

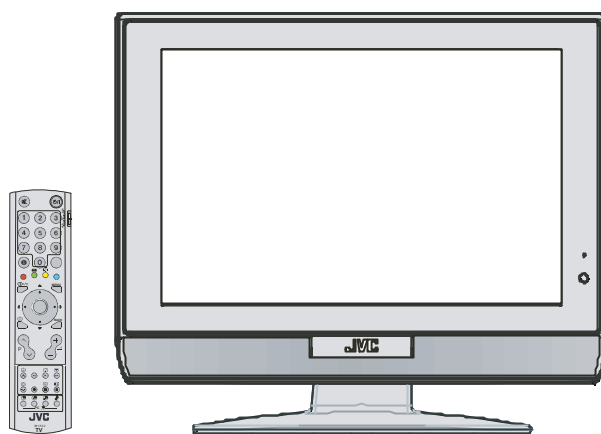
# JVC

## SERVICE MANUAL

WIDE LCD PANEL TELEVISION

**LT-17C50BJ, LT-17C50BU,  
LT-17C50BU<sub>IZ</sub>, LT-17C50SU,  
LT-17C50SU<sub>IZ</sub>, LT-17C88SJ**

InteríArt



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# SPECIFICATION

| Items                          |   | Contents  |
|--------------------------------|---|---|
| Dimensions ( W × H × D )       |   | 46.5cm × 37.0cm × 20.0cm [Included stand]<br>46.5cm × 32.6cm × 7.2cm [TV only]  |
| Mass                           |   | 6.0kg [Included stand]<br>5.0kg [TV only]   |
| Power Input                    |   | AC100V to AC240 V, 50 Hz  |
| Power Consumption              |   | 56W (Standby: 3.0W)   |
| TV RF System                   |   | CCIR B/G, I, D/K, L   |
| Colour System                  |   | PAL / SECAM / NTSC 3.58 / NTSC 4.43 (NTSC: EXT only).   |
| Stereo System                  |   | A2 (B/G, D/K), NICAM (B/G, I, D/K, L)   |
| Teletext System                |   | FLOF (Fastext), TOP, WST (World Standard System)  |
| Receiving Frequency            | VHF<br>UHF<br>CATV  | 47MHz to 470MHz<br>470MHz to 862MHz<br>116MHz to 172MHz / 220MHz to 469MHz  |
| Intermediate Frequency         | VIF<br>SIF  | 38.9MHz(B/G, D/K, I)<br>33.4MHz(5.5MHz:B/G) / 32.9MHz(6.0MHz:I) / 32.4MHz(6.5MHz:L,D/K)   |
| Colour Sub Carrier Frequency   | PAL<br>SECAM<br>NTSC                                      | 4.43MHz<br>4.40625MHz / 4.25MHz<br>3.58MHz / 4.43MHz  |
| LCD Panel                      |   | 17V-inch wide aspect (15:9)   |
| Screen Size                    |   | Diagonal : 43.3cm (H:37.1cm × V : 22.3cm)   |
| Display Pixels                 |   | Horizontal : 1280 dots × Vertical : 768 dots (W-XGA)  |
| Audio Power Output             |   | 5W + 5W(10% THD)  |
| Speaker                        |   | 3.4cm, round type × 2   |
| Aerial Terminal (VHF/UHF)      |   | 75Ω unbalanced, coaxial   |
| EXT-1 / EXT-2 (Input / Output) |   | 21-pin Euro connector (SCART socket ) × 2   |
| EXT-3(Input)                   | Component Video<br>625p / 525p / 625i / 525i<br><br>Audio | RCA pin jack × 3<br>Y : 1V (p-p), Positive (Negative sync provided), 75 Ω<br>Cb/Cr : 0.7V(p-p), 75 Ω<br>500mV(rms) (-4dBs), high impedance, RCA pin jack × 2  |
| EXT-4 (Input)                  | S-Video<br><br>Video<br>Audio                             | Mini-DIN 4 pin × 1<br>Y: 1V (p-p), Positive (Negative sync provided), 75 Ω<br>C: 0.286V (p-p) (Burst signal), 75 Ω<br>1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1<br>500mV (rms), High impedance, RCA pin jack × 2                                |
| PC (RGB) Input                 |   | D-sub 15pin × 1<br>R/G/B : 0.7V (p-p), 75Ω<br>HD / VD : 1V (p-p) to 5V (p-p), high impedance<br>< Available signal ><br>VGA : 640 pixels × 480 pixels (Horizontal : 31.5kHz / Vertical : 60Hz)<br>XGA : 1024 pixels × 768 pixels (Horizontal : 48.4kHz / Vertical : 60Hz) |
| PC AUDIO Input                 |   | 3.5mm stereo mini jack × 1  |
| Audio Output                   |   | 500mV (rms), Low impedance, RCA pin jack × 2  |
| Subwoofer Output               |   | More than 0 to 1000mV (rms) (+2.2dBs), low impedance (80Hz when modulated 100%), RCA pin jack × 1   |
| Headphone                      |   | 3.5mm stereo mini jack × 1  |
| Remote Control Unit            |   | RM-C1860 (AA/R6 dry cell battery × 2)   |

Design & specifications are subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\equiv$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (6) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

##### a) Dielectric Strength Test

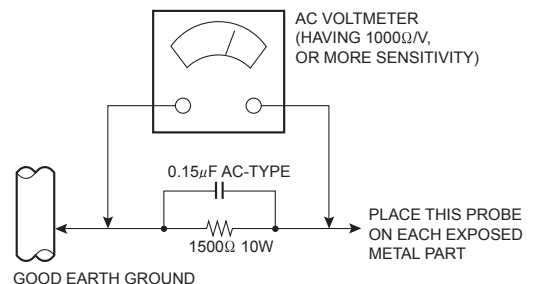
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. ( . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

##### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

##### Alternate Check Method

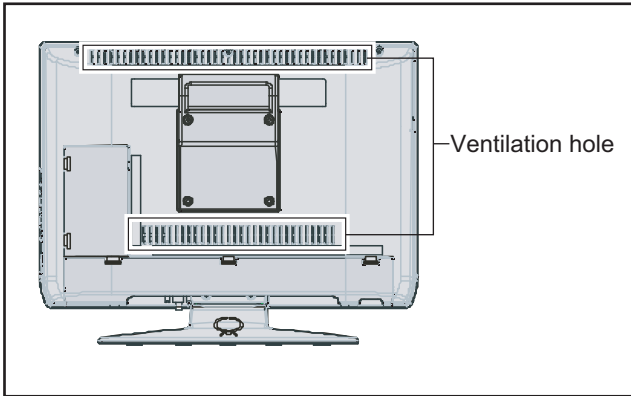
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 1.2 INSTALLATION

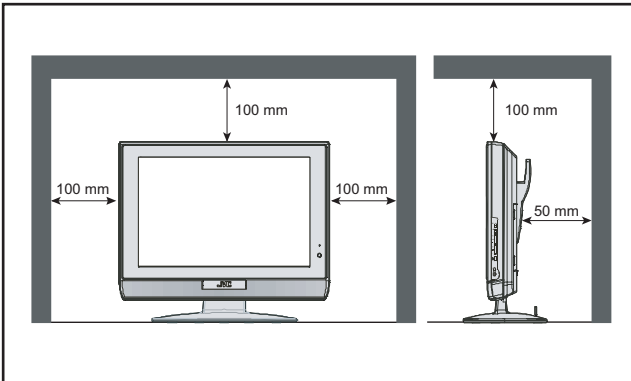
### 1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



### 1.2.2 INSTALLATION REQUIREMENTS

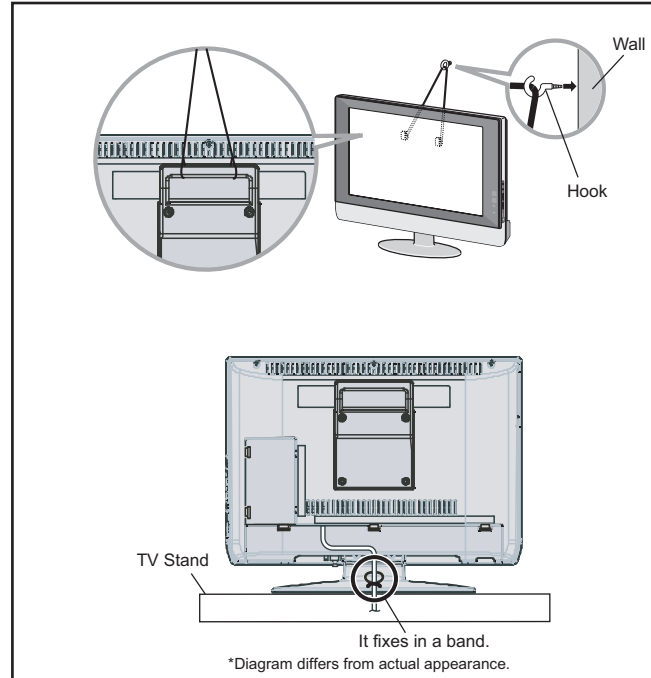
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



### 1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Use the supplied screws to firmly attach the supplied hooks (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



### 1.2.4 NOTES ON HANDLING

#### (1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

#### (2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

### 1.3 HANDLING LCD PANEL

#### 1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**  
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

- (2) **ATTACH PROTECTION SHEET TO THE FRONT**  
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

- (3) **AVOID VIBRATIONS AND IMPACTS**  
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**  
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

#### 1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

#### 1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

##### T-V LINK

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos.

##### ZOOM

This function can change the screen size according to the picture aspect ratio.

##### OFF TIMER

This function can set the TV to automatically turn off after a set time.

##### COLOUR SYSTEM

If the picture is not clear or no colour appears, change the current colour system to another colour system.

#### 2.2 MAIN DIFFERENCE LIST

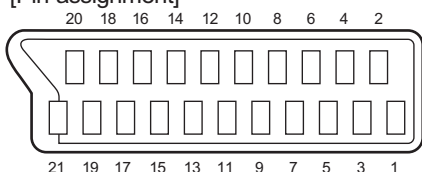
| Items          | LT-17C50BU      | LT-17C50SU | LT-17C50BU/Z                        | LT-17C50SU/Z | LT-17C50BJ      | LT-17C88SJ |
|----------------|-----------------|------------|-------------------------------------|--------------|-----------------|------------|
| CABINET COLOUR | BLACK           | SILVER     | BLACK                               | SILVER       | BLACK           | SILVER     |
| POWER CORD     | EU type(2-pin ) | ←          | SWE Type(3-pin )<br>EU type(2-pin ) | ←            | UK type(3-pin ) | ←          |

#### 2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1 / EXT-2

| Pin No. | Signal designation       | Matching value   | EXT-1         | EXT-2                    |
|---------|--------------------------|--|---------------|--------------------------|
| 1       | AUDIO R output           | 500mV(rms) (Nominal),, Low impedance                                 | Used (TV OUT) | Used (LINE OUT)          |
| 2       | AUDIO R input            | 500mV(rms) (Nominal),, High impedance                                | Used (R1)     | Used (R2)                |
| 3       | AUDIO L output           | 500mV(rms) (Nominal),, Low impedance                                 | Used (TV OUT) | Used (LINE OUT)          |
| 4       | AUDIO GND                |  | Used          | Used                     |
| 5       | GND (B)                  |  | Used          | Used                     |
| 6       | AUDIO L input            | 500mV(rms) (Nominal),, High impedance                                | Used (L1)     | Used (L2)                |
| 7       | B input                  | 700mV <sub>(B-W)</sub> , 75Ω   | Used          | Used                     |
| 8       | FUNCTION SW<br>(SLOW SW) | Low : 0V-3V<br>High : 8V-12V, High impedance                         | Used          | Used                     |
| 9       | GND (G)                  |  | Used          | Used                     |
| 10      | SCL / T-V LINK           |  | Not used      | Used<br>(SCL2 / TV-LINK) |
| 11      | G input                  | 700mV <sub>(B-W)</sub> , 75Ω   | Used          | Used                     |
| 12      | SDA                      |  | Not used      | Used (SDA2)              |
| 13      | GND (R)                  |  | Used          | Used                     |
| 14      | GND (YS)                 |  | Used          | Not used                 |
| 15      | R / C input              | R : 700mV <sub>(B-W)</sub> , 75Ω<br>C : 300mV <sub>(P-P)</sub> , 75Ω | Used (R)      | Used (C2/R)              |
| 16      | Ys input (FAST SW)       | Low : 0V-0.4V, High : 1V-3V, 75Ω                                     | Used          | Used                     |
| 17      | GND (VIDEO output)       |  | Used          | Used                     |
| 18      | GND (VIDEO input)        |  | Used          | Used                     |
| 19      | VIDEO output             | 1V <sub>(P-P)</sub> (Negative sync), 75Ω                             | Used (TV OUT) | Used (LINE OUT)          |
| 20      | VIDEO / Y input          | 1V <sub>(P-P)</sub> (Negative sync), 75Ω                             | Used          | Used                     |
| 21      | COMMON GND               |  | Used          | Used                     |

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



## 2.4 TECHNICAL INFORMATION

### 2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

#### 2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

| Item             | Specifications                       | Remarks                     |
|------------------|--------------------------------------|-----------------------------|
| Displayed colour | 16777216 colours                     | 256 colours for R, G, and B |
| Brightness       | 450cd/m <sup>2</sup>                 |                             |
| Contrast ratio   | 400: 1                               |                             |
| Response time    | 25ms                                 |                             |
| View angle       | Horizontally: 176°, Vertically: 170° |                             |

#### 2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

##### ■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

##### ■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

##### ■ FLICKER FAULT

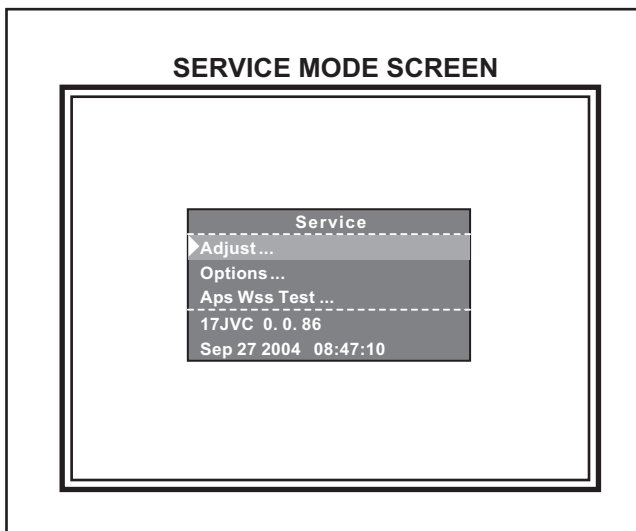
In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

## 2.5 BASIC OPERATION OF SERVICE MODE

### 2.5.1 HOW TO ENTER THE SERVICE MODE

- (1) Press **[INFORMATION]** key and **[MUTING]** key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.



### 2.5.2 HOW TO EXIT THE SERVICE MODE

Press the **[MENU]** key to exit the Service mode.

### 2.5.3 CHANGE AND MEMORY OF SETTING VALUE

#### ■ SELECTION OF SETTING MENU & ITEM

- **[FUNCTION ▲/▼]** key : Select the SETTING MENU & ITEM
- **[OK]** key : Decision the SETTING MENU & ITEM

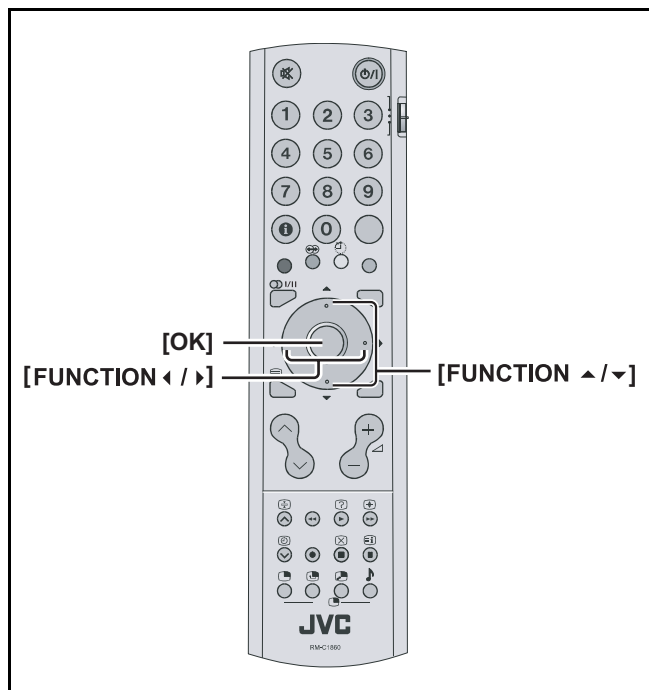
#### ■ CHANGE OF SETTING VALUE (DATA)

- **[FUNCTION ◀/▶]** key.

#### ■ MEMORY OF SETTING VALUE (DATA)

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys

### 2.5.4 SERVICE MODE SELECT KEY LOCATION



### 2.5.5 SERVICE MODE SETTING ITEMS

| Setting menu | Setting items        | Contents  |
|--------------|----------------------|---|
| Adjust       | Group                | ----  |
|              | Mode                 | ----  |
|              | Col. Temp.           | ----  |
|              | Contrast             | ----  |
|              | Brightness           | ----  |
|              | Colour               | ----  |
|              | Sharpness            | ----  |
|              | Red                  | ----  |
|              | Green                | ----  |
|              | Blue                 | ----  |
|              | Aps Volume           | ----  |
| Option 1     | First APS            | If ON, TV starts with APS menu at Start-up                                |
|              | BG                   | ----  |
|              | DK                   | ----  |
|              | I                    | ----  |
|              | L                    | ----  |
|              | L'                   | ----  |
|              | FM Prs Avl On        | Adjusts the FM Prescaler value, when Automatic Volume Levelling is On     |
|              | Nicam Prs Avl On     | Adjusts the Nicam Prescaler value, when Automatic Volume Levelling is On  |
|              | Scart Prs Avl On     | Adjusts the Scart Volume value, when Automatic Volume Levelling is On     |
|              | Scart Volume Avl On  | Adjusts the Scart Volume value, when Automatic Volume Levelling is On     |
| Option 2     | FM Prs Avl Off       | Adjusts the FM Prescaler value, when Automatic Volume Levelling is Off    |
|              | Nicam Prs Avl Off    | Adjusts the Nicam Prescaler value, when Automatic Volume Levelling is Off |
|              | Scart Prs Avl Off    | Adjusts the Scart Prescaler value, when Automatic Volume Levelling is Off |
|              | Scart Volume Avl Off | Adjusts the Scart Volume value, when Automatic Volume Levelling is On     |
|              | Avl                  | Enable/disable Automatic Volume Levelling System                          |
|              | Sound                | ----  |
|              | Carrier              | ----  |
|              | LDLY                 | ----  |
|              | AGC                  | ----  |
|              | Aps Wss Test         | Programme   |
| Aps Wss Test | VPS                  | ----  |
|              | Scart Volume Avl Off | ----  |
|              | Pdc Format 1         | ----  |
|              | Pdc Format 2         | ----  |
|              | Name                 | ----  |
|              | WSS                  | ----  |



## SECTION 3 DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE

#### NOTE:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

#### 3.1.1 REMOVING THE STAND UNIT

- Remove the TFT DOOR SOCKET / AV DOOR SOCKET.
  - (1) Remove the 2 screws [A], then remove the FOOT TOP COVER.
  - (2) Remove the 4 screws [B], then remove the STAND UNIT.

#### 3.1.2 REMOVING THE HANDLE

- Remove the STAND UNIT.
  - (1) Remove the 4 screws [C].
  - (2) Remove the HANDLE.

#### 3.1.3 REMOVING THE BACK COVER

- Remove the STAND UNIT.
- Remove the HANDLE.
  - (1) Remove the 5 screws [D].
  - (2) Remove the BACK COVER toward you.

#### 3.1.4 REMOVING THE AV JACK PWB

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
  - (1) Remove the 2 screws [E].
  - (2) Remove the AV JACK PWB.

#### 3.1.5 REMOVING THE BRACKET SCART

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
- Remove the AV JACK PWB.
  - (1) Remove the 2 screws [F].
  - (2) Remove the BRACKET SCART.

#### 3.1.6 REMOVING THE MAIN PWB

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
- Remove the BRACKET SCART.
  - (1) Remove the 7 screws [G].
  - (2) Remove the MAIN PWB.

#### 3.1.7 REMOVING THE MAIN FRAME

- Remove the STAND UNIT / HANDLE & BACK COVER.
- Remove the BRACKET SOCKET & BRACKET SCART.
- Remove the MAIN PWB.
  - (1) Remove the 7 screws [H].
  - (2) Remove the MAIN FRAME.

#### 3.1.8 REMOVING THE INVERTER PWB / INVERTER FRAME

- Remove the STAND UNIT / HANDLE & BACK COVER.
- Remove the BRACKET SOCKET, BRACKET SCART & MAIN PWB.
  - (1) Remove the 4 screws [I], then remove the INVERTER PWB.
  - (2) Remove the 4 screws [J], then remove the INVERTER FRAME.
  - (3) Remove the INVERTER PWB & INVERTER FRAME.

#### 3.1.9 REMOVING THE LCD PANEL UNIT

- Remove the STAND UNIT, HANDLE & BACK COVER.
- Remove the BRACKET SCART & MAIN PWB.
- Remove the MAIN FRAME & INVERTER PWB / FRAME.
  - (1) Remove the 2 screws [K].
  - (2) Follow the same step when removing the other hand LCD HOLDER.
  - (3) Slightly raise the both sides of the LCD PANEL UNIT by hand from the FRONT COVER.

#### NOTE:

- Pay special attention not to break or damage on the LCD PANEL face or frame.
- The LCD PANEL UNIT is fixed to the FRONT COVER (at the back side) by using double-side adhesive tapes. To remove the LCD PANEL UNIT, remove the adhesive tape on the FRONT PANELS slowly.

#### 3.1.10 REMOVING THE SPEAKERS

- Remove the STAND UNIT, HANDLE & BACK COVER.
  - (1) Remove the 4 screws [L] from each speaker.
  - (2) Remove the SPEAKER from the FRONT COVER.
  - (3) Follow the same when removing the other hand speakers.

#### 3.1.11 REMOVING THE HEADPHONE PWB

- Remove the STAND UNIT, HANDLE & BACK COVER.
  - (1) Remove the 1 screw [M].
  - (2) Remove the HEADPHONE PWB from the FRONT COVER.

#### 3.1.12 REMOVING THE LED PWB

- Remove the STAND UNIT, HANDLE & BACK COVER.
- Remove the BRACKET SOCKET, BRACKET SCART, MAIN PWB, INVERTER FRAME & MAIN FRAME.
  - (1) Remove the 1 screw [N].
  - (2) Remove the LED PWB from the FRONT COVER.

#### 3.1.13 REMOVING THE SIDE CONTROL PWB

- Remove the LED PWB / HEADPHONE PWB.
  - (1) Remove the 2 screws [O].
  - (2) Remove the SIDE CONTROL PWB with control knob.
  - (3) Remove the SIDE CONTROL PWB from control knob.

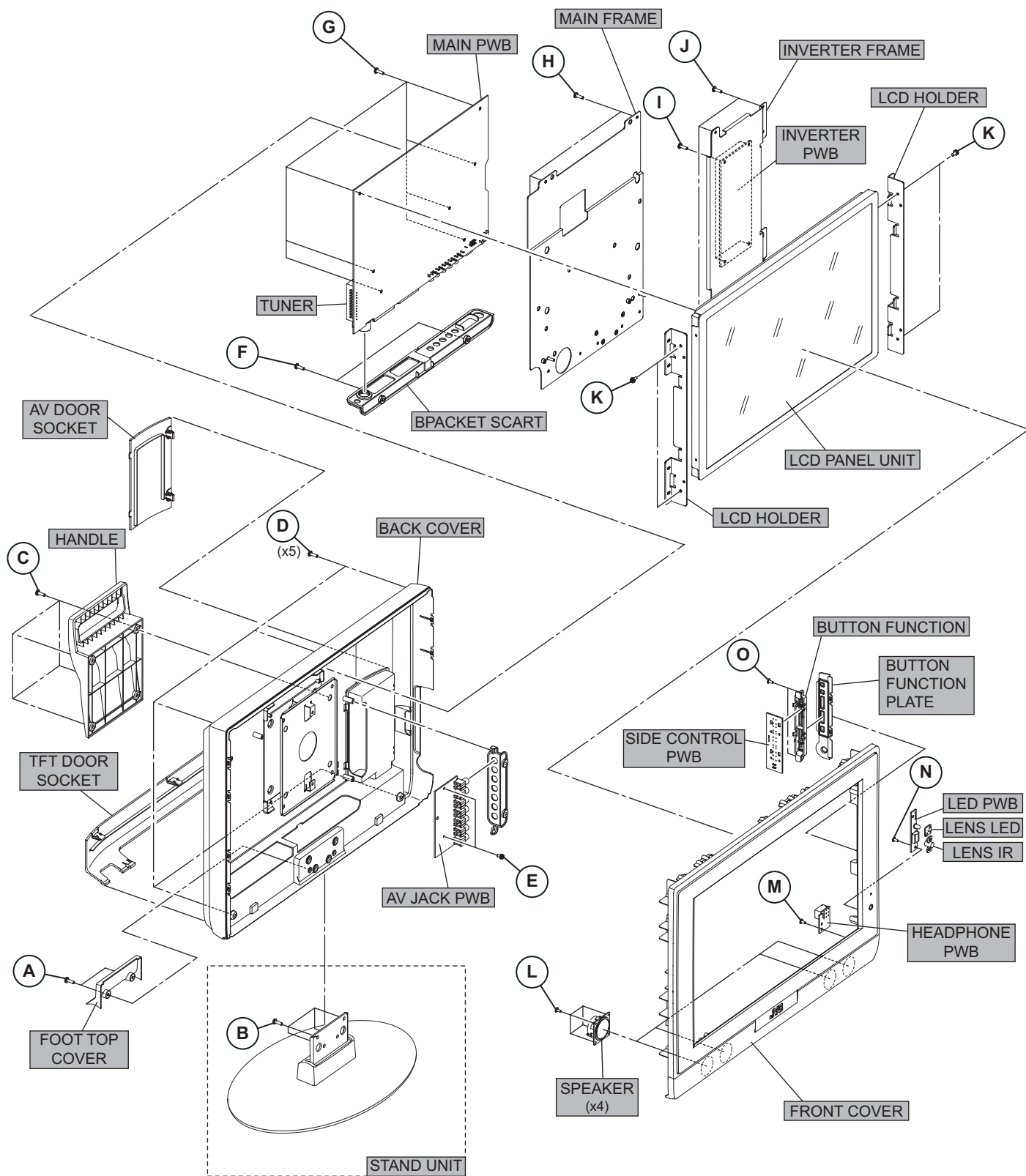


Fig.1

## 3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

### 3.2.1 SETTINGS OF FACTORY SHIPMENT

#### 3.2.1.1 BUTTON OPERATION

| Setting item | Setting position |
|--------------|------------------|
| POWER        | Off              |
| TV/AV        | TV               |

#### 3.2.1.2 REMOTE CONTROL DIRECT OPERATION

| Setting item | Setting position |
|--------------|------------------|
| ZOOM         | AUTO             |

#### 3.2.1.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE

| Setting item | Setting position |
|--------------|------------------|
| MODE         | Bright           |
| Contrast     | 36 Step          |
| Bright-1     | 26 Step          |
| Sharpness    | 11 Step          |
| Colour       | 39 Step          |
| Bright-2     | 31 Step          |
| Colour Temp. | Cool             |
| Noise Red.   | Min              |

##### (2) SOUND

| Setting item | Setting position |
|--------------|------------------|
| Volume       | 10 Step          |
| Bass         | 16 Step          |
| Treble       | 15 Step          |
| Balance      | 16 Step          |
| Hyper Sound  | Off              |
| Sound Mode   | Mono             |

##### (3) FEATURES

| Setting item | Setting position |
|--------------|------------------|
| Sleep Timer  | Off              |
| Child Lock   | Off              |
| Language     | English          |
| EXT-2 Output | TV               |
| Blue Back    | Off              |

##### (4) Install [TV MODE]

| Setting item    | Setting position |
|-----------------|------------------|
| Colour System   | Auto             |
| Decorder(EXT-2) | Off              |
| VCR             | Off              |

##### (5) Install [EXT MODE]

| Setting item  | Setting position |
|---------------|------------------|
| Colour System | Auto             |
| VCR           | Off              |

### 3.3 REPLACEMENT OF CHIP COMPONENT

#### 3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.3.2 SOLDERING IRON

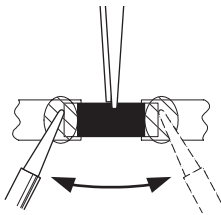
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.3.3 REPLACEMENT STEPS

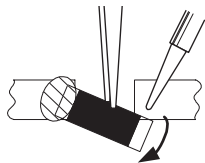
##### 1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

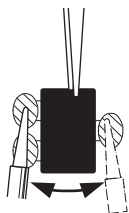


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



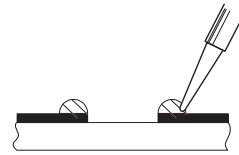
#### NOTE :

After removing the part, remove remaining solder from the pattern.

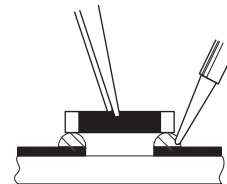
##### 2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

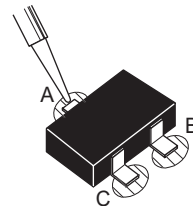


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

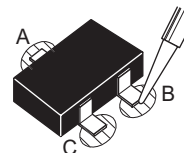


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



## **SECTION 4 ADJUSTMENT**

This service manual does not describe ADJUSTMENT.

## **SECTION 5 TROUBLESHOOTING**

This service manual does not describe TROUBLESHOOTING.



