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# LCD TV

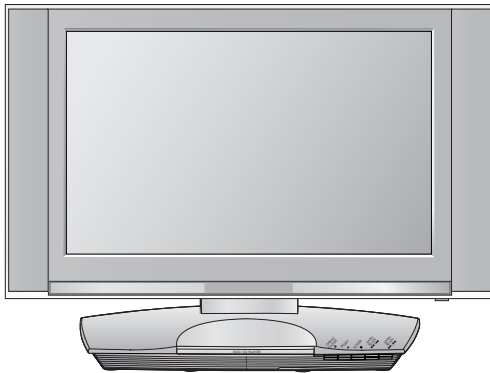
# SERVICE MANUAL

**CHASSIS : ML-041D**

**MODEL : 26LZ5RV-ZC / 26LZ5RV-TC**

## **CAUTION**

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  $\triangle$  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

### Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

**Do not use a line Isolation Transformer during this check.**

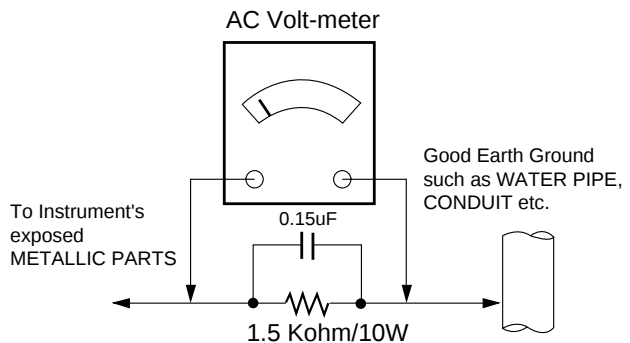
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



# SERVICING PRECAUTIONS

**CAUTION:** Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

**NOTE:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

## General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
  - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
  - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
  - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

**CAUTION:** This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use *with this receiver only the test fixtures specified in this service manual.*

**CAUTION:** Do not connect the test fixture ground strap to any heat sink in this receiver.

## Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.  
**CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

## General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
  - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
  - b. Heat the component lead until the solder melts.
  - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.  
**CAUTION:** Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
  - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
  - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
  - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.  
**CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

## IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

### Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

### Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.  
(It is not necessary to reapply acrylic coating to the areas).

## "Small-Signal" Discrete Transistor

### Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

## Power Output, Transistor Device

### Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

## Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

## Fuse and Conventional Resistor

### Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

**CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

## Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

### At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

### At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.  
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.  
Carefully crimp and solder the connections.  
**CAUTION:** Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

# SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

## 1. Application range

This specification is applied to ML-041D chassis.

## 2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: 25°C ± 5°C
- (2) Humidity: 65% ± 10%
- (3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 30min.
- (5) Adjusting standard for this chassis is followed a special standard.

## 3.General Specification(TV)

| No  | Item                            | Specification                                                                  | Remark                                                                 |
|-----|---------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1.  | Video input applicable system   | PAL-D/K, B/G, I, NTSC-M, SECAM<br>NTSC 4.43                                    |                                                                        |
| 2.  | Receiveable Broadcasting System | 1) PAL/SECAM BG<br>2) PAL/SECAM DK<br>3) PAL I/I<br>4) SECAM L/L'<br>5) NTSC M | (ZE/TE)<br>EU/Non-EU<br>(PAL Market)                                   |
|     |                                 | 6) PAL-N/M<br>7) NTSC M                                                        | 6),7) South America Market<br>7) Except South America NTSC Market (RM) |
| 3.  | RF Input Channel                | VHF : E2 ~ E12<br>UHF : E21 ~ E69<br>CATV : S1 ~ S20<br>HYPER : S21~ S41       | PAL                                                                    |
|     |                                 | L/L' : B, C, D                                                                 | FRANCE                                                                 |
|     |                                 | VHF : 2~13<br>UHF : 14~69<br>CATV : 1~125                                      | NTSC                                                                   |
|     |                                 | VHF Low : 1 ~ M10<br>VHF High : 4~S22<br>UHF : S23~62                          | JAPAN                                                                  |
| 4.  | Input Voltage                   | AC 100 ~ 240 V/50Hz, 60Hz                                                      |                                                                        |
| 5.  | Market                          | Worldwide                                                                      |                                                                        |
| 6.  | Picture Size                    | 660.40 mm                                                                      | 26.005 inch                                                            |
| 7.  | Tuning System                   | FVS 100 program                                                                | PAL, 200 PR.(Option)                                                   |
|     |                                 | FS                                                                             | NTSC                                                                   |
| 8.  | Operating Environment           | 1) Temp : 0 ~ 40 deg<br>2) Humidity : 85 %                                     |                                                                        |
|     |                                 | 3) Temp : -20 ~ 60 deg<br>4) Humidity : 85 %                                   |                                                                        |
| 9.  | Storage Environment             |                                                                                |                                                                        |
| 10. | Display                         | LCD Module                                                                     | LPL, AUO                                                               |

#### 4.General Specification

| NO | Item                                           | Specification                                                                                                        |                                                                   |                       | Unit | Remark                     |
|----|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------|------|----------------------------|
| 1  | Panel                                          | 26" TFT WXGA LCD                                                                                                     |                                                                   |                       |      |                            |
| 2  | Frequency range                                | H : 31 ~ 61Khz<br>V : 56 ~ 75Hz                                                                                      |                                                                   |                       |      | DVI-I input                |
| 3  | Control Function                               | 1) Contrast/Brightness<br>2) H-Position / V-Position<br>3) Tracking : Clock / Phase<br>4) Auto Configure<br>5) Reset |                                                                   |                       |      |                            |
| 4  | Comoponent Jack                                | 1 : Y<br>3 : Pb<br>5 : Pr<br>7 : Line1 Ready<br>9 : LINE2<br>11: LINE3<br>13: Line3 Ready                            |                                                                   |                       |      | Middle east<br>/ NTSC Area |
|    | D4 Jack<br>(525i,525p,750p,1125i)              | 2 : Y GND<br>4 : Pb GND<br>6 : Pr GND<br>8 : LINE1<br>10:Line2 Ready<br>12:SWITCH GND<br>14: SWITCH                  |                                                                   |                       |      | JAPAN Only                 |
| 5  | Power ON<br>Stand by<br>DPMS Mode<br>Power off | H/V-Sync                                                                                                             | Video                                                             | Power consumption     |      | LED                        |
|    |                                                | ON/ON                                                                                                                | Active                                                            | ≥ max 170W            | W    | Green                      |
|    |                                                | OFF/ON                                                                                                               | OFF                                                               | ≥ 3.0W                | W    | Red                        |
|    |                                                | ON/OFF                                                                                                               | OFF                                                               | ≥ typ. 35W            | W    | Green                      |
|    |                                                | -                                                                                                                    | -                                                                 | -                     | W    | *                          |
| 6  | LCD Module                                     | Type                                                                                                                 | LPL                                                               | 622 x 389 x 53        | mm   | (H) x (V) x (D)            |
|    |                                                | Size                                                                                                                 | AUO                                                               | 620.8 x 389 x 37      |      |                            |
|    |                                                | Pixel Pitch                                                                                                          | LPL                                                               | 0.1475 x 0.4425 x RGB | mm   |                            |
|    |                                                |                                                                                                                      | AUO                                                               | 0.1475 x 0.4425 x RGB |      |                            |
|    |                                                | Pixel Format                                                                                                         | 1280 horiz. By 768 vert. Pixels<br>RGB strip arrangement          |                       |      |                            |
|    |                                                | Coating                                                                                                              | Hard coating(3H), Anti-glare<br>treatment of the front polarizer, |                       |      |                            |
|    |                                                | Back Light                                                                                                           | LPL                                                               | CCFL                  |      |                            |
|    |                                                |                                                                                                                      | AUO                                                               | CCFL                  |      |                            |

## 5.Optical Feature(LCD Module)

| No | Item                      | Specification     |    |         |       |       |       | Remark                |
|----|---------------------------|-------------------|----|---------|-------|-------|-------|-----------------------|
|    |                           |                   |    | LPL     | AUO   |       |       |                       |
| 1  | Viewing Angle<br><CR ≥10> | R/L, U/D          |    | 176,176 | TBD   |       |       |                       |
| 2  | Luminance                 | Luminance (cd/m2) |    | 450     | 600   |       |       | Typical               |
|    |                           | Variation         |    | 1.3     |       |       |       | MAX / MIN             |
| 3  | Contrast Ratio            |                   |    | 500     | 600   |       |       | All white / All black |
| 4  | CIE Color Coordinates     | White             | WX | Typ.    | 0.284 | 0.285 | 0.289 | LPL                   |
|    |                           |                   | WY | Typ.    | 0.295 | 0.293 | 0.303 |                       |
|    |                           | RED               | Xr | Typ.    |       | TBD   |       |                       |
|    |                           |                   | Yr | Typ.    |       | TBD   |       |                       |
|    |                           | Green             | Xg | Typ.    |       | TBD   |       |                       |
|    |                           |                   | Yg | Typ.    |       | TBD   |       |                       |
|    |                           | Blue              | Xb | Typ.    |       | TBD   |       |                       |
|    |                           |                   | Yb | Typ.    |       | TBD   |       |                       |

## 6.Feature and Function

| No. | Item                   | Specification                         | Remark            |
|-----|------------------------|---------------------------------------|-------------------|
| 1   | Teletext               | TOP, FLOF                             | Top(option)       |
| 2   | REMOCON                | NEC code                              | PAL/NTSC          |
| 3   | AV input               | 1                                     | Rear(RT/RM)       |
| 4   | S-AV input             | 1                                     | Side              |
| 5   | Component input        | 2                                     | Side, Rear(RT/RM) |
| 6   | PERI TV connector      | Half SCART: 1                         | Rear(RZ)          |
| 7   | PERI TV connector      | Full SCART: 1                         | Rear(RZ)          |
| 8   | RGB input              | 1                                     | DVI               |
| 9   | RS-232                 | 1                                     | D-Sub 9 pin(RM)   |
| 10  | Discrete IR            | 1                                     | (RM)              |
| 11  | D-sub audio input      | 1                                     | Stereo            |
| 12  | 2 Carrier stereo       | BG,DK                                 |                   |
| 13  | NICAM stereo           | BG,I,LL'                              |                   |
| 14  | 2 Carrier dual         | BG,DK                                 |                   |
| 15  | NICAM dual             | BG,I,LL'                              |                   |
| 16  | DW(Double Window) mode | X                                     |                   |
| 17  | MW(Multi Window) mode  | X                                     |                   |
| 18  | Film mode              | O                                     |                   |
| 19  | Noise reduction        | X                                     |                   |
| 20  | Progressive scan       | O                                     |                   |
| 21  | Motion detection       | O                                     |                   |
| 22  | SRS WOW                | X                                     |                   |
| 23  | Swivel Speaker         | X                                     |                   |
| 24  | EZ-pip                 | X                                     |                   |
| 25  | Local Key              | Pr+/-, vol+/-, ok, menu, tv/av, power |                   |
| 26  | Local key(DVD)         | OPEN/CLOSE, PALY, STOP, SKIP/SCEN     |                   |

## 7. Component Video Input (Y, PB, PR)

| No | Specification |             |            |                    | Proposed |
|----|---------------|-------------|------------|--------------------|----------|
|    | Resolution    | H-freq(kHz) | V-freq(Hz) |                    |          |
| 1. | 640x480       | 15.73       | 60         | SDTV, DVD 480i     |          |
| 2. | 640x480       | 15.63       | 59.94      | SDTV, DVD 480i     |          |
| 3. | 720x576       | 15.625      | 50.00      | SDTV, DVD 625 Line |          |

## 8. PC INPUT Mode table

[Timing chart of Receivable Mode]

| No | Resolution                      | H-freq(kHz) | V-freq.(Hz) | Pixel clock(MHz) | Proposed                        |
|----|---------------------------------|-------------|-------------|------------------|---------------------------------|
|    | DVI-PC, Analog RGB, Digital RGB |             |             |                  |                                 |
| 1  | 640x480                         | 31.469      | 59.94       | 25.17            | VESA(VGA)                       |
| 2  | 640x480                         | 35          | 67          | 30.24            | VESA(VGA)                       |
| 3  | 640x480                         | 37.500      | 75.00       | 31.50            | VESA(VGA)                       |
| 4  | 800x600                         | 35.156      | 56.25       | 36.00            | VESA(SVGA)                      |
| 5  | 800x600                         | 37.879      | 60.31       | 40.00            | VESA(SVGA)                      |
| 6  | 800x600                         | 48.077      | 72.18       | 50.00            | VESA(SVGA)                      |
| 7  | 800x600                         | 46.875      | 75.00       | 49.50            | VESA(SVGA)                      |
| 8  | 1024x768                        | 48.363      | 60.00       | 65.00            | VESA(XGA)                       |
| 9  | 1024x768                        | 56.476      | 70.06       | 75.00            | VESA(XGA)                       |
| 10 | 1024x768                        | 60.023      | 75.02       | 78.75            | VESA(XGA)                       |
| 11 | 1280x768                        | 47.693      | 60.00       | 80.125           | VESA(WXGA)                      |
| 12 | 1280x720                        | 45.00       | 60.00       | 74.375           | HDCP DVI Digital 720p (MD only) |
| 13 | 1920x1080                       | 33.75       | 60.00       | 86.375           | HDCP DVI Digital 1080i(MD only) |

## 9. Customer Menu Setup

[shipped condition: PAL]

| No | Item               |                  |            | Condition                | Remark      |
|----|--------------------|------------------|------------|--------------------------|-------------|
| 1  | Power              |                  |            | Off                      |             |
| 2  | Volume Level       |                  |            | 30                       |             |
| 3  | Main Picture Input |                  |            | TV                       |             |
| 4  | Main Last Channel  |                  |            | Pr 01                    |             |
| 5  | Mute               |                  |            | Off                      |             |
| 6  | ARC                |                  |            | 16 : 9                   |             |
| 7  | Station            | Auto Program     |            |                          |             |
|    |                    | Manual Program   |            |                          |             |
|    |                    | Program Edit     |            |                          |             |
|    |                    | Favorite Program |            | None                     |             |
| 8  | Picture            | PSM              |            | Dynamic                  |             |
|    |                    | Dynamic          | Contrast   | 80                       |             |
|    |                    |                  | Brightness | 40                       |             |
|    |                    |                  | Colour     | 70                       |             |
|    |                    |                  | Sharpness  | 70                       |             |
|    |                    |                  | Tint       | 0                        | NTSC OPTION |
| 9  | Sound              | SSM              |            | Flat                     |             |
|    |                    | AVL              |            | Off                      |             |
|    |                    | Balance          |            | 0                        |             |
| 10 | Special            | Input            |            | TV                       |             |
|    |                    | Child Lock       |            | Off                      |             |
|    |                    | Auto sleep       |            | Off                      |             |
|    |                    | Language         |            | English(Area Management) |             |
| 11 | PC                 | H-Position       |            | Variable by each mode    |             |
|    |                    | V-Position       |            |                          |             |
|    |                    | Clock            |            |                          |             |
|    |                    | Phase            |            |                          |             |
|    |                    | Auto Configure   |            |                          |             |

# ADJUSTMENT INSTRUCTION

## 1. Application Object

This instruction is for the application to the LCD TV.

