

SONY®

LCD MONITOR

LMD-9050

LMD-9030

LMD-9020

MONITOR ENG KIT
VF-509

SERVICE MANUAL

1st Edition (Revised 2)

警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

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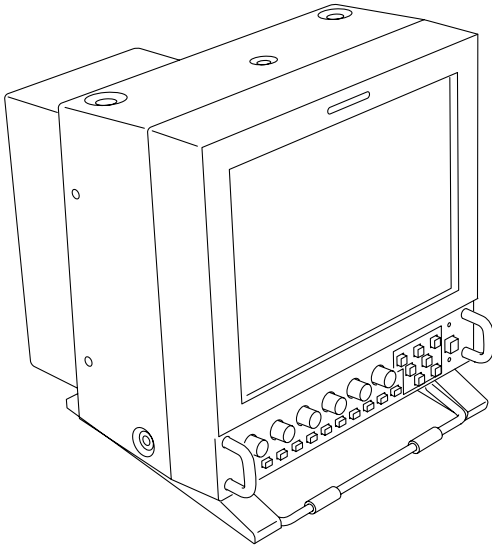
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Section 1

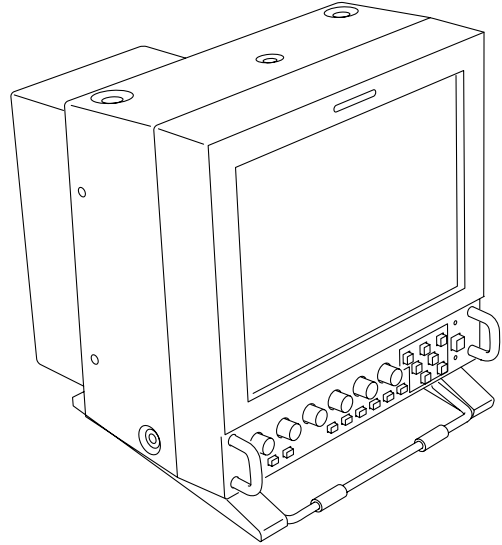
Service Overview

1-1. Appearance Figure

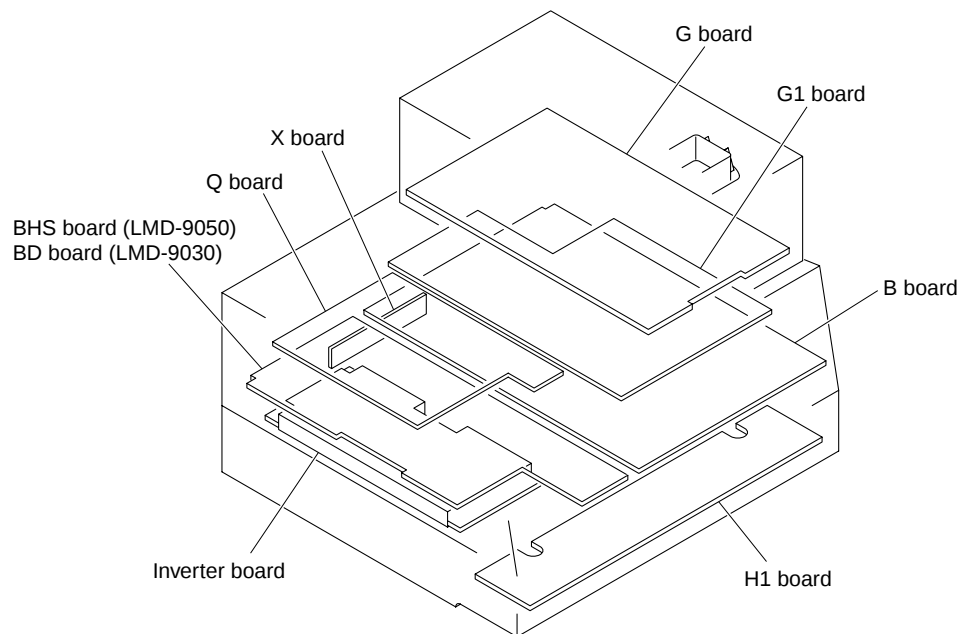
LMD-9050/9030



LMD-9020

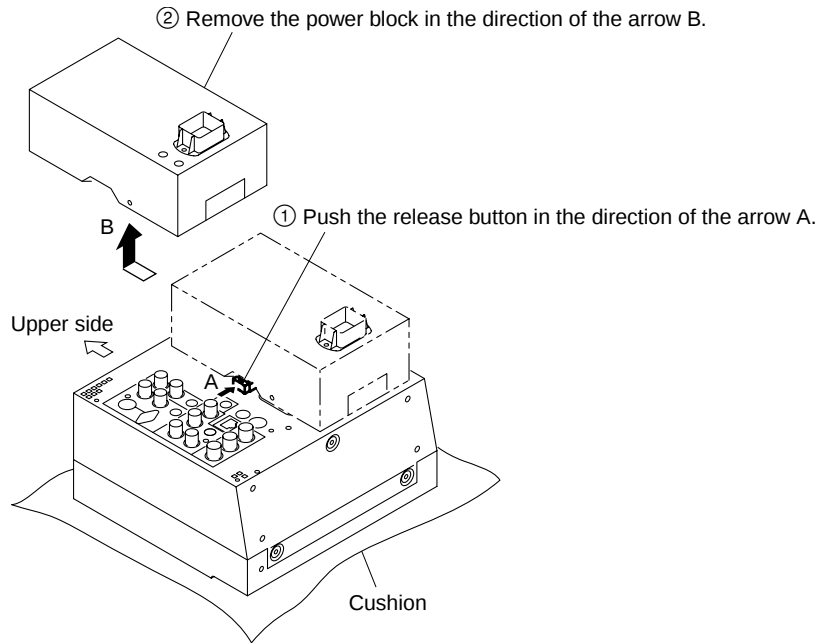


1-2. Board Location



