

# TA-VE215

## SERVICE MANUAL

Ver 1.1 2001.03

AEP Model  
UK Model  
E Model  
Australian Model  
Chinese Model



- This set is the Amplifier section in HT-K215.

This amplifier incorporates Dolby\* Digital and Pro Logic Surround and the DTS\*\* Digital Surround System.

\* Manufactured under license from Dolby Laboratories.  
“Dolby”, “AC-3”, “Pro Logic” and the double-D symbol  are trademarks of Dolby Laboratories.

### SPECIFICATIONS

#### Amplifier section

##### POWER OUTPUT

##### Rated Power Output at Stereo mode

(8 ohms 1 kHz, THD  
0.7%)  
25 W + 25 W

##### Reference Power Output

(8 ohms 1 kHz, THD  
0.7%)  
Front: 25 W + 25 W  
Center: 25 W  
Rear: 25 W + 25 W

##### Frequency response

DVD, TV, VIDEO, AUX:  
20 Hz - 20 kHz + 0.5/  
-2 dB

##### Inputs (Analog)

5.1CH / SAT, TV, VIDEO:  
Sensitivity: 250 mV  
Impedance: 50  
kilohms  
S / N<sup>a)</sup>: 96 dB (A, 250  
mV<sup>b)</sup>)

##### Inputs (Digital)

DVD, AUX (optical):  
Sensitivity: –  
Impedance: –  
S / N: 100 dB (A, 20  
kHz LPF)

##### Outputs

SUB WOOFER:  
Voltage: 2 V  
Impedance: 1  
kilohms

#### General

##### Power requirements

220-230 V AC, 50 / 60 Hz

##### Power consumption

120 W

**Dimensions** 296.5 215 60 mm  
including projecting  
parts and controls

##### Mass (Approx.)

4.2 kg

HOME THEATER SYSTEM

**SONY**®

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- Grounding connection at the two points between the MAIN board and the chassis is necessary while the main power to the MAIN board is turned on.
  - Jig is used to inspect the DIGITAL board.
1. Between the DIGITAL board CNS807 and OPTICAL board CNP807  
8 P/L=300 (A-2501-2060A)
  2. Between the DIGITAL board CNS808 and SIGNAL BRIDGE board CNS808  
18 P/L=300 (A-2501-207-A)

### Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### SAFETY-RELATED COMPONENT WARNING!!

**COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

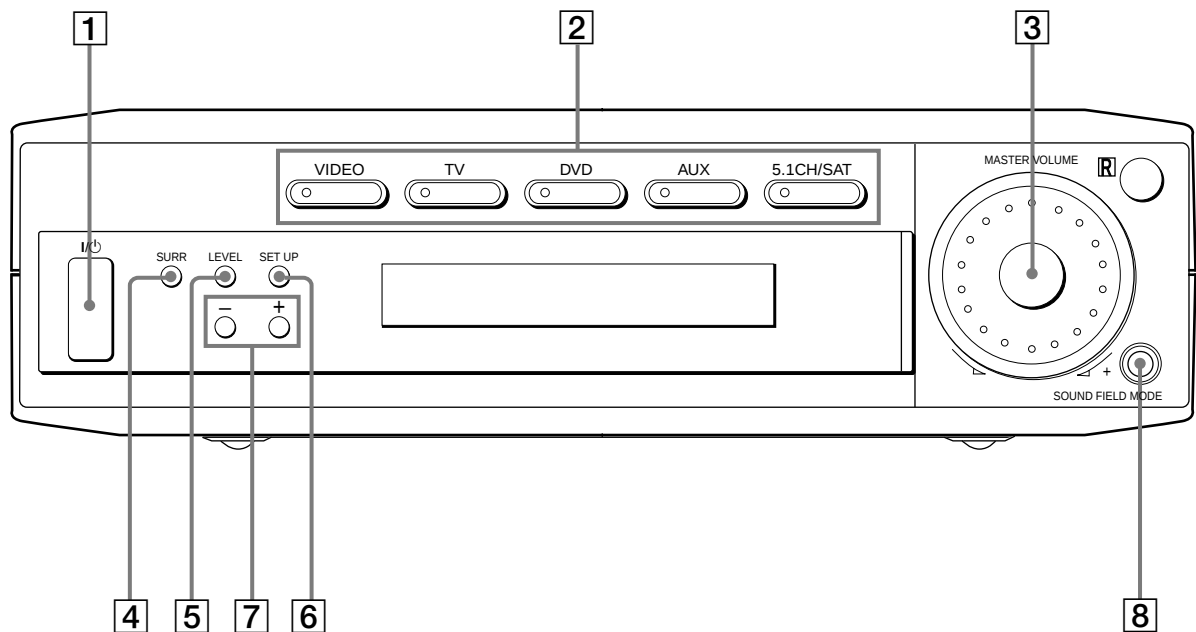
### 与安全有关的零部件须知

在原理图上用阴影及  $\triangle$  标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

## SECTION 1 GENERAL

This section is extracted from instruction manual.



### 1 I/⏻ switch

Press to turn the amplifier on and off.

### 2 Function buttons

Press one of the buttons to select the component you want to use.

| To select                | Press        |
|--------------------------|--------------|
| VCR                      | VIDEO        |
| TV                       | TV           |
| DVD player               | DVD          |
| An audio component       | AUX          |
| DVD through AC-3 decoder | 5.1 CH / SAT |

After selecting the component, turn on the component you selected and play the program source.

- After selecting VCR or DVD player, turn on the TV and set the TV's video input to match the component you selected.

### 3 MASTER VOLUME control

After turning on the component you selected, rotate to adjust the volume.

### 4 SURR button

Press repeatedly to activate the surround parameters (page 29) and to adjust the various surround parameters (effect level, wall type, etc.). You can then make various settings using the + / - buttons ([7]).

### 5 LEVEL button

Press repeatedly to activate the speaker level parameters (page 30) and to adjust the various speaker level parameters (front balance, rear balance, etc.). You can then make various settings using the + / - buttons ([7]).

### 6 SET UP button

Press repeatedly to activate the setup mode and to select any of the following indications. You can then make various settings using the + / - buttons ([7]).

| When you select  | You can                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Speaker type     | Specify the type of speakers. (page 15)                                                                                            |
| Speaker setup    | Specify the front, center, rear speaker sizes, the rear speaker position, and whether or not you are using a sub woofer. (page 15) |
| Speaker Distance | Specify the front, center, and rear speaker distances. (page 17)                                                                   |

### 7 +/- buttons

Press to adjust the selected speaker level and surround parameters (etc.).

### 8 SOUND FIELD MODE

Press repeatedly to activate the sound field selection mode and to select the sound field you want (page 24).

## SECTION 2 TEST MODE

### SOFTWARE VERSION DISPLAY MODE

\* The software version is displayed.

\* Procedure:

While depressing the [5.1CH/SAT] and the [VIDEO] buttons simultaneously, press the power [I/⏻] button to turn on the main power. The destination and the software version are displayed.

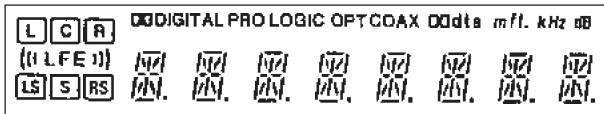
### FLUORESCENT INDICATOR TUBE TEST MODE

\* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

\* Procedure:

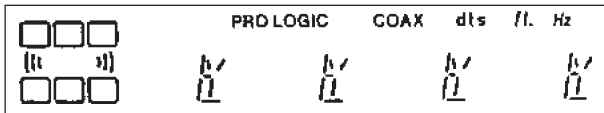
While depressing the [5.1CH/SAT] and the [+] buttons simultaneously, press the power [I/⏻] button to turn on the main power.

1. All segments turn on.



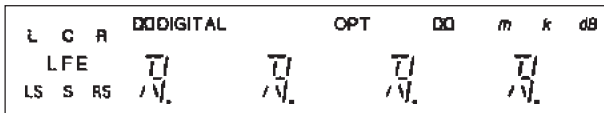
[TV] and [AUX] LED turn on.

2. Press the [VIDEO] button, confirm display



[VIDEO] and [DVD] LED turn on.

3. Press the [VIDEO] button, confirm display



[5.1CH/SAT] LED turn on.

4. Press the [VIDEO] button, All segments turn off.

5. Every pressing of the [VIDEO] button turns on each segment one after another in the same order.

(Not only the [VIDEO] button, but also the other buttons such as [TV], [DVD], [AUX] and [5.1CH/SAT] can be used.)

### ALL CLEAR MODE

\* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

\* Procedure:

While depressing the [SET UP] button simultaneously, press the power [I/⏻] button to turn on the main power. Alternatively, press [I/⏻] more than 4S. The message “ALL CLEAR” appears and initialization is performed.

### SURROUND CLEAR MODE

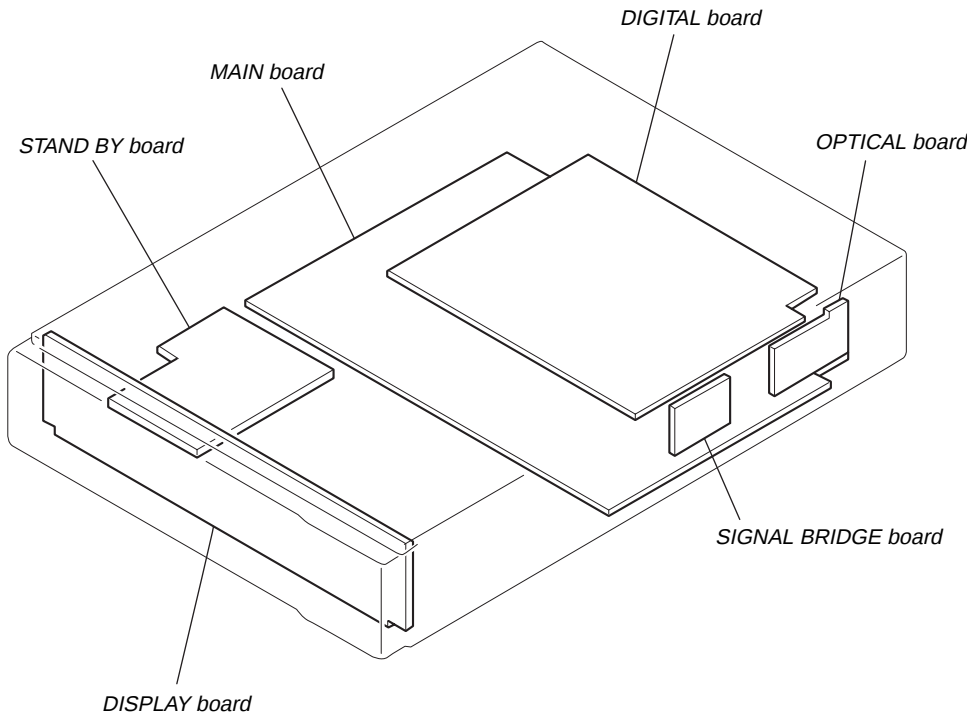
\* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

\* Procedure:

While depressing the [SOUND FIELD MODE] button, press the power [I/⏻] button to turn on the main power. The message “SUR CLR” appears and initialization is performed.

SECTION 3  
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



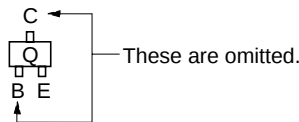
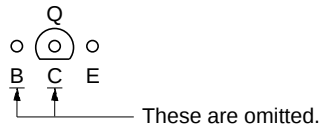
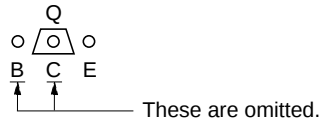
NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.

Caution:  
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
(Side B)  
Parts face side: Parts on the parts face side seen from the parts face are indicated.  
(Side A)

- Indication of transistor.



Note on Schematic Diagram:

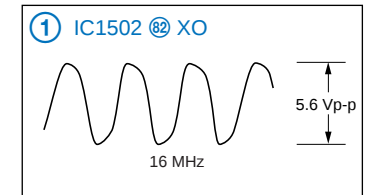
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- △ : internal component.
- ▨ : nonflammable resistor.
- ▨ : fusible resistor.
- ▨ : panel designation.