## 2. Designation

- 2.1 The adjustment is according to the order which is designated and which must be followed, according to the plan which can be changed only on agreeing.
- 2.2 Power Adjustment : Free Voltage
- 2.3 Magnetic Field Condition: Nil.
- 2.4 Input signal Unit : Product specification standard
- 2.5 Reserve after operation : Above 2 hours
- 2.6 Adjustment equipments : Pattern Generator(801GF, MSPG925F), DDC Adjustment Jig equipment HDCP Adjustment Jig equipment.

## 3. Adjustments

### 3.1 Adjustment Details

: The machine can be adjusted by itself automatically with factory automatic equipment, in case error occurs, set manual adjustment to standard.

### 3.2 Adjustment signal Composition of The Auto Adjustment equipment

#### 3.2.1 RS-232C Interchange

9600bps, Pin#2 : Rx, Pin#3 : Tx, 8bit, STOP bit=1, No Parity

#### 3.2.2 Adjust data save

\* Save the adjusted data to the EEPROM with default value

ai - 0 - 00

#### 3.2.3 Adjust OK

ak - 0 - 00

#### 3.2.4 Screen Adjustment Instruction Forms

CMD1 CMD2 SetID(0) Value

- a. CMD1,CMD2 : Instructions operated by Monitor
- b. SetID L 0h Set always 0 in Adjustment
- c. VALUE : Adjustment Value

### 3.3 PC signal Gain/Offset Adjustment

#### 3.3.1 Adjustment Preparation

- Execution of RF no signal during Heat Run over 30min
- Pattern generator signal is connected to the DVI-I Jack of LCD TV.

#### 3.3.1 Auto Gain/Offset Adjustment .

- To use Pattern Generator(MSPG-925FS), Apply Model 37, Patten 19 ( XGA(1024 X 768)60Hz, **Half balck and Half white** signal (Don't apply 16 gray signal)
- Press IN-START Key by using the Remote Controller(SVC) , after converting to Adjustment-Mode, press VOL+ Key consecutively in Auto-Gain Menu.
- After adjustment is complete, pressing enter key, stores and completes the process.

**\* Note) : PC Adjustment must be completed before auto adjustment.**

### 3.4 Video signal Gain/Offset Adjustment(Auto adjustment)

- Execution of White Pattern during Heat Run over 30min
- Connect to the LCD TV AV1 Scart input terminal with Patten Generator(MSPG-925FS)-**26LZ5V-ZC**
- Connect to the LCD TV AV Input terminal with Patten Generator (MSPG-925FS)-**26LZ5V-TC**
- Convert INPUT MODE to Video & Confirm whether PSM Mode is Standard
- Connect RS-232C Communication Cable to the Auto Adjustment Equipment and SET's upgrade Port

#### 3.4.1 Low Gray Adjustment

- Apply Gray-Level Gray-Level (Model : 202, pattern : 59) signal by using Pattern Generator(MSPG-925FS)
- Check weather color-coordinates (x : 0.283, y : 0.298,  $\pm 0.005$ ) is operated by using CA-110 equipment-**26LZ5V-ZC**
- Check weather color-coordinates (x : 0.270, y : 0.270,  $\pm 0.005$ ) is operated by using CA-110 equipment-**26LZ5V-TC**
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.283, y : 0.298,  $\pm 0.005$ )by adjusting Red Offset, Blue Offset - **26LZ5V-ZC**
- If color-coordinates is not in Spec, adjust color-coordinates(x : 0.270, y : 0.270,  $\pm 0.005$ )by adjusting Red Offset, Blue Offset - **26LZ5V-TC**

#### 3.4.2 White Balance Adjustment

- Apply Gray-Level Gray-Level (Model : 202, pattern : 59) signal by using Pattern Generator(MSPG-925FS)
- Check weather color-coordinates (x : 0.283, y : 0.298,  $\pm 0.005$ ) is operated by using CA-110 equipment - **26LZ5V-ZC**
- Check weather color-coordinates (x : 0.273, y : 0.285,  $\pm 0.005$ ) is operated by using CA-110 equipment - **26LZ5V-TC**
- If color-coordinates is not in Spec, adjust color-coordinates( x : 0.283, y : 0.298,  $\pm 0.005$ )by adjusting Red Offset, Blue Offset- **26LZ5V-ZC**
- If color-coordinates is not in Spec, adjust color-coordinates( x : 0.273, y : 0.285,  $\pm 0.005$ )by adjusting Red Offset, Blue Offset- **26LZ5V-TC**
- All adjustment takes color-coordinates with based on G, changing R and B. If it is not adjusted, adjust with fixed B, changing G and R.

- 3.5 Component signal Gain/Offset Adjustment(Auto adjustment)
- Execution of RF no signal during Heat Run over 30min
  - Connect to the LCD TV Component1 terminal with Patten Generator(MSPG-925FS)
  - Convert INPUT MODE to Component1.& Confirm whether PSM Mode is Standard
  - Connect RS-232C Communication Cable to the Auto Adjustment Equipment and SET's upgrade Port

#### 3.5.1 Low Gray Adjustment

- Apply Gray-Level (Model : 210, pattern : 59)signal by using Patten Generator(MSPG925FS)
- Check whether color-coordinates (x : 0.283, y : 0.298,  $\pm 0.005$ ) is operated by using CA-110 equipment- **26LZ5V-ZC**
- Check whether color-coordinates (x : 0.270, y : 0.270,  $\pm 0.005$ ) is operated by using CA-110 equipment- **26LZ5V-TC**
- If color-coordinates is not in Spec, adjust color-coordinates( x : 0.283, y : 0.298,  $\pm 0.005$ ) by adjusting Red Offset, Blue Offset- **26LZ5V-ZC**
- If color-coordinates is not in Spec, adjust color-coordinates( x : 0.270, y : 0.270,  $\pm 0.005$ ) by adjusting Red Offset, Blue Offset- **26LZ5V-TC**

#### 3.5.2 White Balance Adjustment

- Apply full White (Model : 210, pattern : 47) signal by using Patten Generator(MSPG925FS)
- Check whether color-coordinates (x : 0.283, y : 0.298,  $\pm 0.005$ ) is operated by using CA-110 equipment- **26LZ5V-ZC**
- Check whether color-coordinates (x : 0.273, y : 0.285,  $\pm 0.005$ ) is operated by using CA-110 equipment- **26LZ5V-TC**
- If color-coordinates is not in Spec, adjust color-coordinates (x : 0.283, y : 0.298,  $\pm 0.005$ )by adjusting Red Gain, Blue Gain- **26LZ5V-ZC**
- If color-coordinates is not in Spec, adjust color-coordinates (x : 0.273, y : 0.285,  $\pm 0.005$ )by adjusting Red Gain, Blue Gain- **26LZ5V-TC**
- All adjustment takes color-coordinates with based on R, changing G and B If it is not adjusted, adjust with fixed G, changing R and R.

#### 3.6 EDID (The Extended Display Identification Data)

- Connect D-Sub to DVI-I Cable to DVI-I Jack.
- Confirm the pc display by inputting the Analog signal.
- After displayed, input the Analog EDID data.
- Connect DVI D Cable to DVI Jack.
- Confirm the pc display by inputting the Digital signal.
- After displayed, input the Digital EDID data.

##### 3.6.1 EDID DATA

###### <DDC DATA Analog Set>

|    | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 00 | 00 | FF | FF | FF | FF | FF | FF | FF | 1E | 6D | FF | 55 | 01 | 01 | 01 | 01 |
| 10 | 0C | 0E | 01 | 03 | 18 | 38 | 21 | 78 | EE | E8 | AA | A1 | 57 | 49 | 9C | 25 |
| 20 | 10 | 48 | 4B | AB | 8C | 00 | 45 | 4F | 61 | 4F | 81 | CF | 81 | 80 | 01 | 01 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | 40 | 1F | 00 | 90 | 51 | 00 | 1B | 30 | 40 | 88 |
| 40 | 37 | 00 | 36 | 53 | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FD | 00 | 38 | 4B | 1F |
| 50 | 3D | 0A | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC | 00 | 32 |
| 60 | 36 | 4C | 5A | 35 | 52 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 0C |

###### < DDC DATA Digital Set>

|    | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 00 | 56 | 01 | 01 | 01 | 01 |
| 10 | 0C | 0E | 01 | 03 | 98 | 38 | 21 | 96 | EE | E8 | AA | A1 | 57 | 49 | 9C | 25 |
| 20 | 10 | 48 | 4B | BF | EE | 00 | 31 | 40 | 3B | CA | 45 | 40 | 61 | 40 | 81 | 80 |
| 30 | 61 | 40 | 81 | 80 | 01 | 01 | 4E | 1F | 00 | 90 | 51 | 00 | 1B | 30 | 40 | 88 |
| 40 | 37 | 00 | 36 | 53 | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FD | 00 | 38 | 4B | 1F |
| 50 | 3D | 0A | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC | 00 | 32 |
| 60 | 36 | 4C | 5A | 35 | 52 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | F0 |

#### 3.7 HDCP (High-Bandwidth Digital Contents Protection) Setting

3.7.1 When transmitting HD video source of HD STB through DVI(Digital Visual Interface), HDCP function is to execute Display & copy protection for securing contents security.

3.7.2 Confirm whether HDCP function is operated properly by connecting DVI Cable, after storing HDCP Key value on EEPROM(AT24C16)[address 0x4EE] (Refer to Working Order for Detailed work content ).

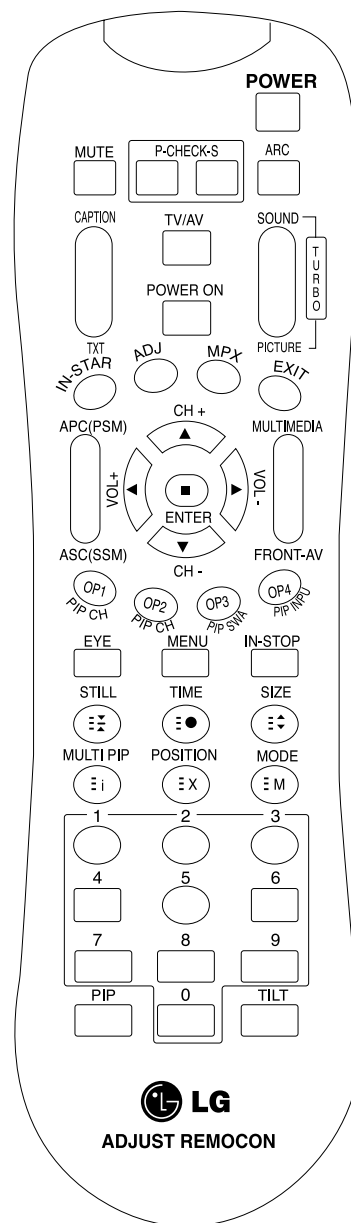
\* Reference : HDCP adjustment is not use. We are planning HDCP adjustment from NTSC.

**\* Option(PAL)**

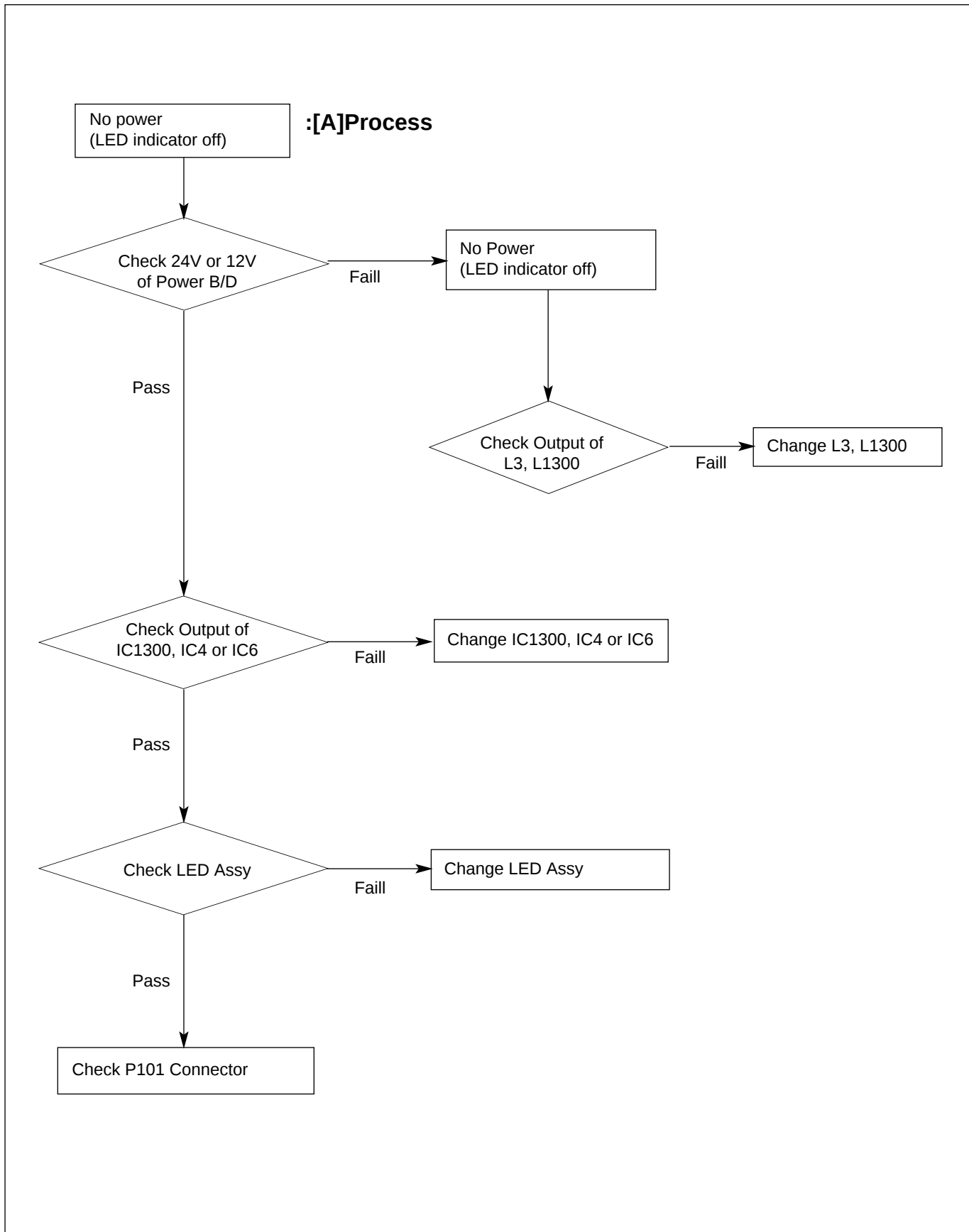
| No       | Item      | Condition | Remark                                                                                                                                                                                                                                                                                 |
|----------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option1  |           |           |                                                                                                                                                                                                                                                                                        |
| 1        | SideAV    | 1         | 0 : SideAV Off<br>1 : SideAV On                                                                                                                                                                                                                                                        |
| 2        | SCART     | 1         | 0 : SCART Off<br>1 : SCART On                                                                                                                                                                                                                                                          |
| 3        | PC        | 1         | 0 : PC Off<br>1 : PC On                                                                                                                                                                                                                                                                |
| 4        | SideComp  | 1         | 0 :SideComp Off<br>1 :SideComp ON                                                                                                                                                                                                                                                      |
| 5        | 16:9      | 1         | 0 : Wide OFF<br>1 : Wide On                                                                                                                                                                                                                                                            |
| 6        | 200PR     | 0         | 0 : 100 Program<br>1 : 200 Program                                                                                                                                                                                                                                                     |
| 7        | Text      | 1         | 0 : Text Off<br>1 : Text On                                                                                                                                                                                                                                                            |
| 8        | ACMS      | 1         | 0 : ACMS On<br>1 : ACMS Off                                                                                                                                                                                                                                                            |
| Option2  |           |           |                                                                                                                                                                                                                                                                                        |
| 1        | HiDev     | 0         | 0 : HiDev Off<br>1 : HiDev On                                                                                                                                                                                                                                                          |
| 2        | Hotel     | 0         | 0 : Hotel Off<br>1 : Hotel On                                                                                                                                                                                                                                                          |
| 3        | Top       | 1         | 0 : Top OFF<br>1 : Top ON                                                                                                                                                                                                                                                              |
| 4        | I II SAVE | 1         | 0 : Ch. Sound Non Memory<br>1 : Ch. Sound Memory                                                                                                                                                                                                                                       |
| 5        | Turbo Vol | 0         | 0 : except below area(Off)<br>1 : Middle-East Area Vol On                                                                                                                                                                                                                              |
| 6        | Ch/Aus    | 0         | 0 : except below area(Off)<br>1 : China, Australia On                                                                                                                                                                                                                                  |
| Option 3 |           |           |                                                                                                                                                                                                                                                                                        |
| 1        | Language  | 1         | 0 : Eng Only<br>1 : EU5<br>2 : 12 nations (Europe)<br>3 : Eng + Chinese<br>4 : Eng + Arab + Urdu<br>5 : Eng + FARSI                                                                                                                                                                    |
| 2        | Txt Lang  | 0         | 0 : WEST EU<br>1 : EAST EU1<br>2 : TURKY EU<br>3 : EAST EU2<br>4 : CYRILLIC1<br>5 : CYRILLIC2<br>6 : CYRILLIC3<br>7 : TURK GRE1<br>8 : TURK GRE2<br>9 : TURK GRE3<br>10 :ARAB FRAN<br>11 :ARAB ENG<br>12 :ARAB HEB1<br>13 :ARAB HEB2<br>14 :FARSI ENG<br>15 :FARSI FRA<br>16 :FARI ALL |
| 3        | Inch opt  | 0         | reserved                                                                                                                                                                                                                                                                               |
| 4        | DDCi      | Analog    | Analog : Analog<br>Digital : Digital                                                                                                                                                                                                                                                   |