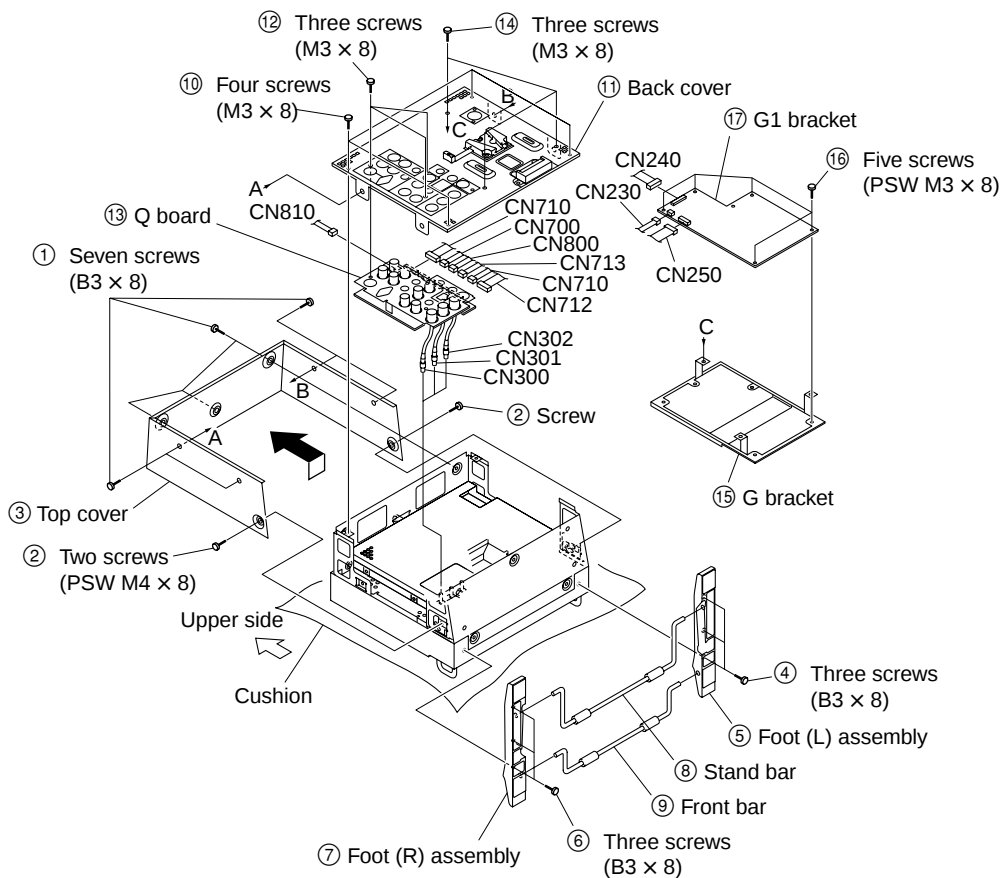
1-3. Disassembly

1-3-1. Power Block



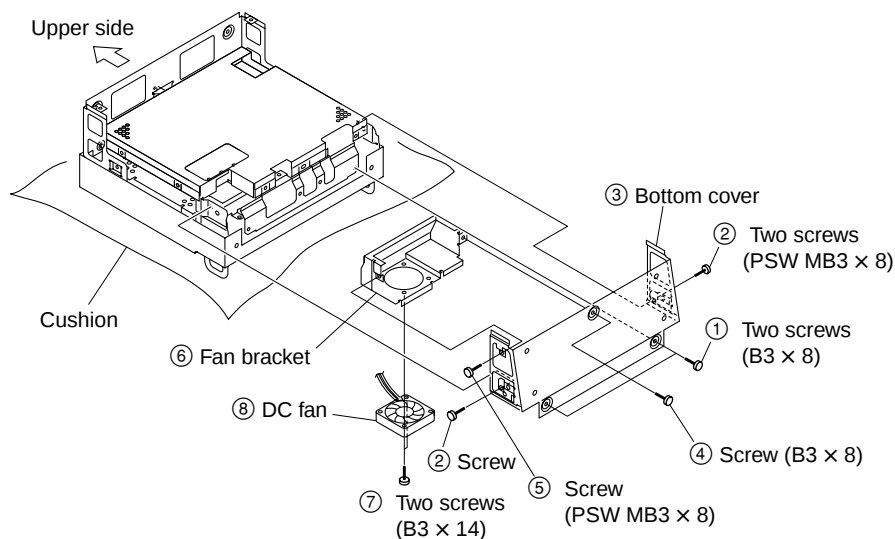
1-3-2. Back Cover/Q Board/G1 Board

- Remove the power block. (Refer to Section 1-3-1.)



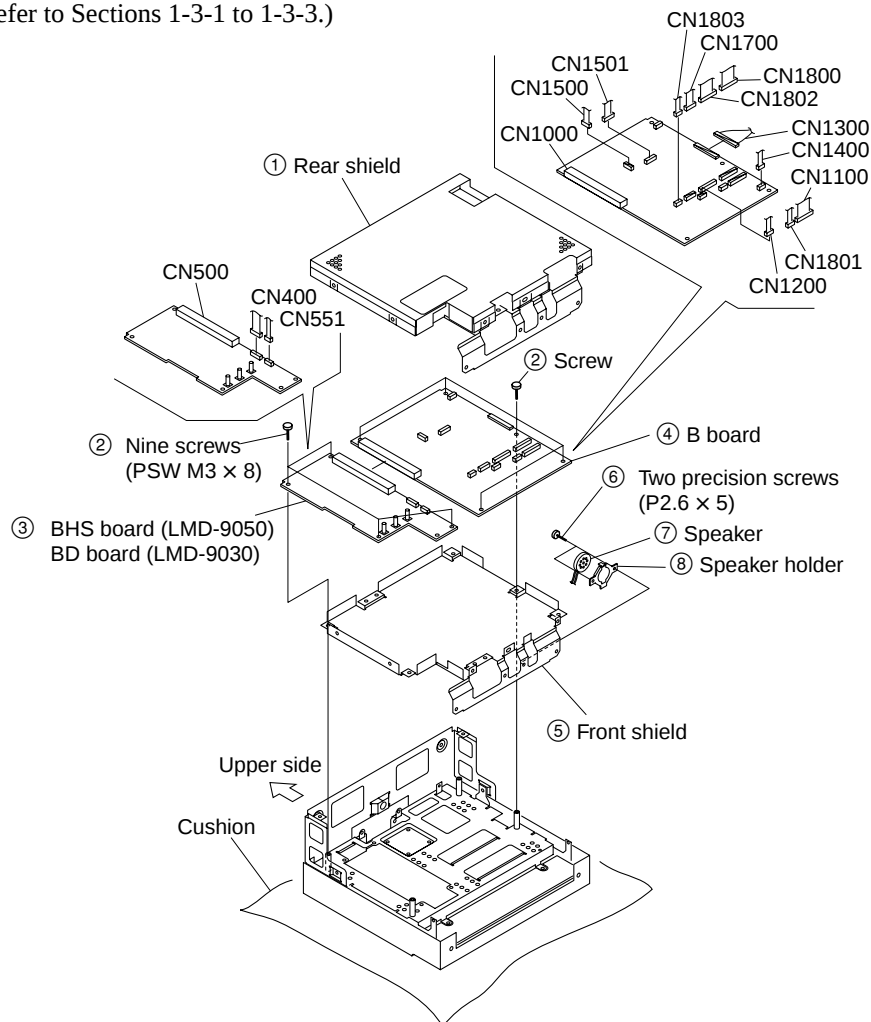
1-3-3. Bottom Cover/DC Fan

- Remove the power block. (Refer to Section 1-3-1.)
- Remove the rear block. (Refer to Section 1-3-2.)



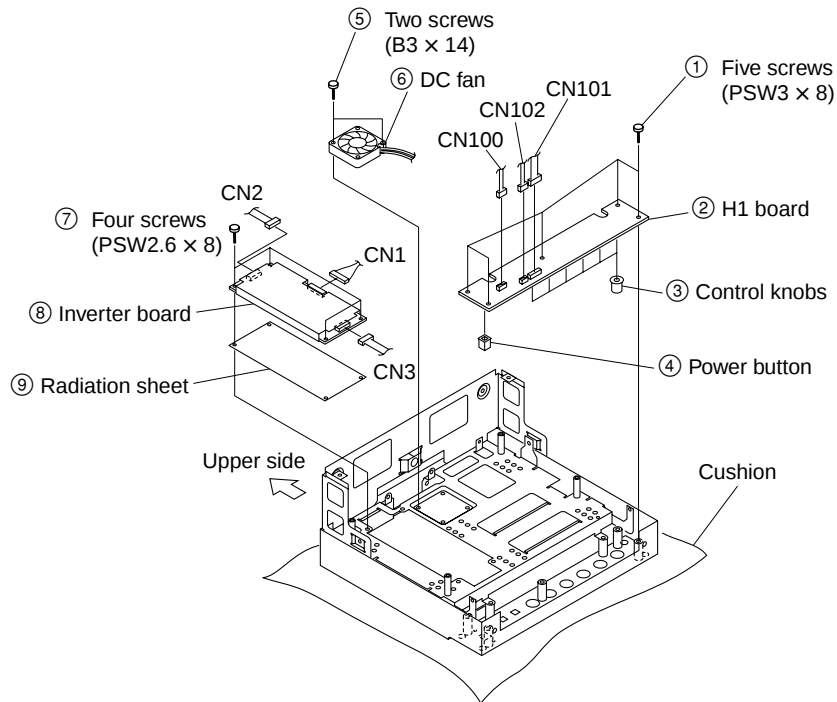
1-3-4. BHS Board (LMD-9050)/BD Board (LMD-9030)/B Board

- Remove each part. (Refer to Sections 1-3-1 to 1-3-3.)



