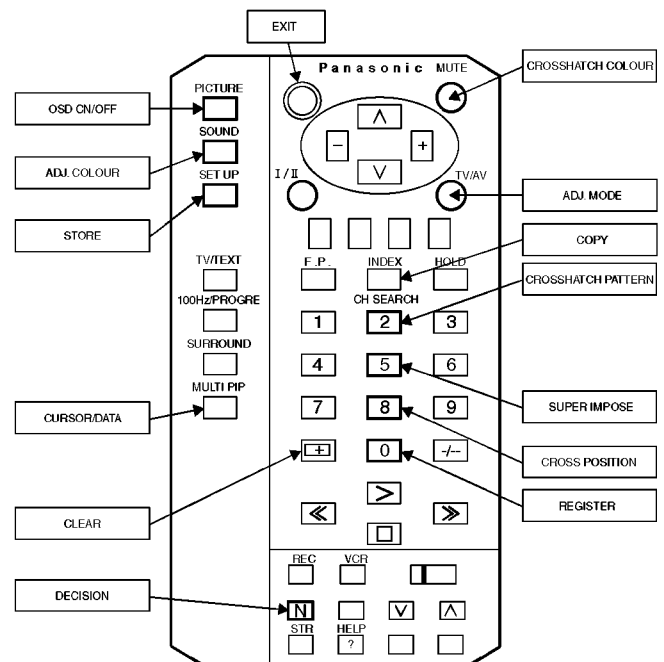
### 10.4.2. Red Convergence Adjustment

1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

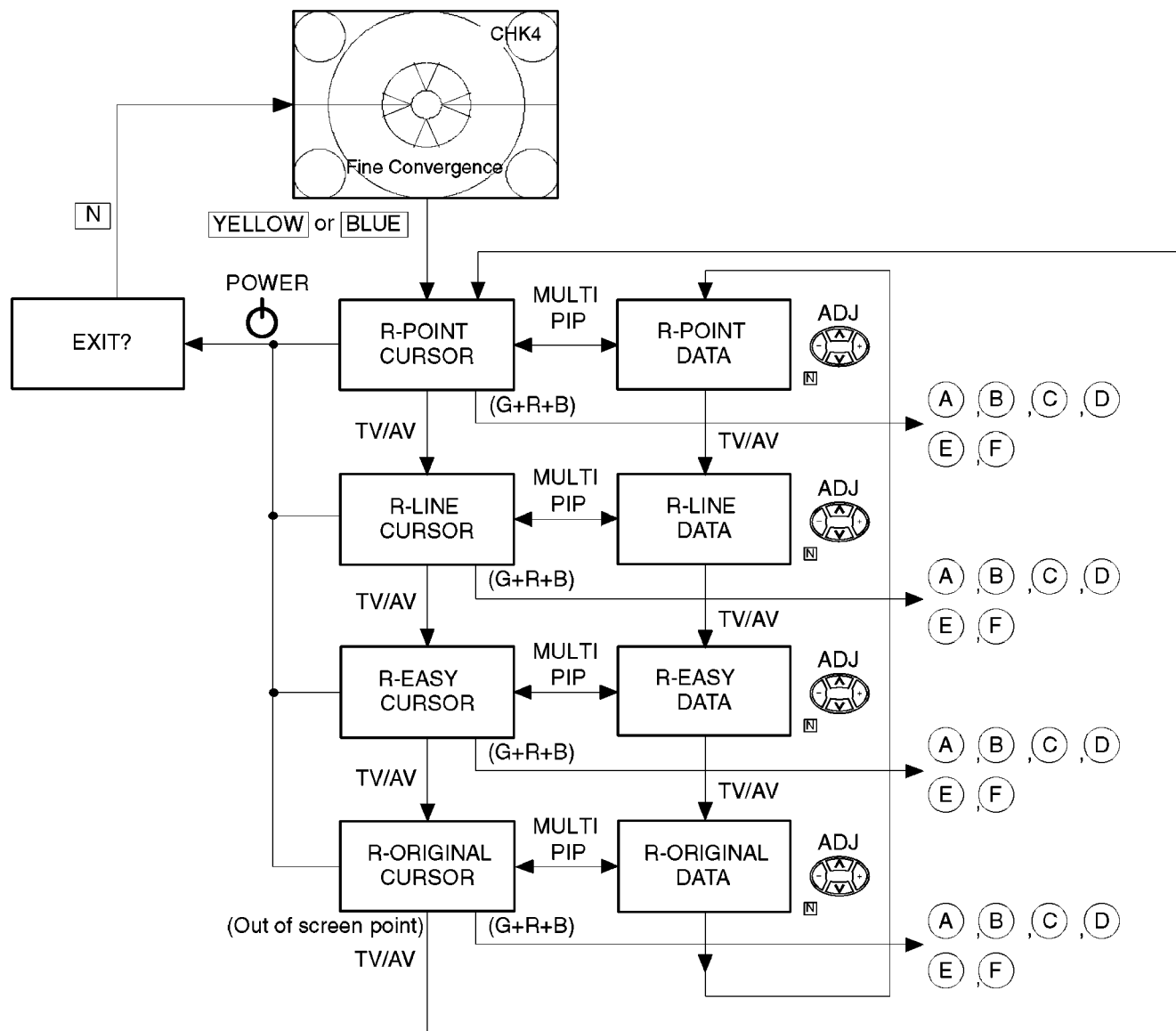
### 10.4.3. Blue Convergence Adjustment

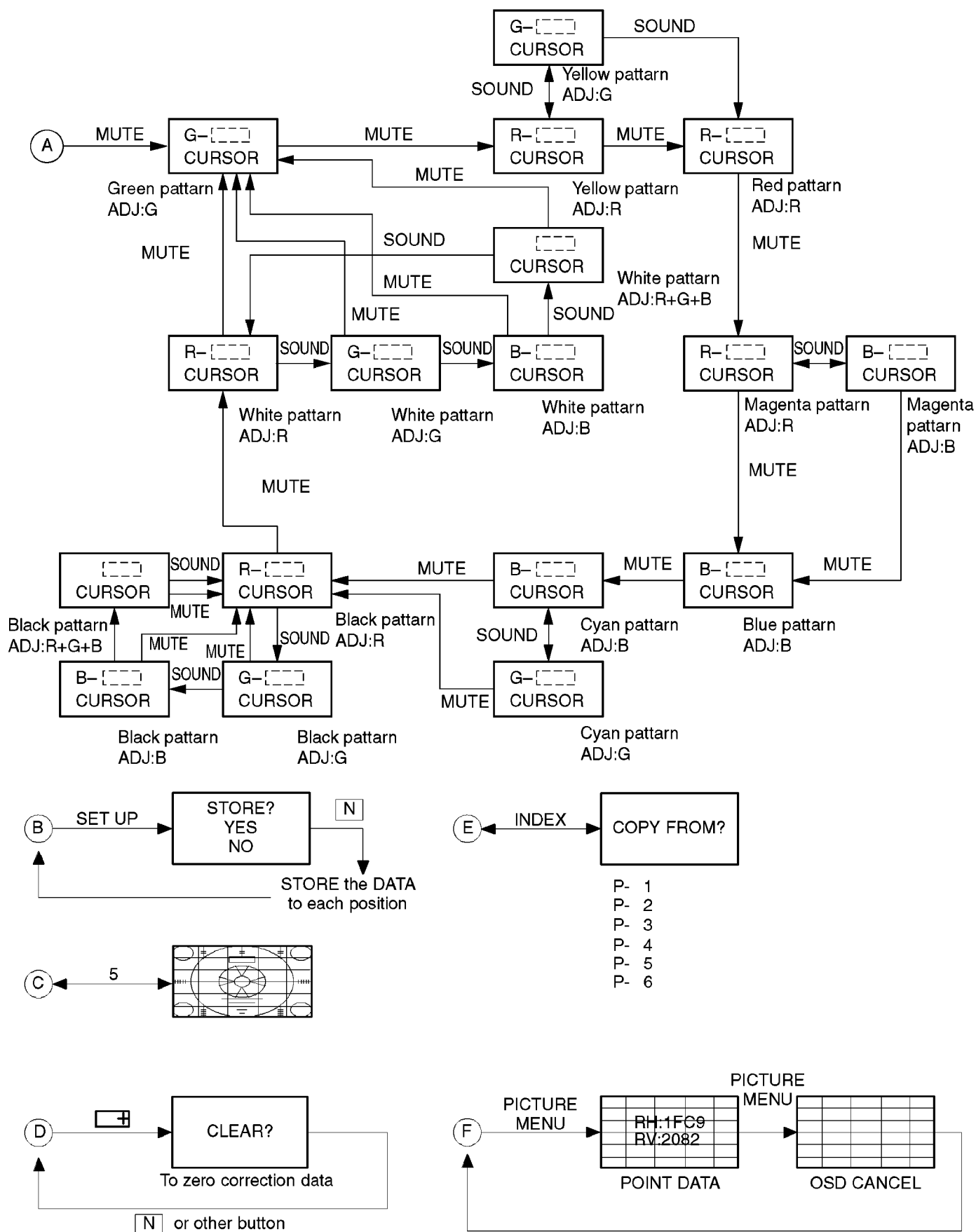
1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button.

Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



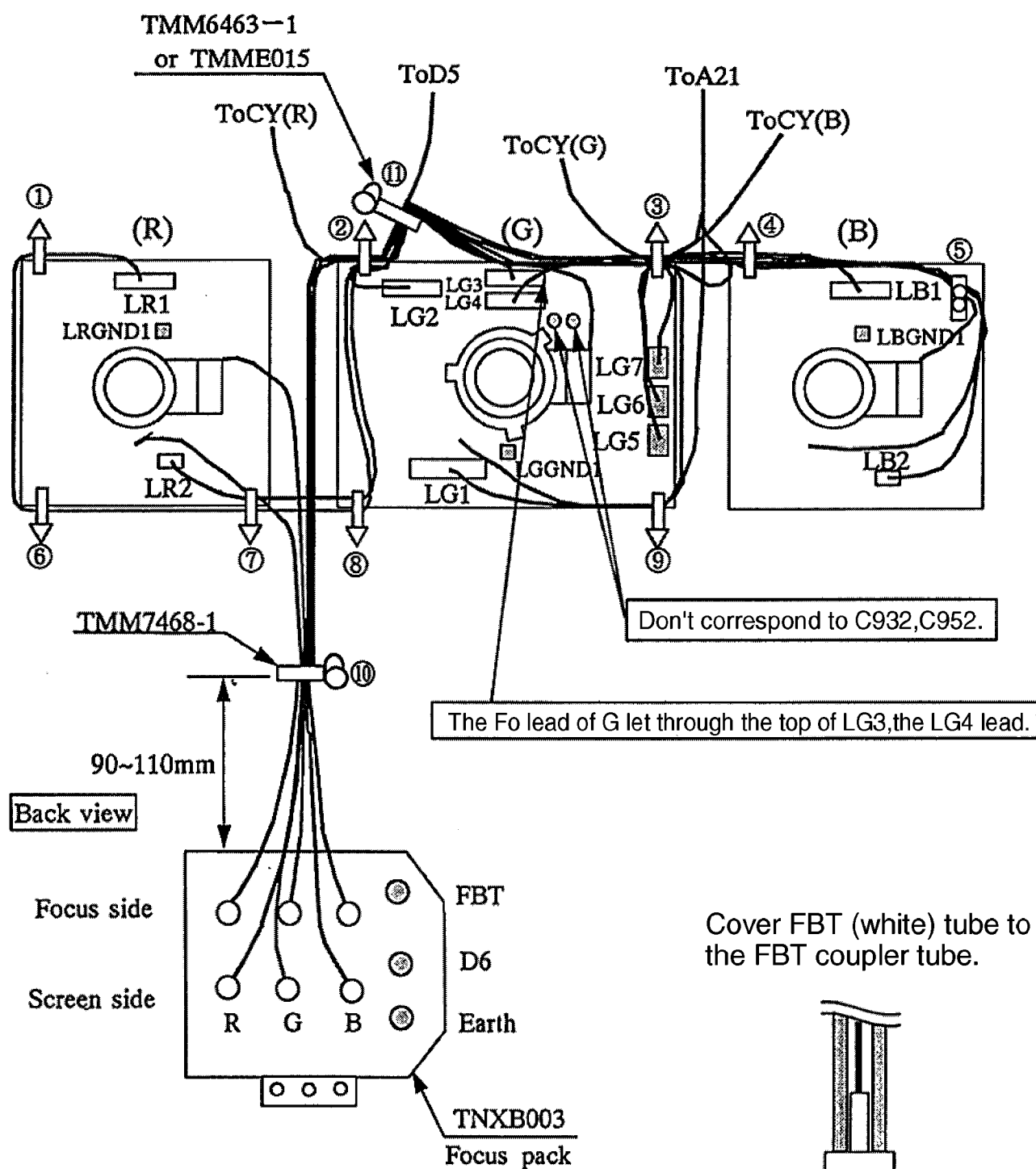
## Fine Convergence Control Chart





# 11 Location of Lead Wiring

## 11.1. Location of Lead Wiring (1)



(Attention)  
The lead line doesn't come within 5 millimeters of the neighborhood of the focus block, too.

**INSERTION OF CONNECTOR**

LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,  
LRGND1, LGGND1, LBGND1

CLAMP DOUBLE CLAMP : ○

| WIRES \ CLAMPER | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ | ⑯ | ⑰ | ⑱ | ⑳ |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CY(R)           |   | ● | ● |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |   |   |
| CY(G)           |   |   | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CY(B)           |   |   | ○ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Focus(R)        |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |   |   |   |
| Focus(G)        |   | ● |   |   |   |   |   |   |   | ● | ● |   |   |   |   |   |   |   |   |
| Focus(B)        |   | ● | ● | ● | ● |   |   |   |   | ● | ● |   |   |   |   |   |   |   |   |
| Screen(R)       |   |   |   |   |   |   | ● |   |   | ● |   |   |   |   |   |   |   |   |   |
| Screen(G)       |   | ● | ● |   |   |   |   |   | ● | ● | ● |   |   |   |   |   |   |   |   |
| Screen(B)       |   | ● | ● | ● | ● |   |   |   |   | ● | ● |   |   |   |   |   |   |   |   |
| LR1~LG3         | ● | ● |   |   |   | ● | ● | ● |   |   | ● |   |   |   |   |   |   |   |   |
| LR2~A21         |   | ● | ● |   |   |   | ● | ● |   |   | ● |   |   |   |   |   |   |   |   |
| LG1~A21         |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |   |   |   |   |
| LG4~LB1         |   |   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LG2~D5          |   | ● |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |   |   |
| LB2             |   |   |   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NOTICE FOR WORE DRESSING**

1. Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
3. It decides to be permitted to insert G, B of the DY lead in either.

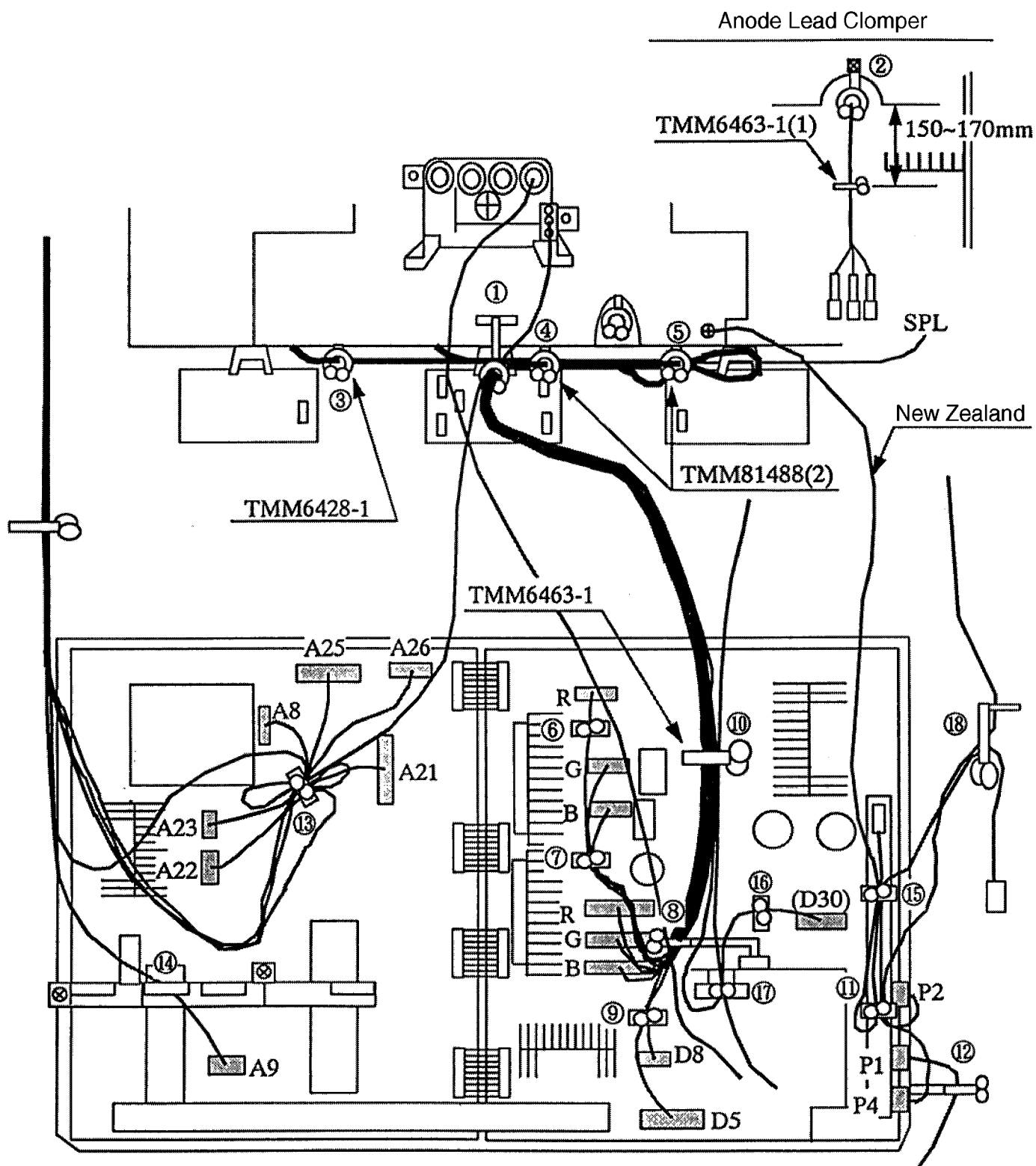
## 11.2. Location of Lead Wiring (2)

### The Anode Lead

1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it.  
(Three insertion positions are free).
2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.

### Attention

1. There is not sagging in Clamper ⑰ -the D30 coupler pipe.
2. Drink a lead between P Prix metal fittings-the optical metal fittings in the New Zealand turning and use it.





**INSERTION OF CONNECTOR**

A9, A21, A22, A23, A25, A26, Anode distributor (R, G, B, FBT), D5,

DY (R, G, B), CY (R, G, B),

D30, P1, P2, P4, Focus pack (Red)

**CLAMP DOUBLE CLAMP : ◎**

| WIRES \ CLAMPER   | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ | ⑯ | ⑰ | ⑱ | ⑳ |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A22~RSP           |   |   |   |   |   |   |   |   |   |   |   |   | ◎ |   |   |   |   |   |   |
| B~DY              | ● |   | ● | ◎ | ● |   |   | ● |   | ● |   |   |   |   |   |   |   |   |   |
| B~CY              | ● |   | ● | ◎ | ◎ |   | ● | ● |   | ● |   |   |   |   |   |   |   |   |   |
| G~DY              | ● |   |   | ◎ | ◎ |   |   | ● |   | ● |   |   |   |   |   |   |   |   |   |
| G~CY              | ● |   |   | ◎ | ● |   | ● | ● |   | ● |   |   |   |   |   |   |   |   |   |
| R~DY              | ● |   |   | ◎ | ◎ |   |   | ● |   | ● |   |   |   |   |   |   |   |   |   |
| R~CY              | ● |   |   | ◎ | ◎ | ● | ● | ● |   | ● |   |   |   |   |   |   |   |   |   |
| D8~Distributor    | ● |   |   |   |   |   |   | ● | ● | ● |   |   |   |   |   |   |   |   |   |
| M12~A25           |   |   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |
| M12~A9            |   |   |   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |
| M11~A26           |   |   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |
| A23~LSP           | ● |   |   | ● | ● |   |   |   |   |   |   |   | ◎ |   |   |   |   |   |   |
| LG2~D5            | ● |   |   | ◎ | ◎ |   |   | ● | ● | ● |   |   |   |   |   |   |   |   |   |
| FBT~Focus pack    | ● |   |   | ● |   |   |   |   |   | ● |   |   |   |   |   |   | ● |   |   |
| D30~Focus pack    | ● |   |   | ● |   |   |   |   |   | ● |   |   |   |   |   | ● | ● |   |   |
| M1~P2             |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   | ● |   |
| Cabinet earth~P4  |   |   |   |   |   |   |   |   |   |   | ● |   |   |   | ● |   |   | ● |   |
| AC cord           |   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |   |
|                   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   | ◎ |   |   |   |   |
| A8~M13            |   |   |   |   |   |   |   |   |   |   |   |   | ● |   |   |   |   |   |   |
| A21~LB2, LG1, LR2 |   |   |   |   |   |   |   |   |   |   |   |   | ◎ |   |   |   |   |   |   |

**NOTICE FOR WIRE DRESSING**

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

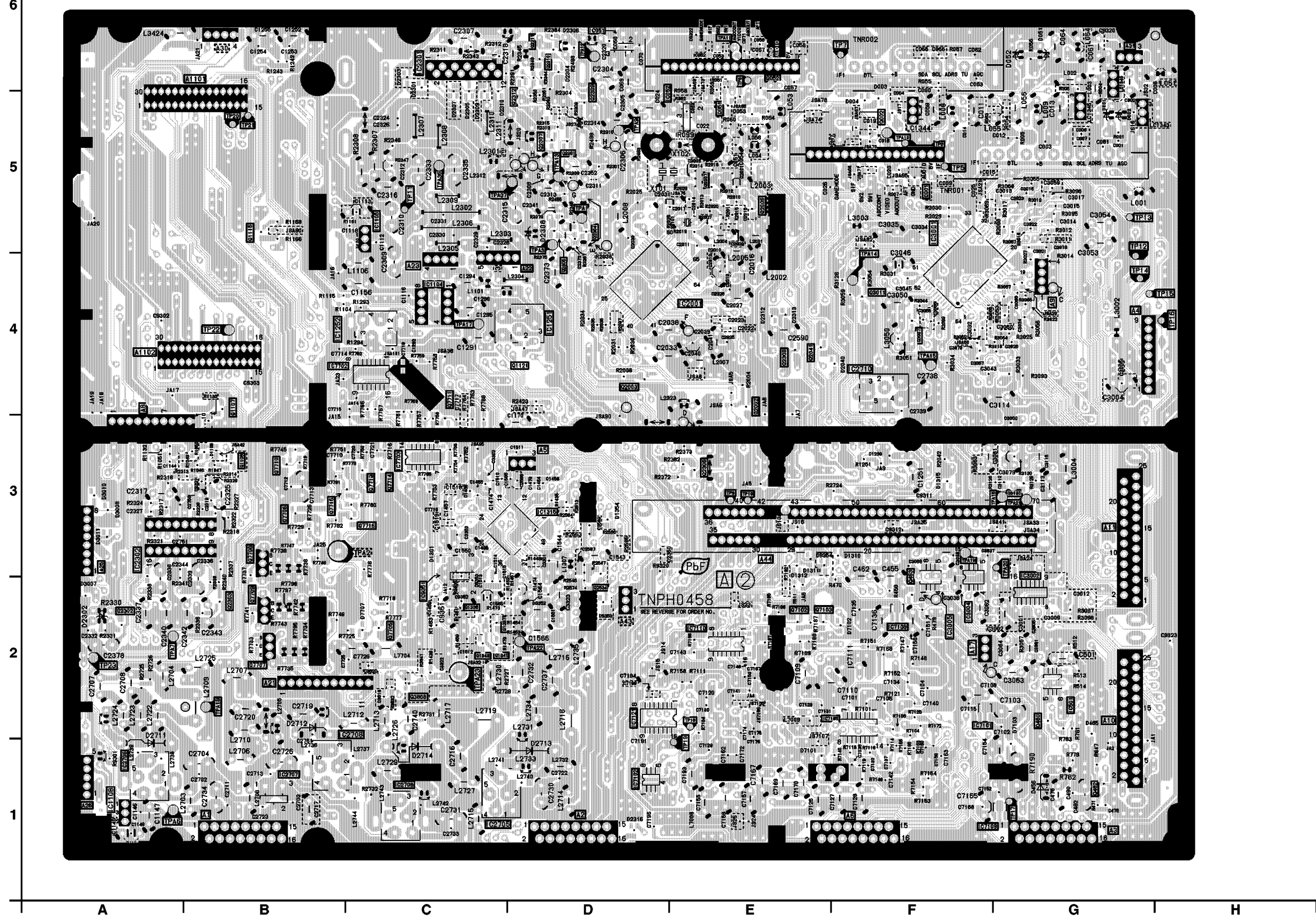


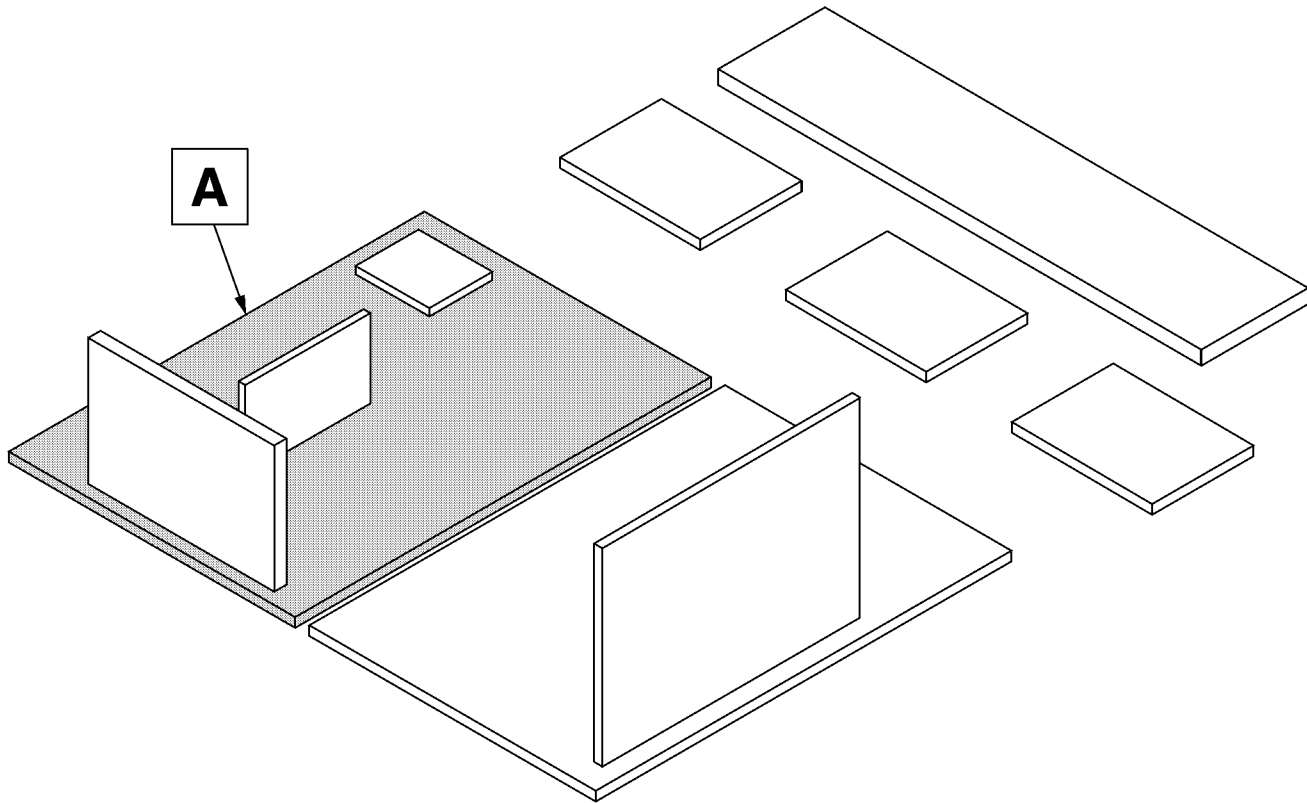
# 12 Conductor Views

## 12.1. A-Board

### A-BOARD (FOIL SIDE)

TZTNP010GAV (TX-51P250HM/HQ/HZ/X) TZTNP010GEV (TC-51P250H) TZTNP020GLV (TX-43P250HM/HQ/HZ/X) TZTNP010GQV (TC-43P250H)





Parts Location

| A-BOARD (FOIL SIDE) |     |            |     |       |     |       |     |       |      |
|---------------------|-----|------------|-----|-------|-----|-------|-----|-------|------|
| IC                  |     | IC7121     | D-2 | Q2305 | D-4 | TP7   | F-6 | TPA15 | F-4  |
| IC051               | D-6 | IC7702     | B-4 | Q2306 | E-3 | TP8   | E-6 | TPA15 | G-3  |
| IC052               | E-5 | IC7703     | C-3 | Q2307 | D-5 | TP9   | E-3 | TPA17 | C-4  |
| IC501               | G-2 | IC9351     | C-2 | Q2308 | E-4 | TP10  | E-3 | TPA18 | B-2  |
| IC1104              | C-4 | TRANSISTOR |     | Q2309 | D-5 | TP11  | C-5 | TPA19 | ,e-3 |
| IC1105              | C-5 | Q001       | F-5 | Q2310 | D-6 | TP12  | G-5 | TPA20 | G-3  |
| IC1108              | A-1 | Q002       | F-5 | Q2311 | D-6 | TP13  | G-5 | TPA21 | G-3  |
| IC1251              | D-4 | Q051       | E-5 | Q2312 | D-5 | TP14  | G-4 | TPA22 | D-2  |
| IC1252              | B-4 | Q052       | E-6 | Q2534 | D-2 | TP15  | H-4 | TPA23 | C-2  |
| IC1315              | D-3 | Q460       | G-2 | Q3007 | F-4 | TP16  | H-4 | TPA36 | C-5  |
| IC2001              | E-4 | Q462       | G-1 | Q3011 | F-4 | TP17  | G-1 | TPA37 | C-5  |
| IC2301              | C-6 | Q463       | F-3 | Q3130 | G-3 | TP18  | E-2 |       |      |
| IC2302              | A-3 | Q1106      | B-3 | Q3808 | C-2 | TP19  | E-1 |       |      |
| IC2705              | C-1 | Q1107      | B-4 | Q7102 | E-2 | TP20  | B-5 |       |      |
| IC2706              | A-1 | Q1115      | B-5 | Q7103 | E-2 | TP21  | B-5 |       |      |
| IC2707              | B-1 | Q1121      | D-4 | Q7705 | C-2 | TP22  | B-4 |       |      |
| IC2708              | C-2 | Q1336      | C-2 | Q7706 | B-3 | TP23  | A-2 |       |      |
| IC2709              | C-1 | Q1337      | C-2 | Q7707 | B-2 | TPA   |     |       |      |
| IC2710              | F-4 | Q1341      | C-2 | Q7708 | B-3 | TPA1  | D-5 |       |      |
| IC3001              | F-5 | Q1342      | C-2 | Q7709 | B-2 | TPA2  | C-3 |       |      |
| IC3002              | G-3 | Q2002      | E-4 | Q7710 | B-3 | TPA3  | D-5 |       |      |
| IC3004              | F-2 | Q2003      | D-4 | Q7711 | C-4 | TPA6  | A-1 |       |      |
| IC3005              | F-2 | Q2006      | E-5 | Q7713 | C-3 | TPA7  | A-2 |       |      |
| IC7101              | F-2 | Q2007      | E-5 | Q7714 | C-3 | TPA9  | D-5 |       |      |
| IC7102              | D-1 | Q2041      | E-4 | Q7715 | B-3 | TPA10 | F-5 |       |      |
| IC7105              | E-2 | Q2301      | D-5 | Q7716 | C-3 | TPA11 | E-6 |       |      |
| IC7108              | F-2 | TP         |     |       |     | TPA12 | D-6 |       |      |
| IC7109              | F-1 | Q2302      | A-2 | TP5   | F-5 | TPA13 | D-5 |       |      |
| IC7110              | E-2 | Q2303      | B-2 | TP6   | F-5 | TPA14 | F-5 |       |      |
|                     |     | Q2304      | D-5 |       |     |       |     |       |      |

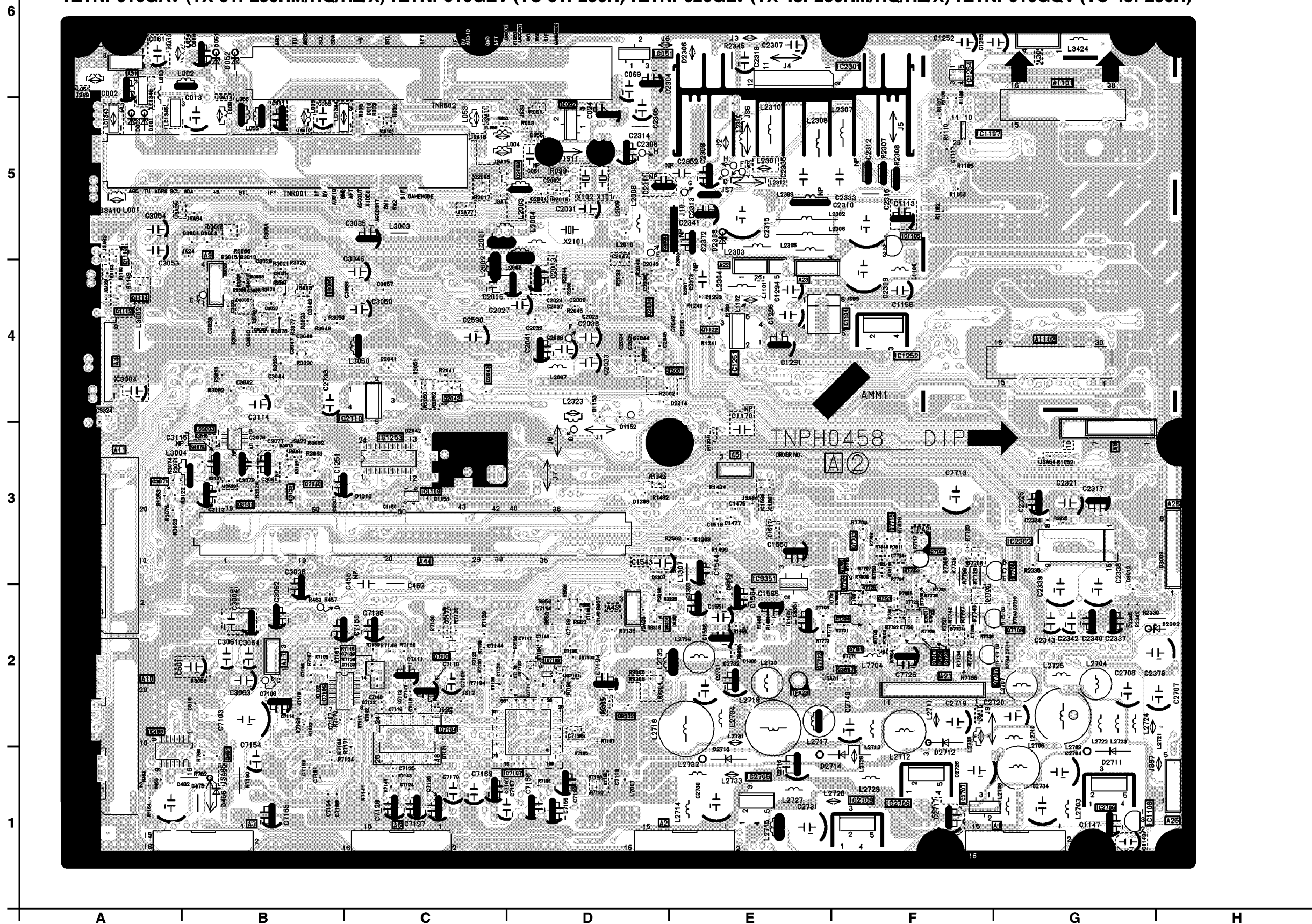
Parts Location

| A-BOARD (COMPONENT SIDE) |     |            |     |       |     |
|--------------------------|-----|------------|-----|-------|-----|
| IC                       |     | TRANSISTOR |     | Q7718 | F-3 |
| IC051                    | D-6 | Q461       | B-1 | Q7719 | F-3 |
| IC052                    | D-5 | Q1112      | A-4 | Q7720 | F-2 |
| IC459                    | A-2 | Q1113      | A-5 | Q7721 | F-2 |
| IC1104                   | F-4 | Q1114      | A-4 | Q7722 | F-3 |
| IC1105                   | F-5 | Q1122      | E-4 | Q7723 | F-2 |
| IC1107                   | F-5 | Q2001      | E-4 | Q7724 | F-2 |
| IC1108                   | G-1 | Q2004      | D-4 | Q7725 | F-2 |
| IC1109                   | C-3 | Q2005      | D-5 | Q9301 | D-2 |
| IC1251                   | E-4 | Q2008      | D-5 | Q9302 | D-2 |
| IC1252                   | F-4 | Q2040      | B-3 | TPA   |     |
| IC1253                   | C-3 | Q2042      | C-4 | TPA2  | F-3 |
| IC1254                   | F-6 | Q2043      | C-4 | TPA23 | E-2 |
| IC2301                   | F-6 | Q3006      | B-4 |       |     |
| IC2302                   | G-3 | Q3071      | A-3 |       |     |
| IC2705                   | E-1 | Q3072      | B-3 |       |     |
| IC2706                   | G-1 | Q3131      | B-3 |       |     |
| IC2707                   | F-1 | Q3132      | B-3 |       |     |
| IC2708                   | F-1 | Q3807      | F-2 |       |     |
| IC2709                   | F-1 | Q7101      | C-2 |       |     |
| IC2710                   | C-4 | Q7701      | F-2 |       |     |
| IC3003                   | B-3 | Q7702      | F-3 |       |     |
| IC7103                   | D-2 | Q7703      | F-3 |       |     |
| IC7104                   | C-2 | Q7704      | F-3 |       |     |
| IC7106                   | B-2 | Q7707      | G-2 |       |     |
| IC7107                   | D-1 | Q7708      | G-3 |       |     |
| IC9351                   | E-3 | Q7709      | G-2 |       |     |
|                          |     | Q7712      | E-2 |       |     |
|                          |     | Q7717      | F-2 |       |     |