Victor Company of Japan, Limited  
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(No.YA222)



Printed in Japan  
VPT

# JVC

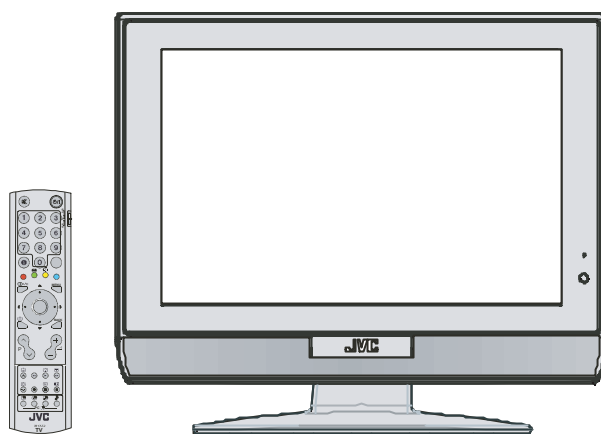
## SCHEMATIC DIAGRAMS

WIDE LCD PANEL TELEVISION

**LT-17C50BJ, LT-17C50BU,  
LT-17C50BU<sub>IZ</sub>, LT-17C50SU,  
LT-17C50SU<sub>IZ</sub>, LT-17C88SJ**

CD-ROM No.SML200508


InteríArt



# LT-17C50BJ, LT-17C50BU, LT-17C50BU/z, LT-17C50SU, LT-17C50SU/z, LT-17C88SJ STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20kΩ/V
- (4)Oscilloscope sweeping time : H ⇒ 20μs / div  
: V ⇒ 5ms / div  
: Others ⇒ Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209 → R209

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

#### (1)Resistors

##### ● Resistance value

- No unit : [Ω]
- K : [kΩ]
- M : [MΩ]

##### ● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

##### ● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

#### (2)Capacitors

##### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μF]

##### ● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

##### ●Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

#### (3)Coils

- No unit : [μH]
- Others : As specified

#### (4)Power Supply



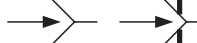
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

\* Respective voltage values are indicated





#### (5)Test point

-  : Test point
-  : Only test point display



#### (6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

#### (7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

## 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

#### NOTE

- ◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.  
When ordering parts, please use the numbers that appear in the Parts List.

(No.YA222)2-1



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USING P.W. BOARD

| P.W.B ASS'Y name          | LT-17C50BJ  | LT-17C50BU  | LT-17C50BU/Z | LT-17C50SU | LT-17C50SU/Z | LT-17C88SJ |
|---------------------------|-------------|-------------|--------------|------------|--------------|------------|
| MAIN P.W. BOARD           | VE-20182789 | VE-20177930 | ←            | ←          | ←            | ←          |
| SIDE CONTROL P.W. BOARD   | VE-20174624 | ←           | ←            | ←          | ←            | ←          |
| LED P.W. BOARD            | VE-20174629 | ←           | ←            | ←          | ←            | ←          |
| AV JACK P.W. BOARD        | VE-20177847 | ←           | ←            | ←          | ←            | ←          |
| HEADPHONE JACK P.W. BOARD | VE-20177874 | ←           | ←            | ←          | ←            | ←          |

SEMICONDUCTOR SHAPES

TRANSISTOR

| BOTTOM VIEW | FRONT VIEW |  |  |  | TOP VIEW    |
|-------------|------------|--|--|--|-------------|
|             |            |  |  |  | CHIP TR<br> |

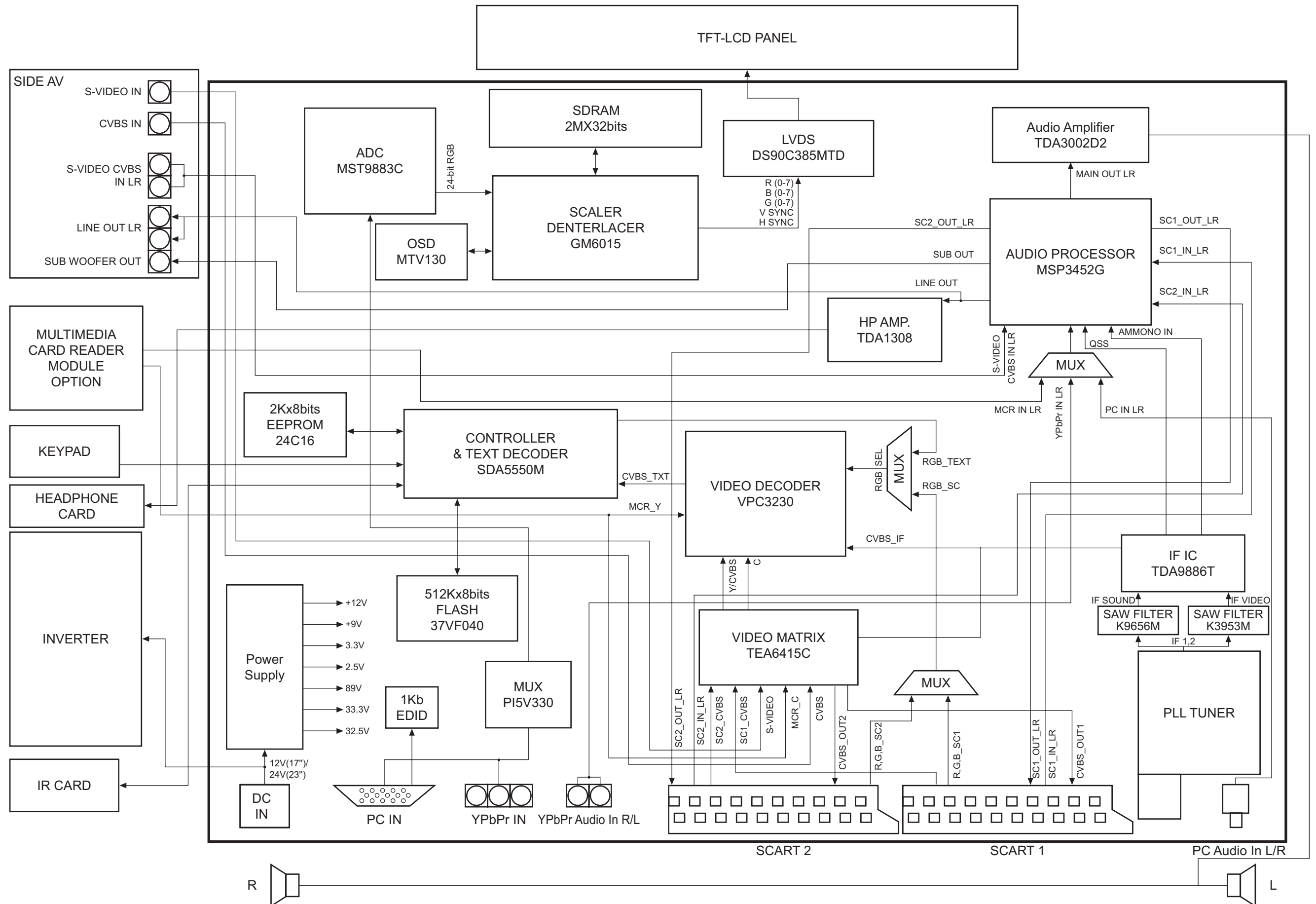
IC

| BOTTOM VIEW | FRONT VIEW |  |  | TOP VIEW |
|-------------|------------|--|--|----------|
|             |            |  |  |          |

CHIP IC

| TOP VIEW |  |  |
|----------|--|--|
|          |  |  |

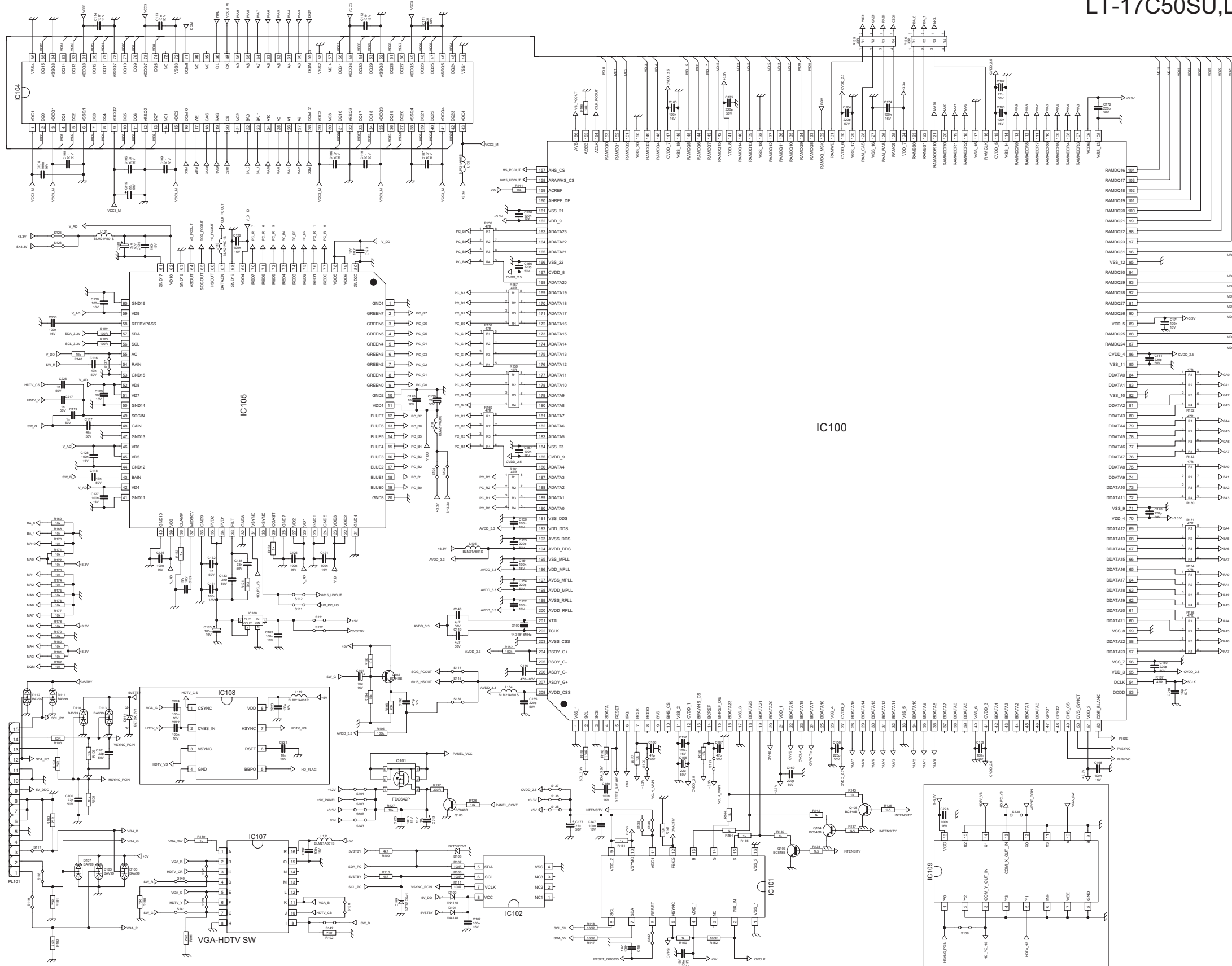
## BLOCK DIAGRAM



MAIN PWB CIRCUIT DIAGRAM (1/8)

VE-20182789 [LT-17C50BJ]

LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

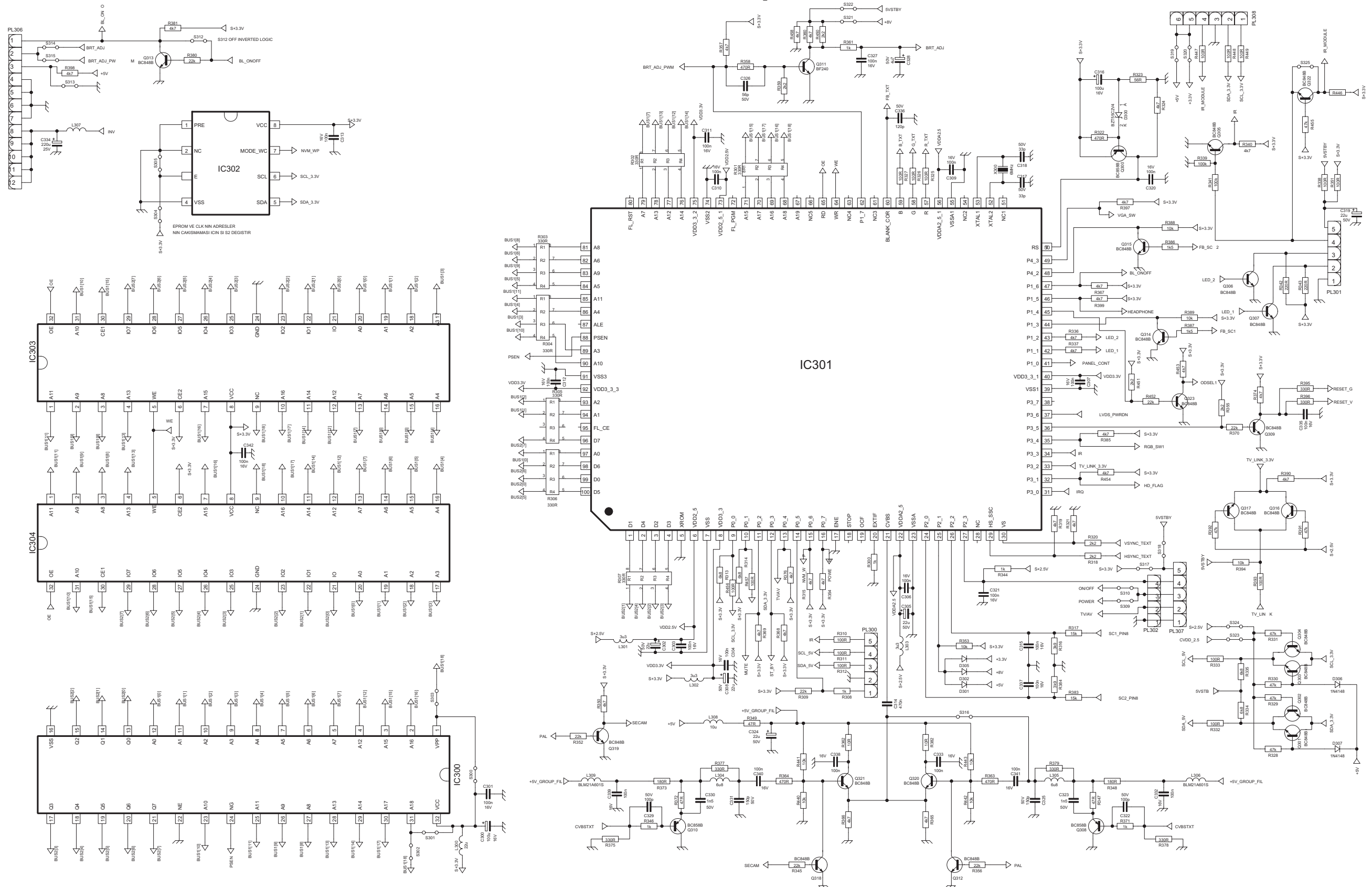


## MAIN PWB ASS'Y (2/8)

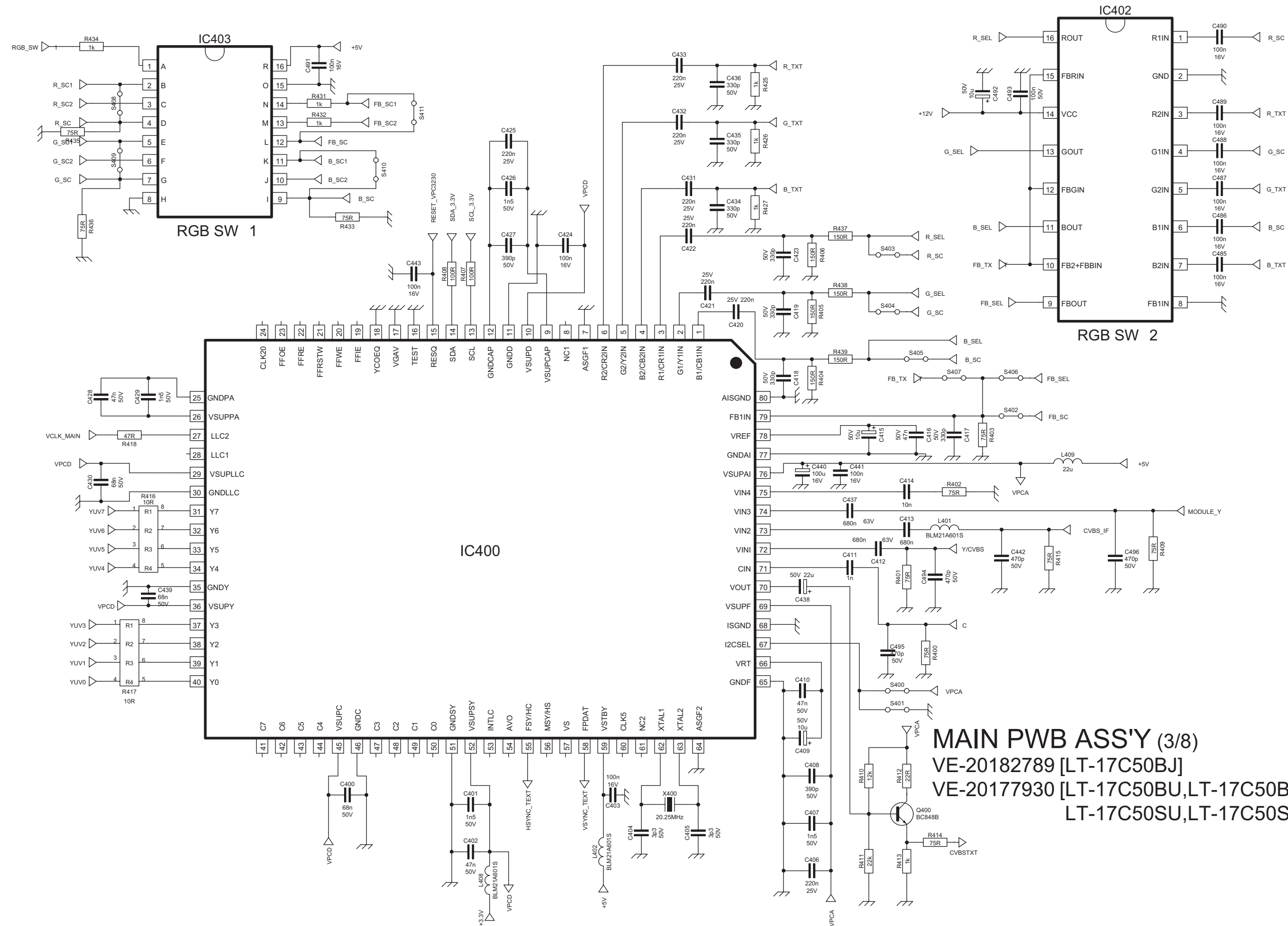
VE-20182789 [LT-17C50BJ]

VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

NOTE : Refer to the part list for the part number of IC301 and IC302.

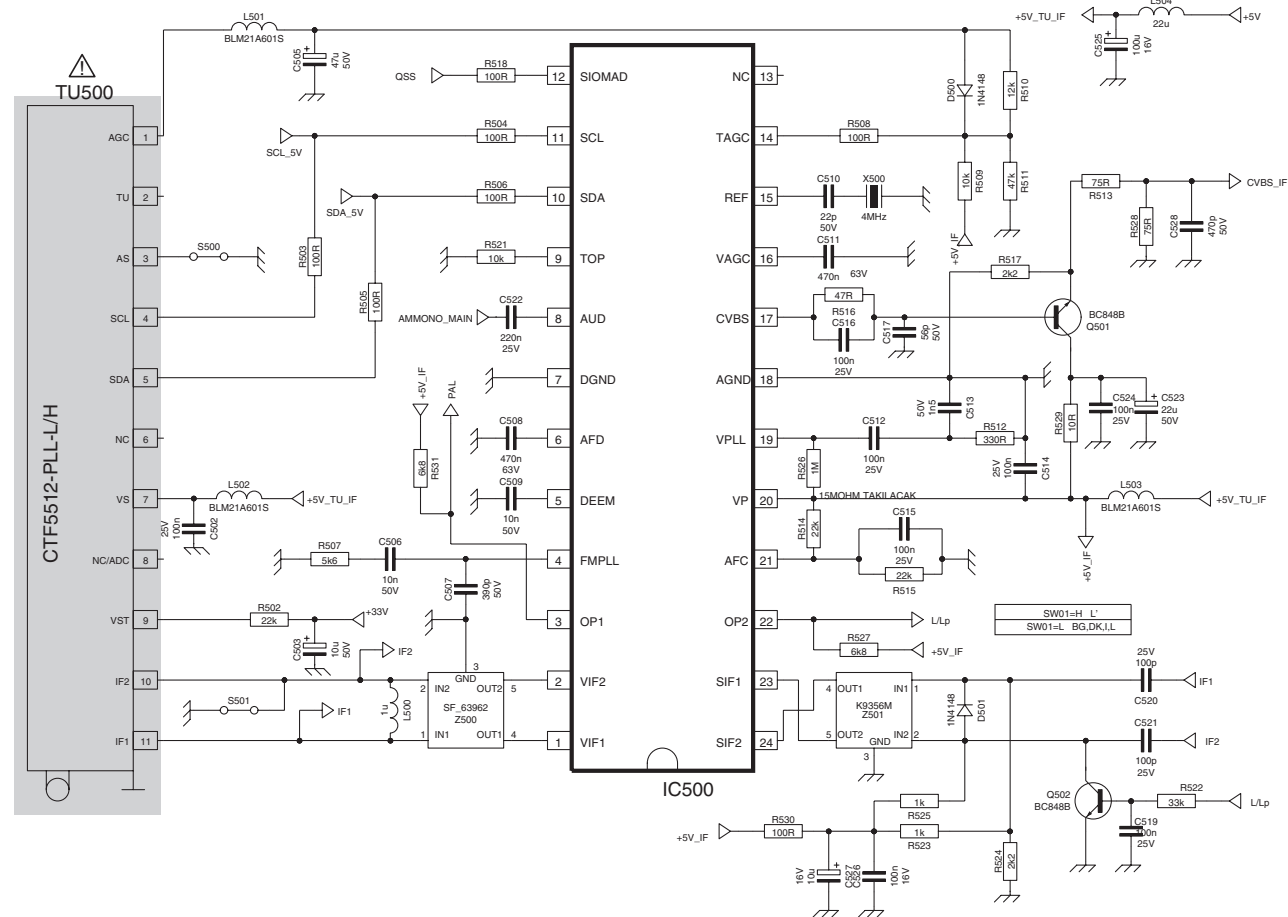


MAIN PWB CIRCUIT DIAGRAM (3/8)



MAIN PWB ASS'Y (3/8)  
VE-20182789 [LT-17C50BJ]  
VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

MAIN PWB CIRCUIT DIAGRAM (4/8)

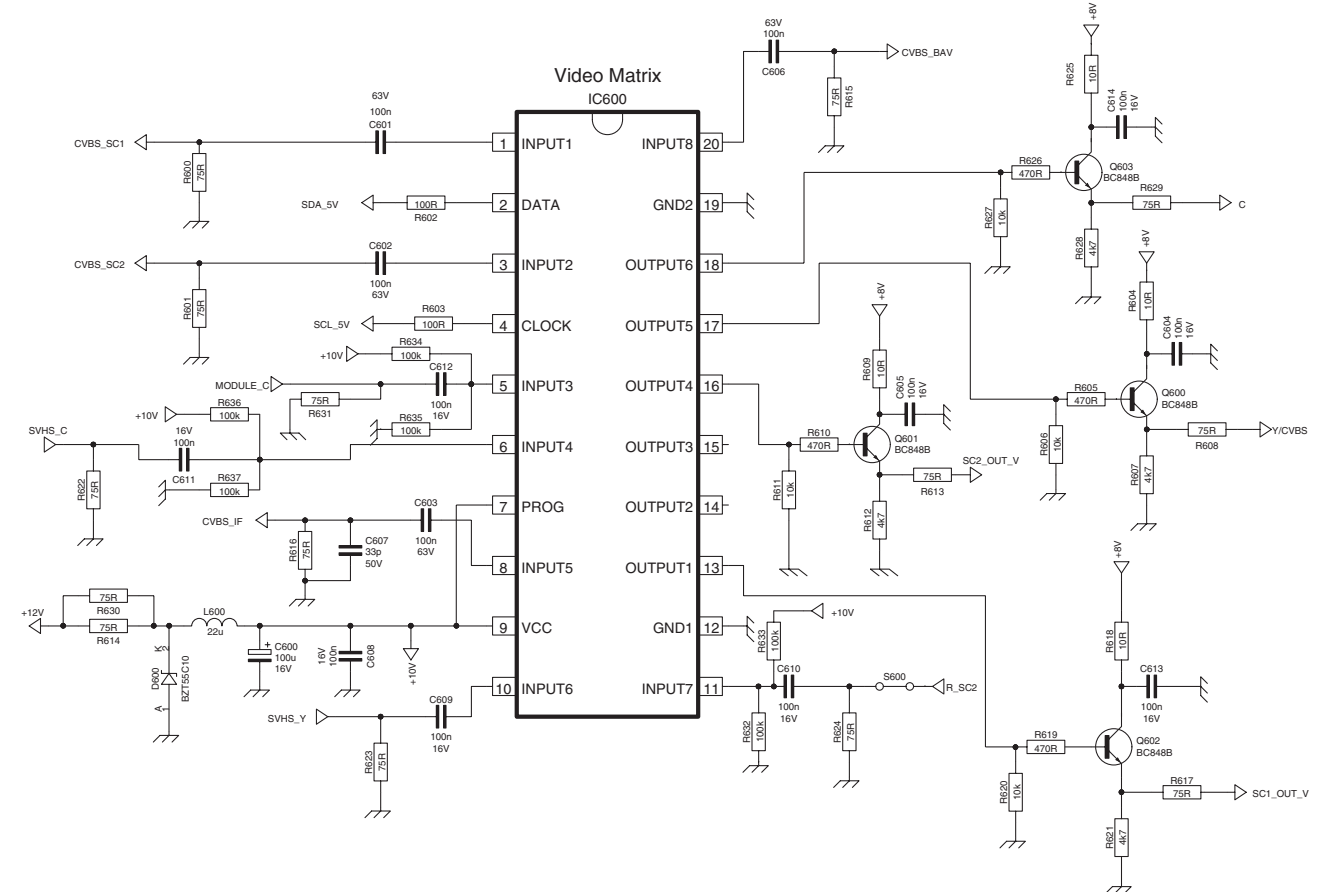


## MAIN PWB ASS'Y (4/8)

VE-20182789 [LT-17C50BJ]

VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

MAIN PWB CIRCUIT DIAGRAM (5/8)



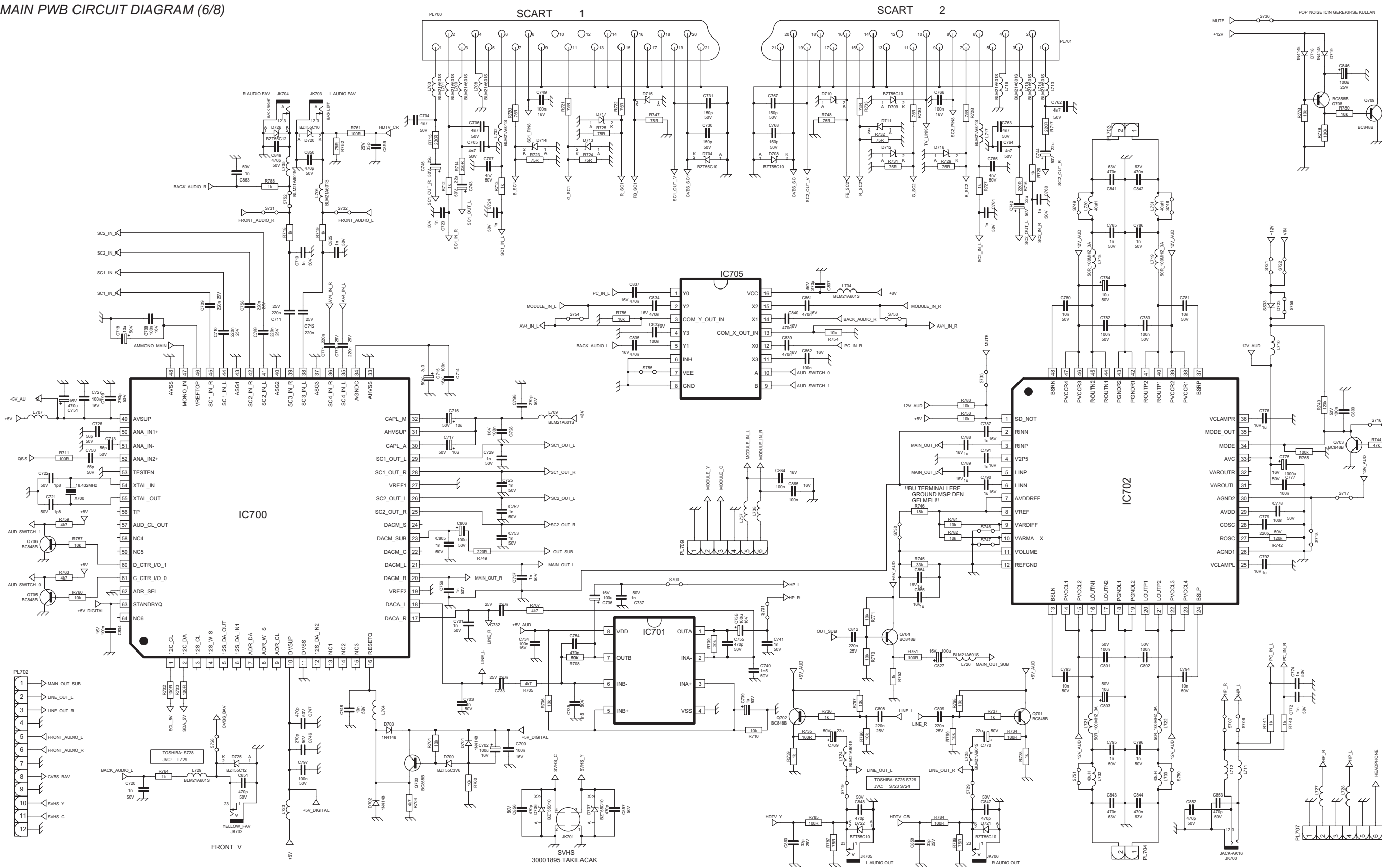
## MAIN PWB ASS'Y (5/8)

VE-20182789 [LT-17C50BJ]

VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]



MAIN PWB CIRCUIT DIAGRAM (6/8)