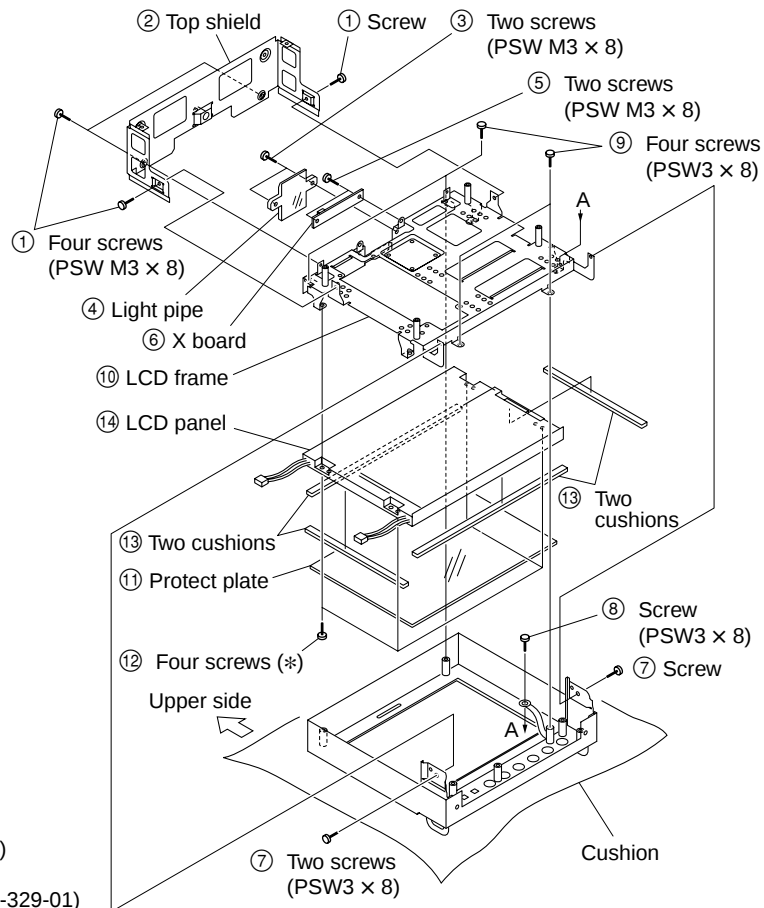
1-3-5. H1 Board/Inverter Board/S Board

- Remove each part. (Refer to Sections 1-3-1 to 1-3-4.)



1-3-6. X Board/LCD Panel

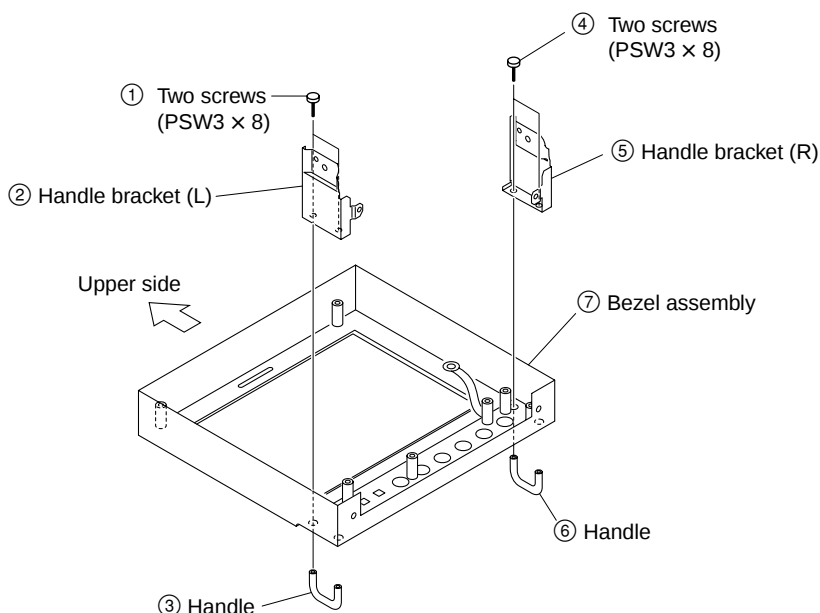
- Remove each part. (Refer to Sections 1-3-1 to 1-3-5.)



* LMD-9050
PSW2.6 × 8 (7-621-759-60)
LMD-9030/9020
SCREW, STOPPER (2-684-329-01)

1-3-7. Bezel Assembly

- Remove each part. (Refer to Sections 1-3-1 to 1-3-6.)



1-4. Unleaded Solder

Boards requiring use of unleaded solder are printed with a lead free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

Notes

- Be sure to use the unleaded solder for the printed circuit board printed with the lead free mark.
- The unleaded solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

1-5. Warning on Power Connection

Use a proper power cord for your local power supply.

	The United States, Canada	Continental Europe	UK, Ireland, Australia, New Zealand
Plug type	VM0233	COX-07/636	— ¹⁾
Female end	VM0089	COX-02/VM0310B	VM0303B
Cord type	STV	H05VV-F	CEE (13) 53rd (O, C)
Rated Voltage & Current	10 A/125 V	10 A/250 V	10 A/250 V
Safety approval	UL/CSA	VDE	VDE

1) Use an appropriate rating plug which is applied to local regulations.

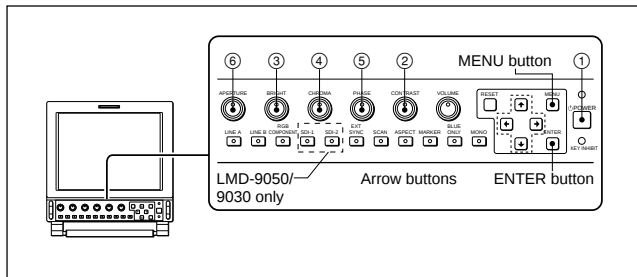
Section 2 Adjustment

2-1. Preparation

2-1-1. Setting of Button and Volume Controls

Note

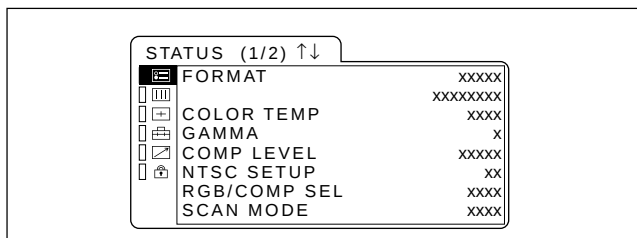
Set the switch and volume controls used during adjustment in this section as described below unless otherwise specified. A switch and volume controls other than GAMMA are all set using switches and volume controls on the front panel of this unit. GAMMA is set using a “Menu” function of this unit. (Refer to the description below.)



- ① POWER switch: ON
- ② CONTRAST volume control: MAX
(Turn it clockwise as far as it will go. ☺)
- ③ BRIGHT volume control: Center
- ④ CHROMA volume control: Center
- ⑤ PHASE volume control: Center
- ⑥ APERTURE volume control: MIN
(Turn it counterclockwise as far as it will go. ☹)
- ⑦ GAMMA: 3

Setting of GAMMA

1. Press the “MENU” button.
The menu selection screen is displayed.
The currently selected screen is displayed using a yellow button.



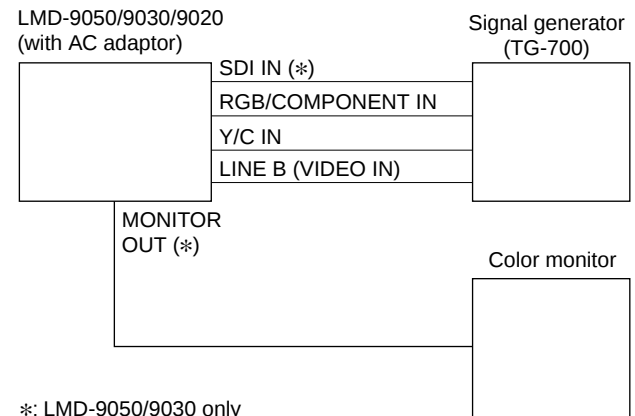
2. Select “USER CONFIG (1/2)” using a ↑ or ↓ button.
3. Press the → or “ENTER” button.
4. Select “GAMMA” using a ↑ or ↓ button.
5. Press the → or “ENTER” button.
6. Set a numeric value to “3” using a ← or → button.

LMD-9050/9030/9020

2-1-2. Equipment Required

- Digital voltmeter
- Signal generator TG-700
- Color analyzer CA-210/CA-110
- Color monitor

2-1-3. Connection



※: LMD-9050/9030 only

2-1-4. Starting the Service Mode

1. Press the “MENU” button.
The menu selection screen is displayed.
2. Press the “ENT” button while pressing and holding the “SCAN” button.
The service mode is started.

Note

During the subsequent level adjustment, the setting of S1 indicates the setting below.