**A-BOARD (COMPONENT SIDE)**

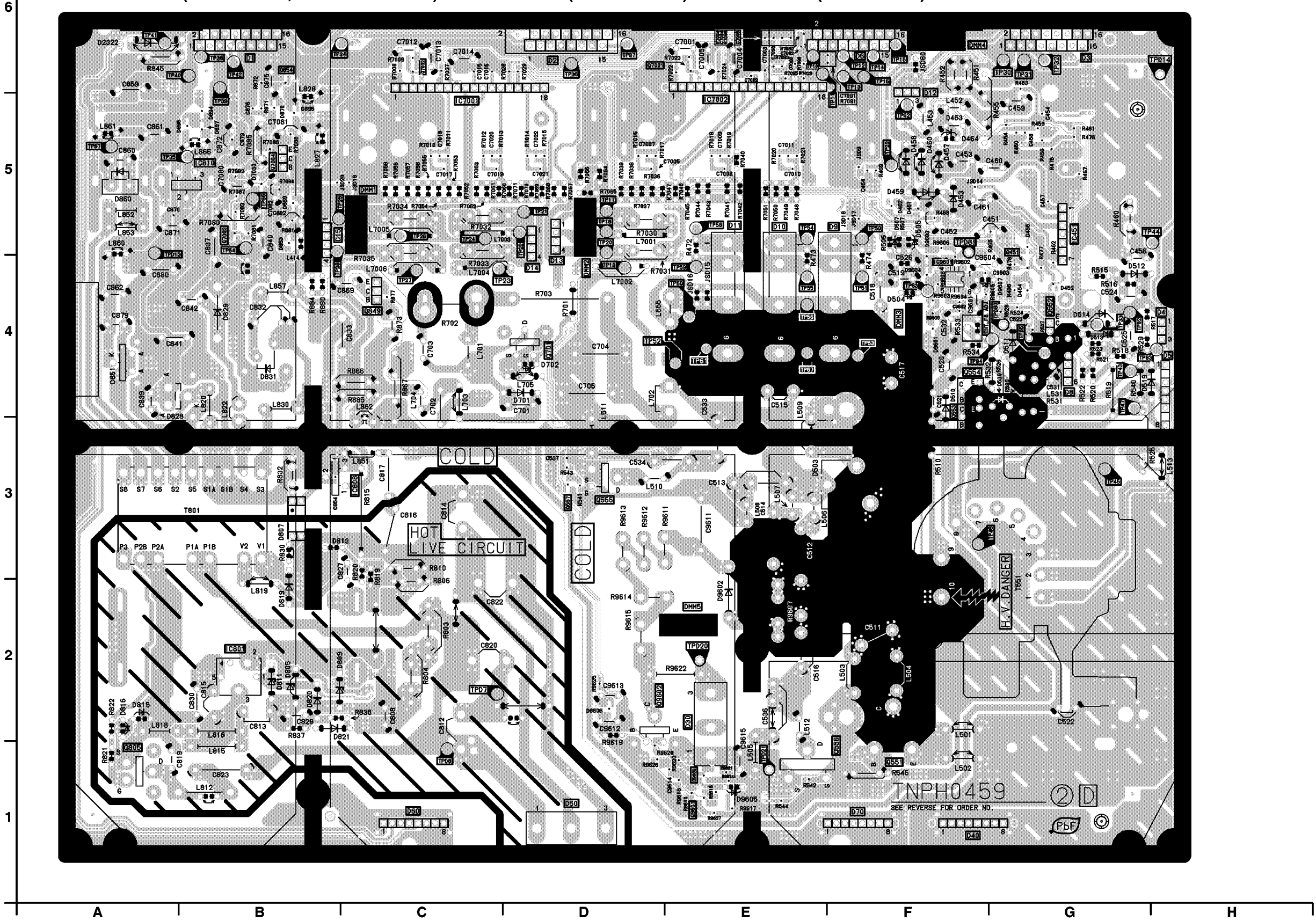
TZTNP010GAV (TX-51P250HM/HQ/HZ/X) TZTNP010GEV (TC-51P250H) TZTNP020GLV (TX-43P250HM/HQ/HZ/X) TZTNP010GQV (TC-43P250H)

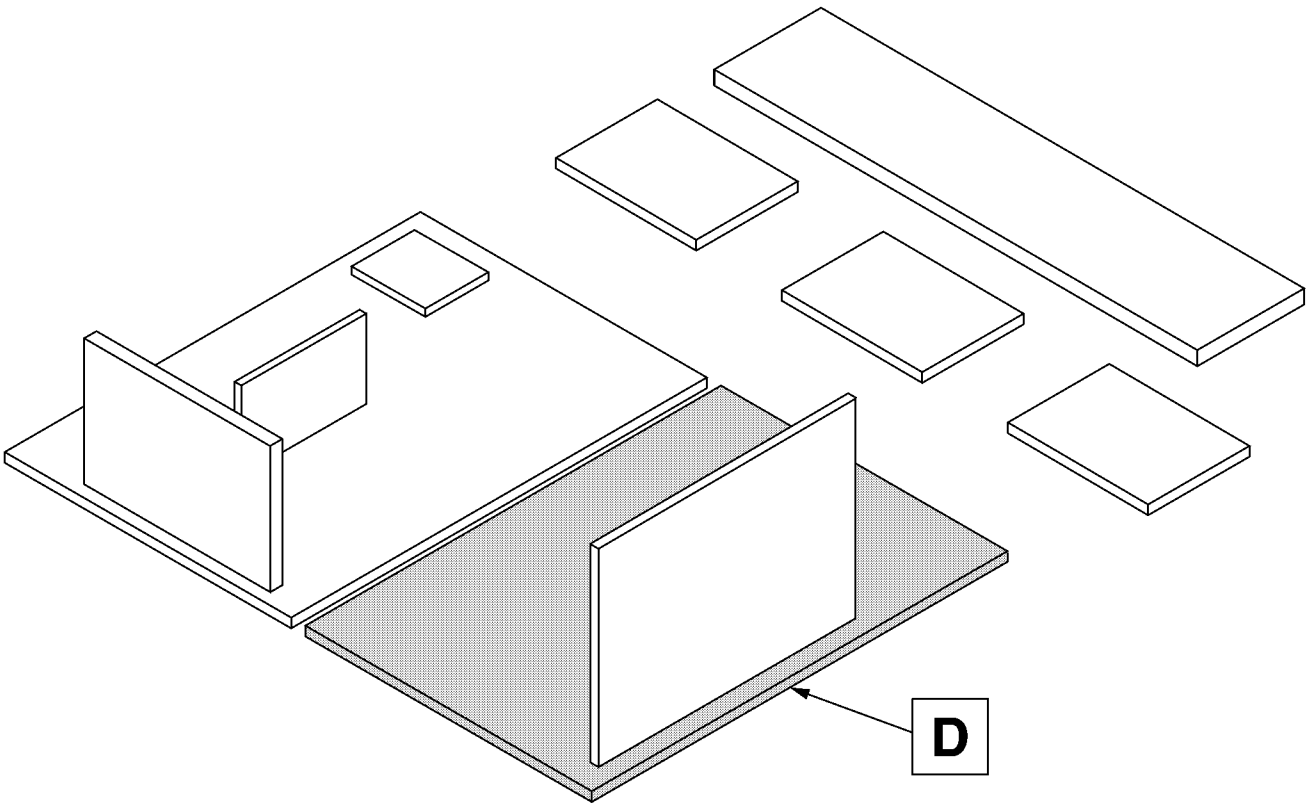


12.2. D-Board

D-BOARD (FOIL SIDE)

TZTNP030GAV (TC-51P250H, TX-51P250HM/HQ) TZTNP010GCV (TX-51P250HZ) TZTNP010GDV (TX-51P250X)  
TZTNP010GLV (TC-43P250H, TX43P250HM/HQ) TZTNP010GNV (TX-43P250HZ) TZTNP010GPV (TX-43P250X)





Parts Location

| D-BOARD (FOIL SIDE) |     |      |     |      |     |      |     |
|---------------------|-----|------|-----|------|-----|------|-----|
| IC                  |     | TP   |     |      |     | TP85 | G-4 |
| IC451               | G-5 | TP10 | E-6 | TP38 | B-6 | TPD  |     |
| IC801               | B-2 | TP11 | F-5 | TP39 | B-5 |      |     |
| IC808               | C-3 | TP12 | F-6 | TP40 | A-6 |      |     |
| IC810               | B-5 | TP13 | F-6 | TP41 | A-6 |      |     |
| IC7001              | C-5 | TP14 | F-6 | TP42 | B-6 |      |     |
| IC7002              | E-5 | TP15 | F-6 | TP43 | G-4 |      |     |
| IC9601              | F-4 | TP16 | F-6 | TP44 | H-5 |      |     |
| TRANSISTOR          |     | TP17 | D-5 | TP45 | G-3 |      |     |
| Q451                | G-5 | TP18 | D-5 | TP46 | G-3 |      |     |
| Q551                | F-1 | TP19 | D-4 | TP47 | G-4 |      |     |
| Q552                | G-4 | TP20 | D-5 | TP50 | F-5 |      |     |
| Q553                | F-4 | TP21 | D-5 | TP51 | F-4 |      |     |
| Q554                | F-4 | TP22 | D-5 | TP52 | D-4 |      |     |
| Q555                | D-3 | TP23 | D-4 | TP53 | F-4 |      |     |
| Q556                | F-1 | TP24 | C-5 | TP54 | E-5 |      |     |
| Q557                | D-3 | TP25 | C-5 | TP55 | E-4 |      |     |
| Q701                | D-4 | TP26 | C-5 | TP56 | E-4 |      |     |
| Q805                | A-1 | TP27 | C-4 | TP57 | E-4 |      |     |
| Q849                | C-4 | TP28 | B-4 | TP58 | E-5 |      |     |
| Q854                | B-6 | TP29 | F-5 | TP59 | E-4 |      |     |
| Q7001               | D-6 | TP30 | G-6 | TP60 | E-4 |      |     |
| Q7002               | C-6 | TP31 | G-6 | TP61 | E-4 |      |     |
| Q7003               | B-5 | TP32 | G-6 | TP62 | F-5 |      |     |
| Q7004               | B-5 | TP33 | G-4 | TP63 | F-4 |      |     |
| Q9601               | E-1 | TP34 | C-6 | TP64 | B-5 |      |     |
| Q9602               | D-2 | TP35 | C-6 | TP66 | B-5 |      |     |
| Q9603               | E-1 | TP36 | A-5 | TP67 | A-5 |      |     |
|                     |     | TP37 | D-6 | TP82 | G-4 |      |     |
|                     |     |      | D-6 | TP83 | G-4 |      |     |
|                     |     |      |     | TP84 | F-4 |      |     |

Parts Location

| D-BOARD (COMPONENT SIDE) |     |            |     |       |     |
|--------------------------|-----|------------|-----|-------|-----|
| IC                       |     | TRANSISTOR |     | TPD   |     |
| IC451                    | A-5 | Q551       | C-1 | TPD14 | A-6 |
| IC801                    | G-2 | Q552       | B-4 | TPD20 | D-2 |
| IC808                    | F-3 | Q553       | B-3 | TPD21 | C-1 |
| IC810                    | G-5 | Q554       | B-4 | TPD80 | B-4 |
| IC7001                   | E-6 | Q555       | D-3 | TPD81 | B-5 |
| IC7002                   | C-6 | Q556       | C-2 |       |     |
|                          |     | Q701       | E-4 |       |     |
|                          |     | Q805       | G-1 |       |     |
|                          |     | Q849       | F-4 |       |     |
|                          |     | Q7004      | F-5 |       |     |
|                          |     | Q9602      | D-2 |       |     |



## 5

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**A**

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**B**

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**C**

**D**

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**E**

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**F**

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**G**

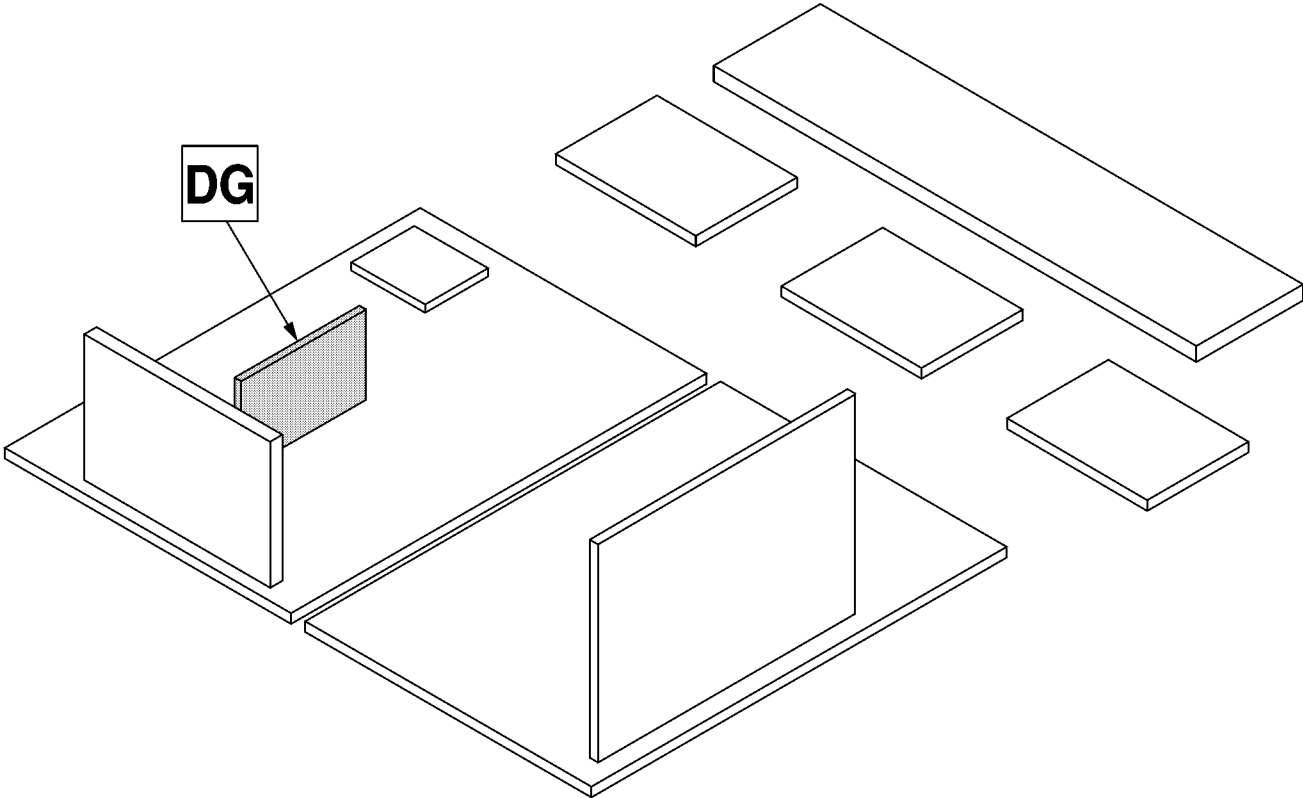
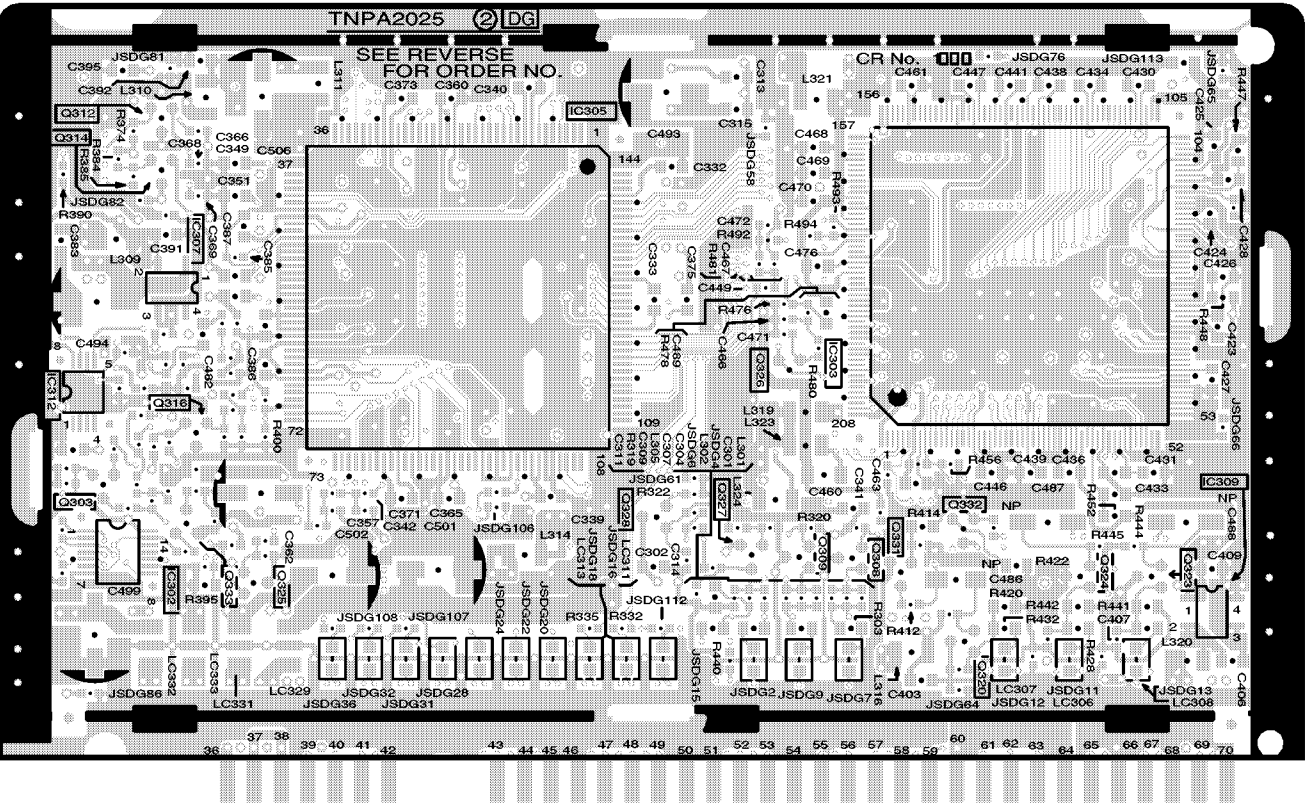
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H

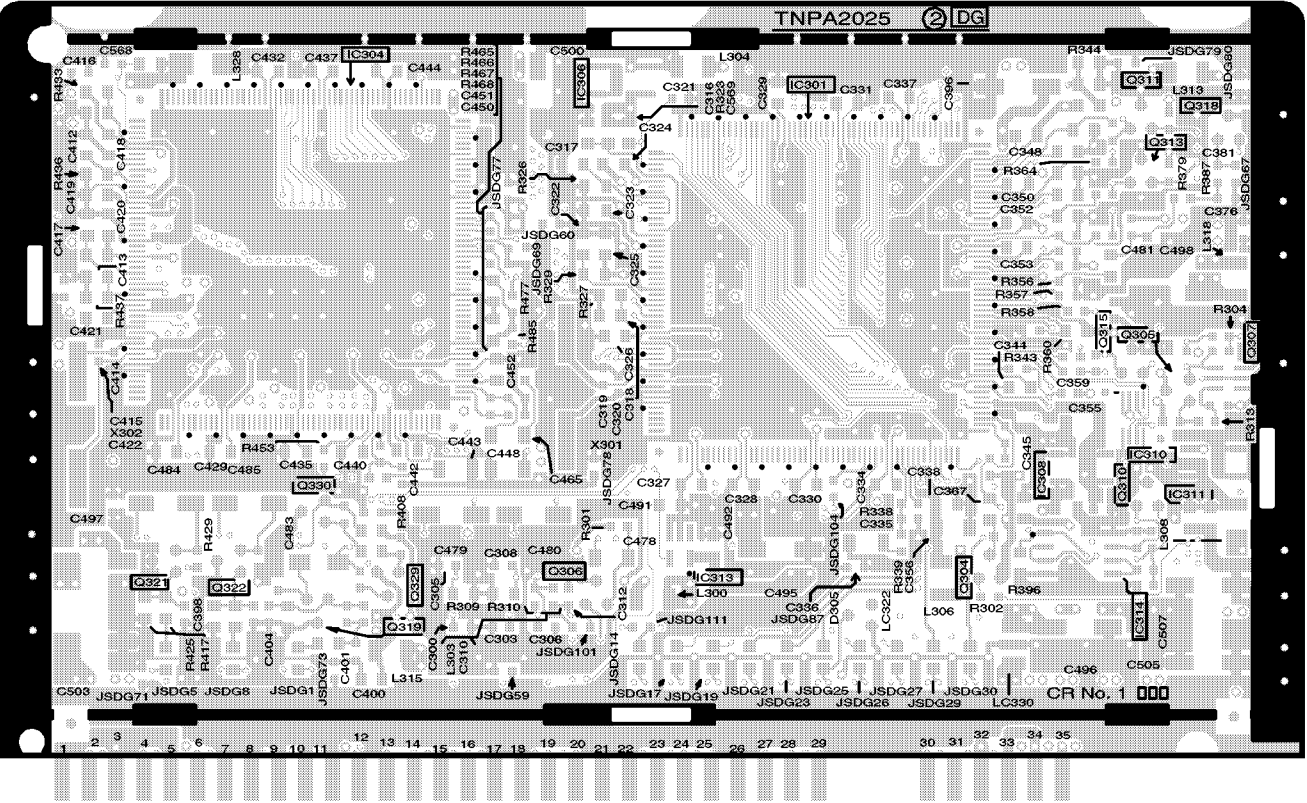


12.3. DG-Board

DG-BOARD (FOIL SIDE) TXNDG10GAV



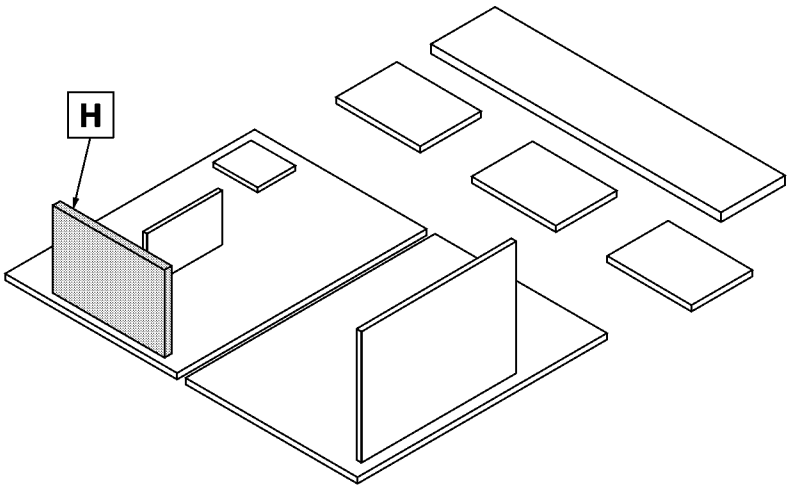
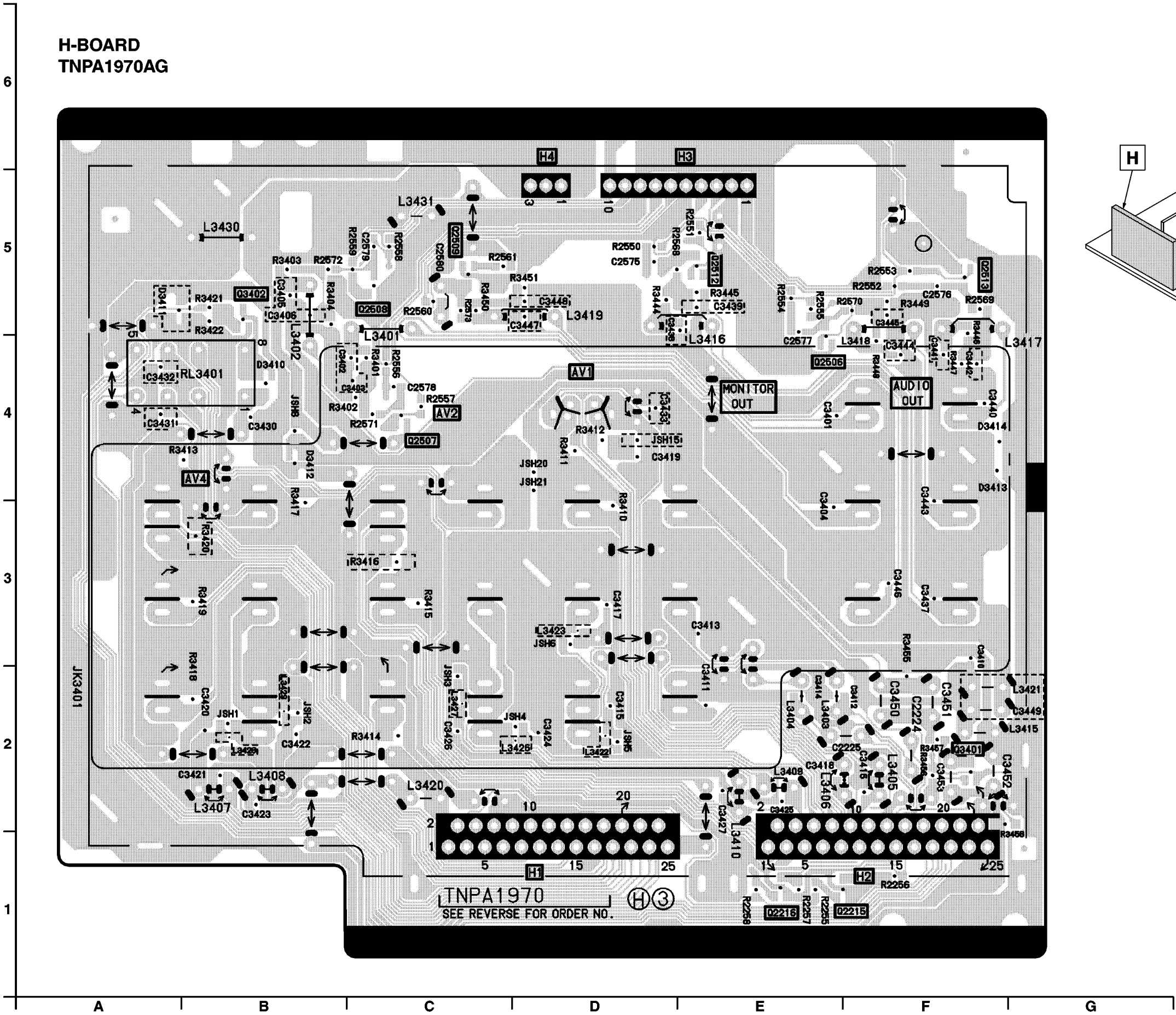
DG-BOARD (COMPONENT SIDE) TXNDG10GAV



Parts Location

| DG-BOARD |     |            |     |       |     |
|----------|-----|------------|-----|-------|-----|
| IC       |     | TRANSISTOR |     | Q1319 | B-1 |
|          |     |            |     |       |     |
| IC1301   | C-3 | Q1303      | A-5 | Q1320 | D-4 |
| IC1302   | A-4 | Q1304      | D-1 | Q1321 | A-1 |
| IC1303   | D-5 | Q1305      | E-2 | Q1322 | B-1 |
| IC1304   | B-3 | Q1306      | C-1 | Q1323 | E-4 |
| IC1305   | C-6 | Q1307      | E-2 | Q1324 | D-4 |
| IC1306   | C-3 | Q1308      | D-4 | Q1325 | B-4 |
| IC1307   | A-6 | Q1309      | D-4 | Q1326 | C-5 |
| IC1308   | D-2 | Q1310      | E-2 | Q1327 | C-5 |
| IC1309   | E-5 | Q1311      | E-3 | Q1328 | C-5 |
| IC1310   | E-2 | Q1312      | A-6 | Q1329 | B-1 |
| IC1311   | E-2 | Q1313      | E-3 | Q1330 | B-2 |
| IC1312   | A-5 | Q1314      | A-6 | Q1331 | D-5 |
| IC1313   | C-1 | Q1315      | D-2 | Q1332 | D-5 |
| IC1314   | E-1 | Q1316      | A-5 | Q1333 | B-4 |
|          |     | Q1318      | E-3 |       |     |

12.4. H-Board



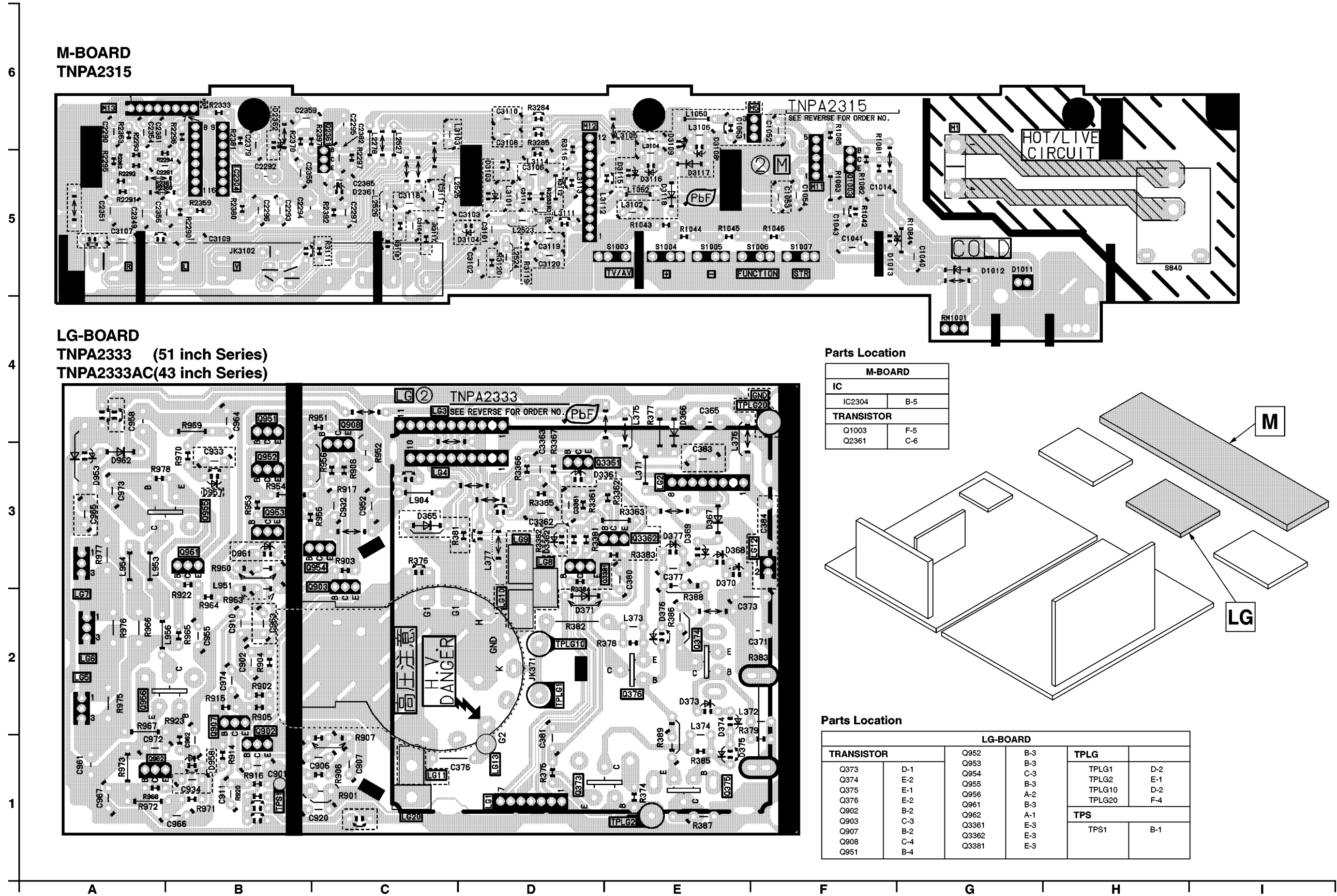
Parts Location

| H-BOARD    |     |
|------------|-----|
| TRANSISTOR |     |
| Q2215      | F-1 |
| Q2216      | E-1 |
| Q2506      | E-4 |
| Q2507      | C-4 |
| Q2508      | C-5 |
| Q2509      | C-5 |
| Q2512      | E-5 |
| Q2513      | F-5 |
| Q3401      | F-2 |
| Q3402      | B-5 |