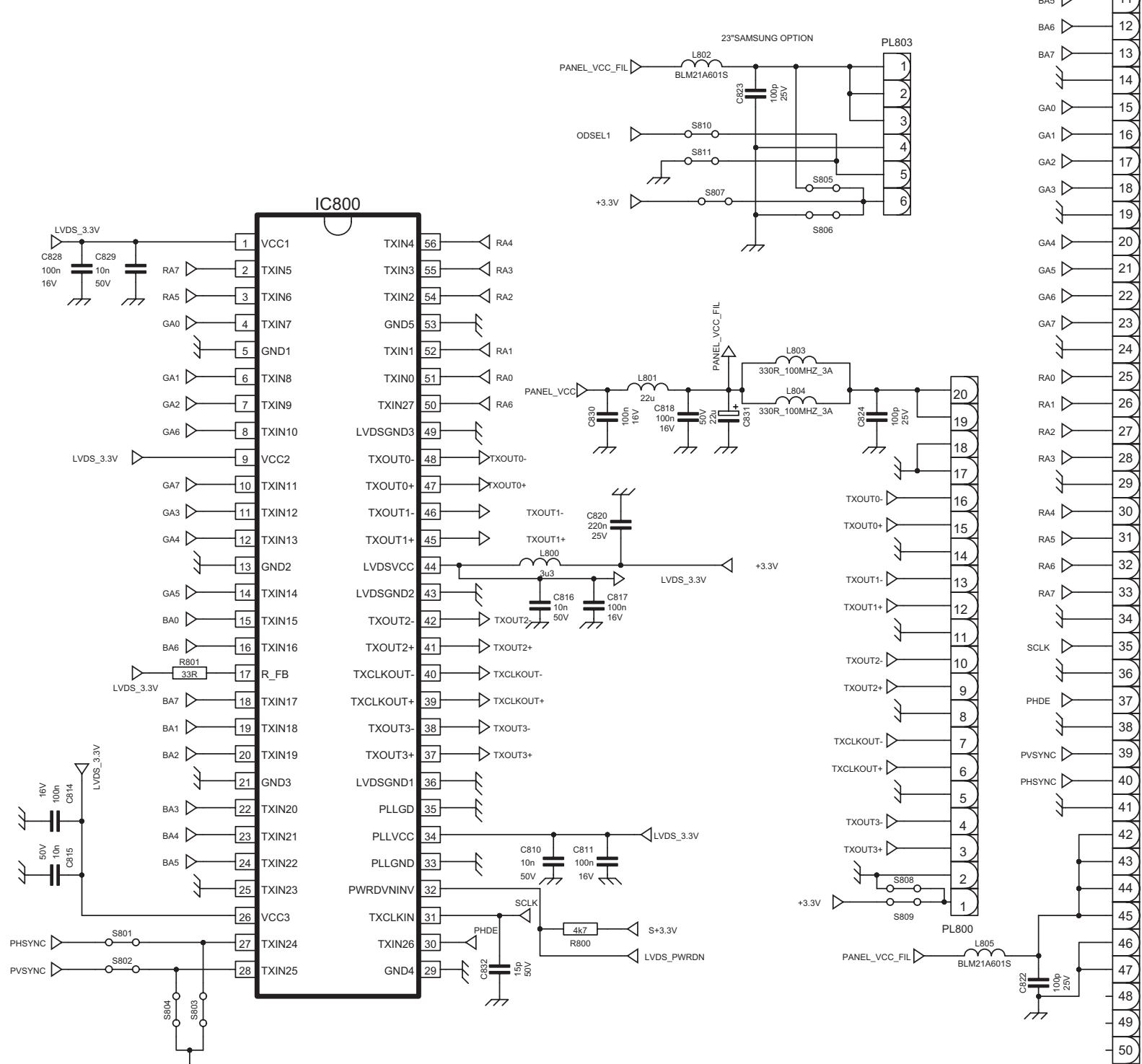
MAIN PWB ASS'Y (6/8)

VE-20182789 [LT-17C50BJ]

VE-20177930 [LT-17C50BU,LT-17C50BU/Z,

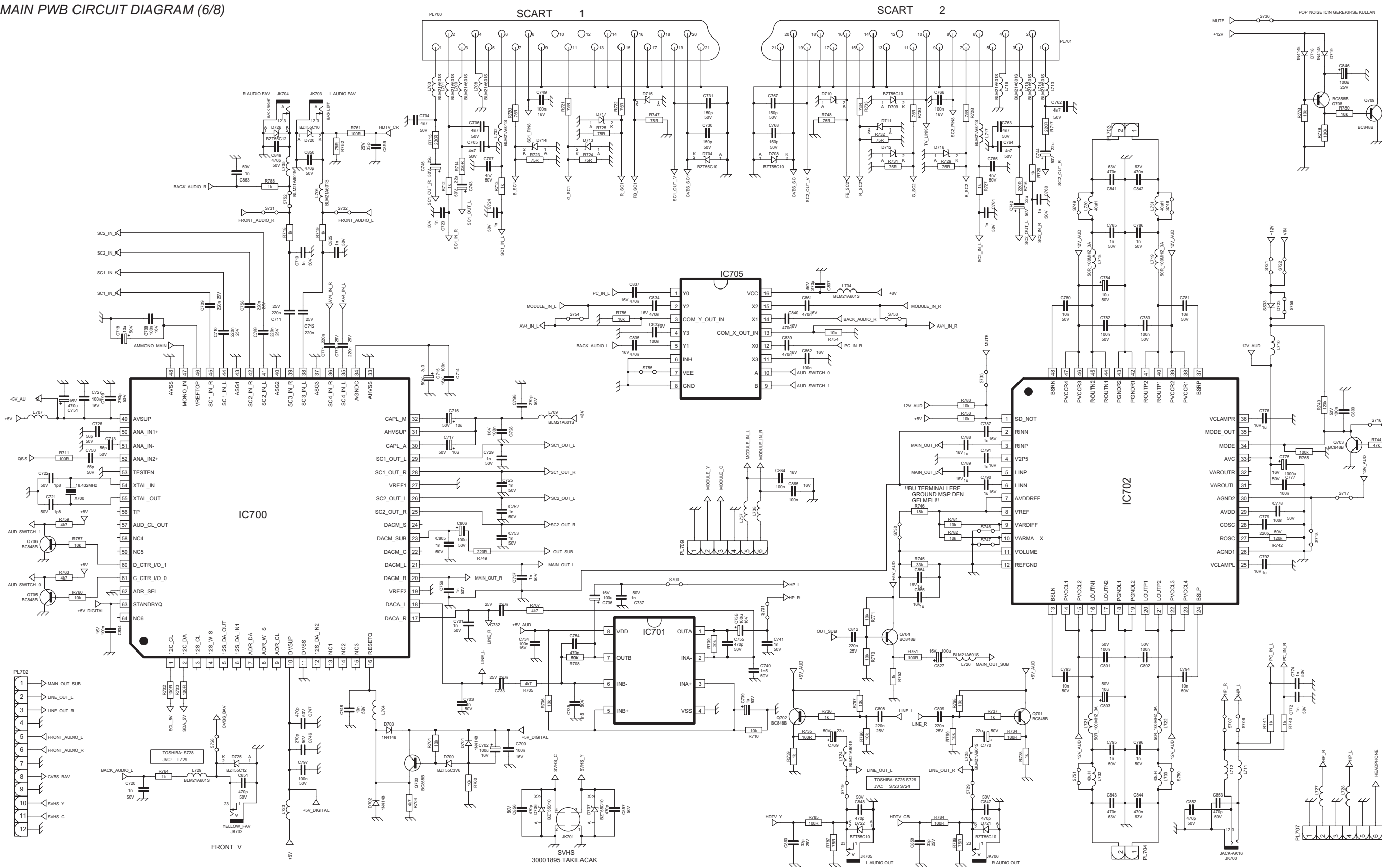
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

MAIN PWB ASS'Y (7/8)  
VE-20182789 [LT-17C50BJ]  
VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]





MAIN PWB CIRCUIT DIAGRAM (6/8)



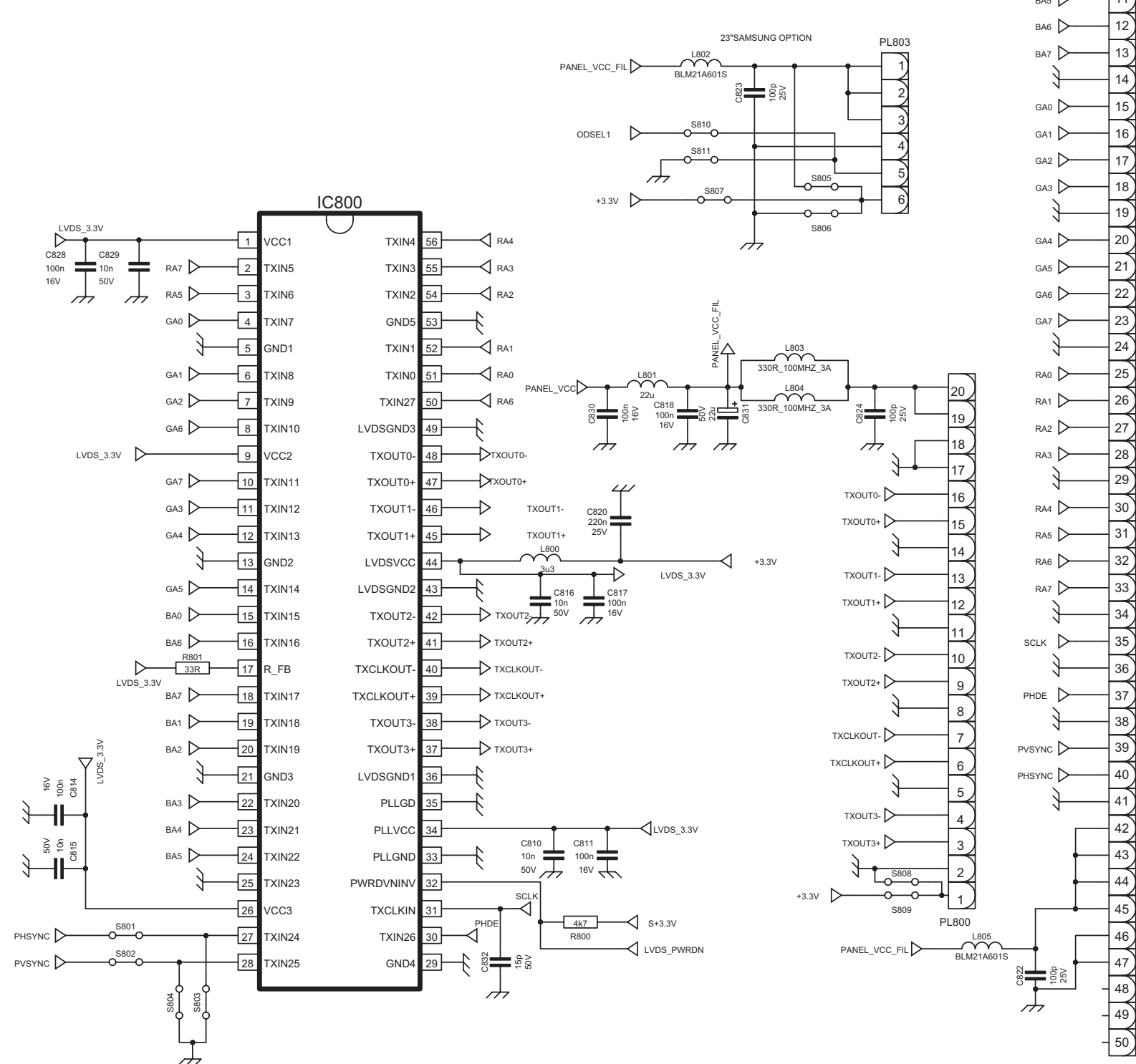
MAIN PWB ASS'Y (6/8)

VE-20182789 [LT-17C50BJ]  
VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

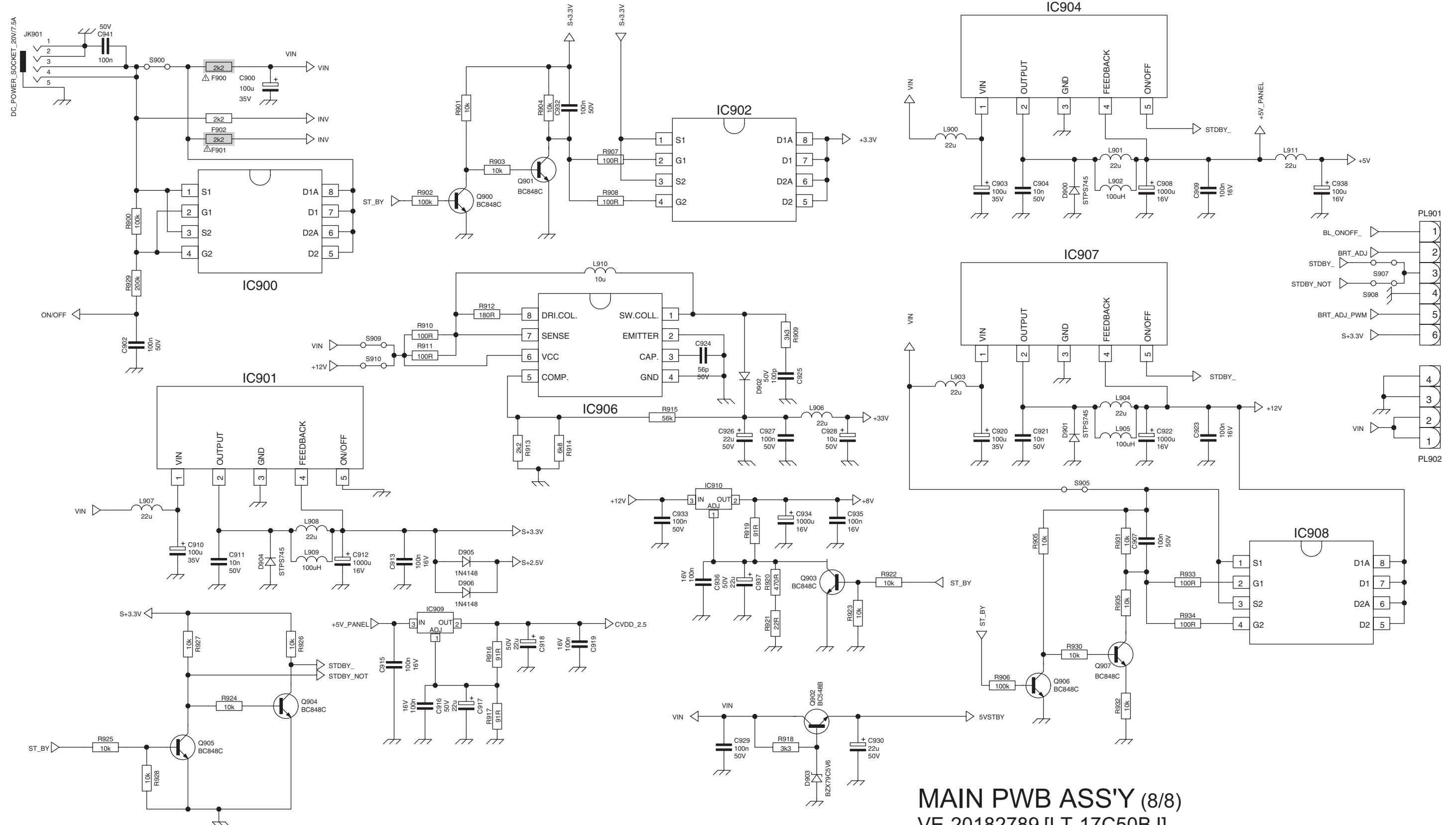
## MAIN PWB ASS'Y (7/8)

VE-20182789 [LT-17C50BJ]

VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

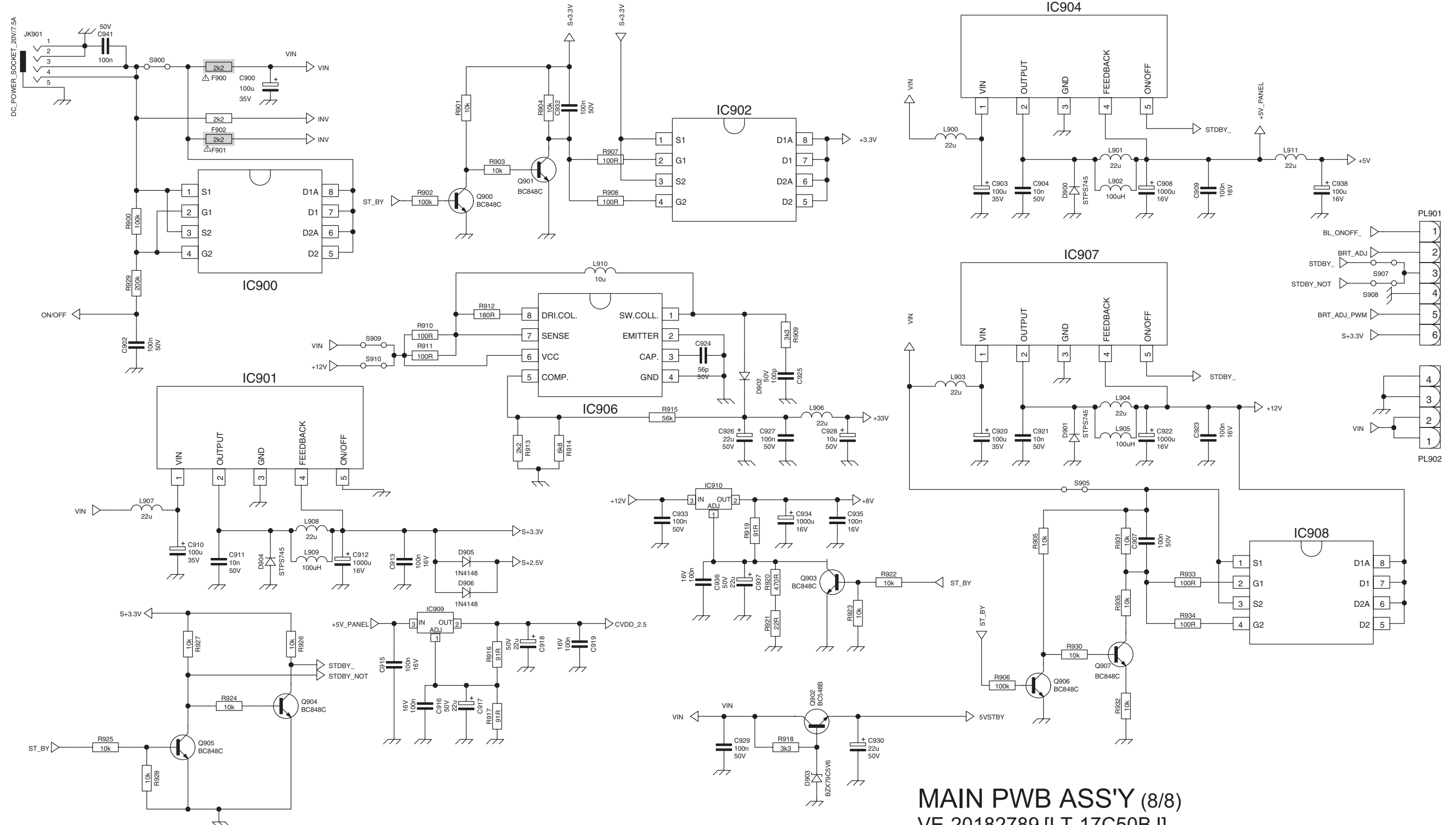


MAIN PWB CIRCUIT DIAGRAM (8/8)



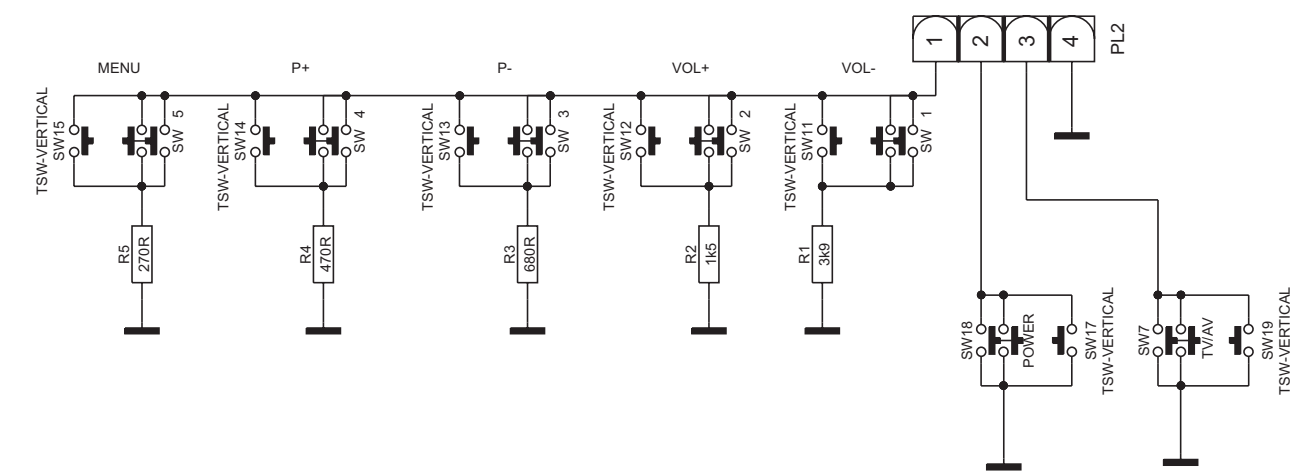
MAIN PWB ASS'Y (8/8)  
VE-20182789 [LT-17C50BJ]  
VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

MAIN PWB CIRCUIT DIAGRAM (8/8)



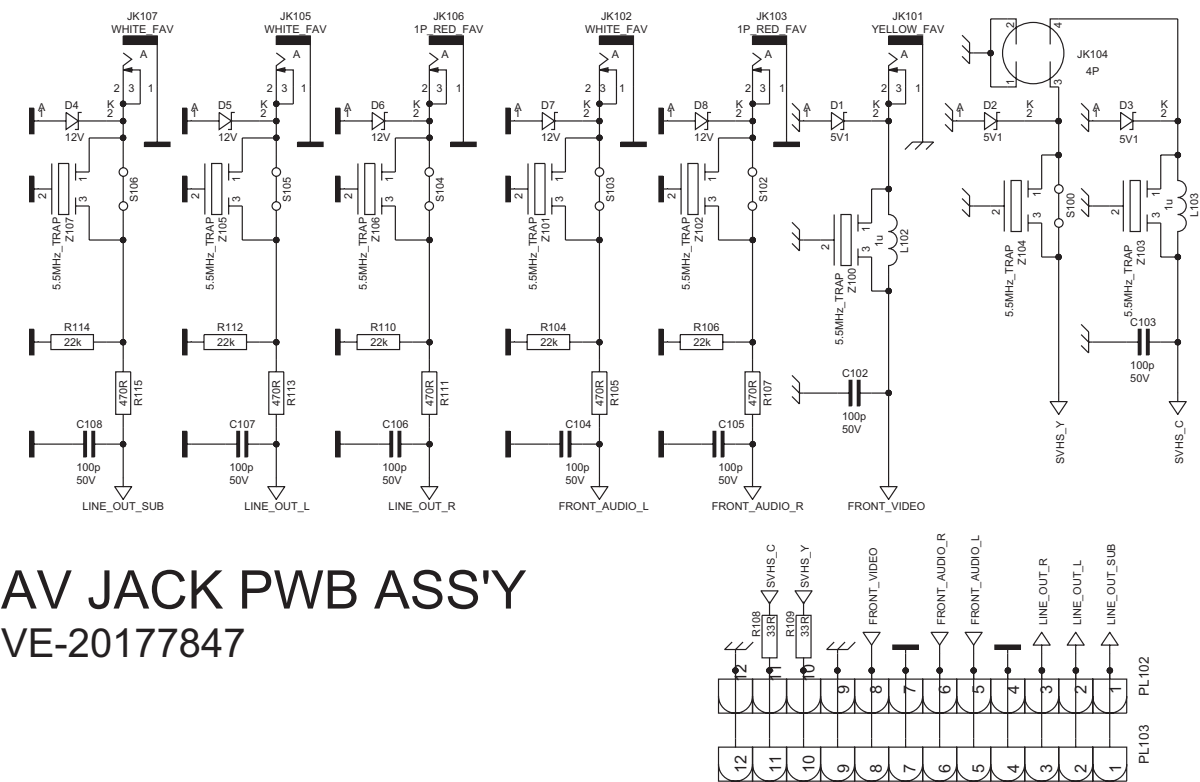
MAIN PWB ASS'Y (8/8)  
VE-20182789 [LT-17C50BJ]  
VE-20177930 [LT-17C50BU,LT-17C50BU/Z,  
LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ]

SIDE CONTROL PWB CIRCUIT DIAGRAM



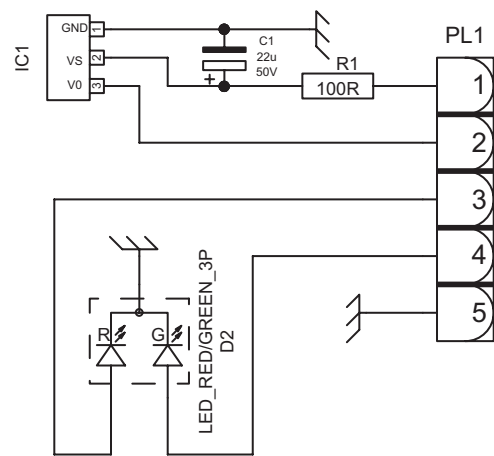
SIDE CONTROL PWB ASS'Y  
VE-20174624

AV JACK PWB CIRCUIT DIAGRAM



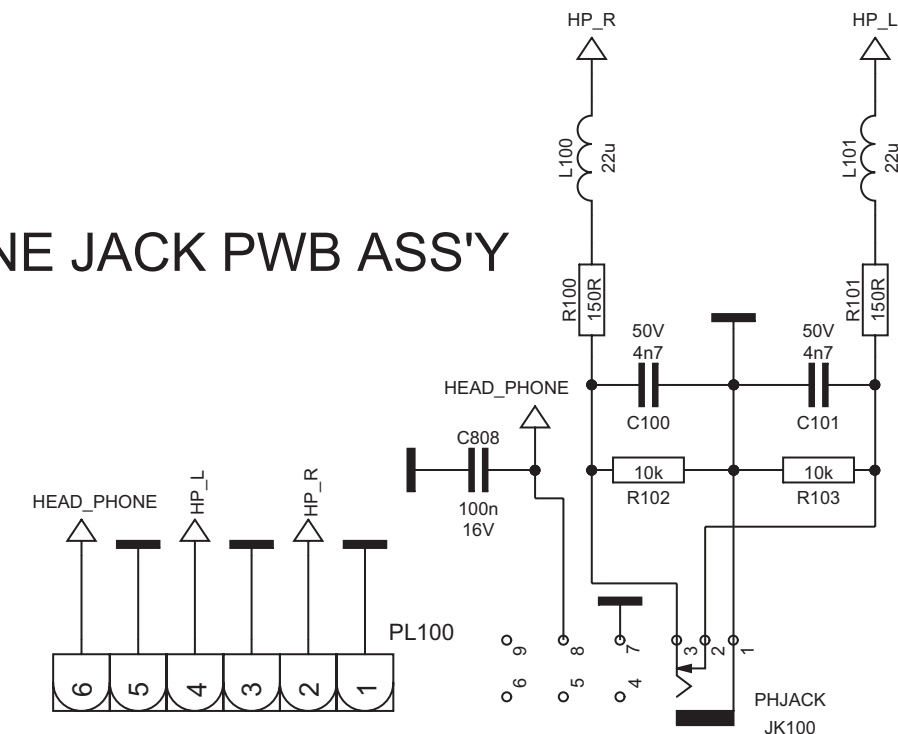
AV JACK PWB ASS'Y  
VE-20177847

LED PWB CIRCUIT DIAGRAM



LED PWB ASS'Y  
VE-20174629

HEADPHONE JACK PWB CIRCUIT DIAGRAM

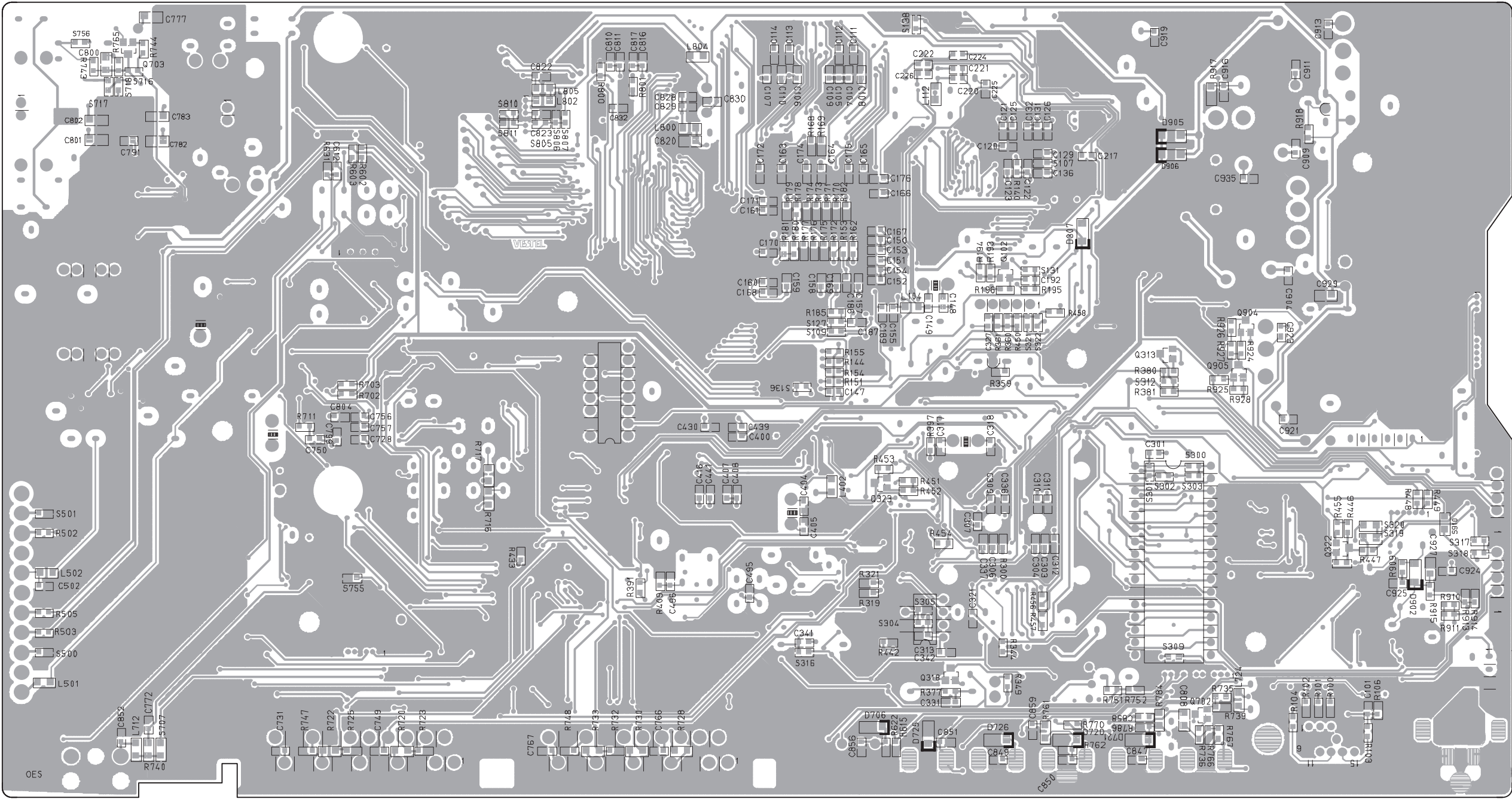


HEADPHONE JACK PWB ASS'Y  
VE-20177874



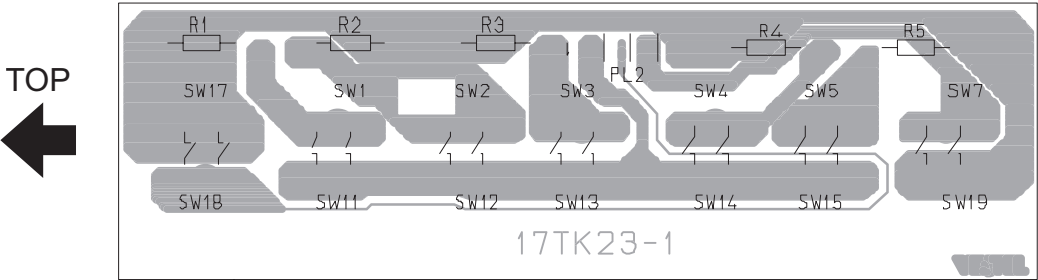
PATTERN DIAGRAMS  
MAIN PWB PATTERN [SOLDER SIDE]