- BLACK LEVEL = 16
- BRIGHT = 16
- CONTRAST = 31
- SATURATION = 61

2-2. Component (SMPTE480) Adjustment

1. Input a 100%-black signal of 480/60i (SMPTE) to the COMPONENT input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Select the COMPONENT (SMPTE480) adjustment mode and set it as described below.
 BRIGHT: 64
 CONTRAST: 0
 SATURATION: 0
4. Read the value (D_BRT0) of BLUE read data.
5. Set CONTRAST to “63” and adjust Y CLAMP so that BLUE read data (D_YCL_SM) is the same as D_BRT0 (reference value: D_BRT0 = 48).
 This adjustment value is prescribed as YCL_SM.
 $(D_YCL_SM = D_BRT0 \pm 1)$
6. Set SATURATION to “127” and adjust U CLAMP so that BLUE read data (D_UCL_SM) is the same as D_YCL_SM.
 This adjustment value is prescribed as UCL_SM.
 $(D_UCL_SM = YCL_SM \pm 1)$
7. Adjust V CLAMP so that RED read data (D_VCL_SM) is the same as D_YCL_SM.
 This adjustment value is prescribed as VCL_SM.
 $(D_VCL_SM = D_YCL_SM \pm 1)$
8. Return the setting of BRIGHT, CONTRAST, and SATURATION to S1 and set a 100% color-bar signal.
9. Set XY POSITION: WHITE and adjust Y GAIN so that BLUE read data (D_YG_SM) is the same as D_SDI_WH.
 This adjustment value is prescribed as YG_SM.
 $(D_YG_SM = D_YCL_SM \pm 1)$
10. Set XY POSITION: BLUE and adjust U GAIN so that BLUE read data (D_UG_SM) is the same as D_YG_SM.
 This adjustment value is prescribed as UG_SM.
 $(D_UG_SM = D_YG_SM \pm 1)$

11. Set XY POSITION: MAGENTA and adjust V GAIN so that RED read data (D_VG_SM) is the same as D_YG_SM.
 This adjustment value is prescribed as VG_SM.
 $(D_VG_SM = D_YG_SM \pm 1)$
12. Press the ENTER button to exit the service mode and then turn off and on the power.

2-3. Component (BETA0) Adjustment

1. Input a 100% color-bar signal of 480/60i (BETA0) to the COMPONENT input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Enter the COMPONENT (BETA0) adjustment mode to select BRIGHT, CONTRAST, and SATURATION and then set them to S1.
4. Name Y CLAMP, U CLAMP, and V CLAMP values as described below.
 Y CLAMP: YCL_B0
 U CLAMP: UCL_B0
 V CLAMP: VCL_B0
5. Read the data below into YCL_B0, UCL_B0, and VCL_B0.
 YCL_B0: YCL_SM
 UCL_B0: UCL_SM
 VCL_B0: VCL_SM
6. Set XY POSITION: WHITE and adjust Y GAIN so that BLUE read data (D_YG_B0) is the same as D_SDI_WH.
 This adjustment value is prescribed as YG_B0.
 $(D_YG_B0 = D_SDI_WH \pm 1)$
7. Set XY POSITION: BLUE and adjust U GAIN so that BLUE read data (D_UG_B0) is the same as D_YG_B0.
 This adjustment value is prescribed as UG_B0.
 $(D_UG_B0 = D_YG_B0 \pm 1)$
8. Set XY POSITION: MAGENTA and adjust V GAIN so that RED read data (D_VG_B0) is the same as D_YG_B0.
 This adjustment value is prescribed as VG_B0.
 $(D_VG_B0 = D_YG_B0 \pm 1)$
9. Press the ENTER key to exit the adjustment mode and then turn off and on the power.

2-4. Component (BETA7.5) Adjustment

1. Input a 100%-black signal of 480/60i (BETA7.5) to the COMPONENT input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Select the COMPONENT (BETA7.5) adjustment mode and name it as described below.
Y CLAMP: YCL_B7
U CLAMP: UCL_B7
V CLAMP: VCL_B7
4. Read the data below into YCL_B7, UCL_B7, and VCL_B7.
YCL_B7: YCL_SM
UCL_B7: UCL_SM
VCL_B7: VCL_SM
5. Set BRIGHT, CONTRAST, and SATURATION as described below.
BRIGHT: 64
CONTRAST: 63
SATURATION: 0
6. Adjust the black level so that BLUE read data (D_BKL_B7) is the same as D_BRT0.
This adjustment value is prescribed as BKL_B7.
(D_BKL_B7 = D_BRT0_SM $\pm$ 1)
7. Return the setting of BRIGHT, CONTRAST, and SATURATION to S1 and set a 100% color-bar signal.
8. Set XY POSITION: WHITE and adjust Y GAIN so that BLUE read data (D_YG_B7) is the same as D_SDI_WH.
This adjustment value is prescribed as YG_B7.
(D_YG_B7 = D_SDI_WH_SM $\pm$ 1)
9. Set XY POSITION: BLUE and adjust U GAIN so that BLUE read data (D_UG_B7) is the same as D_YG_B7.
This adjustment value is prescribed as UG_B7.
(D_UG_B7 = D_YG_B7 $\pm$ 1)
10. Set XY POSITION: MAGENTA and adjust V GAIN so that RED read data (D_VG_B7) is the same as D_YG_B7.
This adjustment value is prescribed as VG_B7.
(D_VG_B7 = D_YG_B7 $\pm$ 1)
11. Press the ENTER key to exit the service mode and then turn off and on the power.

2-5. Component (SMPTE1080) Adjustment (Software version 1.20 or later)

1. Input a 100%-black signal of 1080/60i to the COMPONENT input terminal and display an image.
2. Start the service mode. (Refer to section 2-1-4.)
3. Select the COMPONENT (SMPTE1080) adjustment mode and set it as described below.
BRIGHT: 64
CONTRAST: 63
SATURATION: 0
4. Adjust Y CLAMP so that BLUE read data (D_YCL_HD) is the same as D_BRT0.
This adjustment value is prescribed as YCL_HD.
(D_YCL_HD = D_BRT0 $\pm$ 1)
5. Set SATURATION to "127" and adjust U CLAMP so that BLUE read data (D_UCL_HD) is the same as D_VCL_HD.
This adjustment is prescribed as UCL_HD.
(D_UCL_HD = D_YCL_HD $\pm$ 1)
6. Adjust V CLAMP so that RED read data (D_VCL_HD) is the same as D_YCL_HD.
This adjustment value is prescribed as VCL_HD.
(D_VCL_HD = D_YCL_HD $\pm$ 1)
7. Return the setting of BRIGHT, CONTRAST, and SATURATION to S1 and set a 100% color-bar signal.
8. Set XY POSITION: WHITE and adjust Y GAIN so that BLUE read data (D_YG_HD) is the same as D_SDI_WH.
This adjustment value is prescribed as YG_HD.
(D_YG_HD = D_SDI_WH $\pm$ 1)
9. Set XY POSITION: BLUE and adjust U GAIN so that BLUE read data (D_UG_HD) is the same as D_YG_HD.
This adjustment value is prescribed as UG_HD.
(D_UG_HD = D_YG_HD $\pm$ 1)
10. Set XY POSITION: MAGENTA and adjust V GAIN so that RED read data (D_VG_HD) is the same as D_YG_HD.
This adjustment value is prescribed as VG_HD.
(D_VG_HD = D_YG_HD $\pm$ 1)
11. Press the ENTER key to exit the adjustment mode and then turn off and on the power.