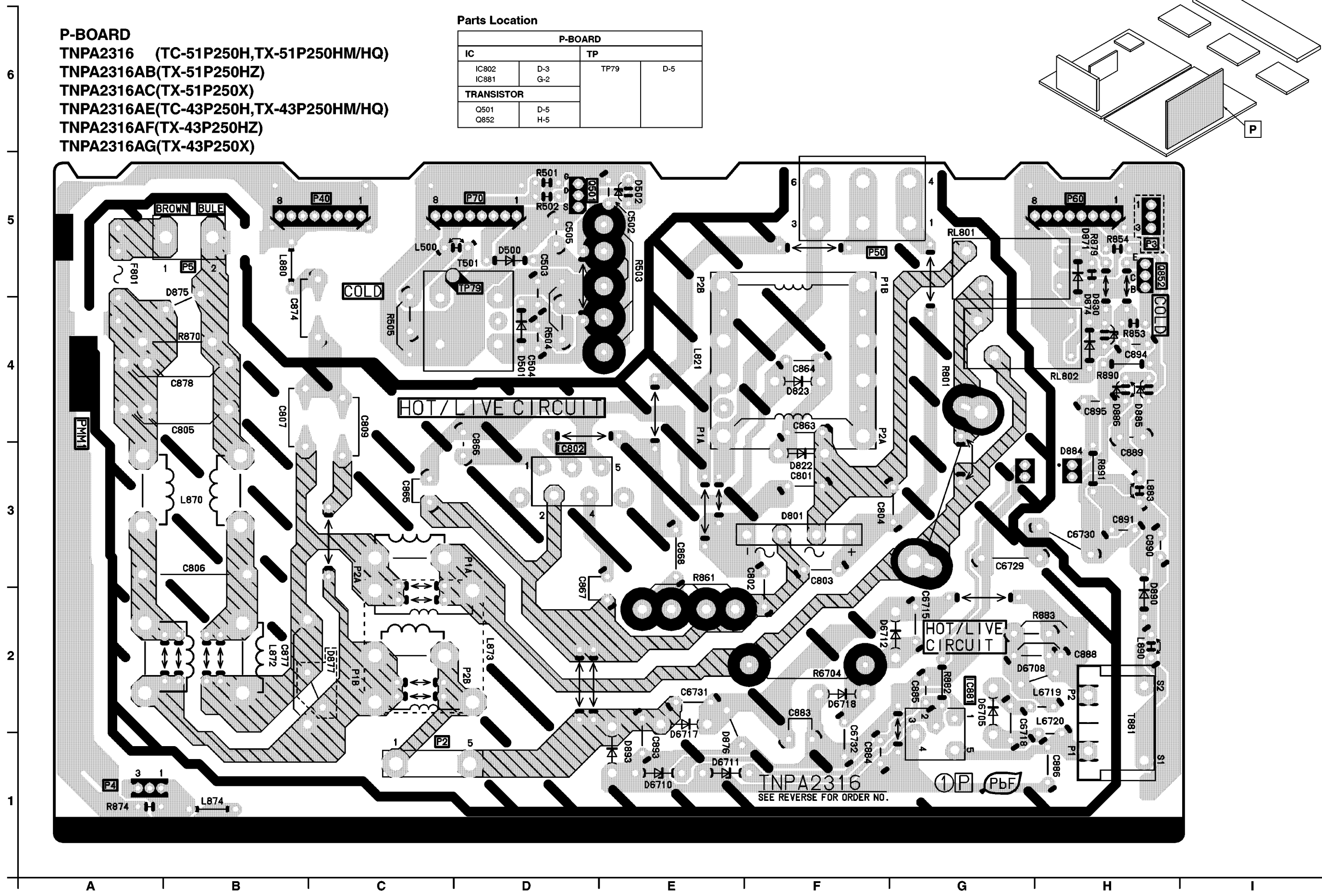




12.6. LG-Board and M-Board



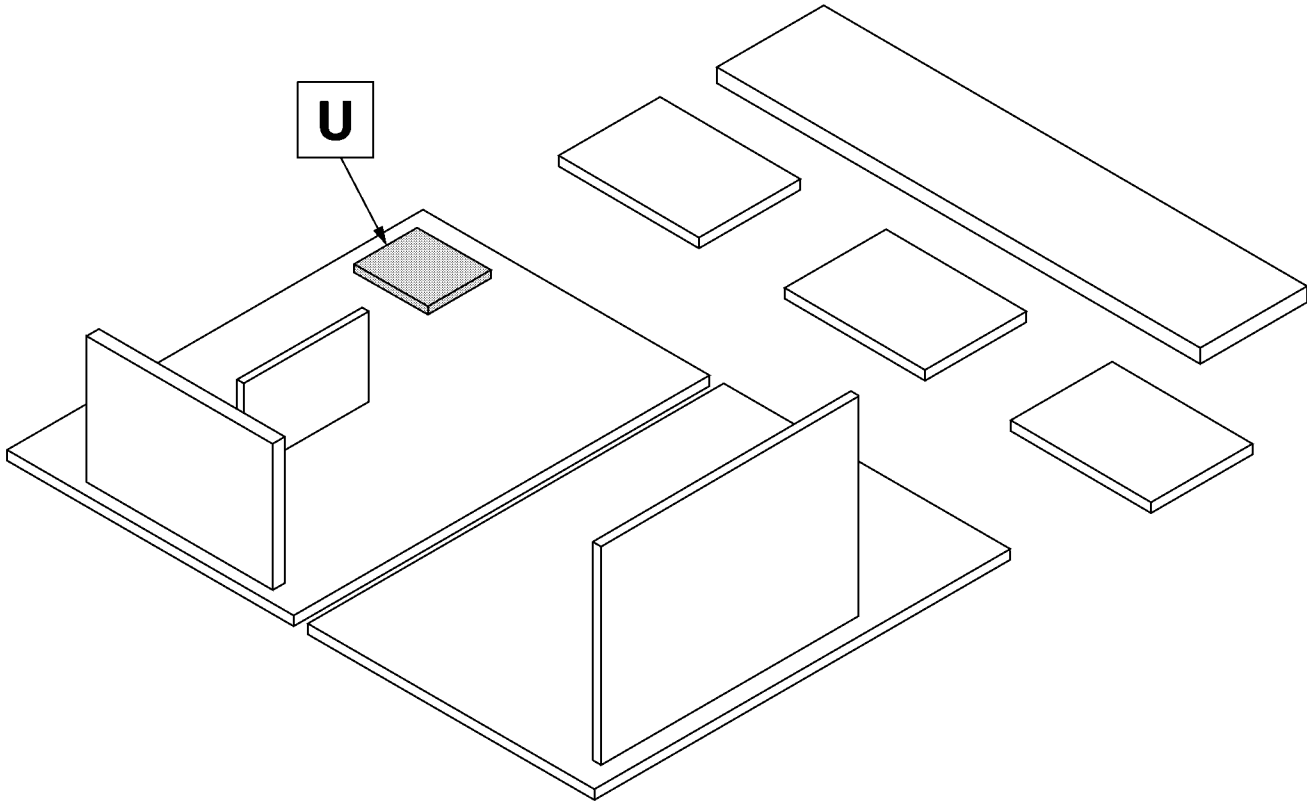
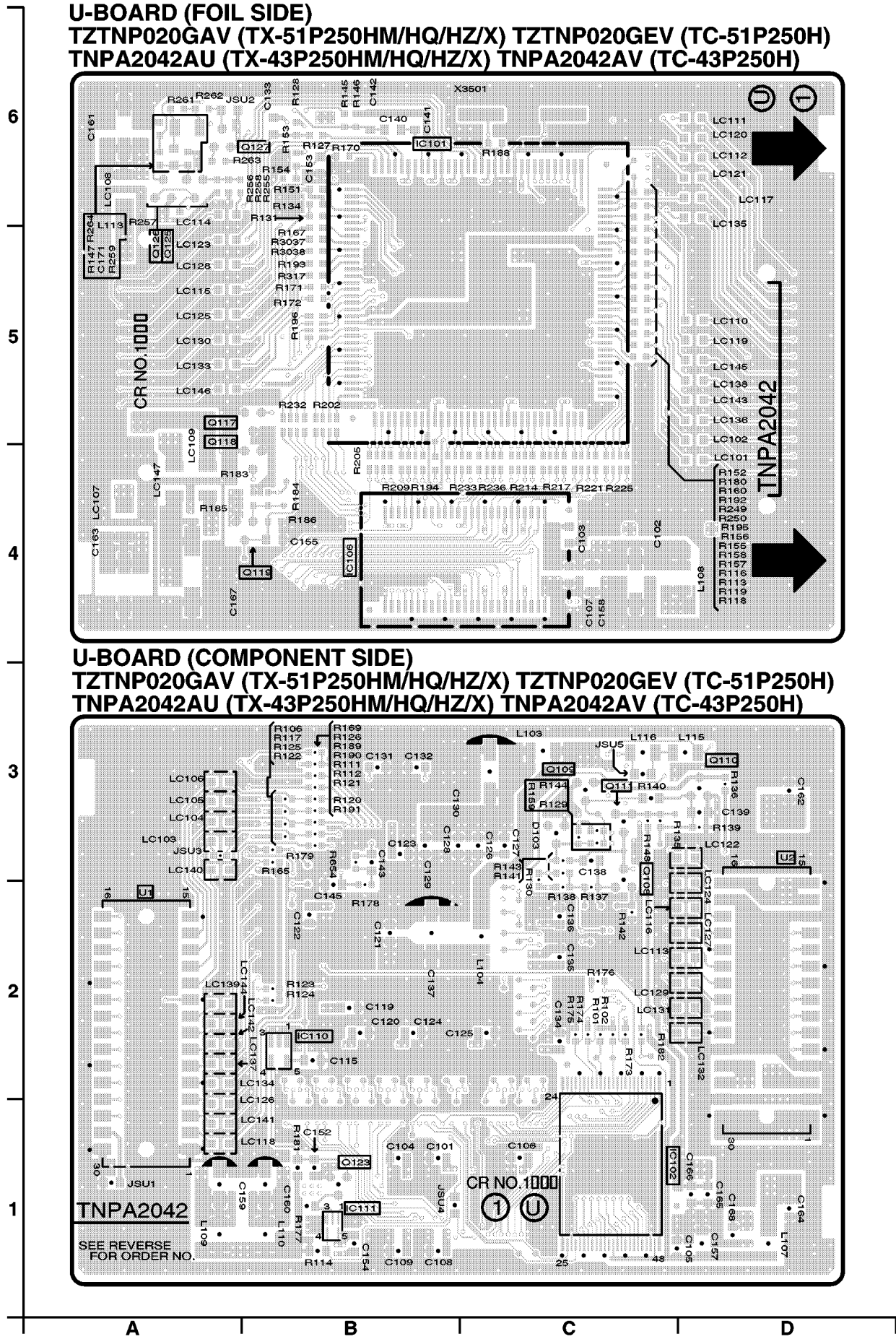
12.7. P-Board



Parts Location

| P-BOARD    |     |      |     |
|------------|-----|------|-----|
| IC         |     | TP   |     |
| IC802      | D-3 | TP79 | D-5 |
| IC881      | G-2 |      |     |
| TRANSISTOR |     |      |     |
| Q501       | D-5 |      |     |
| Q852       | H-5 |      |     |

12.8. U-Board

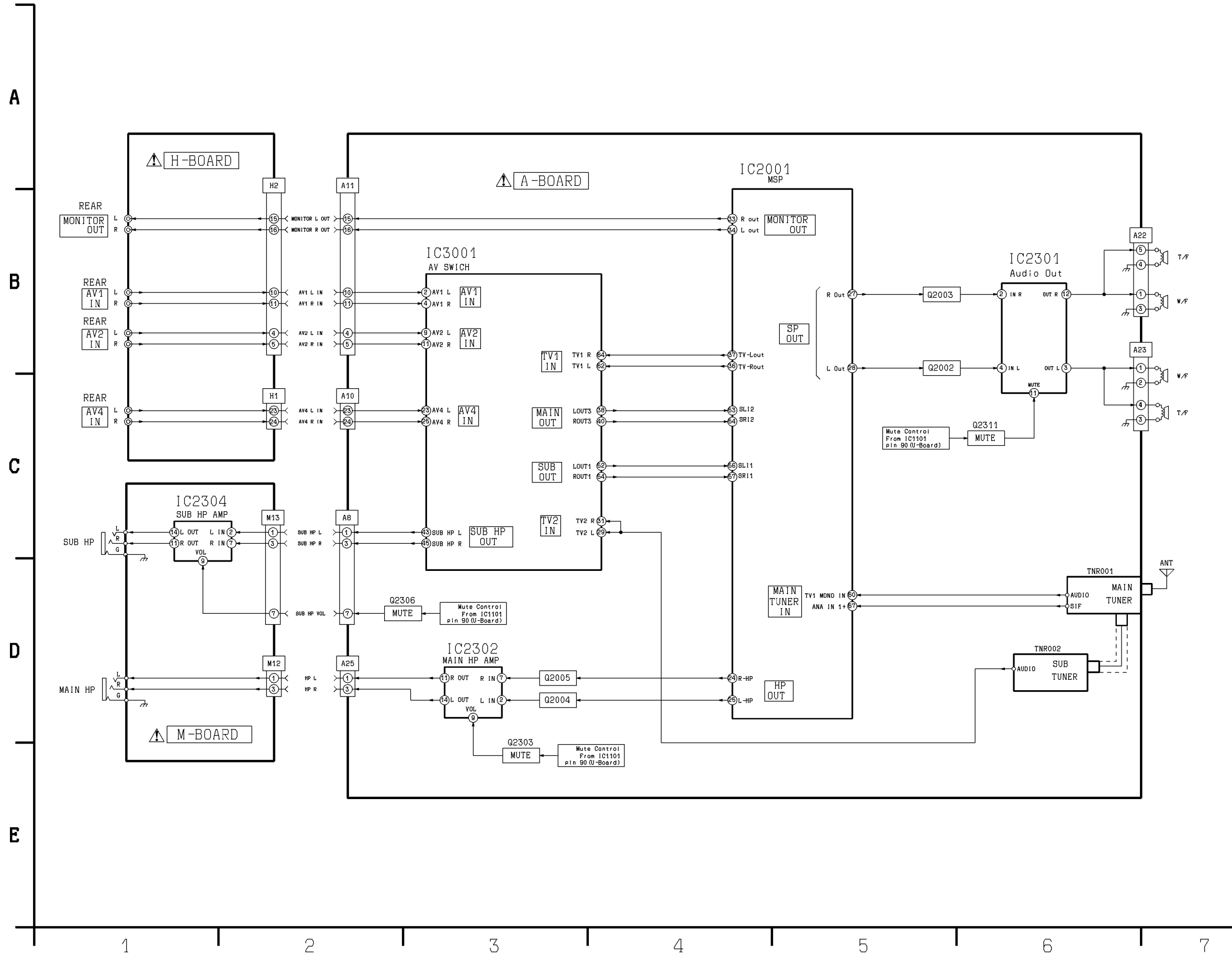


Parts Location

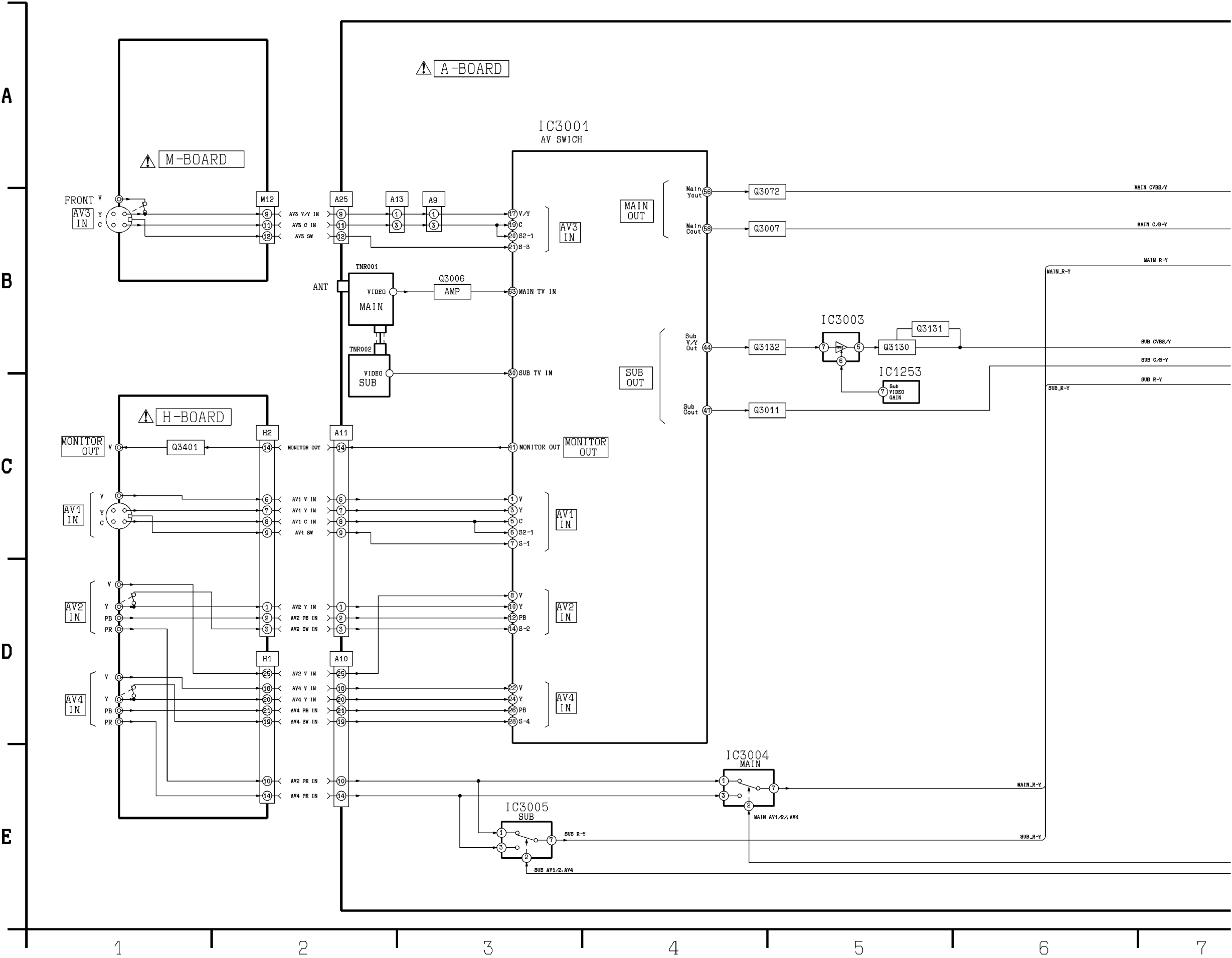
| U-BOARD |     |            |     |
|---------|-----|------------|-----|
| IC      |     | TRANSISTOR |     |
| IC1101  | B-6 | Q1108      | C-3 |
| IC1102  | C-1 | Q1109      | C-3 |
| IC1106  | B-4 | Q1110      | D-3 |
| IC1110  | B-2 | Q1111      | C-3 |
| IC1111  | B-1 | Q1117      | A-5 |
|         |     | Q1118      | A-5 |
|         |     | Q1119      | B-4 |
|         |     | Q1123      | B-1 |
|         |     | Q1125      | A-5 |
|         |     | Q1126      | A-5 |
|         |     | Q1127      | B-6 |

# 13 Block Diagram

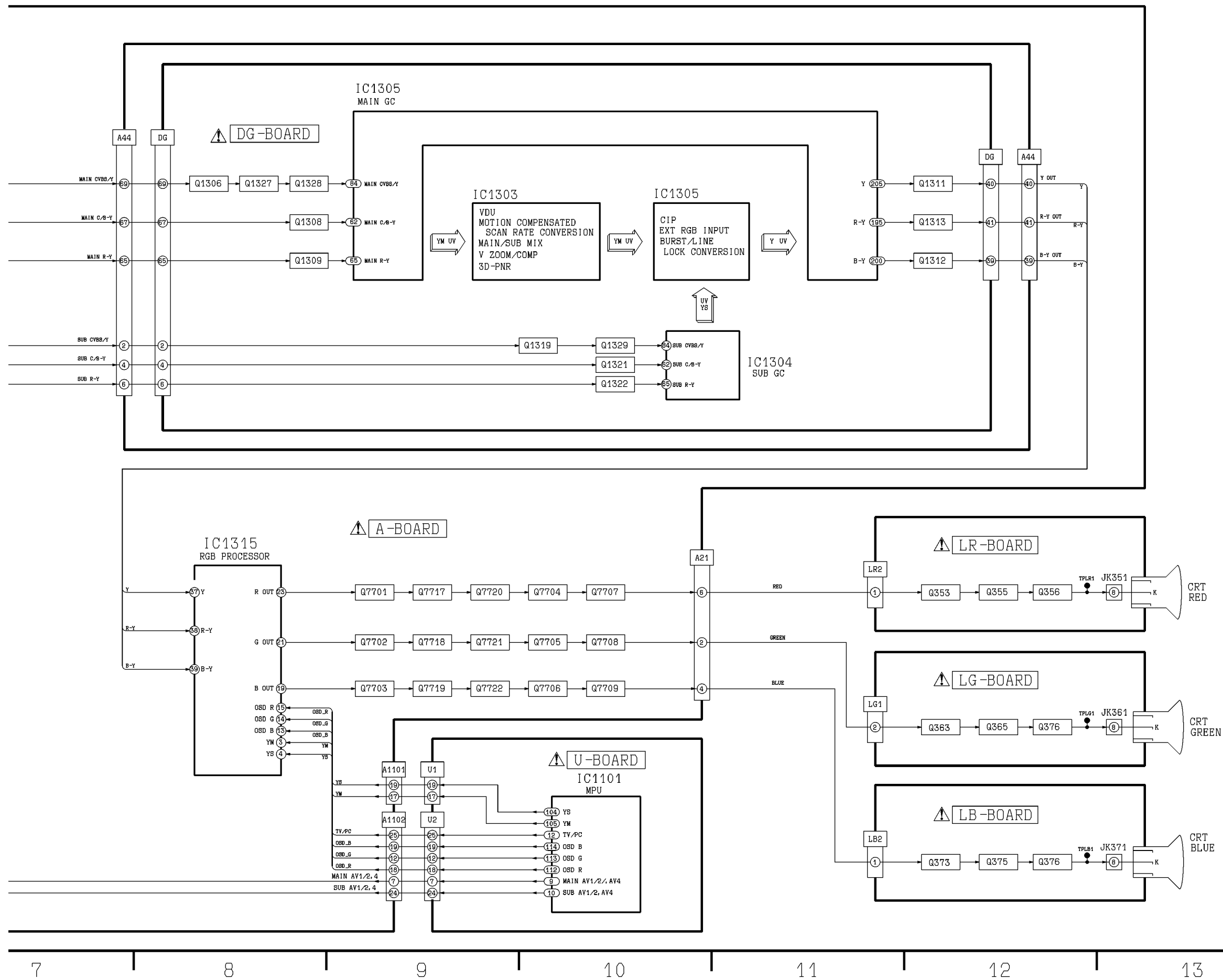
## 13.1. Audio Block Diagram



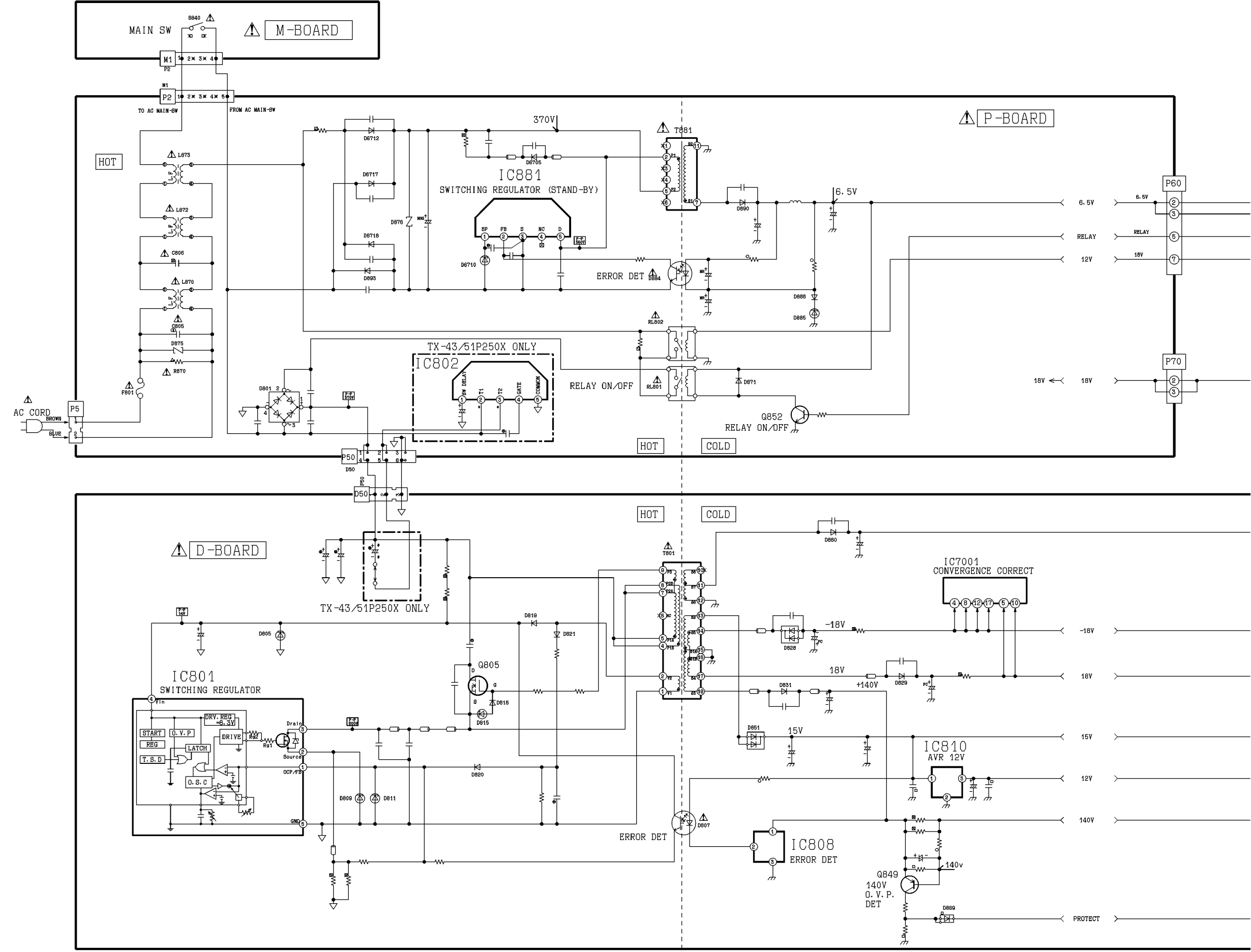
13.2. Video Block Diagram

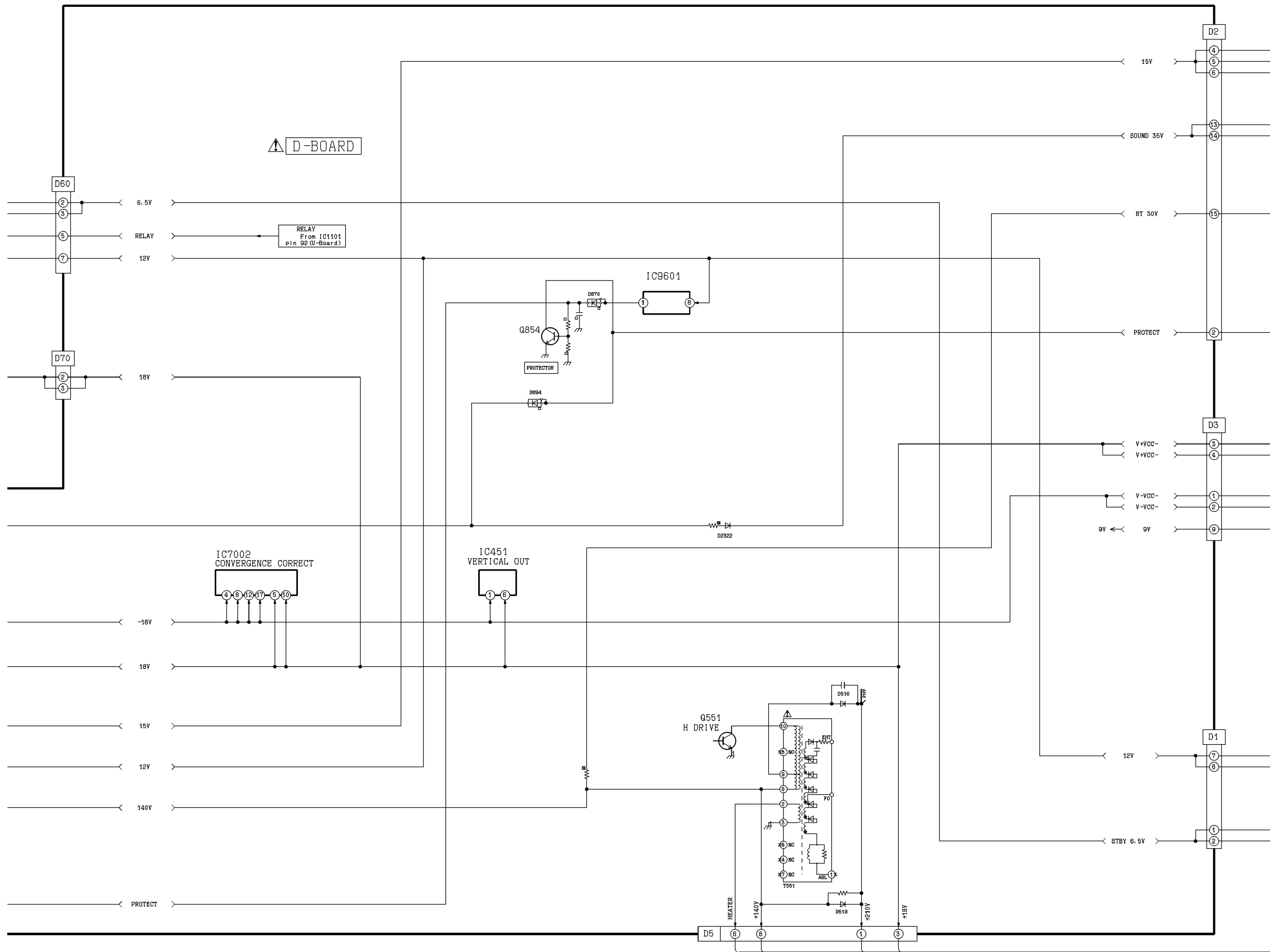


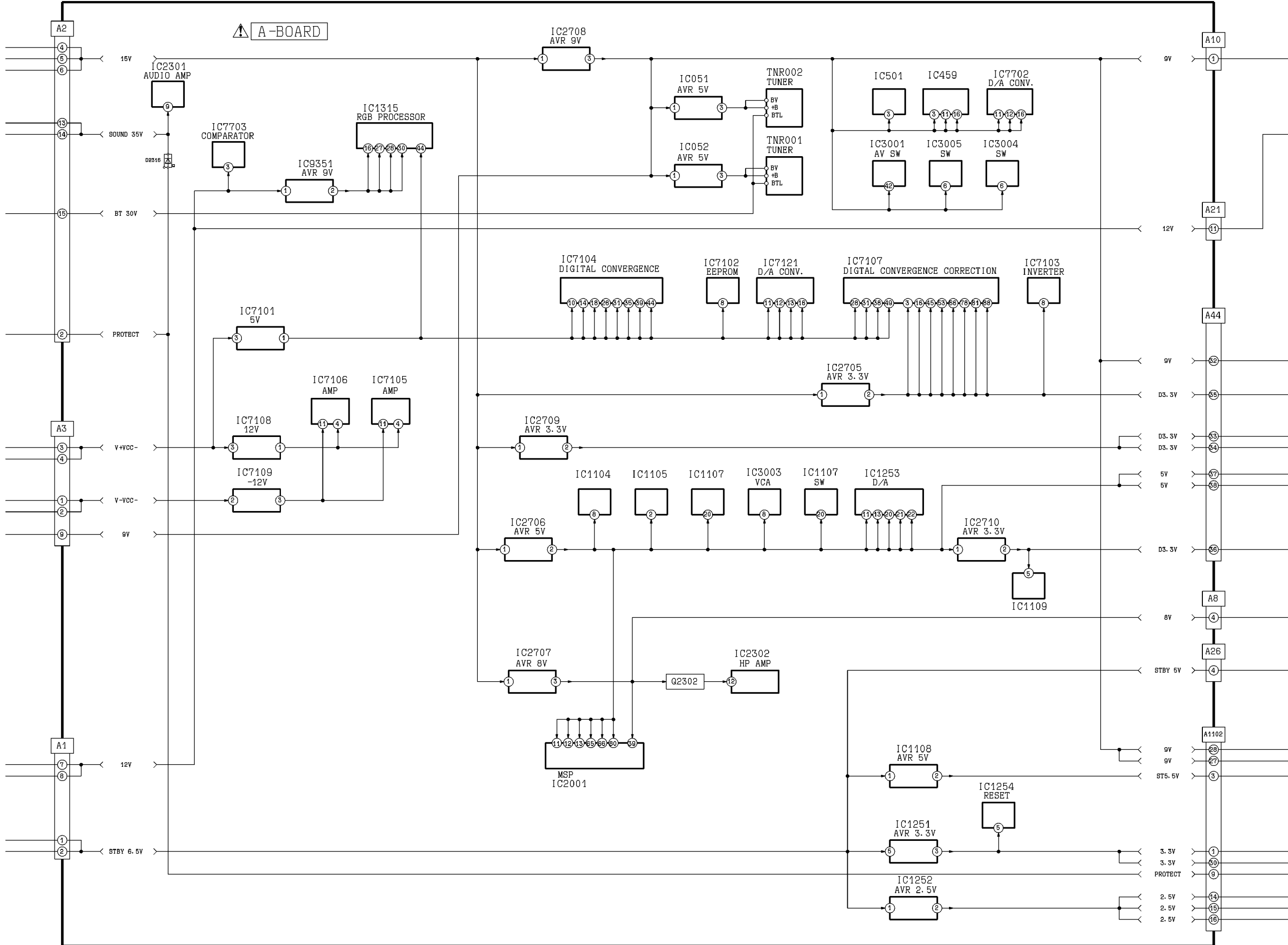


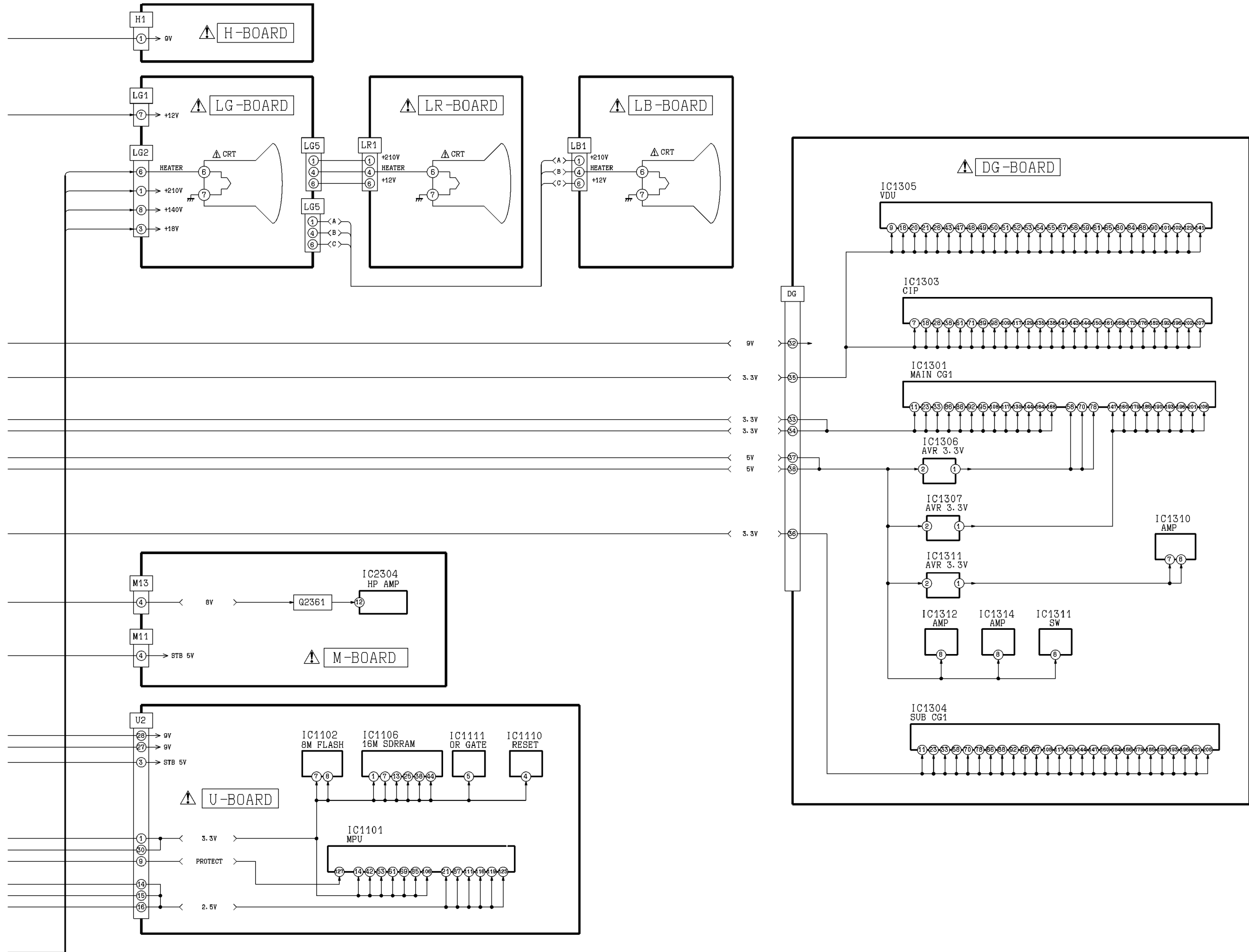


13.3. Power Block Diagram

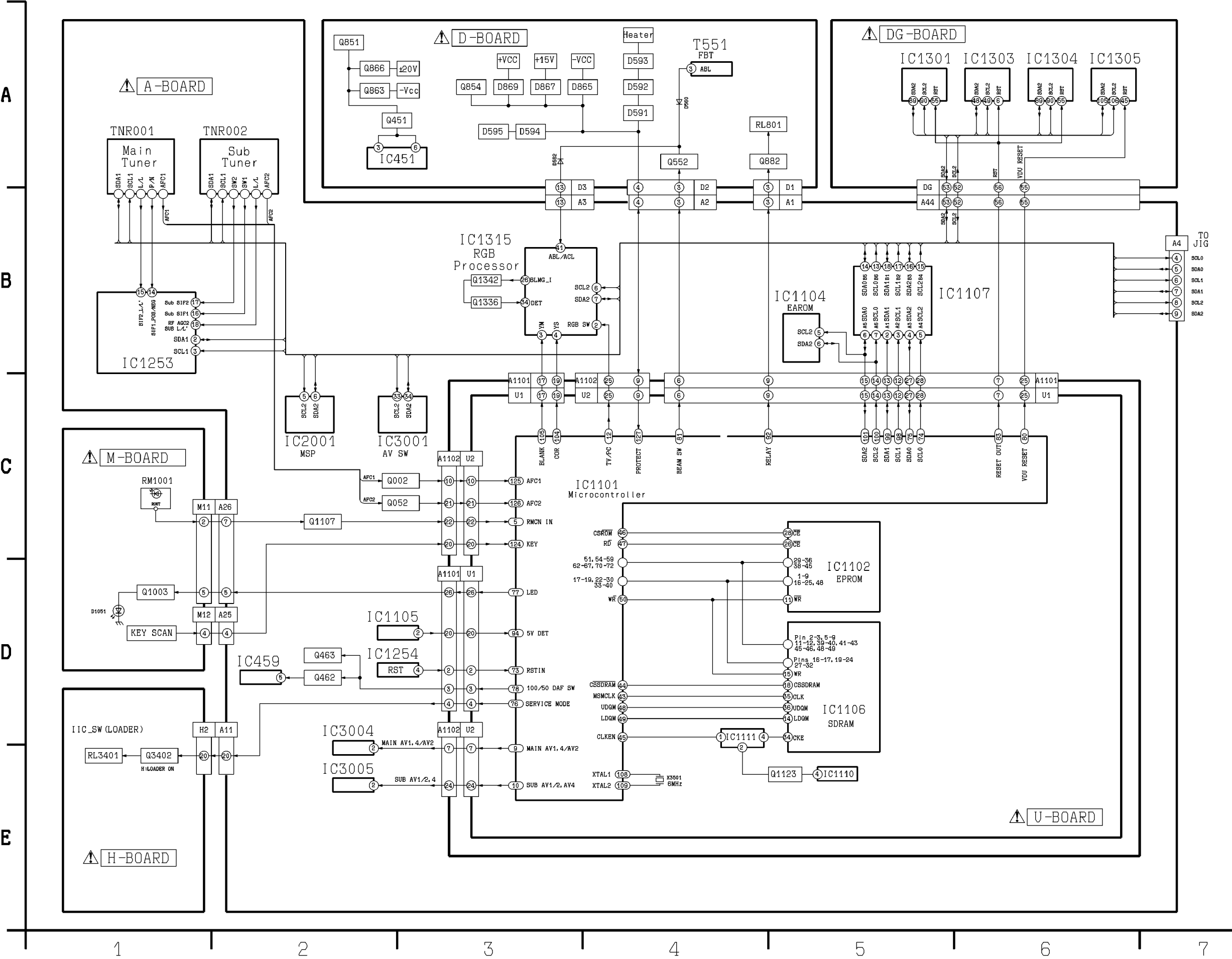








13.4. Control Block Diagram





# 14 Schematic Diagram

## 14.1. Schematic Diagram Notes

### Important Safety Notice

Components identified by  $\Delta$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacture's specified parts.