TOP  
↑

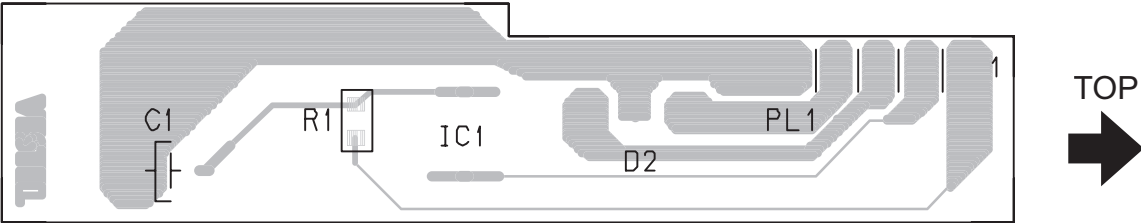




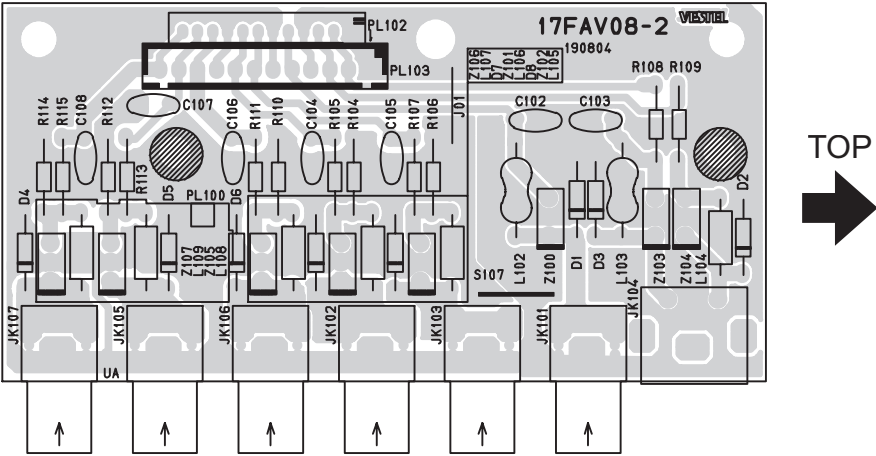
SIDE CONTEROL PWB PATTERN



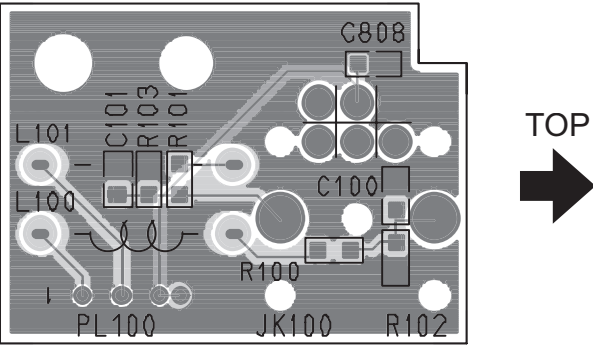
LED PWB PATTERN



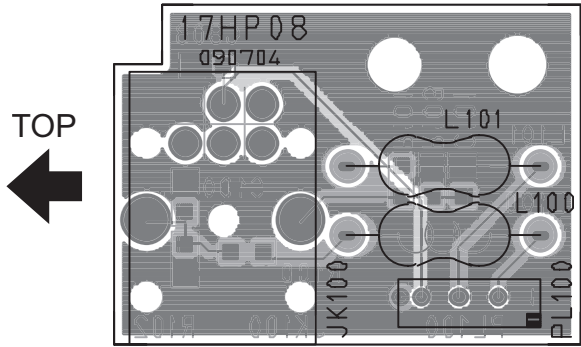
AV JACK PWB PATTERN



HEADPHONE JACK PWB PATTERN [SOLDER SIDE]



HEADPHONE JACK PWB PATTERN [PARTS SIDE]





# JVC

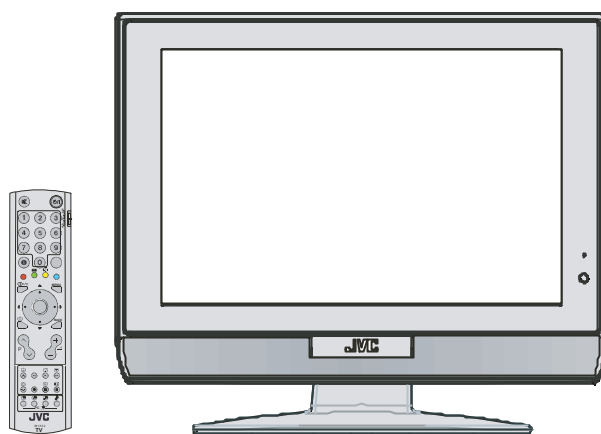
Preliminary

## SERVICE MANUAL

WIDE LCD PANEL TELEVISION

**LT-17C50BU, LT-17C50SU,  
LT-17C50BJ, LT-17C88SJ,  
LT-17C50BU<sub>1/2</sub>, LT-17C50SU<sub>1/2</sub>**

InteríArt



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| 2 | SPECIFIC SERVICE INSTRUCTIONS..... | 1-6  |
| 3 | DISASSEMBLY .....                  | 1-8  |
| 4 | ADJUSTMENT .....                   | 1-11 |
| 5 | TROUBLESHOOTING .....              | 1-11 |

# SPECIFICATION

| Items                          |   | Contents  |
|--------------------------------|---|---|
| Dimensions ( W × H × D )       |   | 46.5cm × 37.0cm × 20.0cm [Included stand]<br>46.5cm × 32.6cm × 7.2cm [TV only]  |
| Mass                           |   | 6.0kg [Included stand]<br>5.0kg [TV only]   |
| Power Input                    |   | AC100 to AC240 V, 50 Hz   |
| Power Consumption              |   | 56W (Standby: 3.0W)   |
| TV RF System                   |   | CCIR B/G, I, D/K, L   |
| Colour System                  |   | PAL / SECAM / NTSC 3.58 / NTSC 4.43 (NTSC: EXT only).   |
| Stereo System                  |   | A2 (B/G, D/K), NICAM (B/G, I, D/K, L)   |
| Teletext System                |   | FLOF (Fastext), TOP, WST (World Standard System)  |
| Receiving Frequency            | VHF<br>UHF<br>CATV  | 47MHz to 470MHz<br>470MHz to 862MHz<br>116MHz to 172MHz / 220MHz to 469MHz  |
| Intermediate Frequency         | VIF<br>SIF  | 38.9MHz(B/G, D/K, I)<br>33.4MHz(5.5MHz:B/G) / 32.9MHz(6.0MHz:I) / 32.4MHz(6.5MHz:L,D/K)   |
| Colour Sub Carrier Frequency   | PAL<br>SECAM<br>NTSC                                      | 4.43MHz<br>4.40625MHz / 4.25MHz<br>3.58MHz / 4.43MHz  |
| LCD panel                      |   | 17V-inch wide aspect (15:9)   |
| Screen Size                    |   | Diagonal : 43.3cm (H:37.1cm × V : 22.3cm)   |
| Display Pixels                 |   | Horizontal : 1280 dots × Vertical : 768 dots (W-XGA)  |
| Audio Power Output             |   | 5W + 5W(10% THD)  |
| Speaker                        |   | 3.4cm, round type × 2   |
| Aerial terminal (VHF/UHF)      |   | F-type connector, 75Ω unbalanced, coaxial   |
| EXT-1 / EXT-2 (Input / Output) |   | 21-pin Euro connector (SCART socket ) × 2   |
| EXT-3(Input)                   | Component Video<br>625p / 525p / 625i / 525i<br><br>Audio | RCA pin jack × 3<br>Y : 1V (p-p), Positive (Negative sync provided), 75 Ω<br>Cb/Cr : 0.7V(p-p), 75 Ω<br>500mV(rms) (-4dBs), high impedance, RCA pin jack × 2  |
| EXT-4 (Input)                  | S-Video<br><br>Video<br>Audio                             | Mini-DIN 4 pin × 1<br>Y: 1V (p-p), Positive (Negative sync provided), 75 Ω<br>C: 0.286V (p-p) (Burst signal), 75 Ω<br>1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1<br>500mV (rms), High impedance, RCA pin jack × 2                                |
| PC (RGB) Input                 |   | D-sub 15pin × 1<br>R/G/B : 0.7V (p-p), 75Ω<br>HD / VD : 1V (p-p) to 5V (p-p), high impedance<br>< Available signal ><br>VGA : 640 pixels × 480 pixels (Horizontal : 31.5kHz / Vertical : 60Hz)<br>XGA : 1024 pixels × 768 pixels (Horizontal : 48.4kHz / Vertical : 60Hz) |
| PC AUDIO input                 |   | 3.5mm stereo mini jack × 1  |
| Audio output                   |   | 500mV (rms), Low impedance, RCA pin jack × 2  |
| Subwoofer output               |   | More than 0 to 1000mV (rms) (+2.2dBs), low impedance (80Hz when modulated 100%), RCA pin jack × 1   |
| Headphone                      |   | 3.5mm stereo mini jack × 1  |
| Remote Control Unit            |   | RM-C1860 (AA/R6 dry cell battery × 2)   |

Design & specifications are subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\equiv$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (6) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

##### a) Dielectric Strength Test

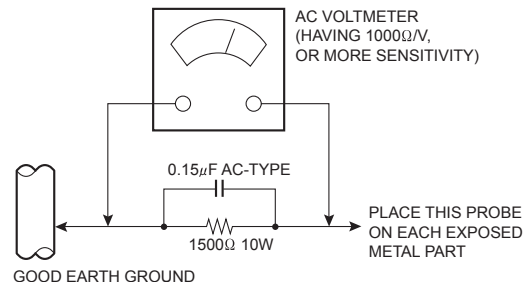
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

##### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

##### Alternate Check Method

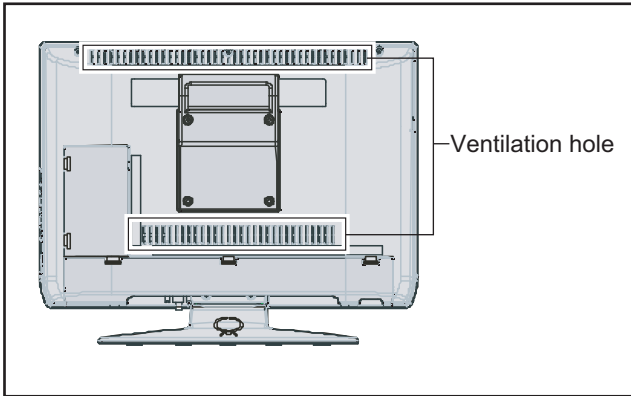
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 1.2 INSTALLATION

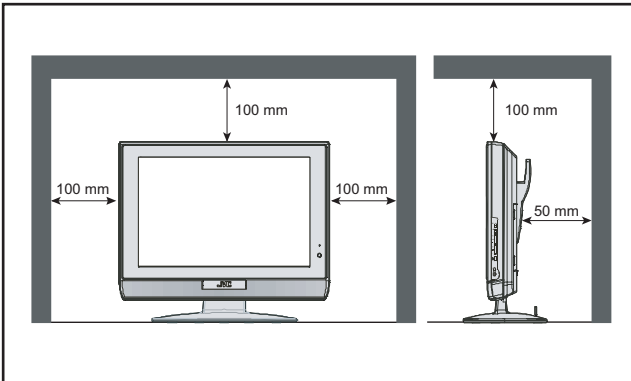
### 1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



### 1.2.2 INSTALLATION REQUIREMENTS

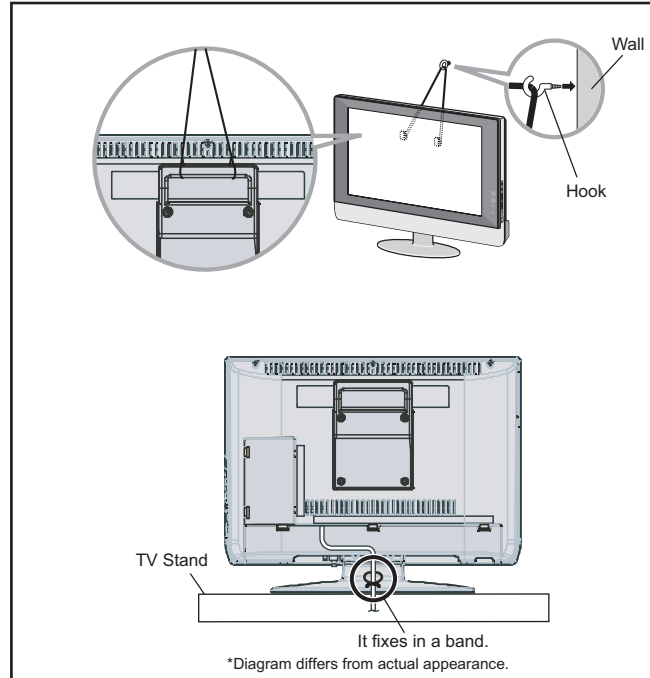
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



### 1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Use the supplied screws to firmly attach the supplied hooks (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



### 1.2.4 NOTES ON HANDLING

#### (1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

#### (2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

### 1.3 HANDLING LCD PANEL

#### 1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**  
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

- (2) **ATTACH PROTECTION SHEET TO THE FRONT**  
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

- (3) **AVOID VIBRATIONS AND IMPACTS**  
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**  
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

#### 1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

#### 1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

##### T-V LINK

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos.

##### ZOOM

This function can change the screen size according to the picture aspect ratio.

##### OFF TIMER

This function can set the TV to automatically turn off after a set time.

##### COLOUR SYSTEM

If the picture is not clear or no colour appears, change the current colour system to another colour system.

#### 2.2 MAIN DIFFERENCE LIST

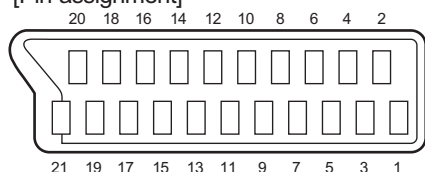
| Items          | LT-17C50BU      | LT-17C50SU | LT-17C50BU/Z                        | LT-17C50SU/Z | LT-17C50BJ      | LT-17C88SJ |
|----------------|-----------------|------------|-------------------------------------|--------------|-----------------|------------|
| CABINET COLOUR | BLACK           | SILVER     | BLACK                               | SILVER       | BLACK           | SILVER     |
| POWER CORD     | EU type(2-pin ) | ←          | SWE Type(3-pin )<br>EU type(2-pin ) | ←            | UK type(3-pin ) | ←          |

#### 2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1 / EXT-2

| Pin No. | Signal designation    | Matching value   | EXT-1         | EXT-2                 |
|---------|-----------------------|--|---------------|-----------------------|
| 1       | AUDIO R output        | 500mV(rms) (Nominal),, Low impedance                                 | Used (TV OUT) | Used (LINE OUT)       |
| 2       | AUDIO R input         | 500mV(rms) (Nominal),, High impedance                                | Used (R1)     | Used (R2)             |
| 3       | AUDIO L output        | 500mV(rms) (Nominal),, Low impedance                                 | Used (TV OUT) | Used (LINE OUT)       |
| 4       | AUDIO GND             |  | Used          | Used                  |
| 5       | GND (B)               |  | Used          | Used                  |
| 6       | AUDIO L input         | 500mV(rms) (Nominal),, High impedance                                | Used (L1)     | Used (L2)             |
| 7       | B input               | 700mV <sub>(B-W)</sub> , 75Ω   | Used          | Used                  |
| 8       | FUNCTION SW (SLOW SW) | Low : 0V-3V<br>High : 8V-12V, High impedance                         | Used          | Used                  |
| 9       | GND (G)               |  | Used          | Used                  |
| 10      | SCL / T-V LINK        |  | Not used      | Used (SCL2 / TV-LINK) |
| 11      | G input               | 700mV <sub>(B-W)</sub> , 75Ω   | Used          | Used                  |
| 12      | SDA                   |  | Not used      | Used (SDA2)           |
| 13      | GND (R)               |  | Used          | Used                  |
| 14      | GND (YS)              |  | Used          | Not used              |
| 15      | R / C input           | R : 700mV <sub>(B-W)</sub> , 75Ω<br>C : 300mV <sub>(P-P)</sub> , 75Ω | Used (R)      | Used (C2/R)           |
| 16      | Ys input (FAST SW)    | Low : 0V-0.4V, High : 1V-3V, 75Ω                                     | Used          | Used                  |
| 17      | GND (VIDEO output)    |  | Used          | Used                  |
| 18      | GND (VIDEO input)     |  | Used          | Used                  |
| 19      | VIDEO output          | 1V <sub>(P-P)</sub> (Negative sync), 75Ω                             | Used (TV OUT) | Used (LINE OUT)       |
| 20      | VIDEO / Y input       | 1V <sub>(P-P)</sub> (Negative sync), 75Ω                             | Used          | Used                  |
| 21      | COMMON GND            |  | Used          | Used                  |

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



## 2.4 TECHNICAL INFORMATION

### 2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

#### 2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

| Item             | Specifications                       | Remarks                     |
|------------------|--------------------------------------|-----------------------------|
| Displayed colour | 16777216 colours                     | 256 colours for R, G, and B |
| Brightness       | 450cd/m <sup>2</sup>                 |                             |
| Contrast ratio   | 400: 1                               |                             |
| Response time    | 25ms                                 |                             |
| View angle       | Horizontally: 176°, Vertically: 170° |                             |

#### 2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

##### ■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

##### ■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

##### ■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

## SECTION 3 DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE

#### NOTE:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

#### 3.1.1 REMOVING THE STAND UNIT

- Remove the TFT DOOR SOCKET / AV DOOR SOCKET.
  - (1) Remove the 2 screws [A], then remove the FOOT TOP COVER.
  - (2) Remove the 4 screws [B], then remove the STAND UNIT.

#### 3.1.2 REMOVING THE HANDLE

- Remove the STAND UNIT.
  - (1) Remove the 4 screws [C].
  - (2) Remove the HANDLE.

#### 3.1.3 REMOVING THE BACK COVER

- Remove the STAND UNIT.
- Remove the HANDLE.
  - (1) Remove the 5 screws [D].
  - (2) Remove the BACK COVER toward you.

#### 3.1.4 REMOVING THE FAV PWB

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
  - (1) Remove the 2 screws [E].
  - (2) Remove the FAV PWB.

#### 3.1.5 REMOVING THE BRACKET SCART

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
- Remove the FAV PWB.
  - (1) Remove the 2 screws [F].
  - (2) Remove the BRACKET SCART.

#### 3.1.6 REMOVING THE MAIN PWB

- Remove the STAND UNIT.
- Remove the HANDLE.
- Remove the BACK COVER.
- Remove the BRACKET SCART.
  - (1) Remove the 7 screws [G].
  - (2) Remove the MAIN PWB.

#### 3.1.7 REMOVING THE MAIN FRAME

- Remove the STAND UNIT / HANDLE & BACK COVER.
- Remove the BRACKET SOCKET & BRACKET SCART.
- Remove the MAIN PWB.
  - (1) Remove the 7 screws [H].
  - (2) Remove the MAIN FRAME.

#### 3.1.8 REMOVING THE INVERTER PWB / INVERTER FRAME

- Remove the STAND UNIT / HANDLE & BACK COVER.
- Remove the BRACKET SOCKET, BRACKET SCART & MAIN PWB.
  - (1) Remove the 4 screws [I], then remove the INVERTER PWB.
  - (2) Remove the 4 screws [J], then remove the INVERTER FRAME.
  - (3) Remove the INVERTER PWB & INVERTER FRAME.

#### 3.1.9 REMOVING THE LCD PANEL UNIT

- Remove the STAND UNIT, HANDLE & BACK COVER.
- Remove the BRACKET SCART & MAIN PWB.
- Remove the MAIN FRAME & INVERTER PWB / FRAME.
  - (1) Remove the 2 screws [K].
  - (2) Follow the same step when removing the other hand LCD HOLDER.
  - (3) Slightly raise the both sides of the LCD PANEL by hand from the FRONT COVER.

#### NOTE:

- Pay special attention not to break or damage on the LCD PANEL face or frame.

#### 3.1.10 REMOVING THE SPEAKERS

- Remove the STAND UNIT, HANDLE & BACK COVER.
  - (1) Remove the 4 screws [L] from each speaker.
  - (2) Remove the SPEAKER from the FRONT COVER.
  - (3) Follow the same when removing the other hand speakers.

#### 3.1.11 REMOVING THE HEADPHONE PWB

- Remove the STAND UNIT, HANDLE & BACK COVER.
  - (1) Remove the 1 screw [M].
  - (2) Remove the HEADPHONE PWB from the FRONT COVER.

#### 3.1.12 REMOVING THE LED PWB

- Remove the STAND UNIT, HANDLE & BACK COVER.
- Remove the BRACKET SOCKET, BRACKET SCART, MAIN PWB, INVERTER FRAME & MAIN FRAME.
  - (1) Remove the 1 screw [N].
  - (2) Remove the LED PWB from the FRONT COVER.

#### 3.1.13 REMOVING THE SIDE CONTROL PWB

- Remove the LED PWB / HEADPHONE PWB.
  - (1) Remove the 2 screws [O].
  - (2) Remove the SIDE CONTROL PWB with control knob.
  - (3) Remove the SIDE CONTROL PWB from control knob.



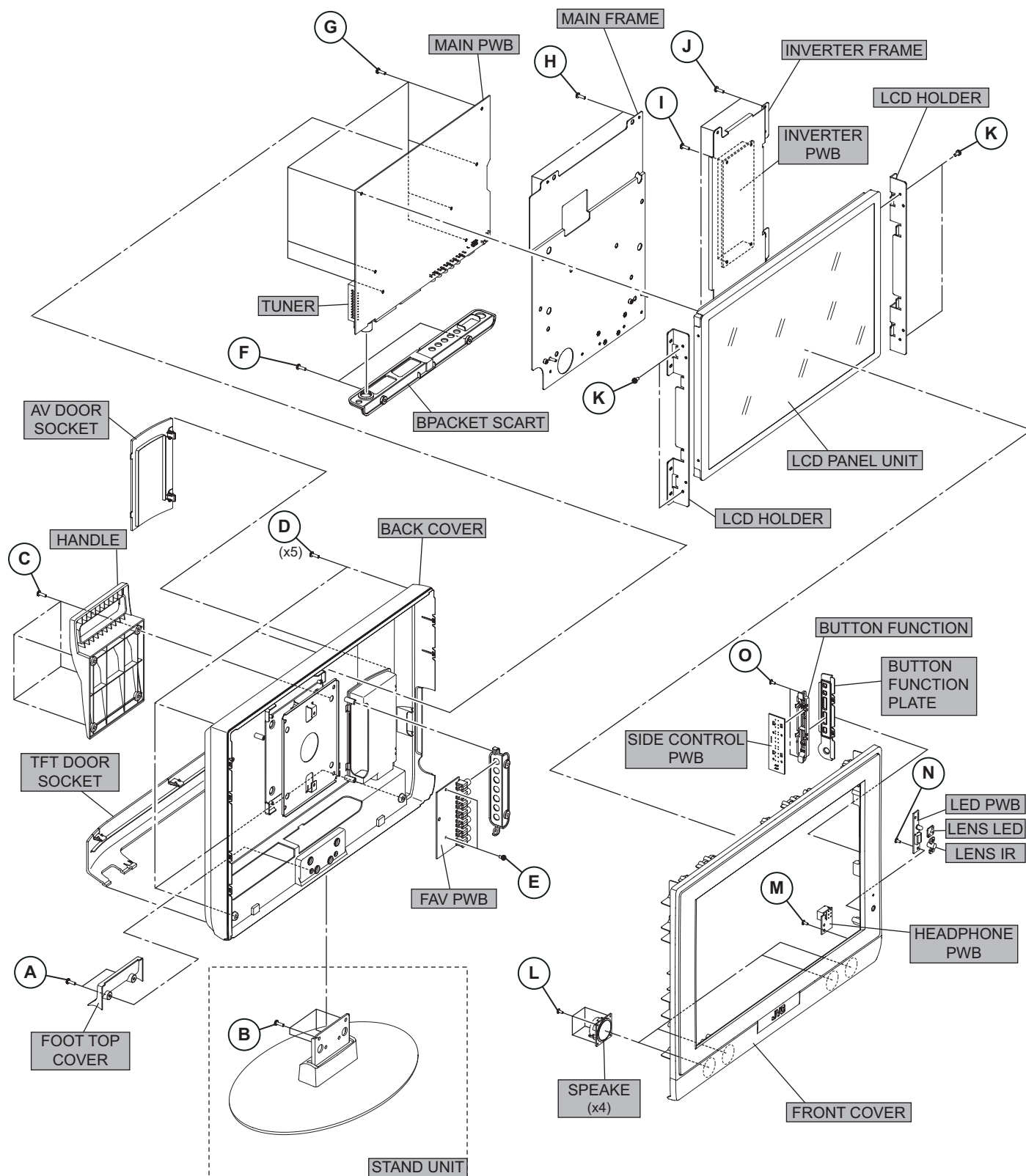


Fig.1

## 3.2 REPLACEMENT OF CHIP COMPONENT

### 3.2.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

### 3.2.2 SOLDERING IRON

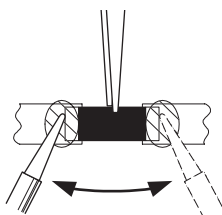
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

### 3.2.3 REPLACEMENT STEPS

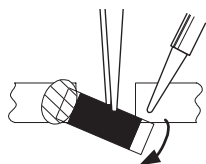
#### 1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

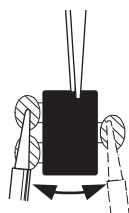


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



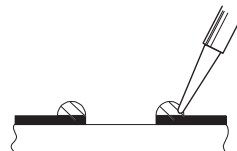
#### NOTE :

After removing the part, remove remaining solder from the pattern.

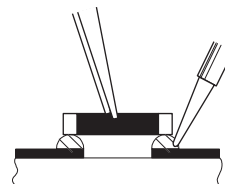
#### 2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

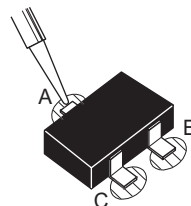


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

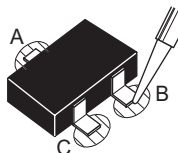


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



## **SECTION 4 ADJUSTMENT**

This service manual does not describe ADJUSTMENT.

## **SECTION 5 TROUBLESHOOTING**

This service manual does not describe TROUBLESHOOTING.