2-6. RGB (480) Adjustment

1. Input a 100%-black signal of 480/60i RGB to the RGB input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Select the RGB (480) adjustment mode and set it as described below.
BRIGHT: 64
CONTRAST: 63
SATURATION: 0
4. Move and adjust so that GREEN read data (D_GCL_RGB) is the same as D_BRT0 and so that G CLAMP, B CLAMP, and R CLAMP have simultaneously the same value.
 $D_GCL_RGB = D_BRT0 \pm 1$
5. Set SATURATION to "127" and fine-adjust R CLAMP and B CLAMP so that BLUE read data (D_BCL_RGB) and RED read data (D_RCL_RGB) are the same as D_BRT0.
 $(D_BCL_RGB = D_BRT0 \pm 1)$
 $(D_RCL_RGB = D_BRT0 \pm 1)$
6. Return the setting of BRIGHT and CONTRAST to S1, set the SATURATION value to 0, and set a 100% color-bar signal.
7. Set XY POSITION: WHITE and then move and adjust so that GREEN read data (D_GG_RGB) is the same as D_SDI_WH and so that G GAIN, B GAIN, and R GAIN have simultaneously the same value.
 $(D_GG_RGB = D_SDI_WH \pm 1)$
8. Set SATURATION to 61 and adjust B GAIN and R GAIN so that BLUE read data (D_BG_RGB) and RED read data (D_RG_RGB) are the same as GREEN read data (D_GG_RGB).
 $(D_BG_RGB = D_GG_RGB \pm 1)$
 $(D_RG_RGB = D_GG_RGB \pm 1)$
9. Set XY POSITION: BLUE and adjust SATURATION so that BLUE read data (D_SAT_RGB) is the same as D_GG_RGB.
 $(D_SAT_RGB = D_GG_RGB \pm 1)$
10. Press the ENTER key to exit the adjustment mode and then turn off and on the power.

2-7. RGB (1080) Adjustment (Software version 1.20 or later)

1. Input a 100%-black signal of 1080/60i RGB and display an image.
2. Start the service mode. (Refer to section 2-1-4.)
3. Select the RGB (1080) adjustment and set it as described below.
BRIGHT: 64
CONTRAST: 63
SATURATION: 0
4. Move and adjust so that GREEN read data (D_GCL_HDRGB) is the same as D_BRT0 and so that G CLAMP, B CLAMP, and R CLAMP have simultaneously the same value.
 $(D_GCL_HDRGB = D_BRT0 \pm 1)$
5. Set SATURATION to "127" and fine-adjust R CLAMP and B CLAMP so that BLUE read data (D_BCL_HDRGB) and RED read data (D_RCL_HDRGB) are the same as D_BRT0.
 $(D_BCL_HDRGB = D_BRT0 \pm 1)$
 $(D_RCL_HDRGB = D_BRT0 \pm 1)$
6. Return the setting of BRIGHT and CONTRAST to S1, set the SATURATION value to 0, and set a 100% color-bar signal.
7. Set XY POSITION: WHITE and then move and adjust so that GREEN read data (D_GG_HDRGB) is the same as D_SDI_WH and so that G GAIN, B GAIN, and R GAIN have simultaneously the same value.
 $(D_GG_HDRGB = D_SDI_WH \pm 1)$
8. Set SATURATION to 61 and adjust B GAIN and R GAIN so that BLUE read data (D_BG_HDRGB) and RED read data (D_RG_HDRGB) are the same as GREEN read (D_GG_HDRGB).
 $(D_BG_HDRGB = D_GG_HDRGB \pm 1)$
 $(D_RG_HDRGB = D_GG_HDRGB \pm 1)$
9. Set XY POSITION: BLUE and adjust SATURATION so that BLUE read data (D_SAT_HDRGB) is the same as D_GG_HDRGB.
 $(D_SAT_HDRGB = D_GG_HDRGB \pm 1)$
10. Press the ENTER key to exit the adjustment mode and then turn off and on the power.

2-8. Adjustment of NTSC

1. Input a 100%-black signal of NTSC to the LINE input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Select the COMPOSITE (NTSC) adjustment mode and set BRIGHT = 64, CONTRAST = 63, and SATURATION = 0.
4. Adjust D BRIGHT so that BLUE read data (D_BRTNT) is the same as D_BRT0.
This adjustment value is prescribed as BRTNT.
(D_BRTNT = D_BRT0 ± 1)
Set BRIGHT and CONTRAST to S1 and then set SATURATION to 0.
5. Input a 100% color-bar signal and set XY POSITION: WHITE.
6. Adjust D CONTRAST so that BLUE read data (D_CONTNT) is the same as D_SDI_WH.
(D_CONTNT = D_SDI_WH ± 1)
7. Set SATURATION to S1, set an SMPTE color-bar signal, and read the value (D_NTSC_WH) of BLUE read data.
8. Set XY POSITION: BLUE and adjust CB SATURATION so that BLUE read data (D_NTSC_BL) is the same as D_NTSC_WH.
At that time, CR SATURATION is also adjusted to the same value.
(D_NTSC_BL = D_NTSC_WH ± 3)
9. Adjust the hue so that the BLUE read data (D_NTSC_CY) when XY POSITION: CYAN is set is the same as the BLUE read data (D_NTSC_MG) when XY POSITION: MAGENTA is set.
(D_NTSC_CY = D_NTSC_MG ± 3)
10. Press the ENTER key to exit the adjustment mode and then turn off and on the power.

2-9. Adjustment of PAL

1. Input a 100% color-bar signal of PAL to the LINE input terminal and display an image.
2. Start the service mode. (Refer to Section 2-1-4.)
3. Make the adjustment value (BRTPAL) the same as that of BRTNT and set SATURATION to 0.
BRTPAL = BRTNT
4. Input a 100% color-bar signal and set XY POSITION: WHITE.
5. Adjust D CONTRAST so that BLUE read data (D_CONTPAL) is the same as D_SDI_WH.
(D_CONTPAL = D_SDI_WH ± 1)

5. Adjust D CONTRAST so that BLUE read data (D_CONTPAL) is the same as D_SDI_WH.
(D_CONTPAL = D_SDI_WH ± 1)
6. Set SATURATION to S1, set an SMPTE color-bar signal, and read the value (D_PAL_WH) of BLUE read data.
7. Set XY POSITION: BLUE and adjust CB SATURATION so that BLUE read data (D_PAL_BL) is the same as D_PAL_WH.
At that time, CR SATURATION is also adjusted to the same value. (D_PAL_BL = D_PAL_WH ± 3)
8. Press the ENTER key to exit the adjustment mode and then turn off and off the power.

2-10. White Balance Adjustment

Note

The white balance adjustment should be performed using COMPONENT (SMPTE480) and COMPOSITE (NTSC) signals.

1. Select SIG → WHITE BALANCE → COLOR TEMP and LOW from the service menu.
2. Switch ADJUST GAIN/BIAS and adjust so that a color temperature of 10 IRE/80 IRE satisfies the specifications.
Specifications:
 - Be sure to set any of R, G, and B gains to “290” and adjust the remaining two colors so that they are less than 290.
 - Fix the bias to G = 128 and change R and B for adjustment.LOW: x = 0.3133, y = 0.3297 (6500 K) Within 1 JND
HIGH: x = 0.2838, y = 0.2981 (9300 K) Within 1 JND
3. Select SIG → WHITE BALANCE → COLOR TEMP and HIGH from the service menu.
4. Adjust so that the specifications in a high level are satisfied in the same procedure as step 2.

2-11. Free-running Frequency Adjustment

1. Apply 5 V to pins A39, A40 and B40 of the CN500 on the BD board.
2. Check the waveform of TP300 (SDI_PCK) on the BD board using the oscilloscope and check that the following specification is satisfied.
Specification: 27 MHz (clock frequency)
Adjustment point: ●RV301 (BD board)

Section 3

Circuit Operation Description

3-1. BHS Board (LMD-9050)

The BKM-243HS consists of the following blocks. (Refer to Fig. 3-1.)