#### Notes:

##### 1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [ $\Omega$ ] (K=1,000, M=1,000,000).

|             |                |             |               |
|-------------|----------------|-------------|---------------|
| $\bigcirc$  | : Nonflammable | $\boxtimes$ | : Metal Oxide |
| $\triangle$ | : Solid        | $\odot$     | : Metal Film  |
| $\boxplus$  | : Wire Wound   | $\otimes$   | : Fuse:       |

##### 2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is  $\mu$ F, unless otherwise noted.

|                   |                            |                                   |                   |
|-------------------|----------------------------|-----------------------------------|-------------------|
| $\otimes$         | : Temperature Compensation | $\text{---} \text{  } \text{---}$ | : Electrolytic    |
| $\textcircled{M}$ | : Polyester                | $\text{---} \text{  } \text{---}$ | : Bipolar         |
| $\textcircled{m}$ | : Metalized Polyester      | $\textcircled{1}$                 | : Dipped Tantalum |
| $\boxtimes$       | : Polypropylene            | $\textcircled{2}$                 | : Z-Type          |

##### 3. Coil

Unit of inductance is  $\mu$ H, unless otherwise noted.

##### 4. Test Point

$\bigcirc$  : Test Point position

##### 5. Earth Symbol

$\text{---} \text{||} \text{---}$  : Chassis Earth (Cold)  $\downarrow$  : Line Earth (Hot)

##### 6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source .....  
 TX-43/51P250HM/HQ/HZ, TC-51P250H: AC 220V-240V, 50/60Hz  
 TX-43/51P250X : AC 110V-240V, 50/60Hz  
 Receiving Signal ..... Colour Bar signal (RF)  
 All customer's controls ..... Maximum positions

##### 7. Number in red circle indicates waveform number.

(See waveform pattern table.)

##### 8. When arrow mark ( $\nearrow$ ) is found, connection is easily found from the direction of arrow

##### 9. Indicates the major signal flow. : Video $\Rightarrow$ Audio $\Rightarrow$

##### 10. This schematic diagram is the latest at the time of printing and subject to change without notice.

#### Remarks:

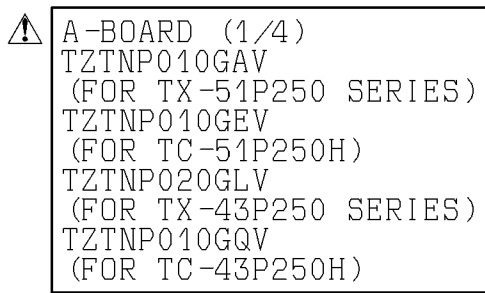
- The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

All circuits, except the Power Circuit, are cold.

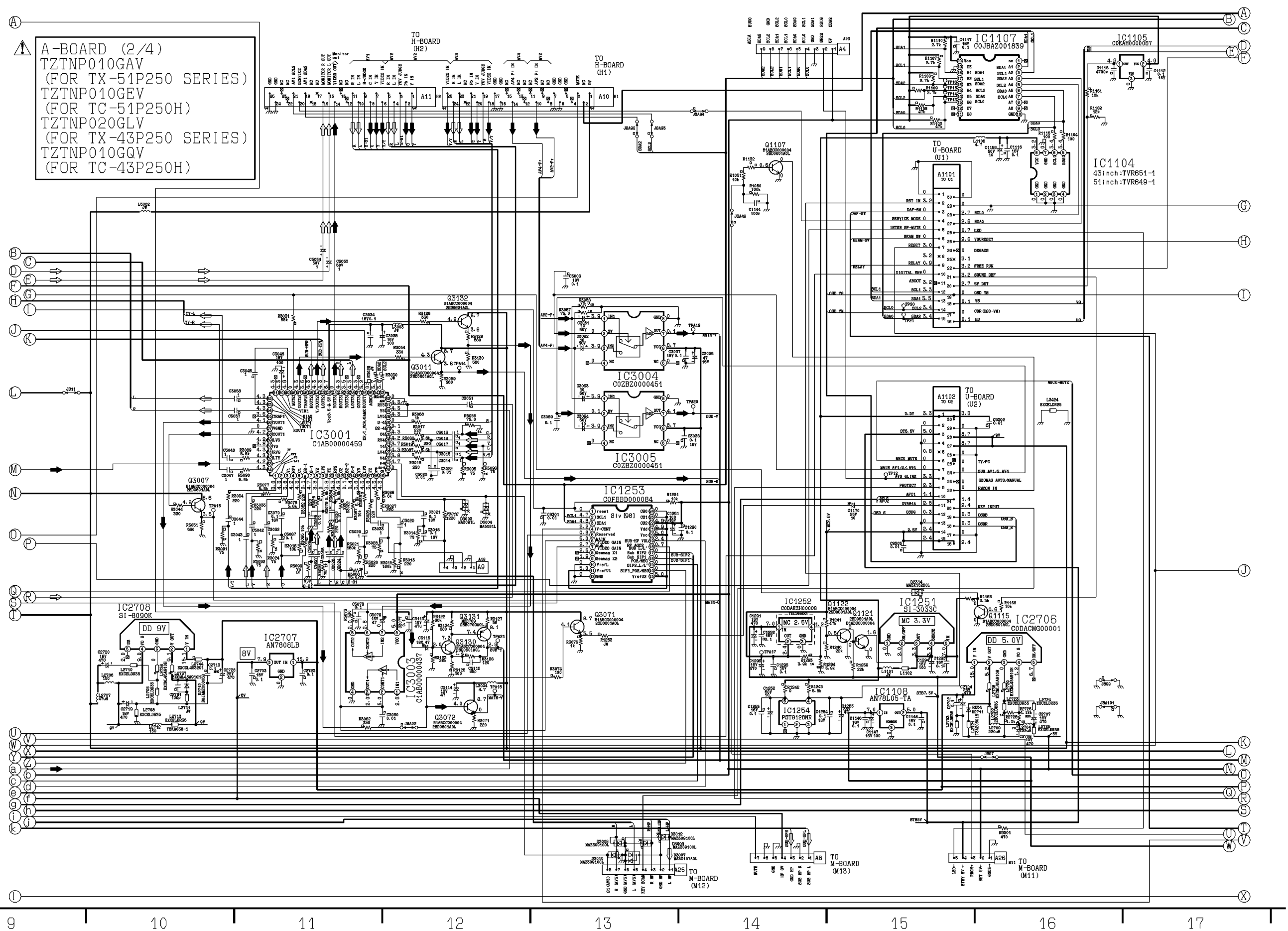
#### Precautions

- Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
  - Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
  - Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.  
Connect the earth of instruments to the earth connection of the circuit being measured.
  - Make sure to disconnect the power plug before removing the chassis.
- Following diodes are interchangeable.  
MA150- MA162 (Replacement part)

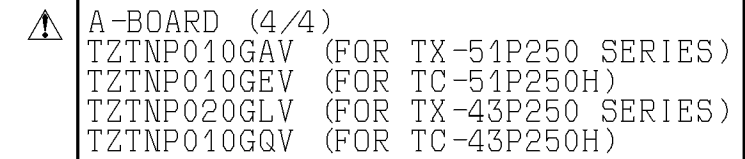




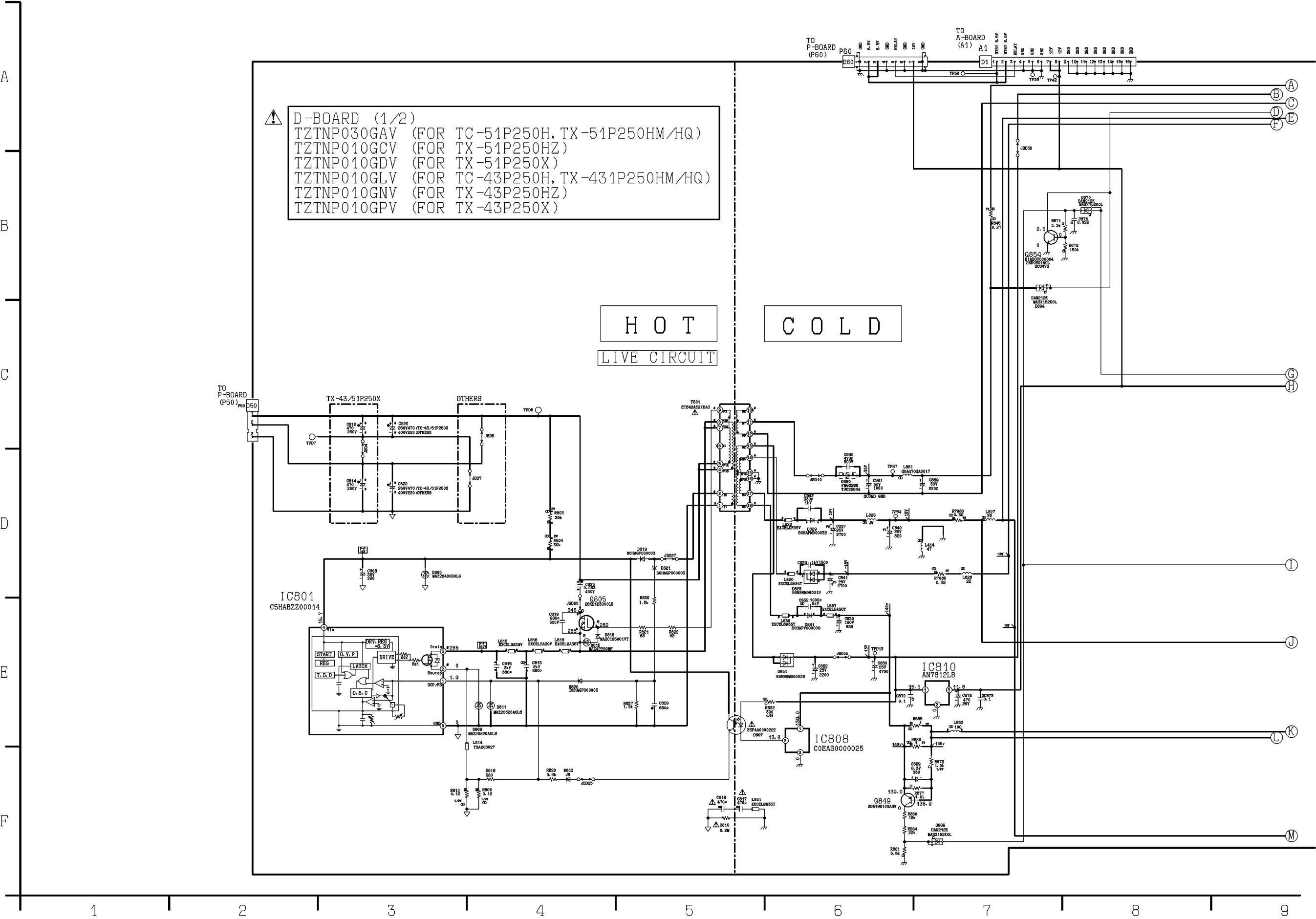
## 14.3. A-Board (2/4) Schematic Diagram



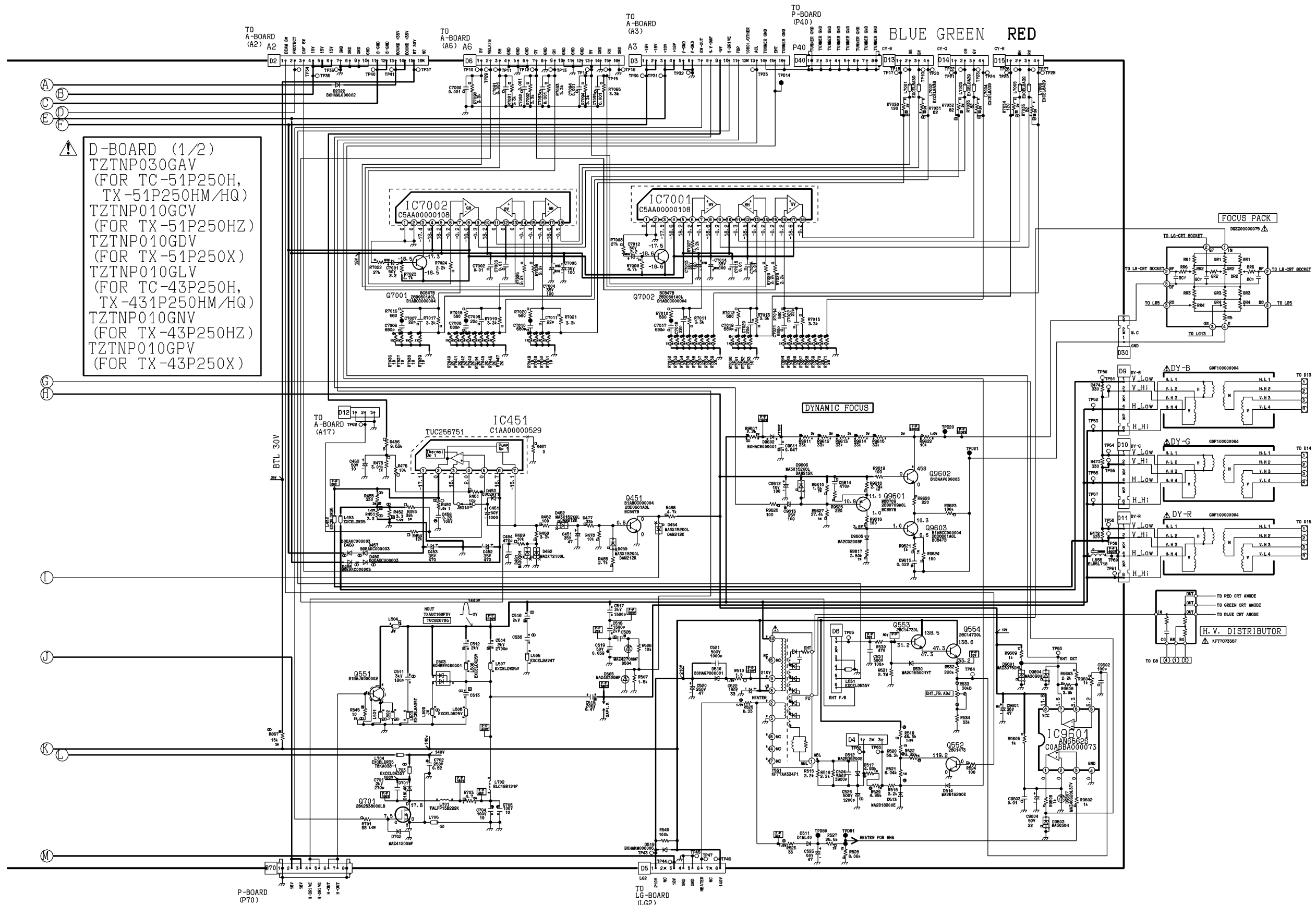




14.6. D-Board (1/2) Schematic Diagram



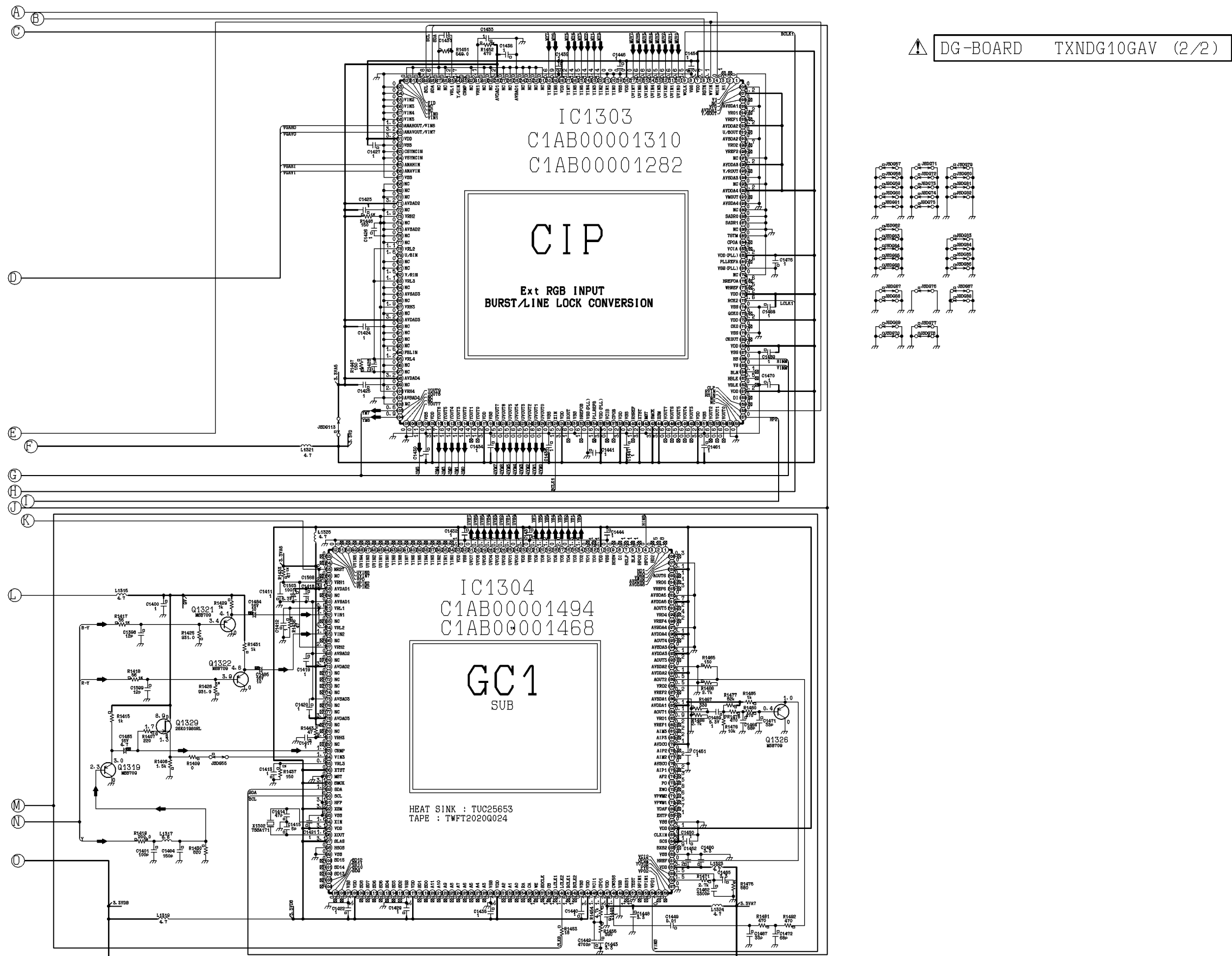
## 14.7. D-Board (2/2) Schematic Diagram



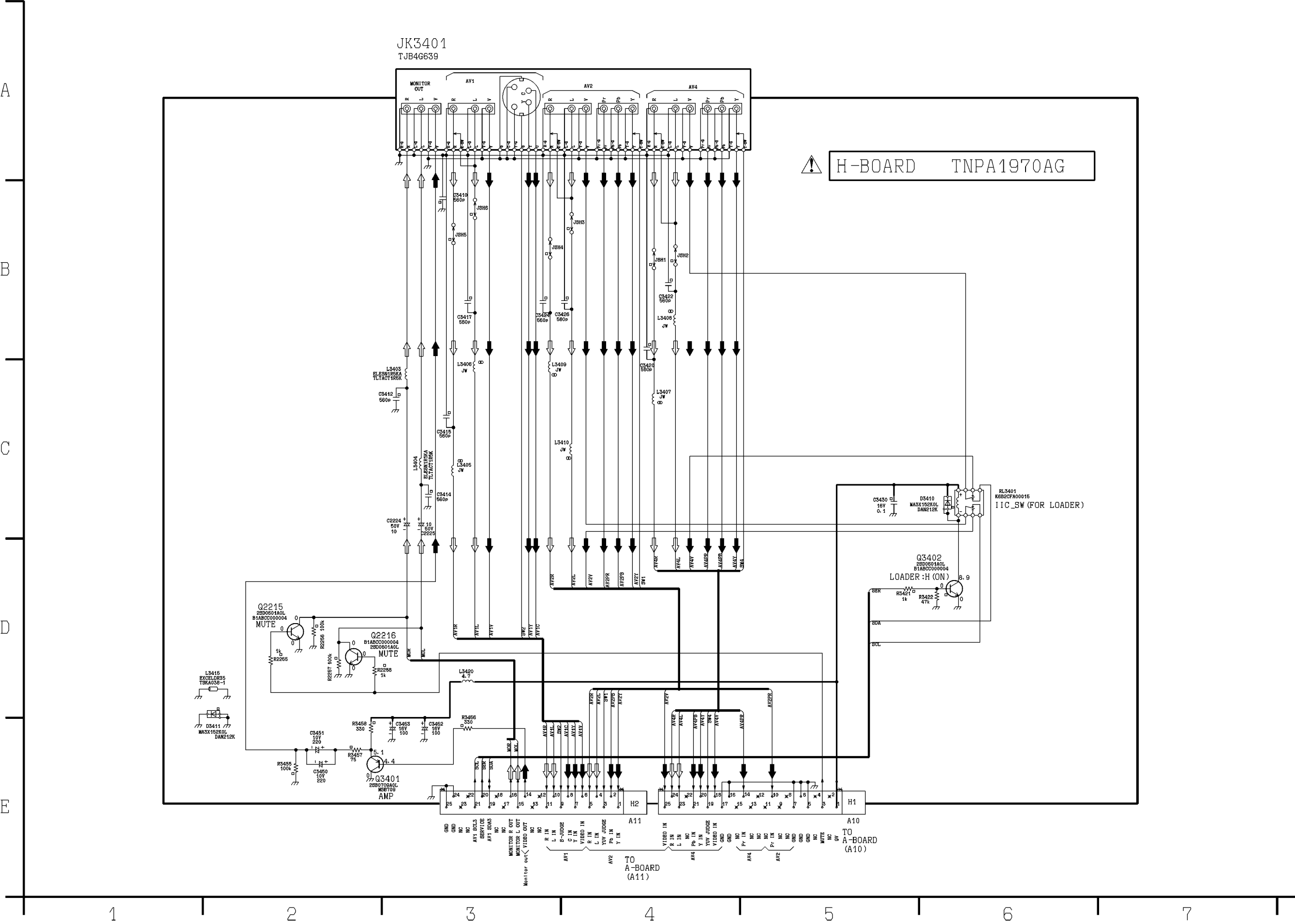




## 14.9. DG-Board (2/2) Schematic Diagram

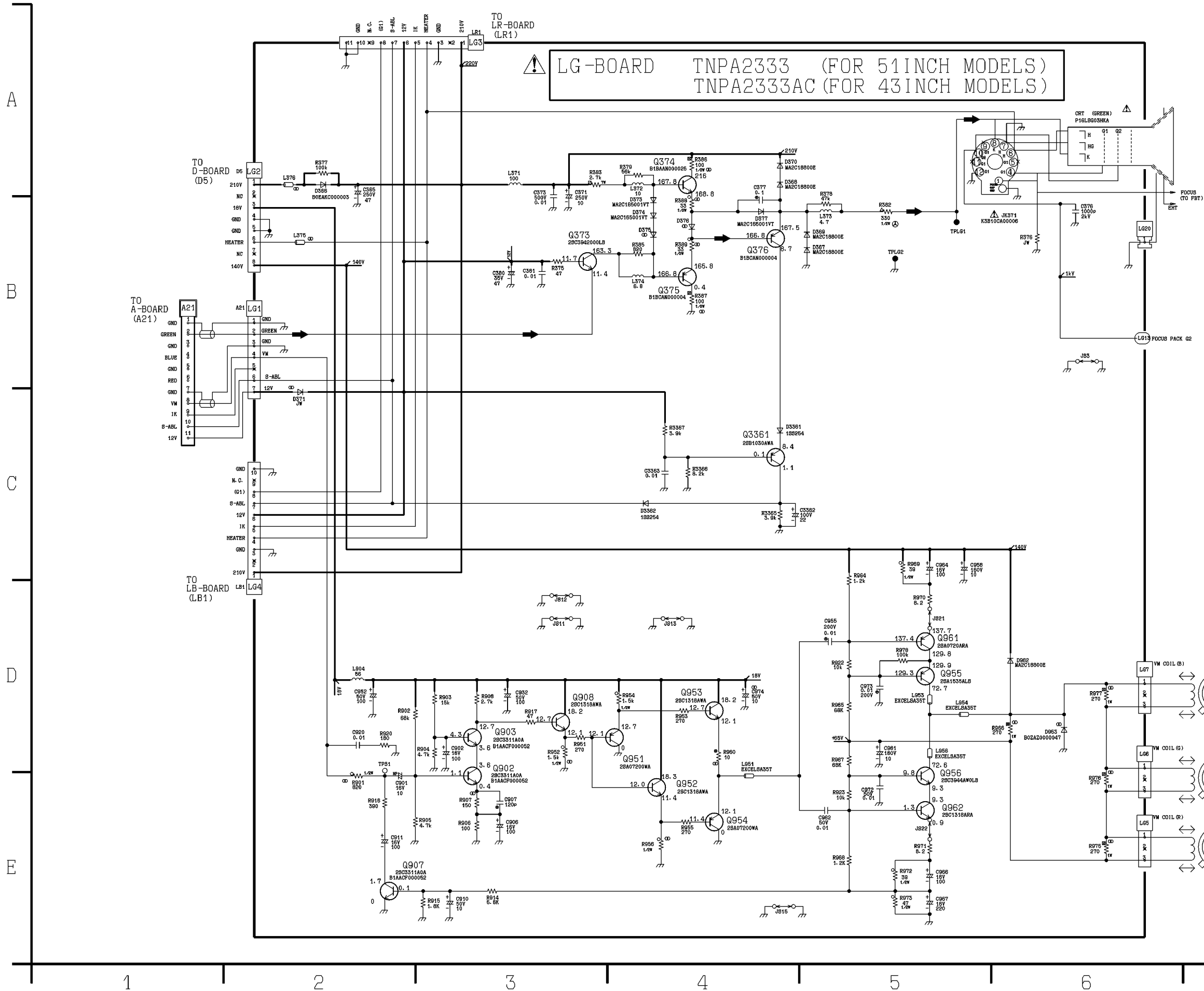


14.10. H-Board Schematic Diagram

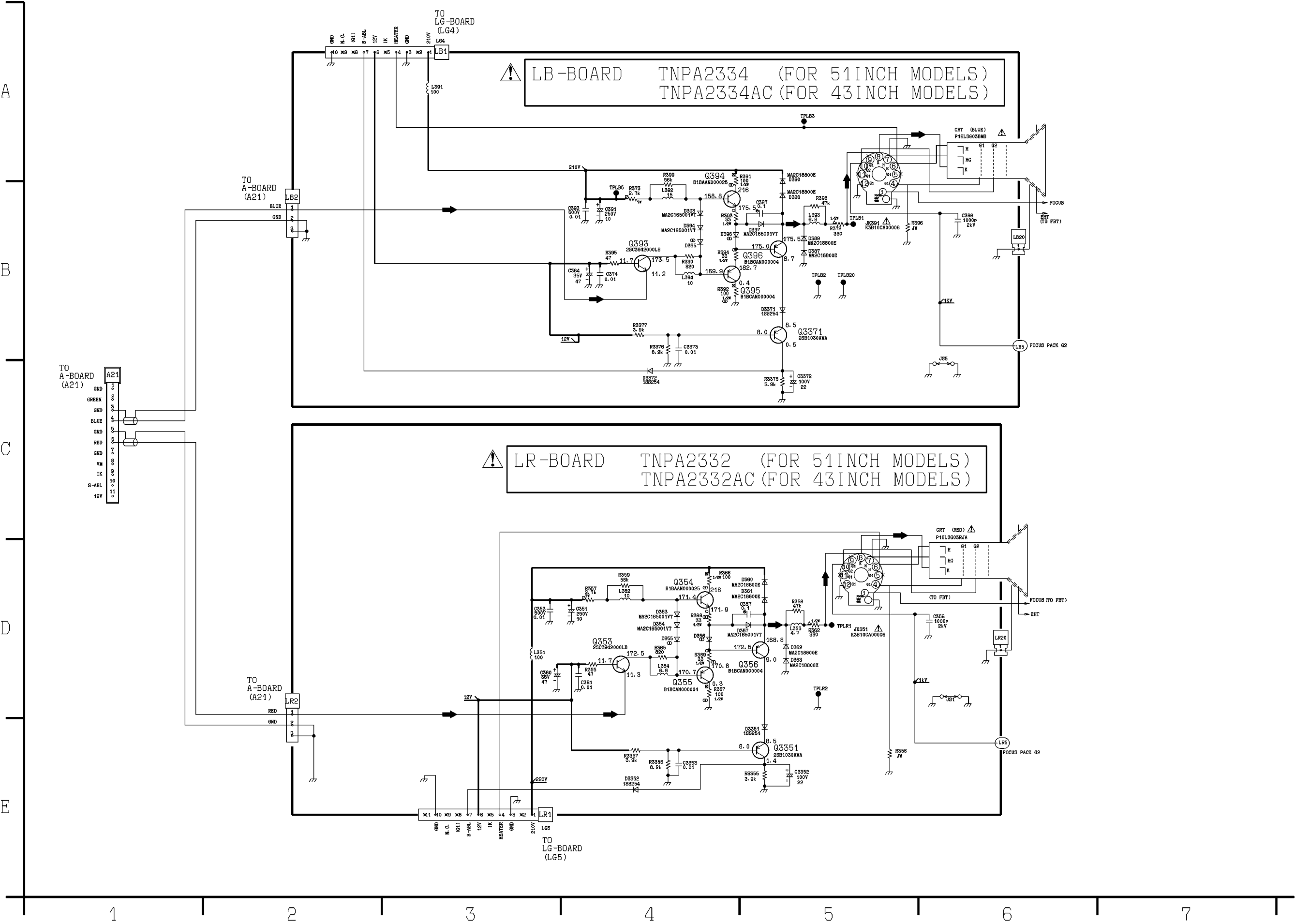




## 14.11. LG-Board Schematic Diagram



14.12. LB and LR-Board Schematic Diagram



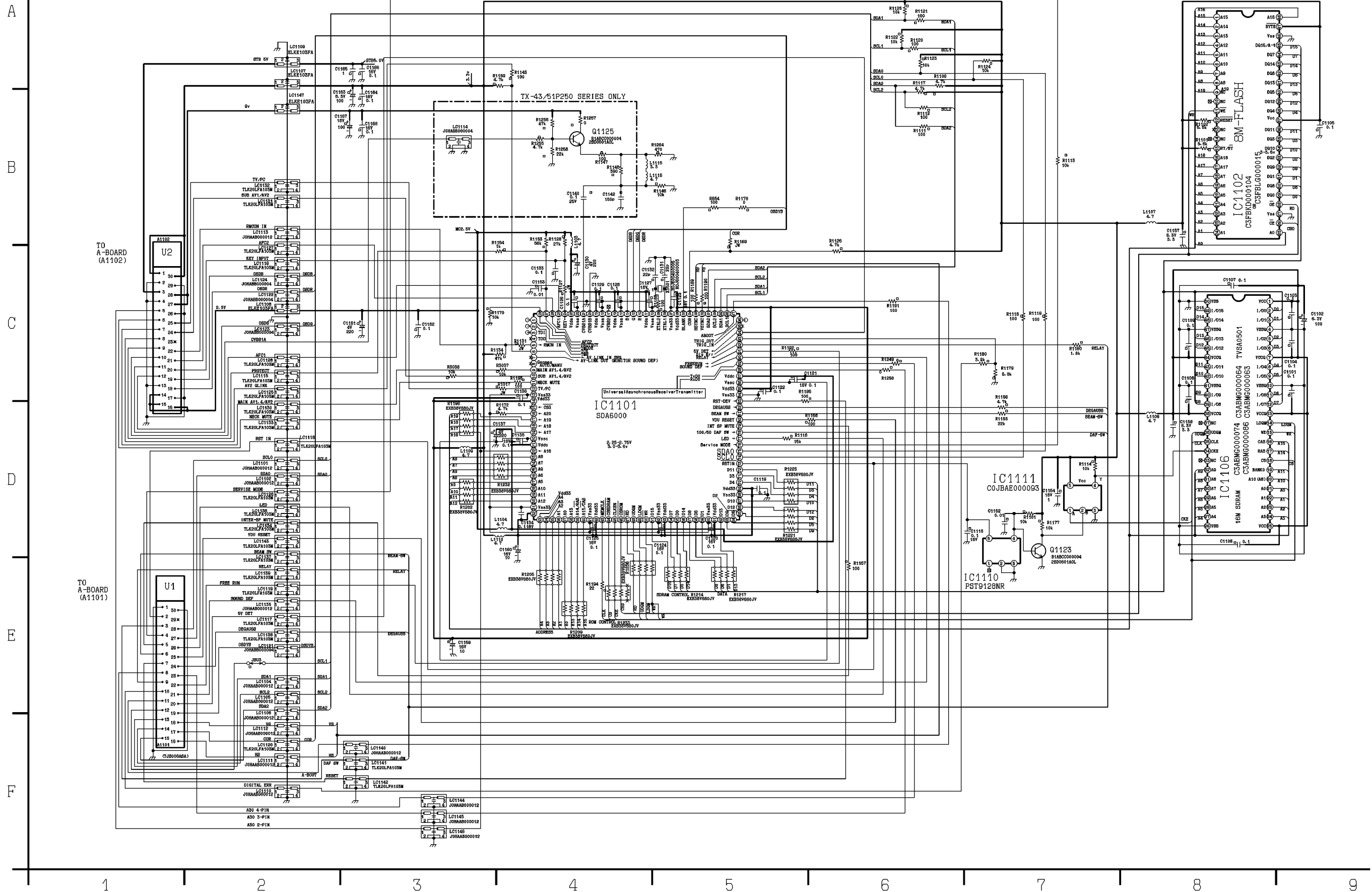




## 14.15. U-Board Schematic Diagram

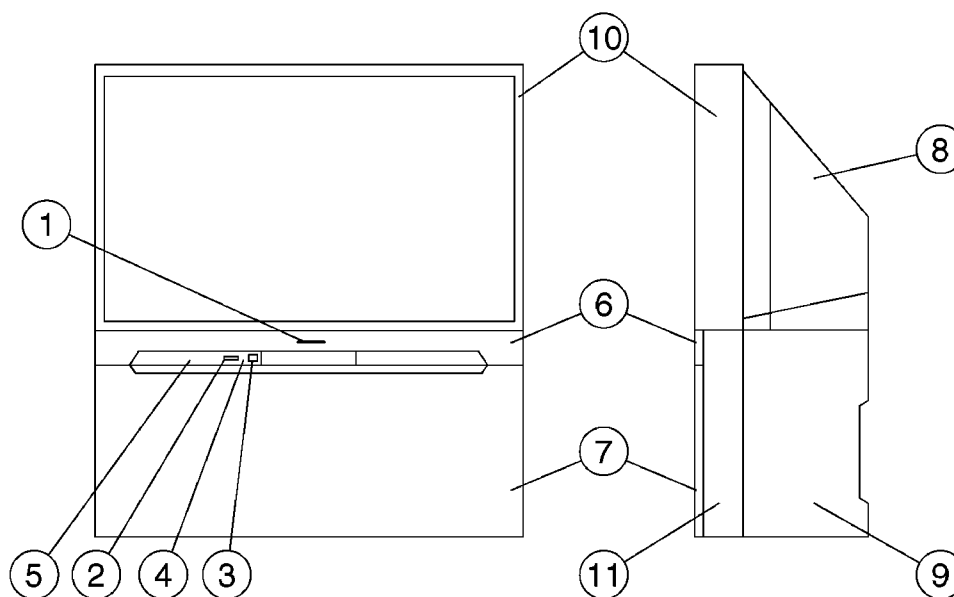


U-BOARD TZTNP020GAV (FOR TX-51P250 SERIES) TNPA2042AU (FOR TX-43P250 SERIES)  
TZTNP020GEV (FOR TC-51P250H) TNPA2042AV (FOR TC-43P250H)