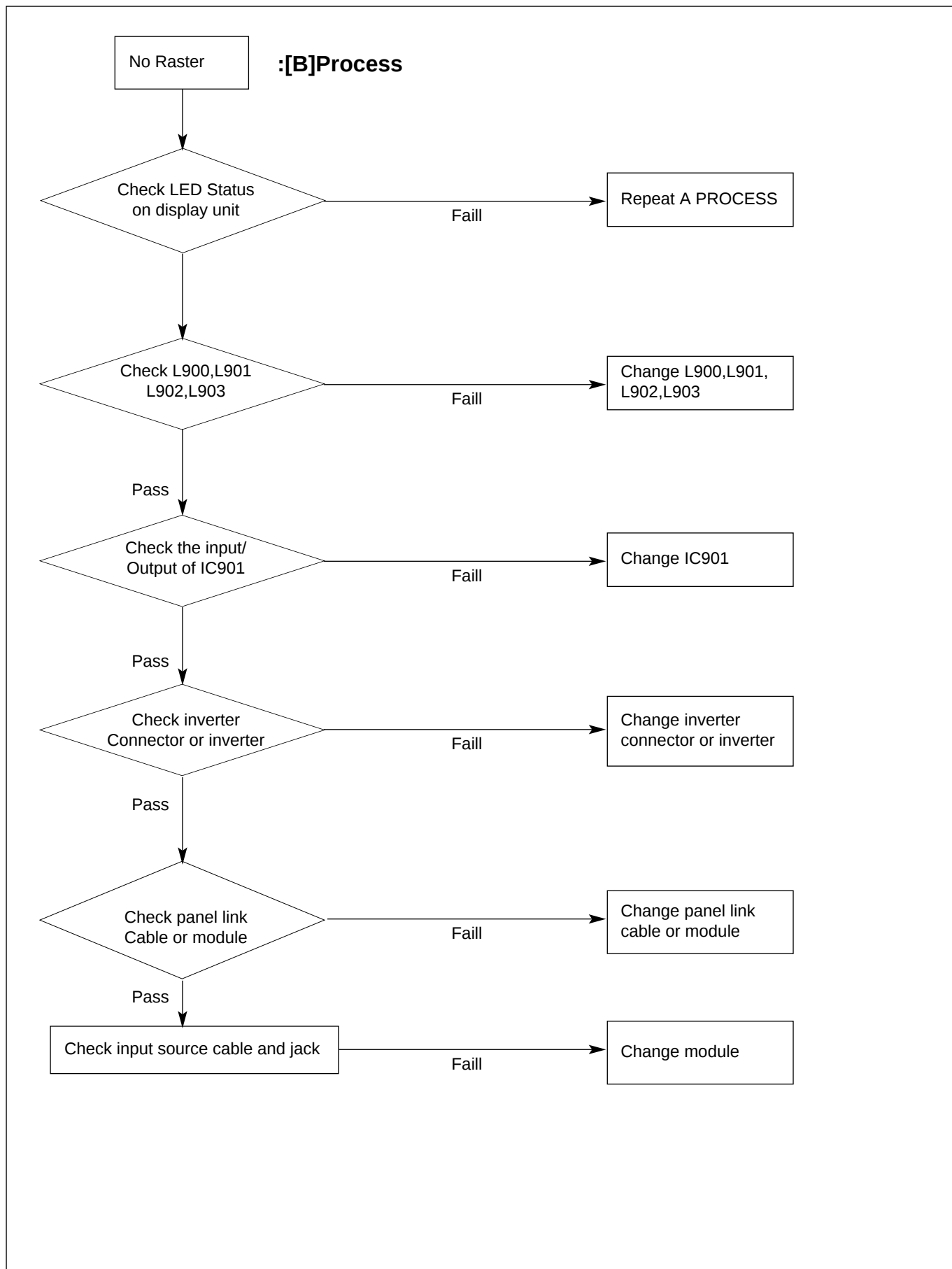
# SVC REMOCON

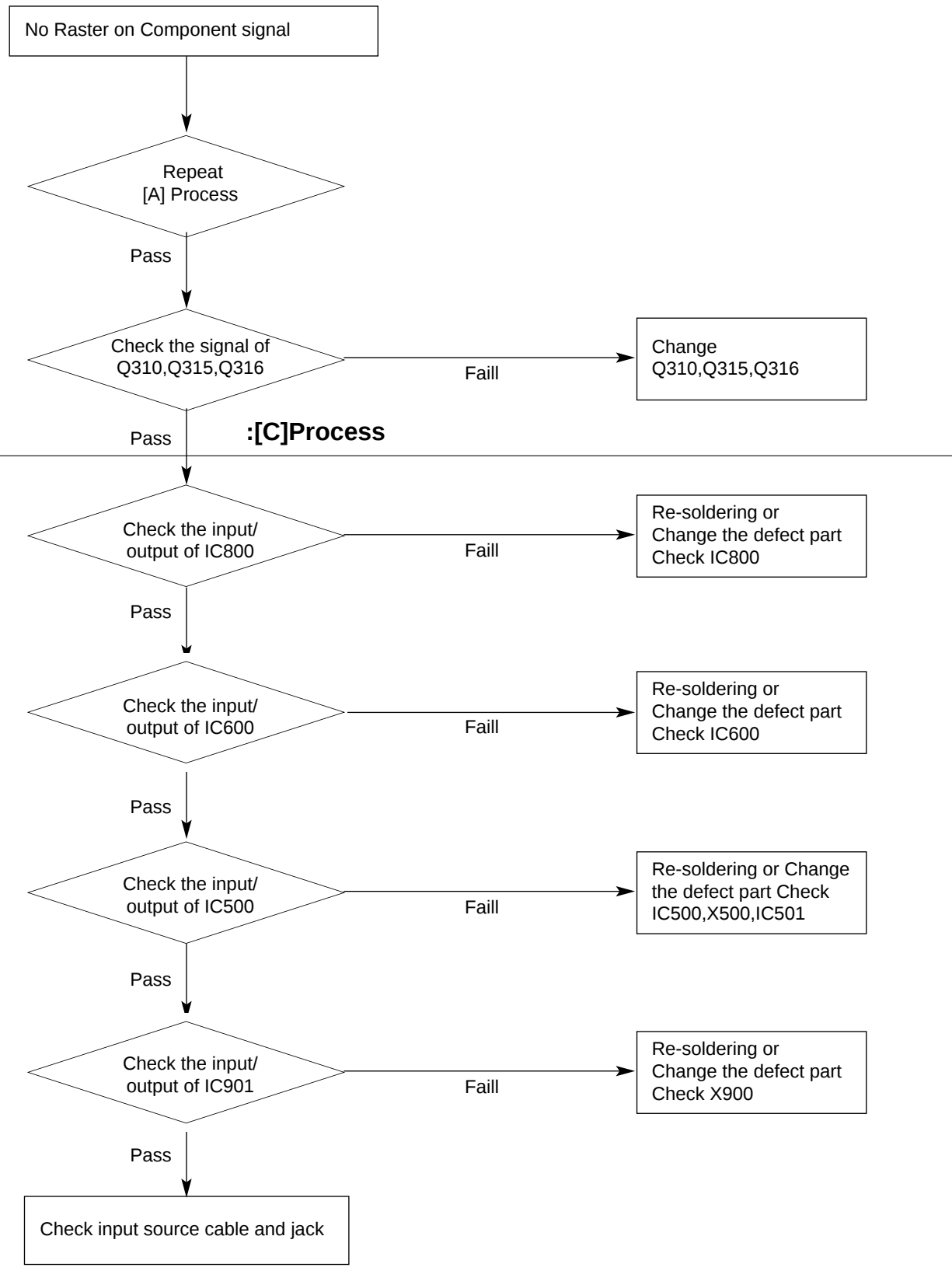
| NO | KEY            | FUNTION                                                                                                                                                             | REMARK                                                  |
|----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1  | POWER          | To turn the TV on or off                                                                                                                                            |                                                         |
| 2  | POWER ON       | To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.                     |                                                         |
| 3  | MUTE           | To activate the mute function.                                                                                                                                      |                                                         |
| 4  | P-CHECK        | To check TV screen image easily.                                                                                                                                    | Shortcut keys                                           |
| 5  | S-CHECK        | To check TV screen sound easily                                                                                                                                     | Shortcut keys                                           |
| 6  | ARC            | To select size of the main screen (Normal, Spectacle, Wide or Zoom)                                                                                                 | Shortcut keys                                           |
| 7  | CAPTION        | Switch to closed caption broadcasting                                                                                                                               |                                                         |
| 8  | TXT            | To toggle on/off the teletext mode                                                                                                                                  |                                                         |
| 9  | TV/AV          | To select an external input for the TV screen                                                                                                                       |                                                         |
| 10 | TURBO SOUND    | To start turbo sound                                                                                                                                                |                                                         |
| 11 | TURBO PICTURE  | To start turbo picture                                                                                                                                              |                                                         |
| 12 | IN-START       | To enter adjustment mode when manufacturing the TV sets.                                                                                                            | Use the AV key to enter the screen W/B adjustment mode. |
|    |                | To adjust the screen voltage (automatic):<br>In-start → mute → Adjust → AV(Enter into W/B adjustment mode)                                                          |                                                         |
|    |                | W/B adjustment (automatic):<br>After adjusting the screen → W/B adjustment → Exit two times (Adjustment completed)                                                  |                                                         |
|    |                |                                                                                                                                                                     |                                                         |
| 13 | ADJ            | To enter into the adjustment mode. To adjust horizontal line and sub-brightness.                                                                                    |                                                         |
| 14 | MPX            | To select the multiple sound mode (Mono, Stereo or Foreign language)                                                                                                |                                                         |
| 15 | EXIT           | To release the adjustment mode                                                                                                                                      |                                                         |
| 16 | APC(PSM)       | To easily adjust the screen according to surrounding brightness                                                                                                     |                                                         |
| 17 | ASC(SSM)       | To easily adjust sound according to the program type                                                                                                                |                                                         |
| 18 | MULTIMEDIA     | To check component input                                                                                                                                            | Shortcut keys                                           |
| 19 | FRONT-AV       | To check the front AV                                                                                                                                               | Shortcut keys                                           |
| 20 | CH ±           | To move channel up/down or to select a function displayed on the screen.                                                                                            |                                                         |
| 21 | VOL ±          | To adjust the volume or accurately control a specific function.                                                                                                     |                                                         |
| 22 | ENTER          | To set a specific function or complete setting.                                                                                                                     |                                                         |
| 23 | PIP CH-(OP1)   | To move the channel down in the PIP screen.<br>To use as a red key in the teletext mode                                                                             |                                                         |
| 24 | PIP CH+(OP2)   | To move the channel in the PIP screen<br>To use as a green key in the teletext mode                                                                                 |                                                         |
| 25 | PIP SWAP(OP3)  | To switch between the main and sub screens<br>To use as a yellow key in the teletext mode                                                                           |                                                         |
| 26 | PIP INPUT(OP4) | To select the input status in the PIP screen<br>To use as a blue key in the teletext mode                                                                           |                                                         |
| 27 | EYE            | To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.                               |                                                         |
| 28 | MENU           | To select the functions such as video, voice, function or channel.                                                                                                  |                                                         |
| 29 | IN-STOP        | To set the delivery condition status after manufacturing the TV set.                                                                                                |                                                         |
| 30 | STILL          | To halt the main screen in the normal mode, or the sub screen at the PIP screen.<br>Used as a hold key in the teletext mode (Page updating is stopped.)             |                                                         |
| 31 | TIME           | Displays the teletext time in the normal mode<br>Enables to select the sub code in the teletext mode                                                                |                                                         |
| 32 | SIZE           | Used as the size key in the PIP screen in the normal mode<br>Used as the size key in the teletext mode                                                              |                                                         |
| 33 | MULTI PIP      | Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)                                                                     |                                                         |
| 34 | POSITION       | To select the position of the PIP screen in the normal mode<br>Used as the update key in the teletext mode (Text will be displayed if the current page is updated.) |                                                         |
| 35 | MODE           | Used as Mode in the teletext mode                                                                                                                                   |                                                         |
| 36 | PIP            | To select the simultaneous screen                                                                                                                                   |                                                         |
| 37 | TILT           | To adjust screen tilt                                                                                                                                               | Shortcut keys                                           |
| 38 | 0~9            | To manually select the channel.                                                                                                                                     |                                                         |