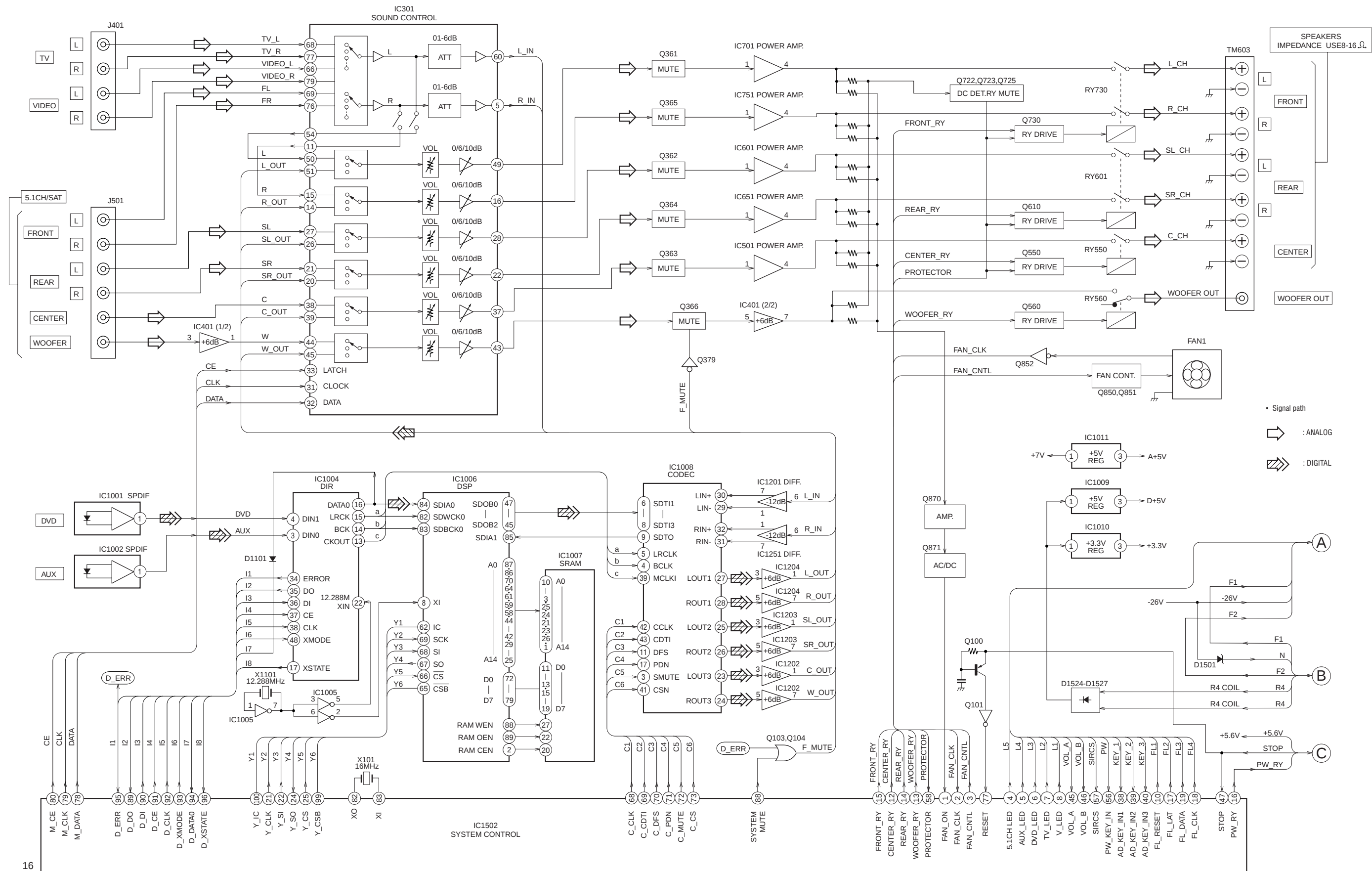
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

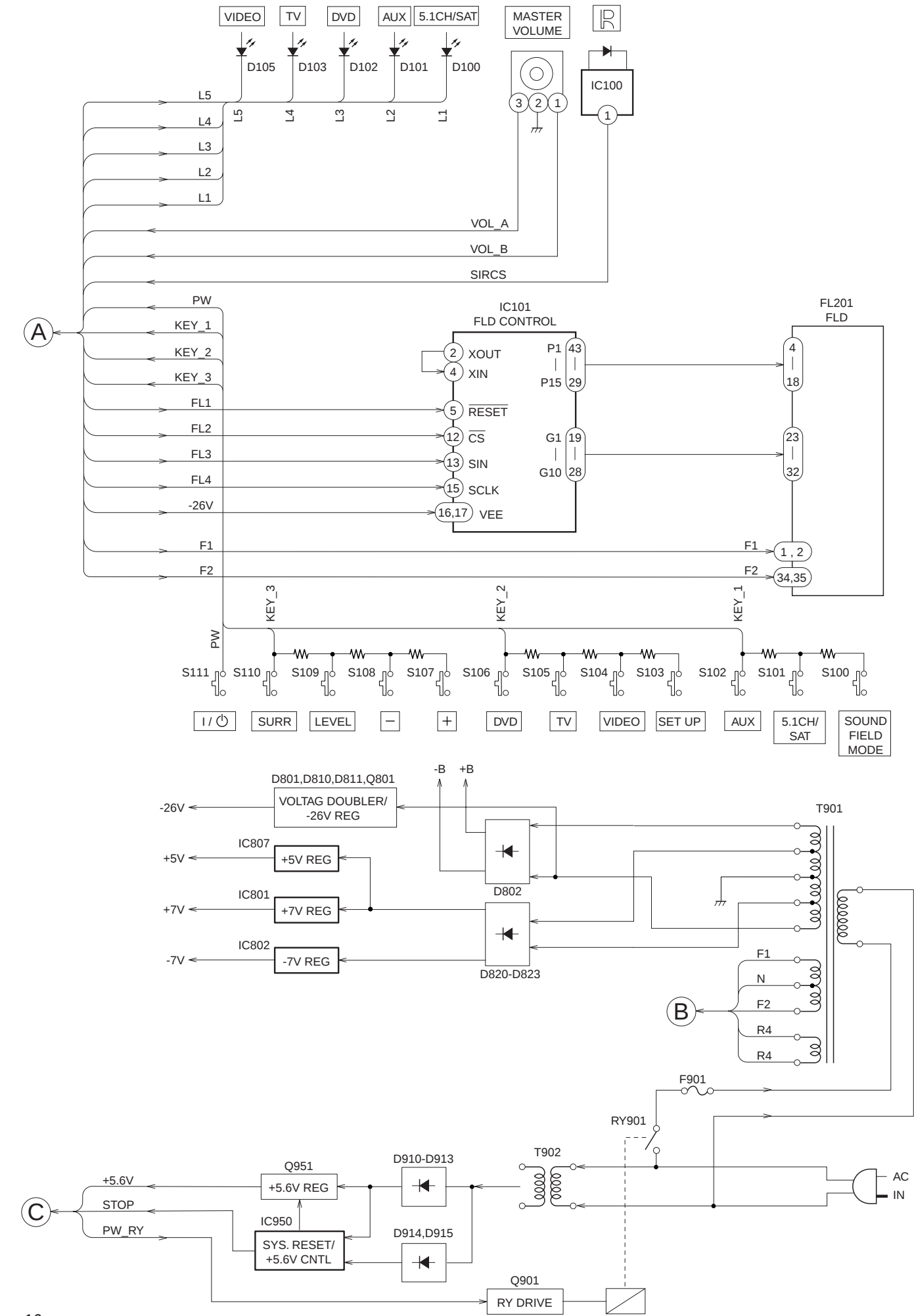
- ⊕ : B+ Line.
- ⊖ : B- Line.
- ⊕ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10  $\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇒ : ANALOG
  - ⇒⇒ : DIGITAL

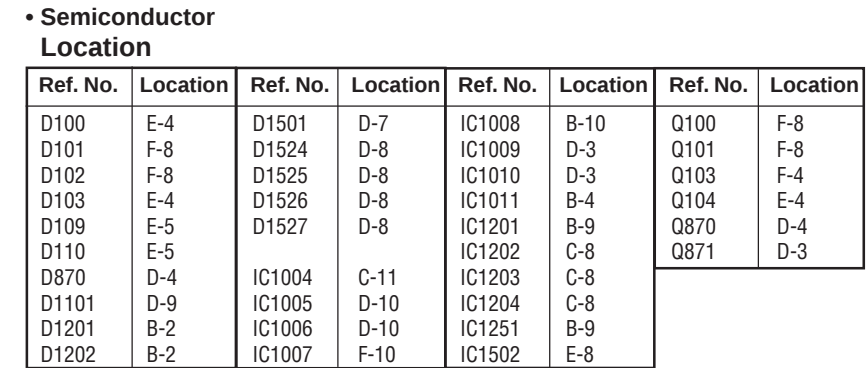
Waveform





— POWER SECTION —





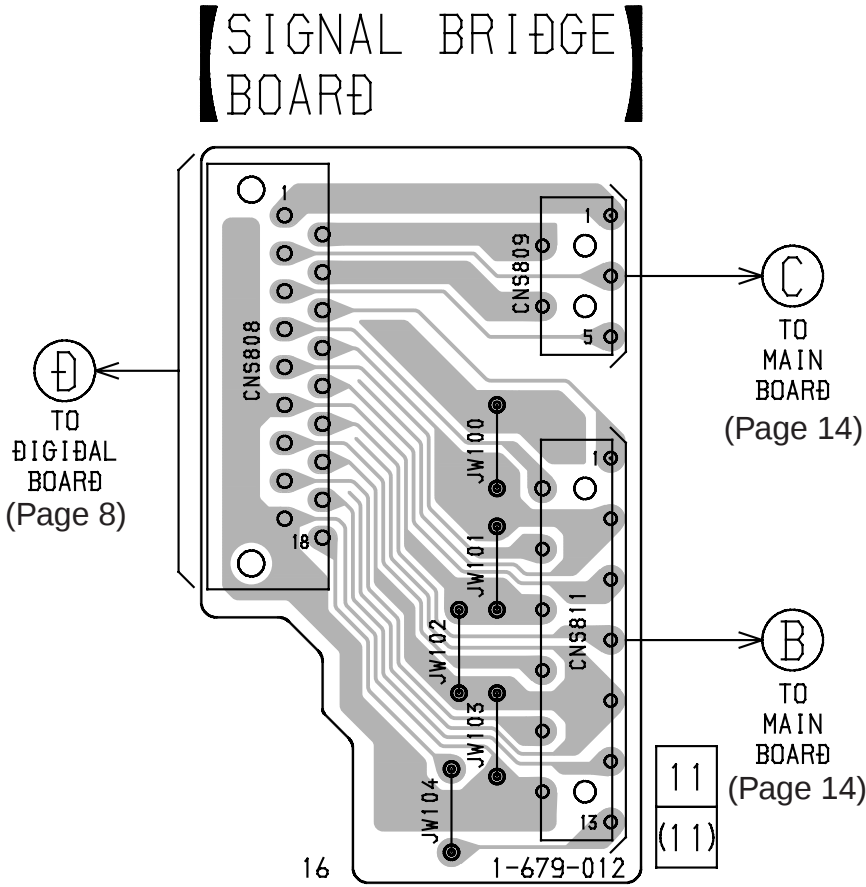
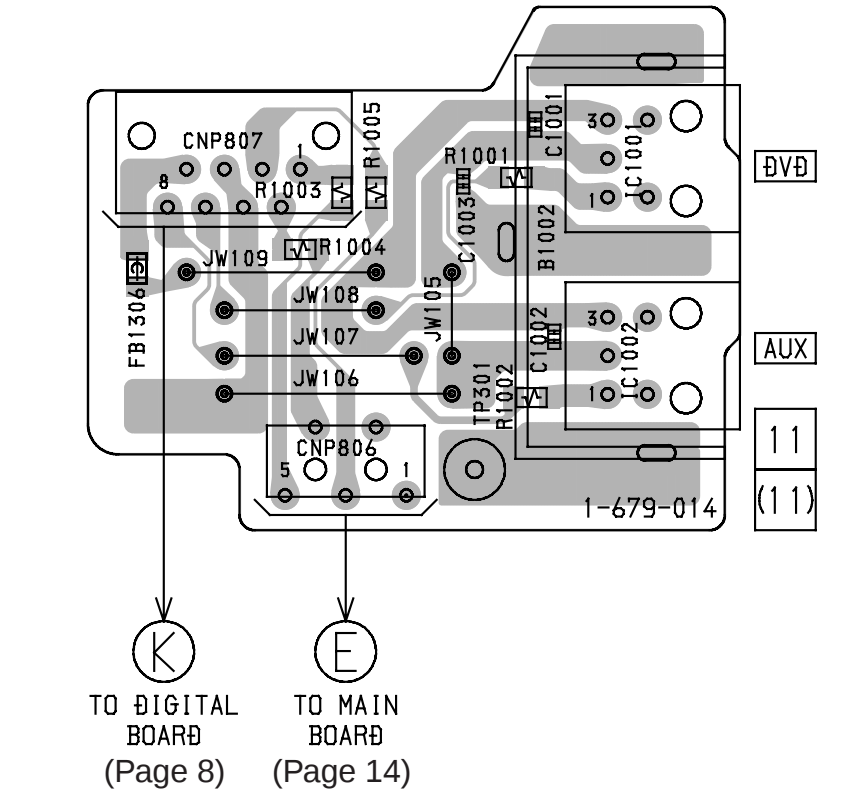