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(No.YA222)



Printed in Japan  
VPT

# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

| RESISTORS |  | CAPACITORS      |   |
|-----------|--|-----------------|---|
| CR        | Carbon Resistor                                  | C CAP.          | Ceramic Capacitor                             |
| FR        | Fusible Resistor                                 | E CAP.          | Electrolytic Capacitor                        |
| PR        | Plate Resistor                                   | M CAP.          | Mylar Capacitor                               |
| VR        | Variable Resistor                                | CH CAP.         | Chip Capacitor                                |
| HV R      | High Voltage Resistor                            | HV CAP.         | High Voltage Capacitor                        |
| MF R      | Metal Film Resistor                              | MF CAP.         | Metalized Film Capacitor                      |
| MG R      | Metal Glazed Resistor                            | MM CAP.         | Metalized Mylar Capacitor                     |
| MP R      | Metal Plate Resistor                             | MP CAP.         | Metalized Polystyrol Capacitor                |
| OM R      | Metal Oxide Film Resistor                        | PP CAP.         | Polypropylene Capacitor                       |
| CMF R     | Coating Metal Film Resistor                      | PS CAP.         | Polystyrol Capacitor                          |
| UNF R     | Non-Flammable Resistor                           | TF CAP.         | Thin Film Capacitor                           |
| CH V R    | Chip Variable Resistor                           | MPP CAP.        | Metalized Polypropylene Capacitor             |
| CH MG R   | Chip Metal Glazed Resistor                       | TAN. CAP.       | Tantalum Capacitor                            |
| COMP. R   | Composition Resistor                             | CH C CAP.       | Chip Ceramic Capacitor                        |
| LPTC R    | Linear Positive Temperature Coefficient Resistor | BP E CAP.       | Bi-Polar Electrolytic Capacitor               |
|           |  | CH AL E CAP.    | Chip Aluminum Electrolytic Capacitor          |
|           |  | CH AL BP CAP.   | Chip Aluminum Bi-Polar Capacitor              |
|           |  | CH TAN. E CAP.  | Chip Tantalum Electrolytic Capacitor          |
|           |  | CH AL BP E CAP. | Chip Tantalum Bi-Polar Electrolytic Capacitor |

| RESISTORS |     |     |      |      |      |              |              |              |              |
|-----------|-----|-----|------|------|------|--------------|--------------|--------------|--------------|
| F         | G   | J   | K    | M    | N    | R            | H            | Z            | P            |
| ±1%       | ±2% | ±5% | ±10% | ±20% | ±30% | +30%<br>-10% | +50%<br>-10% | +80%<br>-20% | +100%<br>-0% |

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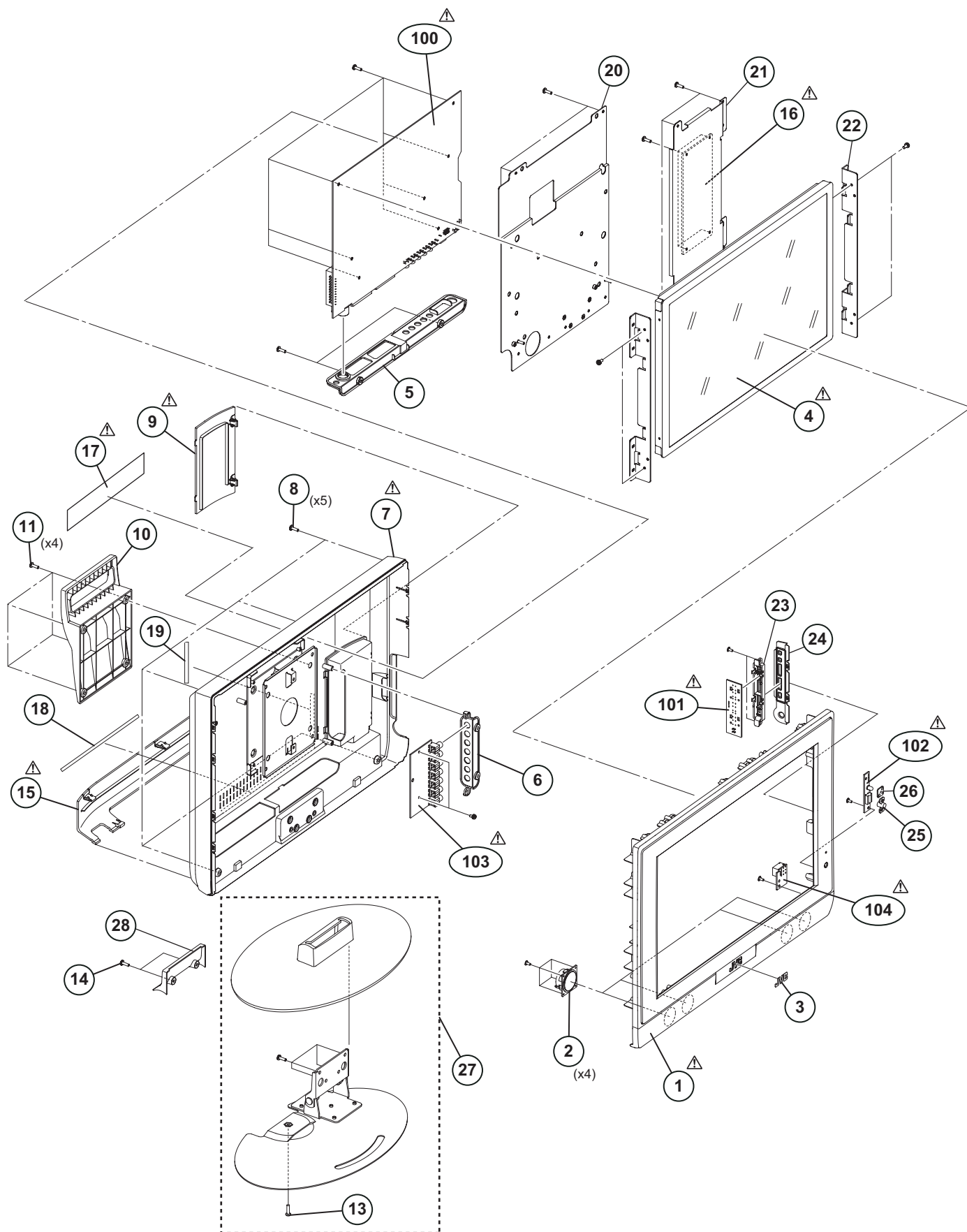
## USING P.W. BOARD & REMOTE CONTROL UNIT

| P.W.B ASS'Y         | LT-17C50BJ  | LT-17C50BU  | LT-17C50BU/Z | LT-17C50SU | LT-17C50SU/Z | LT-17C88SJ |
|---------------------|-------------|-------------|--------------|------------|--------------|------------|
| MAIN PWB            | VE-20182789 | VE-20177930 | ←            | ←          | ←            | ←          |
| SIDE CONTROL PWB    | VE-20174624 | ←           | ←            | ←          | ←            | ←          |
| LED PWB             | VE-20174629 | ←           | ←            | ←          | ←            | ←          |
| AV JACK PWB         | VE-20177847 | ←           | ←            | ←          | ←            | ←          |
| HEADPHONE PWB       | VE-20177874 | ←           | ←            | ←          | ←            | ←          |
| REMOTE CONTROL UNIT | VE-30034032 | ←           | ←            | ←          | ←            | ←          |

## EXPLODED VIEW PARTS LIST

| △ | Ref.No. | Part No.    | Part Name                  | Description | Local  |
|---|---------|-------------|----------------------------|-------------|--|
| △ | 1       | VE-20182784 | FRONT COVER                |             | LT-17C50BJ,LT-17C50BU,LT-17C50BU/Z                         |
| △ | 1       | VE-20182449 | FRONT COVER                |             | LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ                         |
|   | 2       | VE-30018628 | SPEAKER 4R 3.5W 34*34      | (x4)        |  |
|   | 3       | VE-40022214 | LOGO JVC                   |             | LT-17C50BJ   |
|   | 3       | VE-20181267 | LOGO JVC                   |             | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ |
| △ | 4       | VE-30033864 | LCD PANEL UNIT             |             |  |
|   | 5       | VE-20173333 | MAIN FRAME                 |             |  |
|   | 6       | VE-20182429 | AV JACK FRAME              |             |  |
| △ | 7       | VE-20182444 | REAR COVER                 |             |  |
|   | 8       | VE-35008081 | SCREW 3*9.5                | (x5)        |  |
| △ | 9       | VE-20182445 | DOOR SOCKET                |             |  |
|   | 10      | VE-20182430 | HANDLE                     |             |  |
|   | 11      | VE-35000185 | SCREW M4*8                 | (x4)        |  |
|   | 13      | VE-35001927 | SCREW M4*10                |             |  |
|   | 14      | VE-35008181 | SCREW 3*16                 | (x2)        |  |
| △ | 15      | VE-20182446 | BACK COVER                 |             |  |
| △ | 16      | VE-30029602 | INVERTER UNIT              |             |  |
| △ | 17      | VE-20182805 | LABEL                      |             | LT-17C50BJ   |
| △ | 17      | VE-20183553 | LABEL                      |             | LT-17C50BU   |
| △ | 17      | VE-20189934 | LABEL                      |             | LT-17C50BU/Z   |
| △ | 17      | VE-20183540 | LABEL                      |             | LT-17C50SU   |
| △ | 17      | VE-20190434 | LABEL                      |             | LT-17C50SU/Z   |
| △ | 17      | VE-20184486 | LABEL                      |             | LT-17C88SJ   |
|   | 18      | VE-50056528 | LABEL DV 12V W/VGA         |             |  |
|   | 19      | VE-50056530 | LABEL AUDIO OUT SUB WOOFER |             |  |
|   | 20      | VE-35009468 | MAIN FRAME                 |             |  |
|   | 21      | VE-35011446 | INVERTER FRAME             |             |  |
|   | 22      | VE-35009463 | LCD HOLDER                 |             |  |
|   | 23      | VE-20182421 | BUTTON FUNCTION            |             |  |
|   | 24      | VE-20170335 | BUTTON FUNCTION PLATE      |             |  |
|   | 25      | VE-20182420 | LENS IR                    |             |  |
|   | 26      | VE-20170341 | LENS LED                   |             |  |
|   | 27      | VE-20174417 | FOOT ASSY                  |             |  |
|   | 28      | VE-20182448 | FOOT TOP COVER             |             |  |
| △ | 100     | VE-20182789 | MAIN PWB                   |             | LT-17C50BJ   |
| △ | 100     | VE-20177930 | MAIN PWB                   |             | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ |
| △ | 101     | VE-20174624 | SIDE CONTROL PWB           |             |  |
| △ | 102     | VE-20174629 | LED PWB                    |             |  |
| △ | 103     | VE-20177847 | AV JACK PWB                |             |  |
| △ | 104     | VE-20177874 | HEADPHONE JACK PWB         |             |  |

# EXPLODED VIEW



# PRINTED WIRING BOARD PARTS LIST [LT-17C50BJ]

| △Ref No. | Part No.    | Part Name  | Description Local | △Ref No. | Part No.    | Part Name     | Description Local |
|----------|-------------|------------|-------------------|----------|-------------|---------------|-------------------|
| IC1      | VE-30001670 | IC         |                   | Q601     | VE-30001457 | TRANSISTOR    |                   |
| IC100    | VE-30020865 | IC         |                   | Q601     | VE-30001457 | TRANSISTOR    |                   |
| IC101    | VE-30032066 | IC         |                   | Q602     | VE-30001457 | TRANSISTOR    |                   |
| IC102    | VE-30018006 | IC         |                   | Q602     | VE-30001457 | TRANSISTOR    |                   |
| IC104    | VE-30019132 | IC         |                   | Q603     | VE-30001457 | TRANSISTOR    |                   |
| IC105    | VE-30034805 | IC         |                   | Q603     | VE-30001457 | TRANSISTOR    |                   |
| IC106    | VE-30017956 | IC         |                   | Q700     | VE-30001458 | TRANSISTOR    |                   |
| IC107    | VE-30019372 | IC         |                   | Q700     | VE-30001458 | TRANSISTOR    |                   |
| IC109    | VE-30010822 | IC         |                   | Q701     | VE-30001457 | TRANSISTOR    |                   |
| IC109    | VE-30010822 | IC         |                   | Q701     | VE-30001457 | TRANSISTOR    |                   |
| IC300    | VE-30001853 | IC         |                   | Q702     | VE-30001457 | TRANSISTOR    |                   |
| IC300    | VE-30018652 | IC         |                   | Q702     | VE-30001457 | TRANSISTOR    |                   |
| IC301    | VE-20172473 | IC(MICOM)  | (SERVICE)         | Q703     | VE-30001457 | TRANSISTOR    |                   |
| IC302    | VE-20182788 | IC(MEMORY) | (SERVICE)         | Q703     | VE-30001457 | TRANSISTOR    |                   |
| IC400    | VE-30015059 | IC         |                   | Q704     | VE-30001457 | TRANSISTOR    |                   |
| IC402    | VE-30004999 | IC         |                   | Q704     | VE-30001457 | TRANSISTOR    |                   |
| IC403    | VE-30019372 | IC         |                   | Q705     | VE-30001457 | TRANSISTOR    |                   |
| IC500    | VE-30021082 | IC         |                   | Q705     | VE-30001457 | TRANSISTOR    |                   |
| IC600    | VE-30013686 | IC         |                   | Q706     | VE-30001457 | TRANSISTOR    |                   |
| IC700    | VE-30018263 | IC         |                   | Q706     | VE-30001457 | TRANSISTOR    |                   |
| IC701    | VE-30010024 | IC         |                   | Q708     | VE-30001458 | TRANSISTOR    |                   |
| IC701    | VE-30010024 | IC         |                   | Q708     | VE-30001458 | TRANSISTOR    |                   |
| IC702    | VE-30027663 | IC         |                   | Q709     | VE-30001457 | TRANSISTOR    |                   |
| IC705    | VE-30010822 | IC         |                   | Q709     | VE-30001457 | TRANSISTOR    |                   |
| IC705    | VE-30010822 | IC         |                   | Q900     | VE-30001457 | TRANSISTOR    |                   |
| IC800    | VE-30017847 | IC         |                   | Q900     | VE-30001457 | TRANSISTOR    |                   |
| IC901    | VE-30027613 | IC         |                   | Q901     | VE-30001457 | TRANSISTOR    |                   |
| IC902    | VE-30014344 | TRANSISTOR |                   | Q901     | VE-30001457 | TRANSISTOR    |                   |
| IC904    | VE-30027612 | IC         |                   | Q902     | VE-30001454 | TRANSISTOR    |                   |
| IC906    | VE-30018326 | IC         |                   | Q902     | VE-30001454 | TRANSISTOR    |                   |
| IC908    | VE-30014344 | TRANSISTOR |                   | Q904     | VE-30001457 | TRANSISTOR    |                   |
| IC909    | VE-30007739 | IC         |                   | Q904     | VE-30001457 | TRANSISTOR    |                   |
| IC910    | VE-30007739 | IC         |                   | Q905     | VE-30001457 | TRANSISTOR    |                   |
| IC910    | VE-30007739 | IC         |                   | Q905     | VE-30001457 | TRANSISTOR    |                   |
|          |             |            |                   | Q906     | VE-30001457 | TRANSISTOR    |                   |
|          |             |            |                   | Q906     | VE-30001457 | TRANSISTOR    |                   |
|          |             |            |                   | Q907     | VE-30001457 | TRANSISTOR    |                   |
|          |             |            |                   | Q907     | VE-30001457 | TRANSISTOR    |                   |
| Q100     | VE-30001457 | TRANSISTOR |                   | D1       | VE-30016020 | DIODE ZENER   |                   |
| Q100     | VE-30001457 | TRANSISTOR |                   | D2       | VE-30019678 | LED RED/GREEN |                   |
| Q101     | VE-30034725 | TRANSISTOR |                   | D100     | VE-30001285 | DIODE         |                   |
| Q103     | VE-30001457 | TRANSISTOR |                   | D100     | VE-30001285 | DIODE         |                   |
| Q103     | VE-30001457 | TRANSISTOR |                   | D101     | VE-30001285 | DIODE         |                   |
| Q104     | VE-30001457 | TRANSISTOR |                   | D101     | VE-30001285 | DIODE         |                   |
| Q104     | VE-30001457 | TRANSISTOR |                   | D103     | VE-30007169 | DIODE         |                   |
| Q105     | VE-30001457 | TRANSISTOR |                   | D103     | VE-30007169 | DIODE         |                   |
| Q105     | VE-30001457 | TRANSISTOR |                   | D105     | VE-30007169 | DIODE         |                   |
| Q300     | VE-30001458 | TRANSISTOR |                   | D105     | VE-30007169 | DIODE         |                   |
| Q300     | VE-30001458 | TRANSISTOR |                   | D107     | VE-30007169 | DIODE         |                   |
| Q301     | VE-30001457 | TRANSISTOR |                   | D107     | VE-30007169 | DIODE         |                   |
| Q301     | VE-30001457 | TRANSISTOR |                   | D108     | VE-30025773 | DIODE ZENER   |                   |
| Q302     | VE-30001457 | TRANSISTOR |                   | D109     | VE-30025773 | DIODE ZENER   |                   |
| Q302     | VE-30001457 | TRANSISTOR |                   | D111     | VE-30007169 | DIODE         |                   |
| Q303     | VE-30001457 | TRANSISTOR |                   | D111     | VE-30007169 | DIODE         |                   |
| Q303     | VE-30001457 | TRANSISTOR |                   | D112     | VE-30007169 | DIODE         |                   |
| Q304     | VE-30001457 | TRANSISTOR |                   | D112     | VE-30007169 | DIODE         |                   |
| Q304     | VE-30001457 | TRANSISTOR |                   | D114     | VE-30007763 | DIODE ZENER   |                   |
| Q305     | VE-30001457 | TRANSISTOR |                   | D114     | VE-30007763 | DIODE ZENER   |                   |
| Q305     | VE-30001457 | TRANSISTOR |                   | D300     | VE-30012412 | DIODE ZENER   |                   |
| Q306     | VE-30001457 | TRANSISTOR |                   | D300     | VE-30012412 | DIODE ZENER   |                   |
| Q306     | VE-30001457 | TRANSISTOR |                   | D301     | VE-30001285 | DIODE         |                   |
| Q307     | VE-30001457 | TRANSISTOR |                   | D301     | VE-30001285 | DIODE         |                   |
| Q307     | VE-30001457 | TRANSISTOR |                   | D302     | VE-30001285 | DIODE         |                   |
| Q308     | VE-30001458 | TRANSISTOR |                   | D302     | VE-30001285 | DIODE         |                   |
| Q308     | VE-30001458 | TRANSISTOR |                   | D305     | VE-30001285 | DIODE         |                   |
| Q309     | VE-30001457 | TRANSISTOR |                   | D305     | VE-30001285 | DIODE         |                   |
| Q309     | VE-30001457 | TRANSISTOR |                   | D306     | VE-30001285 | DIODE         |                   |
| Q311     | VE-30001423 | TRANSISTOR |                   | D306     | VE-30001285 | DIODE         |                   |
| Q311     | VE-30001423 | TRANSISTOR |                   | D307     | VE-30001285 | DIODE         |                   |
| Q313     | VE-30001457 | TRANSISTOR |                   | D307     | VE-30001285 | DIODE         |                   |
| Q313     | VE-30001457 | TRANSISTOR |                   | D307     | VE-30001285 | DIODE         |                   |
| Q314     | VE-30001457 | TRANSISTOR |                   | D500     | VE-30001285 | DIODE         |                   |
| Q314     | VE-30001457 | TRANSISTOR |                   | D500     | VE-30001285 | DIODE         |                   |
| Q315     | VE-30001457 | TRANSISTOR |                   | D600     | VE-30007760 | DIODE ZENER   |                   |
| Q315     | VE-30001457 | TRANSISTOR |                   | D600     | VE-30007760 | DIODE ZENER   |                   |
| Q316     | VE-30001457 | TRANSISTOR |                   | D700     | VE-30007761 | DIODE ZENER   |                   |
| Q316     | VE-30001457 | TRANSISTOR |                   | D700     | VE-30007761 | DIODE ZENER   |                   |
| Q317     | VE-30001457 | TRANSISTOR |                   | D701     | VE-30001285 | DIODE         |                   |
| Q317     | VE-30001457 | TRANSISTOR |                   | D701     | VE-30001285 | DIODE         |                   |
| Q400     | VE-30001457 | TRANSISTOR |                   | D702     | VE-30001285 | DIODE         |                   |
| Q400     | VE-30001457 | TRANSISTOR |                   | D702     | VE-30001285 | DIODE         |                   |
| Q501     | VE-30001457 | TRANSISTOR |                   | D703     | VE-30001285 | DIODE         |                   |
| Q501     | VE-30001457 | TRANSISTOR |                   | D703     | VE-30001285 | DIODE         |                   |
| Q600     | VE-30001457 | TRANSISTOR |                   | D704     | VE-30007760 | DIODE ZENER   |                   |
| Q600     | VE-30001457 | TRANSISTOR |                   |          |             |               |                   |



| △Ref No. | Part No.    | Part Name   | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|-------------|-------------------|----------|-------------|-----------|-------------------|
| D704     | VE-30007760 | DIODE ZENER |                   | C129     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D706     | VE-30007760 | DIODE ZENER |                   | C130     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D706     | VE-30007760 | DIODE ZENER |                   | C131     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D707     | VE-30007760 | DIODE ZENER |                   | C132     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| D707     | VE-30007760 | DIODE ZENER |                   | C133     | VE-30012587 | CAP SMD   | 3.3NF 50V K       |
| D708     | VE-30007760 | DIODE ZENER |                   | C134     | VE-30012605 | CAP SMD   | 39NF 50V M        |
| D708     | VE-30007760 | DIODE ZENER |                   | C136     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D709     | VE-30007760 | DIODE ZENER |                   | C137     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D709     | VE-30007760 | DIODE ZENER |                   | C138     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D710     | VE-30007760 | DIODE ZENER |                   | C138     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D710     | VE-30007760 | DIODE ZENER |                   | C139     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D711     | VE-30007760 | DIODE ZENER |                   | C139     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D711     | VE-30007760 | DIODE ZENER |                   | C146     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| D712     | VE-30007760 | DIODE ZENER |                   | C146     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| D712     | VE-30007760 | DIODE ZENER |                   | C147     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D713     | VE-30007760 | DIODE ZENER |                   | C148     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    |
| D713     | VE-30007760 | DIODE ZENER |                   | C149     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    |
| D714     | VE-30007760 | DIODE ZENER |                   | C150     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D714     | VE-30007760 | DIODE ZENER |                   | C151     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D715     | VE-30007760 | DIODE ZENER |                   | C152     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D715     | VE-30007760 | DIODE ZENER |                   | C153     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D716     | VE-30007760 | DIODE ZENER |                   | C154     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D716     | VE-30007760 | DIODE ZENER |                   | C155     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D717     | VE-30007760 | DIODE ZENER |                   | C156     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D717     | VE-30007760 | DIODE ZENER |                   | C156     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D719     | VE-30001285 | DIODE       |                   | C157     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D719     | VE-30001285 | DIODE       |                   | C158     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D720     | VE-30007760 | DIODE ZENER |                   | C159     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D720     | VE-30007760 | DIODE ZENER |                   | C160     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D721     | VE-30007760 | DIODE ZENER |                   | C161     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D721     | VE-30007760 | DIODE ZENER |                   | C162     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D722     | VE-30007760 | DIODE ZENER |                   | C162     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D722     | VE-30007760 | DIODE ZENER |                   | C163     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D723     | VE-30018574 | DIODE       |                   | C164     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D725     | VE-30009699 | DIODE ZENER |                   | C165     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D725     | VE-30009699 | DIODE ZENER |                   | C166     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D726     | VE-30009699 | DIODE ZENER |                   | C167     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D726     | VE-30009699 | DIODE ZENER |                   | C168     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D900     | VE-30001313 | DIODE       |                   | C169     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D902     | VE-30001285 | DIODE       |                   | C170     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D902     | VE-30001285 | DIODE       |                   | C171     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D903     | VE-30001343 | DIODE ZENER |                   | C172     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D903     | VE-30001343 | DIODE ZENER |                   | C174     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D904     | VE-30001313 | DIODE       |                   | C175     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| D905     | VE-30001285 | DIODE       |                   | C176     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| D905     | VE-30001285 | DIODE       |                   | C177     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D906     | VE-30001285 | DIODE       |                   | C177     | VE-30000371 | CAP EL    | 22UF 50V M        |
| D906     | VE-30001285 | DIODE       |                   | C178     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C1       | VE-30000371 | CAP EL      | 22UF 50V M        | C183     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C100     | VE-30012566 | CAP SMD     | 22PF 50V J        | C185     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C100     | VE-30012589 | CAP SMD     | 4.7NF 50V K       | C185     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C101     | VE-30012566 | CAP SMD     | 22PF 50V J        | C187     | VE-30012573 | CAP SMD   | 47PF 50V J        |
| C101     | VE-30012589 | CAP SMD     | 4.7NF 50V K       | C189     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C102     | VE-30000190 | CAP CER     | 100PF 50V J       | C190     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C102     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C217     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C103     | VE-30000190 | CAP CER     | 100PF 50V J       | C218     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    |
| C104     | VE-30000190 | CAP CER     | 100PF 50V J       | C219     | VE-30000392 | CAP EL    | 0.33UF 50V M      |
| C104     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C219     | VE-30000392 | CAP EL    | 0.33UF 50V M      |
| C105     | VE-30000190 | CAP CER     | 100PF 50V J       | C300     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C105     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C300     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C106     | VE-30000190 | CAP CER     | 100PF 50V J       | C301     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C106     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C302     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C107     | VE-30000190 | CAP CER     | 100PF 50V J       | C302     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C107     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C303     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C108     | VE-30000190 | CAP CER     | 100PF 50V J       | C304     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C108     | VE-30012582 | CAP SMD     | 10NF 50V K R      | C305     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C109     | VE-30012582 | CAP SMD     | 10NF 50V K R      | C305     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C110     | VE-30012582 | CAP SMD     | 10NF 50V K R      | C306     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C111     | VE-30012582 | CAP SMD     | 10NF 50V K R      | C307     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C112     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C308     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C113     | VE-30012582 | CAP SMD     | 10NF 50V K R      | C308     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C114     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C309     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C115     | VE-30000371 | CAP EL      | 22UF 50V M        | C310     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C115     | VE-30000371 | CAP EL      | 22UF 50V M        | C311     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C116     | VE-30012590 | CAP SMD     | 47NF 50V K        | C312     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C117     | VE-30012590 | CAP SMD     | 47NF 50V K        | C313     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C118     | VE-30012590 | CAP SMD     | 47NF 50V K        | C314     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C120     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C314     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C121     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C315     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C122     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C316     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C123     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C316     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C124     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C317     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C125     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C318     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C126     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C319     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C127     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C319     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C128     | VE-30016654 | CAP SMD     | 100NF 16V K R     | C320     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
|          |             |             |                   | C321     | VE-30016654 | CAP SMD   | 100NF 16V K R     |

| △Ref No. | Part No.    | Part Name | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|-----------|-------------------|----------|-------------|-----------|-------------------|
| C324     | VE-30000371 | CAP EL    | 22UF 50V M        | C505     | VE-30000400 | CAP EL    | 47UF 50V M        |
| C324     | VE-30000371 | CAP EL    | 22UF 50V M        | C506     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C325     | VE-30012611 | CAP SMD   | 120PF 50V J       | C507     | VE-30012572 | CAP SMD   | 390PF 50V J       |
| C326     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C508     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C327     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C508     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C328     | VE-30000393 | CAP EL    | 3.3UF 50V M       | C509     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C328     | VE-30000393 | CAP EL    | 3.3UF 50V M       | C510     | VE-30012566 | CAP SMD   | 22PF 50V J        |
| C332     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C511     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C334     | VE-30000354 | CAP EL    | 100UF 35V M       | C511     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C334     | VE-30000354 | CAP EL    | 100UF 35V M       | C512     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C335     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C513     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C336     | VE-30012611 | CAP SMD   | 120PF 50V J       | C514     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C337     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C515     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C400     | VE-30012609 | CAP SMD   | 68NF 50V K        | C517     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C401     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C520     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C402     | VE-30012590 | CAP SMD   | 47NF 50V K        | C522     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C403     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C522     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C404     | VE-30012613 | CAP SMD   | 3.3PF 50V C       | C523     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C405     | VE-30012613 | CAP SMD   | 3.3PF 50V C       | C523     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C406     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C524     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C406     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C525     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C407     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C525     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C408     | VE-30012572 | CAP SMD   | 390PF 50V J       | C526     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C409     | VE-30000345 | CAP EL    | 10UF 50V M        | C527     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C409     | VE-30000345 | CAP EL    | 10UF 50V M        | C527     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C410     | VE-30012590 | CAP SMD   | 47NF 50V K        | C600     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C411     | VE-30000068 | CAP MKT   | 1NF 63V K         | C600     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C411     | VE-30000068 | CAP MKT   | 1NF 63V K         | C601     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C412     | VE-30007082 | CAP MKT   | 680NF 63V J       | C601     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C412     | VE-30007082 | CAP MKT   | 680NF 63V J       | C602     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C413     | VE-30007082 | CAP MKT   | 680NF 63V J       | C602     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C413     | VE-30007082 | CAP MKT   | 680NF 63V J       | C603     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C414     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C603     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C415     | VE-30000345 | CAP EL    | 10UF 50V M        | C604     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C415     | VE-30000345 | CAP EL    | 10UF 50V M        | C605     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C416     | VE-30012590 | CAP SMD   | 47NF 50V K        | C606     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C420     | VE-30000294 | CAP SMD   | 100NF 50V K       | C606     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C420     | VE-30000294 | CAP SMD   | 100NF 50V K       | C607     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C421     | VE-30000294 | CAP SMD   | 100NF 50V K       | C608     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C421     | VE-30000294 | CAP SMD   | 100NF 50V K       | C609     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C422     | VE-30000294 | CAP SMD   | 100NF 50V K       | C610     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C422     | VE-30000294 | CAP SMD   | 100NF 50V K       | C611     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C424     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C612     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C425     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C613     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C425     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C614     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C426     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C700     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C427     | VE-30012572 | CAP SMD   | 390PF 50V J       | C701     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C428     | VE-30012590 | CAP SMD   | 47NF 50V K        | C702     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C429     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C702     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C430     | VE-30012609 | CAP SMD   | 68NF 50V K        | C703     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C431     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C704     | VE-30012589 | CAP SMD   | 4.7NF 50V K       |
| C431     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C705     | VE-30012589 | CAP SMD   | 4.7NF 50V K       |
| C432     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C706     | VE-30012589 | CAP SMD   | 4.7NF 50V K       |
| C432     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C707     | VE-30012589 | CAP SMD   | 4.7NF 50V K       |
| C433     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C708     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C433     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C709     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C434     | VE-30012570 | CAP SMD   | 330PF 50V J       | C709     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C435     | VE-30012570 | CAP SMD   | 330PF 50V J       | C710     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C436     | VE-30012570 | CAP SMD   | 330PF 50V J       | C710     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C437     | VE-30007082 | CAP MKT   | 680NF 63V J       | C711     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C437     | VE-30007082 | CAP MKT   | 680NF 63V J       | C711     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C438     | VE-30000371 | CAP EL    | 22UF 50V M        | C712     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C438     | VE-30000371 | CAP EL    | 22UF 50V M        | C712     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C439     | VE-30012609 | CAP SMD   | 68NF 50V K        | C713     | VE-30012576 | CAP SMD   | 56PF 50V J CH     |
| C440     | VE-30000352 | CAP EL    | 100UF 16V M       | C714     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C440     | VE-30000352 | CAP EL    | 100UF 16V M       | C715     | VE-30000393 | CAP EL    | 3.3UF 50V M       |
| C441     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C715     | VE-30000393 | CAP EL    | 3.3UF 50V M       |
| C442     | VE-30012569 | CAP SMD   | 33PF 50V J        | C716     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C443     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C716     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C485     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C717     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C486     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C717     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C487     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C718     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C488     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C718     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C489     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C719     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C490     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C720     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C491     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C721     | VE-30012565 | CAP SMD   | 1.8PF 50V J CH    |
| C492     | VE-30000345 | CAP EL    | 10UF 50V M        | C722     | VE-30012565 | CAP SMD   | 1.8PF 50V J CH    |
| C492     | VE-30000345 | CAP EL    | 10UF 50V M        | C723     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C493     | VE-30000294 | CAP SMD   | 100NF 50V K       | C724     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C493     | VE-30000294 | CAP SMD   | 100NF 50V K       | C725     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C494     | VE-30012569 | CAP SMD   | 33PF 50V J        | C726     | VE-30012576 | CAP SMD   | 56PF 50V J CH     |
| C495     | VE-30012569 | CAP SMD   | 33PF 50V J        | C727     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C496     | VE-30012569 | CAP SMD   | 33PF 50V J        | C728     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C502     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C729     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C503     | VE-30000345 | CAP EL    | 10UF 50V M        | C730     | VE-30012607 | CAP SMD   | 150PF 50V J       |
| C503     | VE-30000345 | CAP EL    | 10UF 50V M        | C731     | VE-30012607 | CAP SMD   | 150PF 50V J       |
| C505     | VE-30000400 | CAP EL    | 47UF 50V M        | C732     | VE-30000315 | CAP SMD   | 220NF 25V Z       |