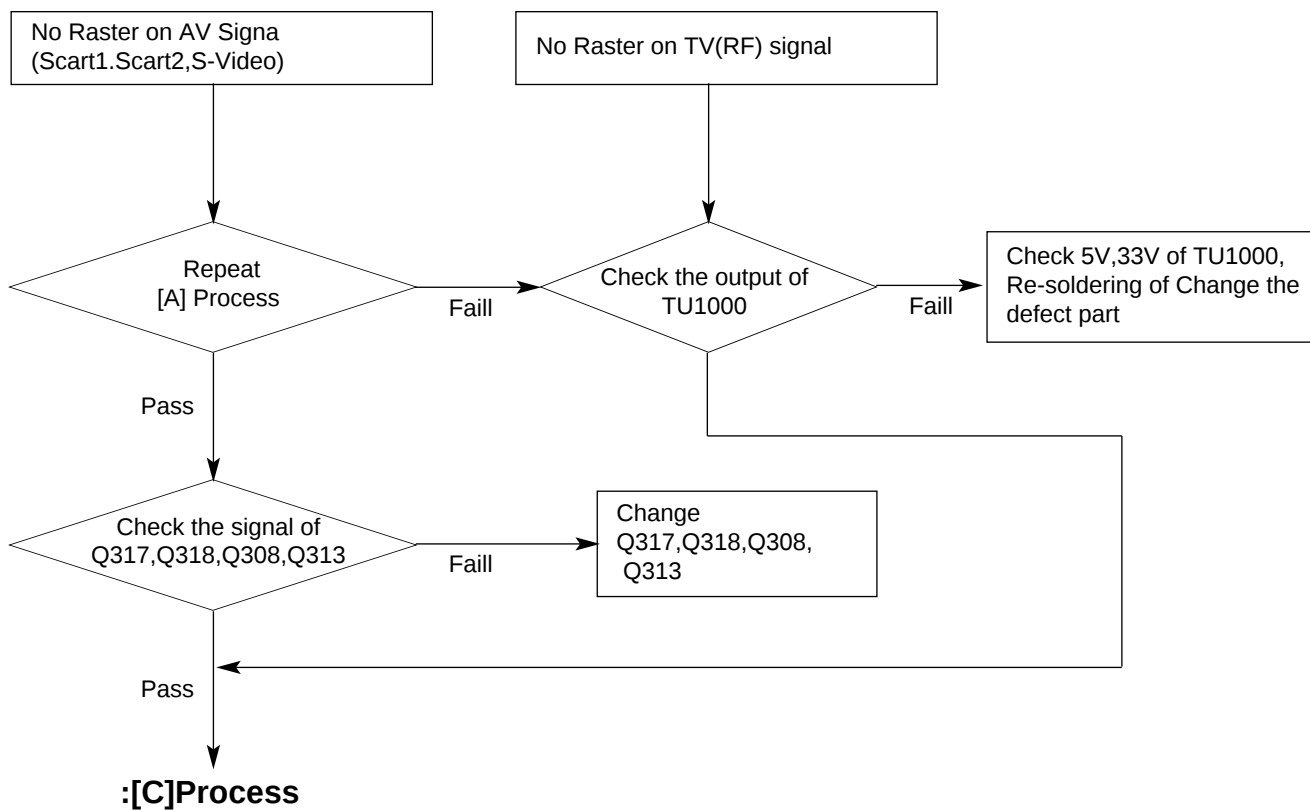


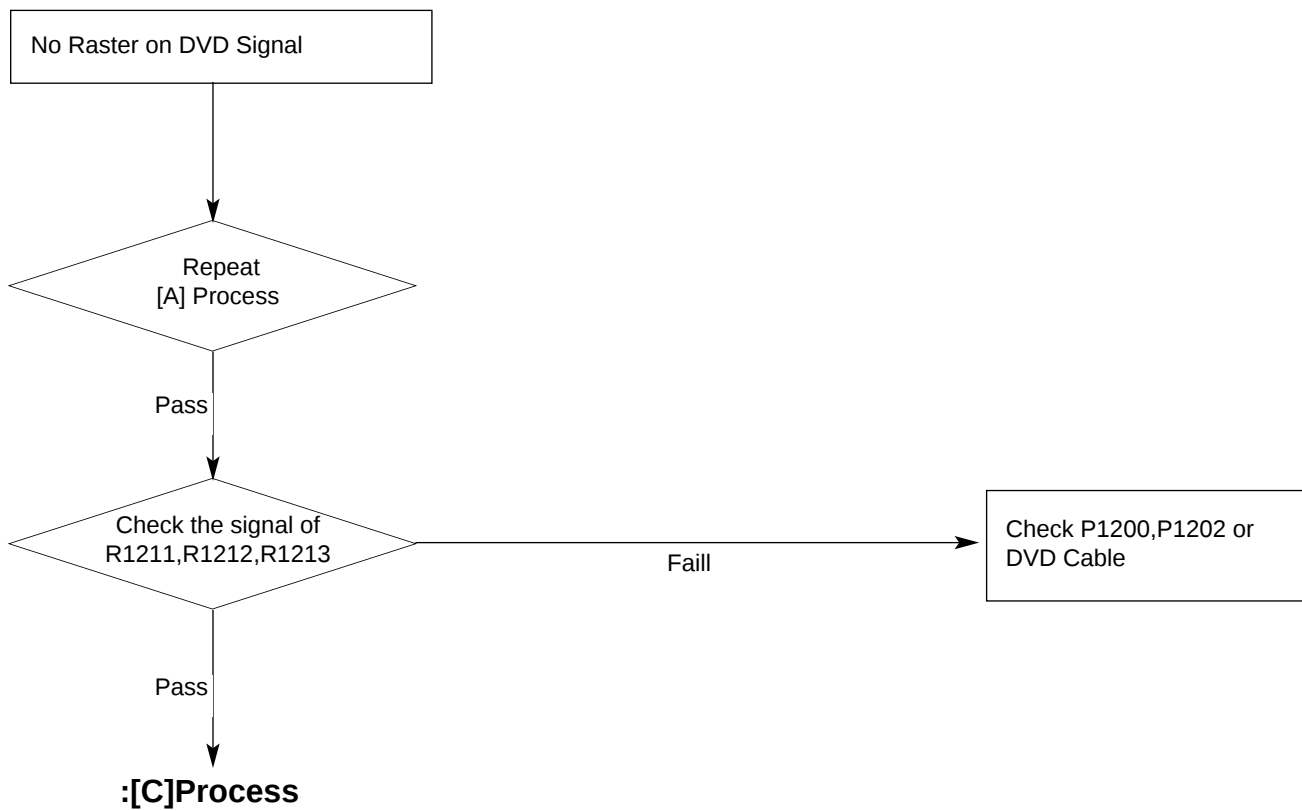
# TROUBLESHOOTING

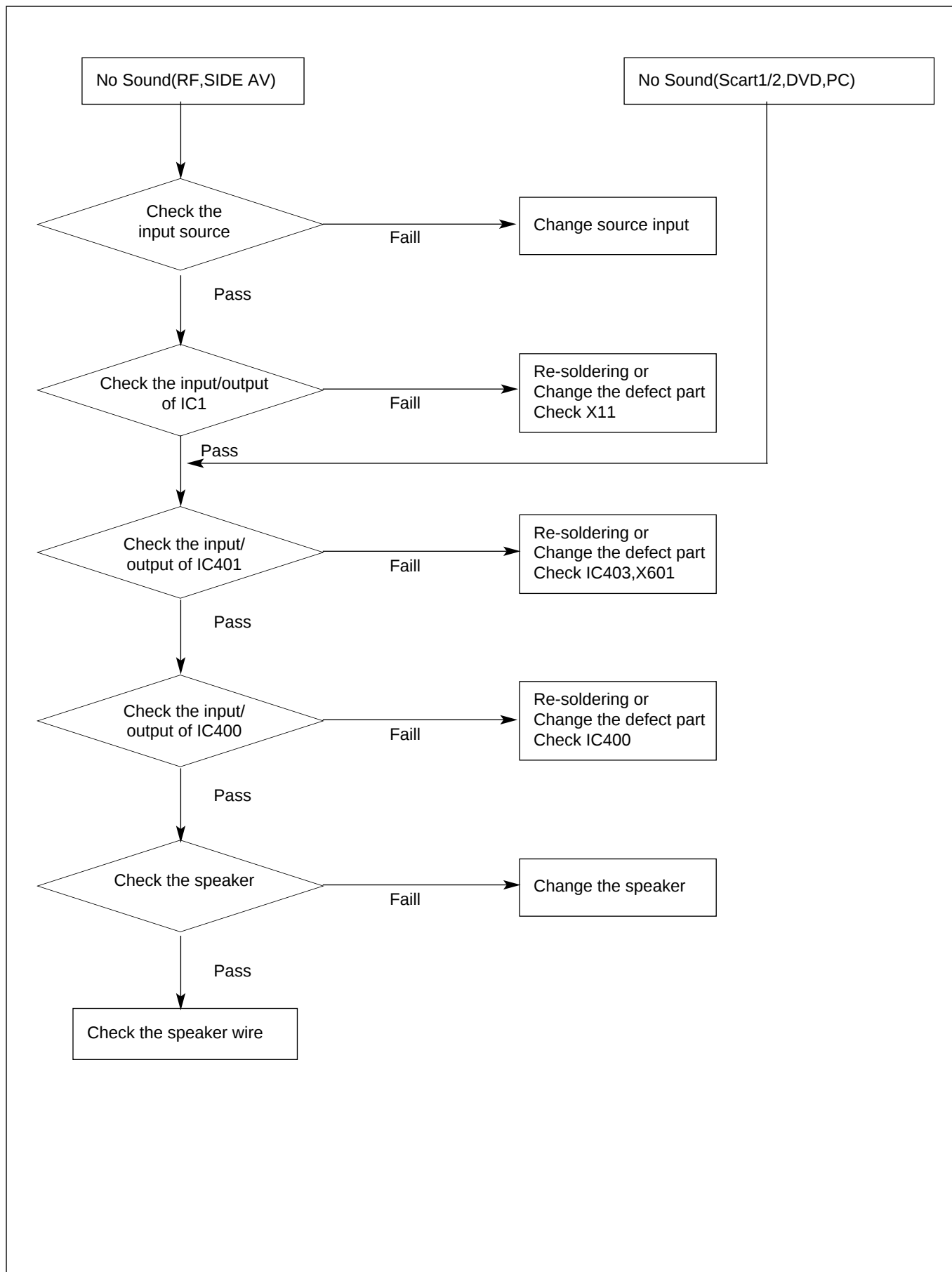




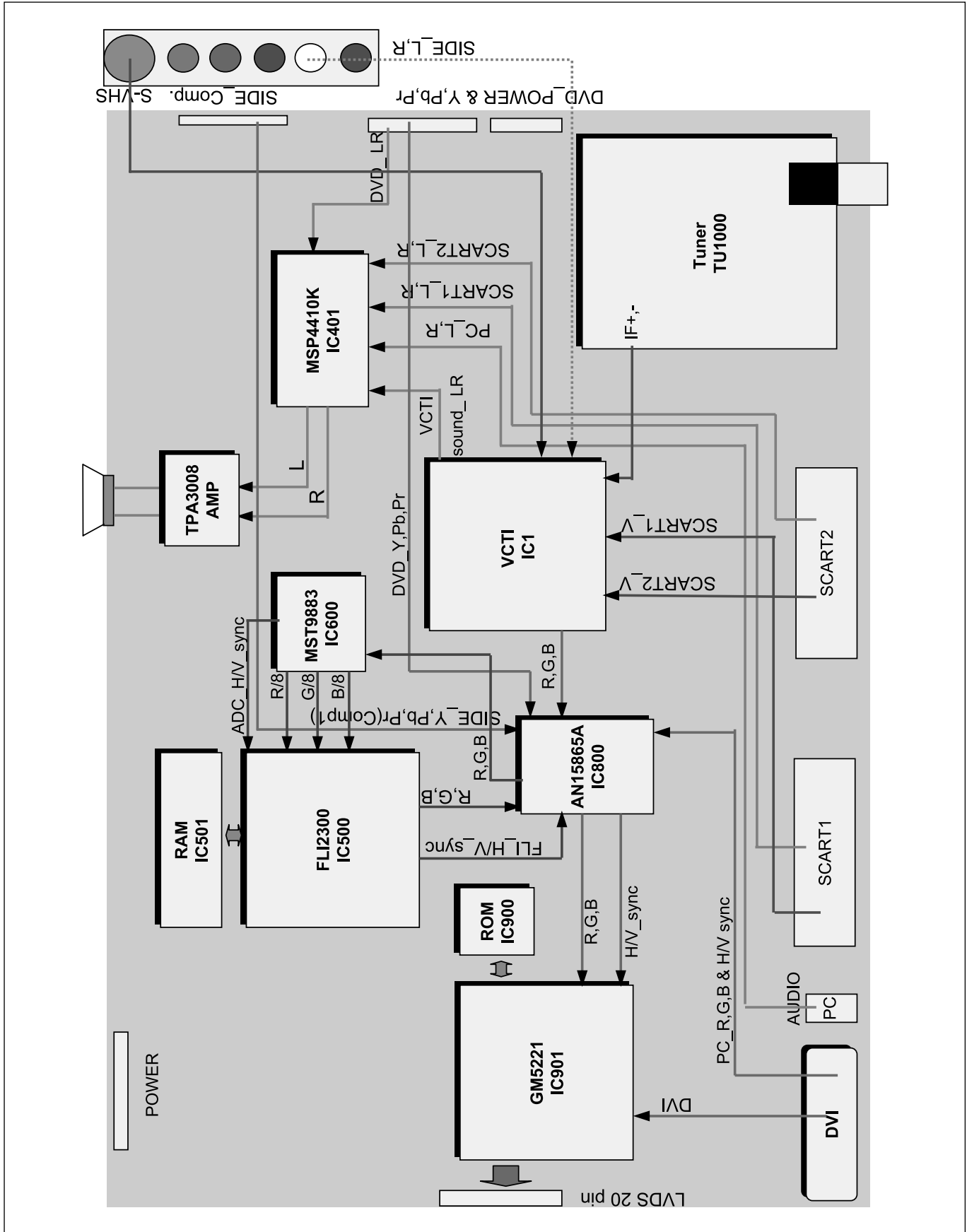




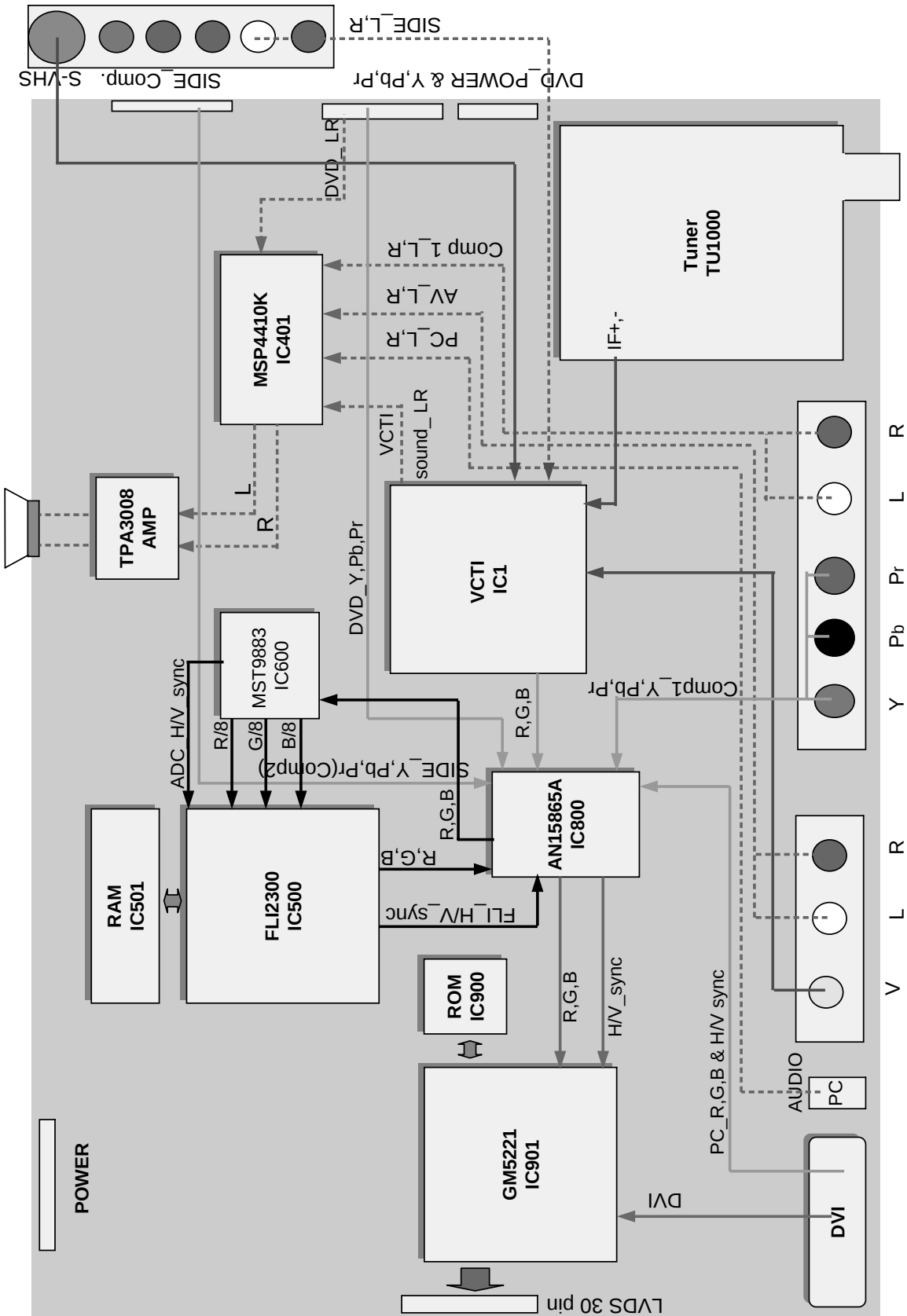




# BLOCK DIAGRAM(26LZ5RV-ZC)



## BLOCK DIAGRAM(26LZ5RV-TC)



# BLOCK DIAGRAM DESCRIPTION

## 1. Video Controller Unit & Display Data Conversion Unit

The video controller unit receives the video signals inputted through the tuner, AV port, and converts them into an ITU656 signal through the microcomputer (VCTI) combined with the video decoder that integrates various functions in one chip.

Either the analog RGB(FLI2300) signal or PC RGB signal is selected by the switching IC and inputted to a scaler (GM2221), which is sent to the LCD module after being modified to an RGB signal through the integrated LVDS Cable.

VCTi is the main microprocessor that handles video signal processing and sound signal processing.

It also manages the RF signals received from the tuner.

The scaler can control timing to fit into the LCD panel, and can also control the size and position of the input signal.

## 2. Power Supply Unit

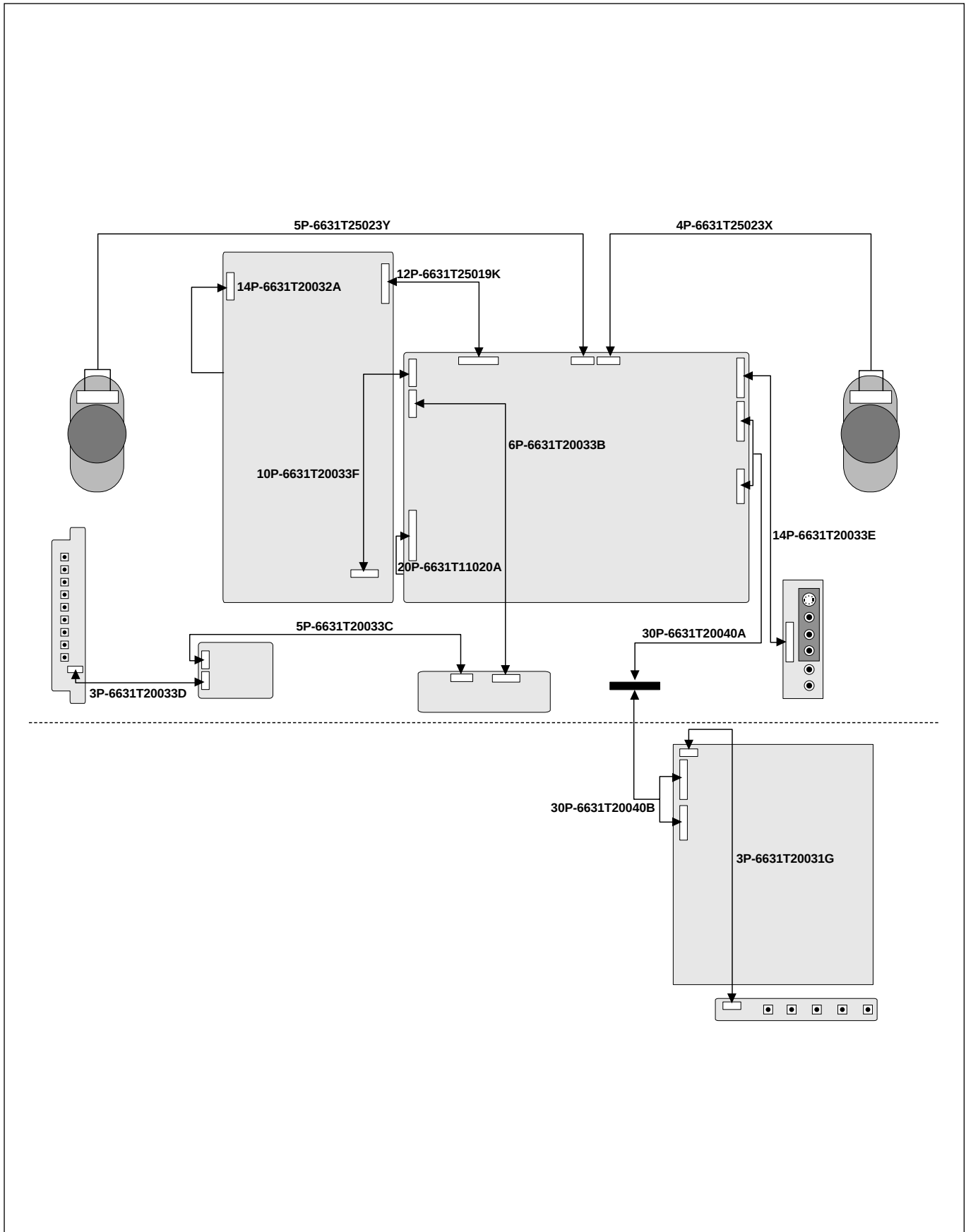
The power supply unit provides 24V, 12V and 5V DC power to the mainboard.

The PWM Step-Up DC/DC Converter circuit is used to generate the 33V used for the tuner.

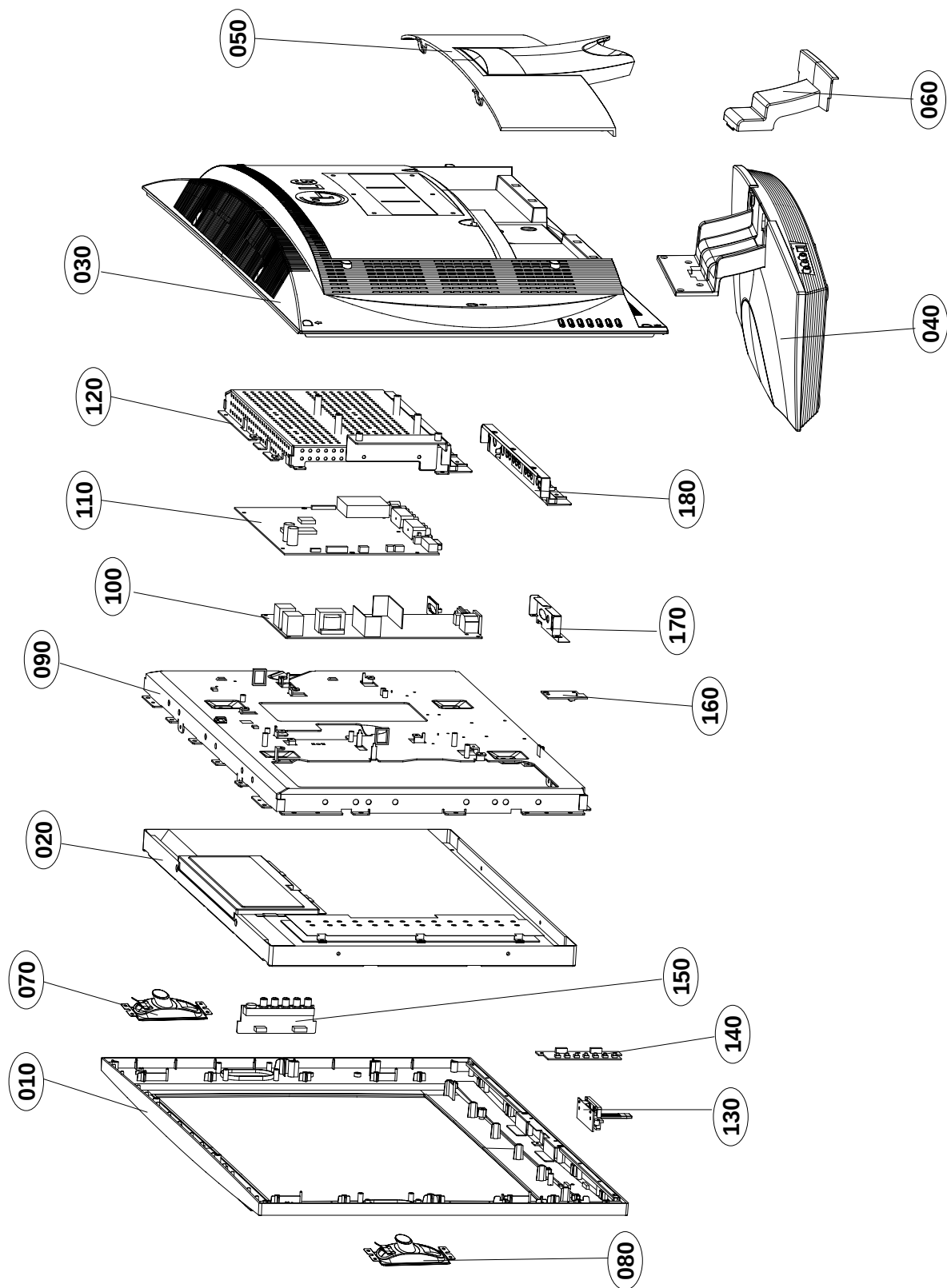
Supplied 24V power is descended by the 13.5V step-down DDC. 13.5V provides source to sound amplifier IC. 24V power is also used to generate 5V and 3.3V power through the Step-Down DC/DC Converter and supplied 12V.

5V power is converted to 3.3V and 1.8V power through the regulator, which in turn supplies electrical power for ICs such as VCTI and scaler.

# WIRING DIAGRAM



# EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

| No.     | PART NO.    | DESCRIPTION                                                                                                    |
|---------|-------------|----------------------------------------------------------------------------------------------------------------|
| 010     | 3091TKE013K | CABINET ASSEMBLY, RZ-26LZ50 BRAND 3090TKE006A 407AF LGEWA PHANTOM                                              |
|         | 3091TKE013B | CABINET ASSEMBLY, RZ-26LZ50 BRAND 3090TKE006A 407AF LGEWA C/SKD                                                |
|         | 3091TKE013A | CABINET ASSEMBLY, RZ-26LZ50 BRAND 3090TKE006A 407AF-tc                                                         |
| 020     | 6304FLP214A | LCD(LIQUID CRYSTAL DISPLAY), LC260W01-A5KA LG PHILPS TFT COLOR LEAD FREE                                       |
| 030     | 3809TKE013B | BACK COVER ASSEMBLY, RZ-26LZ50 3808TKE005A 407AF LGEWA C/SKD                                                   |
|         | 3809TKE013J | BACK COVER ASSEMBLY, RT-26LZ50 3808TKE005A 40AF ATL-tc                                                         |