以阴影和 ▲ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

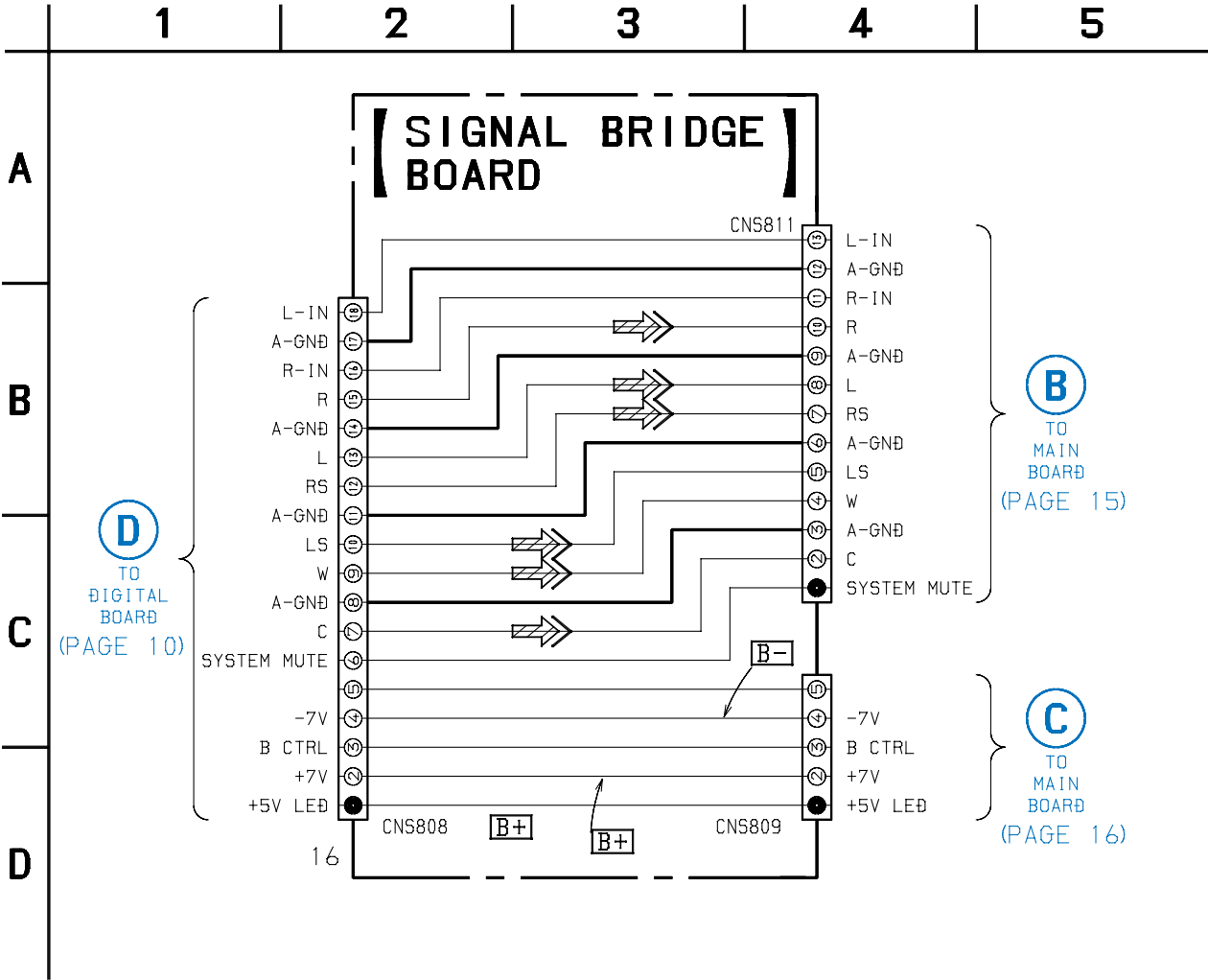


3-6. PRINTED WIRING BOARD — OPTICAL/SIGNAL BRIDGE SECTION —  
• See page 5 for Circuit Board Location.

【OPTICAL BOARD】



3-7. SCHEMATIC DIAGRAM — SIGNAL BRIDGE SECTION —



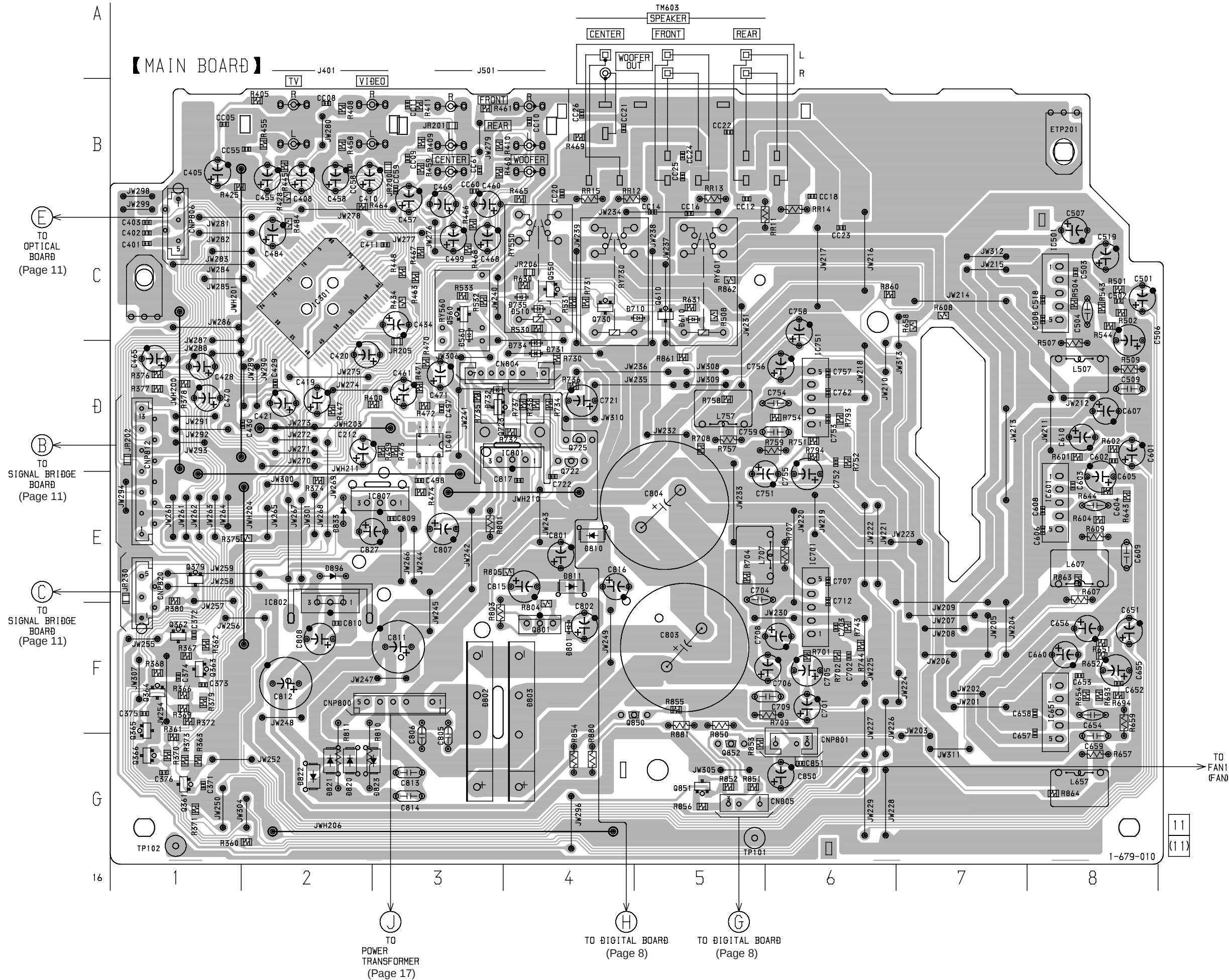


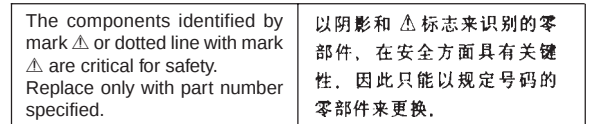


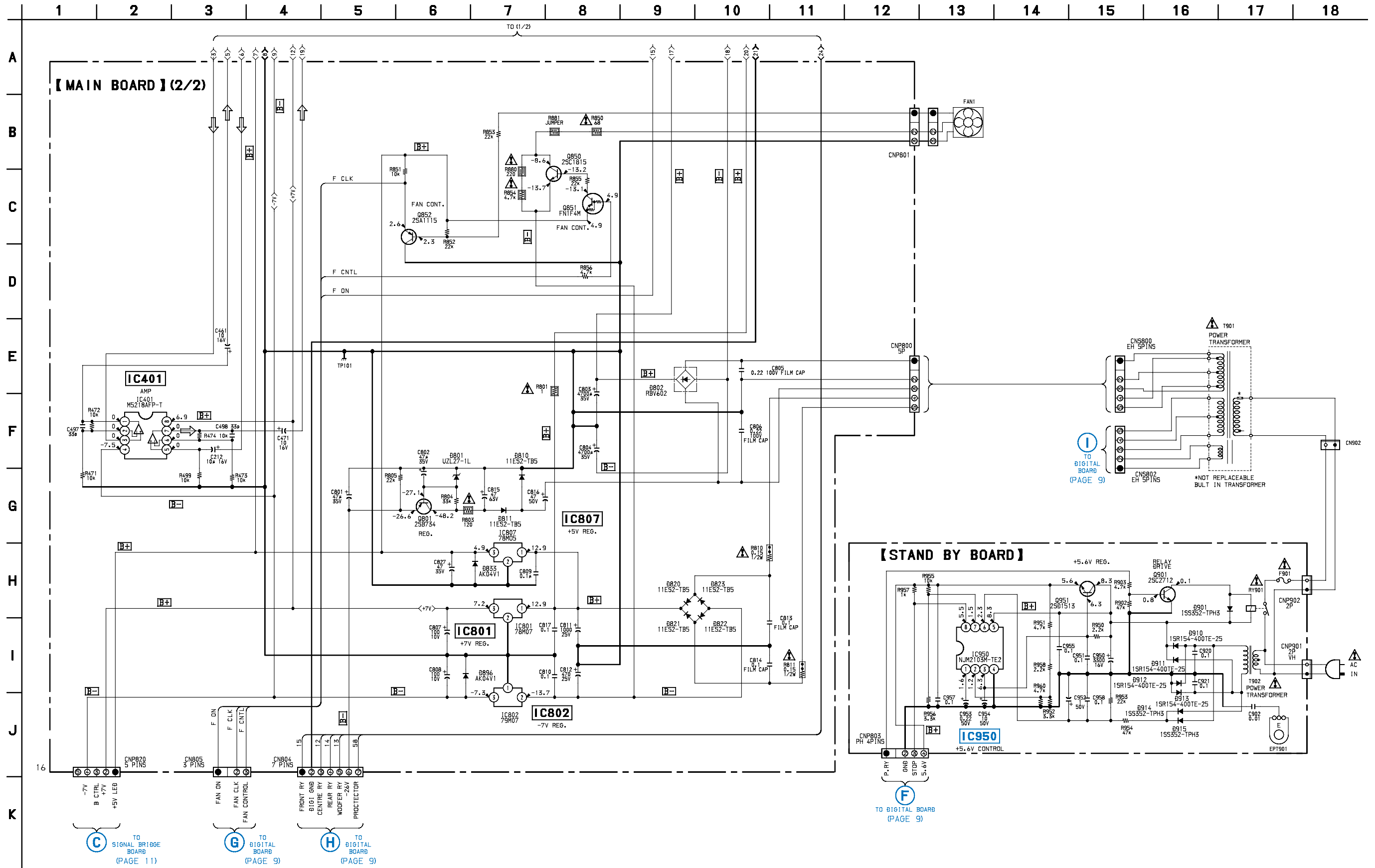
3-10. PRINTED WIRING BOARD — MAIN SECTION — • See page 5 for Circuit Board Location.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D510     | C-4      |
| D560     | C-3      |
| D610     | C-5      |
| D710     | C-5      |
| D731     | D-4      |
| D732     | D-3      |
| D734     | C-4      |
| D735     | C-4      |
| D801     | F-4      |
| D802     | F-3      |
| D810     | E-4      |
| D811     | E-4      |
| D820     | G-2      |
| D821     | G-2      |
| D822     | G-2      |
| D823     | G-2      |
| D833     | E-2      |
| D896     | E-2      |
| IC301    | C-2      |
| IC401    | D-3      |
| IC501    | C-8      |
| IC601    | D-8      |
| IC651    | F-8      |
| IC701    | E-6      |
| IC751    | D-6      |
| IC801    | D-4      |
| IC802    | F-2      |
| IC807    | E-3      |
| Q361     | G-1      |
| Q362     | F-1      |
| Q363     | F-1      |
| Q364     | F-1      |
| Q365     | G-1      |
| Q366     | G-1      |