## 15 Parts Location





# 16 Mechanical Replacement Parts List

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                 |
|----------|--------------|-------------------------|-----|-------------------------|
|          | EAS14P125A0  | SPEAKER                 | 2   | 43 INCH MODELS          |
|          | EAST6PH12A6  | SPEAKER (TWEETER)       | 2   | 51 INCH MODELS          |
|          | EUR511250    | REMOTE CONTROLLER       | 1   | TX-43/51P250HM/H Q/HZ/X |
|          | EUR511251    | REMOTE CONTROLLER       | 1   | TC-43/51P250H           |
|          | G0F100000004 | DEFLECTION YOKE         | 3   | △                       |
|          | KFT7CP336F   | HIGH VOLTAGE DIVISION   | 1   | △                       |
|          | L0AA13A00001 | SPEAKER (WOOFER)        | 2   | 51 INCH MODELS          |
|          | TBLB0010     | CASTER                  | 4   |                         |
| 1        | TEMA071      | PANASONIC BADGE         | 1   |                         |
|          | TEME401      | MODEL NAME PLATE        | 1   | TX-51P250HM △           |
|          | TEME406      | MODEL NAME PLATE        | 1   | TX-43P250HM △           |
|          | TEME408      | MODEL NAME PLATE        | 1   | TX-51P250HQ/HZ △        |
|          | TEME410      | MODEL NAME PLATE        | 1   | TX-51P250X △            |
|          | TEME411      | MODEL NAME PLATE        | 1   | TC-51P250H △            |
|          | TEME412      | MODEL NAME PLATE        | 1   | TX-43P250HQ/HZ △        |
|          | TEME414      | MODEL NAME PLATE        | 1   | TX-43P250X △            |
|          | TEME415      | MODEL NAME PLATE        | 1   | TC-43P250H △            |
| 2        | TEXA33501    | POWER BUTTON            | 1   | 43 INCH MODELS          |
| 2        | TEXA33502    | POWER BUTTON            | 1   | 51 INCH MODELS          |
|          | TEK6940      | DOOR SWITCH             | 1   |                         |
|          | TEKC011      | DAMPER                  | 1   |                         |
|          | TES6583      | SPRING FOR TR           | 2   |                         |
|          | TESA031      | SPRING                  | 1   |                         |
|          | THT1062      | SCREW                   | 6   |                         |
|          | THTA006Z     | SCREW                   | 33  |                         |
|          | TJS2A8420    | AC ADAPTOR              | 1   | TX-43/51P250X           |
|          | TKGF0007     | LENS (G)                | 1   | 51 INCH MODELS          |
|          | TKGF0013     | LENS (R)                | 1   | 51 INCH MODELS          |
|          | TKGF0014     | LENS (B)                | 1   | 51 INCH MODELS          |
|          | TKGF0024     | LENS (R)                | 1   | 43 INCH MODELS          |
|          | TKGF0025     | LENS (G)                | 1   | 43 INCH MODELS          |
|          | TKGF0026     | LENS (B)                | 1   | 43 INCH MODELS          |
|          | TKGH5052     | SCREEN                  | 1   | 51 INCH MODELS          |
|          | TKGH5053     | SCREEN                  | 1   | 51 INCH MODELS          |
|          | TKGH5055     | SCREEN                  | 1   | 43 INCH MODELS          |
|          | TKGH5056     | SCREEN                  | 1   | 43 INCH MODELS          |
|          | TKGJ5019-1   | MIRROR                  | 1   | 51 INCH MODELS          |
|          | TKGJ5020     | MIRROR                  | 1   | 43 INCH MODELS          |
|          | TKJC005      | SPEAKER BORAD (LEFT)    | 1   | 43 INCH MODELS          |
|          | TKJC006      | SPEAKER BORAD (RGHIT)   | 1   | 43 INCH MODELS          |
|          | TKJC007      | SPEAKER BORAD (LEFT)    | 1   | 51 INCH MODELS          |
|          | TKJC008      | SPEAKER BORAD (RGHIT)   | 1   | 51 INCH MODELS          |
| 3        | TKKC5126     | REMOCON RECEIVER PANEL  | 1   |                         |

| Ref. No. | Part No.   | Part Name & Description | Pcs | Remarks        |
|----------|------------|-------------------------|-----|----------------|
|          | TKKF5046-1 | COVER                   | 1   |                |
|          | TKKH5061   | COVER                   | 2   |                |
|          | TKKL5088   | AC CORD COVER           | 1   |                |
|          | TKP0AA4301 | REAR TERMINAL BOARD     | 1   |                |
|          | TKPA55402  | FRONT DOOR              | 1   |                |
|          | TLHX015    | R/G/B COIL              | 3   |                |
|          | TMK15943   | INSULATOR               | 1   |                |
|          | TMK15945   | INSULATOR               | 1   |                |
|          | TMM14444   | CLAMPER                 | 1   |                |
|          | TMM16452   | CLAMPER                 | 6   |                |
|          | TMM16452   | CLAMPER                 | 1   |                |
|          | TMM16473-1 | CLAMPER                 | 4   |                |
|          | TMM16473-1 | CLAMPER                 | 1   |                |
|          | TMM16480-1 | CLAMPER                 | 1   |                |
|          | TMM16480-1 | CLAMPER                 | 2   |                |
|          | TMM16497-1 | CLAMPER                 | 8   |                |
|          | TMM3565    | RUBBER CAP              | 4   |                |
|          | TMM6463-1  | CLAMPER                 | 6   |                |
|          | TMM7464-2  | CLAMPER                 | 4   |                |
|          | TMM7468-1  | CLAMPER                 | 1   |                |
|          | TMM76403-1 | CLAMPER                 | 1   | 51 INCH MODELS |
|          | TMM76430-1 | CLAMPER                 | 2   |                |
|          | TMME047    | CLAMPER                 | 1   |                |
|          | TMMX016    | CLAMPER                 | 1   |                |
|          | TMMX027-2  | HOLDER                  | 1   |                |
|          | TMW0A706-1 | PC SUPORT               | 1   |                |
| 4        | TMWJ017    | LED HOLDER              | 1   |                |
|          | TNXXB003   | FOCUS VR BLOCK          | 1   | D9ZZ00000075 △ |
|          | TPCA79412  | CARTON BOX              | 1   | TX-51P250HM    |
|          | TPCA79413  | CARTON BOX              | 1   | TX-51P250HQ    |
|          | TPCA79414  | CARTON BOX              | 1   | TX-51P250HZ    |
|          | TPCA79415  | CARTON BOX              | 1   | TX-51P250X     |
|          | TPCA79416  | CARTON BOX              | 1   | TC-51P250H     |
|          | TPCA79501  | BOTTOM CARTON           | 1   | 51 INCH MODELS |
|          | TPCA87506  | CARTON BOX              | 1   | TX-43P250HM    |
|          | TPCA87507  | CARTON BOX              | 1   | TX-43P250HQ    |
|          | TPCA87508  | CARTON BOX              | 1   | TX-43P250HZ    |
|          | TPCA87509  | CARTON BOX              | 1   | TX-43P250X     |
|          | TPCA87510  | CARTON BOX              | 1   | TC-43P250H     |
|          | TPCA87601  | CARTON BOX (BOTTOM)     | 1   | 43 INCH MODELS |
|          | TPD169487  | JOINT                   | 4   |                |
|          | TPD169564  | JOINT                   | 2   |                |
|          | TPDA0359-1 | CUSHION (UPPER)         | 1   | 51 INCH MODELS |
|          | TPDA0360-1 | CUSHION (BOTTOM)        | 1   | 51 INCH MODELS |
|          | TPDA0361   | CUSHION (TOP)           | 1   | 51 INCH MODELS |
|          | TPDA0362-1 | CUSHION (FRONT)         | 1   | 51 INCH MODELS |
|          | TPDA0363-1 | CUSHION (REAR)          | 1   | 51 INCH MODELS |
|          | TPDA0389   | CUSHION (UPPER)         | 1   | 43 INCH MODELS |
|          | TPDA0390   | CUSHION (BOTTOM)        | 1   | 43 INCH MODELS |
|          | TPDA0391   | CUSHION (FRONT)         | 1   | 43 INCH MODELS |
|          | TPDA0392   | CUSHION (REAR)          | 1   | 43 INCH MODELS |
|          | TPDF0199   | CUSHION                 | 2   | 51 INCH MODELS |
|          | TPDF0416   | CUSHION (TOP)           | 1   | 51 INCH MODELS |
|          | TPDF0451   | CUSHION (TOP)           | 1   | 43 INCH MODELS |
|          | TPDF0844   | CUSHION                 | 2   | 43 INCH MODELS |
|          | TPEH090    | PROTECT COVER           | 1   |                |



| Ref. No. | Part No.   | Part Name & Description    | Pcs | Remarks                    |
|----------|------------|----------------------------|-----|----------------------------|
|          | TPEH132-1  | SET COVER                  | 1   |                            |
|          | TQBC0279-1 | INSTRUCTION BOOK (ENGLISH) | 1   |                            |
|          | TQBC0280   | INSTRUCTION BOOK (CHINA)   | 1   |                            |
|          | TQBC0281-1 | INSTRUCTION BOOK (ARABIC)  | 1   |                            |
|          | TSX1495    | AC POWER CORD              | 1   | TX-43/51P250HQ/HZ $\Delta$ |
|          | TSX5132-2  | AC POWER CORD              | 1   | TX-43/51P250HM $\Delta$    |
|          | TSX5134-3  | AC POWER CORD              | 1   | TX-43/51P250X $\Delta$     |
|          | TSXA106    | AC POWER CORD              | 1   | TC-43/51P250H $\Delta$     |
| 5        | TTPA0209   | CONTROL PANEL              | 1   | 51 INCH MODELS             |
| 6        | TTPA0210   | ORNAMENT PANEL             | 1   | TX-51P250HM/HQ/HZ          |
| 7        | TTPA0211   | SPEAKER GRILLE             | 1   | 51 INCH MODELS             |
| 5        | TTPA0212   | CONTROL PANEL              | 1   | 43 INCH MODELS             |
| 6        | TTPA0213   | ORNAMENT PANEL             | 1   | TX-43P250HM/HQ/HZ          |
| 7        | TTPA0214   | SPEAKER GRILL              | 1   | 43 INCH MODELS             |
| 6        | TTPA0217   | ORNAMENT PANEL             | 1   | TX-51P250X                 |
| 6        | TTPA0218   | ORNAMENT PANEL             | 1   | TC-51P250H                 |
| 6        | TTPA0222   | ORNAMENT PANEL             | 1   | TX-43P250X                 |
| 6        | TTPA0223   | ORNAMENT PANEL             | 1   | TC-43P250H                 |
| 8        | TTUA0342-1 | REAR COVER (TOP)           | 1   | 51 INCH MODELS             |
| 8        | TTUA0358   | REAR COVER (TOP)           | 1   | 43 INCH MODELS             |
| 9        | TTUA0452   | REAR COVER (BOTTOM)        | 1   | TX-51P250HM                |
| 9        | TTUA0453   | REAR COVER (BOTTOM)        | 1   | TX-43P250HM                |
| 9        | TTUA0454   | REAR COVER (BOTTOM)        | 1   | TX-51P250HQ/HZ             |
| 9        | TTUA0456   | REAR COVER (BOTTOM)        | 1   | TX-51P250X                 |
| 9        | TTUA0457   | REAR COVER (BOTTOM)        | 1   | TC-51P250H                 |
| 9        | TTUA0458   | REAR COVER (BOTTOM)        | 1   | TX-43P250HQ/HZ             |

| Ref. No. | Part No.    | Part Name & Description | Pcs | Remarks        |
|----------|-------------|-------------------------|-----|----------------|
| 9        | TTUA0460    | REAR COVER (BOTTOM)     | 1   | TX-43P250X     |
| 9        | TTUA0461    | REAR COVER (BOTTOM)     | 1   | TC-43P250H     |
| 10       | TTYA0368    | CABINET (TOP)           | 1   | 51 INCH MODELS |
| 10       | TTYA0394    | CABINET (TOP)           | 1   | 43 INCH MODELS |
| 11       | TTYA0479    | CABINET (BOTTOM)        | 1   | 51 INCH MODELS |
| 11       | TTYA0481    | CABINET (BOTTOM)        | 1   | 43 INCH MODELS |
|          | TUA0A0500-1 | CHASSIS FRAME           | 1   |                |
|          | TVVAB10GAV  | PICTURE TUBE (B)        | 1   | 51 INCH MODELS |
|          | TVVAB10GLV  | PICTURE TUBE (B)        | 1   | 43 INCH MODELS |
|          | TVVAG10GAV  | PICTURE TUBE (G)        | 1   | 51 INCH MODELS |
|          | TVVAG10GLV  | PICTURE TUBE (G)        | 1   | 43 INCH MODELS |
|          | TVVAR10GAV  | PICTURE TUBE (R)        | 1   | 51 INCH MODELS |
|          | TVVAR10GLV  | PICTURE TUBE (R)        | 1   | 43 INCH MODELS |
|          | TXAJS02ZEH  | IF CABLE                | 1   |                |
|          | XTB4+10J    | SCREW                   | 11  |                |
|          | XTB4+12A    | SCREW                   | 3   |                |
|          | XTB4+15A    | SCREW                   | 6   |                |
|          | XTBT964     | SCREW                   | 35  |                |
|          | XTV3+10J    | SCREW                   | 8   |                |
|          | XTV3+12A    | SCREW                   | 8   |                |
|          | XTV3+12G    | SCREW                   | 5   |                |
|          | XTV3+12GFZ  | SCREW                   | 3   |                |
|          | XTV3+6J     | SCREW                   | 2   |                |
|          | XTW3+10T    | SCREW                   | 30  |                |
|          | XTW3+8T     | SCREW                   | 2   |                |
|          | XTW4+Z15D   | SCREW                   | 6   |                |
|          | XWC8B       | WASHER                  | 1   |                |
|          | XYN3+C8     | SCREW                   | 1   |                |
|          | XYN3+F10    | SCREW                   | 2   |                |
|          | XYN3+F12    | SCREW                   | 2   |                |
|          | XYN3+F16    | SCREW                   | 4   |                |
|          | XYN3+F8     | SCREW                   | 1   |                |
|          | XYN3+J8     | SCREW                   | 20  |                |
|          | XYN4+F14    | SCREW                   | 12  |                |
|          | XYN5+F16    | SCREW                   | 12  |                |
|          | XZBT6506    | POLY BAG                | 1   |                |

# 17 Electrical Replacement Parts List

## 17.1. Replacement Parts List Notes

### Important Safety Notice

*Components identified by  $\triangle$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.*

#### RTL (Retention Time Limited)

**Note:** The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

#### 1. Resistor

Example:

ERD25TJ104    C 100KOHM, J, 1/4W  
                                 Type                  Allowance

#### 2. Capacitor

Example:

ECKF1H103ZF    C 0.01UF, Z, 50V  
                                 Type                  Allowance

| Type            | Allowance      |
|-----------------|----------------|
| C : Carbon      | F : $\pm 1\%$  |
| F : Fuse        | G : $\pm 2\%$  |
| M : Metal Oxide | J : $\pm 5\%$  |
| Metal Film      | K : $\pm 10\%$ |
| S : Solid       | M : $\pm 20\%$ |
| W : Wire Wound  |                |

| Type             | Allowance               |
|------------------|-------------------------|
| C : Ceramic      | C : $\pm 0.25\text{pF}$ |
| E : Electrolytic | D : $\pm 0.5\text{pF}$  |
| P : Polyester    | F : $\pm 1\text{pF}$    |
| Polypropylene    | G : $\pm 3\text{pF}$    |
|                  | J : $\pm 5\text{pF}$    |
| T : Tantalum     | K : $\pm 10\text{pF}$   |
|                  | L : $\pm 15\text{pF}$   |
|                  | M : $\pm 20\text{pF}$   |
|                  | P : +100%, -0%          |
|                  | Z : +80%, -20%          |

## 17.2. Electrical Replacement Parts List

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                       |
|----------|--------------|-------------------------|-----|-------------------------------|
| n        | 01           | **CM NOTHING**          | 1   | (RTL)                         |
| n        | 01           | **CM NOTHING**          | 1   | (RTL)                         |
| A1-A3    | TJSF19916    | 16P CONNECTOR           | 3   | K1KA16A00119                  |
| A4       | TJS1A8150    | 9P CONNECTOR            | 1   | K1KA09B00019                  |
| A5       | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171                  |
| A6       | TJSF19916    | 16P CONNECTOR           | 1   | K1KA16A00119                  |
| A8       | TJS3A9680    | 7P CONNECTOR            | 1   | K1KA07A00095                  |
| A9       | TJS3A9650    | 4P CONNECTOR            | 1   | K1KA04A00194                  |
| A10,11   | TJSF17325    | 25P CONNECTOR           | 2   | K1KB25B00006                  |
| A17      | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171                  |
| A21      | TJS3A9910    | 11P CONNECTOR           | 1   | K1KA11A00059                  |
| A22      | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171<br>43 INCH MODEL |
| A22      | TJS3A9660    | 5P CONNECTOR            | 1   | K1KA05A00138<br>51 INCH MODEL |
| A23      | TJS3A9650    | 4P CONNECTOR            | 1   | K1KA04A00194                  |
| A25      | TJS3A9880    | 8P CONNECTOR            | 1   | K1KA08A00179                  |
| A26      | TJS3A9660    | 5P CONNECTOR            | 1   | K1KA05A00138                  |
| A31      | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171                  |
| A44      | TJSF57570    | 70P CONNECTOR           | 1   |                               |
| A1101,02 | K1KA30A00128 | 30P CONNECTOR           | 2   |                               |
| C001     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C002     | ECA1HML100   | E 10UF, 50V             | 1   |                               |
| C003     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C008     | ECJ2XB1H103K | C 0.01UF, K, 50V        | 1   |                               |
| C012     | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |                               |
| C013     | ECA0JML102   | E 1000UF, 6.3V          | 1   |                               |
| C014     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C018     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C020     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C022,23  | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |                               |
| C024     | ECA1CML101   | E 100UF, 16V            | 1   |                               |
| C025     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |                               |
| C026     | ECJ2XB1H103K | C 0.01UF, K, 50V        | 1   |                               |
| C051     | ECEA1HN010U  | E 1UF, 50V              | 1   |                               |
| C057     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C062,63  | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |                               |
| C064     | ECA1HML100   | E 10UF, 50V             | 1   |                               |
| C068     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C069     | ECA1CHG101   | E 100UF, 16V            | 1   |                               |
| C070     | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |                               |
| C071     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                               |
| C081     | ECJ2VB1H273K | C 0.027UF, K, 50V       | 1   |                               |
| C351     | ECA2EM100    | E 10UF, 250V            | 1   |                               |
| C353     | ECKD2H103PU  | C 0.01UF, P, 500V       | 1   |                               |
| C356     | ECKD3D102KBN | C 1000PF, K, 2KV        | 1   |                               |
| C357     | ECQB1H104KF  | P 0.1UF, K, 50V         | 1   |                               |
| C360     | ECA1VM470    | E 47UF, 35V             | 1   |                               |
| C361     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                               |
| C364     | ECA1VM470    | E 47UF, 35V             | 1   |                               |
| C365     | ECA2EM470    | E 47UF, 250V            | 1   |                               |
| C371     | ECA2EM100    | E 10UF, 250V            | 1   |                               |
| C373     | ECKD2H103PU  | C 0.01UF, P, 500V       | 1   |                               |
| C374     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                               |
| C376     | ECKD3D102KBN | C 1000PF, K, 2KV        | 1   |                               |
| C377     | ECQB1H104KF  | P 0.1UF, K, 50V         | 1   |                               |
| C380     | ECA1VM470    | E 47UF, 35V             | 1   |                               |
| C381     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                               |
| C391     | ECA2EM100    | E 10UF, 250V            | 1   |                               |
| C393     | ECKD2H103PU  | C 0.01UF, P, 500V       | 1   |                               |
| C396     | ECKD3D102KBN | C 1000PF, K, 2KV        | 1   |                               |
| C397     | ECQB1H104KF  | P 0.1UF, K, 50V         | 1   |                               |
| C451     | ECA1VM470    | E 47UF, 35V             | 1   |                               |
| C452,53  | ECA1VM471    | E 470UF, 35V            | 2   |                               |
| C455     | ECEA1CN220U  | E 22UF, 16V             | 1   |                               |
| C456     | ECQB1224KF   | P 0.22UF, 100V          | 1   |                               |
| C460     | ECA1HML100   | E 10UF, 50V             | 1   |                               |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                   |
|----------|--------------|-------------------------|-----|---------------------------|
| C461     | ECA1HML102   | E 1000UF, 50V           | 1   |                           |
| C462     | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |                           |
| C463     | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |                           |
| C464     | ECJ2XC1H471J | C 470UF, J, 50V         | 1   |                           |
| C475     | ECJ2XC1H151J | C 150PF, J, 50V         | 1   | ECUM1H151JCN              |
| C476     | ECHS1H102FZ  | P 1000PF, F, 50V        | 1   |                           |
| C482     | ECA1CML102   | E 1000UF, 16V           | 1   |                           |
| C490     | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |                           |
| C502     | ECA1VM101    | E 100UF, 35V            | 1   |                           |
| C503     | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |                           |
| C504     | ECKD2H102KB2 | C 1000PF, K, 500V       | 1   |                           |
| C505     | ECA1HML471   | E 470UF, 50V            | 1   |                           |
| C510     | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                           |
| C511     | ECCD3F181KGE | C 270PF, K, 2KV         | 1   |                           |
| C512     | ECWH20242JVY | P 2400PF, J, 2KV        | 1   |                           |
| C513     | ECQF4153JZ   | P 0.015UF, J, 400V      | 1   |                           |
| C514     | ECWH20272JVY | P 2700PF, J, 2KV        | 1   |                           |
| C515     | ECWF2474JSR  | P 0.47UF, J, 250V       | 1   |                           |
| C516     | ECWH20152JVY | P 1500PF, J, 2KV        | 1   |                           |
| C517,18  | ECKD3D152JBP | C 1500PF, J, 2KV        | 2   |                           |
| C519     | ECQB1H393JF  | P 0.039UF, J, 50V       | 1   |                           |
| C520     | ECA2EM470    | E 47UF, 250V            | 1   |                           |
| C521     | ECKD2H102KB2 | C 1000PF, K, 500V       | 1   |                           |
| C522     | ECA160V33U   | E 33UF, 160V            | 1   |                           |
| C523     | ECA1HML470   | E 47UF, 50V             | 1   |                           |
| C524     | ECKD2H392KB2 | C 3900PF, K, 500V       | 1   |                           |
| C525     | ECKD2H122KB2 | C 1200PF, K, 500V       | 1   |                           |
| C526     | ERDS2TC0     | C 0 OHM, 1/4W           | 1   |                           |
| C531     | ECKD2H101KB2 | C 100PF, K, 500V        | 1   |                           |
| C701     | ECKD3D271KBP | C 270PF, K, 2KV         | 1   |                           |
| C702     | ECQE2824KF   | P 0.82UF, J, 250V       | 1   |                           |
| C704,05  | ECQE1106KF   | P 10UF, K, 250V         | 2   |                           |
| C802-04  | ECKDAE472ZE  | C 4700PF, Z,            | 3   |                           |
| C805,06  | ECQU2A224MN  | P 0.22UF, M, 250V       | 2   | △                         |
| C807     | ECKCNA332MEB | C 3300PF, Z,            | 1   | △                         |
| C808     | ECA1VM221    | E 220UF, 35V            | 1   |                           |
| C809     | ECKCNA332MEB | C 3300PF, Z,            | 1   | △                         |
| C812     | ECOS2EP471BB | E 470UF, 250V           | 1   | ECOS2EP471BB<br>X VERSION |
| C813     | ECKD3D681KBP | C 680PF, K, 2KV         | 1   |                           |
| C814     | ECOS2EP471BB | E 470UF, 250V           | 1   | ECOS2EP471BB<br>X VERSION |
| C815     | ECKD3D681KBP | C 680PF, K, 2KV         | 1   |                           |
| C816,17  | ECKCNA471MBB | C 470PF, Z,             | 2   | ECKDNA471MB<br>△          |
| C819     | ECKD2H681KB2 | C 680PF, K, 500V        | 1   |                           |
| C820     | ECOS2EP471BB | E 470UF, 250V           | 1   | X VERSION                 |
| C820     | ECOS2GP221BB | E 220UF, 400V           | 1   | EX X VERSION              |
| C822     | ECOS2EP471BB | E 470UF, 250V           | 1   | X VERSION                 |
| C822     | ECOS2GP221BB | E 220UF, 400V           | 1   | EX X VERSION              |
| C823     | ECQF4333JZ   | P 0.033UF, J, 400V      | 1   |                           |
| C829     | ECQB1H681JF  | P 680PF, J, 50V         | 1   |                           |
| C832     | ECKD3D102KBP | C 1000PF, K, 2KV        | 1   |                           |
| C833     | EETHC2C681B  | E 680UF, 160V           | 1   |                           |
| C837     | EEUFCL1E272  | E 2700UF, 25V           | 1   |                           |
| C839     | ECKD3A151KBP | C 150PF, K, 1KV         | 1   |                           |
| C840     | EEUFCL1E821  | E 820UF, 25V            | 1   |                           |
| C841     | EEUFCL1E272  | E 2700UF, 25V           | 1   |                           |
| C842     | ECKD3A331KBP | C 330PF, K, 1KV         | 1   |                           |
| C859     | ECA1HML222   | E 2200UF, 50V           | 1   |                           |
| C860     | ECKD2H471KB2 | C 470PF, K, 500V        | 1   |                           |
| C861     | ECA1HML102   | E 1000UF, 50V           | 1   |                           |
| C862     | ECA1EM222    | E 2200UF, 25V           | 1   |                           |
| C863,64  | ECKD3A472KBP | C 4700PF, K, 1KV        | 2   | X VERSION                 |
| C865,66  | ECA2WHG4R7   | E 4.7UF, 450V           | 2   | X VERSION                 |
| C867     | ECQB1H473JF  | P 0.047UF, J, 50V       | 1   | X VERSION                 |
| C868     | ECQE2A473KF  | P 0.047UF, K, 250V      | 1   | X VERSION                 |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                  |
|----------|--------------|-------------------------|-----|--------------------------|
| C869     | ECA0JM331    | E 330UF, 6.3V           | 1   |                          |
| C870     | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |                          |
| C872     | ECA1EM471    | E 470UF, 25V            | 1   |                          |
| C873     | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |                          |
| C874     | ECKCNA222MEB | C 2200PF,               | 1   | △                        |
| C876     | ECJ2VF1H223Z | C 0.022UF, Z, 50V       | 1   |                          |
| C878     | ECQU2A224MN  | P 0.22UF, M, 250V       | 1   | X VERSION △              |
| C880     | ECA1EM472    | E 4700UF, 25V           | 1   |                          |
| C883     | ECA2WHG100   | E 10UF, 450V            | 1   |                          |
| C884     | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |                          |
| C885     | ECKF1H101KB  | C 100PF, K, 50V         | 1   |                          |
| C886     | ECCD3D270KGE | C 27PF, K, 2KV          | 1   |                          |
| C888     | ECKD3A392KBN | C 3900PF, K, 1KV        | 1   |                          |
| C889     | ECA1CM222    | E 2200UF, 16V           | 1   |                          |
| C890     | ECKD2H102KB2 | C 1000PF, K, 500V       | 1   |                          |
| C891     | ECA1CM471    | E 470UF, 16V            | 1   |                          |
| C893     | ECKD3D681KBP | C 680PF, K, 2KV         | 1   |                          |
| C894     | ECA1VMH470   | E 47UF, 35V             | 1   |                          |
| C895     | ECA1HMH100   | E 10UF, 50V             | 1   |                          |
| C901     | ECEALCN100U  | E 10UF, 16V             | 1   |                          |
| C902     | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C906     | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C907     | ECCF1H121JC  | C 120PF, J, 50V         | 1   | ECCF1H121JC4             |
| C910     | ECA1HM100    | E 10UF, 50V             | 1   |                          |
| C911     | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C920     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                          |
| C932     | ECA1HM101    | E 100UF, 50V            | 1   |                          |
| C952     | ECA1HM101    | E 100UF, 50V            | 1   |                          |
| C955     | ECQM2103KZ   | P 0.01UF, K, 200V       | 1   |                          |
| C958     | ECA2CM100    | E 10UF, 160V            | 1   |                          |
| C961     | ECA2CM100    | E 10UF, 160V            | 1   |                          |
| C962     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                          |
| C964     | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C966     | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C967     | ECA1CM221    | E 220UF, 16V            | 1   |                          |
| C972     | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |                          |
| C973     | ECQM2103KZ   | P 0.01UF, K, 200V       | 1   |                          |
| C974     | ECA1HM100    | E 10UF, 50V             | 1   |                          |
| C1014    | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C1040    | ECQB1H223JF  | P 0.022UF, J, 50V       | 1   |                          |
| C1041    | ECA1HM470    | E 47UF, 50V             | 1   |                          |
| C1043    | ECKF1H101KB  | C 100PF, K, 50V         | 1   |                          |
| C1054    | ECCF1H101J   | C 100PF, J, 50V         | 1   |                          |
| C1101    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |
| C1102    | EEVHB0J101P  | E 100UF, 6.3V           | 1   | EEVHB0J101P              |
| C1103-09 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 7   |                          |
| C1112    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |
| C1115    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |                          |
| C1116,17 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |                          |
| C1118    | ECJ2XB1H472K | C 4700PF, K, 50V        | 1   |                          |
| C1119-29 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 11  |                          |
| C1130    | EEVHB0G221   | E 220UF, 4V             | 1   |                          |
| C1131,32 | ECJ2XC1H220J | C 22UF, J, 50V          | 2   | ECUM1H220JCN             |
| C1133-36 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 4   |                          |
| C1137    | EEVHB0G221   | E 220UF, 4V             | 1   |                          |
| C1140    | ECJ2XB1H104K | C 0.1UF, K, 25V         | 1   | TX MODEL                 |
| C1142    | ECJ2XC1H151J | C 150PF, J, 50V         | 1   | ECUM1H151JCN<br>TX MODEL |
| C1144    | ECJ2XG1H101J | C 100PF, J, 50V         | 1   |                          |
| C1146    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |
| C1147    | ECA1CM101    | E 100UF, 16V            | 1   |                          |
| C1148    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |
| C1150,51 | ECJ2VB1C104K | C 0.1UF, K, 16V         | 2   |                          |
| C1152,53 | ECJ2XB1H103K | C 0.01UF, K, 50V        | 2   |                          |
| C1154    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |                          |
| C1156    | ECA1HM100    | E 10UF, 50V             | 1   |                          |
| C1157,58 | TCUYOJ335MBM | C 3.3UF, 6.3V           | 2   | F1K0J335A003             |
| C1159,60 | EEVHB1C100   | E 10UF, 16V             | 2   |                          |
| C1161    | EEVHB0G221   | E 220UF, 4V             | 1   |                          |
| C1162    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |
| C1163    | EEVHB0J101P  | E 100UF, 6.3V           | 1   | EEVHB0J101P              |
| C1164    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |                          |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| C1165    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1166    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C1167    | EEVHB1C101P  | E 100UF, 16V            | 1   |              |
| C1168    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C1170    | ECEALCN100   | E 10UF, 25V             | 1   |              |
| C1251    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C1252    | ECA1HM100    | E 10UF, 50V             | 1   |              |
| C1253,54 | ECJ2VB1C104K | C 0.1UF, K, 16V         | 2   |              |
| C1255    | ECA1VM470    | E 47UF, 35V             | 1   |              |
| C1290    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C1291    | ECA1CM471    | E 470UF, 16V            | 1   |              |
| C1292,93 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |              |
| C1294    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C1295    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C1296    | ECA1CM471    | E 470UF, 16V            | 1   |              |
| C1300    | ECJ1VC1H120J | C 12PF, J, 50V          | 1   |              |
| C1301    | ECJ1XC1H151J | C 150PF, J, 50V         | 1   |              |
| C1302    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1303    | ECJ1VC1H120J | C 12PF, J, 50V          | 1   |              |
| C1304,05 | ECJ1XC1H151J | C 150PF, J, 50V         | 2   |              |
| C1306    | ECJ1XC1H680J | C 68PF, J, 50V          | 1   | ECUX1H680JCV |
| C1308    | ECJ1XC1H151J | C 150PF, J, 50V         | 1   |              |
| C1309    | ECJ1XC1H181J | C 180PF, J, 50V         | 1   |              |
| C1312    | ECJ1XC1H151J | C 150PF, J, 50V         | 1   |              |
| C1313    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1315    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1316-18 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |              |
| C1319    | ECJ1XC1H470J | C 47PF, J, 50V          | 1   |              |
| C1320    | ECJ1XC1H060D | C 6PF, C, 50V           | 1   | ECUX1H060DCV |
| C1322-34 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 13  |              |
| C1335    | ECJ1VB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C1336    | TCUYOJ335MBM | C 3.3UF, 6.3V           | 1   | F1K0J335A003 |
| C1337-41 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 5   |              |
| C1342    | ECJ1XF1H103Z | C 0.01UF, Z, 50V        | 1   |              |
| C1344-54 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 11  |              |
| C1355,56 | TCUYOJ335MBM | C 3.3UF, 6.3V           | 2   | F1K0J335A003 |
| C1357    | ECJ1XC1H330J | C 33PF, J, 50V          | 1   |              |
| C1358,59 | ECJ1VB1H472K | C 4700PF, K, 50V        | 2   |              |
| C1360    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1361    | ECJ1VB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C1362    | EEVHB0J101P  | E 100UF, 6.3V           | 1   | EEVHB0J101P  |
| C1363    | ECJ1XC1H102J | C 1000PF, J, 50V        | 1   | ECUX1H102JCV |
| C1364    | ECJ1XC1H680J | C 68PF, J, 50V          | 1   | ECUX1H680JCV |
| C1365    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1367    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1370    | ECJ1VB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C1371    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1372    | ECJ1XF1H103Z | C 0.01UF, Z, 50V        | 1   |              |
| C1373    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1374    | ECJ1VB1H222K | C 2200PF, K, 50V        | 1   |              |
| C1376    | ECJ1XC1H680J | C 68PF, J, 50V          | 1   | ECUX1H680JCV |
| C1377    | ECJ1VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C1378    | ECJ1VB1H222K | C 2200PF, K, 50V        | 1   |              |
| C1379    | ECJ1VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C1380    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1381    | ECJ1XC1H330J | C 33PF, J, 50V          | 1   |              |
| C1382    | ECJ1XB1C393K | C 0.039UF, K, 16V       | 1   |              |
| C1383    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1384    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1385    | ECJ1XF1H103Z | C 0.01UF, Z, 50V        | 1   |              |
| C1386,87 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 2   |              |
| C1389    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1390,91 | TACCN0J105KT | C 1UF, 6.3V             | 2   |              |
| C1392    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1395    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1396    | EEVHB0G221   | E 220UF, 4V             | 1   |              |
| C1398,99 | ECJ1VC1H120J | C 12PF, J, 50V          | 2   |              |
| C1400    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1401    | ECJ1XC1H101J | C 100PF, J, 50V         | 1   |              |
| C1404    | ECJ1XC1H151J | C 150PF, J, 50V         | 1   |              |
| C1405    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C1411-13 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| C1414    | ECJ1XC1H470J | C 47PF, J, 50V          | 1   |              |
| C1415    | ECJ1XC1H060D | C 6PF, C, 50V           | 1   | ECUX1H060DCV |
| C1417-41 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 25  |              |
| C1442    | ECJ1VB1H472K | C 4700PF, K, 50V        | 1   |              |
| C1443    | TCUY0J335MBM | C 3.3UF, 6.3V           | 1   | FlK0J335A003 |
| C1444-47 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 4   |              |
| C1448    | TCUY0J335MBM | C 3.3UF, 6.3V           | 1   | FlK0J335A003 |
| C1449    | ECJ1XF1H103Z | C 0.01UF, Z, 50V        | 1   |              |
| C1450-52 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |              |
| C1454    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1455-58 | ECJ2VB1C104K | C 0.1UF, K, 16V         | 4   |              |
| C1460    | TCUY0J335MBM | C 3.3UF, 6.3V           | 1   | FlK0J335A003 |
| C1461    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1462    | ECJ1VB1H332K | C 3300PF, K, 50V        | 1   |              |
| C1464    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C1465    | TCUY0J335MBM | C 3.3UF, 6.3V           | 1   | FlK0J335A003 |
| C1466    | ECJ1XC1H680J | C 68PF, J, 50V          | 1   | ECUX1H680JCV |
| C1467    | ECJ1XC1H330J | C 33PF, J, 50V          | 1   |              |
| C1468-70 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |              |
| C1471    | ECJ1XC1H330J | C 33PF, J, 50V          | 1   |              |
| C1472    | ECJ1XC1H680J | C 68PF, J, 50V          | 1   | ECUX1H680JCV |
| C1473-75 | ECJ2VB1C104K | C 0.1UF, K, 16V         | 3   |              |
| C1476    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C1477    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C1478    | TCUY0J335MBM | C 3.3UF, 6.3V           | 1   | FlK0J335A003 |
| C1479,80 | EEVHP1C100   | E 10UF, 16V             | 2   |              |
| C1481,82 | TACCN0J105KT | C 1UF, 6.3V             | 2   |              |
| C1483    | EEVHP1E4R7   | E 4.7UF, 25V            | 1   |              |
| C1484,85 | EEVHP1C100   | E 10UF, 16V             | 2   |              |
| C1489    | TACCN0J105KT | C 1UF, 6.3V             | 1   |              |
| C1493    | EEVHB0J101   | E 100UF, 6.3V           | 1   | EEVHB0J101P  |
| C1494,95 | EEVHB0G221   | E 220UF, 4V             | 2   |              |
| C1496    | EEVHB0J101   | E 100UF, 6.3V           | 1   | EEVHB0J101P  |
| C1498    | EEVHB0G221   | E 220UF, 4V             | 1   |              |
| C1499,00 | EEVHB0J101   | E 100UF, 6.3V           | 2   | EEVHB0J101P  |
| C1501    | EEVHB1C470   | E 47UF, 16V             | 1   |              |
| C1502,03 | EEVHB0J101   | E 100UF, 6.3V           | 2   | EEVHB0J101P  |
| C1505-07 | EEVHB0G221   | E 220UF, 4V             | 3   |              |
| C1508    | EEUFCL1A101  | E 100UF, 10V            | 1   |              |
| C1510,11 | ECJ2VB1C104K | C 0.1UF, K, 16V         | 2   |              |
| C1513-15 | ECJ2XB1H103K | C 0.01UF, K, 50V        | 3   |              |
| C1516    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C1544    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C1550,51 | ECA1CM101    | E 100UF, 16V            | 2   |              |
| C1564,65 | ECA1HM4R7    | E 4.7UF, 50V            | 2   |              |
| C1566    | ECA1HM220    | E 22UF, 50V             | 1   |              |
| C1568,69 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 2   |              |
| C2007    | ECJ2XC1H560J | C 56PF, J, 50V          | 1   | ECUM1H560JCN |
| C2008,09 | ECJ2XC1H470J | C 47PF, J, 50V          | 2   | ECUM1H470JCN |
| C2010    | ECJ2XC1H560J | C 56PF, J, 50V          | 1   | ECUM1H560JCN |
| C2011    | ECJ2XC1H070D | C 7PF, D, 50V           | 1   | ECUM1H070DCN |
| C2014    | ECJ2XC1H010C | C 1PF, C, 50V           | 1   | ECUM1H010CCN |
| C2015    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C2016    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C2017    | ECJ2XC1H010C | C 1PF, C, 50V           | 1   | ECUM1H010CCN |
| C2024    | ECJ3VB1C474K | C 0.47UF, K, 16V        | 1   |              |
| C2025    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C2027    | ECA1HM100    | E 10UF, 50V             | 1   |              |
| C2028    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C2029    | ECJ2XB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C2030    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C2031    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C2032    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C2033    | ECA1HM100    | E 10UF, 50V             | 1   |              |
| C2034,35 | ECJ2XB1H103K | C 0.01UF, K, 50V        | 2   |              |
| C2037    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C2038    | ECA1HM100    | E 10UF, 50V             | 1   |              |
| C2039    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C2040    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C2041    | ECA1HM3R3    | E 3.3UF, 50V            | 1   |              |
| C2042-45 | ECJ2XB1H102K | C 1000PF, K, 50V        | 4   |              |
| C2224,25 | ECEALHKA100  | E 10UF, 50V             | 2   |              |
| C2290    | ECEALHN4R7U  | E 4.7UF, 50V            | 1   |              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks       |
|----------|--------------|-------------------------|-----|---------------|
| C2291    | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |               |
| C2292    | ECA0JM222    | E 2200UF, 6.3V          | 1   |               |
| C2293    | ECA1VM470    | E 47UF, 35V             | 1   |               |
| C2294,95 | ECA1HM221    | E 220UF, 50V            | 2   |               |
| C2296    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C2297    | ECKF1H472KB  | C 4700PF, K, 50V        | 1   |               |
| C2304    | ECA1HHG100   | E 10UF, 50V             | 1   |               |
| C2305-07 | ECA1VM101    | E 100UF, 35V            | 3   |               |
| C2308    | ECA1HM100    | E 10UF, 50V             | 1   |               |
| C2309,10 | ECA1VM102    | E 1000UF, 35V           | 2   |               |
| C2312    | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |               |
| C2313,14 | ECQB1H272JF  | P 2700PF, J, 50V        | 2   |               |
| C2315    | ECA1HM102    | E 1000UF, 50V           | 1   |               |
| C2316    | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |               |
| C2317    | ECA1HM4R7    | E 4.7UF, 50V            | 1   |               |
| C2318    | ECA1HHG220   | E 22UF, 50V             | 1   |               |
| C2319    | ECJ2XB1H102K | C 1000PF, K, 50V        | 1   |               |
| C2320    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C2321    | ECA1CM471    | E 470UF, 16V            | 1   |               |
| C2324    | ECJ2XB1H152K | C 1500PF, K, 50V        | 1   |               |
| C2325    | ECA1HM4R7    | E 4.7UF, 50V            | 1   |               |
| C2326    | ECJ2XB1H332K | C 3300PF, K, 50V        | 1   | ECUM1H332KBN  |
| C2327    | ECJ2XB1H102K | C 1000PF, K, 50V        | 1   |               |
| C2328    | ECJ2XC1H102J | C 1000UF, J, 50V        | 1   | ECUM1H102JCN  |
| C2329    | ECJ2XC1H102J | C 1000UF, J, 50V        | 1   | 51 INCH MODEL |
| C2330    | ECJ2XC1H102J | C 1000UF, J, 50V        | 1   | ECUM1H102JCN  |
| C2331    | ECJ2XC1H102J | C 1000UF, J, 50V        | 1   | 51 INCH MODEL |
| C2332    | ECJ2XB1H104K | C 0.1UF, K, 50V         | 1   |               |
| C2333    | ECA50YT2R2K  | E 2.2UF, 50V            | 1   | 51 INCH MODEL |
| C2334    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C2335    | ECA50YT2R2K  | E 2.2UF, 50V            | 1   | 51 INCH MODEL |
| C2336    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C2337    | ECA1CM470    | E 47UF, 16V             | 1   |               |
| C2338,39 | ECA1HM221    | E 220UF, 50V            | 2   |               |
| C2340    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C2341    | ECA1HM220    | E 22UF, 50V             | 1   |               |
| C2342    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C2343    | ECA1HM100    | E 10UF, 50V             | 1   |               |
| C2344,45 | ECJ2XB1H472K | C 4700PF, K, 50V        | 2   |               |
| C2349    | ECQV1H105JM  | P 1UF, J, 50V           | 1   |               |
| C2351    | ECA1CM471    | E 470UF, 16V            | 1   |               |
| C2352    | ECEALHN2R2U  | E 2.2UF, 50V            | 1   |               |
| C2354    | ECEALHN4R7U  | E 4.7UF, 50V            | 1   |               |
| C2355    | ECQV1H105JM  | P 1UF, J, 50V           | 1   |               |
| C2356    | ECQV1H104JM  | P 0.1UF, J, 50V         | 1   |               |
| C2359    | ECA1HM100    | E 10UF, 50V             | 1   |               |
| C2372,73 | ECEALHNR33U  | E 0.33UF, 50V           | 2   |               |
| C2378    | ECA0JM222    | E 2200UF, 6.3V          | 1   |               |
| C2379    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C2381    | ECA1HM010    | E 1UF, 50V              | 1   |               |
| C2382    | ECKF1H472KB  | C 4700PF, K, 50V        | 1   |               |
| C2385    | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |               |
| C2590    | ECA1CM471    | E 470UF, 16V            | 1   |               |
| C2702    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C2703    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |               |
| C2704    | ECA1EM471    | E 470UF, 25V            | 1   |               |
| C2707    | ECA1CHG471   | E 470UF, 16V            | 1   |               |
| C2708    | EEUFCL1A471  | E 470UF, 10V            | 1   |               |
| C2711    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |               |
| C2713    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C2716    | EEUFCL1A471  | E 470UF, 10V            | 1   |               |
| C2719,20 | ECA1CM471    | E 470UF, 16V            | 2   |               |
| C2722,23 | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 2   |               |
| C2726    | ECA1EHG471   | E 470UF, 25V            | 1   |               |
| C2730,31 | EEUFCL1E471  | E 470UF, 25V            | 2   |               |
| C2732    | EEUFCL1A471  | E 470UF, 10V            | 1   |               |
| C2733    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C2734    | ECA1EM471    | E 470UF, 25V            | 1   |               |
| C2737    | ECA1CM471    | E 470UF, 16V            | 1   |               |
| C2738    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C2739    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |               |
| C2740    | ECA1CM471    | E 470UF, 16V            | 1   |               |
| C2750,51 | TACCN0J105KT | C 1UF, 6.3V             | 2   |               |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| C2761    | ECJ2XC1H101J | C 100UF, J, 50V         | 1   |              |
| C3006    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C3013-17 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 5   |              |
| C3018    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C3020    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C3021    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C3022,23 | ECJ2XB1H103K | C 0.01UF, K, 50V        | 2   |              |
| C3024    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C3025    | ECJ2XB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C3026-29 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 4   |              |
| C3030    | ECJ2XB1H103K | C 0.01UF, K, 50V        | 1   |              |
| C3032,33 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 2   |              |
| C3034    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C3035    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C3036    | ECA1CM470    | E 47UF, 16V             | 1   |              |
| C3037,38 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |              |
| C3042-45 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 4   |              |
| C3046    | ECA1CM101    | E 100UF, 16V            | 1   |              |
| C3047-49 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |              |
| C3050    | ECA1CM221    | E 220UF, 16V            | 1   |              |
| C3051    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C3053,54 | ECA1HM010    | E 1UF, 50V              | 2   |              |
| C3057,58 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 2   |              |
| C3061-64 | ECA1HM100    | E 10UF, 50V             | 4   |              |
| C3067    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C3068    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |              |
| C3069    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C3070    | ECJ2VB1C104K | C 0.1UF, K, 16V         | 1   |              |
| C3077,78 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |              |
| C3079    | ECEA1CN470U  | E 47UF, 16V             | 1   |              |
| C3080    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |              |
| C3101-04 | ECQB1H563JF  | P 0.056UF, J, 50V       | 4   |              |
| C3107    | ECKF1H561KB  | C 560PF, K, 50V         | 1   |              |
| C3109    | ECKF1H561KB  | C 560PF, K, 50V         | 1   |              |
| C3112    | ECJ2XC1H680J | C 68PF, J, 50V          | 1   | ECUM1H680JCN |
| C3113,14 | ECA1CM470    | E 47UF, 16V             | 2   |              |
| C3115    | ECEA1CN470U  | E 47UF, 16V             | 1   |              |
| C3301-03 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 3   |              |
| C3323    | ECA1HHG100   | E 10UF, 50V             | 1   |              |
| C3352    | ECA2AM220    | E 22UF, 160V            | 1   |              |
| C3353    | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |              |
| C3362    | ECA2AM220    | E 22UF, 160V            | 1   |              |
| C3363    | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |              |
| C3372    | ECA2AM220    | E 22UF, 160V            | 1   |              |
| C3373    | ECKF1H103ZF  | C 0.01UF, Z, 50V        | 1   |              |
| C3410    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3412    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3414,15 | ECJ2XC1H561J | C 560PF, J, 50V         | 2   |              |
| C3417    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3420    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3422    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3424    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3426    | ECJ2XC1H561J | C 560PF, J, 50V         | 1   |              |
| C3430    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |              |
| C3450,51 | ECEA1AKA221  | E 220UF, 10V            | 2   |              |
| C3452,53 | ECEA1CKA101  | E 100UF, 16V            | 2   |              |
| C6715    | ECKD3D681KBP | C 680PF, K, 2KV         | 1   |              |
| C6718    | ECCD3D220KGE | C 22PF, K, 2KV          | 1   |              |
| C6731,32 | ECKD3D681KBP | C 680PF, K, 2KV         | 2   |              |
| C7001    | ECA1HHG2R2   | E 2.2UF, 50V            | 1   |              |
| C7002,03 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 2   |              |
| C7004,05 | ECA1VHG101   | E 100UF, 35V            | 2   |              |
| C7006    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |              |
| C7007    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN |
| C7008    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |              |
| C7009    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN |
| C7010    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |              |
| C7011    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN |
| C7012    | ECA1HHG2R2   | E 2.2UF, 50V            | 1   |              |
| C7013,14 | ECA1VHG101   | E 100UF, 35V            | 2   |              |
| C7015,16 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 2   |              |
| C7017    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks       |
|----------|--------------|-------------------------|-----|---------------|
| C7018    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN  |
| C7019    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |               |
| C7020    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN  |
| C7021    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |               |
| C7022    | ECJ2XC1H220J | C 22UF, J, 50V          | 1   | ECUM1H220JCN  |
| C7090-95 | ECJ2XB1H102K | C 1000PF, K, 50V        | 6   |               |
| C7101    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7102    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7103    | ECA1CM222    | E 2200UF, 16V           | 1   |               |
| C7104    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7105-07 | ECJ2XC1H101J | C 100UF, J, 50V         | 3   |               |
| C7108    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C7109-11 | ECEA1CKA470  | E 47UF, 16V             | 3   |               |
| C7112,13 | ECJ2XC1H561J | C 560PF, J, 50V         | 2   |               |
| C7114    | ECJ2VC1H821J | C 820PF, J, 50V         | 1   |               |
| C7115-19 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 5   |               |
| C7120    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7121-25 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 5   |               |
| C7126-28 | ECEA1CKA470  | E 47UF, 16V             | 3   |               |
| C7129,30 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 2   |               |
| C7131-34 | ECJ2XC1H561J | C 560PF, J, 50V         | 4   |               |
| C7135    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7136    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C7137-40 | ECJ2XC1H101J | C 100UF, J, 50V         | 4   |               |
| C7141    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7142    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7143-48 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 6   |               |
| C7149    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7150    | ECA1VM470    | E 47UF, 35V             | 1   |               |
| C7151-53 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 3   |               |
| C7154    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C7155-57 | ECEA1CKA470  | E 47UF, 16V             | 3   |               |
| C7158-61 | ECJ2XC1H681J | C 680PF, J, 50V         | 4   |               |
| C7162    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7163,64 | ECJ2XC1H681J | C 680PF, J, 50V         | 2   |               |
| C7165    | ECA1VM470    | E 47UF, 35V             | 1   |               |
| C7166    | ECJ2XC1H681J | C 680PF, J, 50V         | 1   |               |
| C7167    | ECEA1CKA470  | E 47UF, 16V             | 1   |               |
| C7168    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7169,70 | ECEA1CKA470  | E 47UF, 16V             | 2   |               |
| C7171,72 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 2   |               |
| C7173    | ECJ2VB1H273K | C 0.027UF, K, 50V       | 1   |               |
| C7174-76 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 3   |               |
| C7188-90 | ECJ2XC1H560J | C 56PF, J, 50V          | 3   | ECUM1H560JCN  |
| C7191    | TCUY1C105ZFN | C 1UF, 16V              | 1   | F1J1C1050006  |
| C7193,94 | ECA1CM101    | E 100UF, 16V            | 2   |               |
| C7195    | ECJ2XC1H101J | C 100UF, J, 50V         | 1   |               |
| C7196    | ECJ2XB1H222K | C 2200PF, K, 50V        | 1   |               |
| C7197    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7709-11 | ECJ2XC1H271J | C 270PF, J, 50V         | 3   |               |
| C7712    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |               |
| C7713    | ECA1EM471    | E 470UF, 25V            | 1   |               |
| C7714    | ECJ2VF1C105Z | C 1UF, Z, 16V           | 1   |               |
| C7715    | TCUY1C105ZFN | C 1UF, 16V              | 1   | F1J1C1050006  |
| C7716    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7717    | ECJ2VF1H104Z | C 0.1UF, Z, 50V         | 1   |               |
| C7718    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C7719-21 | ECJ2VF1C105Z | C 1UF, Z, 16V           | 3   |               |
| C7725    | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 1   |               |
| C7726    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C9301-03 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 3   |               |
| C9311    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C9312    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   | 43 INCH MODEL |
| C9320    | ECJ2XB1H152K | C 1500PF, K, 50V        | 1   |               |
| C9322-24 | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 3   |               |
| C9351    | ECA1CM101    | E 100UF, 16V            | 1   |               |
| C9352,53 | ECJ2VF1C104Z | C 0.1UF, Z, 16V         | 2   |               |
| C9601    | ECA1VMH470   | E 47UF, 35V             | 1   |               |
| C9602    | ECJ2XC1H101J | C 100UF, J, 50V         | 1   |               |
| C9603    | ECJ2VF1H103Z | C 0.01UF, Z, 50V        | 1   |               |
| C9604    | ECA1HM220    | E 22UF, 50V             | 1   |               |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                   |
|----------|--------------|-------------------------|-----|---------------------------|
| C9611    | ECWH16473JV  | P 0.047PF, J, 1.6KV     | 1   |                           |
| C9612    | ECA1CM101    | E 100UF, 16V            | 1   |                           |
| C9613    | ECEA1EN101U  | E 100UF, 25V            | 1   |                           |
| C9614    | ECJ2XCIH471J | C 470UF, J, 50V         | 1   |                           |
| C9615    | ECQB1H223JF  | P 0.022UF, J, 50V       | 1   |                           |
| D001     | MA4020       | ZENER DIODE             | 1   | MAZ4020                   |
| D1       | TJSF20016    | 16P CONNECTOR           | 1   | K1KB16A00050              |
| D002     | MA4020       | ZENER DIODE             | 1   | MAZ4020                   |
| D2       | TJSF20016    | 16P CONNECTOR           | 1   | K1KB16A00050              |
| D003     | MA3150H      | ZENER DIODE             | 1   | MAZ31500H                 |
| D3       | TJSF20016    | 16P CONNECTOR           | 1   | K1KB16A00050              |
| D4       | K1KA03A00172 | 3P CONNECTOR            | 1   |                           |
| D004     | MA3150H      | ZENER DIODE             | 1   | MAZ31500H                 |
| D5       | TJS3A9880    | 8P CONNECTOR            | 1   | K1KA08A00179              |
| D6       | TJSF20016    | 16P CONNECTOR           | 1   | K1KB16A00050              |
| D8       | TJS3A9670    | 6P CONNECTOR            | 1   | K1KA06A00179              |
| D010     | MA152K       | DIODE                   | 1   | MA3X152K                  |
| D12      | K1KA03A00172 | 3P CONNECTOR            | 1   |                           |
| D13-15   | TJS3A9650    | 4P CONNECTOR            | 3   | K1KA04A00194              |
| D40      | TJS5A9420    | 8P CONNECTOR            | 1   | K1KB08A00054              |
| D051,52  | MA4020       | ZENER DIODE             | 2   | MAZ4020                   |
| D053     | MA152K       | DIODE                   | 1   | MA3X152K                  |
| D60      | TJS5A9420    | 8P CONNECTOR            | 1   | K1KB08A00054              |
| D70      | TJS5A9420    | 8P CONNECTOR            | 1   | K1KB08A00054              |
| D353,54  | MA165        | DIODE                   | 2   | MA2C165                   |
| D357     | MA165        | DIODE                   | 1   | MA2C165                   |
| D360-63  | MA188        | DIODE                   | 4   | MA2C188                   |
| D366     | AM01Z        | DIODE                   | 1   | B0EAKC000002              |
| D367-70  | MA188        | DIODE                   | 4   | MA2C188                   |
| D373,74  | MA165        | DIODE                   | 2   | MA2C165                   |
| D377     | MA165        | DIODE                   | 1   | MA2C165                   |
| D387-90  | MA188        | DIODE                   | 4   | MA2C188                   |
| D393,94  | MA165        | DIODE                   | 2   | MA2C165                   |
| D397     | MA165        | DIODE                   | 1   | MA2C165                   |
| D452     | MA152K       | DIODE                   | 1   | MA3X152K                  |
| D453     | EU02A        | DIODE                   | 1   | B0HAMR000047              |
| D454,55  | MA152K       | DIODE                   | 2   | MA3X152K                  |
| D456     | ERA22-02     | DIODE                   | 1   | B0HAGM000001              |
| D457-60  | AM01Z        | DIODE                   | 4   | B0EAKC000002              |
| D461     | MA3030H      | ZENER DIODE             | 1   |                           |
| D462     | MA721        | DIODE                   | 1   | MA3X721                   |
| D463     | ERZV07D470CS |                         | 1   |                           |
| D464     | MA188        |                         | 1   |                           |
| D465     | MA3039H      | ZENER DIODE             | 1   | MAZ30390H                 |
| D500,01  | D1NL40V70    | DIODE                   | 2   | B0HALP000002              |
| D502     | MA4150M      | ZENER DIODE             | 1   | MAZ41500M                 |
| D503     | FMV-3GU      | DIODE                   | 1   |                           |
| D504     | MA4270M      | ZENER DIODE             | 1   | MAZ42700M                 |
| D505     | MA4030M      | ZENER DIODE             | 1   | MAZ40300M                 |
| D510,11  | D1NL40V70    | DIODE                   | 2   | B0HALP000002              |
| D512-14  | MA182        | DIODE                   | 3   | MA2B182                   |
| D519     | AU02Z        | DIODE                   | 1   | B0HAKM000004              |
| D530     | MA165        | DIODE                   | 1   | MA2C165                   |
| D701     | D1NL40V70    | DIODE                   | 1   | B0HALP000002              |
| D702     | MA4120M      | ZENER DIODE             | 1   | MAZ41200M                 |
| D801     | D4SB80Z      | DIODE                   | 1   | B0EBNT000004<br>△         |
| D805     | MA2240B      | ZENER DIODE             | 1   | MAZ22400B                 |
| D807     | TLP721FD4GR  |                         | 1   | B3PAA0000153<br>△         |
| D809     | MA2082-A     | ZENER DIODE             | 1   | MAZ20820A                 |
| D811     | MA2082-A     | ZENER DIODE             | 1   | MAZ20820A                 |
| D813     | ERDS2TC0     | C 0 OHM, 1/4W           | 1   |                           |
| D815     | MA4220M      | ZENER DIODE             | 1   | MAZ42200M                 |
| D816     | MA165        | DIODE                   | 1   | MA2C165                   |
| D819-21  | ERA22-04     | DIODE                   | 3   | B0HAGP000001              |
| D822,23  | ERC13-08     | DIODE                   | 2   | B0EAKT000022<br>X VERSION |
| D828     | FML-12S      | DIODE                   | 1   | B0HERM000012              |
| D829     | ERC91-02     | DIODE                   | 1   | B0HAPM000003              |
| D831     | FMGG2CS      | DIODE                   | 1   | B0HAPV000011              |