- HD/SD-SDI signal reception block
- Digital Video signal processing block
- Digital Audio signal processing block
- D/A Converter block for Digital Audio

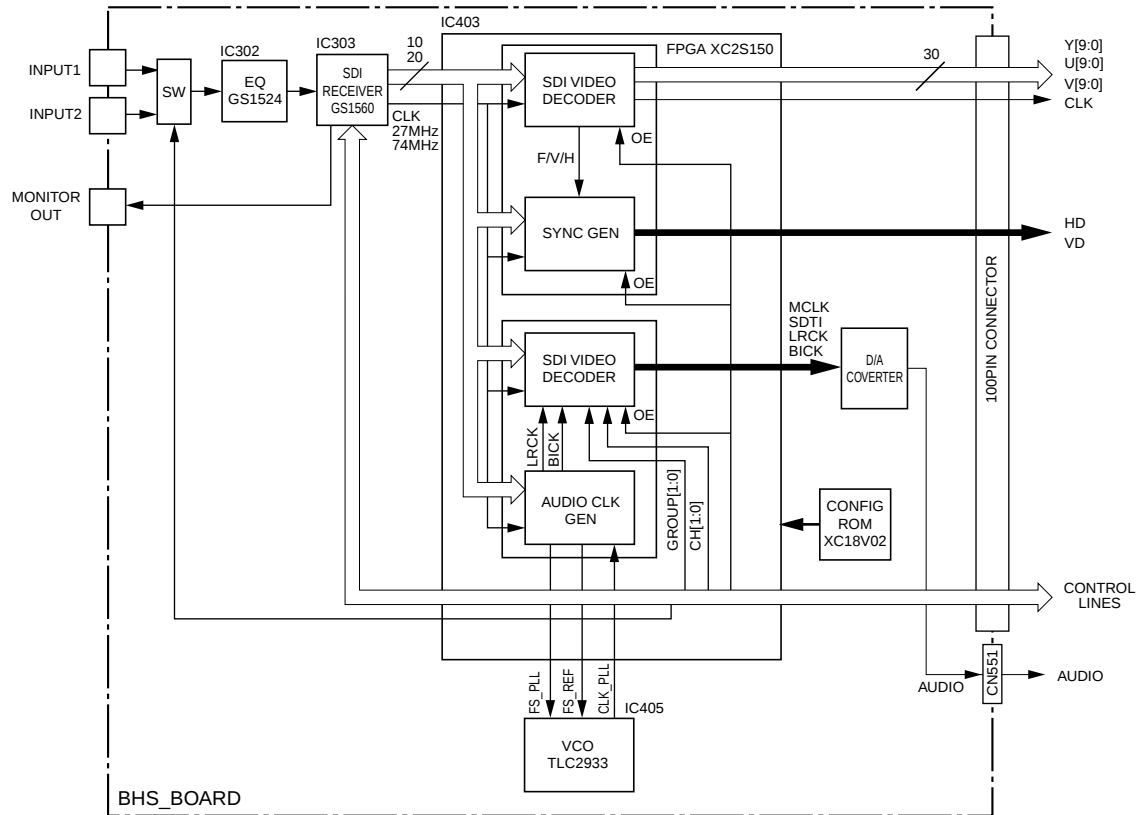


Fig. 3-1

3-1-1. HD/SD-SDI Signal Reception Block

The input HD/SD-SDI signals from INPUT-1 and INPUT-2 terminals are sent to the Relay (RY300). The relay switches the signals with the input selection on the front panel. The selected signal is sent to the cable equalizer device GS1524 (IC302) and is compensated its wave-shape.

The output signal from the equalizer device is sent to the HD/SD-SDI receiver device GS1560 (IC303). Processing of the reception signal is performed by the device GS1560. The GS1560 automatically detects the signal format (HD-SDI or SD-SDI). The input HD/SD-SDI signal is converted to the parallel signal and is output. The re-clocked signal is also output from the GS1560 and is sent to the MONITOR OUTPUT terminal. Among the input-1 and -2, the selected input is output from the Monitor Output.

3-1-2. Digital Video Signal Processing Block (FPGA XC2S150:IC403)

The digital video signal processing block consists of the video decode block and the sync signal generator block.

1. Video decode block

The input parallel signal (27 MHz or 74.25 MHz) is decoded to the 10-bit Y signal, 10-bit R-Y signal and 10-bit B-Y signal. The decoded 10-bit Y signal, 10-bit R-Y signal and 10-bit B-Y signal are output from this block.

2. Sync signal generator block

The H-sync signal and the V-sync signal are generated from the input parallel signals of the EAV/ SAV signals.

3-1-3. Digital Audio Signal Processing Block (FPGA XC2S150:IC403)

The embedded audio signal of the input parallel signal is decoded, is re-clocked by the audio clock signal that is generated by the PLL circuit (TL2933:IC405). After these processing are implemented, the digital audio signal is output as the 4-bit signal as shown below.

SDTI: Audio serial data

MCLK: Master clock (256 fs = 12.3 MHz)

BICK: Audio serial clock (64fs = 3.1 MHz)

LRCK: L/R-ch clock (fs = 48 kHz)

3-1-4. D/A Converter Block for Digital Audio

The digital audio signal from IC403 is sent to D/A Converter (AK4380VT:IC551).

The analogue audio signals (L-ch and R-ch) are mixed and sent to the buffer (NJM4558:IC552).

After these processing, the analogue audio signal is output to CN551.

3-1-5. Others

FPGA (IC403) is a programmable device.

FPGA (IC403) reads out the configuration data from PROM (IC402) when the power is turned on. It writes down the data into the internal memory to start the operations.

When PROM (IC402) is going to be replaced, the Xilinx Programming Tool must be used to write down the data upon completion of the replacement.

3-2. BD Board (LMD-9030)

The BD Board consists of the following blocks. (Refer to Fig. 3-2.)

- D1-SDI signal reception block
- Digital Video signal processing block
- Digital Audio signal processing block
- D/A Converter block for Digital Audio

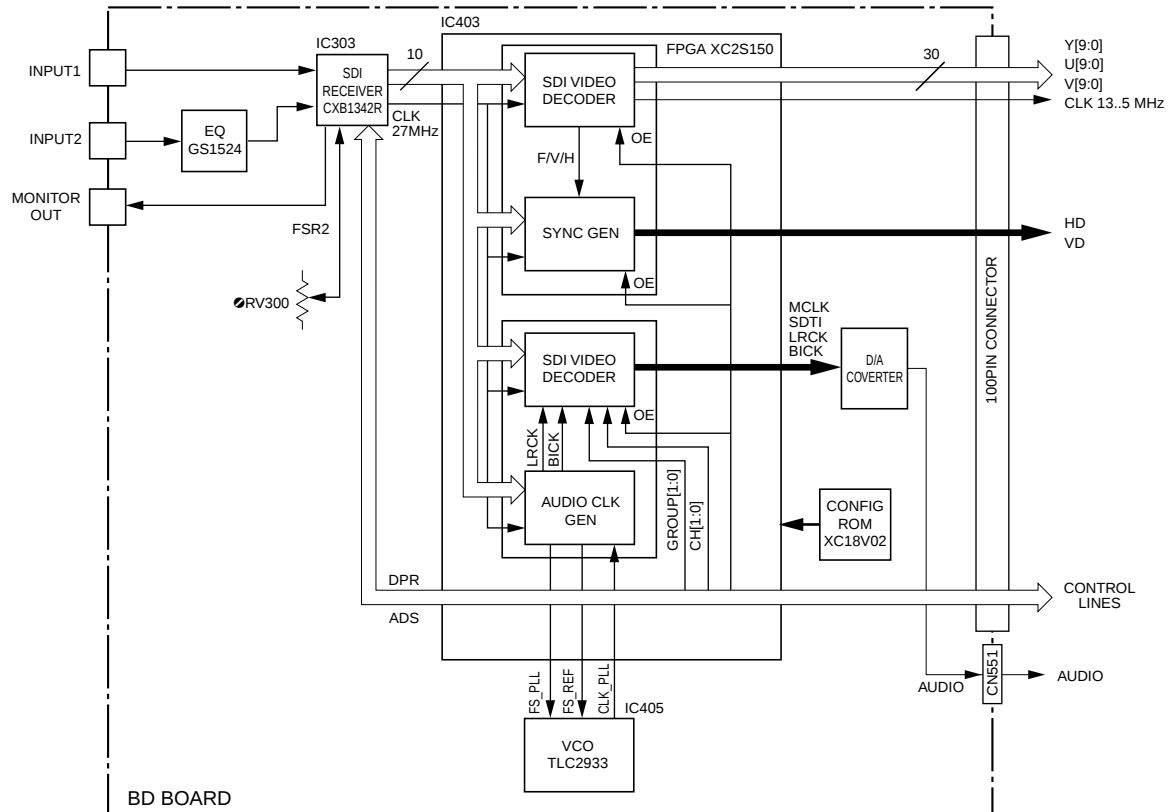


Fig. 3-2

3-2-1. D1-SDI Signal Reception Block

The input D1-SDI signal from INPUT-1 terminal is sent to the analogue input terminal of the SDI receiver (IC302). And the input D1-SDI signal from INPUT-2 terminal is sent to the cable Equalizer device (IC301) and its output is sent to the digital input terminal of the SDI receiver (IC302). INPUT-1 or INPUT-2 is selected by the input selection switch on the front panel via the control line named "ADS". Processing of the reception signal is performed by the SDI receiver (IC302). The input D1-SDI signal is converted to the parallel signal and is output. The re-clocked signal is also output from the SDI receiver (IC302) and is sent to the MONITOR OUTPUT terminal. Among the input-1 and -2, the selected input is output from the Monitor Output.