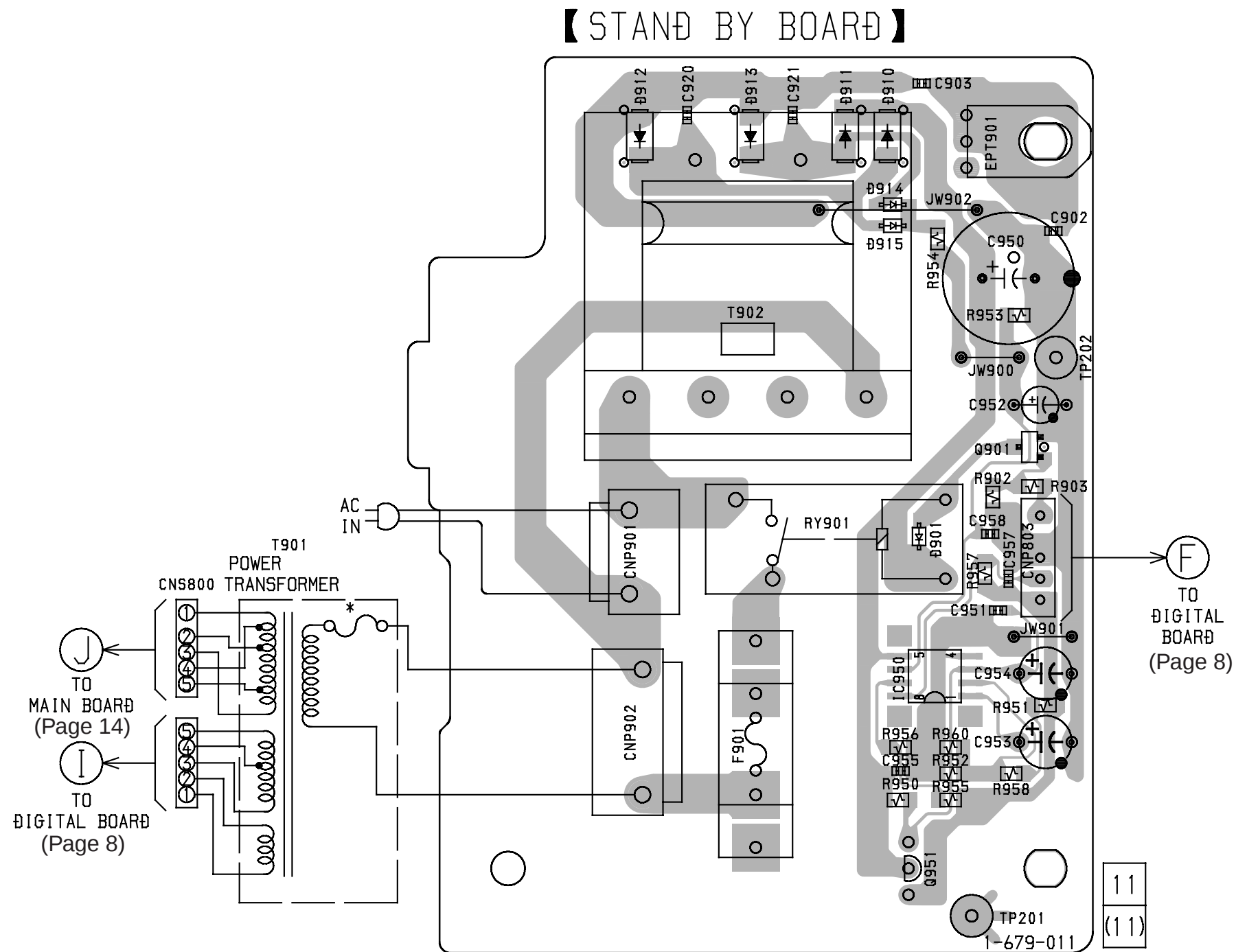






The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

以阴影和  $\triangle$  标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。



3-14. IC PIN FUNCTION DESCRIPTION  
DIGITAL BOARD IC1502 MB90553ABPF-G-172-BND (SYSTEM CONTROL)

| Pin No.  | Terminal         | I/O | Description                                          |
|----------|------------------|-----|------------------------------------------------------|
| 1        | Fan signal on    | I   | Detect input signal. Low :Source in, High: No source |
| 2        | Fan clock        | I   | Checking returning clock pulse from fan.             |
| 3        | Fan control      | O   | Turn on(Low) or Turn off(High) fan                   |
| 4        | 5.1ch LED        | O   | 5.1CH LED ON (Low) or OFF (High)                     |
| 5        | AUX LED          | O   | AUX LED ON (Low) or OFF(High)                        |
| 6        | DVD LED          | O   | DVD LED ON (Low) or OFF(High)                        |
| 7        | TV LED           | O   | TV LED ON (Low) or OFF (High)                        |
| 8        | VIDEO LED        | O   | VIDEO LED ON (Low) or OFF(High)                      |
| 9        | GND              | —   | Not Used                                             |
| 10       | FL Reset         | O   | FL IC reset control                                  |
| 11       | VSS              | —   | Ground                                               |
| 12       | Center Relay     | O   | Center relay ON(High), OFF(Low)                      |
| 13       | Woofer Relay     | O   | Woofer relay ON(High), OFF(Low)                      |
| 14       | Rear Relay       | O   | Rear Relay ON (High), OFF(Low)                       |
| 15       | Front Relay      | O   | Front Relay ON(High), OFF(Low)                       |
| 16       | Power Relay      | O   | Power Relay ON(High), OFF(Low)                       |
| 17       | FL Lat           | O   | FL IC Latch output                                   |
| 18       | FL CLK           | O   | FL IC clock output                                   |
| 19       | FL data/FLASH1   | O   | FL data output or flash programming port             |
| 20       | FLASH2           | I   | Flash programming port.                              |
| 21       | YSS912 CLK       | O   | Serial clock for IC CXD9511Q                         |
| 22       | YSS912 SI        | O   | Data Input to IC CXD9511Q                            |
| 23       | VCC              | —   | Vcc                                                  |
| 24       | YSS912SO         | I   | Data Input from IC CXD9511Q                          |
| 25       | YSS912CS         | O   | Chip select for IC CXD9511Q                          |
| 26       | BCTRL            | I   | Not Used                                             |
| 27       | C                | —   | Not Used                                             |
| 28 to 33 | GND              | I   | Not Used                                             |
| 34       | AVCC             | —   | Avcc                                                 |
| 35       | AVRH             | —   | Reference High voltage for A/D port                  |
| 36       | AVRL             | —   | Reference Low voltage for A/D port                   |
| 37       | AVSS             | —   | Avss                                                 |
| 38 to 40 | A/D key I to III | I   | A/D key I to III                                     |
| 41       | Version          | I   | Model version information                            |
| 42       | VSS              | —   | Vss                                                  |
| 43,44    | GND              | I   | Not Used                                             |
| 45       | Vol-A(up)        | I   | Volume encoder input A                               |
| 46       | Vol-B(down)      | I   | Volume encoder input B                               |
| 47       | Stop             | I   | Stop signal input port                               |
| 48       | GND              | I   | Not Used                                             |
| 49 to 51 | MD0 to 2         | I/O | MCU mode setting                                     |
| 52       | HSTX             | I/O | Hardware standby                                     |
| 53 to 55 | GND              | —   | Not Used                                             |
| 56       | PW KEY IN        | I   | Power key input port                                 |
| 57       | SIRCS            | I   | SIRCS code input port                                |
| 58       | PROTECTOR        | I   | PROTECTOR input port                                 |
| 59 to 67 | GND              | —   | Not Used                                             |
| 68       | CODEC CLK        | O   | Serial clock for IC AK4527                           |
| 69       | CODEC CDT1       | O   | Serial data for IC AK4527                            |
| 70       | CODEC DFS        | O   | Port control for pin DFS                             |
| 71       | CODEC PD         | O   | Port control for POWER DOWN                          |
| 72       | CODEC MUTE       | O   | Port control for IC AK4527 muting                    |

| Pin No.  | Terminal    | I/O | Description                     |
|----------|-------------|-----|---------------------------------|
| 73       | CODEC CS    | O   | Chip select for IC AK4527       |
| 74 to 76 | GND         | —   | Not Used                        |
| 77       | RESET       | I/O | Micom reset port                |
| 78       | M61501 DATA | O   | Serial Data for IC M61501       |
| 79       | M61501 CLK  | O   | Serial Clock for IC M61501      |
| 80       | M61501 CE   | O   | Chip enable for IC M61501       |
| 81       | VSS         | —   | Vss                             |
| 82       | XO          | O   | Oscillation out                 |
| 83       | XI          | I   | Oscillation in                  |
| 84       | VCC         | —   | Vcc                             |
| 85 to 87 | GND         | —   | Not Used                        |
| 88       | System mute | O   | Transistor muting control       |
| 89       | DIR DO      | I   | Data in from IC LC89055W        |
| 90       | DIR DI      | O   | Data out to IC LC89055W         |
| 91       | DIR CE      | O   | Chip Enable for IC LC89055W     |
| 92       | DIR CLK     | O   | Serial Clock for LC89055W       |
| 93       | DIR XMODE   | O   | Port control for XMODE          |
| 94       | DIR DATA0   | I   | LC89055W data check             |
| 95       | DIR ERROR   | I   | Error port from LC89055W        |
| 96       | DIR XSTATE  | I   | XSTATE condition check          |
| 97       | GND         | —   | Not Used                        |
| 98       | ANG/DIG     | O   | Analog digital switch           |
| 99       | YSS_CSB     | O   | IC CXD9511Q sub dsp chip select |
| 100      | YSS_IC      | O   | IC CXD9511Q IC port control     |



## SECTION 4 EXPLODED VIEWS

Ver 1.1 2001. 03

### NOTE:

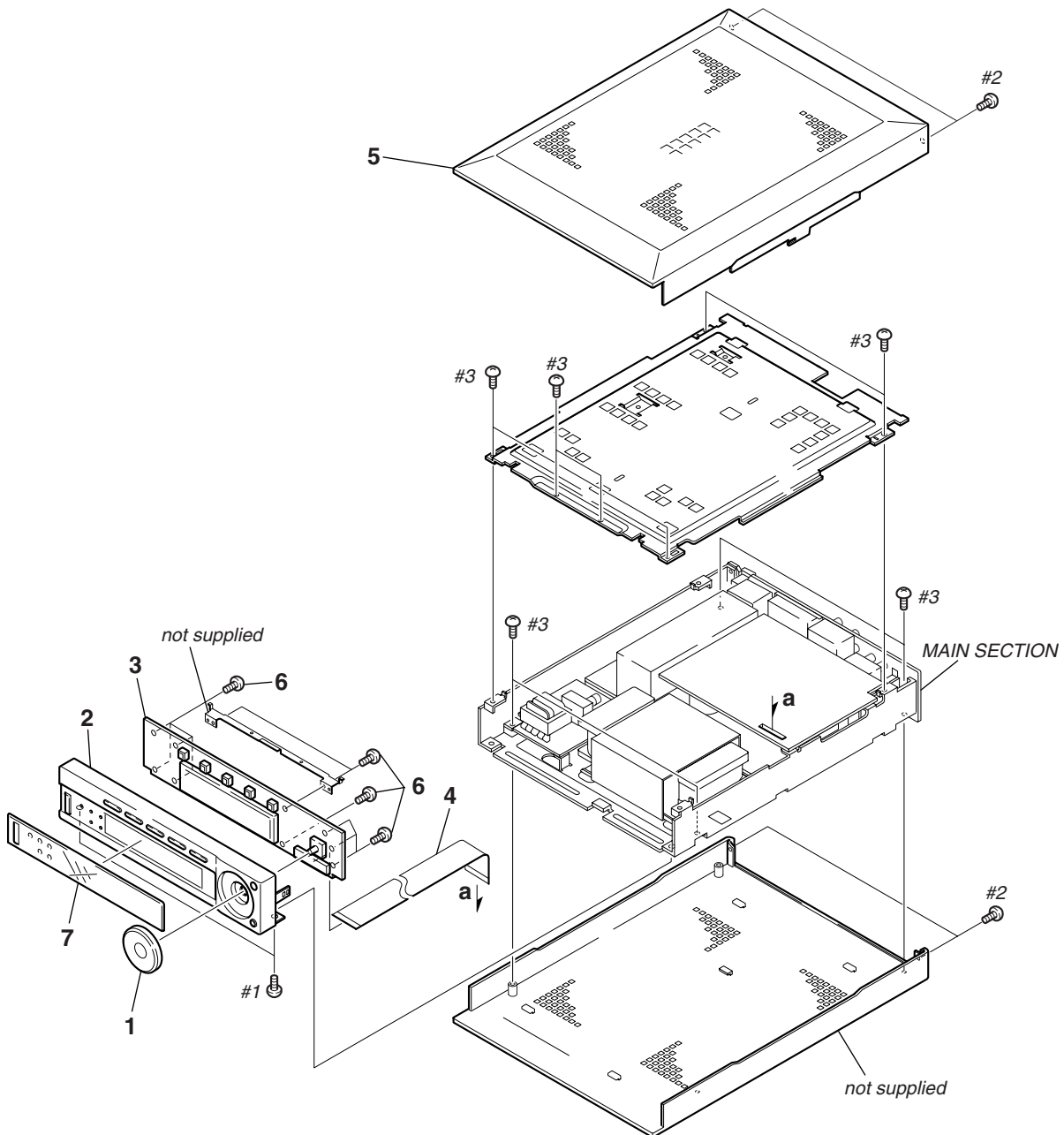
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of this parts list.