| 040     | 3043TKK239A | TILT SWIVEL ASSEMBLY, 26LZ5RV 3043TKK239 DVDP STAND                                                            |
|         | 3043TKK239E | TILT SWIVEL ASSEMBLY, 26LZ5RV-RUSSIA 3043TKK239 DVDP STAND,KUMI                                                |
|         | 3043TKK239F | TILT SWIVEL ASSEMBLY, 26LZ5RV-AUST 3043TKK239 DVDP STAND-tc                                                    |
| 050     | 3550TKK821A | COVER, KZ-26LZ51 REAR DVDP                                                                                     |
| 060     | 3550TKK820A | COVER, KZ-26LZ51 CABLE DVDP, BASE REAR                                                                         |
| 070     | 6401TZZ063B | SPEAKER ASSEMBLY, KZ-26LZ51 L 5P                                                                               |
| 080     | 6401TZZ063A | SPEAKER ASSEMBLY, KZ-26LZ51 R 4P                                                                               |
| 070-080 | 6400GKTX01A | SPEAKER, FULLRANGE, F1527C-6428 L-TONG FULL-RANGE(GENERAL) 80HM 7/12W 83DB OTHERS 34.5X71 - <b>Only RUSSIA</b> |
| 090     | 4951TKS156K | METAL ASSEMBLY, FRAME RZ-26LZ5RV, LPL, CKD                                                                     |
|         | 4951TKS156J | METAL ASSEMBLY, FRAME RZ-26LZ5RV, LPL-tc                                                                       |
| 100     | 6871TPT275E | PWB(PCB) ASSEMBLY,POWER, RM-32LZ50 POWER TOTAL BRAND 26-32INCH PB FREE                                         |
| 110     | 3313TL2033A | MAIN TOTAL ASSEMBLY, KZ-26LZ51 BRAND ML-041D                                                                   |
|         | 3313TP2068A | MAIN TOTAL ASSEMBLY, 26LZ5RV-TC BRAND MAIN CHASSIS ASSY-tc                                                     |
| 120     | 4951TKK169J | METAL ASSEMBLY, REAR RZ-26LZ50 C/SKD                                                                           |
|         | 4951TKK169G | METAL ASSEMBLY, REAR RZ-26LZ50-tc                                                                              |
| 130     | 6871TST762C | PWB(PCB) ASSEMBLY,SUB, 26/27LZ50 LED & P/SW TOTAL BRAND -LF-                                                   |
| 140     | 6871TST589D | PWB(PCB) ASSEMBLY,SUB, RZ-26LZ50 CONTROL TOTAL BRAND -LF-                                                      |
| 150     | 6871TVT370C | PWB(PCB) ASSEMBLY,VIDEO, RM-32/26/23LZ50 SIDE A/V SUB TOTAL BRAND LF                                           |
| 160     | 6871TST588D | PWB(PCB) ASSEMBLY,SUB, RZ-26LZ50 IR SUB TOTAL BRAND -LF-                                                       |
| 170     | 4814TKK280B | SHIELD, REAR POWER C/SKD                                                                                       |
| 180     | 3551TKK516B | COVER ASSEMBLY, RZ-30LZ50 REAR NON AV C/SKD                                                                    |
|         | 3551TKK516A | COVER ASSEMBLY, RZ-30LZ50 REAR NON AV-tc                                                                       |

# REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic  
CQ : Polyester  
CE : Electrolytic  
CF : Fixed Film

RD : Carbon Film  
RS : Metal Oxide Film  
RN : Metal Film  
RH : CHIP, Metal Glazed(Chip)  
RR : Drawing

| DATE: 2005. 7. 15. |     |          |             |                               |
|--------------------|-----|----------|-------------|-------------------------------|
| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
| <b>CAPACITOR</b>   |     |          |             |                               |
|                    |     | C1102    | 0CE107EK638 | 100UF KMG 50V M FM5 TP 5      |
|                    |     | C407     | 0CH6152K406 | 1500PF 50V J SL 2012 R/TP     |
|                    |     | C410     | 0CH6152K406 | 1500PF 50V J SL 2012 R/TP     |
|                    |     | C1001    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1002    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1003    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1004    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1007    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1010    | 0CK273DK51A | 27000PF 2012 50V 10% B(Y5P)   |
|                    |     | C11      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C12      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1209    | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1210    | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1211    | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1212    | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1213    | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C1300    | 0CK105DK94A | "1UF 2012 50V 80%,-20% R/TP"  |
|                    |     | C1302    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C1305    | 0CK105DK94A | "1UF 2012 50V 80%,-20% R/TP"  |
|                    |     | C1307    | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C15      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C16      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C18      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP    |
|                    |     | C19      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C23      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C3       | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C4       | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C411     | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C412     | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C417     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C42      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C421     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C426     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C428     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C431     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C432     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C434     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C436     | 0CH3222K516 | 2200PF 2012 50V 10% B(Y5P)    |
|                    |     | C44      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C440     | 0CK105DK94A | "1UF 2012 50V 80%,-20% R/TP"  |
|                    |     | C441     | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C444     | 0CK105DK94A | "1UF 2012 50V 80%,-20% R/TP"  |
|                    |     | C447     | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C45      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C459     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C460     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C461     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C462     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C469     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C471     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C472     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C473     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C474     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C477     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C478     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
|                    |     | C480     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C481     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C49      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C490     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7   |
|                    |     | C491     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7   |
|                    |     | C494     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C500     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C505     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C506     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C507     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C508     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C509     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C510     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C511     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C512     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C513     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C514     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C517     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C518     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C519     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C521     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C522     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C523     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C526     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C527     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C528     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C529     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C530     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C531     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C532     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C533     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C534     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C535     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C536     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C537     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C538     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C539     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C540     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C541     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C544     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C545     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C546     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C547     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C550     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C551     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C553     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C554     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C555     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C556     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C557     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C558     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C559     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C6       | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C60      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION |
|                    |     | C606     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C608     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C609     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C61      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C614     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C616     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C619     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C620     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C621     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C622     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C623     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C624     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C625     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C627     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C628     | 0CH3822K516 | 8200PF 2012 50V 10% B(Y5P)  |
|                    |     | C629     | 0CH3823K516 | 82000PF 2012 50V 10% B(Y5P) |
|                    |     | C632     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C633     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C634     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C635     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C636     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C637     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C638     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C639     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C64      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C640     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C65      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C66      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C67      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C700     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C705     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C75      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C751     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C76      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C760     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C761     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C77      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C79      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C80      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C803     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C804     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C807     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C808     | 0CK273DK51A | 27000PF 2012 50V 10% B(Y5P) |
|                    |     | C81      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C82      | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C821     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C822     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C823     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C824     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C826     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C827     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C828     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C84      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP  |
|                    |     | C841     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C843     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C857     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C858     | 0CK474DH56A | 0.47UF 2012 25V 10% R/TP X7 |
|                    |     | C891     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C894     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C908     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C909     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |
|                    |     | C910     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
|                    |     | C911     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C912     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C913     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C914     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C915     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C916     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C917     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C918     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C919     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C920     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C921     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C922     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C923     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C926     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C927     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C928     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C929     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C930     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C931     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C935     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C936     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C938     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C939     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C940     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C941     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C942     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C943     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C944     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C945     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C946     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C947     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C948     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C949     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C950     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C951     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C952     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C958     | 0CK225DH94A | "2.2UF 2012 25V 80%,-20% F(Y" |
|                    |     | C960     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C963     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C969     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C970     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C973     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C983     | 0CH3104K566 | 0.1UF 50V 10% X7R 2012 R/TP   |
|                    |     | C984     | 0CH3103K516 | 10000PF 50V 10% B(Y5P) 2012   |
|                    |     | C10      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C1301    | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(   |
|                    |     | C1306    | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(   |
|                    |     | C25      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C26      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C27      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C29      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C31      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C35      | 0CK334CF94A | "0.33UF 1608 16V 80%,-20% F(" |
|                    |     | C37      | 0CK334CF94A | "0.33UF 1608 16V 80%,-20% F(" |
|                    |     | C40      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C405     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(   |
|                    |     | C406     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C408     | 0CK222CK51A | 2200PF 1608 50V 10% R/TP B(   |
|                    |     | C409     | 0CK222CK51A | 2200PF 1608 50V 10% R/TP B(   |
|                    |     | C41      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C413     | 0CK222CK51A | 2200PF 1608 50V 10% R/TP B(   |
|                    |     | C414     | 0CK222CK51A | 2200PF 1608 50V 10% R/TP B(   |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
|                    |     | C415     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C420     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C424     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C425     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C429     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C437     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C438     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C439     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C453     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(   |
|                    |     | C455     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C456     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C458     | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7   |
|                    |     | C463     | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7   |
|                    |     | C464     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C466     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C470     | 0CK105CF94A | "1UF 1608 16V 80%,-20% R/TP"  |
|                    |     | C476     | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7   |
|                    |     | C479     | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7   |
|                    |     | C483     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C484     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C485     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C486     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C487     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C5001    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C5004    | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C5005    | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C504     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C524     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C542     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C611     | 0CK473CK56A | 47000PF 1608 50V 10% R/TP X   |
|                    |     | C612     | 0CK473CK56A | 47000PF 1608 50V 10% R/TP X   |
|                    |     | C613     | 0CK473CK56A | 47000PF 1608 50V 10% R/TP X   |
|                    |     | C626     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C7       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C70      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C704     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C71      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP    |
|                    |     | C72      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP    |
|                    |     | C73      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP    |
|                    |     | C750     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C752     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C753     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C759     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C78      | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP    |
|                    |     | C8       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                    |     | C801     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C802     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C806     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(   |
|                    |     | C817     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C818     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C819     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C820     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C825     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C829     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C840     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C842     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C844     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C845     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C846     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C847     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C848     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |
|                    |     | C850     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/" |

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|                    |     | C851     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C853     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C856     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C859     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C860     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C861     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C862     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C863     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C892     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R            |
|                    |     | C893     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R            |
|                    |     | C9       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R            |
|                    |     | C901     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C902     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C903     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C904     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C905     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C906     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C907     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(            |
|                    |     | C96      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R            |
|                    |     | C981     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R            |
|                    |     | R851     | 0CK474CH94A | "0.47UF 1608 25V 80%,-20% R/"          |
|                    |     | C1017    | 0CC390DK41A | 39PF 2012 50V 5% NP0 R/TP              |
|                    |     | C1018    | 0CC390DK41A | 39PF 2012 50V 5% NP0 R/TP              |
|                    |     | C13      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C1303    | 0CH6101K416 | 100PF 50V 5% NP0 2012 R/TP             |
|                    |     | C1308    | 0CH6101K416 | 100PF 50V 5% NP0 2012 R/TP             |
|                    |     | C14      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C2       | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C20      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C103     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R-26LZ5RV-TC |
|                    |     | C200     | 0CH6221K416 | 220PF 2012 50V 5% NP0 -26LZ5RV-ZC      |
|                    |     | C201     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-TC |
|                    |     | C237     | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C238     | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C319     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C321     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C324     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C326     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C327     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C328     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -26LZ5RV-ZC       |
|                    |     | C329     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C331     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C333     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C336     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C338     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C339     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C340     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP-26LZ5RV-ZC   |
|                    |     | C341     | 0CH6150K416 | 15PF 2012 50V 5% NP0 R/TP              |
|                    |     | C352     | 0CC270DK41A | 27PF 2012 50V 5% NP0 R/TP-26LZ5RV-ZC   |
|                    |     | C354     | 0CH6471K416 | 470PF 2012 50V 5% NP0 R/TP             |
|                    |     | C355     | 0CH6471K416 | 470PF 2012 50V 5% NP0 R/TP             |
|                    |     | C43      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C451     | 0CH6020K116 | 2PF 2012 50V 0.5 PF C0G R/T            |
|                    |     | C452     | 0CH6020K116 | 2PF 2012 50V 0.5 PF C0G R/T            |
|                    |     | C46      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C50      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C515     | 0CH6330K416 | 33PF 50V 5% NP0 2012 R/TP              |
|                    |     | C516     | 0CH6330K416 | 33PF 50V 5% NP0 2012 R/TP              |
|                    |     | C53      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C59      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C701     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |
|                    |     | C702     | 0CH6120K416 | 12PF 2012 50V 5% NP0 -                 |

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|                    |     | C74      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C755     | 0CH6471K416 | 470PF 2012 50V 5% NP0 R/TP             |
|                    |     | C756     | 0CH6471K416 | 470PF 2012 50V 5% NP0 R/TP             |
|                    |     | C757     | 0CH6471K416 | 470PF 2012 50V 5% NP0 R/TP             |
|                    |     | C758     | 0CH6101K416 | 100PF 50V 5% NP0 2012 R/TP             |
|                    |     | C83      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C86      | 0CH6102K406 | 1000PF 50V 5% SL 2012 R/TP             |
|                    |     | C924     | 0CH6080K116 | 8PF 2012 50V 0.5 PF C0G R/T            |
|                    |     | C925     | 0CH6080K116 | 8PF 2012 50V 0.5 PF C0G R/T            |
|                    |     | C98      | OCC390DK41A | 39PF 2012 50V 5% NP0 R/TP              |
|                    |     | C99      | OCC390DK41A | 39PF 2012 50V 5% NP0 R/TP              |
|                    |     | C202     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C203     | OCC221CK41A | 220PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C203     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-TC  |
|                    |     | C204     | OCC471CK41A | 470PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C205     | OCC471CK41A | 470PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C207     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC |
|                    |     | C209     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C21      | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0            |
|                    |     | C210     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C211     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC |
|                    |     | C212     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-TC |
|                    |     | C213     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-TC |
|                    |     | C214     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0             |
|                    |     | C216     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-TC |
|                    |     | C217     | OCC471CK41A | 470PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C218     | OCC471CK41A | 470PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C22      | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0            |
|                    |     | C220     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC |
|                    |     | C222     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC |
|                    |     | C223     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C224     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0-26LZ5RV-ZC  |
|                    |     | C24      | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0            |
|                    |     | C343     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C345     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C348     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C350     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C351     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C353     | OCC270CK41A | 27PF 1608 50V 5% R/TP NP0              |
|                    |     | C465     | OCC221CK41A | 220PF 1608 50V 5% R/TP NP0             |
|                    |     | C47      | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C48      | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C501     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0             |
|                    |     | C600     | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C601     | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C602     | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C603     | OCC220CK41A | 22PF 1608 50V 5% R/TP NP0              |
|                    |     | C610     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0            |
|                    |     | C754     | OCC471CK41A | 470PF 1608 50V 5% R/TP NP0             |
|                    |     | C85      | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0            |
|                    |     | C1100    | OCE106BF618 | 10UF KME TYPE 16V 20% FL TP            |
|                    |     | C1112    | OCE108EF618 | 1000UF KMG 16V 20% FL TP 5             |
|                    |     | C1113    | OCE108EF618 | 1000UF KMG 16V 20% FL TP 5             |
|                    |     | C1114    | OCE108EF618 | 1000UF KMG 16V 20% FL TP 5             |
|                    |     | C1115    | OCE108EF618 | 1000UF KMG 16V 20% FL TP 5             |
|                    |     | C1201    | OCE477BF618 | 470UF KME TYPE 16V 20% FL T            |
|                    |     | C1204    | OCE477EJ618 | 470UF KMG 35V 20% FL TP 5              |
|                    |     | C1214    | OCE477EJ618 | 470UF KMG 35V 20% FL TP 5              |
|                    |     | C1304    | OCE477EJ618 | 470UF KMG 35V 20% FL TP 5              |
|                    |     | C890     | OCE337ZF638 | 330UF SEP 16V 20% FM5 TP 5             |
|                    |     | C100     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C1006    | 0CH8106J691 | 10UF 35V 20% 105STD (CYL) R            |