| Ref. No.  | Part No.   | Part Name & Description | Pcs | Remarks       |
|-----------|------------|-------------------------|-----|---------------|
| D851      | FML22S     | DIODE                   | 1   | B0HFRJ000011  |
| D860      | FMGG26S    | DIODE                   | 1   |               |
| D869,70   | MA152K     | DIODE                   | 2   | MA3X152K      |
| D871      | ERA22-02   | DIODE                   | 1   | B0HAGM000001  |
| D875,76   | ERZV14D511 | VARISTOR                | 2   |               |
| D884      | 0N3171R    | PHOTO COUPLER           | 1   | △             |
| D885      | MA4056H    | ZENER DIODE             | 1   | MAZ40560H     |
| D886      | MA165      | DIODE                   | 1   | MA2C165       |
| D890      | EU02       | DIODE                   | 1   |               |
| D893      | ERC13-08   | DIODE                   | 1   | B0EAKT000022  |
| D894      | MA152K     | DIODE                   | 1   | MA3X152K      |
| D953      | TVSSR2KN   | DIODE                   | 1   | B0ZAZ0000041  |
| D962      | MA188      | DIODE                   | 1   | MA2C188       |
| D1011     | LNG201RFC  | DIODE                   | 1   |               |
| D1012,13  | MA4056M    | ZENER DIODE             | 2   | MAZ40560M     |
| D1152,53  | MA152K     | DIODE                   | 2   | MA3X152K      |
| D1301     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D1305     | MA704A     | DIODE                   | 1   | MA3X704A      |
| D1306     | MA3062M    | ZENER DIODE             | 1   | MAZ30620M     |
| D1307     | MA3091M    | ZENER DIODE             | 1   | MAZ30910M     |
| D1308,09  | MA152K     | DIODE                   | 2   | MA3X152K      |
| D1310-12  | MA3062M    | ZENER DIODE             | 3   | MAZ30620M     |
| D1313     | MA3043M    | ZENER DIODE             | 1   | MAZ30430M     |
| D1315     | MA3043M    | ZENER DIODE             | 1   | MAZ30430M     |
| D1354     | MA152WK    | DIODE                   | 1   | MA3X152E      |
| D2040-42  | MA152K     | DIODE                   | 3   | MA3X152K      |
| D2302     | MTZJ5.6B   | ZENER DIODE             | 1   |               |
| D2304     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D2305     | MA3360M    | ZENER DIODE             | 1   | MAZ33600M     |
| D2308     | MA4360M    | ZENER DIODE             | 1   | MAZ43600M     |
| D2310     | MA3360M    | ZENER DIODE             | 1   | MAZ33600M     |
| D2312     | MA3130H    | ZENER DIODE             | 1   |               |
| D2313,14  | MA152K     | DIODE                   | 2   | MA3X152K      |
| D2316     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D2322     | RU3YX-M    | DIODE                   | 1   |               |
| D2361     | MTZJ5.6B   | ZENER DIODE             | 1   |               |
| D2711     | RK34       | DIODE                   | 1   |               |
| D2712     | AK04       | DIODE                   | 1   | B0JAMC000003  |
| D2713,14  | RK34       | DIODE                   | 2   |               |
| D3003,04  | MA3091L    | ZENER DIODE             | 2   |               |
| D3007     | MA157A     | DIODE                   | 1   | MA3X157A      |
| D3008     | MA3091     | ZENER DIODE             | 1   | MAZ3091       |
| D3010,11  | MA3091     | ZENER DIODE             | 2   | MAZ3091       |
| D3351,52  | MA165      | DIODE                   | 2   | MA2C165       |
| D3361,62  | MA165      | DIODE                   | 2   | MA2C165       |
| D3371,72  | MA165      | DIODE                   | 2   | MA2C165       |
| D3410     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D3411     | MA3020     | ZENER DIODE             | 1   |               |
| D6705     | EG01C      | DIODE                   | 1   | B0HAGV000001  |
| D6710     | MA2082-A   | ZENER DIODE             | 1   | MAZ20820A     |
| D6712     | ERC13-08   | DIODE                   | 1   | B0EAKT000022  |
| D6717,18  | ERC13-08   | DIODE                   | 2   | B0EAKT000022  |
| D7101     | MA157A     | DIODE                   | 1   | MA3X157A      |
| D7102,03  | MA152K     | DIODE                   | 2   | MA3X152K      |
| D7707     | MA152WK    | DIODE                   | 1   | MA3X152E      |
| D7708     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D7709     | MA152WK    | DIODE                   | 1   | MA3X152E      |
| D9350,51  | MA3051M    | ZENER DIODE             | 2   | MAZ30510M     |
| D9352     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D9353     | MA188      | DIODE                   | 1   | 43 INCH MODEL |
| D9354     | MA3030H    | ZENER DIODE             | 1   | 43 INCH MODEL |
| D9601     | MA3075H    | ZENER DIODE             | 1   | MAZ30750H     |
| D9602     | RF1H       | DIODE                   | 1   | B0HACW000001  |
| D9603,04  | MA3030H    | ZENER DIODE             | 2   |               |
| D9605     | MA29B      | DIODE                   | 1   |               |
| D9606     | MA152K     | DIODE                   | 1   | MA3X152K      |
| D9607     | MA4062L    | ZENER DIODE             | 1   | MAZ40620L     |
| F801      | XBA2C50TR0 | FUSE 250V 5A            | 1   | K5D502BK0003  |
| F801-1,-2 | EYF-52BC   | FUSE HOLDER             | 2   |               |
| H1,H2     | TJSF17425  | 25P CONNECTOR           | 2   | K1KA25B00004  |

| Ref. No.  | Part No.     | Part Name & Description   | Pcs | Remarks       |
|-----------|--------------|---------------------------|-----|---------------|
| IC051,52  | AN7805F      | LINEAR IC                 | 2   |               |
| IC451     | LA7845N      | LINEAR IC                 | 1   | C1AA00000529  |
| IC459     | TC74HC221AF  | MOS IC (CMOS S/LOGIC)     | 1   | C0JBAM000065  |
| IC501     | NJM2903M     | INTEGRATED CIRCUIT        | 1   | C0BBBA000019  |
| IC801     | STRF6656LF53 | LINEAR IC                 | 1   | C5HABZZ00014  |
| IC802     | STR83145LF55 | LINEAR IC                 | 1   | X VERSION     |
| IC808     | SE139N       | LINEAR IC                 | 1   |               |
| IC810     | AN7812       | LINEAR IC                 | 1   |               |
| IC881     | MIP2810001TV | IC (ROGIC)                | 1   |               |
| IC1101    | SDA6000      | INTEGRATED CIRCUIT        | 1   |               |
| IC1102    | TVRJ646-4    | ROM IC                    | 1   | C3FBKD000104  |
| IC1104    | TVRJ651-1    | ROM IC (EEPROM 16KBIT)    | 1   | 43 INCH MODEL |
| IC1104    | TVRJ649-1    | ROM IC                    | 1   | 51 INCH MODEL |
| IC1105    | S-80843ALY-Z | LINEAR IC                 | 1   | C0EAH0000067  |
| IC1106    | TVSA0500     | IC                        | 1   | C3ABMG000074  |
| IC1107    | TC7MBD3245KL | IC                        | 1   | C0JBAZ001839  |
| IC1108    | AN78L05      | LINEAR IC                 | 1   |               |
| IC1109    | PST9119NR    | INTEGRATED CIRCUIT        | 1   |               |
| IC1110    | PST9128NR    | IC (LOGIC)                | 1   | C0EBE0000066  |
| IC1111    | TC7SH32FU    | IC                        | 1   |               |
| IC1251    | SI-3033C     | HYBRID IC                 | 1   | C0DAEGG00007  |
| IC1252    | PQ30RV21A    | LINEAR IC                 | 1   | C0DAEZH00008  |
| IC1253    | M62392FP     | IC                        | 1   | C0FBBD000083  |
| IC1254    | PST9128NR    | IC (LOGIC)                | 1   | C0EBE0000066  |
| IC1301    | CLAB00001494 | OR CLAB00001468           | 1   |               |
| IC1302    | TC74HC4066TL | IC                        | 1   |               |
| IC1303    | CLAB00001310 | MB87L1601 OR CLAB00001282 | 1   |               |
| IC1304    | CLAB00001494 | OR CLAB00001468           | 1   |               |
| IC1305    | SDA9415      | INTEGRATED CIRCUIT        | 1   |               |
| IC1306,07 | MM1065ZMR    | LINEAR IC                 | 2   | C0CBABB00029  |
| IC1310    | TC7WH241FU   | MOS IC (CMOS S/LOGIC)     | 1   | C0JBAZ001263  |
| IC1311    | MM1065ZMR    | LINEAR IC                 | 1   | C0CBABB00029  |
| IC1312    | NJM2904V     | INTEGRATED CIRCUIT        | 1   | C0ABBA000084  |
| IC1314    | NJM2904M     | LINEAR IC                 | 1   | C0ABBA000021  |
| IC1315    | AN5394FB     | IC                        | 1   |               |
| IC2001    | TVSA0431     | IC                        | 1   |               |
| IC2301    | TA8200AH     | LINEAR IC                 | 1   | C1AA00000348  |
| IC2302    | AN7108       | LINEAR IC                 | 1   |               |
| IC2304    | AN7108       | LINEAR IC                 | 1   |               |
| IC2705,06 | PQ1CG21H2RZ  | INTEGRATED CIRCUIT        | 2   | C0DACMG00001  |
| IC2707    | AN7808       | LINEAR IC                 | 1   |               |
| IC2708    | SI-8090K     | HYBRID IC                 | 1   |               |
| IC2709    | PQ1CG21H2RZ  | INTEGRATED CIRCUIT        | 1   | C0DACMG00001  |
| IC2710    | SI-3033C     | HYBRID IC                 | 1   | C0DAEGG00007  |
| IC3001    | CXA2069Q     | LINEAR IC                 | 1   | CLAB00000459  |
| IC3003    | CXA1211M     | LINEAR IC                 | 1   | CLAB00000013  |
| IC3004,05 | C0ZBZ0000451 | IC                        | 2   |               |
| IC7001,02 | STK392-110   | LINEAR IC                 | 2   | C5AA00000108  |
| IC7101    | AN78L05M     | LINEAR IC                 | 1   |               |
| IC7102    | TVRJ591      | ROM IC                    | 1   | 24LC64T-I/SN  |
| IC7103    | TC7WH04FU    | MOS IC (CMOS S/LOGIC)     | 1   |               |
| IC7104    | C0FBBH000040 | IC                        | 1   |               |
| IC7105,06 | TL084CNS     | IC                        | 2   | C0AAFB000011  |
| IC7107    | CLAB00001220 | IC                        | 1   |               |
| IC7108    | AN78L12M     | LINEAR IC                 | 1   |               |
| IC7109    | AN79L12M     | IC                        | 1   |               |
| IC7110    | BA7603F      | IC                        | 1   |               |
| IC7121    | CXA1875AM    | LINEAR IC                 | 1   | C0FBBD000017  |
| IC7702    | CXA1315M     | LINEAR IC                 | 1   | CLAB00000440  |
| IC7703    | AN6912S      | IC                        | 1   |               |
| IC9351    | AN78N09      | LINEAR IC                 | 1   |               |
| IC9601    | AN6562S      | LINEAR IC                 | 1   |               |

| Ref. No.   | Part No.    | Part Name & Description | Pcs | Remarks           |
|------------|-------------|-------------------------|-----|-------------------|
| J10        | ERD25TC0    | C 0 OHM, 1/4W           | 1   |                   |
| J1A1,A2    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 2   |                   |
| J1A4-A9    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 6   |                   |
| J1A12      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| J1A14-21   | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 8   |                   |
| J1A23-25   | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 3   |                   |
|            |             |                         |     |                   |
| JK351      | TJSC00700   | CRT SOCKET              | 1   | K3B10CA00006<br>△ |
| JK371      | TJSC00700   | CRT SOCKET              | 1   | K3B10CA00006<br>△ |
| JK391      | TJSC00700   | CRT SOCKET              | 1   | K3B10CA00006<br>△ |
| JK3102     | TJB4G636    | TERMINAL                | 1   |                   |
| JK3401     | TJB4G639    | TERMINAL                | 1   |                   |
|            |             |                         |     |                   |
| JS12       | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JS14-18    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 5   |                   |
| JS24       | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JS27       | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JS32,33    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 2   |                   |
| JS99       | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JS7102,03  | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 2   |                   |
| JS7106     | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JS7108     | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   | 43 INCH MODEL     |
|            |             |                         |     |                   |
| JSA5-A7    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 3   |                   |
| JSA22      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA30      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA33-36   | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 4   |                   |
| JSA42      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA65,66   | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 2   |                   |
| JSA68      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA70      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA73      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA78      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA84      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA90      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSA92-95   | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 4   |                   |
| JSA101     | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
|            |             |                         |     |                   |
| JSD14      | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
|            |             |                         |     |                   |
| JSDG16-18  | ERJ6GEY0R00 |                         | 3   |                   |
| JSDG18     | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSDG27     | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSDG55     | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 1   |                   |
| JSDG57-88  | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 32  |                   |
| JSDG100    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSDG103    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
| JSDG104-09 | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 6   |                   |
| JSDG111,12 | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 2   |                   |
| JSDG113    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 1   |                   |
|            |             |                         |     |                   |
| JSH1-H6    | ERJ6GEY0R00 | M 0 OHM,J,1/10W         | 6   |                   |
|            |             |                         |     |                   |
| JSU3       | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 1   |                   |
|            |             |                         |     |                   |
| L002,03    | ELESE2R2KA  | PEAKING COIL            | 2   |                   |
| L008,09    | EXCELDLR35C | BEAD CHOKE              | 2   |                   |
| L053       | EXCELDLR35C | BEAD CHOKE              | 1   |                   |
| L055,56    | ELESE2R2KA  | PEAKING COIL            | 2   |                   |
| L351       | ELEBD101KA  | PEAKING COIL            | 1   |                   |
| L352       | ELESE100JA  | PEAKING COIL            | 1   |                   |
| L353       | ELESE1R0JA  | PEAKING COIL            | 1   |                   |
| L354       | ELESE6R8JA  | PEAKING COIL            | 1   |                   |
| L371       | ELEBD101KA  | PEAKING COIL            | 1   |                   |
| L372       | ELESE100JA  | PEAKING COIL            | 1   |                   |
| L373       | ELESE4R7KA  | PEAKING COIL            | 1   |                   |
| L374       | ELESE6R8JA  | PEAKING COIL            | 1   |                   |
| L391       | ELEBD101KA  | PEAKING COIL            | 1   |                   |



| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| L392     | ELESE150JA   | PEAKING COIL            | 1   |              |
| L393     | ELESE6R8JA   | PEAKING COIL            | 1   |              |
| L394     | ELESE100JA   | PEAKING COIL            | 1   |              |
| L414     | ELESE470KA   | PEAKING COIL            | 1   |              |
| L452,53  | EXCELD35C    | BEAD CHOKE              | 2   |              |
| L503     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L505     | EXCELSA24    | BEAD CHOKE              | 1   |              |
| L506-08  | EXCELD35C    | BEAD CHOKE              | 3   |              |
| L531     | EXCELD35C    | BEAD CHOKE              | 1   |              |
| L555     | ELH5L718     | HORIZONTAL COIL         | 1   |              |
| L701     | TALFP15B222K | INDUCTION COIL          | 1   |              |
| L702     | ELC18B121F   | CHOKE COIL              | 1   |              |
| L703     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L704     | EXCELD35C    | BEAD CHOKE              | 1   |              |
| L815,16  | EXCELSA39    | BEAD CHOKE              | 2   |              |
| L818     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L820     | EXCELSA24    | BEAD CHOKE              | 1   |              |
| L822     | EXCELD35C    | BEAD CHOKE              | 1   |              |
| L827,28  | TALL08N220KA | INDUCTION COIL          | 2   | G0C220K00013 |
| L830     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L851     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L857     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L861     | TLUADTB470K  | INDUCTION COIL          | 1   | G0A470GA0017 |
| L862     | TALL08N101KA | INDUCTION COIL          | 1   | G0A101EA0008 |
| L870     | ELF24V030A   | LINE FILTER             | 1   | X VERSION △  |
| L870     | ELF24V018A   | LINE FILTER             | 1   | EX X VERSION |
| L872     | ELF24V032B   | LINE FILTER             | 1   | X VERSION △  |
| L872     | ELF24V019A   | LINE FILTER             | 1   | EX X VERSION |
| L873     | ELF24V030A   | LINE FILTER             | 1   | X VERSION △  |
| L873     | ELF24V018A   | LINE FILTER             | 1   | EX X VERSION |
| L874     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L880     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L883     | TALL08N181KA | INDUCTION COIL          | 1   | G0A181EA0008 |
| L904     | TLUABTA560K  | PEAKING COIL            | 1   | G0C560K00004 |
| L951     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L953,54  | EXCELSA35    | BEAD CHOKE              | 2   |              |
| L956     | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L1052    | EXCELSA35    | BEAD CHOKE              | 1   |              |
| L1101    | ERDS2TC0     | C 0 OHM, 1/4W           | 1   |              |
| L1103,04 | TALC325T4R7M | CHIP INDUCTOR COIL      | 2   |              |
| L1106    | ELESE4R7JA   | PEAKING COIL            | 1   |              |
| L1107-10 | TALC325T4R7M | CHIP INDUCTOR COIL      | 4   |              |
| L1115    | TALC325T3R3M | CHIP INDUCTOR COIL      | 1   |              |
| L1116    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |
| L1300    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |
| L1301,02 | TALC168T3R3K | CHIP INDUCTOR COIL      | 2   |              |
| L1303    | TALC168T2R2K | CHIP INDUCTOR COIL      | 1   |              |
| L1304    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |
| L1305    | TALC168T3R3K | CHIP INDUCTOR COIL      | 1   |              |
| L1306    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |
| L1307    | ERDS2TC0     | C 0 OHM, 1/4W           | 1   |              |
| L1308,09 | ELJPA100KB   | PEAKING COIL            | 2   | G1C100KA0002 |
| L1310,11 | TALC325T4R7M | CHIP INDUCTOR COIL      | 2   |              |
| L1313-15 | TALC325T4R7M | CHIP INDUCTOR COIL      | 3   |              |
| L1317    | TALC168T6R8K | CHIP INDUCTOR COIL      | 1   |              |
| L1318,19 | TALC325T4R7M | CHIP INDUCTOR COIL      | 2   |              |
| L1321    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |
| L1323,24 | TALC325T4R7M | CHIP INDUCTOR COIL      | 2   |              |
| L1328    | TALC325T4R7M | CHIP INDUCTOR COIL      | 1   |              |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks               |
|-----------|--------------|-------------------------|-----|-----------------------|
| L2001,02  | EXCELD35C    | BEAD CHOKE              | 2   |                       |
| L2004     | ELESE6R8KA   | PEAKING COIL            | 1   |                       |
| L2005     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2007,08  | EXCELD35C    | BEAD CHOKE              | 2   |                       |
| L2009,10  | TALC325T4R7M | CHIP INDUCTOR COIL      | 2   |                       |
| L2278     | EXCELSA35    | BEAD CHOKE              | 1   |                       |
| L2302     | TL5159054E   | NETWORK COIL            | 1   | G0A5R0H00003          |
| L2303     | EXCELSA35    | BEAD CHOKE              | 1   |                       |
| L2304     | EXCELSA35    | BEAD CHOKE              | 1   | 51 INCH MODEL         |
| L2305     | EXCELSA35    | BEAD CHOKE              | 1   | 51 INCH MODEL         |
| L2306     | TL5159054E   | NETWORK COIL            | 1   | G0A5R0H00003          |
| L2307     | EXCELSA35    | BEAD CHOKE              | 1   |                       |
| L2308     | EXCELSA35    | BEAD CHOKE              | 1   | 51 INCH MODEL         |
| L2309     | EXCELSA35    | BEAD CHOKE              | 1   | 51 INCH MODEL         |
| L2310     | EXCELSA35    | BEAD CHOKE              | 1   |                       |
| L2323     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2523-26  | ELESE6R8KA   | PEAKING COIL            | 4   |                       |
| L2527     | EXCELSA35    | BEAD CHOKE              | 1   |                       |
| L2703     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2704     | TALL08N330KA | INDUCTION COIL          | 1   | G0A330GA0011          |
| L2705     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2706     | TAL10RP151LB | INDUCTION COIL          | 1   | G0ZZ00001908          |
| L2707     | TALL08N470KA | INDUCTION COIL          | 1   | G0A470GA0011          |
| L2708     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2709     | TLFP095      | CHOKE COIL              | 1   | G0A221GA0001          |
| L2710     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2712     | TAL10RP151LB | INDUCTION COIL          | 1   | G0ZZ00001908          |
| L2713-15  | EXCELD35C    | BEAD CHOKE              | 3   |                       |
| L2716,17  | TALL08N330KA | INDUCTION COIL          | 2   | G0A330GA0011          |
| L2718,19  | TLFP095      | CHOKE COIL              | 2   | G0A221GA0001          |
| L2722-25  | EXCELD35C    | BEAD CHOKE              | 4   |                       |
| L2727     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2729     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2730     | TALL08N680KA | INDUCTION COIL          | 1   | G0A680GA0011          |
| L2732     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L2734,35  | EXCELD35C    | BEAD CHOKE              | 2   |                       |
| L2736-43  | EXCML45A910H | BEAD CHOKE              | 8   |                       |
| L2744     | EXCCL4532U1  | BEAD CHOKE              | 1   |                       |
| L3002,03  | ERDS2TC0     | C 0 OHM, 1/4W           | 2   |                       |
| L3004     | ELESE4R7KA   | PEAKING COIL            | 1   |                       |
| L3050     | ELESE221KA   | PEAKING COIL            | 1   |                       |
| L3403,04  | ELESE1R5KA   | PEAKING COIL            | 2   |                       |
| L3415     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L3420     | ELESE4R7JA   | PEAKING COIL            | 1   |                       |
| L3424     | EXCELD35C    | BEAD CHOKE              | 1   |                       |
| L6719,20  | EXCELD35C    | BEAD CHOKE              | 2   |                       |
| L7001-06  | EXCELSA39    | BEAD CHOKE              | 6   |                       |
| L7007,08  | ELJPA100KB   | CHIP INDUCTOR           | 2   |                       |
| L7704     | ELESE100JA   | PEAKING COIL            | 1   |                       |
| LB1       | TJS3A9900    | 10P CONNECTOR           | 1   | K1KA10A00218          |
| LB2       | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171          |
| LC1101,02 | TLK212T256AL | EMI FILTER              | 2   | J0HAAB000012          |
| LC1104-06 | TLK212T256AL | EMI FILTER              | 3   | J0HAAB000012          |
| LC1107-09 | ELKE103FA    | NOISE FILTER            | 3   |                       |
| LC1110-13 | TLK212T256AL | EMI FILTER              | 4   | J0HAAB000012          |
| LC1114    | TLK20LFA224M | EMI FILTER              | 1   | J0HABB000004 TX MODEL |
| LC1115-20 | TLK20LFA103M | EMI FILTER              | 6   |                       |
| LC1121-24 | TLK20LFA224M | EMI FILTER              | 4   | J0HABB000004          |
| LC1125-28 | TLK20LFA103M | EMI FILTER              | 4   |                       |
| LC1130-34 | TLK20LFA103M | EMI FILTER              | 5   |                       |
| LC1135    | TLK212T256AL | EMI FILTER              | 1   | J0HAAB000012          |
| LC1136-39 | TLK20LFA103M | EMI FILTER              | 4   |                       |
| LC1140    | TLK212T256AL | EMI FILTER              | 1   | J0HAAB000012          |
| LC1141-43 | TLK20LFA103M | EMI FILTER              | 3   |                       |
| LC1144-46 | TLK212T256AL | EMI FILTER              | 3   | J0HAAB000012          |
| LC1147    | ELKE103FA    | NOISE FILTER            | 1   |                       |
| LC1300-05 | TLK20LFA224M | EMI FILTER              | 6   | J0HABB000004          |
| LC1309,10 | TLK20LFA223M | EMI FILTER              | 2   | J0HABB000003          |
| LC1312    | TLK20LFA223M | EMI FILTER              | 1   | J0HABB000003          |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks            |
|-----------|--------------|-------------------------|-----|--------------------|
| LC1314-19 | TLK20LFA223M | EMI FILTER              | 6   | J0HABB000003       |
| LC1320    | TLK20LFA224M | EMI FILTER              | 1   | J0HABB000004       |
| LC1321    | TLK20LFA223M | EMI FILTER              | 1   | J0HABB000003       |
| LC1323    | TLK20LFA224M | EMI FILTER              | 1   | J0HABB000004       |
| LC1324,25 | TLK20LFA223M | EMI FILTER              | 2   | J0HABB000003       |
| LC1326-28 | TLK20LFA224M | EMI FILTER              | 3   | J0HABB000004       |
| LC1329-33 | ELKE103FA    | NOISE FILTER            | 5   |                    |
| LG1       | TJS3A9680    | 7P CONNECTOR            | 1   | K1KA07A00095       |
| LG2       | TJS3A9880    | 8P CONNECTOR            | 1   | K1KA08A00179       |
| LG3       | TJS3A9910    | 11P CONNECTOR           | 1   | K1KA11A00059       |
| LG4       | TJS3A9900    | 10P CONNECTOR           | 1   | K1KA10A00218       |
| LG5-G7    | TJS3A9640    | 3P CONNECTOR            | 3   | K1KA03A00171       |
| LR1       | TJS3A9910    | 11P CONNECTOR           | 1   | K1KA11A00059       |
| LR2       | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171       |
| M1        | TJS169610    | 4P CONNECTOR            | 1   | K1KA04B00005       |
| M11       | TJS3A9660    | 5P CONNECTOR            | 1   | K1KA05A00138       |
| M12       | TJS3A9920    | 12P CONNECTOR           | 1   | K1KA12A00156       |
| M13       | TJS3A9680    | 7P CONNECTOR            | 1   | K1KA07A00095       |
| P2        | TJS169700    | 5P CONNECTOR            | 1   | K1KA05A00090       |
| P4        | TJS3A9640    | 3P CONNECTOR            | 1   | K1KA03A00171       |
| P40       | TJS3A9140    | CONNECTOR               | 1   | K1KA08B00121       |
| P50       | TJS3A8010    | 3P CONNECTOR            | 1   | K1KB03B00009       |
| P60       | TJS3A9140    | CONNECTOR               | 1   | K1KA08B00121       |
| P70       | TJS3A9140    | CONNECTOR               | 1   | K1KA08B00121       |
| Q002      | 2SB709A      | TRANSISTOR              | 1   | 2SB0709A           |
| Q052      | 2SB709A      | TRANSISTOR              | 1   | 2SB0709A           |
| Q353      | 2SC3942      | TRANSISTOR              | 1   |                    |
| Q354      | 2SC3790E     | TRANSISTOR              | 1   | B1BAAN000024       |
| Q355, 56  | 2SA1480      | TRANSISTOR              | 2   |                    |
| Q373      | 2SC3942      | TRANSISTOR              | 1   |                    |
| Q374      | 2SC3790E     | TRANSISTOR              | 1   | B1BAAN000024       |
| Q375, 76  | 2SA1480      | TRANSISTOR              | 2   |                    |
| Q393      | 2SC3942      | TRANSISTOR              | 1   |                    |
| Q394      | 2SC3790E     | TRANSISTOR              | 1   | B1BAAN000024       |
| Q395, 96  | 2SA1480      | TRANSISTOR              | 2   |                    |
| Q451      | 2SD601A-R    | TRANSISTOR              | 1   | 2SD0601AR          |
| Q460-63   | 2SD601A-R    | TRANSISTOR              | 4   | 2SD0601AR          |
| Q501      | 2SK2962      | FET                     | 1   |                    |
| Q551      | 2SC5612      | TRANSISTOR              | 1   |                    |
| Q552-54   | 2SC1473      | TRANSISTOR              | 3   | 2SC14730E          |
| Q701      | 2SK2538000LB | FET                     | 1   |                    |
| Q805      | 2SK2123000LB | FET                     | 1   |                    |
| Q849      | 2SA19610Q0HW | TRANSISTOR              | 1   |                    |
| Q852      | 2SC3311A     | TRANSISTOR              | 1   | 2SC3311AW          |
| Q854      | 2SD601A-R    | TRANSISTOR              | 1   | 2SD0601AR          |
| Q902, 03  | 2SC3311A     | TRANSISTOR              | 2   | 2SC3311AW          |
| Q907      | 2SC3311A     | TRANSISTOR              | 1   | 2SC3311AW          |
| Q908      | 2SC1318A     | TRANSISTOR              | 1   | 2SC1318AW          |
| Q951      | 2SA720-R     | TRANSISTOR              | 1   |                    |
| Q952, 53  | 2SC1318A     | TRANSISTOR              | 2   | 2SC1318AW          |
| Q954      | 2SA720-R     | TRANSISTOR              | 1   |                    |
| Q955      | 2SA1535A     | TRANSISTOR              | 1   |                    |
| Q956      | 2SC3944A     | TRANSISTOR              | 1   |                    |
| Q961      | 2SA720A      | TRANSISTOR              | 1   |                    |
| Q962      | 2SC1318A     | TRANSISTOR              | 1   | 2SC1318AW          |
| Q1003     | 2SC3311A     | TRANSISTOR              | 1   | 2SC3311AW          |
| Q1107     | 2SD601A-R    | TRANSISTOR              | 1   | 2SD0601AR          |
| Q1115     | 2SD601A-R    | TRANSISTOR              | 1   | 2SD0601AR          |
| Q1121-23  | 2SD601A-R    | TRANSISTOR              | 3   | 2SD0601AR          |
| Q1125     | 2SD601A-R    | TRANSISTOR              | 1   | 2SD0601AR TX MODEL |
| Q1303-05  | 2SD601A-R    | TRANSISTOR              | 3   | 2SD0601AR          |
| Q1306     | 2SB709A      | TRANSISTOR              | 1   | 2SB0709A           |
| Q1307     | XN5601       | TRANSISTOR              | 1   | XN05601            |
| Q1308, 09 | 2SB709A      | TRANSISTOR              | 2   | 2SB0709A           |
| Q1311-16  | 2SB709A      | TRANSISTOR              | 6   | 2SB0709A           |
| Q1318, 19 | 2SB709A      | TRANSISTOR              | 2   | 2SB0709A           |
| Q1321, 22 | 2SB709A      | TRANSISTOR              | 2   | 2SB0709A           |

| Ref. No.  | Part No.    | Part Name & Description | Pcs | Remarks   |
|-----------|-------------|-------------------------|-----|-----------|
| Q1325, 26 | 2SB709A     | TRANSISTOR              | 2   | 2SB0709A  |
| Q1327     | 2SK198R     | FET                     | 1   | 2SK01980R |
| Q1328     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q1329     | 2SK198R     | FET                     | 1   | 2SK01980R |
| Q1333     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q1336     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q2002-05  | 2SB709A     | TRANSISTOR              | 4   | 2SB0709A  |
| Q2040, 41 | 2SD601A-R   | TRANSISTOR              | 2   | 2SD0601AR |
| Q2043     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q2215, 16 | 2SD601A-R   | TRANSISTOR              | 2   | 2SD0601AR |
| Q2301-06  | 2SD601A-R   | TRANSISTOR              | 6   | 2SD0601AR |
| Q2307, 08 | 2SB709A     | TRANSISTOR              | 2   | 2SB0709A  |
| Q2309-12  | 2SD601A-R   | TRANSISTOR              | 4   | 2SD0601AR |
| Q2361     | 2SC3311A    | TRANSISTOR              | 1   | 2SC3311AW |
| Q3006     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q3007     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q3011     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q3071, 72 | 2SD601A-R   | TRANSISTOR              | 2   | 2SD0601AR |
| Q3130     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q3131     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q3132     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q3351     | 2SB1030A    | TRANSISTOR              | 1   |           |
| Q3361     | 2SB1030A    | TRANSISTOR              | 1   |           |
| Q3371     | 2SB1030A    | TRANSISTOR              | 1   |           |
| Q3401     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q3402     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q7001, 02 | 2SD601A-R   | TRANSISTOR              | 2   | 2SD0601AR |
| Q7101     | XN1501      | TRANSISTOR              | 1   | XN01501   |
| Q7102     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q7103     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q7701-03  | 2SD601A-R   | TRANSISTOR              | 3   | 2SD0601AR |
| Q7704-06  | 2SB709A     | TRANSISTOR              | 3   | 2SB0709A  |
| Q7707-09  | 2SC3526H    | TRANSISTOR              | 3   |           |
| Q7710, 11 | 2SB709A     | TRANSISTOR              | 2   | 2SB0709A  |
| Q7712     | 2SC3757-R   | TRANSISTOR              | 1   | 2SC37570R |
| Q7713, 14 | 2SB709A     | TRANSISTOR              | 2   | 2SB0709A  |
| Q7715     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q7716     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q7717-19  | 2SD601A-R   | TRANSISTOR              | 3   | 2SD0601AR |
| Q7720-25  | 2SB709A     | TRANSISTOR              | 6   | 2SB0709A  |
| Q9301     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| Q9601     | 2SB709A     | TRANSISTOR              | 1   | 2SB0709A  |
| Q9602     | 2SC4635     | TRANSISTOR              | 1   |           |
| Q9603     | 2SD601A-R   | TRANSISTOR              | 1   | 2SD0601AR |
| R001      | ERJ6GEYJ393 | M 39KOHM, J, 1/10W      | 1   |           |
| R002, 03  | ERJ6GEYJ683 | M 68KOHM, J, 1/10W      | 2   |           |
| R005      | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 1   |           |
| R008      | ERJ6GEYJ472 | M 4.7KOHM, J, 1/10W     | 1   |           |
| R052, 53  | ERJ6GEYJ683 | M 68KOHM, J, 1/10W      | 2   |           |
| R055      | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 1   |           |
| R056      | ERJ6GEYJ393 | M 39KOHM, J, 1/10W      | 1   |           |
| R057      | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 1   |           |
| R058      | ERJ6GEYJ101 | M 100 OHM, J, 1/10W     | 1   |           |
| R059      | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 1   |           |
| R064      | ERJ6GEYJ472 | M 4.7KOHM, J, 1/10W     | 1   |           |
| R355      | ERDS2TJ470  | C 47 OHM, J, 1/4W       | 1   |           |
| R357      | ERG7ZJ272   | M 2.7KOHM, J, 7W        | 1   |           |
| R358      | ERDS2TJ473  | C 47KOHM, J, 1/4W       | 1   |           |
| R359      | ERDS2TJ563  | C 56KOHM, J, 1/4W       | 1   |           |
| R362      | ERC12GK331  | S 330 OHM, 1/2W         | 1   |           |
| R365      | ERDS2TJ821  | C 820 OHM, J, 1/4W      | 1   |           |
| R366, 67  | ERG12SJ101P | M 100 OHM, J, 1/2W      | 2   |           |
| R368, 69  | ERDS1FJ330  | C 33 OHM, J, 1/2W       | 2   |           |
| R372      | ERC12GK331  | S 330 OHM, 1/2W         | 1   |           |
| R373      | ERG7ZJ272   | M 2.7KOHM, J, 7W        | 1   |           |
| R375      | ERDS2TJ470  | C 47 OHM, J, 1/4W       | 1   |           |
| R377      | ERDS2TJ104  | C 100KOHM, J, 1/4W      | 1   |           |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| R378     | ERDS2TJ473   | C 47KOHM, J,1/4W        | 1   |              |
| R379     | ERDS2TJ563   | C 56KOHM, J,1/4W        | 1   |              |
| R382     | ERC12GK331   | S 330 OHM, 1/2W         | 1   |              |
| R383     | ERG7ZJ272    | M 2.7KOHM, J, 7W        | 1   |              |
| R385     | ERDS2TJ821   | C 820 OHM, J,1/4W       | 1   |              |
| R386,87  | ERG12SJ101P  | M 100 OHM, J,1/2W       | 2   |              |
| R388,89  | ERDS1FJ330   | C 33 OHM, J,1/2W        | 2   |              |
| R390     | ERDS2TJ821   | C 820 OHM, J,1/4W       | 1   |              |
| R391,92  | ERG12SJ101P  | M 100 OHM, J,1/2W       | 2   |              |
| R393,94  | ERDS1FJ330   | C 33 OHM, J,1/2W        | 2   |              |
| R395     | ERDS2TJ470   | C 47 OHM, J,1/4W        | 1   |              |
| R398     | ERDS2TJ473   | C 47KOHM, J,1/4W        | 1   |              |
| R399     | ERDS2TJ563   | C 56KOHM, J,1/4W        | 1   |              |
| R451,52  | ERX12SJ3R3   | M 3.3 OHM, J,1/2W       | 2   |              |
| R453     | ERJ6GEYJ393  | M 39KOHM,J,1/10W        | 1   |              |
| R454     | ERJ6GEYJ123  | M 12KOHM,J,1/10W        | 1   |              |
| R455     | ERG3FJS331D  | M 330 OHM, J, 3W        | 1   |              |
| R456     | ERJ6ENF9531  | M9.53KOHM, 1/10W        | 1   |              |
| R457     | ERJ6ENF7151  | M7.15KOHM, 1/10W        | 1   |              |
| R458     | ERJ6ENF3481  | M3.48KOHM, 1/10W        | 1   |              |
| R460     | ERDS1FJ1R0   | C 1 OHM, J,1/2W         | 1   |              |
| R461     | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 1   |              |
| R462     | ERJ6GEYJ101  | M 100 OHM,J,1/10W       | 1   |              |
| R463     | ERJ6GEYJ563  | M 56KOHM,J,1/10W        | 1   |              |
| R464     | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 1   |              |
| R465     | ERJ6GEYJ272  | M 2.7KOHM,J,1/10W       | 1   |              |
| R466     | ERJ6GEYJ472  | M 4.7KOHM,J,1/10W       | 1   |              |
| R467     | ERJ6GEY0R00  | M 0 OHM,J,1/10W         | 1   |              |
| R468     | ERJ6GEYJ332  | M 3.3KOHM,J,1/10W       | 1   |              |
| R469     | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 1   |              |
| R470,71  | ERJ6GEY0R00  | M 0 OHM,J,1/10W         | 2   |              |
| R472-74  | ERDS2TJ331   | C 330 OHM, J,1/4W       | 3   |              |
| R475     | ERJ6ENF3011  | M3.01KOHM, 1/10W        | 1   |              |
| R476     | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 1   |              |
| R477     | ERJ6GEYJ333  | M 33KOHM,J,1/10W        | 1   |              |
| R478,79  | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 2   |              |
| R501     | ERDS2TJ104   | C 100KOHM, J,1/4W       | 1   |              |
| R502     | ERDS2TJ680   | C 68 OHM, J,1/4W        | 1   |              |
| R503     | ERG3FJS680D  | M 68 OHM, J, 3W         | 1   |              |
| R504     | ERG1SJ102P   | M 1KOHM, J, 1W          | 1   |              |
| R506     | ERDS2TJ103   | C 10KOHM, J,1/4W        | 1   |              |
| R507     | ERDS2TJ152   | C 1.5KOHM, J,1/4W       | 1   |              |
| R510     | ERDS1FJ1R5   | C 1.5 OHM, J,1/2W       | 1   |              |
| R511     | ERJ6GEYJ101  | M 100 OHM,J,1/10W       | 1   |              |
| R512     | ERJ6GEYJ222  | M 2.2KOHM,J,1/10W       | 1   |              |
| R513     | ERJ6GEYJ103  | M 10KOHM,J,1/10W        | 1   |              |
| R514     | ERJ6GEYJ102  | M 1KOHM,J,1/10W         | 1   |              |
| R515,16  | ERDS2TJ222   | C 2.2KOHM, J,1/4W       | 2   |              |
| R517     | EROS2CKF4991 | M4.99KOHM, F,1/4W       | 1   |              |
| R518     | ERDS2TJ222   | C 2.2KOHM, J,1/4W       | 1   |              |
| R519     | EROS2CKF4532 | M4.53KOHM, F,1/2W       | 1   | EROS2CKF4532 |
| R520     | EROS2CKF3832 | M38.3KOHM, F,1/4W       | 1   | EROS2CKF3832 |
| R521     | EROS2CKF6041 | M6.04KOHM, F,1/4W       | 1   | EROS2CKF6041 |
| R522     | EROS2CKF3321 | M3.32KOHM, F,1/4W       | 1   |              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks      |
|----------|--------------|-------------------------|-----|--------------|
| R524     | ERJ6GEYJ101  | M 100 OHM,J,1/10W       | 1   |              |
| R525     | ERQ12HKR33   | F0.33 OHM, K,1/2W       | 1   |              |
| R526     | ERQ12HJ330   | F 33 OHM, J,1/2W        | 1   |              |
| R527     | ERJ6ENF2552  | M25.5KOHM, 1/10W        | 1   |              |
| R528     | ERJ6ENF8061  | M8.06KOHM, 1/10W        | 1   |              |
| R529     | EROS2CKF4991 | M4.99KOHM, F,1/4W       | 1   |              |
| R530     | ERDS2TJ471   | C 470 OHM, J,1/4W       | 1   |              |
| R531     | ERDS2TJ275   | C 2.7MOHM, J,1/4W       | 1   |              |
| R532     | ERDS2TJ224   | C 220KOHM, J,1/4W       | 1   |              |
| R533     | EVMAASA00B34 | CONTROL 30KOHMB         | 1   |              |
| R534     | ERDS2TJ333   | C 33KOHM, J,1/4W        | 1   |              |
| R540     | ERDS2TJ104   | C 100KOHM, J,1/4W       | 1   |              |
| R545     | ERG1SJ100P   | M 10 OHM, J, 1W         | 1   |              |
| R647     | ERJ6GEYJ680  | M 68 OHM,J,1/10W        | 1   |              |
| R652,53  | ERJ6GEYJ331  | M 330 OHM,J,1/10W       | 2   |              |
| R654     | TAJAAH0101JV | M 100 OHM,J,1/16W       | 1   | D0GB101JA006 |
| R655-57  | ERJ6GEYJ122  | M 1.2KOHM,J,1/10W       | 3   |              |
| R658     | ERJ6GEYJ331  | M 330 OHM,J,1/10W       | 1   |              |
| R701     | ERDS1FJ680   | C 68 OHM, J,1/2W        | 1   |              |
| R703     | ERF5AK4R7    | W 4.7 OHM, K, 5W        | 1   |              |
| R779     | ERJ6ENF1152  | M11.5KOHM, 1/10W        | 1   |              |
| R780     | ERJ6GEYJ822  | M 8.2KOHM,J,1/10W       | 1   |              |
| R781     | ERJ6GEYJ102  | M 1KOHM,J,1/10W         | 1   |              |
| R782     | ERDS2TJ391   | C 390 OHM, J,1/4W       | 1   |              |
| R783     | ERJ6GEYJ682  | M 6.8KOHM,J,1/10W       | 1   |              |
| R801     | ERF10ZK4R7   | W 4.7 OHM, Z, 10W       | 1   |              |
| R803,04  | ERG2FJS393D  | M 39K OHM, J, 2W        | 2   |              |
| R806     | ERX12SJR12P  | M 12 OHM, J,1/2W        | 1   |              |
| R810     | ERX12SJR12P  | M 12 OHM, J,1/2W        | 1   |              |
| R815     | ERD75TAJ825  | C 8.2MOHM, J,3/4W       | 1   | △            |
| R819     | ERDS2TJ681   | C 680 OHM, J,1/4W       | 1   |              |
| R820     | ERDS2TJ562   | C 5.6KOHM, J,1/4W       | 1   |              |
| R821     | ERDS2TJ680   | C 68 OHM, J,1/4W        | 1   |              |
| R822     | ERDS2TJ820   | C 82 OHM, J,1/4W        | 1   |              |
| R832     | ERDS1FJ391   | C 390 OHM, J,1/2W       | 1   |              |
| R836,37  | ERDS2TJ152   | C 1.5KOHM, J,1/4W       | 2   |              |
| R845     | ERX1SJR27    | M 0.27 OHM, J, 1W       | 1   |              |
| R854     | ERDS2TJ221   | C 220 OHM, J,1/4W       | 1   |              |
| R861     | ERG3FJS470D  | M 47 OHM, J, 3W         | 1   |              |
| R867     | ERG3FJS153D  | M 15KOHM, J, 3W         | 1   |              |
| R870     | ERC12ZGK335  | S 3.3MOHM, K,1/2W       | 1   | △            |
| R871     | ERJ6GEYJ332  | M 3.3KOHM,J,1/10W       | 1   |              |
| R872     | ERJ6GEYJ154  | M 150KOHM,J,1/10W       | 1   |              |
| R873     | ERDS1FJ102   | C 1KOHM, J,1/2W         | 1   |              |
| R877     | ERJ6GEYJ102  | M 1KOHM,J,1/10W         | 1   |              |
| R880     | ERDS2TJ183   | C 18KOHM, J,1/4W        | 1   |              |
| R881     | ERJ6GEYJ562  | M 5.6KOHM,J,1/10W       | 1   |              |
| R882     | ERDS2TJ101   | C 100 OHM, J,1/4W       | 1   |              |
| R883     | ERG1SJ104P   | M 100KOHM, J, 1W        | 1   |              |
| R884     | ERDS2TJ223   | C 22KOHM, J,1/4W        | 1   |              |
| R885,86  | ERX1SJ1R0    | M 1.0 OHM, J, 1W        | 2   |              |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks      |
|-----------|--------------|-------------------------|-----|--------------|
| R890      | ERDS1FJ102   | C 1KOHM, J,1/2W         | 1   |              |
| R891      | ERDS1FJ122   | C 1.2KOHM, J,1/2W       | 1   |              |
| R901      | ERDS1FJ821   | C 820 OHM, J,1/2W       | 1   |              |
| R902      | ERDS2TJ683   | C 68KOHM, J,1/4W        | 1   |              |
| R903      | ERDS2TJ153   | C 15KOHM, J,1/4W        | 1   |              |
| R904, 05  | ERDS2TJ472   | C 4.7KOHM, J,1/4W       | 2   |              |
| R906      | ERDS2TJ101   | C 100 OHM, J,1/4W       | 1   |              |
| R907      | ERDS2TJ151   | C 150 OHM, J,1/4W       | 1   |              |
| R908      | ERDS2TJ272   | C 2.7KOHM, J,1/4W       | 1   |              |
| R914      | ERDS2TJ562   | C 5.6KOHM, J,1/4W       | 1   |              |
| R915      | ERDS2TJ182   | C 1.8KOHM, J,1/4W       | 1   |              |
| R916      | ERDS2TJ391   | C 390 OHM, J,1/4W       | 1   |              |
| R917      | ERDS2TJ470   | C 47 OHM, J,1/4W        | 1   |              |
| R920      | ERDS2TJ181   | C 180 OHM, J,1/4W       | 1   |              |
| R922, 23  | ERDS2TJ103   | C 10KOHM, J,1/4W        | 2   |              |
| R951      | ERDS2TJ271   | C 270 OHM, J,1/4W       | 1   |              |
| R952      | ERDS1FJ152   | C 1.5KOHM, J,1/2W       | 1   |              |
| R953      | ERDS2TJ271   | C 270 OHM, J,1/4W       | 1   |              |
| R954      | ERDS1FJ152   | C 1.5KOHM, J,1/2W       | 1   |              |
| R955      | ERDS2TJ271   | C 270 OHM, J,1/4W       | 1   |              |
| R956      | ERDS1FJ152   | C 1.5KOHM, J,1/2W       | 1   |              |
| R960      | ERQ14AJ100P  | F 10 OHM, J,1/4W        | 1   |              |
| R964      | ERDS2FJ122   | C 1.2KOHM, 1/4W         | 1   |              |
| R965      | ERDS2TJ683   | C 68KOHM, J,1/4W        | 1   |              |
| R966      | ERGLS271     | M 270 OHM, J, 1W        | 1   |              |
| R967      | ERDS2TJ683   | C 68KOHM, J,1/4W        | 1   |              |
| R968      | ERDS2TJ122   | C 1.2KOHM, J,1/4W       | 1   |              |
| R969      | ERDS1FJ390   | C 39 OHM, J,1/2W        | 1   |              |
| R970, 71  | ERDS2TJ8R2   | C 8.2 OHM, J,1/4W       | 2   |              |
| R972      | ERDS1FJ390   | C 39 OHM, J,1/2W        | 1   |              |
| R973      | ERDS1FJ470   | C 47 OHM, J,1/2W        | 1   |              |
| R975-77   | ERGLS271     | M 270 OHM, J, 1W        | 3   |              |
| R978      | ERDS2TJ104   | C 100KOHM, J,1/4W       | 1   |              |
| R1043     | ERDS2TJ682   | C 6.8KOHM, J,1/4W       | 1   |              |
| R1044     | ERDS2TJ123   | C 12KOHM, J,1/4W        | 1   |              |
| R1045     | ERDS2TJ223   | C 22KOHM, J,1/4W        | 1   |              |
| R1046     | ERDS2TJ683   | C 68KOHM, J,1/4W        | 1   |              |
| R1050     | ERJ6GEYJ104  | M 100KOHM, J,1/10W      | 1   |              |
| R1051     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |              |
| R1081     | ERDS2TJ332   | C 3.3KOHM, J,1/4W       | 1   |              |
| R1082     | ERDS2TJ103   | C 10KOHM, J,1/4W        | 1   |              |
| R1083, 84 | ERDS2TJ101   | C 100 OHM, J,1/4W       | 2   |              |
| R1085     | ERDS2TJ221   | C 220 OHM, J,1/4W       | 1   |              |
| R1101, 02 | ERJ3GEYJ562  | M 5.6KOHM, J,1/16W      | 2   |              |
| R1103     | ERJ6GEYJ473  | M 47KOHM, J,1/10W       | 1   |              |
| R1104     | ERJ6GEYJ101  | M 100 OHM, J,1/10W      | 1   |              |
| R1105     | ERJ6GEYJ473  | M 47KOHM, J,1/10W       | 1   |              |
| R1106     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |              |
| R1107-10  | ERJ6GEYJ272  | M 2.7KOHM, J,1/10W      | 4   |              |
| R1111, 12 | TAJAAH0101JV | M 100 OHM, J,1/16W      | 2   | D0GB101JA006 |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks                  |
|-----------|--------------|-------------------------|-----|--------------------------|
| R1113     | ERJ3GEYJ103  | M 10KOHM, J,1/16W       | 1   |                          |
| R1114     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1115     | ERJ6GEYJ101  | M 100 OHM, J,1/10W      | 1   |                          |
| R1116     | ERJ3GEYJ153  | M 15KOHM, J,1/16W       | 1   |                          |
| R1117     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |                          |
| R1118-21  | TAJAAH0101JV | M 100 OHM, J,1/16W      | 4   | D0GB101JA006             |
| R1122-25  | ERJ3GEYJ103  | M 10KOHM, J,1/16W       | 4   |                          |
| R1126     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |                          |
| R1127     | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 1   |                          |
| R1128     | ERJ3GEYJ273  | M 27KOHM, J,1/16W       | 1   |                          |
| R1131     | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 1   |                          |
| R1132     | ERJ6GEY0R00  | M 0 OHM, J,1/10W        | 1   |                          |
| R1134     | ERJ3GEYJ473  | M 47KOHM, J,1/16W       | 1   |                          |
| R1143     | TAJAAH0101JV | M 100 OHM, J,1/16W      | 1   | D0GB101JA006             |
| R1145     | ERJ3GEYJ391  | M 390 OHM, J,1/16W      | 1   | D0GB391JA002<br>TX MODEL |
| R1146     | ERJ3GEYJ103  | M 10KOHM, J,1/16W       | 1   |                          |
| R1147     | TAJAAH0101JV | M 100 OHM, J,1/16W      | 1   | D0GB101JA006<br>TX MODEL |
| R1153     | ERJ3GEYJ563  | M 56KOHM, J,1/16W       | 1   |                          |
| R1154     | ERJ3GEYJ102  | M 1KOHM, J,1/16W        | 1   |                          |
| R1155     | ERJ3GEYJ223  | M 22KOHM, J,1/16W       | 1   |                          |
| R1156     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |                          |
| R1157, 58 | TAJAAH0101JV | M 100 OHM, J,1/16W      | 2   | D0GB101JA006             |
| R1159     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |                          |
| R1160     | ERJ3GEYJ182  | M 1.8KOHM, J,1/16W      | 1   |                          |
| R1161     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1162     | ERJ6GEYJ123  | M 12KOHM, J,1/10W       | 1   |                          |
| R1164     | ERJ6GEYJ222  | M 2.2KOHM, J,1/10W      | 1   |                          |
| R1166     | ERJ6GEYJ332  | M 3.3KOHM, J,1/10W      | 1   |                          |
| R1168     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1169     | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 1   |                          |
| R1170     | ERJ3GEYJ103  | M 10KOHM, J,1/16W       | 1   |                          |
| R1172     | ERJ3GEYJ472  | M 4.7KOHM, J,1/16W      | 1   |                          |
| R1177     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1178     | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 1   |                          |
| R1179     | ERJ3GEYJ682  | M 6.8KOHM, J,1/16W      | 1   |                          |
| R1180     | ERJ3GEYJ392  | M 3.9KOHM, J,1/16W      | 1   |                          |
| R1181     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1188-93  | TAJAAH0101JV | M 100 OHM, J,1/16W      | 6   | D0GB101JA006             |
| R1194     | ERJ3GEYJ220  | M 22 OHM, J,1/16W       | 1   |                          |
| R1195     | TAJAAH0101JV | M 100 OHM, J,1/16W      | 1   | D0GB101JA006             |
| R1196     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1202     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1205     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1209     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1214     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1217     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1221     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1225     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1232, 33 | EXB38V680J   | RESISTOR ARRAY          | 2   |                          |
| R1236     | EXB38V680J   | RESISTOR ARRAY          | 1   |                          |
| R1239, 40 | ERJ6GEYJ223  | M 22KOHM, J,1/10W       | 2   |                          |
| R1241     | ERJ6GEYJ473  | M 47KOHM, J,1/10W       | 1   |                          |
| R1242     | ERJ6GEY0R00  | M 0 OHM, J,1/10W        | 1   |                          |
| R1243     | ERJ6GEYJ562  | M 5.6KOHM, J,1/10W      | 1   |                          |
| R1249, 50 | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 2   |                          |
| R1251     | ERJ6GEYJ103  | M 10KOHM, J,1/10W       | 1   |                          |
| R1253     | ERJ6GEY0R00  | M 0 OHM, J,1/10W        | 1   |                          |