| △Ref No. | Part No.    | Part Name | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|-----------|-------------------|----------|-------------|-----------|-------------------|
| C732     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C796     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C733     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C797     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C733     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C797     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C734     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C798     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C735     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C799     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| C736     | VE-30000352 | CAP EL    | 100UF 16V M       | C801     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C736     | VE-30000352 | CAP EL    | 100UF 16V M       | C801     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C737     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C802     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C738     | VE-30000352 | CAP EL    | 100UF 16V M       | C802     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C738     | VE-30000352 | CAP EL    | 100UF 16V M       | C803     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C739     | VE-30000362 | CAP EL    | 1UF 50V M         | C803     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C739     | VE-30000362 | CAP EL    | 1UF 50V M         | C804     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C740     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C805     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C741     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C806     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C742     | VE-30000371 | CAP EL    | 22UF 50V M        | C806     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C742     | VE-30000371 | CAP EL    | 22UF 50V M        | C807     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C743     | VE-30000371 | CAP EL    | 22UF 50V M        | C808     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C743     | VE-30000371 | CAP EL    | 22UF 50V M        | C810     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C744     | VE-30000371 | CAP EL    | 22UF 50V M        | C811     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C744     | VE-30000371 | CAP EL    | 22UF 50V M        | C812     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C745     | VE-30000371 | CAP EL    | 22UF 50V M        | C812     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C745     | VE-30000371 | CAP EL    | 22UF 50V M        | C814     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C746     | VE-30012567 | CAP SMD   | 220PF 50V J       | C815     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C747     | VE-30012574 | CAP SMD   | 470PF 50V J       | C816     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C748     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C817     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C749     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C818     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C750     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C820     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C751     | VE-30000407 | CAP EL    | 470UF 16V M       | C820     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C751     | VE-30000407 | CAP EL    | 470UF 16V M       | C823     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C752     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C823     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C753     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C824     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C754     | VE-30012574 | CAP SMD   | 470PF 50V J       | C824     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C755     | VE-30012574 | CAP SMD   | 470PF 50V J       | C825     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C756     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C827     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C757     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C827     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C758     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C828     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C758     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C829     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C759     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C830     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C759     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C831     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C760     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C831     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C761     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C832     | VE-30012562 | CAP SMD   | 15PF 50V J        |
| C762     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C833     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C763     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C834     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C764     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C835     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C765     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C837     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C766     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C839     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C767     | VE-30012607 | CAP SMD   | 150PF 50V J       | C840     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C768     | VE-30012607 | CAP SMD   | 150PF 50V J       | C846     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C769     | VE-30000371 | CAP EL    | 22UF 50V M        | C846     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C769     | VE-30000371 | CAP EL    | 22UF 50V M        | C847     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C770     | VE-30000371 | CAP EL    | 22UF 50V M        | C848     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C770     | VE-30000371 | CAP EL    | 22UF 50V M        | C849     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C771     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C850     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C771     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C851     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C772     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C852     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C773     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C853     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C773     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C858     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C774     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C859     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C775     | VE-30000345 | CAP EL    | 10UF 50V M        | C860     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C775     | VE-30000345 | CAP EL    | 10UF 50V M        | C861     | VE-30020694 | CAP SMD   | 1UF 16V Z         |
| C776     | VE-30000294 | CAP SMD   | 100NF 50V K       | C862     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C776     | VE-30000294 | CAP SMD   | 100NF 50V K       | C863     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C777     | VE-30000294 | CAP SMD   | 100NF 50V K       | C900     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C777     | VE-30000294 | CAP SMD   | 100NF 50V K       | C900     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C778     | VE-30000294 | CAP SMD   | 100NF 50V K       | C903     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C778     | VE-30000294 | CAP SMD   | 100NF 50V K       | C903     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C779     | VE-30012567 | CAP SMD   | 220PF 50V J       | C904     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C780     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C907     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C781     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C907     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C782     | VE-30000294 | CAP SMD   | 100NF 50V K       | C908     | VE-30000359 | CAP EL    | 1000UF 16V M      |
| C782     | VE-30000294 | CAP SMD   | 100NF 50V K       | C909     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C783     | VE-30000294 | CAP SMD   | 100NF 50V K       | C910     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C783     | VE-30000294 | CAP SMD   | 100NF 50V K       | C910     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C784     | VE-30000345 | CAP EL    | 10UF 50V M        | C911     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C784     | VE-30000345 | CAP EL    | 10UF 50V M        | C912     | VE-30000359 | CAP EL    | 1000UF 16V M      |
| C785     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C913     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C786     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C915     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C787     | VE-30020694 | CAP SMD   | 1UF 16V Z         | C916     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C788     | VE-30020694 | CAP SMD   | 1UF 16V Z         | C917     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C789     | VE-30020694 | CAP SMD   | 1UF 16V Z         | C917     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C790     | VE-30020694 | CAP SMD   | 1UF 16V Z         | C918     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C791     | VE-30020694 | CAP SMD   | 1UF 16V Z         | C918     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C792     | VE-30000294 | CAP SMD   | 100NF 50V K       | C919     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C792     | VE-30000294 | CAP SMD   | 100NF 50V K       | C924     | VE-30012576 | CAP SMD   | 56PF 50V J CH     |
| C793     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C925     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C794     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C925     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C795     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C926     | VE-30000371 | CAP EL    | 22UF 50V M        |

| △Ref No. | Part No.    | Part Name   | Description Local | △Ref No. | Part No.    | Part Name   | Description Local |
|----------|-------------|-------------|-------------------|----------|-------------|-------------|-------------------|
| C926     | VE-30000371 | CAP EL      | 22UF 50V M        | R147     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| C927     | VE-30000294 | CAP SMD     | 100NF 50V K       | R147     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| C927     | VE-30000294 | CAP SMD     | 100NF 50V K       | R148     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| C928     | VE-30000345 | CAP EL      | 10UF 50V M        | R148     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| C928     | VE-30000345 | CAP EL      | 10UF 50V M        | R149     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| C929     | VE-30000294 | CAP SMD     | 100NF 50V K       | R150     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| C929     | VE-30000294 | CAP SMD     | 100NF 50V K       | R151     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| C930     | VE-30000371 | CAP EL      | 22UF 50V M        | R152     | VE-30012655 | RES SMD     | 1/16W 180R J      |
| C930     | VE-30000371 | CAP EL      | 22UF 50V M        | R156     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C932     | VE-30000294 | CAP SMD     | 100NF 50V K       | R157     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C932     | VE-30000294 | CAP SMD     | 100NF 50V K       | R158     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C933     | VE-30000294 | CAP SMD     | 100NF 50V K       | R159     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C933     | VE-30000294 | CAP SMD     | 100NF 50V K       | R160     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C934     | VE-30031594 | CAP EL      | 2200UF 10V M      | R161     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     |
| C935     | VE-30016654 | CAP SMD     | 100NF 16V K R     | R162     | VE-30012509 | RES SMD     | 1/16W 100K J      |
| C936     | VE-30016654 | CAP SMD     | 100NF 16V K R     | R162     | VE-30012509 | RES SMD     | 1/16W 100K J      |
| C937     | VE-30000371 | CAP EL      | 22UF 50V M        | R165     | VE-30025836 | FERRITE NET |                   |
| C937     | VE-30000371 | CAP EL      | 22UF 50V M        | R166     | VE-30025836 | FERRITE NET |                   |
| C938     | VE-30000352 | CAP EL      | 100UF 16V M       | R167     | VE-30020529 | FERRITE SMD |                   |
| C938     | VE-30000352 | CAP EL      | 100UF 16V M       | R168     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| C941     | VE-30000294 | CAP SMD     | 100NF 50V K       | R169     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| C941     | VE-30000294 | CAP SMD     | 100NF 50V K       | R170     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R1       | VE-30000689 | RES CF      | 1/4W 3.9K J       | R172     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R1       | VE-30012510 | RES SMD     | 1/16W 100R J      | R173     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R2       | VE-30000526 | RES CF      | 1/4W 1.5K J       | R174     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R3       | VE-30000770 | RES CF      | 1/4W 680R J       | R175     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R4       | VE-30000712 | RES CF      | 1/4W 470R J       | R176     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R5       | VE-30000622 | RES CF      | 1/4W 270R J       | R177     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R100     | VE-30012713 | RES SMD     | 1/16W 75R J       | R178     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R100     | VE-30014128 | RES SMD     | 1/16W 33R J       | R179     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R101     | VE-30012713 | RES SMD     | 1/16W 75R J       | R180     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R101     | VE-30014128 | RES SMD     | 1/16W 33R J       | R181     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R102     | VE-30012641 | RES SMD     | 1/16W 10K J       | R182     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R102     | VE-30012713 | RES SMD     | 1/16W 75R J       | R183     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| R103     | VE-30012641 | RES SMD     | 1/16W 10K J       | R184     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| R103     | VE-30012713 | RES SMD     | 1/16W 75R J       | R185     | VE-30012641 | RES SMD     | 1/16W 10K J       |
| R104     | VE-30000594 | RES CF      | 1/4W 22K J        | R189     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| R104     | VE-30012713 | RES SMD     | 1/16W 75R J       | R197     | VE-30021996 | RES SMD     | 1/16W 10K J       |
| R105     | VE-30000712 | RES CF      | 1/4W 470R J       | R300     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| R105     | VE-30012641 | RES SMD     | 1/16W 10K J       | R301     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R106     | VE-30000594 | RES CF      | 1/4W 22K J        | R302     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R106     | VE-30012641 | RES SMD     | 1/16W 10K J       | R303     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R107     | VE-30000712 | RES CF      | 1/4W 470R J       | R304     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R107     | VE-30012510 | RES SMD     | 1/16W 100R J      | R305     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R107     | VE-30012510 | RES SMD     | 1/16W 100R J      | R306     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R108     | VE-30000650 | RES CF      | 1/4W 33R J        | R307     | VE-30018409 | RES SARRAY  | 1/16W 330R J      |
| R108     | VE-30012510 | RES SMD     | 1/16W 100R J      | R308     | VE-30012657 | RES SMD     | 1/16W 1K J        |
| R108     | VE-30012510 | RES SMD     | 1/16W 100R J      | R309     | VE-30012669 | RES SMD     | 1/16W 22K J       |
| R109     | VE-30000650 | RES CF      | 1/4W 33R J        | R310     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R109     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | R310     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R110     | VE-30000594 | RES CF      | 1/4W 22K J        | R311     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R110     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | R311     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R111     | VE-30000712 | RES CF      | 1/4W 470R J       | R312     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R111     | VE-30012510 | RES SMD     | 1/16W 100R J      | R312     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R111     | VE-30012510 | RES SMD     | 1/16W 100R J      | R313     | VE-30012679 | RES SMD     | 1/16W 3.9K J      |
| R112     | VE-30000594 | RES CF      | 1/4W 22K J        | R314     | VE-30012679 | RES SMD     | 1/16W 3.9K J      |
| R113     | VE-30000712 | RES CF      | 1/4W 470R J       | R315     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R114     | VE-30000594 | RES CF      | 1/4W 22K J        | R316     | VE-30012679 | RES SMD     | 1/16W 3.9K J      |
| R115     | VE-30000712 | RES CF      | 1/4W 470R J       | R317     | VE-30012650 | RES SMD     | 1/16W 15K J       |
| R121     | VE-30012677 | RES SMD     | 1/16W 3.3K J      | R318     | VE-30012659 | RES SMD     | 1/16W 2.2K J      |
| R122     | VE-30012510 | RES SMD     | 1/16W 100R J      | R319     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R122     | VE-30012510 | RES SMD     | 1/16W 100R J      | R320     | VE-30012659 | RES SMD     | 1/16W 2.2K J      |
| R123     | VE-30012510 | RES SMD     | 1/16W 100R J      | R321     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R123     | VE-30012510 | RES SMD     | 1/16W 100R J      | R322     | VE-30012695 | RES SMD     | 1/16W 470R J      |
| R127     | VE-30012641 | RES SMD     | 1/16W 10K J       | R323     | VE-30012987 | RES SMD     | 1/16W 56R J       |
| R128     | VE-30012641 | RES SMD     | 1/16W 10K J       | R324     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R130     | VE-30030692 | FERRITE NET |                   | R325     | VE-30012695 | RES SMD     | 1/16W 470R J      |
| R131     | VE-30030692 | FERRITE NET |                   | R326     | VE-30012695 | RES SMD     | 1/16W 470R J      |
| R132     | VE-30030692 | FERRITE NET |                   | R327     | VE-30012695 | RES SMD     | 1/16W 470R J      |
| R133     | VE-30030692 | FERRITE NET |                   | R328     | VE-30012696 | RES SMD     | 1/16W 47K J       |
| R134     | VE-30030692 | FERRITE NET |                   | R329     | VE-30012696 | RES SMD     | 1/16W 47K J       |
| R135     | VE-30030692 | FERRITE NET |                   | R330     | VE-30012696 | RES SMD     | 1/16W 47K J       |
| R136     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R331     | VE-30012696 | RES SMD     | 1/16W 47K J       |
| R136     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R332     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R137     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R332     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R137     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R333     | VE-30012510 | RES SMD     | 1/16W 100R J      |
| R138     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R334     | VE-30012705 | RES SMD     | 1/16W 6.8K J      |
| R138     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R335     | VE-30012705 | RES SMD     | 1/16W 6.8K J      |
| R139     | VE-30012657 | RES SMD     | 1/16W 1K J        | R336     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R141     | VE-30012641 | RES SMD     | 1/16W 10K J       | R337     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R142     | VE-30012657 | RES SMD     | 1/16W 1K J        | R339     | VE-30012509 | RES SMD     | 1/16W 100K J      |
| R143     | VE-30012657 | RES SMD     | 1/16W 1K J        | R339     | VE-30012509 | RES SMD     | 1/16W 100K J      |
| R145     | VE-30012510 | RES SMD     | 1/16W 100R J      | R340     | VE-30012692 | RES SMD     | 1/16W 4.7K J      |
| R145     | VE-30012510 | RES SMD     | 1/16W 100R J      | R341     | VE-30012644 | RES SMD     | 1/16W 12K J       |
| R146     | VE-30012510 | RES SMD     | 1/16W 100R J      | R342     | VE-30012668 | RES SMD     | 1/16W 220R J      |
| R146     | VE-30012510 | RES SMD     | 1/16W 100R J      | R343     | VE-30012668 | RES SMD     | 1/16W 220R J      |

| △Ref No. | Part No.    | Part Name  | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|------------|-------------------|----------|-------------|-----------|-------------------|
| R344     | VE-30012657 | RES SMD    | 1/16W 1K J        | R507     | VE-30012698 | RES SMD   | 1/16W 5.6K J      |
| R347     | VE-30014022 | RES SMD    | 1/16W 47R J       | R508     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R348     | VE-30012655 | RES SMD    | 1/16W 180R J      | R508     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R349     | VE-30014022 | RES SMD    | 1/16W 47R J       | R509     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R353     | VE-30012641 | RES SMD    | 1/16W 10K J       | R510     | VE-30012644 | RES SMD   | 1/16W 12K J       |
| R354     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R511     | VE-30012696 | RES SMD   | 1/16W 47K J       |
| R355     | VE-30012659 | RES SMD    | 1/16W 2.2K J      | R512     | VE-30012684 | RES SMD   | 1/16W 330R J      |
| R357     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R513     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R358     | VE-30012695 | RES SMD    | 1/16W 470R J      | R514     | VE-30012669 | RES SMD   | 1/16W 22K J       |
| R359     | VE-30012659 | RES SMD    | 1/16W 2.2K J      | R515     | VE-30012669 | RES SMD   | 1/16W 22K J       |
| R360     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R516     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R360     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R517     | VE-30012659 | RES SMD   | 1/16W 2.2K J      |
| R361     | VE-30012657 | RES SMD    | 1/16W 1K J        | R518     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R368     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R518     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R369     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R527     | VE-30012705 | RES SMD   | 1/16W 6.8K J      |
| R370     | VE-30012669 | RES SMD    | 1/16W 22K J       | R528     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| R371     | VE-30012657 | RES SMD    | 1/16W 1K J        | R529     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R374     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R600     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R376     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R601     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R378     | VE-30012684 | RES SMD    | 1/16W 330R J      | R602     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R379     | VE-30012510 | RES SMD    | 1/16W 100R J      | R602     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R379     | VE-30012510 | RES SMD    | 1/16W 100R J      | R603     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R380     | VE-30012669 | RES SMD    | 1/16W 22K J       | R603     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R381     | VE-30012657 | RES SMD    | 1/16W 1K J        | R604     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R383     | VE-30012650 | RES SMD    | 1/16W 15K J       | R605     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R384     | VE-30012679 | RES SMD    | 1/16W 3.9K J      | R606     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R385     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R607     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R386     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R608     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R386     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R609     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R387     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R610     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R387     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R611     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R388     | VE-30012641 | RES SMD    | 1/16W 10K J       | R612     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R389     | VE-30012641 | RES SMD    | 1/16W 10K J       | R613     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R390     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R614     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R391     | VE-30012696 | RES SMD    | 1/16W 47K J       | R614     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R392     | VE-30012696 | RES SMD    | 1/16W 47K J       | R615     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R393     | VE-30012510 | RES SMD    | 1/16W 100R J      | R617     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R393     | VE-30012510 | RES SMD    | 1/16W 100R J      | R618     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R394     | VE-30012641 | RES SMD    | 1/16W 10K J       | R619     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R395     | VE-30012684 | RES SMD    | 1/16W 330R J      | R620     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R396     | VE-30012684 | RES SMD    | 1/16W 330R J      | R621     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R397     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R622     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R399     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R623     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R400     | VE-30012713 | RES SMD    | 1/16W 75R J       | R625     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R401     | VE-30012713 | RES SMD    | 1/16W 75R J       | R626     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R402     | VE-30012713 | RES SMD    | 1/16W 75R J       | R627     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R404     | VE-30012713 | RES SMD    | 1/16W 75R J       | R628     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R405     | VE-30012713 | RES SMD    | 1/16W 75R J       | R629     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R406     | VE-30012713 | RES SMD    | 1/16W 75R J       | R630     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R407     | VE-30012510 | RES SMD    | 1/16W 100R J      | R630     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R407     | VE-30012510 | RES SMD    | 1/16W 100R J      | R631     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R408     | VE-30012510 | RES SMD    | 1/16W 100R J      | R632     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R408     | VE-30012510 | RES SMD    | 1/16W 100R J      | R632     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R409     | VE-30012713 | RES SMD    | 1/16W 75R J       | R633     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R410     | VE-30012644 | RES SMD    | 1/16W 12K J       | R633     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R411     | VE-30012669 | RES SMD    | 1/16W 22K J       | R634     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R412     | VE-30014078 | RES SMD    | 1/16W 22R J       | R634     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R413     | VE-30012657 | RES SMD    | 1/16W 1K J        | R635     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R414     | VE-30012713 | RES SMD    | 1/16W 75R J       | R635     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R415     | VE-30012510 | RES SMD    | 1/16W 100R J      | R636     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R415     | VE-30012510 | RES SMD    | 1/16W 100R J      | R636     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R416     | VE-30018254 | RES SARRAY | 1/16W 10R J       | R637     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R417     | VE-30018254 | RES SARRAY | 1/16W 10R J       | R637     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R418     | VE-30014078 | RES SMD    | 1/16W 22R J       | R700     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R425     | VE-30012695 | RES SMD    | 1/16W 470R J      | R701     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R426     | VE-30012695 | RES SMD    | 1/16W 470R J      | R702     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R427     | VE-30012695 | RES SMD    | 1/16W 470R J      | R702     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R431     | VE-30012657 | RES SMD    | 1/16W 1K J        | R703     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R432     | VE-30012657 | RES SMD    | 1/16W 1K J        | R703     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R434     | VE-30012657 | RES SMD    | 1/16W 1K J        | R704     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R437     | VE-30012713 | RES SMD    | 1/16W 75R J       | R705     | VE-30012712 | RES SMD   | 1/16W 8.2K J      |
| R438     | VE-30012713 | RES SMD    | 1/16W 75R J       | R706     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R439     | VE-30012713 | RES SMD    | 1/16W 75R J       | R707     | VE-30012712 | RES SMD   | 1/16W 8.2K J      |
| R450     | VE-30012659 | RES SMD    | 1/16W 2.2K J      | R708     | VE-30012665 | RES SMD   | 1/16W 20K J       |
| R454     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R709     | VE-30012665 | RES SMD   | 1/16W 20K J       |
| R456     | VE-30012510 | RES SMD    | 1/16W 100R J      | R710     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R456     | VE-30012510 | RES SMD    | 1/16W 100R J      | R711     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R457     | VE-30012510 | RES SMD    | 1/16W 100R J      | R711     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R457     | VE-30012510 | RES SMD    | 1/16W 100R J      | R712     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R503     | VE-30012510 | RES SMD    | 1/16W 100R J      | R713     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R503     | VE-30012510 | RES SMD    | 1/16W 100R J      | R714     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R504     | VE-30012510 | RES SMD    | 1/16W 100R J      | R715     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R504     | VE-30012510 | RES SMD    | 1/16W 100R J      | R716     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R505     | VE-30012510 | RES SMD    | 1/16W 100R J      | R717     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R505     | VE-30012510 | RES SMD    | 1/16W 100R J      | R718     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R506     | VE-30012510 | RES SMD    | 1/16W 100R J      | R719     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R506     | VE-30012510 | RES SMD    | 1/16W 100R J      | R723     | VE-30012713 | RES SMD   | 1/16W 75R J       |

| △Ref No. | Part No.    | Part Name   | Description Local | △Ref No. | Part No.    | Part Name    | Description Local |
|----------|-------------|-------------|-------------------|----------|-------------|--------------|-------------------|
| R724     | VE-30012713 | RES SMD     | 1/16W 75R J       | R923     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R725     | VE-30012713 | RES SMD     | 1/16W 75R J       | R924     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R726     | VE-30012657 | RES SMD     | 1/16W 1K J        | R925     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R727     | VE-30012657 | RES SMD     | 1/16W 1K J        | R926     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R729     | VE-30012713 | RES SMD     | 1/16W 75R J       | R927     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R731     | VE-30012713 | RES SMD     | 1/16W 75R J       | R928     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R732     | VE-30012713 | RES SMD     | 1/16W 75R J       | R930     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R734     | VE-30012510 | RES SMD     | 1/16W 100R J      | R931     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R734     | VE-30012510 | RES SMD     | 1/16W 100R J      | R932     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R735     | VE-30012510 | RES SMD     | 1/16W 100R J      | R933     | VE-30012510 | RES SMD      | 1/16W 100R J      |
| R735     | VE-30012510 | RES SMD     | 1/16W 100R J      | R933     | VE-30012510 | RES SMD      | 1/16W 100R J      |
| R736     | VE-30012657 | RES SMD     | 1/16W 1K J        | R934     | VE-30012510 | RES SMD      | 1/16W 100R J      |
| R737     | VE-30012657 | RES SMD     | 1/16W 1K J        | R934     | VE-30012510 | RES SMD      | 1/16W 100R J      |
| R738     | VE-30012657 | RES SMD     | 1/16W 1K J        | R935     | VE-30012641 | RES SMD      | 1/16W 10K J       |
| R739     | VE-30012657 | RES SMD     | 1/16W 1K J        |          |             |              |                   |
| R740     | VE-30012657 | RES SMD     | 1/16W 1K J        | L100     | VE-30001996 | FIXED COIL   | 22UH              |
| R741     | VE-30012657 | RES SMD     | 1/16W 1K J        | L101     | VE-30001996 | FIXED COIL   | 22UH              |
| R742     | VE-30012642 | RES SMD     | 1/16W 120K J      | L101     | VE-30001971 | FERRITE SMD  |                   |
| R743     | VE-30012644 | RES SMD     | 1/16W 12K J       | L101     | VE-30001971 | FERRITE SMD  |                   |
| R744     | VE-30012696 | RES SMD     | 1/16W 47K J       | L102     | VE-30001979 | FIXED COIL   | 1UH               |
| R745     | VE-30012689 | RES SMD     | 1/16W 39K J       | L103     | VE-30001979 | FIXED COIL   | 1UH               |
| R746     | VE-30012674 | RES SMD     | 1/16W 27K J       | L104     | VE-30001971 | FERRITE SMD  |                   |
| R747     | VE-30012713 | RES SMD     | 1/16W 75R J       | L104     | VE-30001971 | FERRITE SMD  |                   |
| R748     | VE-30012713 | RES SMD     | 1/16W 75R J       | L105     | VE-30001971 | FERRITE SMD  |                   |
| R749     | VE-30012668 | RES SMD     | 1/16W 220R J      | L105     | VE-30001971 | FERRITE SMD  |                   |
| R751     | VE-30012510 | RES SMD     | 1/16W 100R J      | L109     | VE-30001971 | FERRITE SMD  |                   |
| R751     | VE-30012510 | RES SMD     | 1/16W 100R J      | L109     | VE-30001971 | FERRITE SMD  |                   |
| R752     | VE-30012657 | RES SMD     | 1/16W 1K J        | L110     | VE-30001971 | FERRITE SMD  |                   |
| R753     | VE-30012641 | RES SMD     | 1/16W 10K J       | L110     | VE-30001971 | FERRITE SMD  |                   |
| R754     | VE-30012641 | RES SMD     | 1/16W 10K J       | L111     | VE-30001971 | FERRITE SMD  |                   |
| R756     | VE-30012641 | RES SMD     | 1/16W 10K J       | L111     | VE-30001971 | FERRITE SMD  |                   |
| R757     | VE-30012641 | RES SMD     | 1/16W 10K J       | L113     | VE-30020896 | FERRITE SMD  |                   |
| R759     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | L300     | VE-30017143 | FIXED COIL   | 22UH              |
| R760     | VE-30012641 | RES SMD     | 1/16W 10K J       | L301     | VE-30018093 | FIXED COIL   | 3.3uH             |
| R761     | VE-30000464 | RES SMD     | 1/10W 100R J      | L302     | VE-30018093 | FIXED COIL   | 3.3uH             |
| R761     | VE-30000464 | RES SMD     | 1/10W 100R J      | L303     | VE-30018093 | FIXED COIL   | 3.3uH             |
| R762     | VE-30012713 | RES SMD     | 1/16W 75R J       | L305     | VE-30001990 | FIXED COIL   | 6.8UH             |
| R763     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | L305     | VE-30001990 | FIXED COIL   | 6.8UH             |
| R764     | VE-30012657 | RES SMD     | 1/16W 1K J        | L306     | VE-30001971 | FERRITE SMD  |                   |
| R765     | VE-30012641 | RES SMD     | 1/16W 10K J       | L306     | VE-30001971 | FERRITE SMD  |                   |
| R770     | VE-30012641 | RES SMD     | 1/16W 10K J       | L307     | VE-30006712 | FERRITE BEAD |                   |
| R771     | VE-30012641 | RES SMD     | 1/16W 10K J       | L307     | VE-30006712 | FERRITE BEAD |                   |
| R778     | VE-30012641 | RES SMD     | 1/16W 10K J       | L308     | VE-30002170 | FERRITE CORE |                   |
| R779     | VE-30012509 | RES SMD     | 1/16W 100K J      | L401     | VE-30001971 | FERRITE SMD  |                   |
| R779     | VE-30012509 | RES SMD     | 1/16W 100K J      | L401     | VE-30001971 | FERRITE SMD  |                   |
| R780     | VE-30012669 | RES SMD     | 1/16W 22K J       | L402     | VE-30001971 | FERRITE SMD  |                   |
| R784     | VE-30000464 | RES SMD     | 1/10W 100R J      | L402     | VE-30001971 | FERRITE SMD  |                   |
| R784     | VE-30000464 | RES SMD     | 1/10W 100R J      | L408     | VE-30001971 | FERRITE SMD  |                   |
| R785     | VE-30001969 | FERRITE SMD |                   | L408     | VE-30001971 | FERRITE SMD  |                   |
| R785     | VE-30001969 | FERRITE SMD |                   | L409     | VE-30001996 | FIXED COIL   | 22UH              |
| R786     | VE-30012713 | RES SMD     | 1/16W 75R J       | L409     | VE-30001996 | FIXED COIL   | 22UH              |
| R787     | VE-30012713 | RES SMD     | 1/16W 75R J       | L501     | VE-30001971 | FERRITE SMD  |                   |
| R788     | VE-30012657 | RES SMD     | 1/16W 1K J        | L501     | VE-30001971 | FERRITE SMD  |                   |
| R800     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | L502     | VE-30001971 | FERRITE SMD  |                   |
| R801     | VE-30014128 | RES SMD     | 1/16W 33R J       | L502     | VE-30001971 | FERRITE SMD  |                   |
| R901     | VE-30012641 | RES SMD     | 1/16W 10K J       | L503     | VE-30001971 | FERRITE SMD  |                   |
| R902     | VE-30012509 | RES SMD     | 1/16W 100K J      | L503     | VE-30001971 | FERRITE SMD  |                   |
| R902     | VE-30012509 | RES SMD     | 1/16W 100K J      | L504     | VE-30001996 | FIXED COIL   | 22UH              |
| R903     | VE-30012641 | RES SMD     | 1/16W 10K J       | L504     | VE-30001996 | FIXED COIL   | 22UH              |
| R904     | VE-30012641 | RES SMD     | 1/16W 10K J       | L600     | VE-30017143 | FIXED COIL   | 22UH              |
| R905     | VE-30012641 | RES SMD     | 1/16W 10K J       | L700     | VE-30001971 | FERRITE SMD  |                   |
| R906     | VE-30012509 | RES SMD     | 1/16W 100K J      | L700     | VE-30001971 | FERRITE SMD  |                   |
| R906     | VE-30012509 | RES SMD     | 1/16W 100K J      | L701     | VE-30001971 | FERRITE SMD  |                   |
| R907     | VE-30012510 | RES SMD     | 1/16W 100R J      | L701     | VE-30001971 | FERRITE SMD  |                   |
| R907     | VE-30012510 | RES SMD     | 1/16W 100R J      | L702     | VE-30001971 | FERRITE SMD  |                   |
| R908     | VE-30012510 | RES SMD     | 1/16W 100R J      | L702     | VE-30001971 | FERRITE SMD  |                   |
| R908     | VE-30012510 | RES SMD     | 1/16W 100R J      | L703     | VE-30001971 | FERRITE SMD  |                   |
| R909     | VE-30012677 | RES SMD     | 1/16W 3.3K J      | L703     | VE-30001971 | FERRITE SMD  |                   |
| R910     | VE-30012510 | RES SMD     | 1/16W 100R J      | L704     | VE-30001971 | FERRITE SMD  |                   |
| R910     | VE-30012510 | RES SMD     | 1/16W 100R J      | L704     | VE-30001971 | FERRITE SMD  |                   |
| R911     | VE-30012510 | RES SMD     | 1/16W 100R J      | L705     | VE-30001971 | FERRITE SMD  |                   |
| R911     | VE-30012510 | RES SMD     | 1/16W 100R J      | L705     | VE-30001971 | FERRITE SMD  |                   |
| R912     | VE-30012655 | RES SMD     | 1/16W 180R J      | L707     | VE-30001971 | FERRITE SMD  |                   |
| R913     | VE-30012659 | RES SMD     | 1/16W 2.2K J      | L707     | VE-30001971 | FERRITE SMD  |                   |
| R915     | VE-30012703 | RES SMD     | 1/16W 56K J       | L708     | VE-30001971 | FERRITE SMD  |                   |
| R916     | VE-30000833 | RES SMD     | 1/10W 91R J       | L708     | VE-30001971 | FERRITE SMD  |                   |
| R916     | VE-30000833 | RES SMD     | 1/10W 91R J       | L709     | VE-30001971 | FERRITE SMD  |                   |
| R917     | VE-30000833 | RES SMD     | 1/10W 91R J       | L709     | VE-30001971 | FERRITE SMD  |                   |
| R917     | VE-30000833 | RES SMD     | 1/10W 91R J       | L710     | VE-30006712 | FERRITE BEAD |                   |
| R918     | VE-30012705 | RES SMD     | 1/16W 6.8K J      | L710     | VE-30006712 | FERRITE BEAD |                   |
| R919     | VE-30000833 | RES SMD     | 1/10W 91R J       | L711     | VE-30013412 | FERRITE SMD  |                   |
| R919     | VE-30000833 | RES SMD     | 1/10W 91R J       | L712     | VE-30013412 | FERRITE SMD  |                   |
| R920     | VE-30000717 | RES SMD     | 1/10W 470R J      | L713     | VE-30001971 | FERRITE SMD  |                   |
| R920     | VE-30000717 | RES SMD     | 1/10W 470R J      | L713     | VE-30001971 | FERRITE SMD  |                   |
| R921     | VE-30006462 | RES SMD     | 1/10W 22R J       | L714     | VE-30001971 | FERRITE SMD  |                   |
| R921     | VE-30006462 | RES SMD     | 1/10W 22R J       | L714     | VE-30001971 | FERRITE SMD  |                   |
| R922     | VE-30012641 | RES SMD     | 1/16W 10K J       | L715     | VE-30001971 | FERRITE SMD  |                   |