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|                    |     | C1008    | OCE227WF6DC | 220UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C107     | OCE107WH6DC | 100UF MVK 25V 20% R/TP(SMD)            |
|                    |     | C1215    | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C1216    | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C17      | 0CH8106J691 | 10UF 35V 20% 105STD (CYL) R            |
|                    |     | C206     | 0CH8226F691 | 22UF 16V 20% 105STD (CYL) R            |
|                    |     | C208     | 0CH8226F691 | 22UF 16V 20% 105STD (CYL) R            |
|                    |     | C219     | 0CH8226F691 | 22UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C221     | 0CH8226F691 | 22UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C235     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)-26LZ5RV-ZC |
|                    |     | C236     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)-26LZ5RV-ZC |
|                    |     | C300     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)-26LZ5RV-ZC |
|                    |     | C301     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)-26LZ5RV-ZC |
|                    |     | C302     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C303     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C304     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C307     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C309     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C312     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C314     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C315     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C316     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R-26LZ5RV-ZC |
|                    |     | C317     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C404     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C416     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C418     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C419     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C422     | OCE335WK6D8 | "3.3UF MVK,RC 50V 20% SMD TA"          |
|                    |     | C423     | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C442     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C445     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C454     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C457     | OCE476WK6DC | 47UF MVK 50V 20% R/TP(SMD)             |
|                    |     | C482     | OCE226WJ6DC | 22UF MVK 35V 20% R/TP(SMD)             |
|                    |     | C488     | OCE227WJ6DC | 220UF MVK/RC 35V 20% SMD TA            |
|                    |     | C493     | OCE476WK6DC | 47UF MVK 50V 20% R/TP(SMD)             |
|                    |     | C5       | OCE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD)            |
|                    |     | C5000    | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C502     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C503     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C52      | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C520     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C525     | 0CH8106F691 | 10UF 16V 20% 105STD (CYL) R            |
|                    |     | C54      | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C543     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C560     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C604     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C605     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C607     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C62      | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C63      | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C68      | OCE106VK6DC | 10UF MV 50V 20% R/TP(SMD) S            |
|                    |     | C703     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C805     | OCE475WK6DC | "4.7UF MVK,RC 50V 20% SMD TA"          |
|                    |     | C836     | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C837     | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C839     | OCE477WF6DC | 470UF MVK 16V 20% SMD R/TP(            |
|                    |     | C864     | OCE227WF6DC | 220UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C866     | OCE227WF6DC | 220UF MVK 16V 20% R/TP(SMD)            |
|                    |     | C87      | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C88      | 0CH8476H691 | 47UF 25V 20% 105STD (CYL) R            |
|                    |     | C888     | OCE227WJ6DC | 220UF MVK/RC 35V 20% SMD TA            |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                    |     | C889     | 0CE227VH6DC | 220UF MV 25V 20% R/TP(SMD)             |
|                    |     | C900     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C953     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C956     | 0CH8476H691 | 47UF 25V 20% 105STD (CYL) R            |
|                    |     | C957     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C959     | 0CH8476F691 | 47UF 16V 20% 105STD (CYL) R            |
|                    |     | C97      | 0CH8476H691 | 47UF 25V 20% 105STD (CYL) R            |
|                    |     | C972     | 0CH8476H691 | 47UF 25V 20% 105STD (CYL) R            |
|                    |     | C980     | 0CE227WJ6DC | 220UF MVK/RC 35V 20% SMD TA            |
|                    |     | C982     | 0CE476WK6DC | 47UF MVK 50V 20% R/TP(SMD)             |
| <b>DIODES</b>      |     |          |             |                                        |
|                    |     | ZD1300   | 0DR340009AA | MBRS340 TP FAIRCHILD NON 40            |
|                    |     | ZD1301   | 0DR340009AA | MBRS340 TP FAIRCHILD NON 40            |
|                    |     | ZD1302   | 0DR340009AA | MBRS340 TP FAIRCHILD NON 40            |
|                    |     | IC751    | 0DRSE00018B | "SRV05-4.TCT, SEMTECH R/TP S"          |
|                    |     | IC754    | 0DRSE00018B | "SRV05-4.TCT, SEMTECH R/TP S"          |
|                    |     | D107     | 0DS226009AA | KDS226 TP KEC - 80V - - 4NS            |
|                    |     | D400     | 0DS181009AA | KDS181 TP KEC SOT-23 80V               |
|                    |     | D711     | 0DD184009AA | KDS184 TP KEC - 85V - - 3              |
|                    |     | D703     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D704     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD215    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD216    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD217    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD218    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD219    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD220    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD222    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D700     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D701     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D702     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D705     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | D706     | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD203    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD204    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD205    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD206    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD207    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD208    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD209    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD210    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD211    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD212    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD213    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD214    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323-26LZ5RV-ZC |
|                    |     | ZD221    | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD5001   | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD5002   | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD5003   | 0DZ510009EE | UDZ S 5.1B TP ROHM-K SOD323            |
|                    |     | ZD1000   | 0DZ330009DF | MTZJ33B TP ROHM-K DO34 0.5W            |
|                    |     | ZD10     | 0DZ910009FE | UDZS 9.1B TP ROHM - - 9.1V             |
| <b>IC</b>          |     |          |             |                                        |
|                    |     | IC501    | 0IMMREB010A | "M12L64322A-6T ESMT 86P,TSOP"          |
|                    |     | IC749    | 0IMMRSG036A | "M24C02-WMN6T(P),LF SGS-THOM"          |
|                    |     | IC753    | 0IMMRSG036A | "M24C02-WMN6T(P),LF SGS-THOM"          |
|                    |     | IC907    | 0IMCRAL006A | "AT24C16AN-10SU-2.7,LF ATME"           |
|                    |     | IC918    | 0IMCRAL006A | "AT24C16AN-10SU-2.7,LF ATME"           |
|                    |     | IC1201   | 0IMCRNS007E | LMS1587CS-3.3 NATIONAL SEMI            |

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| *S                                    | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                                       |     | IC401    | 0IMCRMN028B | MSP4410K MICRONAS 80P/PQFP             |
|                                       |     | IC500    | 0IMCRGN002D | "FLI2300BD-LF,PB FREE GENES"           |
|                                       |     | IC750    | 0IMCRSG010A | ST3232CDR SGS-THOMSON SOP16            |
|                                       |     | IC808    | 0IMCRNS007C | LMS1587CS-ADJ NATIONAL SEMI            |
|                                       |     | IC1      | 0IPRPMN003C | VCT49XYF C7(NTSC+PAL) MICRO            |
|                                       |     | IC2001   | 0IPRPJR017A | "NJU26901E2 JRC 8P,EMP R/TP"           |
|                                       |     | IC400    | 0IPRP00522A | "TPA3008D2PHPRG4,LF TEXAS IN"          |
|                                       |     | IC600    | 0IPRPM3002D | "MST9883C-LF-110 MSTAR 80P,L"          |
|                                       |     | IC800    | 0IPRPM013A  | "AN15865AAVT,PB FREE MATSUSH"          |
|                                       |     | IC901    | 0IPRPGN014C | "GM5221H-BC-LF,PB FREE GENES"          |
|                                       |     | IC1300   | 0IPMG00063A | MP1593DN-LF-Z MONOLITHIC PO            |
|                                       |     | IC1301   | 0IPMG00063A | MP1593DN-LF-Z MONOLITHIC PO            |
|                                       |     | IC2      | 0IPMGK2001B | AIC1117A-33CYTR(BS33) AIC S            |
|                                       |     | IC3      | 0IKE702700D | "KIA7027AF 3, SOT-89 TP RESE"          |
|                                       |     | IC4      | 0IPMGK2001B | AIC1117A-33CYTR(BS33) AIC S            |
|                                       |     | IC4007   | 0IPMGK2001C | AIC1117A-25CYTR(BS25) AIC 3            |
|                                       |     | IC402    | 0IPMGK2001B | AIC1117A-33CYTR(BS33) AIC S            |
|                                       |     | IC403    | 0IKE704200J | KIA7042AF SOT-89 TP 4.2V VO            |
|                                       |     | IC6      | 0IPMGSG018D | LD1086DT18TR-LF SGS-THOMSON            |
|                                       |     | IC8      | 0IMCRFA015A | KA7805R FAIRCHILD 2P D-PAK             |
|                                       |     | IC888    | 0IMCRNS007A | LM2940S 8V NATIONAL SEMICON            |
|                                       |     | IC9      | 0IMCRFA010A | "KA7809R, FAIRCHILD 2P D-PAK"          |
|                                       |     | IC905    | 0IPMGFA061A | "FAN1587AD33X FAIRCHILD 3P,D"          |
|                                       |     | IC906    | 0IPMGSG018D | LD1086DT18TR-LF SGS-THOMSON            |
|                                       |     | IC950    | 0IPMGNS004B | LM2676S-ADJ NATIONAL SEMICO            |
|                                       |     | IC2000   | 0ISTL00026A | "MC14066BDR2G,LF ON SEMI 14P"          |
|                                       |     | IC702    | 0ISTL00024A | "MC14053BDR2G,LF ON SEMI 16P"          |
|                                       |     | IC752    | 0IMCRTI001A | "SN74HCT157DR,LF TEXAS INST"           |
| <b>COIL &amp; CORE &amp; INDUCTOR</b> |     |          |             |                                        |
|                                       |     | L910     | 6200TEZ012L | SLF12575T-680M2R0 TDK R/TP             |
|                                       |     | L1300    | 6140VR0008B | SLF12575T-150M3R2 15UH SMD             |
|                                       |     | L1301    | 6140VR0008B | SLF12575T-150M3R2 15UH SMD             |
|                                       |     | L414     | 6140VR0008A | SLF12575T-330M4R7 33UH SMD             |
|                                       |     | L415     | 6140VR0008A | SLF12575T-330M4R7 33UH SMD             |
|                                       |     | L416     | 6140VR0008A | SLF12575T-330M4R7 33UH SMD             |
|                                       |     | L417     | 6140VR0008A | SLF12575T-330M4R7 33UH SMD             |
|                                       |     | L100     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L101     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M-26LZ5RV-TC |
|                                       |     | L1002    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1205    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1206    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1207    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1208    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1209    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L1210    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L3       | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L301     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                                       |     | L302     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                                       |     | L304     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M-26LZ5RV-ZC |
|                                       |     | L311     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L4       | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L401     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L404     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L407     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L410     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L413     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L418     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L420     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L422     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                                       |     | L425     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |

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| *S                          | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                             |     | L426     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L500     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L5000    | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L501     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L502     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L503     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L505     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L600     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L601     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L602     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L701     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L802     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L900     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L901     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L902     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L903     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L907     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L202     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                             |     | L203     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                             |     | L204     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-ZC |
|                             |     | L205     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-ZC |
|                             |     | L207     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                             |     | L208     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                             |     | L209     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-ZC |
|                             |     | L210     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-ZC |
|                             |     | L211     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-TC |
|                             |     | L212     | 6210TCE001A | HB-1S2012-080JT CERATEC 201-26LZ5RV-TC |
|                             |     | L504     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | L603     | 6210TCE001A | HB-1S2012-080JT CERATEC 201            |
|                             |     | L801     | 6210TCE001G | HH-1M3216-501 CERATEC 3216M            |
|                             |     | Z1000    | 6200QL3002F | "X6966M EPCOS ST SIP5K, 6200"          |
|                             |     | L1       | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L1001    | 0LC1020101A | 1UH 10% 2012 R/TC FI-B2012-            |
|                             |     | L11      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L13      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L14      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L15      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L17      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L2       | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L402     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216-26LZ5RV-ZC |
|                             |     | L403     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L7       | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L10      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L12      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L16      | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L200     | 0LC1020101A | 1UH 10% 2012 R/TC FI-B2012-26LZ5RV-ZC  |
|                             |     | L201     | 0LC1020101A | 1UH 10% 2012 R/TC FI-B2012-26LZ5RV-ZC  |
|                             |     | L306     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L307     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L308     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L309     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L310     | 0LC1532101A | 15UH 10% 3216 R/TC FI-C3216            |
|                             |     | L8       | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
|                             |     | L9       | 0LC1032101A | 10UH 10% 3216 R/TC FI-C3216            |
| <b>FET &amp; TRANSISTOR</b> |     |          |             |                                        |
|                             |     | Q1000    | 0TR388109AA | KTC3881 CHIP TP KEC - -                |
|                             |     | Q1101    | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                             |     | Q1102    | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                             |     | Q210     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-TC  |
|                             |     | Q211     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-TC  |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                    |     | Q213     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-TC  |
|                    |     | Q300     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q302     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q303     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q304     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q318     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q410     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q411     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q412     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q700     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q12      | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q13      | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q14      | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q15      | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q16      | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q17      | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q301     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q305     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q306     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q308     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q310     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q313     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q315     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q316     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q317     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -26LZ5RV-ZC  |
|                    |     | Q401     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q402     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q403     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q404     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC -            |
|                    |     | Q500     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q805     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q806     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q807     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | Q901     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC -            |
|                    |     | IC1101   | 0TF492509AA | SI4925DY TP TEMIC 30V 6.1A             |
|                    |     | IC902    | 0TF492509AA | SI4925DY TP TEMIC 30V 6.1A             |
| <b>RESISTORS</b>   |     |          |             |                                        |
|                    |     | RA600    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | RA601    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | RA602    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | RA603    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | RA604    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | RA605    | 0RRZVTA001A | MNR-14-E0A-J-101 R OHM 100             |
|                    |     | L303     | 0RH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D-26LZ5RV-ZC |
|                    |     | R10      | 0RH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1001    | 0RH0562D622 | 56 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1002    | 0RH1501D622 | 1.5K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1003    | 0RH8200D622 | 820 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1004    | 0RH3000D622 | 300 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1005    | 0RH0682D622 | 68 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1010    | 0RH7501D622 | 7.5K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1011    | 0RH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1012    | 0RH7502D622 | 75K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1014    | 0RH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1026    | 0RH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R104     | 0RH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R106     | 0RH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D-26LZ5RV-TC |
|                    |     | R11      | 0RH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1100    | 0RH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1101    | 0RH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |

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|--------------------|-----|----------|-------------|----------------------------------------|
| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                    |     | R1102    | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1105    | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1106    | ORH1202D622 | 12K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1107    | ORH1502D622 | 15K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1108    | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%             |
|                    |     | R118     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R12      | ORH6801D622 | 6.8K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1203    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1204    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1205    | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1206    | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1207    | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1210    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1211    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1212    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1213    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R1220    | ORH2003D622 | 200K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1221    | ORH2003D622 | 200K OHM 1 / 10 W 2012 5.00            |
|                    |     | R1290    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R13      | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%             |
|                    |     | R1301    | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1304    | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R1350    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R154     | ORH0822D622 | 82 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R156     | ORH0822D622 | 82 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R158     | ORH0822D622 | 82 OHM 1 / 10 W 2012 5.00%             |
|                    |     | R162     | ORH2701D622 | 2.7K OHM 1 / 10 W 2012 5.00            |
|                    |     | R201     | ORH4703D622 | 470K OHM 1 / 10 W 2012 5.00            |
|                    |     | R202     | ORH1802D622 | 18K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R202     | ORH2202D622 | 22K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC |
|                    |     | R203     | ORH1802D622 | 18K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R203     | ORH2202D622 | 22K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC |
|                    |     | R204     | ORH4703D622 | 470K OHM 1 / 10 W 2012 5.00            |
|                    |     | R22      | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D            |
|                    |     | R24      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R25      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R300     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R301     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R302     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R304     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R305     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R306     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R307     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R308     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R309     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R312     | ORH4700D622 | 470 OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R313     | ORH1500D622 | 150 OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R314     | ORH4700D622 | 470 OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R315     | ORH1500D622 | 150 OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R320     | ORH4703D622 | 470K OHM 1 / 10 W 2012 5.00            |
|                    |     | R322     | ORH1500D622 | 150 OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R324     | ORH4703D622 | 470K OHM 1 / 10 W 2012 5.00            |
|                    |     | R338     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R339     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R342     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R343     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R348     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R349     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R352     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R353     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R354     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R355     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%            |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION           |
|                    |     | R363     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R367     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R373     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R377     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R379     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R381     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%-26LZ5RV-ZC |
|                    |     | R383     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R394     | ORH6800D622 | 680 OHM 1 / 10 W 5% D R/TP-26LZ5RV-ZC |
|                    |     | R395     | ORH6800D622 | 680 OHM 1 / 10 W 5% D R/TP            |
|                    |     | R403     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R418     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R421     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R435     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R44      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R45      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R451     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R453     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R455     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R46      | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%            |
|                    |     | R460     | ORH1500D622 | 150 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R461     | ORH1500D622 | 150 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R462     | ORH1503D622 | 150K OHM 1 / 10 W 2012 5.00           |
|                    |     | R463     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R464     | ORH1502D622 | 15K OHM 1 / 10 W 2012 5.00%           |
|                    |     | R465     | ORH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00           |
|                    |     | R467     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R468     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R5006    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R5008    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R5014    | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%           |
|                    |     | R502     | ORH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00           |
|                    |     | R5032    | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R505     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R506     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R516     | ORH0222D622 | 22 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R517     | ORH0222D622 | 22 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R519     | ORH0222D622 | 22 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R520     | ORH1800D622 | 180 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R527     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R530     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R532     | ORH0222D622 | 22 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R607     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R61      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%           |
|                    |     | R63      | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC  |
|                    |     | R610     | ORH2701D622 | 2.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R703     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R705     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R712     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R713     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R715     | ORH1202D622 | 12K OHM 1 / 10 W 2012 5.00%           |
|                    |     | R716     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R719     | ORH1502D622 | 15K OHM 1 / 10 W 2012 5.00%           |
|                    |     | R725     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R726     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R729     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R730     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R731     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%           |
|                    |     | R737     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R738     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00           |
|                    |     | R753     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D           |
|                    |     | R755     | ORH0102D622 | 10 OHM 1 / 10 W 2012 5.00%            |
|                    |     | R756     | ORH0102D622 | 10 OHM 1 / 10 W 2012 5.00%            |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION |
|                    |     | R758     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D |
|                    |     | R761     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D |
|                    |     | R809     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00 |
|                    |     | R810     | ORH7502D622 | 75K OHM 1 / 10 W 2012 5.00% |
|                    |     | R83      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R835     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R836     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R837     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R838     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R839     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R848     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R849     | ORH0752D622 | 75 OHM 1 / 10 W 2012 5.00%  |
|                    |     | R85      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R852     | ORH2200D622 | 220 OHM 1 / 10 W 2012 5.00% |
|                    |     | R853     | ORH2200D622 | 220 OHM 1 / 10 W 2012 5.00% |
|                    |     | R87      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R89      | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R930     | ORH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00 |
|                    |     | R931     | ORH3301D622 | 3.3K OHM 1 / 10 W 2012 5.00 |
|                    |     | R941     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R960     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00% |
|                    |     | R963     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00% |
|                    |     | R964     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D |
|                    |     | R969     | ORH1202D622 | 12K OHM 1 / 10 W 2012 5.00% |
|                    |     | R971     | ORH1502D622 | 15K OHM 1 / 10 W 2012 5.00% |
|                    |     | R974     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00 |
|                    |     | R976     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00 |
|                    |     | R977     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00 |
|                    |     | R978     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D |
|                    |     | R990     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%  |
|                    |     | R991     | ORH9101D622 | 9.1K OHM 1 / 10 W 2012 5.00 |
|                    |     | R992     | ORH1001D622 | 1K OHM 1 / 10 W 2012 5.00%  |
|                    |     | R999     | ORH0000D622 | 0 OHM 1 / 10 W 2012 5.00% D |
|                    |     | R100     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1013    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R1015    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R102     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1027    | ORJ1202D677 | 12K OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1028    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R108     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R109     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R110     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1109    | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R111     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1110    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R112     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R113     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R114     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R115     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R116     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R117     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R120     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1202    | ORJ0682D677 | 68 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R121     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R122     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R123     | ORJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1300    | ORJ6801D477 | 6.8K OHM 1/10 W 1% 1608 R/T |
|                    |     | R1302    | ORJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP |
|                    |     | R1303    | ORJ6801D477 | 6.8K OHM 1/10 W 1% 1608 R/T |
|                    |     | R1305    | ORJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP |
|                    |     | R15      | ORJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R152     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |

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|--------------------|-----|----------|-------------|------------------------------------------|
| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION              |
|                    |     | R153     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP                |
|                    |     | R155     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R157     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R159     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R16      | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R160     | ORJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R161     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R163     | ORJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R164     | ORJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R17      | ORJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R173     | ORJ3301D677 | 3.3K OHM 1/10 W 5% 1608 R/T              |
|                    |     | R175     | ORJ3301D677 | 3.3K OHM 1/10 W 5% 1608 R/T              |
|                    |     | R205     | ORJ0682D677 | 68 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R206     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R207     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R209     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R210     | ORJ2402D677 | 24K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC   |
|                    |     | R210     | ORJ3902D677 | 39K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R211     | ORJ5602D677 | 56000 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R211     | ORJ5102D677 | 51K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R212     | ORJ4703D677 | 470K OHM 1/10 W 5% 1608 R/T              |
|                    |     | R213     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R213     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC     |
|                    |     | R214     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R214     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC     |
|                    |     | R215     | ORJ4703D677 | 470K OHM 1/10 W 5% 1608 R/T              |
|                    |     | R218     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R220     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R222     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R223     | ORH2702D622 | 27K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R224     | ORJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC |
|                    |     | R225     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R226     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R227     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R228     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R229     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R230     | ORH1002D622 | 10K OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R231     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R232     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R233     | ORH1000D622 | 100 OHM 1 / 10 W 2012 5.00%-26LZ5RV-TC   |
|                    |     | R234     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R237     | ORJ0682D677 | 68 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R238     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R238     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC     |
|                    |     | R239     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R240     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R241     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R242     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R243     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R244     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC     |
|                    |     | R245     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R246     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC     |
|                    |     | R247     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R248     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC     |
|                    |     | R249     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R250     | ORJ2402D677 | 24K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC   |
|                    |     | R250     | ORJ3902D677 | 39K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R251     | ORJ5602D677 | 56000 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R251     | ORJ5102D677 | 51K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R252     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R253     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |
|                    |     | R254     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC    |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                    |     | R255     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC  |
|                    |     | R256     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC  |
|                    |     | R257     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC  |
|                    |     | R260     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R261     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC   |
|                    |     | R262     | ORJ4703D677 | 470K OHM 1/10 W 5% 1608 R/T-26LZ5RV-TC |
|                    |     | R263     | ORJ4703D677 | 470K OHM 1/10 W 5% 1608 R/T-26LZ5RV-TC |
|                    |     | R303     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R317     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R319     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R321     | ORJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R323     | ORJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R326     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R329     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R34      | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R35      | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R356     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R357     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R358     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R359     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R385     | ORJ6800D677 | 680 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R387     | ORJ6800D677 | 680 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R390     | ORJ6800D677 | 680 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R392     | ORJ6800D677 | 680 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R393     | ORJ6800D677 | 680 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R401     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R402     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R405     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R406     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R407     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R408     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R409     | ORJ3901D677 | 3.9K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R410     | ORJ3901D677 | 3.9K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R411     | ORJ3901D677 | 3.9K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R412     | ORJ3901D677 | 3.9K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R413     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R414     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R415     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R416     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R417     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R419     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R423     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R424     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R426     | ORJ1004D677 | 1000000 OHM 1/10 W 5% 1608             |
|                    |     | R427     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R428     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R429     | ORJ0102D677 | 10 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R430     | ORJ2201D677 | 2200 OHM 1/10 W 5% 1608 R/T            |
|                    |     | R432     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R436     | ORJ3301D677 | 3.3K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R438     | ORJ3301D677 | 3.3K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R439     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R456     | ORJ1203D677 | 120K OHM 1/10 W 5% 1608 R/T            |
|                    |     | R50      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R500     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R5002    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R5007    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R5009    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R501     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R5013    | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R5015    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R5016    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP              |

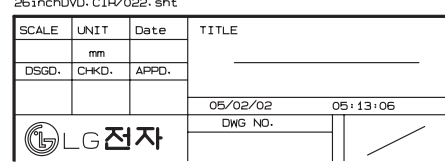
| DATE: 2005. 7. 15. |     |          |             |                             |
|--------------------|-----|----------|-------------|-----------------------------|
| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION |
|                    |     | R5017    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R5019    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R5020    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R5021    | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R5030    | ORJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/ |
|                    |     | R5031    | ORJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/T |
|                    |     | R504     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R51      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R514     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R515     | ORJ4703D677 | 470K OHM 1/10 W 5% 1608 R/T |
|                    |     | R518     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R52      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R521     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R522     | ORJ0332D677 | 33 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R523     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R524     | ORJ0332D677 | 33 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R525     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R526     | ORJ0332D677 | 33 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R528     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R529     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R53      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R533     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R534     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R54      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R55      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R56      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R57      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R58      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R59      | ORJ1201D677 | 1200 OHM 1/10 W 5% 1608 R/T |
|                    |     | R60      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R600     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R601     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R602     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R603     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R604     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R606     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R608     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R609     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R62      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R64      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R66      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R68      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R70      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R700     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R701     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R702     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R706     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R71      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R711     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R717     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R718     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R72      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R720     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R721     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R722     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R727     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R728     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R73      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP |
|                    |     | R739     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP  |
|                    |     | R740     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R751     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |
|                    |     | R752     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP   |

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| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION             |
|                    |     | R754     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R757     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R759     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R760     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R79      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R801     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R802     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R803     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R804     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R805     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R806     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R807     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R808     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R81      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R811     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R812     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R813     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R814     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R815     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R816     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R817     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R820     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R822     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R826     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R827     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC  |
|                    |     | R827     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R828     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC  |
|                    |     | R828     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R830     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R831     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R832     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R834     | ORJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R840     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC  |
|                    |     | R840     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC    |
|                    |     | R841     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R842     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R843     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R845     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R846     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R847     | ORJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R850     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R854     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R855     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R856     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R857     | ORJ2200D677 | 220 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R858     | ORJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC |
|                    |     | R859     | ORJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC |
|                    |     | R86      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R867     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R868     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R88      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R90      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R901     | ORJ0472D677 | 47 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R902     | ORJ0472D677 | 47 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R903     | ORJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP               |
|                    |     | R904     | ORJ0472D677 | 47 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R906     | ORJ0472D677 | 47 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R908     | ORJ0822D677 | 82 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R909     | ORJ0822D677 | 82 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R910     | ORJ0822D677 | 82 OHM 1/10 W 5% 1608 R/TP              |
|                    |     | R913     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC  |
|                    |     | R917     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP             |

| DATE: 2005. 7. 15. |     |          |             |                                        |
|--------------------|-----|----------|-------------|----------------------------------------|
| *S                 | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION            |
|                    |     | R918     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R920     | ORJ4990D477 | 499 OHM 1/10 W 1% 1608 R/TP            |
|                    |     | R921     | ORJ4990D477 | 499 OHM 1/10 W 1% 1608 R/TP            |
|                    |     | R929     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R93      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R933     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R934     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R935     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R936     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R938     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R939     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R940     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R942     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R944     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R945     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R945     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC  |
|                    |     | R946     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-ZC |
|                    |     | R946     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP-26LZ5RV-TC  |
|                    |     | R947     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R948     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R949     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R95      | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R950     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R952     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R953     | ORJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R970     | ORJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R972     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R975     | ORJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP            |
|                    |     | R981     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R982     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R983     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R984     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R985     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R986     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R987     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R988     | ORJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP             |
|                    |     | R989     | ORH4701D622 | 4.7K OHM 1 / 10 W 2012 5.00            |
| OTHERs             |     |          |             |                                        |
|                    |     | X11      | 6202VDT002E | SX-1SMD SUNNY RADIAL 202500            |
|                    |     | X500     | 6202VDT002J | SX-1 SUNNY 13.500000MHZ +/-            |
|                    |     | X601     | 6202VDT002H | SX-1 SUNNY 18.432000MHZ +/-            |
|                    |     | X900     | 6202VDT002B | SX-1 SUNNY SC14.3MHZ +/- 30            |
|                    |     | IC900    | 6620F00017A | CCSD-32T-SM WOYOUNG 32P PL             |
|                    |     | TU1000   | 6700VS0003E | TAEW-G053D LGIT MULTI VS PA            |
| IR BOARD           |     |          |             |                                        |
|                    |     | C1500    | 0CN1040K949 | "0.1UF D 50V 80%,-20% F(Y5V)"          |
|                    |     | L1500    | 0LA0102K119 | 10UH K 2.3*3.4 TP                      |
|                    |     | IR1500   | 6726TV0001A | TSOP4838SQ1 VISHAY 38.0KHZ             |
| CONTROL BOARD      |     |          |             |                                        |
|                    |     | L1700    | 0LA0102K119 | 10UH K 2.3*3.4 TP                      |
|                    |     | R1700    | 0RN8200F409 | 820 1/6W 1% TA52                       |
|                    |     | R1701    | 0RN6200F409 | 620 1/6W 1% TA52                       |
|                    |     | R1702    | 0RN5100F409 | 510 OHM 1/6 W 1.00% TA52               |
|                    |     | R1703    | 0RN4300F409 | 430 OHM 1/6 W 1.00% TA52               |
|                    |     | R1704    | 0RN3300F409 | 330 1/6W 1% TA52                       |
|                    |     | R1705    | 0RN2700F409 | 270 1/6W 1% TA52                       |

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|--------------------------------|-----|----------|-------------|-------------------------------|
| *S                             | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
|                                |     | R1706    | 0RN2701F409 | 2.7K OHM 1/6 W 1.00% TA52     |
|                                |     | SW1700   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1701   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1702   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1703   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1704   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1705   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW1706   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
| <b>LED &amp; P/SW BOARD</b>    |     |          |             |                               |
|                                |     | C1600    | 0CN1040K949 | "0.1UF D 50V 80%,-20% F(Y5V)" |
|                                |     | L1600    | 0LA0102K119 | 10UH K 2.3*3.4 TP             |
|                                |     | Q1601    | 0TR319809AA | KTC3198(KTC1815) KEC TP TO9   |
|                                |     | Q1602    | 0TR319809AA | KTC3198(KTC1815) KEC TP TO9   |
|                                |     | Q1603    | 0TR319809AA | KTC3198(KTC1815) KEC TP TO9   |
|                                |     | R1600    | 0RD3301Q609 | 3.30K 1/4W(3 5% TA52          |
|                                |     | R1601    | 0RD2701Q609 | 2.7K OHM 1/4 W(3.4) 5.00% T   |
|                                |     | R1602    | 0RD2700Q609 | 270 1/4W(3 5% TA52            |
|                                |     | R1603    | 0RD1001Q609 | 1K OHM 1/4 W(3.4) 5.00% TA5   |
|                                |     | R1604    | 0RD1001Q609 | 1K OHM 1/4 W(3.4) 5.00% TA5   |
|                                |     | R1605    | 0RD1001Q609 | 1K OHM 1/4 W(3.4) 5.00% TA5   |
|                                |     | R1606    | 0RD1500Q609 | 150 1/4W(3 5% TA52            |
|                                |     | SW1600   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | LED1600  | 0DLBE0128AA | BRIGHT LED ELECTRONICS BL-B   |
| <b>CONTROL DVD LOCAL BOARD</b> |     |          |             |                               |
|                                |     | R3201    | 0RD7501F609 | 7.5K OHM 1/6 W 5.00% TA52     |
|                                |     | R3202    | 0RD2401F609 | 2.4K OHM 1/6 W 5.00% TA52     |
|                                |     | R3203    | 0RD9100F609 | 910 OHM 1/6 W 5.00% TA52      |
|                                |     | R3204    | 0RD6200F609 | 620 OHM 1/6 W 5.00% TA52      |
|                                |     | R3205    | 0RD2400F609 | 240 OHM 1/6 W 5.00% TA52      |
|                                |     | R3206    | 0RD3301F609 | 3.3K OHM 1/6 W 5.00% TA52     |
|                                |     | R3207    | 0RD6201F609 | 6.2K OHM 1/6 W 5.00% TA52     |
|                                |     | SW3201   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW3202   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW3203   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW3204   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
|                                |     | SW3205   | 140-313A    | TACT 2LEAD 100G(TA) LG C&D    |
| <b>VIDEO BOARD</b>             |     |          |             |                               |
|                                |     | C2006    | 0CN4710K519 | 470PF D 50V 10% B(Y5P) TA52   |
|                                |     | C2007    | 0CN4710K519 | 470PF D 50V 10% B(Y5P) TA52   |
|                                |     | R2001    | 0RD0752Q609 | 75 1/4W(3 5% TA52             |
|                                |     | R2002    | 0RD0752Q609 | 75 1/4W(3 5% TA52             |
|                                |     | R2003    | 0RD0752Q609 | 75 1/4W(3 5% TA52             |
|                                |     | R2004    | 0RD0752Q609 | 75 1/4W(3 5% TA52             |
|                                |     | R2005    | 0RD0752Q609 | 75 1/4W(3 5% TA52             |
|                                |     | R2006    | 0RD4703Q609 | 470K 1/4W(3 5% TA52           |
|                                |     | R2007    | 0RD4703Q609 | 470K 1/4W(3 5% TA52           |







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