3-2-2. Digital Video Signal Processing Block (FPGA XC2S150: IC403)

The digital video signal processing block consists of the video decode block and the sync signal generator block.

1. Video decode block

The input parallel signal (27 MHz) is decoded to the 10-bit Y signal, 10-bit R-Y signal and 10-bit B-Y signal. The decoded 10-bit Y signal, 10-bit R-Y signal and 10-bit B-Y signal are output from this block.

2. Sync signal generator block

The H-sync signal and the V-sync signal are generated from the input parallel signals of the EAV/SAV signals.

3-2-3. Digital Audio Signal Processing Block (FPGA XC2S150: IC403)

The embedded audio signal of the input parallel signal is decoded, is re-clocked by the audio clock signal that is generated by the PLL circuit (TL2933: IC405). After these processing are implemented, the digital audio signal is output as the 4-bit signal as shown below.

SDTI: Audio serial data

MCLK: Master clock ($256 \text{ fs} = 12.3 \text{ MHz}$)

BICK: Audio serial clock ($64 \text{ fs} = 3.1 \text{ MHz}$)

LRCK: L/R-ch clock ($\text{fs} = 48 \text{ kHz}$)

3-2-4. D/A Converter Block for Digital Audio

The digital audio signal from IC403 is sent to D/A Converter (AK4380VT: IC551).

The analogue audio signals (L-ch and R-ch) are mixed and sent to the buffer (NJM4558: IC552).

After these processing, the analogue audio signal is output to CN551.

3-2-5. Others

FPGA (IC403) is a programmable device.

FPGA (IC403) reads out the configuration data from PROM (IC402) when the power is turned on. It writes down the data into the internal memory to start the operations.

When PROM (IC402) is going to be replaced, the Xilinx Programming Tool must be used to write down the data upon completion of the replacement.

3-3. H1 Board

3-3-1. Overview

H1 board is the circuit board for the front control panel.

3-3-2. Circuit Configuration

The block diagram of H1 board is described in Figure 3-3. H1 board consists of VR block, Push SW/LED block, “MENU KEY” concerned block and Power SW block.

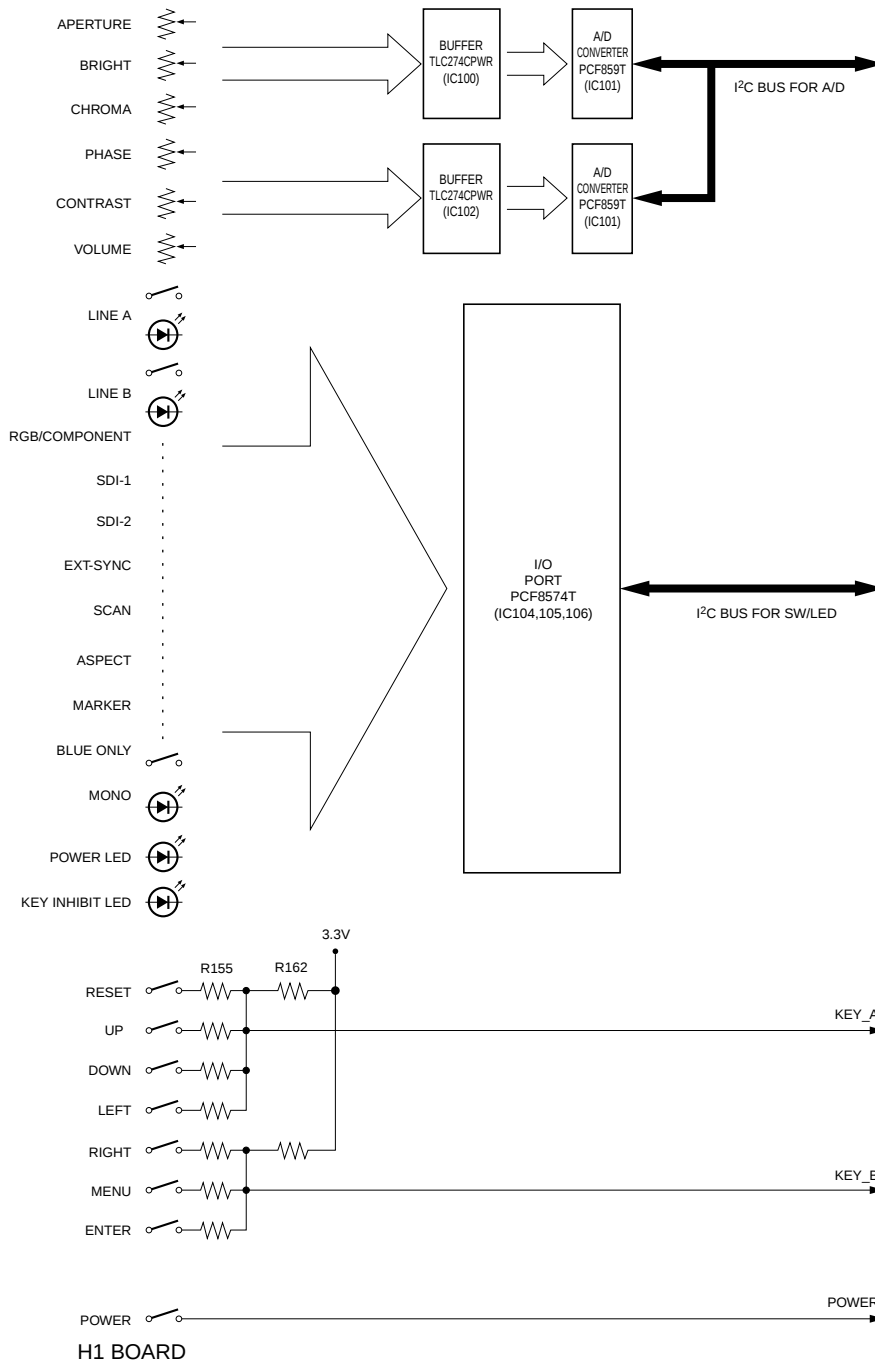


Fig. 3-3

3-3-3. VR (Variable Resistor) Block

DC 5 V is applied to the both end terminals of VR. And the DC voltage from the sliding terminal of VR is sent to the buffer (TLC274CPWR:IC100, 102), thereafter, is input to the A/D converter (PCF8591T:IC101, 103). And the data is transferred to the MPU through the I²C bus. VR controls are APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST, VOLUME.

3-3-4. Push SW/LED Block

The 11 push switches with a LED are on H1 board. And functions are LINE A, LINE B, RGB/COMPONENT, SDI-1, SDI-2, EXT SYNC, SCAN, ASPECT, MARKER, BLUE ONLY, MONO. And there are 2 other LED's (POWER, KEY INHIBIT). LED's are connected to the output ports of the I/O ports device (PCF8574T:IC104 to 106), And push switches are connected to the input ports of the I/O ports device. And the data communications are performed through the I²C bus.

3-3-5. "MENU KEY" Concerned Block

"RESET", "UP", "DOWN", "LEFT" Keys are assigned to the group of "KEY-A", and "RIGHT", "MENU", "ENTER" Keys are assigned to the group of "KEY-B". The identification of the key is performed by the DC voltage from the division of DC 3.3 V by the two resistors. For example, when "RESET" key is pushed, DC3.3 V is divided by R162 and R155, and this DC voltage is transferred to the B board through "KEY-A" line, thereafter A/D conversion is performed and the key is identified.

3-3-6. Power Switch Block

The power switch is a mechanical switch, and the status of OPEN or SHORT is transferred to the G1 board.