| △Ref No. | Part No.    | Part Name             | Description Local |
|----------|-------------|-----------------------|-------------------|
| L715     | VE-30001971 | FERRITE SMD           |                   |
| L716     | VE-30001971 | FERRITE SMD           |                   |
| L716     | VE-30001971 | FERRITE SMD           |                   |
| L717     | VE-30001971 | FERRITE SMD           |                   |
| L717     | VE-30001971 | FERRITE SMD           |                   |
| L718     | VE-30024779 | FERRITE SMD           |                   |
| L719     | VE-30024779 | FERRITE SMD           |                   |
| L721     | VE-30024779 | FERRITE SMD           |                   |
| L722     | VE-30024779 | FERRITE SMD           |                   |
| L723     | VE-30001971 | FERRITE SMD           |                   |
| L723     | VE-30001971 | FERRITE SMD           |                   |
| L724     | VE-30013412 | FERRITE SMD           |                   |
| L725     | VE-30013412 | FERRITE SMD           |                   |
| L726     | VE-30001971 | FERRITE SMD           |                   |
| L726     | VE-30001971 | FERRITE SMD           |                   |
| L727     | VE-30001971 | FERRITE SMD           |                   |
| L727     | VE-30001971 | FERRITE SMD           |                   |
| L728     | VE-30001971 | FERRITE SMD           |                   |
| L728     | VE-30001971 | FERRITE SMD           |                   |
| L729     | VE-30001971 | FERRITE SMD           |                   |
| L729     | VE-30001971 | FERRITE SMD           |                   |
| L734     | VE-30001971 | FERRITE SMD           |                   |
| L734     | VE-30001971 | FERRITE SMD           |                   |
| L800     | VE-30018093 | FIXED COIL            | 3.3uH             |
| L801     | VE-30002170 | FERRITE CORE          |                   |
| L802     | VE-30020394 | FERRITE SMD           |                   |
| L803     | VE-30020394 | FERRITE SMD           |                   |
| L805     | VE-30001971 | FERRITE SMD           |                   |
| L805     | VE-30001971 | FERRITE SMD           |                   |
| L900     | VE-30002170 | FERRITE CORE          |                   |
| L901     | VE-30001996 | FIXED COIL            | 22UH              |
| L906     | VE-30001996 | FIXED COIL            | 22UH              |
| L906     | VE-30001996 | FIXED COIL            | 22UH              |
| L907     | VE-30002170 | FERRITE CORE          |                   |
| L908     | VE-30019475 | FIXED COIL            | 47UH              |
| L910     | VE-30002002 | FIXED COIL            | 47UH              |
| L910     | VE-30002002 | FIXED COIL            | 47UH              |
| L911     | VE-30011450 | FIXED COIL            | 22UH              |
| △F900    | VE-30028331 | FUSE                  | 7A                |
| △F901    | VE-30028331 | FUSE                  | 7A                |
| JK100    | VE-30001900 | JACK HEADPHONE        | HP01              |
| JK101    | VE-30001893 | RCA JACK              | YELLOW FAV        |
| JK102    | VE-30001891 | RCA JACK              |                   |
| JK103    | VE-30001892 | RCA JACK              |                   |
| JK104    | VE-30001895 | JACK 4P DIN TYPE      | SVHS              |
| JK105    | VE-30001891 | RCA JACK              |                   |
| JK106    | VE-30001892 | RCA JACK              |                   |
| JK107    | VE-30033200 | RCA JACK              | 1P BLACK          |
| JK700    | VE-30001902 | JACK HEADPHONE        |                   |
| JK702    | VE-30001891 | RCA JACK              | WHITE FAV         |
| JK703    | VE-30001892 | RCA JACK              | RED FAV           |
| JK704    | VE-30001892 | RCA JACK              | RED FAV           |
| JK705    | VE-30032233 | RCA JACK              | 1P GREEN          |
| JK706    | VE-30032234 | RCA JACK              | 1P BLUE           |
| JK901    | VE-30027932 | DC POWER SOCKET       |                   |
| PL100    | VE-30030582 | CONN MALE 6P MOL      |                   |
| PL101    | VE-30032051 | D SOCKET              | D-SUB 15P         |
| PL306    | VE-30021298 | CONN MALE 12P MOL     |                   |
| PL700    | VE-30018089 | SOCET SCART BLACK TFT |                   |
| PL701    | VE-30018089 | SOCET SCART BLACK TFT |                   |
| PL702    | VE-30021298 | CONN MALE 12P MOL     |                   |
| PL707    | VE-30030582 | CONN MALE 6P MOL      |                   |
| S100     | VE-30006712 | FERRITE BEAD          |                   |
| S102     | VE-30006712 | FERRITE BEAD          |                   |
| S103     | VE-30006712 | FERRITE BEAD          |                   |
| S104     | VE-30006712 | FERRITE BEAD          |                   |
| S105     | VE-30006712 | FERRITE BEAD          |                   |
| S106     | VE-30006712 | FERRITE BEAD          |                   |
| S730     | VE-30012695 | RES SMD               | 1/16W 470R J      |
| SW1      | VE-30002181 | SWITCH TACT           |                   |
| SW2      | VE-30002181 | SWITCH TACT           |                   |
| SW3      | VE-30002181 | SWITCH TACT           |                   |
| SW4      | VE-30002181 | SWITCH TACT           |                   |
| SW5      | VE-30002181 | SWITCH TACT           |                   |
| SW7      | VE-30002181 | SWITCH TACT           |                   |
| SW17     | VE-30002181 | SWITCH TACT           |                   |
| △TU500   | VE-30020654 | TUNER WSP (PLL)       |                   |
| X100     | VE-30017946 | XTAL                  |                   |
| X300     | VE-30006662 | XTAL                  |                   |
| X400     | VE-30008778 | XTAL                  |                   |
| X500     | VE-30021113 | XTAL                  |                   |
| X700     | VE-30001756 | XTAL                  |                   |
| Z500     | VE-30014261 | FILTER SAW            |                   |
| Z501     | VE-30013163 | FILTER SAW            |                   |

# PRINTED WIRING BOARD PARTS LIST

## [LT-17C50BU, LT-17C50BU/Z, LT-17C50SU, LT-17C50SU/Z, LT-17C88SJ]

| △Ref No. | Part No.    | Part Name  | Description Local | △Ref No. | Part No.    | Part Name   | Description Local |
|----------|-------------|------------|-------------------|----------|-------------|-------------|-------------------|
| IC1      | VE-30001670 | IC         |                   | Q907     | VE-30001457 | TRANSISTOR  |                   |
| IC100    | VE-30020865 | IC         |                   | D1       | VE-30016020 | DIODE ZENER |                   |
| IC101    | VE-30032066 | IC         |                   | D2       | VE-30019678 | LED         |                   |
| IC102    | VE-30018006 | IC         |                   | D100     | VE-30001285 | DIODE       |                   |
| IC104    | VE-30019132 | IC         |                   | D101     | VE-30001285 | DIODE       |                   |
| IC105    | VE-30034805 | IC         |                   | D103     | VE-30007169 | DIODE       |                   |
| IC106    | VE-30017956 | IC         |                   | D105     | VE-30007169 | DIODE       |                   |
| IC107    | VE-30019372 | IC         |                   | D107     | VE-30007169 | DIODE       |                   |
| IC109    | VE-30010822 | IC         |                   | D108     | VE-30025773 | DIODE ZENER |                   |
| IC300    | VE-30001853 | IC         |                   | D109     | VE-30025773 | DIODE ZENER |                   |
| IC300    | VE-30018652 | IC         |                   | D111     | VE-30007169 | DIODE       |                   |
| IC301    | VE-20172473 | IC(MICOM)  | (SERVICE)         | D112     | VE-30007169 | DIODE       |                   |
| IC302    | VE-20180593 | IC(MEMORY) | (SERVICE)         | D114     | VE-30007763 | DIODE ZENER |                   |
| IC400    | VE-30015059 | IC         |                   | D300     | VE-30012412 | DIODE ZENER |                   |
| IC402    | VE-30004999 | IC         |                   | D301     | VE-30001285 | DIODE       |                   |
| IC403    | VE-30019372 | IC         |                   | D302     | VE-30001285 | DIODE       |                   |
| IC500    | VE-30021083 | IC         |                   | D305     | VE-30001285 | DIODE       |                   |
| IC600    | VE-30013686 | IC         |                   | D306     | VE-30001285 | DIODE       |                   |
| IC700    | VE-30018263 | IC         |                   | D307     | VE-30001285 | DIODE       |                   |
| IC701    | VE-30010024 | IC         |                   | D500     | VE-30001285 | DIODE       |                   |
| IC702    | VE-30027663 | IC         |                   | D501     | VE-30012411 | DIODE       |                   |
| IC705    | VE-30010822 | IC         |                   | D600     | VE-30007760 | DIODE ZENER |                   |
| IC800    | VE-30017847 | IC         |                   | D700     | VE-30007761 | DIODE ZENER |                   |
| IC901    | VE-30027613 | IC         |                   | D701     | VE-30001285 | DIODE       |                   |
| IC902    | VE-30014344 | TRANSISTOR |                   | D702     | VE-30001285 | DIODE       |                   |
| IC904    | VE-30027612 | IC         |                   | D703     | VE-30001285 | DIODE       |                   |
| IC906    | VE-30018326 | IC         |                   | D704     | VE-30007760 | DIODE ZENER |                   |
| IC908    | VE-30014344 | TR         |                   | D706     | VE-30007760 | DIODE ZENER |                   |
| IC909    | VE-30007739 | IC         |                   | D707     | VE-30007760 | DIODE ZENER |                   |
| IC910    | VE-30007739 | IC         |                   | D708     | VE-30007760 | DIODE ZENER |                   |
| Q100     | VE-30001457 | TRANSISTOR |                   | D709     | VE-30007760 | DIODE ZENER |                   |
| Q101     | VE-30034725 | TRANSISTOR |                   | D710     | VE-30007760 | DIODE ZENER |                   |
| Q103     | VE-30001457 | TRANSISTOR |                   | D711     | VE-30007760 | DIODE ZENER |                   |
| Q104     | VE-30001457 | TRANSISTOR |                   | D712     | VE-30007760 | DIODE ZENER |                   |
| Q105     | VE-30001457 | TRANSISTOR |                   | D713     | VE-30007760 | DIODE ZENER |                   |
| Q300     | VE-30001458 | TRANSISTOR |                   | D714     | VE-30007760 | DIODE ZENER |                   |
| Q301     | VE-30001457 | TRANSISTOR |                   | D715     | VE-30007760 | DIODE ZENER |                   |
| Q302     | VE-30001457 | TRANSISTOR |                   | D716     | VE-30007760 | DIODE ZENER |                   |
| Q303     | VE-30001457 | TRANSISTOR |                   | D717     | VE-30007760 | DIODE ZENER |                   |
| Q304     | VE-30001457 | TRANSISTOR |                   | D719     | VE-30001285 | DIODE       |                   |
| Q305     | VE-30001457 | TRANSISTOR |                   | D720     | VE-30007760 | DIODE ZENER |                   |
| Q306     | VE-30001457 | TRANSISTOR |                   | D721     | VE-30007760 | DIODE ZENER |                   |
| Q307     | VE-30001457 | TRANSISTOR |                   | D722     | VE-30007760 | DIODE ZENER |                   |
| Q308     | VE-30001458 | TRANSISTOR |                   | D723     | VE-30018574 | DIODE       |                   |
| Q309     | VE-30001457 | TRANSISTOR |                   | D725     | VE-30009699 | DIODE ZENER |                   |
| Q310     | VE-30001458 | TRANSISTOR |                   | D726     | VE-30009699 | DIODE ZENER |                   |
| Q311     | VE-30001423 | TRANSISTOR |                   | D900     | VE-30001313 | DIODE       |                   |
| Q312     | VE-30001458 | TRANSISTOR |                   | D902     | VE-30001285 | DIODE       |                   |
| Q313     | VE-30001457 | TRANSISTOR |                   | D903     | VE-30001343 | DIODE ZENER |                   |
| Q314     | VE-30001457 | TRANSISTOR |                   | D904     | VE-30001313 | DIODE       |                   |
| Q315     | VE-30001457 | TRANSISTOR |                   | D905     | VE-30001285 | DIODE       |                   |
| Q316     | VE-30001457 | TRANSISTOR |                   | D906     | VE-30001285 | DIODE       |                   |
| Q317     | VE-30001457 | TRANSISTOR |                   | C1       | VE-30000371 | CAP EL      | 22UF 50V M        |
| Q318     | VE-30001458 | TRANSISTOR |                   | C100     | VE-30012566 | CAP SMD     | 22PF 50V J        |
| Q319     | VE-30001458 | TRANSISTOR |                   | C100     | VE-30012589 | CAP SMD     | 4.7NF 50V K       |
| Q400     | VE-30001457 | TRANSISTOR |                   | C101     | VE-30012566 | CAP SMD     | 22PF 50V J        |
| Q501     | VE-30001457 | TRANSISTOR |                   | C101     | VE-30012589 | CAP SMD     | 4.7NF 50V K       |
| Q502     | VE-30001457 | TRANSISTOR |                   | C102     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q502     | VE-30001457 | TRANSISTOR |                   | C102     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q600     | VE-30001457 | TRANSISTOR |                   | C103     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q601     | VE-30001457 | TRANSISTOR |                   | C104     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q602     | VE-30001457 | TRANSISTOR |                   | C104     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q603     | VE-30001457 | TRANSISTOR |                   | C105     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q700     | VE-30001458 | TRANSISTOR |                   | C105     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q701     | VE-30001457 | TRANSISTOR |                   | C106     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q702     | VE-30001457 | TRANSISTOR |                   | C106     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q703     | VE-30001457 | TRANSISTOR |                   | C107     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q704     | VE-30001457 | TRANSISTOR |                   | C107     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q705     | VE-30001457 | TRANSISTOR |                   | C108     | VE-30000190 | CAP CER     | 100PF 50V J CH    |
| Q706     | VE-30001457 | TRANSISTOR |                   | C108     | VE-30012582 | CAP SMD     | 10NF 50V K R      |
| Q708     | VE-30001458 | TRANSISTOR |                   | C109     | VE-30012582 | CAP SMD     | 10NF 50V K R      |
| Q709     | VE-30001457 | TRANSISTOR |                   | C110     | VE-30012582 | CAP SMD     | 10NF 50V K R      |
| Q900     | VE-30001457 | TRANSISTOR |                   | C111     | VE-30012582 | CAP SMD     | 10NF 50V K R      |
| Q901     | VE-30001457 | TRANSISTOR |                   | C112     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q902     | VE-30001454 | TRANSISTOR |                   | C113     | VE-30012582 | CAP SMD     | 10NF 50V K R      |
| Q904     | VE-30001457 | TRANSISTOR |                   | C114     | VE-30016654 | CAP SMD     | 100NF 16V K R     |
| Q905     | VE-30001457 | TRANSISTOR |                   | C115     | VE-30000371 | CAP EL      | 22UF 50V M        |
| Q906     | VE-30001457 | TRANSISTOR |                   | C116     | VE-30012590 | CAP SMD     | 47NF 50V K        |
|          |             |            |                   | C117     | VE-30012590 | CAP SMD     | 47NF 50V K        |



| △Ref No. | Part No.    | Part Name | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|-----------|-------------------|----------|-------------|-----------|-------------------|
| C118     | VE-30012590 | CAP SMD   | 47NF 50V K        | C331     | VE-30012607 | CAP SMD   | 150PF 50V J       |
| C120     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C332     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C121     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C333     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C122     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C334     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C123     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C335     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C124     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C336     | VE-30012611 | CAP SMD   | 120PF 50V J       |
| C125     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C337     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C126     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C338     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C127     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C339     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C128     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C340     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C129     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C400     | VE-30012609 | CAP SMD   | 68NF 50V K        |
| C130     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C401     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C131     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C402     | VE-30012590 | CAP SMD   | 47NF 50V K        |
| C132     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C403     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C133     | VE-30012587 | CAP SMD   | 3.3NF 50V K       | C404     | VE-30012613 | CAP SMD   | 3.3PF 50V C CH    |
| C134     | VE-30012605 | CAP SMD   | 39NF 50V M        | C405     | VE-30012613 | CAP SMD   | 3.3PF 50V C CH    |
| C136     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C406     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C137     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C407     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C138     | VE-30000371 | CAP EL    | 22UF 50V M        | C408     | VE-30012572 | CAP SMD   | 390PF 50V J       |
| C139     | VE-30000371 | CAP EL    | 22UF 50V M        | C409     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C146     | VE-30000109 | CAP MKT   | 470NF 63V J       | C410     | VE-30012590 | CAP SMD   | 47NF 50V K        |
| C147     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C411     | VE-30000068 | CAP MKT   | 1NF 63V K         |
| C148     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    | C412     | VE-30007082 | CAP MKT   | 680NF 63V J       |
| C149     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    | C413     | VE-30007082 | CAP MKT   | 680NF 63V J       |
| C150     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C414     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C151     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C415     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C152     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C416     | VE-30012590 | CAP SMD   | 47NF 50V K        |
| C153     | VE-30012567 | CAP SMD   | 220PF 50V J       | C420     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C154     | VE-30012567 | CAP SMD   | 220PF 50V J       | C421     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C155     | VE-30012567 | CAP SMD   | 220PF 50V J       | C422     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C156     | VE-30000371 | CAP EL    | 22UF 50V M        | C424     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C157     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C425     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C158     | VE-30012567 | CAP SMD   | 220PF 50V J       | C426     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C159     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C427     | VE-30012572 | CAP SMD   | 390PF 50V J       |
| C160     | VE-30012567 | CAP SMD   | 220PF 50V J       | C428     | VE-30012590 | CAP SMD   | 47NF 50V K        |
| C161     | VE-30012567 | CAP SMD   | 220PF 50V J       | C429     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C162     | VE-30000371 | CAP EL    | 22UF 50V M        | C430     | VE-30012609 | CAP SMD   | 68NF 50V K        |
| C163     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C431     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C164     | VE-30012567 | CAP SMD   | 220PF 50V J       | C432     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C165     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C433     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C166     | VE-30012567 | CAP SMD   | 220PF 50V J       | C434     | VE-30012570 | CAP SMD   | 330PF 50V J       |
| C167     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C435     | VE-30012570 | CAP SMD   | 330PF 50V J       |
| C168     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C436     | VE-30012570 | CAP SMD   | 330PF 50V J       |
| C169     | VE-30012567 | CAP SMD   | 220PF 50V J       | C437     | VE-30007082 | CAP MKT   | 680NF 63V J       |
| C170     | VE-30012567 | CAP SMD   | 220PF 50V J       | C438     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C171     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C439     | VE-30012609 | CAP SMD   | 68NF 50V K        |
| C172     | VE-30012567 | CAP SMD   | 220PF 50V J       | C440     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C174     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C441     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C175     | VE-30012567 | CAP SMD   | 220PF 50V J       | C442     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C176     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C443     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C177     | VE-30000371 | CAP EL    | 22UF 50V M        | C485     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C178     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C486     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C183     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C487     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C185     | VE-30000352 | CAP EL    | 100UF 16V M       | C488     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C187     | VE-30012573 | CAP SMD   | 47PF 50V J        | C489     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C189     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C490     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C190     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C491     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C217     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C492     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C218     | VE-30012575 | CAP SMD   | 4.7PF 50V C CH    | C493     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C219     | VE-30000392 | CAP EL    | 0.33UF 50V M      | C494     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C300     | VE-30000352 | CAP EL    | 100UF 16V M       | C495     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C301     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C496     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C302     | VE-30000371 | CAP EL    | 22UF 50V M        | C502     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C303     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C503     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C304     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C505     | VE-30000400 | CAP EL    | 47UF 50V M        |
| C305     | VE-30000371 | CAP EL    | 22UF 50V M        | C506     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C306     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C507     | VE-30012572 | CAP SMD   | 390PF 50V J       |
| C307     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C508     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C308     | VE-30000371 | CAP EL    | 22UF 50V M        | C509     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C309     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C510     | VE-30012566 | CAP SMD   | 22PF 50V J        |
| C310     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C511     | VE-30000109 | CAP MKT   | 470NF 63V J       |
| C311     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C512     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C312     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C513     | VE-30012583 | CAP SMD   | 1.5NF 50V K       |
| C313     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C514     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C314     | VE-30000109 | CAP MKT   | 470NF 63V J       | C515     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C315     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C517     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C316     | VE-30000352 | CAP EL    | 100UF 16V M       | C519     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C317     | VE-30012569 | CAP SMD   | 33PF 50V J        | C520     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C318     | VE-30012569 | CAP SMD   | 33PF 50V J        | C522     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C319     | VE-30000371 | CAP EL    | 22UF 50V M        | C523     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C320     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C524     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C321     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C525     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C324     | VE-30000371 | CAP EL    | 22UF 50V M        | C526     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C325     | VE-30012611 | CAP SMD   | 120PF 50V J       | C527     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C326     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C600     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C327     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C601     | VE-30000074 | CAP MKT   | 100NF 63V J       |
| C328     | VE-30000393 | CAP EL    | 3.3UF 50V M       | C602     | VE-30000074 | CAP MKT   | 100NF 63V J       |

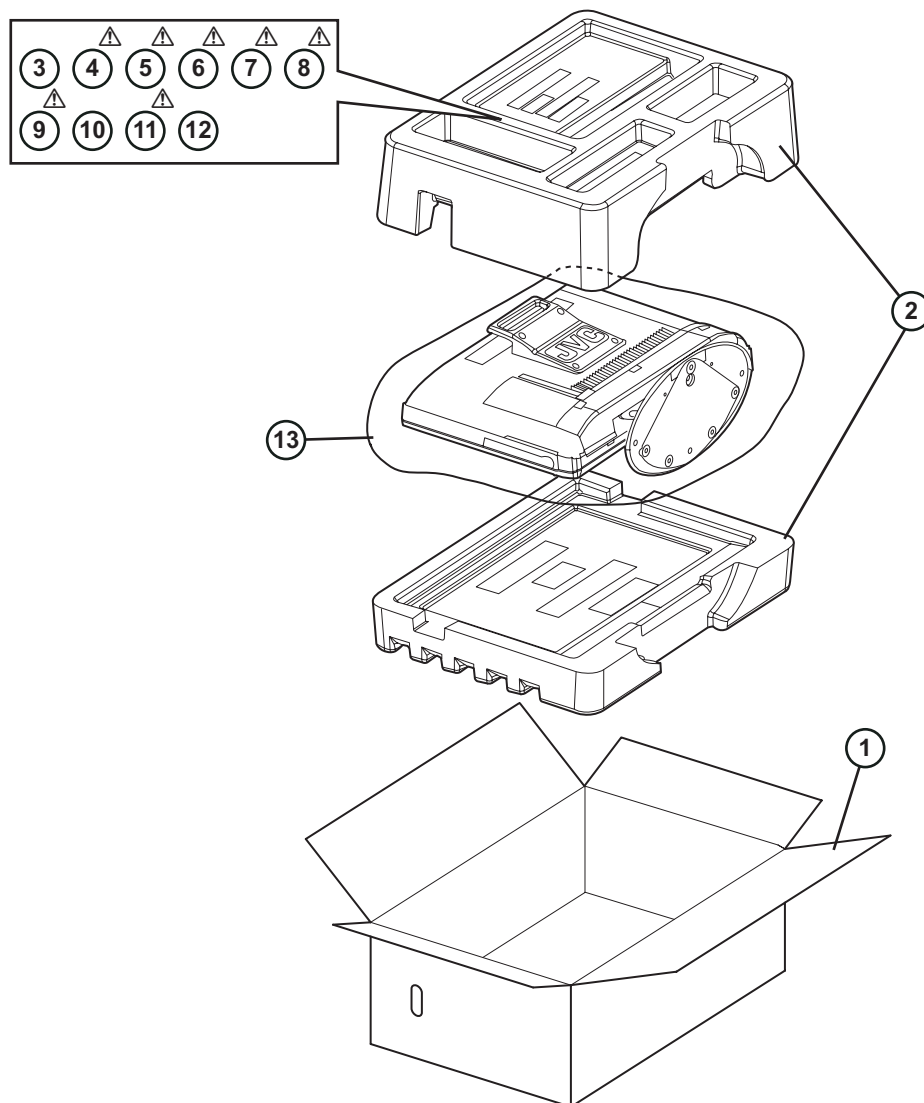
| △Ref No. | Part No.    | Part Name | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|-----------|-------------------|----------|-------------|-----------|-------------------|
| C603     | VE-30000074 | CAP MKT   | 100NF 63V J       | C775     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C604     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C776     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C605     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C777     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C606     | VE-30000074 | CAP MKT   | 100NF 63V J       | C778     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C607     | VE-30012569 | CAP SMD   | 33PF 50V J        | C779     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| C608     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C780     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C609     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C781     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C610     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C782     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C611     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C783     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C612     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C784     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C613     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C785     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C614     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C786     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C700     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C787     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C701     | VE-30012587 | CAP SMD   | 3.3NF 50V K       | C788     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C702     | VE-30000352 | CAP EL    | 100UF 16V M       | C789     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C703     | VE-30012587 | CAP SMD   | 3.3NF 50V K       | C790     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C704     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C791     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C705     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C792     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C706     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C793     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C707     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C794     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C708     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C795     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C709     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C796     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C710     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C797     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C711     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C798     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C712     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C799     | VE-30012567 | CAP SMD   | 220PF 50V J       |
| C713     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C801     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C714     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C802     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C715     | VE-30000393 | CAP EL    | 3.3UF 50V M       | C803     | VE-30000345 | CAP EL    | 10UF 50V M        |
| C716     | VE-30000345 | CAP EL    | 10UF 50V M        | C804     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C717     | VE-30000345 | CAP EL    | 10UF 50V M        | C805     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C718     | VE-30000345 | CAP EL    | 10UF 50V M        | C806     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C719     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C807     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C720     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C808     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C721     | VE-30012565 | CAP SMD   | 1.8PF 50V J CH    | C810     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C722     | VE-30012565 | CAP SMD   | 1.8PF 50V J CH    | C811     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C723     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C812     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C724     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C814     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C725     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C815     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C726     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C816     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C727     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C817     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C728     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C818     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C729     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C820     | VE-30000315 | CAP SMD   | 220NF 25V Z       |
| C730     | VE-30012607 | CAP SMD   | 150PF 50V J       | C823     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C731     | VE-30012607 | CAP SMD   | 150PF 50V J       | C824     | VE-30012560 | CAP SMD   | 100PF 50V J       |
| C732     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C825     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C733     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C827     | VE-30000352 | CAP EL    | 100UF 16V M       |
| C734     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C828     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C735     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C829     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C736     | VE-30000352 | CAP EL    | 100UF 16V M       | C831     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C737     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C832     | VE-30012562 | CAP SMD   | 15PF 50V J        |
| C738     | VE-30000352 | CAP EL    | 100UF 16V M       | C833     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C739     | VE-30000362 | CAP EL    | 1UF 50V M         | C834     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C740     | VE-30012583 | CAP SMD   | 1.5NF 50V K       | C835     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C741     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C837     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C742     | VE-30000371 | CAP EL    | 22UF 50V M        | C839     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C743     | VE-30000371 | CAP EL    | 22UF 50V M        | C840     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C744     | VE-30000371 | CAP EL    | 22UF 50V M        | C846     | VE-30000407 | CAP EL    | 470UF 16V M       |
| C745     | VE-30000371 | CAP EL    | 22UF 50V M        | C847     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C746     | VE-30012567 | CAP SMD   | 220PF 50V J       | C848     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C747     | VE-30012574 | CAP SMD   | 470PF 50V J       | C849     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C748     | VE-30012582 | CAP SMD   | 10NF 50V K R      | C850     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C749     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C851     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C750     | VE-30012576 | CAP SMD   | 56PF 50V J CH     | C852     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C751     | VE-30000407 | CAP EL    | 470UF 16V M       | C853     | VE-30012574 | CAP SMD   | 470PF 50V J       |
| C752     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C858     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C753     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C859     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C754     | VE-30012574 | CAP SMD   | 470PF 50V J       | C860     | VE-30012569 | CAP SMD   | 33PF 50V J        |
| C755     | VE-30012574 | CAP SMD   | 470PF 50V J       | C861     | VE-30020694 | CAP SMD   | 1UF 16V Z Y5V     |
| C756     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C862     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C757     | VE-30012585 | CAP SMD   | 2.2NF 50V K R     | C863     | VE-30012581 | CAP SMD   | 1NF 50V K R       |
| C758     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C900     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C759     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C903     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C760     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C904     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C761     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C907     | VE-30000294 | CAP SMD   | 100NF 50V K       |
| C762     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C908     | VE-30000359 | CAP EL    | 1000UF 16V M      |
| C763     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C909     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C764     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C910     | VE-30000354 | CAP EL    | 100UF 35V M       |
| C765     | VE-30012589 | CAP SMD   | 4.7NF 50V K       | C911     | VE-30012582 | CAP SMD   | 10NF 50V K R      |
| C766     | VE-30016654 | CAP SMD   | 100NF 16V K R     | C912     | VE-30000359 | CAP EL    | 1000UF 16V M      |
| C767     | VE-30012607 | CAP SMD   | 150PF 50V J       | C913     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C768     | VE-30012607 | CAP SMD   | 150PF 50V J       | C915     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C769     | VE-30000371 | CAP EL    | 22UF 50V M        | C916     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C770     | VE-30000371 | CAP EL    | 22UF 50V M        | C917     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C771     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C918     | VE-30000371 | CAP EL    | 22UF 50V M        |
| C772     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C919     | VE-30016654 | CAP SMD   | 100NF 16V K R     |
| C773     | VE-30000315 | CAP SMD   | 220NF 25V Z       | C924     | VE-30012576 | CAP SMD   | 56PF 50V J CH     |
| C774     | VE-30012581 | CAP SMD   | 1NF 50V K R       | C925     | VE-30012560 | CAP SMD   | 100PF 50V J       |