| Ref. No.  | Part No.    | Part Name & Description | Pcs | Remarks  |
|-----------|-------------|-------------------------|-----|----------|
| R1255     | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     | 1   | TX MODEL |
| R1256     | ERJ3GEYJ473 | M 47KOHM, J, 1/16W      | 1   | TX MODEL |
| R1257     | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 1   | TX MODEL |
| R1258     | ERJ3GEYJ223 | M 22KOHM, J, 1/16W      | 1   | TX MODEL |
| R1264     | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     | 1   |          |
| R1293, 94 | ERJ6ENF3901 | M 3.9KOHM, 1/10W        | 2   |          |
| R1301     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |          |
| R1302     | ERJ3GEYJ103 | M 10KOHM, J, 1/16W      | 1   |          |
| R1303     | ERJ6ENF2200 | M 220 OHM, 1/10W        | 1   |          |
| R1304     | ERJ3EKF7151 | M 7.15K OHM, 1/16W      | 1   |          |
| R1305     | ERJ6ENF2200 | M 220 OHM, 1/10W        | 1   |          |
| R1306     | ERJ6ENF1200 | M 120 OHM, 1/10W        | 1   |          |
| R1307     | ERJ3EKF6801 | M 6.8K OHM, 1/16W       | 1   |          |
| R1308     | ERJ3EKF3901 | M 3.9K OHM, 1/16W       | 1   |          |
| R1309, 10 | ERJ6ENF3741 | M 3.74KOHM, 1/10W       | 2   |          |
| R1311     | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W     | 1   |          |
| R1312     | ERJ3GEYJ332 | M 3.3KOHM, J, 1/16W     | 1   |          |
| R1313, 14 | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 2   |          |
| R1315     | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     | 1   |          |
| R1316     | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W     | 1   |          |
| R1317     | ERJ3GEY0R00 | M 0 OHM, 1/16W          | 1   |          |
| R1318     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |          |
| R1319     | ERJ6ENF5600 | M 560 OHM, 1/10W        | 1   |          |
| R1320     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |          |
| R1321     | ERJ3GEYJ152 | M 1.5KOHM, J, 1/16W     | 1   |          |
| R1322     | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     | 1   |          |
| R1323     | ERJ6ENF47R0 | M 47 OHM, 1/10W         | 1   |          |
| R1324     | ERJ3GEYJ152 | M 1.5KOHM, J, 1/16W     | 1   |          |
| R1326     | ERJ6ENF47R0 | M 47 OHM, 1/10W         | 1   |          |
| R1327     | ERJ6ENF1500 | M 150 OHM, 1/10W        | 1   |          |
| R1328     | ERJ3GEYJ392 | M 3.9KOHM, J, 1/16W     | 1   |          |
| R1329     | ERJ6ENF47R0 | M 47 OHM, 1/10W         | 1   |          |
| R1330     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |          |
| R1331     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |          |
| R1332     | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      | 1   |          |
| R1335     | ERJ3GEYJ220 | M 22 OHM, J, 1/16W      | 1   |          |
| R1338     | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     | 1   |          |
| R1339     | ERJ3GEYJ121 | M 120 OHM, J, 1/16W     | 1   |          |
| R1343     | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     | 1   |          |
| R1344     | ERJ6ENF1500 | M 150 OHM, 1/10W        | 1   |          |
| R1345     | ERJ3GEYJ103 | M 10KOHM, J, 1/16W      | 1   |          |
| R1346     | ERJ3GEYJ181 | M 180 OHM, J, 1/16W     | 1   |          |
| R1347     | ERJ3GEYJ103 | M 10KOHM, J, 1/16W      | 1   |          |
| R1348     | ERJ6ENF2200 | M 220 OHM, 1/10W        | 1   |          |
| R1349     | ERJ6ENF2701 | M 2.7KOHM, 1/10W        | 1   |          |
| R1350     | ERJ6ENF2200 | M 220 OHM, 1/10W        | 1   |          |
| R1351     | ERJ6ENF2701 | M 2.7KOHM, 1/10W        | 1   |          |
| R1352     | ERJ6ENF2200 | M 220 OHM, 1/10W        | 1   |          |
| R1353     | ERJ3GEYJ221 | M 220 OHM, J, 1/16W     | 1   |          |
| R1354     | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     | 1   |          |
| R1355     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |          |
| R1356     | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     | 1   |          |
| R1357     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |          |
| R1358     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |          |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks      |
|-----------|--------------|-------------------------|-----|--------------|
| R1359     | ERJ3GEYJ103  | M 10KOHM, J, 1/16W      | 1   |              |
| R1360     | ERJ6ENF5601  | M 5.6KOHM, 1/10W        | 1   |              |
| R1361     | ERJ3GEYJ152  | M 1.5KOHM, J, 1/16W     | 1   |              |
| R1362     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1363-65  | TAJAAH0101JV | M 100 OHM, J, 1/16W     | 3   | D0GB101JA006 |
| R1366     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1367     | ERJ6ENF3000  | M 300 OHM, 1/10W        | 1   |              |
| R1368     | ERJ3GEYJ221  | M 220 OHM, J, 1/16W     | 1   |              |
| R1369     | ERJ3GEYJ823  | M 82KOHM, J, 1/16W      | 1   |              |
| R1370     | ERJ3GEYJ103  | M 10KOHM, J, 1/16W      | 1   |              |
| R1371     | ERJ3GEYJ273  | M 27KOHM, J, 1/16W      | 1   |              |
| R1372     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1373     | ERJ3GEYJ273  | M 27KOHM, J, 1/16W      | 1   |              |
| R1374     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1375, 76 | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 2   |              |
| R1377     | ERJ3GEYJ224  | M 220KOHM, J, 1/16W     | 1   |              |
| R1379     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1380     | ERJ3GEYJ273  | M 27KOHM, J, 1/16W      | 1   |              |
| R1381     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1382     | ERJ3GEYJ273  | M 27KOHM, J, 1/16W      | 1   |              |
| R1383     | ERJ3GEYJ272  | M 2.7KOHM, J, 1/16W     | 1   |              |
| R1384     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1385     | TAJAAH0470JV | M 47 OHM, J, 1/16W      | 1   | D0GB470JA006 |
| R1387     | ERJ3GEYJ471  | M 470 OHM, J, 1/16W     | 1   |              |
| R1388     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1389     | ERJ3GEYJ332  | M 3.3KOHM, J, 1/16W     | 1   |              |
| R1390     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1391     | ERJ3GEYJ222  | M 2.2KOHM, J, 1/16W     | 1   |              |
| R1392     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1393     | ERJ3GEYJ222  | M 2.2KOHM, J, 1/16W     | 1   |              |
| R1394     | ERJ3GEYJ331  | M 330 OHM, J, 1/16W     | 1   |              |
| R1395     | ERJ6ENF6800  | M 680 OHM, 1/10W        | 1   |              |
| R1396     | ERJ6ENF3301  | M 3.3KOHM, 1/10W        | 1   |              |
| R1402     | ERJ3GEY0R00  | M 0 OHM, 1/16W          | 1   |              |
| R1403     | ERJ3GEYJ181  | M 180 OHM, J, 1/16W     | 1   |              |
| R1406     | TAJAAH0101JV | M 100 OHM, J, 1/16W     | 1   | D0GB101JA006 |
| R1407     | ERJ3GEYJ221  | M 220 OHM, J, 1/16W     | 1   |              |
| R1408     | ERJ3GEYJ152  | M 1.5KOHM, J, 1/16W     | 1   |              |
| R1409     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R1413     | ERJ3GEYJ103  | M 10KOHM, J, 1/16W      | 1   |              |
| R1415     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1417, 18 | ERJ6ENF56R0  | M 56 OHM, 1/10W         | 2   |              |
| R1419     | ERJ6ENF2000  | M 200 OHM, 1/10W        | 1   |              |
| R1425, 26 | ERJ6ENF9310  | M 931 OHM, 1/10W        | 2   |              |
| R1429     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1430     | ERJ6GEYJ821  | M 820 OHM, J, 1/10W     | 1   |              |
| R1431     | ERJ3GEYJ102  | M 1KOHM, J, 1/16W       | 1   |              |
| R1433     | ERJ6ENF47R0  | M 47 OHM, 1/10W         | 1   |              |
| R1434, 35 | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 2   |              |
| R1436     | ERJ6ENF47R0  | M 47 OHM, 1/10W         | 1   |              |
| R1437     | ERJ6ENF1500  | M 150 OHM, 1/10W        | 1   |              |
| R1440     | TAJAAH0101JV | M 100 OHM, J, 1/16W     | 1   | D0GB101JA006 |
| R1443     | ERJ6ENF47R0  | M 47 OHM, 1/10W         | 1   |              |
| R1447, 48 | ERJ6ENF1500  | M 150 OHM, 1/10W        | 2   |              |

| Ref. No.  | Part No.    | Part Name & Description | Pcs | Remarks      |
|-----------|-------------|-------------------------|-----|--------------|
| R1451     | ERJ6ENF5490 | M 549 OHM, 1/10W        | 1   |              |
| R1452     | ERJ6ENF4700 | M 470 OHM, 1/10W        | 1   |              |
| R1453     | ERJ3GEYJ180 | M 18 OHM, J, 1/16W      | 1   |              |
| R1454     | ERJ3GEYJ472 | M 4.7KOHM, J, 1/16W     | 1   |              |
| R1455     | ERJ3GEYJ391 | M 390 OHM, J, 1/16W     | 1   | D0GB391JA002 |
| R1457     | ERJ6GEYJ124 | M 120KOHM, J, 1/10W     | 1   |              |
| R1458     | ERJ6ENF6201 | M 6.2KOHM, 1/10W        | 1   |              |
| R1459     | ERJ6ENF4751 | M4.75KOHM, 1/10W        | 1   |              |
| R1460     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |              |
| R1465     | ERJ3GEYJ151 | M 150 OHM, J, 1/16W     | 1   |              |
| R1466     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |              |
| R1467     | ERJ3GEYJ331 | M 330 OHM, J, 1/16W     | 1   |              |
| R1468     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |              |
| R1471     | ERJ3GEYJ272 | M 2.7KOHM, J, 1/16W     | 1   |              |
| R1473     | ERJ6GEYJ683 | M 68KOHM, J, 1/10W      | 1   |              |
| R1474     | ERJ6GEYJ274 | M 270KOHM, J, 1/10W     | 1   |              |
| R1475     | ERJ3GEYJ561 | M 560 OHM, J, 1/16W     | 1   |              |
| R1476     | ERJ3GEYJ103 | M 10KOHM, J, 1/16W      | 1   |              |
| R1477     | ERJ3GEYJ823 | M 82KOHM, J, 1/16W      | 1   |              |
| R1478     | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     | 1   |              |
| R1480, 81 | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     | 2   |              |
| R1482     | ERJ6GEYJ472 | M 4.7KOHM, J, 1/10W     | 1   |              |
| R1483     | ERJ6GEYJ394 | M 390KOHM, J, 1/10W     | 1   |              |
| R1485     | ERJ3GEYJ102 | M 1KOHM, J, 1/16W       | 1   |              |
| R1492     | ERJ3GEYJ471 | M 470 OHM, J, 1/16W     | 1   |              |
| R1499     | ERJ6GEYJ472 | M 4.7KOHM, J, 1/10W     | 1   |              |
| R2004     | ERJ6GEYJ222 | M 2.2KOHM, J, 1/10W     | 1   |              |
| R2006-08  | ERJ6GEYJ222 | M 2.2KOHM, J, 1/10W     | 3   |              |
| R2015     | ERJ6GEYJ101 | M 100 OHM, J, 1/10W     | 1   |              |
| R2019     | ERJ6GEYJ471 | M 470 OHM, J, 1/10W     | 1   |              |
| R2025, 26 | ERJ6GEYJ472 | M 4.7KOHM, J, 1/10W     | 2   |              |
| R2030, 31 | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 2   |              |
| R2033-36  | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 4   |              |
| R2039, 40 | ERJ6GEYJ222 | M 2.2KOHM, J, 1/10W     | 2   |              |
| R2041     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |              |
| R2042     | ERJ6GEYJ102 | M 1KOHM, J, 1/10W       | 1   |              |
| R2043, 44 | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 2   |              |
| R2045     | ERJ6GEYJ122 | M 1.2KOHM, J, 1/10W     | 1   |              |
| R2051     | ERJ6GEYJ223 | M 22KOHM, J, 1/10W      | 1   |              |
| R2255     | ERJ6GEYJ102 | M 1KOHM, J, 1/10W       | 1   |              |
| R2256, 57 | ERJ6GEYJ104 | M 100KOHM, J, 1/10W     | 2   |              |
| R2258     | ERJ6GEYJ102 | M 1KOHM, J, 1/10W       | 1   |              |
| R2290     | ERDS2TJ562  | C 5.6KOHM, J, 1/4W      | 1   |              |
| R2291     | ERDS2TJ103  | C 10KOHM, J, 1/4W       | 1   |              |
| R2292, 93 | ERDS2TJ222  | C 2.2KOHM, J, 1/4W      | 2   |              |
| R2294, 95 | ERDS2TJ103  | C 10KOHM, J, 1/4W       | 2   |              |
| R2296     | ERDS2TJ562  | C 5.6KOHM, J, 1/4W      | 1   |              |
| R2297     | ERDS2TJ103  | C 10KOHM, J, 1/4W       | 1   |              |
| R2301     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |              |
| R2303, 04 | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 2   |              |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks      |
|-----------|--------------|-------------------------|-----|--------------|
| R2307, 08 | ERD25FJ2R2   | C 2.2 OHM, J, 1/4W      | 2   |              |
| R2309, 10 | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 2   |              |
| R2311     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2312     | ERJ6GEYJ104  | M 100KOHM, J, 1/10W     | 1   |              |
| R2315     | ERJ6GEYJ272  | M 2.7KOHM, J, 1/10W     | 1   |              |
| R2316     | ERJ6GEYJ152  | M 1.5KOHM, J, 1/10W     | 1   |              |
| R2317     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2318     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2319     | ERJ6GEYJ331  | M 330 OHM, J, 1/10W     | 1   |              |
| R2321, 22 | ERJ6GEYJ562  | M 5.6KOHM, J, 1/10W     | 2   |              |
| R2324-26  | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 3   |              |
| R2327     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2328     | ERJ6GEYJ152  | M 1.5KOHM, J, 1/10W     | 1   |              |
| R2330     | ERDS2TJ101   | C 100 OHM, J, 1/4W      | 1   |              |
| R2331     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |              |
| R2333     | ER0S2CKF4702 | M 47KOHM, F, 1/4W       | 1   | EROS2CKF4702 |
| R2335     | ERJ6ENF6802  | M 68KOHM, 1/10W         | 1   |              |
| R2336     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2337     | ERJ6ENF1202  | M 12KOHM, 1/10W         | 1   |              |
| R2338, 39 | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 2   |              |
| R2340-42  | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 3   |              |
| R2343     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2344     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2345     | ERDS2TJ101   | C 100 OHM, J, 1/4W      | 1   |              |
| R2346, 47 | ERJ6GEYJ223  | M 22KOHM, J, 1/10W      | 2   |              |
| R2348     | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |              |
| R2349     | ERJ6GEYJ223  | M 22KOHM, J, 1/10W      | 1   |              |
| R2350, 51 | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 2   |              |
| R2359     | ERDS2TJ103   | C 10KOHM, J, 1/4W       | 1   |              |
| R2362, 63 | ERDS2TJ103   | C 10KOHM, J, 1/4W       | 2   |              |
| R2367     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2370     | ERDS2TJ101   | C 100 OHM, J, 1/4W      | 1   |              |
| R2372     | ERJ6ENF6202  | M 62KOHM, 1/10W         | 1   |              |
| R2373     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2375     | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |              |
| R2379     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2380, 81 | ERDS2TJ222   | C 2.2KOHM, J, 1/4W      | 2   |              |
| R2382-84  | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 3   |              |
| R2391     | ERJ6GEYJ183  | M 18KOHM, J, 1/10W      | 1   |              |
| R2392     | ERDS2TJ103   | C 10KOHM, J, 1/4W       | 1   |              |
| R2397     | ERDS2TJ102   | C 1KOHM, J, 1/4W        | 1   |              |
| R2423     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |              |
| R2455     | ERJ6GEYJ562  | M 5.6KOHM, J, 1/10W     | 1   |              |
| R2483     | ERJ6GEYJ562  | M 5.6KOHM, J, 1/10W     | 1   |              |
| R2498     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2499     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2562     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2613     | ERJ6GEY0R00  | M 0 OHM, J, 1/10W       | 1   |              |
| R2724     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R2725     | ERJ6ENF1301  | M 1.3KOHM, 1/10W        | 1   |              |
| R2726     | ERJ6ENF4121  | M4.12KOHM, 1/10W        | 1   |              |
| R2727     | ERJ6ENF2151  | M2.15KOHM, 1/10W        | 1   |              |
| R2728     | ERJ6ENF1201  | M 1.2KOHM, 1/10W        | 1   |              |
| R2731     | ERJ6ENF2151  | M2.15KOHM, 1/10W        | 1   |              |
| R2732     | ERJ6ENF1201  | M 1.2KOHM, 1/10W        | 1   |              |
| R3012, 13 | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 2   |              |
| R3014     | ERJ8ENF75R0  | M 75 OHM, 1/8W          | 1   |              |
| R3015     | ERJ6GEYJ184  | M 180KOHM, J, 1/10W     | 1   |              |

| Ref. No.  | Part No.    | Part Name & Description | Pcs | Remarks |
|-----------|-------------|-------------------------|-----|---------|
| R3016     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |         |
| R3017-20  | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 4   |         |
| R3021     | ERJ6GEYJ184 | M 180KOHM, J, 1/10W     | 1   |         |
| R3022, 23 | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 2   |         |
| R3024     | ERJ8ENF75R0 | M 75 OHM, 1/8W          | 1   |         |
| R3025-27  | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 3   |         |
| R3028     | ERJ8ENF75R0 | M 75 OHM, 1/8W          | 1   |         |
| R3029, 30 | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 2   |         |
| R3031     | ERJ6GEYJ683 | M 68KOHM, J, 1/10W      | 1   |         |
| R3033, 34 | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 2   |         |
| R3037     | ERJ3GEYJ562 | M 5.6KOHM, J, 1/16W     | 1   |         |
| R3038     | ERJ3GEYJ222 | M 2.2KOHM, J, 1/16W     | 1   |         |
| R3044     | ERJ6GEYJ331 | M 330 OHM, J, 1/10W     | 1   |         |
| R3049     | ERJ6GEY0R00 | M 0 OHM, J, 1/10W       | 1   |         |
| R3050     | ERJ6ENF5600 | M 560 OHM, 1/10W        | 1   |         |
| R3051     | ERJ6GEYJ561 | M 560 OHM, J, 1/10W     | 1   |         |
| R3052, 53 | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 2   |         |
| R3054     | ERJ6GEYJ331 | M 330 OHM, J, 1/10W     | 1   |         |
| R3055-58  | ERJ6ENF75R0 | M 75 OHM, 1/10W         | 4   |         |
| R3059     | ERJ6GEYJ561 | M 560 OHM, J, 1/10W     | 1   |         |
| R3062     | ERJ6GEYJ331 | M 330 OHM, J, 1/10W     | 1   |         |
| R3065     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |         |
| R3067     | ERJ6GEYJ103 | M 10KOHM, J, 1/10W      | 1   |         |
| R3068     | ERJ6GEYJ102 | M 1KOHM, J, 1/10W       | 1   |         |
| R3071     | ERJ6GEYJ221 | M 220 OHM, J, 1/10W     | 1   |         |
| R3073     | ERJ6GEYJ331 | M 330 OHM, J, 1/10W     | 1   |         |
| R3074     | ERJ6GEYJ101 | M 100 OHM, J, 1/10W     | 1   |         |
| R3076     | ERJ6GEYJ102 | M 1KOHM, J, 1/10W       | 1   |         |
| R3077-79  | ERJ6GEYJ562 | M 5.6KOHM, J, 1/10W     | 3   |         |
| R3084-90  | ERJ6GEYJ562 | M 5.6KOHM, J, 1/10W     | 7   |         |
| R3091-96  | ERJ6ENF75R0 | M 75 OHM, 1/10W         | 6   |         |
| R3116     | ERDS2TJ103  | C 10KOHM, J, 1/4W       | 1   |         |
| R3122     | ERJ6GEYJ683 | M 68KOHM, J, 1/10W      | 1   |         |
| R3123     | ERJ6GEYJ223 | M 22KOHM, J, 1/10W      | 1   |         |
| R3124     | ERJ6GEYJ681 | M 680 OHM, J, 1/10W     | 1   |         |
| R3125     | ERJ6GEYJ101 | M 100 OHM, J, 1/10W     | 1   |         |
| R3126     | ERJ6GEYJ121 | M 120 OHM, J, 1/10W     | 1   |         |
| R3127     | ERJ6GEYJ390 | M 39 OHM, J, 1/10W      | 1   |         |
| R3128     | ERJ6GEYJ331 | M 330 OHM, J, 1/10W     | 1   |         |
| R3129, 30 | ERJ6GEYJ561 | M 560 OHM, J, 1/10W     | 2   |         |
| R3326     | ERJ6ENF6801 | M 6.8KOHM, 1/10W        | 1   |         |
| R3355     | ERDS2TJ392  | C 3.9KOHM, J, 1/4W      | 1   |         |
| R3356     | ERDS2TJ822  | C 8.2KOHM, J, 1/4W      | 1   |         |
| R3357     | ERDS2TJ392  | C 3.9KOHM, J, 1/4W      | 1   |         |
| R3365     | ERDS2TJ392  | C 3.9KOHM, J, 1/4W      | 1   |         |
| R3366     | ERDS2TJ822  | C 8.2KOHM, J, 1/4W      | 1   |         |
| R3367     | ERDS2TJ392  | C 3.9KOHM, J, 1/4W      | 1   |         |
| R3375     | ERDS2TJ392  | C 3.9KOHM, J, 1/4W      | 1   |         |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks      |
|-----------|--------------|-------------------------|-----|--------------|
| R3376     | ERDS2TJ822   | C 8.2KOHM, J, 1/4W      | 1   |              |
| R3377     | ERDS2TJ392   | C 3.9KOHM, J, 1/4W      | 1   |              |
| R3421     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |              |
| R3422     | ERJ6GEYJ473  | M 47KOHM, J, 1/10W      | 1   |              |
| R3455     | ERJ6GEYJ104  | M 100KOHM, J, 1/10W     | 1   |              |
| R3456     | ERJ6GEYJ331  | M 330 OHM, J, 1/10W     | 1   |              |
| R3457     | ERJ6GEYJ750  | M 75 OHM, J, 1/10W      | 1   |              |
| R3458     | ERJ8GEYJ331  | M 330 OHM, J, 1/8W      | 1   |              |
| R6704     | ERF2AK5R6    | W 5.6 OHM, K, 2W        | 1   |              |
| R7008     | ERJ6GEYJ273  | M 27KOHM, J, 1/10W      | 1   |              |
| R7009     | ERJ6GEYJ472  | M 4.7KOHM, J, 1/10W     | 1   |              |
| R7010     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7011     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7012     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7013     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7014     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7015     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7016     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7017     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7018     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7019     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7020     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |              |
| R7021     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |              |
| R7022     | ERJ6GEYJ273  | M 27KOHM, J, 1/10W      | 1   |              |
| R7023     | ERJ6GEYJ472  | M 4.7KOHM, J, 1/10W     | 1   |              |
| R7024-29  | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 6   |              |
| R7030     | ERG2FJS121D  | M 120 OHM, J, 2W        | 1   |              |
| R7031-33  | ERG2FJS820D  | M 82 OHM, J, 2W         | 3   |              |
| R7034     | ERG2FJS121D  | M 120 OHM, J, 2W        | 1   |              |
| R7035     | ERG2FJS820D  | M 82 OHM, J, 2W         | 1   |              |
| R7036-39  | EROS2CKF10R0 | M 10 OHM, F, 1/4W       | 4   |              |
| R7040-47  | EROS2CKF20R0 | M 20 OHM, F, 1/4W       | 8   | EROS2CKF20R0 |
| R7048-51  | EROS2CKF10R0 | M 10 OHM, F, 1/4W       | 4   |              |
| R7052-59  | EROS2CKF20R0 | M 20 OHM, F, 1/4W       | 8   | EROS2CKF20R0 |
| R7060-63  | EROS2CKF10R0 | M 10 OHM, F, 1/4W       | 4   |              |
| R7064-71  | EROS2CKF20R0 | M 20 OHM, F, 1/4W       | 8   | EROS2CKF20R0 |
| R7080     | ERX1SJR39    | M0.39 OHM, J, 1W        | 1   |              |
| R7085     | ERX1SJR39    | M0.39 OHM, J, 1W        | 1   |              |
| R7090-95  | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 6   |              |
| R7101-03  | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 3   |              |
| R7104, 05 | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 2   |              |
| R7106-08  | ERJ6ENF4702  | M 47KOHM, 1/10W         | 3   |              |
| R7109     | ERJ3GEYJ272  | M 2.7KOHM, J, 1/16W     | 1   |              |
| R7111     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |              |
| R7114-17  | ERJ6ENF4702  | M 47KOHM, 1/10W         | 4   |              |
| R7118-21  | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 4   |              |
| R7122     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |              |
| R7123     | ERJ6GEYJ472  | M 4.7KOHM, J, 1/10W     | 1   |              |
| R7124, 25 | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 2   |              |
| R7126     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |              |
| R7127     | ERJ6ENF6200  | M 620 OHM, 1/10W        | 1   |              |
| R7128     | ERJ6ENF3001  | M 3KOHM, 1/10W          | 1   |              |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks       |
|-----------|--------------|-------------------------|-----|---------------|
| R7129     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7130     | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |               |
| R7131     | ERJ6GEYJ151  | M 150 OHM, J, 1/10W     | 1   |               |
| R7134, 35 | ERJ6GEYJ151  | M 150 OHM, J, 1/10W     | 2   |               |
| R7141     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7142     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7143     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7144     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7145     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7146     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7147     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7148     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7149     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7150     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7151     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7152     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7153     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R7154     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7155     | ERJ3GEYJ103  | M 10KOHM, J, 1/16W      | 1   |               |
| R7157, 58 | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 2   |               |
| R7163, 64 | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 2   |               |
| R7165-69  | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 5   |               |
| R7170-72  | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 3   |               |
| R7185     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7186     | ERJ6GEYJ272  | M 2.7KOHM, J, 1/10W     | 1   |               |
| R7187     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7188     | ERJ6ENF82R0  | M 82 OHM, 1/10W         | 1   | 43 INCH MODEL |
| R7188     | ERJ6GEYJ181  | M 180 OHM, J, 1/10W     | 1   | 51 INCH MODEL |
| R7189     | ERJ6ENF2700  | M 270 OHM, 1/10W        | 1   | 43 INCH MODEL |
| R7189     | ERJ6GEYJ271  | M 270 OHM, J, 1/10W     | 1   | 51 INCH MODEL |
| R7190     | ERG1SJ820    | M 82 OHM, J, 1W         | 1   |               |
| R7191     | ERJ6ENF1202  | M 12KOHM, 1/10W         | 1   |               |
| R7194, 95 | ERJ6GEYJ472  | M 4.7KOHM, J, 1/10W     | 2   |               |
| R7196-98  | ERJ6GEYJ271  | M 270 OHM, J, 1/10W     | 3   |               |
| R7701-03  | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 3   |               |
| R7705     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7707     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7709     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7716     | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 1   |               |
| R7717-19  | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 3   |               |
| R7724-26  | ERJ6GEYJ152  | M 1.5KOHM, J, 1/10W     | 3   |               |
| R7727-29  | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 3   |               |
| R7733     | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 1   |               |
| R7734     | EROS2CKF2490 | M24.9 OHM, F, 1/4W      | 1   | EROS2CKF2490  |
| R7735     | EROS2CKF1500 | M 150 OHM, F, 1/4W      | 1   |               |
| R7736     | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 1   |               |
| R7737     | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 1   |               |
| R7738     | EROS2CKF2490 | M24.9 OHM, F, 1/4W      | 1   | EROS2CKF2490  |
| R7739     | EROS2CKF1500 | M 150 OHM, F, 1/4W      | 1   |               |
| R7740     | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 1   |               |
| R7741     | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 1   |               |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks       |
|-----------|--------------|-------------------------|-----|---------------|
| R7742     | EROS2CKF2490 | M24.9 OHM, F, 1/4W      | 1   | EROS2CKF2490  |
| R7743     | EROS2CKF1500 | M 150 OHM, F, 1/4W      | 1   |               |
| R7744     | ERJ6GEYJ330  | M 33 OHM, J, 1/10W      | 1   |               |
| R7745     | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |               |
| R7746-48  | ERJ6ENF1000  | M 100 OHM, 1/10W        | 3   |               |
| R7750-52  | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 3   |               |
| R7753     | ERJ6ENF3901  | M 3.9KOHM, 1/10W        | 1   |               |
| R7754     | ERJ6ENF4700  | M 470 OHM, 1/10W        | 1   |               |
| R7755     | ERJ6ENF2000  | M 200 OHM, 1/10W        | 1   |               |
| R7756     | ERJ6ENF1000  | M 100 OHM, 1/10W        | 1   |               |
| R7757     | ERJ6ENF1201  | M 1.2KOHM, 1/10W        | 1   |               |
| R7758-61  | ERJ6GEYJ103  | M 10KOHM, J, 1/10W      | 4   |               |
| R7762     | ERJ6GEYJ563  | M 56KOHM, J, 1/10W      | 1   |               |
| R7763     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |               |
| R7765     | ERJ6GEYJ682  | M 6.8KOHM, J, 1/10W     | 1   |               |
| R7766, 67 | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 2   |               |
| R7771     | ERJ6GEYJ223  | M 22KOHM, J, 1/10W      | 1   |               |
| R7772     | ERJ6GEYJ123  | M 12KOHM, J, 1/10W      | 1   |               |
| R7773     | ERJ6GEYJ223  | M 22KOHM, J, 1/10W      | 1   |               |
| R7776-78  | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 3   |               |
| R7779     | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 1   |               |
| R7780     | ERJ6GEYJ333  | M 33KOHM, J, 1/10W      | 1   |               |
| R7781     | ERJ6GEYJ472  | M 4.7KOHM, J, 1/10W     | 1   |               |
| R7782     | ERJ6ENF39R0  | M 39 OHM, 1/10W         | 1   | 43 INCH MODEL |
| R7782     | ERJ6ENF47R0  | M 47 OHM, 1/10W         | 1   | 51 INCH MODEL |
| R7788     | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |               |
| R7789     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7790     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |               |
| R7791     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7792     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |               |
| R7793     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R7794     | ERJ6GEYJ561  | M 560 OHM, J, 1/10W     | 1   |               |
| R7795-97  | EROS2CKF1500 | M 150 OHM, F, 1/4W      | 3   |               |
| R7801     | ERJ6ENF2700  | M 270 OHM, 1/10W        | 1   |               |
| R7802     | ERJ6ENF3300  | M 330 OHM, 1/10W        | 1   |               |
| R7803     | ERJ6ENF2200  | M 220 OHM, 1/10W        | 1   |               |
| R7804     | ERJ6ENF6800  | M 680 OHM, 1/10W        | 1   |               |
| R7805     | ERJ6ENF2700  | M 270 OHM, 1/10W        | 1   |               |
| R7806     | ERJ6ENF3300  | M 330 OHM, 1/10W        | 1   |               |
| R7807     | ERJ6ENF2200  | M 220 OHM, 1/10W        | 1   |               |
| R7808     | ERJ6ENF6800  | M 680 OHM, 1/10W        | 1   |               |
| R7809     | ERJ6ENF2700  | M 270 OHM, 1/10W        | 1   |               |
| R7810     | ERJ6ENF3300  | M 330 OHM, 1/10W        | 1   |               |
| R7811     | ERJ6ENF2200  | M 220 OHM, 1/10W        | 1   |               |
| R7812     | ERJ6ENF6800  | M 680 OHM, 1/10W        | 1   |               |
| R9301     | ERJ6GEYJ471  | M 470 OHM, J, 1/10W     | 1   |               |
| R9305     | ERJ6GEYOR00  | M 0 OHM, J, 1/10W       | 1   |               |
| R9318     | ERJ6GEYJ152  | M 1.5KOHM, J, 1/10W     | 1   |               |
| R9319     | ERJ6GEYJ151  | M 150 OHM, J, 1/10W     | 1   |               |
| R9320     | ERJ6GEYJ393  | M 39KOHM, J, 1/10W      | 1   |               |
| R9602     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |               |
| R9603     | ERJ6GEYJ222  | M 2.2KOHM, J, 1/10W     | 1   |               |
| R9604-06  | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 3   |               |
| R9607     | ERG2FJS222D  | M 2.2KOHM, J, 2W        | 1   |               |
| R9608     | ERJ6GEYJ332  | M 3.3KOHM, J, 1/10W     | 1   |               |
| R9609     | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |               |
| R9610     | ERJ6ENF1501  | M 1.5KOHM, 1/10W        | 1   |               |



| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks                      |
|----------|--------------|-------------------------|-----|------------------------------|
| R9611-15 | ERG2FJS333D  | M 33KOHM, J, 2W         | 5   |                              |
| R9616    | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |                              |
| R9617    | ERJ6ENF2801  | M 2.8KOHM, 1/10W        | 1   |                              |
| R9618    | ERJ6ENF2741  | M2.74KOHM, 1/10W        | 1   |                              |
| R9619    | ERDS2TJ101   | C 100 OHM, J, 1/4W      | 1   |                              |
| R9620    | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 1   |                              |
| R9621    | ERJ6GEYJ102  | M 1KOHM, J, 1/10W       | 1   |                              |
| R9622    | ERC12GK103   | S 10KOHM, K, 1/2W       | 1   |                              |
| R9623    | ERJ6GEYJ104  | M 100KOHM, J, 1/10W     | 1   |                              |
| R9624    | ERJ6ENF1500  | M 150 OHM, 1/10W        | 1   |                              |
| R9625    | ERJ6GEYJ101  | M 100 OHM, J, 1/10W     | 1   |                              |
| R9626    | ERJ6GEYJ221  | M 220 OHM, J, 1/10W     | 1   |                              |
| R9627    | ERJ6ENF2742  | M27.4KOHM, 1/16W        | 1   |                              |
| RL801    | K6B1ADA00010 | RELAY                   | 1   | △                            |
| RL802    | TSEH8011     | RELAY                   | 1   | K6B1AGA00043<br>△            |
| RL3401   | TSEH8017     | SWITCH                  | 1   | K6B2CFA00015                 |
| RMI001   | PNA4601M04TV | REMOTE CONTROL RECEIVER | 1   |                              |
| RTL      | TZTNP010GAV  | CIRCUIT BOARD A         | 1   | △ TX-51P250HM/HQ/HZ/X        |
| RTL      | TZTNP010GEV  | CIRCUIT BOARD A         | 1   | △ TC-51P250H                 |
| RTL      | TZTNP010GQV  | CIRCUIT BOARD A         | 1   | △ TC-43P250H                 |
| RTL      | TZTNP020GLV  | CIRCUIT BOARD A         | 1   | △ TX-43P250HM/HQ/HZ/X        |
| RTL      | TZTNP030GAV  | CIRCUIT BOARD D         | 1   | △ TC-51P250H, TX-51P250HM/HQ |
| RTL      | TZTNP010GCV  | CIRCUIT BOARD D         | 1   | △ TX-51P250HZ                |
| RTL      | TZTNP010GDV  | CIRCUIT BOARD D         | 1   | △ TX-51P250X                 |
| RTL      | TZTNP010GLV  | CIRCUIT BOARD D         | 1   | △ TC-43P250H, TX-43P250HM/HQ |
| RTL      | TZTNP010GNV  | CIRCUIT BOARD D         | 1   | △ TX-43P250HZ                |
| RTL      | TZTNP010GPV  | CIRCUIT BOARD D         | 1   | △ TX-43P250X                 |
| RTL      | TNPA1970AG   | CIRCUIT BOARD H         | 1   | △                            |
| RTL      | TNPA2316     | CIRCUIT BOARD P         | 1   | △ TC-51P250H, TX-51P250HM/HQ |
| RTL      | TNPA2316 AB  | CIRCUIT BOARD P         | 1   | △ TX-51P250HZ                |
| RTL      | TNPA2316 AC  | CIRCUIT BOARD P         | 1   | △ TX-51P250X                 |
| RTL      | TNPA2316 AE  | CIRCUIT BOARD P         | 1   | △ TC-43P250H, TX-43P250HM/HQ |
| RTL      | TNPA2316 AF  | CIRCUIT BOARD P         | 1   | △ TX-43P250HZ                |
| RTL      | TNPA2316AG   | CIRCUIT BOARD P         | 1   | △ TX-43P250X                 |
| RTL      | TZNP020GAV   | CIRCUIT BOARD U         | 1   | △ TX-51P250HM/HQ/HZ/X        |
| RTL      | TZNP020GEV   | CIRCUIT BOARD U         | 1   | △ TX-51P250H                 |
| RTL      | TNPA2042AV   | CIRCUIT BOARD U         | 1   | △ TC-43P250HZ                |
| RTL      | TNPA2042AU   | CIRCUIT BOARD U         | 1   | △ TX-43P250HM/HQ/HZ/X        |
| RTL      | TXNDG10GAV   | CIRCUIT BOARD DG        | 1   | △                            |
| RTL      | TNPA2332     | CIRCUIT BOARD LR        | 1   | △ 51 INCH MODEL              |
| RTL      | TNPA2332AC   | CIRCUIT BOARD LR        | 1   | △                            |
| RTL      | TNPA2333     | CIRCUIT BOARD LG        | 1   | △ 51 INCH MODEL              |
| RTL      | TNPA2333AC   | CIRCUIT BOARD LG        | 1   | △                            |
| RTL      | TNPA2334     | CIRCUIT BORD LB         | 1   | △ 51 INCH MODEL              |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks        |
|----------|--------------|-------------------------|-----|----------------|
| RTL      | TNPA2334AC   | CIRCUIT BORD LB         | 1   | △              |
| RTL      | TNPA2315     | CIRCUIT BOARD M         | 1   | △              |
| S840     | ESB92S11B    | SWITCH                  | 1   | △              |
| S1003-07 | EVQ23405R    | SWITCH                  | 5   | EVQ81F05R      |
| T501     | ETH19K135AY  | H DRIVE TRANS           | 1   |                |
| T551     | KFT7AA334F1  | FLYBACK TRANS           | 1   | △              |
| T801     | ETS42AE2X6AC | POWER TRANS             | 1   | △              |
| T881     | TLPA078      | REMOCON TRANS           | 1   | X VERSION △    |
| T882     | ETS19AB186AG | REMOCON TRANS           | 1   | EX X VERSION △ |
| TNR001   | ENG9103G     | TUNER                   | 1   | △              |
| TNR002   | ENG39607G    | TUNER                   | 1   | △              |
| U1,U2    | K1KB30A00092 | 30P CONNECTOR           | 2   |                |
| X1301,02 | TSSA171      | CRYSTAL                 | 2   |                |
| X2101    | TSSA128      | CRYSTAL                 | 1   | H0D184500008   |
| X3501    | H0J600400006 | CRYSTAL                 | 1   |                |
|          |              |                         |     |                |
|          |              |                         |     |                |
|          |              |                         |     |                |
|          |              |                         |     |                |