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

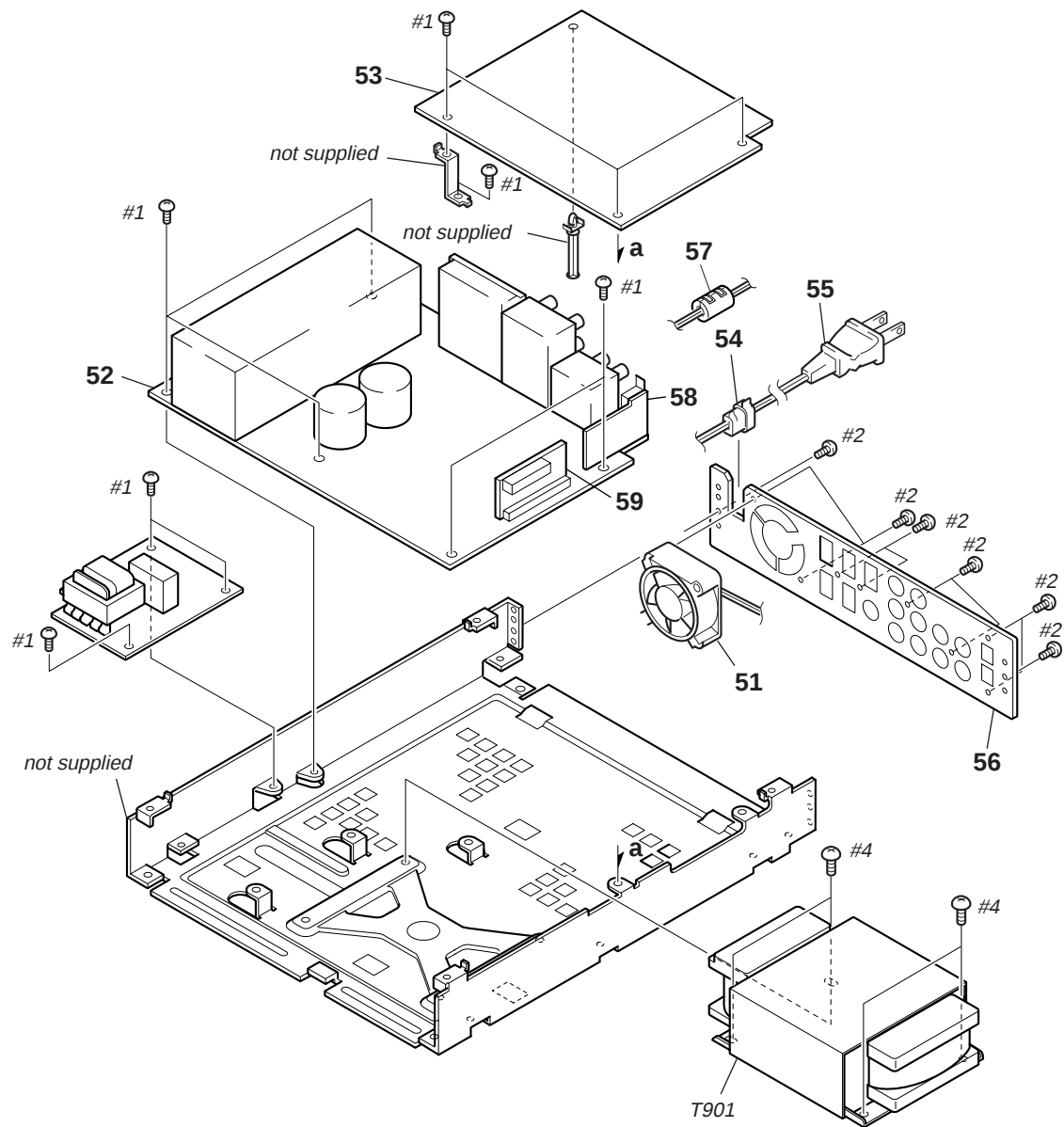
以阴影和  $\Delta$  标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

### 4-1. PANEL SECTION



| Ref. No. | Part No.     | Description                | Remark | Ref. No. | Part No.     | Description                 | Remark |
|----------|--------------|----------------------------|--------|----------|--------------|-----------------------------|--------|
| 1        | 4-230-086-01 | KNOB (VOL)                 |        | 6        | 4-951-620-01 | SCREW(2.6X8), +BVTP         |        |
| 2        | X-4953-151-1 | FRONT PANEL ASSY           |        | #1       | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 N-S   |        |
| 3        | A-4475-053-A | DISPLAY BOARD, COMPLETE    |        | #2       | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 TT(B) |        |
| 4        | 1-773-185-11 | WIRE (FLAT TYPE) (23 CORE) |        | #3       | 7-685-872-09 | SCREW +BVTT 3X8 (S)         |        |
| 5        | 4-230-082-01 | TOP CASE                   |        | 7        | 4-230-085-01 | WINDOW                      |        |

4-2. MAIN SECTION



| Ref. No. | Part No.     | Description                  | Remark | Ref. No. | Part No.     | Description                 | Remark |
|----------|--------------|------------------------------|--------|----------|--------------|-----------------------------|--------|
| 51       | 1-763-561-11 | FAN, D.C.                    |        | 58       | 1-679-014-11 | OPTICAL BOARD               |        |
| 52       | A-4475-050-A | MAIN BOARD, COMPLETE         |        | 59       | 1-679-012-11 | SIGNAL BRIDGE BOARD         |        |
| 53       | A-4475-055-A | DIGITAL BOARD, COMPLETE      |        | 60       | 1-679-011-11 | STAND BY BOARD              |        |
| * 54     | 3-703-244-00 | BUSHING (2104), CORD         |        | △ T901   | 1-435-687-11 | POWER TRANSFORMER           |        |
| △ 55     | 1-777-071-21 | CORD, POWER                  |        | #1       | 7-685-645-79 | SCREW +BVTP 3X6 TYPE2 N-S   |        |
| 56       | 4-230-098-01 | BACK PANEL                   |        | #2       | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 TT(B) |        |
| 57       | 1-500-386-11 | FILTER, CLAMP (FERRITE CORE) |        | #4       | 7-685-880-09 | SCREW +BVTT 4X6 (S)         |        |

|                                                                                                                                  |                                               |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified. | 以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。 |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|

## SECTION 5 ELECTRICAL PARTS LIST

## NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...,  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

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

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

以阴影和  $\Delta$  标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

| Ref. No. | Part No.     | Description             | Remarks  |        |     |  | Ref. No. | Part No.     | Description  | Remarks |        |      |  |
|----------|--------------|-------------------------|----------|--------|-----|--|----------|--------------|--------------|---------|--------|------|--|
|          | A-4475-055-A | DIGITAL BOARD, COMPLETE | *****    |        |     |  | C1270    | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |  |
|          |              |                         |          |        |     |  | C1271    | 1-128-131-11 | ELECT        | 22uF    | 20.00% | 50V  |  |
|          |              |                         |          |        |     |  | C1272    | 1-128-131-11 | ELECT        | 22uF    | 20.00% | 50V  |  |
|          |              |                         |          |        |     |  | C1273    | 1-128-131-11 | ELECT        | 22uF    | 20.00% | 50V  |  |
|          |              |                         |          |        |     |  | C1274    | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |  |
|          |              | < CAPACITOR >           |          |        |     |  | C1275    | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |  |
| C871     | 1-126-163-11 | ELECT                   | 4.7uF    | 20%    | 50V |  | C1276    | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |  |
| C873     | 1-126-160-11 | ELECT                   | 1uF      | 20     | 50V |  | C1277    | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |  |
| C1103    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1291    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1104    | 1-124-589-11 | ELECT                   | 47uF     | 20%    | 16V |  | C1292    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1105    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1293    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1106    | 1-162-974-11 | CERAMIC CHIP            | 0.01uF   |        | 50V |  | C1294    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1107    | 1-124-589-11 | ELECT                   | 47uF     | 20%    | 16V |  | C1295    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1108    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1296    | 1-162-921-11 | CERAMIC CHIP | 33PF    | 5%     | 50V  |  |
| C1109    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1301    | 1-128-057-11 | ELECT        | 330uF   | 20.00% | 6.3V |  |
| C1110    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1302    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1111    | 1-162-974-11 | CERAMIC CHIP            | 0.01uF   |        | 50V |  | C1303    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1112    | 1-162-918-11 | CERAMIC CHIP            | 18PF     | 5.00%  | 50V |  | C1304    | 1-124-589-11 | ELECT        | 47uF    | 20%    | 16V  |  |
| C1113    | 1-162-918-11 | CERAMIC CHIP            | 18PF     | 5.00%  | 50V |  | C1305    | 1-164-315-11 | CERAMIC CHIP | 470PF   | 5.00%  | 50V  |  |
| C1114    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1306    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1115    | 1-124-589-11 | ELECT                   | 47uF     | 20%    | 16V |  | C1307    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1116    | 1-162-927-11 | CERAMIC CHIP            | 100PF    | 5%     | 50V |  | C1308    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1201    | 1-128-131-11 | ELECT                   | 22uF     | 20.00% | 50V |  | C1309    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1202    | 1-162-965-11 | CERAMIC CHIP            | 0.0015uF | 10%    | 50V |  | C1310    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1203    | 1-136-157-00 | FILM                    | 0.022uF  | 5.00%  | 50V |  | C1311    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1210    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1312    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1211    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1313    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1212    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1314    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1213    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1315    | 1-126-935-11 | ELECT        | 470uF   | 20.00% | 6.3V |  |
| C1214    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1316    | 1-126-935-11 | ELECT        | 470uF   | 20.00% | 6.3V |  |
| C1215    | 1-164-230-11 | CERAMIC CHIP            | 220PF    | 5.00%  | 50V |  | C1317    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1221    | 1-128-131-11 | ELECT                   | 22uF     | 20.00% | 50V |  | C1318    | 1-124-584-00 | ELECT        | 100uF   | 20%    | 10V  |  |
| C1222    | 1-128-131-11 | ELECT                   | 22uF     | 20.00% | 50V |  | C1325    | 1-162-974-11 | CERAMIC CHIP | 0.01uF  |        | 50V  |  |
| C1223    | 1-128-131-11 | ELECT                   | 22uF     | 20.00% | 50V |  | C1329    | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |  |
| C1224    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1330    | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |  |
| C1225    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1500    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1226    | 1-124-261-00 | ELECT                   | 10uF     | 20%    | 50V |  | C1501    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1227    | 1-164-315-11 | CERAMIC CHIP            | 470PF    | 5.00%  | 50V |  | C1502    | 1-104-905-11 | CAPACITOR    | 0.22F   |        | 5.5V |  |
| C1228    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1503    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1229    | 1-124-589-11 | ELECT                   | 47uF     | 20%    | 16V |  | C1505    | 1-124-261-00 | ELECT        | 10uF    | 20%    | 50V  |  |
| C1230    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1508    | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |  |
| C1231    | 1-124-261-00 | ELECT                   | 10uF     | 20%    | 50V |  | C1509    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1232    | 1-124-584-00 | ELECT                   | 100uF    | 20%    | 10V |  | C1510    | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |  |
| C1251    | 1-128-131-11 | ELECT                   | 22uF     | 20.00% | 50V |  | C1511    | 1-124-589-11 | ELECT        | 47uF    | 20%    | 16V  |  |
| C1252    | 1-164-156-11 | CERAMIC CHIP            | 0.1uF    |        | 25V |  | C1512    | 1-124-257-00 | ELECT        | 2.2uF   | 20%    | 50V  |  |
| C1253    | 1-124-261-00 | ELECT                   | 10uF     | 20%    | 50V |  |          |              |              |         |        |      |  |
| C1254    | 1-162-965-11 | CERAMIC CHIP            | 0.0015uF | 10%    | 50V |  |          |              |              |         |        |      |  |
| C1269    | 1-126-163-11 | ELECT                   | 4.7uF    | 20%    | 50V |  |          |              |              |         |        |      |  |