| △Ref No. | Part No.    | Part Name   | Description Local | △Ref No. | Part No.    | Part Name  | Description Local |
|----------|-------------|-------------|-------------------|----------|-------------|------------|-------------------|
| C926     | VE-30000371 | CAP EL      | 22UF 50V M        | R172     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C927     | VE-30000294 | CAP SMD     | 100NF 50V K       | R173     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C928     | VE-30000345 | CAP EL      | 10UF 50V M        | R174     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C929     | VE-30000294 | CAP SMD     | 100NF 50V K       | R175     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C930     | VE-30000371 | CAP EL      | 22UF 50V M        | R176     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C932     | VE-30000294 | CAP SMD     | 100NF 50V K       | R177     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C933     | VE-30000294 | CAP SMD     | 100NF 50V K       | R178     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C934     | VE-30031594 | CAP EL      | 2200UF 10V M      | R179     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C935     | VE-30016654 | CAP SMD     | 100NF 16V K R     | R180     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C936     | VE-30016654 | CAP SMD     | 100NF 16V K R     | R181     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C937     | VE-30000371 | CAP EL      | 22UF 50V M        | R182     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| C938     | VE-30000352 | CAP EL      | 100UF 16V M       | R183     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| C941     | VE-30000294 | CAP SMD     | 100NF 50V K       | R184     | VE-30012657 | RES SMD    | 1/16W 1K J        |
|          |             |             |                   | R185     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| R1       | VE-30000689 | RES CF      | 1/4W 3.9K J       | R189     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R1       | VE-30012510 | RES SMD     | 1/16W 100R J      | R197     | VE-30021996 | RES SMD    | 1/16W 10K J       |
| R2       | VE-30000526 | RES CF      | 1/4W 1.5K J       | R300     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R3       | VE-30000770 | RES CF      | 1/4W 680R J       | R301     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R4       | VE-30000712 | RES CF      | 1/4W 470R J       | R302     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R5       | VE-30000622 | RES CF      | 1/4W 270R J       | R303     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R100     | VE-30012713 | RES SMD     | 1/16W 75R J       | R304     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R100     | VE-30014128 | RES SMD     | 1/16W 33R J       | R305     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R101     | VE-30012713 | RES SMD     | 1/16W 75R J       | R306     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R101     | VE-30014128 | RES SMD     | 1/16W 33R J       | R307     | VE-30018409 | RES SARRAY | 1/16W 330R J      |
| R102     | VE-30012641 | RES SMD     | 1/16W 10K J       | R308     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R102     | VE-30012713 | RES SMD     | 1/16W 75R J       | R309     | VE-30012669 | RES SMD    | 1/16W 22K J       |
| R103     | VE-30012641 | RES SMD     | 1/16W 10K J       | R310     | VE-30012510 | RES SMD    | 1/16W 100R J      |
| R103     | VE-30012713 | RES SMD     | 1/16W 75R J       | R311     | VE-30012510 | RES SMD    | 1/16W 100R J      |
| R104     | VE-30000594 | RES CF      | 1/4W 22K J        | R312     | VE-30012510 | RES SMD    | 1/16W 100R J      |
| R104     | VE-30012713 | RES SMD     | 1/16W 75R J       | R313     | VE-30012679 | RES SMD    | 1/16W 3.9K J      |
| R105     | VE-30000466 | RES CF      | 1/4W 1K J         | R314     | VE-30012679 | RES SMD    | 1/16W 3.9K J      |
| R105     | VE-30012641 | RES SMD     | 1/16W 10K J       | R315     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R106     | VE-30000594 | RES CF      | 1/4W 22K J        | R316     | VE-30012679 | RES SMD    | 1/16W 3.9K J      |
| R106     | VE-30012641 | RES SMD     | 1/16W 10K J       | R317     | VE-30012650 | RES SMD    | 1/16W 15K J       |
| R107     | VE-30000466 | RES CF      | 1/4W 1K J         | R318     | VE-30012659 | RES SMD    | 1/16W 2.2K J      |
| R107     | VE-30012510 | RES SMD     | 1/16W 100R J      | R319     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R108     | VE-30000650 | RES CF      | 1/4W 33R J        | R320     | VE-30012659 | RES SMD    | 1/16W 2.2K J      |
| R108     | VE-30012510 | RES SMD     | 1/16W 100R J      | R321     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R109     | VE-30000650 | RES CF      | 1/4W 33R J        | R322     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R109     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | R323     | VE-30012987 | RES SMD    | 1/16W 56R J       |
| R110     | VE-30000594 | RES CF      | 1/4W 22K J        | R324     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R110     | VE-30012692 | RES SMD     | 1/16W 4.7K J      | R325     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R111     | VE-30000712 | RES CF      | 1/4W 470R J       | R326     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R111     | VE-30012510 | RES SMD     | 1/16W 100R J      | R327     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R112     | VE-30000594 | RES CF      | 1/4W 22K J        | R328     | VE-30012685 | RES SMD    | 1/16W 33K J       |
| R113     | VE-30000712 | RES CF      | 1/4W 470R J       | R329     | VE-30012685 | RES SMD    | 1/16W 33K J       |
| R114     | VE-30000594 | RES CF      | 1/4W 22K J        | R330     | VE-30012685 | RES SMD    | 1/16W 33K J       |
| R115     | VE-30000712 | RES CF      | 1/4W 470R J       | R331     | VE-30012685 | RES SMD    | 1/16W 33K J       |
| R121     | VE-30012677 | RES SMD     | 1/16W 3.3K J      | R332     | VE-30012510 | RES SMD    | 1/16W 100R J      |
| R122     | VE-30012510 | RES SMD     | 1/16W 100R J      | R333     | VE-30012510 | RES SMD    | 1/16W 100R J      |
| R123     | VE-30012510 | RES SMD     | 1/16W 100R J      | R334     | VE-30012705 | RES SMD    | 1/16W 6.8K J      |
| R127     | VE-30012641 | RES SMD     | 1/16W 10K J       | R335     | VE-30012705 | RES SMD    | 1/16W 6.8K J      |
| R128     | VE-30012641 | RES SMD     | 1/16W 10K J       | R336     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R130     | VE-30030692 | FERRITE NET | 100MHz            | R337     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R131     | VE-30030692 | FERRITE NET | 100MHz            | R339     | VE-30012509 | RES SMD    | 1/16W 100K J      |
| R132     | VE-30030692 | FERRITE NET | 100MHz            | R340     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R133     | VE-30030692 | FERRITE NET | 100MHz            | R341     | VE-30012644 | RES SMD    | 1/16W 12K J       |
| R134     | VE-30030692 | FERRITE NET | 100MHz            | R342     | VE-30012668 | RES SMD    | 1/16W 220R J      |
| R135     | VE-30030692 | FERRITE NET | 100MHz            | R343     | VE-30012668 | RES SMD    | 1/16W 220R J      |
| R136     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R344     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R137     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R345     | VE-30012669 | RES SMD    | 1/16W 22K J       |
| R138     | VE-30012506 | RES SMD     | 1/16W 1.5K J      | R346     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R139     | VE-30012657 | RES SMD     | 1/16W 1K J        | R347     | VE-30014022 | RES SMD    | 1/16W 47R J       |
| R141     | VE-30012641 | RES SMD     | 1/16W 10K J       | R348     | VE-30012655 | RES SMD    | 1/16W 180R J      |
| R142     | VE-30012657 | RES SMD     | 1/16W 1K J        | R349     | VE-30014022 | RES SMD    | 1/16W 47R J       |
| R143     | VE-30012657 | RES SMD     | 1/16W 1K J        | R350     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R145     | VE-30012510 | RES SMD     | 1/16W 100R J      | R352     | VE-30012669 | RES SMD    | 1/16W 22K J       |
| R146     | VE-30012510 | RES SMD     | 1/16W 100R J      | R353     | VE-30012641 | RES SMD    | 1/16W 10K J       |
| R147     | VE-30012510 | RES SMD     | 1/16W 100R J      | R354     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R148     | VE-30012510 | RES SMD     | 1/16W 100R J      | R355     | VE-30012659 | RES SMD    | 1/16W 2.2K J      |
| R149     | VE-30012641 | RES SMD     | 1/16W 10K J       | R356     | VE-30012669 | RES SMD    | 1/16W 22K J       |
| R150     | VE-30012657 | RES SMD     | 1/16W 1K J        | R357     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R151     | VE-30012657 | RES SMD     | 1/16W 1K J        | R358     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R152     | VE-30012655 | RES SMD     | 1/16W 180R J      | R359     | VE-30012659 | RES SMD    | 1/16W 2.2K J      |
| R156     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R360     | VE-30012506 | RES SMD    | 1/16W 1.5K J      |
| R157     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R361     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R158     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R362     | VE-30012982 | RES SMD    | 1/16W 10R J       |
| R159     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R363     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R160     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R364     | VE-30012695 | RES SMD    | 1/16W 470R J      |
| R161     | VE-30017653 | RES SARRAY  | 1/16W 47RX4 J     | R368     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R162     | VE-30012509 | RES SMD     | 1/16W 100K J      | R369     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R165     | VE-30025836 | FERRITE NET | 100MHz            | R370     | VE-30012669 | RES SMD    | 1/16W 22K J       |
| R166     | VE-30025836 | FERRITE NET | 100MHz            | R371     | VE-30012657 | RES SMD    | 1/16W 1K J        |
| R167     | VE-30020529 | FERRITE SMD |                   | R372     | VE-30014022 | RES SMD    | 1/16W 47R J       |
| R168     | VE-30012641 | RES SMD     | 1/16W 10K J       | R373     | VE-30012655 | RES SMD    | 1/16W 180R J      |
| R169     | VE-30012641 | RES SMD     | 1/16W 10K J       | R374     | VE-30012692 | RES SMD    | 1/16W 4.7K J      |
| R170     | VE-30012641 | RES SMD     | 1/16W 10K J       | R375     | VE-30012684 | RES SMD    | 1/16W 330R J      |

| △Ref No. | Part No.    | Part Name  | Description Local | △Ref No. | Part No.    | Part Name | Description Local |
|----------|-------------|------------|-------------------|----------|-------------|-----------|-------------------|
| R376     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R605     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R377     | VE-30012684 | RES SMD    | 1/16W 330R J      | R606     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R378     | VE-30012684 | RES SMD    | 1/16W 330R J      | R607     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R379     | VE-30012510 | RES SMD    | 1/16W 100R J      | R608     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R380     | VE-30012669 | RES SMD    | 1/16W 22K J       | R609     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R381     | VE-30012657 | RES SMD    | 1/16W 1K J        | R610     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R382     | VE-30012982 | RES SMD    | 1/16W 10R J       | R611     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R383     | VE-30012650 | RES SMD    | 1/16W 15K J       | R612     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R384     | VE-30012679 | RES SMD    | 1/16W 3.9K J      | R613     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R385     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R614     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R386     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R615     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R387     | VE-30012506 | RES SMD    | 1/16W 1.5K J      | R617     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R388     | VE-30012641 | RES SMD    | 1/16W 10K J       | R618     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R389     | VE-30012641 | RES SMD    | 1/16W 10K J       | R619     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R390     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R620     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R391     | VE-30012696 | RES SMD    | 1/16W 47K J       | R621     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R392     | VE-30012696 | RES SMD    | 1/16W 47K J       | R622     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R393     | VE-30012510 | RES SMD    | 1/16W 100R J      | R623     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R394     | VE-30012641 | RES SMD    | 1/16W 10K J       | R625     | VE-30012982 | RES SMD   | 1/16W 10R J       |
| R395     | VE-30012684 | RES SMD    | 1/16W 330R J      | R626     | VE-30012695 | RES SMD   | 1/16W 470R J      |
| R396     | VE-30012684 | RES SMD    | 1/16W 330R J      | R627     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R397     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R628     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R399     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R629     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R400     | VE-30012713 | RES SMD    | 1/16W 75R J       | R630     | VE-30000797 | RES SMD   | 1/10W 75R J       |
| R401     | VE-30012713 | RES SMD    | 1/16W 75R J       | R631     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R402     | VE-30012713 | RES SMD    | 1/16W 75R J       | R632     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R404     | VE-30012713 | RES SMD    | 1/16W 75R J       | R633     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R405     | VE-30012713 | RES SMD    | 1/16W 75R J       | R634     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R406     | VE-30012713 | RES SMD    | 1/16W 75R J       | R635     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R407     | VE-30012510 | RES SMD    | 1/16W 100R J      | R636     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R408     | VE-30012510 | RES SMD    | 1/16W 100R J      | R637     | VE-30012509 | RES SMD   | 1/16W 100K J      |
| R409     | VE-30012713 | RES SMD    | 1/16W 75R J       | R700     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R410     | VE-30012644 | RES SMD    | 1/16W 12K J       | R701     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R411     | VE-30012669 | RES SMD    | 1/16W 22K J       | R702     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R412     | VE-30014078 | RES SMD    | 1/16W 22R J       | R703     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R413     | VE-30012657 | RES SMD    | 1/16W 1K J        | R704     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R414     | VE-30012713 | RES SMD    | 1/16W 75R J       | R705     | VE-30012712 | RES SMD   | 1/16W 8.2K J      |
| R415     | VE-30012510 | RES SMD    | 1/16W 100R J      | R706     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R416     | VE-30018254 | RES SARRAY | 1/16W 10R J       | R707     | VE-30012712 | RES SMD   | 1/16W 8.2K J      |
| R417     | VE-30018254 | RES SARRAY | 1/16W 10R J       | R708     | VE-30012665 | RES SMD   | 1/16W 20K J       |
| R425     | VE-30012695 | RES SMD    | 1/16W 470R J      | R709     | VE-30012665 | RES SMD   | 1/16W 20K J       |
| R426     | VE-30012695 | RES SMD    | 1/16W 470R J      | R710     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R427     | VE-30012695 | RES SMD    | 1/16W 470R J      | R711     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R431     | VE-30012657 | RES SMD    | 1/16W 1K J        | R712     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R432     | VE-30012657 | RES SMD    | 1/16W 1K J        | R713     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R434     | VE-30012657 | RES SMD    | 1/16W 1K J        | R714     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R437     | VE-30012713 | RES SMD    | 1/16W 75R J       | R715     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R438     | VE-30012713 | RES SMD    | 1/16W 75R J       | R716     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R439     | VE-30012713 | RES SMD    | 1/16W 75R J       | R717     | VE-30012702 | RES SMD   | 1/16W 560R J      |
| R440     | VE-30012641 | RES SMD    | 1/16W 10K J       | R718     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R441     | VE-30012641 | RES SMD    | 1/16W 10K J       | R719     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R442     | VE-30012641 | RES SMD    | 1/16W 10K J       | R723     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R443     | VE-30012641 | RES SMD    | 1/16W 10K J       | R724     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R450     | VE-30012659 | RES SMD    | 1/16W 2.2K J      | R725     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R454     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R726     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R456     | VE-30012510 | RES SMD    | 1/16W 100R J      | R727     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R457     | VE-30012510 | RES SMD    | 1/16W 100R J      | R729     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R503     | VE-30012510 | RES SMD    | 1/16W 100R J      | R731     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R504     | VE-30012510 | RES SMD    | 1/16W 100R J      | R732     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R505     | VE-30012510 | RES SMD    | 1/16W 100R J      | R734     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R506     | VE-30012510 | RES SMD    | 1/16W 100R J      | R735     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R507     | VE-30012698 | RES SMD    | 1/16W 5.6K J      | R736     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R508     | VE-30012510 | RES SMD    | 1/16W 100R J      | R737     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R509     | VE-30012641 | RES SMD    | 1/16W 10K J       | R738     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R510     | VE-30012644 | RES SMD    | 1/16W 12K J       | R739     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R511     | VE-30012696 | RES SMD    | 1/16W 47K J       | R740     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R512     | VE-30012684 | RES SMD    | 1/16W 330R J      | R741     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R513     | VE-30012713 | RES SMD    | 1/16W 75R J       | R742     | VE-30012642 | RES SMD   | 1/16W 120K J      |
| R514     | VE-30012669 | RES SMD    | 1/16W 22K J       | R743     | VE-30012644 | RES SMD   | 1/16W 12K J       |
| R515     | VE-30012669 | RES SMD    | 1/16W 22K J       | R744     | VE-30012696 | RES SMD   | 1/16W 47K J       |
| R516     | VE-30012695 | RES SMD    | 1/16W 470R J      | R745     | VE-30012689 | RES SMD   | 1/16W 39K J       |
| R517     | VE-30012659 | RES SMD    | 1/16W 2.2K J      | R746     | VE-30012674 | RES SMD   | 1/16W 27K J       |
| R518     | VE-30012510 | RES SMD    | 1/16W 100R J      | R747     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R522     | VE-30012685 | RES SMD    | 1/16W 33K J       | R748     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R523     | VE-30012677 | RES SMD    | 1/16W 3.3K J      | R749     | VE-30012668 | RES SMD   | 1/16W 220R J      |
| R524     | VE-30012643 | RES SMD    | 1/16W 120R J      | R751     | VE-30012510 | RES SMD   | 1/16W 100R J      |
| R525     | VE-30012707 | RES SMD    | 1/16W 680R J      | R752     | VE-30012657 | RES SMD   | 1/16W 1K J        |
| R527     | VE-30012705 | RES SMD    | 1/16W 6.8K J      | R753     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R528     | VE-30012574 | CAP SMD    | 470PF 50V J       | R754     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R529     | VE-30012982 | RES SMD    | 1/16W 10R J       | R756     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R530     | VE-30014022 | RES SMD    | 1/16W 47R J       | R757     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R531     | VE-30012692 | RES SMD    | 1/16W 4.7K J      | R759     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R600     | VE-30012713 | RES SMD    | 1/16W 75R J       | R760     | VE-30012641 | RES SMD   | 1/16W 10K J       |
| R601     | VE-30012713 | RES SMD    | 1/16W 75R J       | R761     | VE-30010560 | CAP SMD   | 220NF 25V K R     |
| R602     | VE-30012510 | RES SMD    | 1/16W 100R J      | R762     | VE-30012713 | RES SMD   | 1/16W 75R J       |
| R603     | VE-30012510 | RES SMD    | 1/16W 100R J      | R763     | VE-30012692 | RES SMD   | 1/16W 4.7K J      |
| R604     | VE-30012982 | RES SMD    | 1/16W 10R J       | R764     | VE-30012657 | RES SMD   | 1/16W 1K J        |

| △Ref No. | Part No.    | Part Name      | Description   | Local | △Ref No. | Part No.    | Part Name         | Description  | Local |
|----------|-------------|----------------|---------------|-------|----------|-------------|-------------------|--------------|-------|
| R765     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L711     | VE-30013412 | FERRITE SMD       |              |       |
| R770     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L712     | VE-30013412 | FERRITE SMD       |              |       |
| R771     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L713     | VE-30001971 | FERRITE SMD       |              |       |
| R778     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L714     | VE-30001971 | FERRITE SMD       |              |       |
| R779     | VE-30012509 | RES SMD        | 1/16W 100K J  |       | L715     | VE-30001971 | FERRITE SMD       |              |       |
| R780     | VE-30012669 | RES SMD        | 1/16W 22K J   |       | L716     | VE-30001971 | FERRITE SMD       |              |       |
| R784     | VE-30010560 | CAP SMD        | 220NF 25V K R |       | L717     | VE-30001971 | FERRITE SMD       |              |       |
| R785     | VE-30010560 | CAP SMD        | 220NF 25V K R |       | L718     | VE-30024779 | FERRITE SMD       |              |       |
| R786     | VE-30012713 | RES SMD        | 1/16W 75R J   |       | L719     | VE-30024779 | FERRITE SMD       |              |       |
| R787     | VE-30012713 | RES SMD        | 1/16W 75R J   |       | L721     | VE-30024779 | FERRITE SMD       |              |       |
| R788     | VE-30012657 | RES SMD        | 1/16W 1K J    |       | L722     | VE-30024779 | FERRITE SMD       |              |       |
| R800     | VE-30012692 | RES SMD        | 1/16W 4.7K J  |       | L723     | VE-30001971 | FERRITE SMD       |              |       |
| R801     | VE-30014128 | RES SMD        | 1/16W 33R J   |       | L724     | VE-30013412 | FERRITE SMD       |              |       |
| R901     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L725     | VE-30013412 | FERRITE SMD       |              |       |
| R902     | VE-30012509 | RES SMD        | 1/16W 100K J  |       | L726     | VE-30001971 | FERRITE SMD       |              |       |
| R903     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L727     | VE-30001971 | FERRITE SMD       |              |       |
| R904     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L728     | VE-30001971 | FERRITE SMD       |              |       |
| R905     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | L729     | VE-30001971 | FERRITE SMD       |              |       |
| R906     | VE-30012509 | RES SMD        | 1/16W 100K J  |       | L734     | VE-30001971 | FERRITE SMD       |              |       |
| R907     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | L800     | VE-30018093 | FIXED COIL SMD    | 3.3uH        |       |
| R908     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | L801     | VE-30002170 | FERRITE CORE      |              |       |
| R909     | VE-30012677 | RES SMD        | 1/16W 3.3K J  |       | L802     | VE-30020394 | FERRITE SMD       |              |       |
| R910     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | L803     | VE-30020394 | FERRITE SMD       |              |       |
| R911     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | L805     | VE-30001971 | FERRITE SMD       |              |       |
| R912     | VE-30012655 | RES SMD        | 1/16W 180R J  |       | L900     | VE-30002170 | FERRITE CORE      |              |       |
| R913     | VE-30012659 | RES SMD        | 1/16W 2.2K J  |       | L901     | VE-30019475 | FIXED COIL        | 47UH         |       |
| R915     | VE-30012703 | RES SMD        | 1/16W 56K J   |       | L906     | VE-30001996 | FIXED COIL        | 22UH         |       |
| R916     | VE-30000833 | RES SMD        | 1/10W 91R J   |       | L907     | VE-30002170 | FERRITE CORE      |              |       |
| R917     | VE-30000833 | RES SMD        | 1/10W 91R J   |       | L908     | VE-30019475 | FIXED COIL        | 47UH         |       |
| R918     | VE-30012705 | RES SMD        | 1/16W 6.8K J  |       | L910     | VE-30002002 | FIXED COIL        | 47UH         |       |
| R919     | VE-30000833 | RES SMD        | 1/10W 91R J   |       | L911     | VE-30011450 | FIXED COIL        | 22UH         |       |
| R920     | VE-30000717 | RES SMD        | 1/10W 470R J  |       |          |             |                   |              |       |
| R921     | VE-30006462 | RES SMD        | 1/10W 22R J   |       | △F900    | VE-30018031 | FUSE              | 4A           |       |
| R922     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | △F901    | VE-30028331 | FUSE              | 7A           |       |
| R923     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK100    | VE-30001900 | JACK HEADPHONE    | HP01         |       |
| R924     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK101    | VE-30001893 | RCA JACK          |              |       |
| R925     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK102    | VE-30001891 | RCA JACK          |              |       |
| R926     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK103    | VE-30001892 | RCA JACK          |              |       |
| R927     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK104    | VE-30001895 | JACK              | FOR SVHS     |       |
| R928     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK105    | VE-30001891 | RCA JACK          |              |       |
| R929     | VE-30012669 | RES SMD        | 1/16W 22K J   |       | JK106    | VE-30001892 | RCA JACK          |              |       |
| R930     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK107    | VE-30033200 | RCA JACK          | 1P BLACK     |       |
| R931     | VE-30012641 | RES SMD        | 1/16W 10K J   |       | JK700    | VE-30001902 | JACK HEADPHONE    | STEREO WO/SW |       |
| R933     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | JK702    | VE-30001891 | RCA JACK          |              |       |
| R934     | VE-30012510 | RES SMD        | 1/16W 100R J  |       | JK703    | VE-30001892 | RCA JACK          |              |       |
| R935     | VE-30012659 | RES SMD        | 1/16W 2.2K J  |       | JK704    | VE-30001892 | RCA JACK          |              |       |
|          |             |                |               |       | JK705    | VE-30032233 | RCA JACK          | 1P GREEN     |       |
| L100     | VE-30001996 | FIXED COIL     | 22UH          |       | JK706    | VE-30032234 | RCA JACK          | 1P BLUE      |       |
| L101     | VE-30001996 | FIXED COIL     | 22UH          |       | JK901    | VE-30027932 | DC POWER SOCKET   | 7.5A         |       |
| L101     | VE-30001971 | FERRITE SMD    |               |       | PL100    | VE-30030582 | CONN MALE 6P MOL  |              |       |
| L102     | VE-30001979 | FIXED COIL     | 1UH           |       | PL101    | VE-30032051 | D SOCKET          | D-SUB 15P    |       |
| L103     | VE-30001979 | FIXED COIL     | 1UH           |       | PL306    | VE-30021298 | CONN MALE 12P MOL |              |       |
| L104     | VE-30001971 | FERRITE SMD    |               |       | PL700    | VE-30018089 | SOCKET SCART      |              |       |
| L105     | VE-30001971 | FERRITE SMD    |               |       | PL701    | VE-30018089 | SOCKET SCART      |              |       |
| L109     | VE-30001971 | FERRITE SMD    |               |       | PL702    | VE-30021298 | CONN MALE 12P MOL |              |       |
| L110     | VE-30001971 | FERRITE SMD    |               |       | PL707    | VE-30030582 | CONN MALE 6P MOL  |              |       |
| L111     | VE-30001971 | FERRITE SMD    |               |       | S100     | VE-30006712 | FERRITE BEAD      |              |       |
| L113     | VE-30020896 | FERRITE SMD    | 100MHz        |       | S102     | VE-30006712 | FERRITE BEAD      |              |       |
| L300     | VE-30017143 | FIXED COIL SMD | 22UH          |       | S103     | VE-30006712 | FERRITE BEAD      |              |       |
| L301     | VE-30018093 | FIXED COIL SMD | 3.3uH         |       | S104     | VE-30006712 | FERRITE BEAD      |              |       |
| L302     | VE-30018093 | FIXED COIL SMD | 3.3uH         |       | S105     | VE-30006712 | FERRITE BEAD      |              |       |
| L303     | VE-30018093 | FIXED COIL SMD | 3.3uH         |       | S106     | VE-30006712 | FERRITE BEAD      |              |       |
| L304     | VE-30001990 | FIXED COIL     | 6.8UH         |       | S730     | VE-30012695 | RES SMD           | 1/16W 470R J |       |
| L305     | VE-30001990 | FIXED COIL     | 6.8UH         |       | SW1      | VE-30002181 | SWITCH TACT       |              |       |
| L306     | VE-30001971 | FERRITE SMD    |               |       | SW2      | VE-30002181 | SWITCH TACT       |              |       |
| L307     | VE-30006712 | FERRITE BEAD   |               |       | SW3      | VE-30002181 | SWITCH TACT       |              |       |
| L308     | VE-30002170 | FERRITE CORE   |               |       | SW4      | VE-30002181 | SWITCH TACT       |              |       |
| L309     | VE-30001971 | FERRITE SMD    |               |       | SW5      | VE-30002181 | SWITCH TACT       |              |       |
| L401     | VE-30001971 | FERRITE SMD    |               |       | SW7      | VE-30002181 | SWITCH TACT       |              |       |
| L402     | VE-30001971 | FERRITE SMD    |               |       | SW17     | VE-30002181 | SWITCH TACT       |              |       |
| L408     | VE-30001971 | FERRITE SMD    |               |       | △TU500   | VE-30020654 | TUNER WSP (PLL)   |              |       |
| L409     | VE-30001996 | FIXED COIL     | 22UH          |       | X100     | VE-30017946 | XTAL              |              |       |
| L501     | VE-30001971 | FERRITE SMD    |               |       | X300     | VE-30006662 | XTAL              |              |       |
| L502     | VE-30001971 | FERRITE SMD    |               |       | X400     | VE-30008778 | XTAL              |              |       |
| L503     | VE-30001971 | FERRITE SMD    |               |       | X500     | VE-30021113 | XTAL              |              |       |
| L504     | VE-30001996 | FIXED COIL     | 22UH          |       | X700     | VE-30001756 | XTAL              |              |       |
| L600     | VE-30017143 | FIXED COIL SMD | 22UH          |       | Z500     | VE-30001692 | FILTER SAW        |              |       |
| L700     | VE-30001971 | FERRITE SMD    |               |       | Z501     | VE-30012545 | FILTER SAW        |              |       |
| L701     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L702     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L703     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L704     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L705     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L707     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L708     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L709     | VE-30001971 | FERRITE SMD    |               |       |          |             |                   |              |       |
| L710     | VE-30006712 | FERRITE BEAD   |               |       |          |             |                   |              |       |

# PACKING



## PACKING PARTS LIST

| Ref.No. | Part No.    | Part Name           | Description                                       | Local  |
|---------|-------------|---------------------|---|--|
| 1       | VE-20182791 | CARTON BOX          |   | LT-17C50BJ   |
| 1       | VE-20183541 | CARTON BOX          | For Germany/Netherland                            | LT-17C50BU   |
| 1       | VE-20183580 | CARTON BOX          | For Italy   | LT-17C50BU   |
| 1       | VE-20189935 | CARTON BOX          |   | LT-17C50BU/Z   |
| 1       | VE-20183538 | CARTON BOX          |   | LT-17C50SU,LT-17C50SU/Z                                    |
| 1       | VE-20184484 | CARTON BOX          |   | LT-17C88SJ   |
| 2       | VE-20174416 | SNOW BOX ASSY       | 2pcs in 1set                                      |  |
| 3       | VE-30034032 | REMOTE CONTROL UNIT |   |  |
| 4       | VE-50058073 | INST BOOK           | English   | LT-17C50BJ   |
| 4       | VE-50058334 | INST BOOK           | English/German/French/Italian/Spanish/Dutch       | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z            |
| 4       | VE-50058783 | INST BOOK           | English   | LT-17C88SJ   |
| 5       | VE-50058335 | INST BOOK           | Swedish/Danish/Norwegian/Finn                     | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z            |
| 6       | VE-50058336 | INST BOOK           | Polish/Czech/Hungarian/Bulgarian/Romanian/Russian | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z            |
| 7       | VE-50059714 | INST BOOK           | ES/Portuguese/Dutch                               | LT-17C50BU/Z,LT-17C50SU/Z                                  |
| 8       | VE-50059715 | INST BOOK           | Bulgarian/Russian/Romanian                        | LT-17C50BU/Z,LT-17C50SU/Z                                  |
| 9       | VE-30029332 | AC ADAPTER          |   | LT-17C50BU,LT-17C50BU/Z,LT-17C50SU,LT-17C50SU/Z,LT-17C88SJ |
| 10      | -----       | WARRANTY CARD       | BT-54023-1E                                       |  |
| 11      | VE-30024540 | POWER CORD          |   | LT-17C50BU,LT-17C50SU                                      |
| 11      | VE-30035135 | POWER CORD          |   | LT-17C50BU/Z,LT-17C50SU/Z                                  |
| 11      | VE-30028238 | POWER CORD          |   | LT-17C50BJ,LT-17C88SJ                                      |
| 12      | -----       | BATTERY             | AA/R06(x2)  |  |
| 13      | VE-50018337 | POLY BAG            |   |  |