| Ref. No.         | Part No.     | Description                   | Remarks    | Ref. No.       | Part No.     | Description                 | Remarks  |
|------------------|--------------|-------------------------------|------------|----------------|--------------|-----------------------------|----------|
| C1513            | 1-136-169-00 | FILM 0.22uF                   | 5.00% 50V  | IC1009         | 8-759-647-11 | IC uPC2905HF                |          |
| C1514            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1010         | 8-759-647-10 | IC uPC2933HF                |          |
| C1515            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1011         | 8-759-039-69 | IC uPC7805AHF               |          |
| C1516            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1201         | 8-759-099-06 | IC M5218AFP-TE1             |          |
| C1522            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1202         | 8-759-099-06 | IC M5218AFP-TE1             |          |
| C1523            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1203         | 8-759-099-06 | IC M5218AFP-TE1             |          |
| C1529            | 1-124-261-00 | ELECT 10uF                    | 20% 50V    | IC1204         | 8-759-099-06 | IC M5218AFP-TE1             |          |
| C1530            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1251         | 8-759-099-06 | IC M5218AFP-TE1             |          |
| C1532            | 1-164-156-11 | CERAMIC CHIP 0.1uF            | 25V        | IC1502         | 8-759-683-65 | IC MB90553ABPF-G-172-BND    |          |
| C1552            | 1-126-936-11 | ELECT 3300uF                  | 20.00% 16V |                |              |                             |          |
| < CONNECTOR >    |              |                               |            | < TRANSISTOR > |              |                             |          |
| CNP102           | 1-784-925-11 | PIN, CONNECTOR 10P            |            | Q100           | 8-729-113-69 | TRANSISTOR FN1F4M-T1M32     |          |
| CNP808           | 1-770-385-11 | CONNECTOR, BOARD TO BOARD 18P |            | Q101           | 8-729-027-43 | TRANSISTOR RT1N141C-TP-1    |          |
| CNS101           | 1-691-652-11 | SOCKET, CONNECTOR 23P         |            | Q103           | 8-729-230-49 | TRANSISTOR 2SC2712-YG-TE85L |          |
| * CNS802         | 1-564-520-11 | PLUG, CONNECTOR 5P            |            | Q104           | 8-729-027-43 | TRANSISTOR RT1N141C-TP-1    |          |
| CNS807           | 1-770-380-11 | CONNECTOR, BOARD TO BOARD 8P  |            | Q870           | 8-729-230-49 | TRANSISTOR 2SC2712-YG-TE85L |          |
| * CNS810         | 1-695-808-11 | CONNECTOR, PC BOARD 8P        |            | Q871           | 8-729-230-49 | TRANSISTOR 2SC2712-YG-TE85L |          |
| < DIODE >        |              |                               |            | < RESISTOR >   |              |                             |          |
| D100             | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R065           | 1-216-097-11 | RES-CHIP 100K               | 5% 1/10W |
| D101             | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R099           | 1-216-295-11 | SHORT 0                     |          |
| D102             | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R870           | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| D103             | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R871           | 1-216-097-11 | RES-CHIP 100K               | 5% 1/10W |
| D109             | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R872           | 1-216-061-00 | METAL CHIP 3.3K             | 5% 1/10W |
| D110             | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R873           | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| D870             | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R874           | 1-216-047-91 | RES-CHIP 820                | 5% 1/10W |
| D1101            | 8-719-016-74 | DIODE 1SS352-TPH3             |            | R875           | 1-216-065-91 | RES-CHIP 4.7K               | 5% 1/10W |
| D1201            | 8-719-049-09 | DIODE 1SS367-T3SONY           |            | R876           | 1-216-093-91 | RES-CHIP 68K                | 5% 1/10W |
| D1202            | 8-719-049-09 | DIODE 1SS367-T3SONY           |            | R877           | 1-216-105-91 | RES-CHIP 220K               | 5% 1/10W |
| D1501            | 8-719-070-30 | DIODE PTZ-TE25-5.6A           |            | R878           | 1-216-097-11 | RES-CHIP 100K               | 5% 1/10W |
| D1524            | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R1101          | 1-216-071-00 | METAL CHIP 8.2K             | 5% 1/10W |
| D1525            | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R1102          | 1-216-066-00 | METAL CHIP 5.1K             | 5% 1/10W |
| D1526            | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R1103          | 1-216-066-00 | METAL CHIP 5.1K             | 5% 1/10W |
| D1527            | 8-719-053-18 | DIODE 1SR154-400TE-25         |            | R1104          | 1-216-022-00 | METAL CHIP 75               | 5% 1/10W |
| < FERRITE BEAD > |              |                               |            | R1110          | 1-216-049-11 | RES-CHIP 1K                 | 5% 1/10W |
| FB100            | 1-414-813-11 | FERRITE 0uH                   |            | R1111          | 1-216-049-11 | RES-CHIP 1K                 | 5% 1/10W |
| FB1101           | 1-414-813-11 | FERRITE 0uH                   |            | R1112          | 1-216-049-11 | RES-CHIP 1K                 | 5% 1/10W |
| FB1102           | 1-469-152-11 | FERRITE 0uH                   |            | R1113          | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| FB1103           | 1-469-152-11 | FERRITE 0uH                   |            | R1114          | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| FB1201           | 1-414-813-11 | FERRITE 0uH                   |            | R1115          | 1-216-043-91 | RES-CHIP 560                | 5% 1/10W |
| FB1301           | 1-414-813-11 | FERRITE 0uH                   |            | R1116          | 1-216-121-11 | RES-CHIP 1M                 | 5% 1/10W |
| FB1302           | 1-414-813-11 | FERRITE 0uH                   |            | R1117          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1304           | 1-414-813-11 | FERRITE 0uH                   |            | R1118          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1305           | 1-414-813-11 | FERRITE 0uH                   |            | R1119          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1500           | 1-414-813-11 | FERRITE 0uH                   |            | R1120          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1501           | 1-414-813-11 | FERRITE 0uH                   |            | R1121          | 1-469-152-11 | FERRITE 0UH                 |          |
| FB1502           | 1-414-813-11 | FERRITE 0uH                   |            | R1122          | 1-469-152-11 | FERRITE 0UH                 |          |
| FB1503           | 1-414-813-11 | FERRITE 0uH                   |            | R1123          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1504           | 1-469-152-11 | FERRITE 0uH                   |            | R1124          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
| FB1505           | 1-469-152-11 | FERRITE 0uH                   |            | R1125          | 1-469-152-11 | FERRITE 0UH                 |          |
| < IC >           |              |                               |            | R1201          | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| IC1004           | 8-759-639-35 | IC LC89055W-RA8               |            | R1202          | 1-216-059-00 | METAL CHIP 2.7K             | 5% 1/10W |
| IC1005           | 8-759-242-70 | IC TC7WU04F(Te12R)            |            | R1203          | 1-216-037-00 | METAL CHIP 330              | 5% 1/10W |
| IC1006           | 8-759-643-42 | IC CXD9511AQ                  |            | R1204          | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| IC1007           | 8-759-697-47 | IC IDT71256SA20Y-TL           |            | R1205          | 1-216-073-00 | METAL CHIP 10K              | 5% 1/10W |
| IC1008           | 8-759-657-47 | IC AK4527                     |            | R1206          | 1-216-037-00 | METAL CHIP 330              | 5% 1/10W |
|                  |              |                               |            | R1210          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
|                  |              |                               |            | R1211          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |
|                  |              |                               |            | R1212          | 1-216-025-11 | RES-CHIP 100                | 5% 1/10W |

| Ref. No. | Part No.     | Description |      |    | Remarks |
|----------|--------------|-------------|------|----|---------|
| R1213    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1214    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1215    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1221    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1222    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1223    | 1-216-097-11 | RES-CHIP    | 100K | 5% | 1/10W   |
| R1251    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1252    | 1-216-059-00 | METAL CHIP  | 2.7K | 5% | 1/10W   |
| R1253    | 1-216-037-00 | METAL CHIP  | 330  | 5% | 1/10W   |
| R1254    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1255    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1256    | 1-216-037-00 | METAL CHIP  | 330  | 5% | 1/10W   |
| R1257    | 1-216-065-91 | RES-CHIP    | 4.7K | 5% | 1/10W   |
| R1258    | 1-216-065-91 | RES-CHIP    | 4.7K | 5% | 1/10W   |
| R1275    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1276    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1277    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1278    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1279    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1280    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1281    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1282    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1283    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1284    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1285    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1286    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1287    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1288    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1289    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1290    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1291    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1292    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1301    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1302    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1303    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1304    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1305    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1311    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1312    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1313    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1314    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1315    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1316    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1317    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1500    | 1-216-049-11 | RES-CHIP    | 1K   | 5% | 1/10W   |
| R1501    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1502    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1503    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1504    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1505    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1517    | 1-216-089-11 | RES-CHIP    | 47K  | 5% | 1/10W   |
| R1518    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1519    | 1-216-065-91 | RES-CHIP    | 4.7K | 5% | 1/10W   |
| R1520    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1521    | 1-216-117-00 | METAL CHIP  | 680K | 5% | 1/10W   |
| R1524    | 1-216-081-00 | METAL CHIP  | 22K  | 5% | 1/10W   |
| R1525    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1526    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |
| R1527    | 1-216-073-00 | METAL CHIP  | 10K  | 5% | 1/10W   |
| R1535    | 1-216-025-11 | RES-CHIP    | 100  | 5% | 1/10W   |

| Ref. No.      | Part No.     | Description                 |        |     | Remarks |
|---------------|--------------|-----------------------------|--------|-----|---------|
| R1536         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1537         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1538         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1539         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1540         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1544         | 1-216-073-00 | METAL CHIP                  | 10K    | 5%  | 1/10W   |
| R1548         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1549         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1550         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1551         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1552         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1553         | 1-216-025-11 | RES-CHIP                    | 100    | 5%  | 1/10W   |
| R1554         | 1-216-073-00 | METAL CHIP                  | 10K    | 5%  | 1/10W   |
| △ R1580       | 1-243-635-11 | FUSIBLE                     | 0.33   | 5%  | 1/2W    |
| R1587         | 1-216-073-00 | METAL CHIP                  | 10K    | 5%  | 1/10W   |
| R1588         | 1-216-073-00 | METAL CHIP                  | 10K    | 5%  | 1/10W   |
| < VIBRATOR >  |              |                             |        |     |         |
| X101          | 1-781-356-21 | VIBRATOR, CERAMIC 16MHz     |        |     |         |
| X1101         | 1-781-465-21 | VIBRATOR, CRYSTAL 12.288MHz |        |     |         |
| *****         |              |                             |        |     |         |
| A-4475-053-A  |              | DISPLAY BOARD, COMPLETE     |        |     |         |
| *****         |              |                             |        |     |         |
| 4-230-090-01  |              | FL HOLDER                   |        |     |         |
| *             | 4-921-941-01 | CUSHION (FL)                |        |     |         |
|               | 7-685-872-09 | SCREW +BVTT                 | 3X8    | (S) |         |
| < CAPACITOR > |              |                             |        |     |         |
| C100          | 1-162-974-11 | CERAMIC CHIP                | 0.01uF |     | 50V     |
| C101          | 1-124-589-11 | ELECT                       | 47uF   | 20% | 16V     |
| C102          | 1-162-974-11 | CERAMIC CHIP                | 0.01uF |     | 50V     |
| C103          | 1-164-156-11 | CERAMIC CHIP                | 0.1uF  |     | 25V     |
| C104          | 1-124-261-00 | ELECT                       | 10uF   | 20% | 50V     |
| C105          | 1-164-156-11 | CERAMIC CHIP                | 0.1uF  |     | 25V     |
| C106          | 1-162-919-11 | CERAMIC CHIP                | 22PF   | 5%  | 50V     |
| C107          | 1-164-156-11 | CERAMIC CHIP                | 0.1uF  |     | 25V     |
| C108          | 1-164-156-11 | CERAMIC CHIP                | 0.1uF  |     | 25V     |
| C109          | 1-164-156-11 | CERAMIC CHIP                | 0.1uF  |     | 25V     |
| C110          | 1-124-248-00 | ELECT                       | 22uF   | 20% | 35V     |
| C111          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C113          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C114          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C115          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C116          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C117          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C118          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C119          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C120          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C121          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C122          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C123          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C124          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |
| C125          | 1-162-927-11 | CERAMIC CHIP                | 100PF  | 5%  | 50V     |

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

以阴影和 △ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

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# MAIN

| Ref. No. | Part No.     | Description  | Remarks |        |      |
|----------|--------------|--------------|---------|--------|------|
| C507     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C509     | 1-137-372-11 | MYLAR        | 0.022uF | 5.00%  | 50V  |
| C519     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C601     | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |
| C602     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C603     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C604     | 1-102-942-00 | CERAMIC      | 5.0PF   | ±0.5PF | 50V  |
| C605     | 1-104-665-11 | ELECT        | 100uF   | 20.00% | 16V  |
| C607     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C609     | 1-137-372-11 | MYLAR        | 0.022uF | 5.00%  | 50V  |
| C610     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C651     | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |
| C652     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C653     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C654     | 1-102-942-00 | CERAMIC      | 5.0PF   | ±0.5PF | 50V  |
| C655     | 1-104-665-11 | ELECT        | 100uF   | 20.00% | 16V  |
| C656     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C659     | 1-137-372-11 | MYLAR        | 0.022uF | 5.00%  | 50V  |
| C660     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C701     | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |
| C702     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C703     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C704     | 1-102-942-00 | CERAMIC      | 5.0PF   | ±0.5PF | 50V  |
| C705     | 1-104-665-11 | ELECT        | 100uF   | 20.00% | 16V  |
| C706     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C708     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C709     | 1-137-372-11 | MYLAR        | 0.022uF | 5.00%  | 50V  |
| C721     | 1-126-934-11 | ELECT        | 220uF   | 20.00% | 10V  |
| C722     | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |
| C751     | 1-126-163-11 | ELECT        | 4.7uF   | 20%    | 50V  |
| C752     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C753     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| C754     | 1-102-942-00 | CERAMIC      | 5.0PF   | ±0.5PF | 50V  |
| C755     | 1-104-665-11 | ELECT        | 100uF   | 20.00% | 16V  |
| C756     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C758     | 1-124-463-00 | ELECT        | 0.1uF   | 20%    | 50V  |
| C759     | 1-137-372-11 | MYLAR        | 0.022uF | 5.00%  | 50V  |
| C801     | 1-126-947-11 | ELECT        | 47uF    | 20.00% | 35V  |
| C802     | 1-126-947-11 | ELECT        | 47uF    | 20.00% | 35V  |
| C803     | 1-135-974-11 | CAP, ELECT   | 4700uF  |        | 35V  |
| C804     | 1-135-974-11 | CAP, ELECT   | 4700uF  |        | 35V  |
| C805     | 1-135-851-21 | MYLAR        | 0.22uF  |        | 100V |
| C806     | 1-135-851-21 | MYLAR        | 0.22uF  |        | 100V |
| C807     | 1-124-584-00 | ELECT        | 100uF   | 20%    | 10V  |
| C808     | 1-124-584-00 | ELECT        | 100uF   | 20%    | 10V  |
| C809     | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |
| C810     | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |
| C811     | 1-126-942-61 | ELECT        | 1000uF  | 20.00% | 25V  |
| C812     | 1-126-941-11 | ELECT        | 470uF   | 20.00% | 25V  |
| C813     | 1-130-495-00 | MYLAR        | 0.1uF   | 5%     | 50V  |
| C814     | 1-130-495-00 | MYLAR        | 0.1uF   | 5%     | 50V  |
| C815     | 1-128-552-51 | ELECT        | 47uF    | 20.00% | 63V  |
| C816     | 1-126-967-11 | ELECT        | 47uF    | 20.00% | 50V  |
| C817     | 1-164-156-11 | CERAMIC CHIP | 0.1uF   |        | 25V  |
| C827     | 1-126-947-11 | ELECT        | 47uF    | 20.00% | 35V  |
| CC05     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| CC08     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| CC09     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| CC10     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |
| CC11     | 1-162-927-11 | CERAMIC CHIP | 100PF   | 5%     | 50V  |

| Ref. No.      | Part No.     | Description                   | Remarks |       |     |
|---------------|--------------|-------------------------------|---------|-------|-----|
| CC12          | 1-162-974-11 | CERAMIC CHIP                  | 0.01uF  |       | 50V |
| CC14          | 1-162-974-11 | CERAMIC CHIP                  | 0.01uF  |       | 50V |
| CC16          | 1-162-974-11 | CERAMIC CHIP                  | 0.01uF  |       | 50V |
| CC18          | 1-162-974-11 | CERAMIC CHIP                  | 0.01uF  |       | 50V |
| CC20          | 1-162-974-11 | CERAMIC CHIP                  | 0.01uF  |       | 50V |
| CC21          | 1-164-230-11 | CERAMIC CHIP                  | 220PF   | 5.00% | 50V |
| CC22          | 1-164-230-11 | CERAMIC CHIP                  | 220PF   | 5.00% | 50V |
| CC23          | 1-164-230-11 | CERAMIC CHIP                  | 220PF   | 5.00% | 50V |
| CC24          | 1-164-230-11 | CERAMIC CHIP                  | 220PF   | 5.00% | 50V |
| CC25          | 1-164-230-11 | CERAMIC CHIP                  | 220PF   | 5.00% | 50V |
| CC55          | 1-162-927-11 | CERAMIC CHIP                  | 100PF   | 5%    | 50V |
| CC58          | 1-162-927-11 | CERAMIC CHIP                  | 100PF   | 5%    | 50V |
| CC59          | 1-162-927-11 | CERAMIC CHIP                  | 100PF   | 5%    | 50V |
| CC60          | 1-162-927-11 | CERAMIC CHIP                  | 100PF   | 5%    | 50V |
| CC61          | 1-162-927-11 | CERAMIC CHIP                  | 100PF   | 5%    | 50V |
| < CONNECTOR > |              |                               |         |       |     |
| CNP800        | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P     |         |       |     |
| CNP801        | 1-779-978-11 | PIN, CONNECTOR 3P             |         |       |     |
| CNP806        | 1-750-180-11 | PIN, CONNECTOR (PC BOARD) 5P  |         |       |     |
| CNP812        | 1-695-090-11 | PIN, CONNECTOR (PC BOARD) 13P |         |       |     |
| CNP820        | 1-750-180-11 | PIN, CONNECTOR (PC BOARD) 5P  |         |       |     |
| < DIODE >     |              |                               |         |       |     |
| D510          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D560          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D610          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D710          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D731          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D732          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D734          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D735          | 8-719-016-74 | DIODE 1SS352-TPH3             |         |       |     |
| D801          | 8-719-056-97 | DIODE UDZ-TE-17-27B           |         |       |     |
| D802          | 8-719-302-38 | DIODE RBV-602-01              |         |       |     |
| D810          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D811          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D820          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D821          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D822          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D823          | 8-719-053-18 | DIODE 1SR154-400TE-25         |         |       |     |
| D833          | 8-719-210-21 | DIODE 11EQS04-TA1B            |         |       |     |
| D896          | 8-719-210-21 | DIODE 11EQS04-TA1B            |         |       |     |
| < IC >        |              |                               |         |       |     |
| IC301         | 8-759-655-38 | IC M61501FP                   |         |       |     |
| IC401         | 8-759-099-06 | IC M5218AFP-TE1               |         |       |     |
| IC501         | 8-759-502-33 | IC SI-18752                   |         |       |     |
| IC601         | 8-759-502-33 | IC SI-18752                   |         |       |     |
| IC651         | 8-759-502-33 | IC SI-18752                   |         |       |     |
| IC701         | 8-759-502-33 | IC SI-18752                   |         |       |     |
| IC751         | 8-759-502-33 | IC SI-18752                   |         |       |     |
| IC801         | 8-759-605-00 | IC M5F78M07L                  |         |       |     |
| IC802         | 8-759-604-95 | IC M5F79M07L                  |         |       |     |
| IC807         | 8-759-604-35 | IC M5F78M05L                  |         |       |     |
| < JACK >      |              |                               |         |       |     |
| J401          | 1-794-713-11 | PIN JACK 4P (TV/VIDEO)        |         |       |     |
| J501          | 1-794-710-11 | PIN JACK 6P (5.1CH/SAT)       |         |       |     |

| Ref. No.       | Part No.     | Description    | Remarks           |    |       |  | Ref. No. | Part No.     | Description | Remarks |    |        |  |
|----------------|--------------|----------------|-------------------|----|-------|--|----------|--------------|-------------|---------|----|--------|--|
| < COIL >       |              |                |                   |    |       |  |          |              |             |         |    |        |  |
| L507           | 1-419-666-11 | COIL, AIR-CORE |                   |    |       |  | R455     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| L607           | 1-419-666-11 | COIL, AIR-CORE |                   |    |       |  | R458     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| L657           | 1-419-666-11 | COIL, AIR-CORE |                   |    |       |  | R459     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| L707           | 1-419-666-11 | COIL, AIR-CORE |                   |    |       |  | R460     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| L757           | 1-419-666-11 | COIL, AIR-CORE |                   |    |       |  | R461     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| < TRANSISTOR > |              |                |                   |    |       |  |          |              |             |         |    |        |  |
| Q361           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R463     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q362           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R464     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q363           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R465     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q364           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R467     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q365           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R468     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q366           | 8-729-141-73 | TRANSISTOR     | 2SC3624A-T1L15L16 |    |       |  | R469     | 1-216-049-11 | RES-CHIP    | 1K      | 5% | 1/10W  |  |
| Q379           | 8-729-113-69 | TRANSISTOR     | FN1F4M-T1M32      |    |       |  | R470     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q550           | 8-729-230-49 | TRANSISTOR     | 2SC2712-YG-TE85L  |    |       |  | R471     | 1-216-073-00 | METAL CHIP  | 10K     | 5% | 1/10W  |  |
| Q560           | 8-729-230-49 | TRANSISTOR     | 2SC2712-YG-TE85L  |    |       |  | R472     | 1-216-073-00 | METAL CHIP  | 10K     | 5% | 1/10W  |  |
| Q610           | 8-729-230-49 | TRANSISTOR     | 2SC2712-YG-TE85L  |    |       |  | R473     | 1-216-073-00 | METAL CHIP  | 10K     | 5% | 1/10W  |  |
| Q722           | 8-729-140-84 | TRANSISTOR     | 2SC1841TP-PAFAEA  |    |       |  | R474     | 1-216-073-00 | METAL CHIP  | 10K     | 5% | 1/10W  |  |
| Q723           | 8-729-230-49 | TRANSISTOR     | 2SC2712-YG-TE85L  |    |       |  | R499     | 1-216-073-00 | METAL CHIP  | 10K     | 5% | 1/10W  |  |
| Q725           | 8-729-140-82 | TRANSISTOR     | 2SA988TP-PAFAEA   |    |       |  | R501     | 1-216-025-11 | RES-CHIP    | 100     | 5% | 1/10W  |  |
| Q730           | 8-729-230-49 | TRANSISTOR     | 2SC2712-YG-TE85L  |    |       |  | R502     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| Q801           | 8-729-140-97 | TRANSISTOR     | 2SB734-T-34       |    |       |  | R504     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| Q850           | 8-729-281-53 | TRANSISTOR     | 2SC1815GR-TPE2    |    |       |  | △ R507   | 1-249-389-11 | CARBON      | 4.7     | 5% | 1/4W F |  |
| Q851           | 8-729-113-69 | TRANSISTOR     | FN1F4M-T1M32      |    |       |  | R508     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| Q852           | 8-729-119-76 | TRANSISTOR     | 2SA1115TP-F       |    |       |  | △ R509   | 1-249-393-11 | CARBON      | 10      | 5% | 1/4W F |  |
| < RESISTOR >   |              |                |                   |    |       |  |          |              |             |         |    |        |  |
| R360           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R530     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
| R361           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R531     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
| R362           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R532     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
| R363           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R533     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| R366           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R543     | 1-216-053-00 | METAL CHIP  | 1.5K    | 5% | 1/10W  |  |
| R367           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R544     | 1-216-037-00 | METAL CHIP  | 330     | 5% | 1/10W  |  |
| R368           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R601     | 1-216-025-11 | RES-CHIP    | 100     | 5% | 1/10W  |  |
| R369           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R602     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R370           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R604     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R371           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | △ R607   | 1-249-389-11 | CARBON      | 4.7     | 5% | 1/4W F |  |
| R372           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R608     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| R373           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | △ R609   | 1-249-393-11 | CARBON      | 10      | 5% | 1/4W F |  |
| R374           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | R630     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
| R375           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | R631     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
| R376           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | R643     | 1-216-053-00 | METAL CHIP  | 1.5K    | 5% | 1/10W  |  |
| R377           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | R644     | 1-216-037-00 | METAL CHIP  | 330     | 5% | 1/10W  |  |
| R378           | 1-216-025-11 | RES-CHIP       | 100               | 5% | 1/10W |  | R651     | 1-216-025-11 | RES-CHIP    | 100     | 5% | 1/10W  |  |
| R379           | 1-216-073-00 | METAL CHIP     | 10K               | 5% | 1/10W |  | R652     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R380           | 1-216-097-11 | RES-CHIP       | 100K              | 5% | 1/10W |  | R654     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R400           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | △ R657   | 1-249-389-11 | CARBON      | 4.7     | 5% | 1/4W F |  |
| R405           | 1-216-049-11 | RES-CHIP       | 1K                | 5% | 1/10W |  | R658     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| R408           | 1-216-049-11 | RES-CHIP       | 1K                | 5% | 1/10W |  | △ R659   | 1-249-393-11 | CARBON      | 10      | 5% | 1/4W F |  |
| R409           | 1-216-049-11 | RES-CHIP       | 1K                | 5% | 1/10W |  | R693     | 1-216-053-00 | METAL CHIP  | 1.5K    | 5% | 1/10W  |  |
| R410           | 1-216-049-11 | RES-CHIP       | 1K                | 5% | 1/10W |  | R694     | 1-216-037-00 | METAL CHIP  | 330     | 5% | 1/10W  |  |
| R411           | 1-216-049-11 | RES-CHIP       | 1K                | 5% | 1/10W |  | R701     | 1-216-025-11 | RES-CHIP    | 100     | 5% | 1/10W  |  |
| R425           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R702     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R428           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R704     | 1-216-081-00 | METAL CHIP  | 22K     | 5% | 1/10W  |  |
| R445           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | △ R707   | 1-249-389-11 | CARBON      | 4.7     | 5% | 1/4W F |  |
| R447           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | R708     | 1-216-089-11 | RES-CHIP    | 47K     | 5% | 1/10W  |  |
| R448           | 1-216-089-11 | RES-CHIP       | 47K               | 5% | 1/10W |  | △ R709   | 1-249-393-11 | CARBON      | 10      | 5% | 1/4W F |  |
|                |              |                |                   |    |       |  | R730     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |
|                |              |                |                   |    |       |  | R731     | 1-216-065-91 | RES-CHIP    | 4.7K    | 5% | 1/10W  |  |

The components identified by mark △ or dotted line with mark

以阴影和 △ 标志来识别的零部件。在安全方面具有关键

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# MAIN

# OPTICAL

# SIGNAL BRIDGE

# STAND BY

| Ref. No.      | Part No.      | Description                 | Remarks        |
|---------------|---------------|-----------------------------|----------------|
| R732          | 1-216-057-00  | METAL CHIP                  | 2.2K 5% 1/10W  |
| R734          | 1-216-073-00  | METAL CHIP                  | 10K 5% 1/10W   |
| R735          | 1-216-069-00  | METAL CHIP                  | 6.8K 5% 1/10W  |
| R736          | 1-216-049-11  | RES-CHIP                    | 1K 5% 1/10W    |
| R737          | 1-216-085-00  | METAL CHIP                  | 33K 5% 1/10W   |
| R738          | 1-216-065-91  | RES-CHIP                    | 4.7K 5% 1/10W  |
| R743          | 1-216-053-00  | METAL CHIP                  | 1.5K 5% 1/10W  |
| R744          | 1-216-037-00  | METAL CHIP                  | 330 5% 1/10W   |
| R751          | 1-216-025-11  | RES-CHIP                    | 100 5% 1/10W   |
| R752          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R754          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| △ R757        | 1-249-389-11  | CARBON                      | 4.7 5% 1/4W F  |
| R758          | 1-216-089-11  | RES-CHIP                    | 47K 5% 1/10W   |
| △ R759        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| R793          | 1-216-053-00  | METAL CHIP                  | 1.5K 5% 1/10W  |
| R794          | 1-216-037-00  | METAL CHIP                  | 330 5% 1/10W   |
| △ R801        | 1-249-381-11  | CARBON                      | 1 5% 1/4W F    |
| △ R803        | 1-249-406-11  | CARBON                      | 120 5% 1/4W F  |
| R804          | 1-216-085-00  | METAL CHIP                  | 33K 5% 1/10W   |
| R805          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| △ R810        | 1-240-877-11  | FUSIBLE                     | 0.15 5% 1/2W   |
| △ R811        | 1-240-877-11  | FUSIBLE                     | 0.15 5% 1/2W   |
| △ R850        | 1-249-402-11  | CARBON                      | 56 5% 1/4W F   |
| R851          | 1-216-073-00  | METAL CHIP                  | 10K 5% 1/10W   |
| R852          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R853          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| △ R854        | 1-249-425-11  | CARBON                      | 4.7K 5% 1/4W F |
| R855          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R856          | 1-216-065-91  | RES-CHIP                    | 4.7K 5% 1/10W  |
| R860          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R861          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R862          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R863          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| R864          | 1-216-081-00  | METAL CHIP                  | 22K 5% 1/10W   |
| △ R880        | 1-249-409-11  | CARBON                      | 220 5% 1/4W F  |
| △ RR11        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| △ RR12        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| △ RR13        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| △ RR14        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| △ RR15        | 1-249-393-11  | CARBON                      | 10 5% 1/4W F   |
| < RELAY >     |               |                             |                |
| RY550         | 1-755-170-11  | RELAY (12V)                 |                |
| RY560         | 1-755-267-11  | RELAY                       |                |
| RY601         | 1-755-170-11  | RELAY (12V)                 |                |
| RY730         | 1-755-170-11  | RELAY (12V)                 |                |
| < TERMINAL >  |               |                             |                |
| TM603         | 1-694-724-11  | SPEAKER TERMINAL (SPEAKERS) |                |
| *****         |               |                             |                |
| 1-679-014-11  | OPTICAL BOARD |                             |                |
| *****         |               |                             |                |
| < CAPACITOR > |               |                             |                |
| C1001         | 1-164-156-11  | CERAMIC CHIP                | 0.1uF 25V      |
| C1002         | 1-164-156-11  | CERAMIC CHIP                | 0.1uF 25V      |

| Ref. No.         | Part No.            | Description                   | Remarks           |
|------------------|---------------------|-------------------------------|-------------------|
| < CONNECTOR >    |                     |                               |                   |
| CNP807           | 1-770-405-11        | CONNECTOR, BOARD TO BOARD 8P  |                   |
| CNS806           | 1-750-179-11        | SOCKET, CONNECTOR 5P          |                   |
| < FERRITE BEAD > |                     |                               |                   |
| FB1306           | 1-414-813-11        | FERRITE                       | 0UH               |
| < IC >           |                     |                               |                   |
| IC1001           | 8-749-017-83        | IC TORX179P (DVD)             |                   |
| IC1002           | 8-749-017-83        | IC TORX179P (AUX)             |                   |
| < RESISTOR >     |                     |                               |                   |
| R1001            | 1-216-025-11        | RES-CHIP                      | 100 5% 1/10W      |
| R1002            | 1-216-025-11        | RES-CHIP                      | 100 5% 1/10W      |
| R1003            | 1-216-025-11        | RES-CHIP                      | 100 5% 1/10W      |
| R1004            | 1-216-025-11        | RES-CHIP                      | 100 5% 1/10W      |
| R1005            | 1-216-025-11        | RES-CHIP                      | 100 5% 1/10W      |
| *****            |                     |                               |                   |
| 1-679-012-11     | SIGNAL BRIDGE BOARD |                               |                   |
| *****            |                     |                               |                   |
| < CONNECTOR >    |                     |                               |                   |
| CNS808           | 1-770-410-11        | CONNECTOR, BOARD TO BOARD 18P |                   |
| CNS809           | 1-750-179-11        | SOCKET, CONNECTOR 5P          |                   |
| CNS811           | 1-695-095-11        | SOCKET, CONNECTOR 13P         |                   |
| *****            |                     |                               |                   |
| 1-679-011-11     | STAND BY BOARD      |                               |                   |
| *****            |                     |                               |                   |
| 1-533-293-11     | FUSE HOLDER         |                               |                   |
| < CAPACITOR >    |                     |                               |                   |
| C902             | 1-162-974-11        | CERAMIC CHIP                  | 0.01uF 50V        |
| C920             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| C921             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| C950             | 1-126-936-11        | ELECT                         | 3300uF 20.00% 16V |
| C951             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| C952             | 1-126-160-11        | ELECT                         | 1uF 20% 50V       |
| C953             | 1-124-464-11        | ELECT                         | 0.22uF 20% 50V    |
| C954             | 1-124-261-00        | ELECT                         | 10uF 20% 50V      |
| C955             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| C957             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| C958             | 1-164-156-11        | CERAMIC CHIP                  | 0.1uF 25V         |
| < CONNECTOR >    |                     |                               |                   |
| CNP803           | 1-784-921-11        | PIN, CONNECTOR 4P             |                   |
| CNP901           | 1-564-321-00        | PIN, CONNECTOR 2P             |                   |
| * CNP902         | 1-565-792-11        | PIN, CONNECTOR 2P             |                   |

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| Ref. No. | Part No.     | Description                 | Remarks | Ref. No. | Part No.     | Description                      | Remarks |
|----------|--------------|-----------------------------|---------|----------|--------------|----------------------------------|---------|
|          |              | < DIODE >                   |         |          |              | MISCELLANEOUS                    |         |
|          |              |                             |         |          |              | *****                            |         |
| D901     | 8-719-016-74 | DIODE 1SS352-TPH3           |         | 4        | 1-773-185-11 | WIRE (FLAT TYPE) (23 CORE)       |         |
| D910     | 8-719-053-18 | DIODE 1SR154-400TE-25       |         | 51       | 1-763-561-11 | FAN, D.C.                        |         |
| D911     | 8-719-053-18 | DIODE 1SR154-400TE-25       |         | △55      | 1-777-071-21 | CORD, POWER                      |         |
| D912     | 8-719-053-18 | DIODE 1SR154-400TE-25       |         | 57       | 1-500-386-11 | FILTER, CLAMP (FERRITE CORE)     |         |
| D913     | 8-719-053-18 | DIODE 1SR154-400TE-25       |         | △T901    | 1-435-687-11 | POWER TRANSFORMER                |         |
|          |              |                             |         |          |              | *****                            |         |
| D914     | 8-719-016-74 | DIODE 1SS352-TPH3           |         |          |              | ACCESSORIES & PACKING MATERIALS  |         |
| D915     | 8-719-016-74 | DIODE 1SS352-TPH3           |         |          |              | *****                            |         |
|          |              | < EARTH >                   |         |          |              |                                  |         |
| * EPT901 | 1-537-738-21 | TERMINAL, EARTH             |         |          | A-4412-472-A | STAND ASSY                       |         |
| * ETP201 | 1-537-738-21 | TERMINAL, EARTH             |         | △        | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK) |         |
| * ETP202 | 1-537-738-21 | TERMINAL, EARTH             |         |          |              |                                  |         |
|          |              | < FUSE >                    |         |          |              |                                  |         |
| △F901    | 1-532-463-51 | FUSE TIME LAG 2A/250V       |         |          |              |                                  |         |
|          |              | < IC >                      |         |          |              |                                  |         |
| IC950    | 8-759-544-04 | IC NJM2103M-TE2             |         |          |              |                                  |         |
|          |              | < JUMPER RESISTOR >         |         |          |              |                                  |         |
| JR200    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR201    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR202    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR205    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR206    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR210    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR211    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
| JR230    | 1-216-295-11 | SHORT 0                     |         |          |              |                                  |         |
|          |              | < TRANSISTOR >              |         |          |              |                                  |         |
| Q901     | 8-729-230-49 | TRANSISTOR 2SC2712-YG-TE85L |         |          |              |                                  |         |
| Q951     | 8-729-045-21 | TRANSISTOR 2SD1513TP-LK     |         |          |              |                                  |         |
|          |              | < RESISTOR >                |         |          |              |                                  |         |
| R902     | 1-216-089-11 | RES-CHIP 47K 5% 1/10W       |         |          |              |                                  |         |
| R903     | 1-216-065-91 | RES-CHIP 4.7K 5% 1/10W      |         |          |              |                                  |         |
| R950     | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W    |         |          |              |                                  |         |
| R951     | 1-216-065-91 | RES-CHIP 4.7K 5% 1/10W      |         |          |              |                                  |         |
| R952     | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W    |         |          |              |                                  |         |
| R953     | 1-216-081-00 | METAL CHIP 22K 5% 1/10W     |         |          |              |                                  |         |
| R954     | 1-216-089-11 | RES-CHIP 47K 5% 1/10W       |         |          |              |                                  |         |
| R955     | 1-216-073-00 | METAL CHIP 10K 5% 1/10W     |         |          |              |                                  |         |
| R956     | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W    |         |          |              |                                  |         |
| R957     | 1-216-049-11 | RES-CHIP 1K 5% 1/10W        |         |          |              |                                  |         |
| R958     | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W    |         |          |              |                                  |         |
| R960     | 1-216-065-91 | RES-CHIP 4.7K 5% 1/10W      |         |          |              |                                  |         |
|          |              | < RELAY >                   |         |          |              |                                  |         |
| △RY901   | 1-755-298-11 | RELAY                       |         |          |              |                                  |         |
|          |              | < TRANSFORMER >             |         |          |              |                                  |         |
| △T902    | 1-435-435-11 | TRANSFORMER, POWER          |         |          |              |                                  |         |

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## REVISION HISTORY

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