3-4. G1 Board

A power voltage of approximately 13 V is supplied through a fuse (F200) and relay (RY200) to DC-DC converters so as to produce 12 V, 5 V, -5 V, 3.3 V, and 2 V voltages when it is supplied from an AC adaptor, lithium ion battery, or DC power block to CN210 or CN220. The DC-DC converter for producing 12 V consists of IC220, Q221, Q223, Q226, and Q227. 12 V is supplied as back light power. The DC-DC converter for producing 2 V consists of IC220, Q224, and Q225.

2 V is mainly supplied to the B and BHS boards. The DC-DC converter for producing 5 V consists of IC260, Q260, and Q216.

5 V is separated using L262 and L263 and supplied to the B, BHS, Q, and H1 boards as digital 5 V and analog 5 V. The DC-DC converter for producing 3.3 V consists of IC260, Q262, Q263, Q264, and Q265. 3.3 V is supplied to the B, BHS, Q, and H1 boards. The DC-DC converter for producing -5 V consists of IC261. -5 V is supplied to the B, BHS, and Q boards. A power switch turns off Q200 by connecting pin 1 of CN200 to GND and drives a relay and turns on the power by turning on Q201.

IC200 is a comparator that shuts down it for battery protection when a battery voltage becomes 9.5 V or less and that shuts down it for DC-DC converter protection when a battery voltage becomes 19.5 V or more.

3-5. Q Board

The Q board consists of line A/B video and audio buffers, RGB (component) video and audio buffers, and an EXT SYNC buffer. An S input is common in the front button to line A and has priority by inserting an S terminal. The parallel remote data of J770 is digital-converted using IC770 and sent to a microcomputer so as perform each operation. Additionally, audio switch circuits are provided. The output signal of audio switch circuits is sent to the AUDIO OUT circuit on the B board.

3-6. X Board

The X board consists of tally lamp LED. The contents of the tally lamp LED are red and green. Red, green, or amber can be selected from a menu.

Section 4

Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section.

However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.

In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.

The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.

Pin assignments and block diagrams are based on the IC manufacturer’s data book.

本機に使用されている半導体型名の一覧を下記に示します。索引中、ページが記載されている半導体は、本章の該当ページを参照してください。ただし、互換性のない型名を併記している場合がありますので、部品を交換するときは、Spare Partsの章を参照してください。

また、ID番号が記載されている半導体は、別途発行の“Semiconductor Pin Assignments” CD-ROM版 (ソニー部品番号：9-968-546-xx)を参照してください。

半導体型名またはID番号から検索ができます。

マニュアルまたはCD-ROMに掲載されている半導体は、それぞれの機能を等価的に表わしたものです。

外観やインデックスマークの表示方法が実物と異なる場合があります。

ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE	Page or ID No.
1SS226	DC001-01
1SS352	DC008-02

RB060L-40TE25	DC007-01
RD13SB-T1	DC008-04
RD3.3SB	DC008-04
RD3.3SB-T1	DC008-04

UDZS-TE17-5.6B	DC008-04
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LED	Page or ID No.
SML-020MLTT87	LC009-02
SML-020MVT-T87	LC009-02

TRANSISTOR	Page or ID No.
2SA1576A-T106-QR	TC001-01
2SC3356-R24	TC001-02
2SC4081-R	TC001-02
2SC4081T106R	TC001-02

DTA114EUA-T106	TC001-04
DTA123JUA-T106	TC001-04
DTA144EKA-T146	TC001-04
DTA144EUA-T106	TC001-04
DTC114EKA-T146	TC001-03
DTC143EKA-T146	TC001-03
DTC144EUA-T106	TC001-03

HAT2064R-EL	TC013-06
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IC	Page or ID No.
AK4380VT-E2	AK4380VT-E2

BA033FP	L78M05T-FA
BA033FP-E2	L78M05T-FA
BA18BC0FP-E2	BA18BC0FP-E2
BA25BC0FP-E2	BA18BC0FP-E2
BA25BC0FP-TE2	BA18BC0FP-E2

CXB1340N	CXB1340N
CXB1342R	CXB1342R

MAX202CSE	MAX202CSE
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NJM2903M	UA393DC
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PCF8574T	PCF8574T
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SN74LV14APWR	TC74HC14P
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TC74HC4053AFT(EL)	MC74HC4053F
TC74VHC123AFT(EL)	TC74HC123P
TL431CPK-E2	NJM431U
TLC274CPWR-12	TLC27M4CN
TLC2933IPWR-12	TLC2933IPWR
TPS5120DBTR	TPS5120DBTR

XC18V02VQG44C	XC18V02VQG44C
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Section 5

Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation.
Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

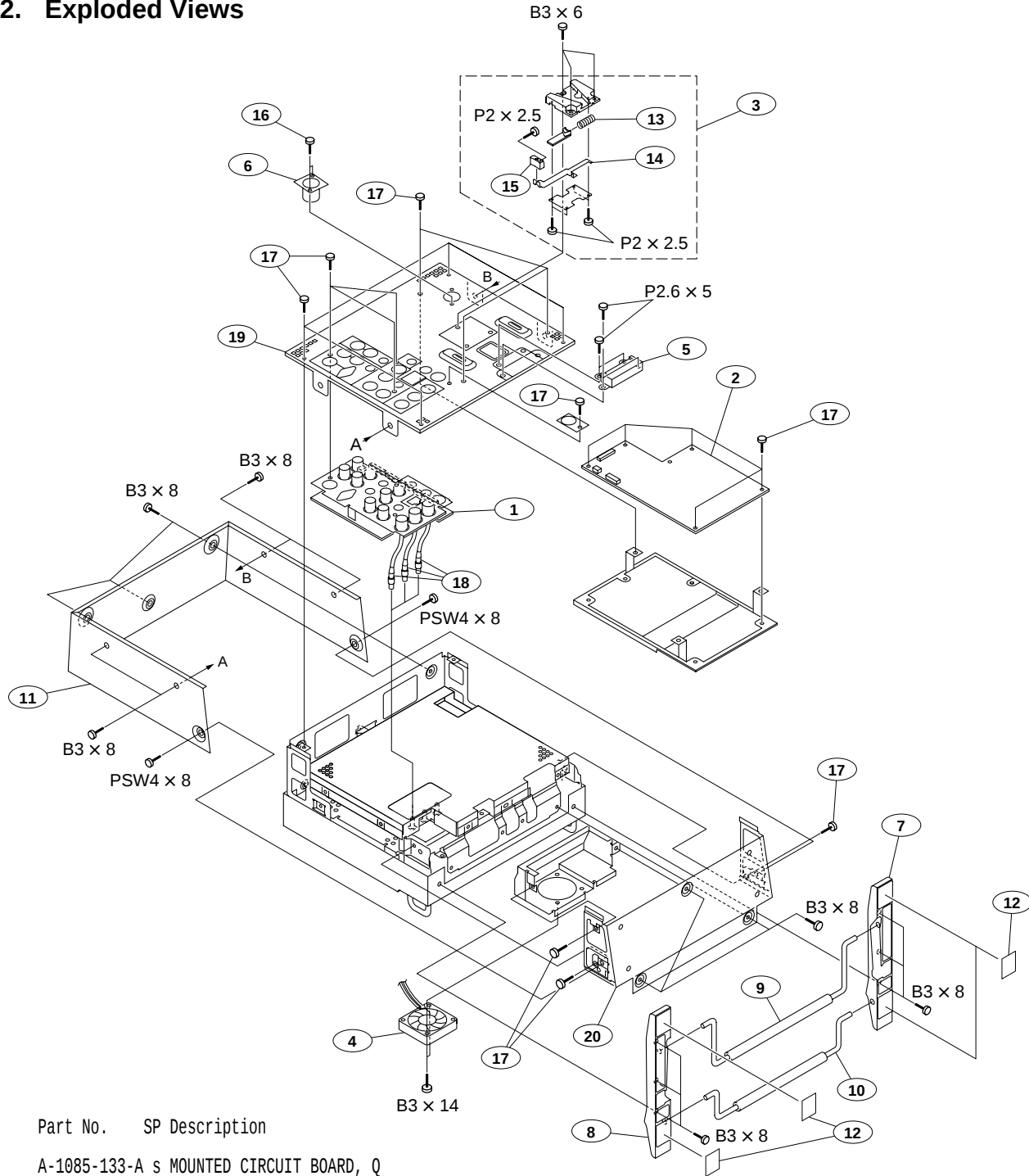
3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

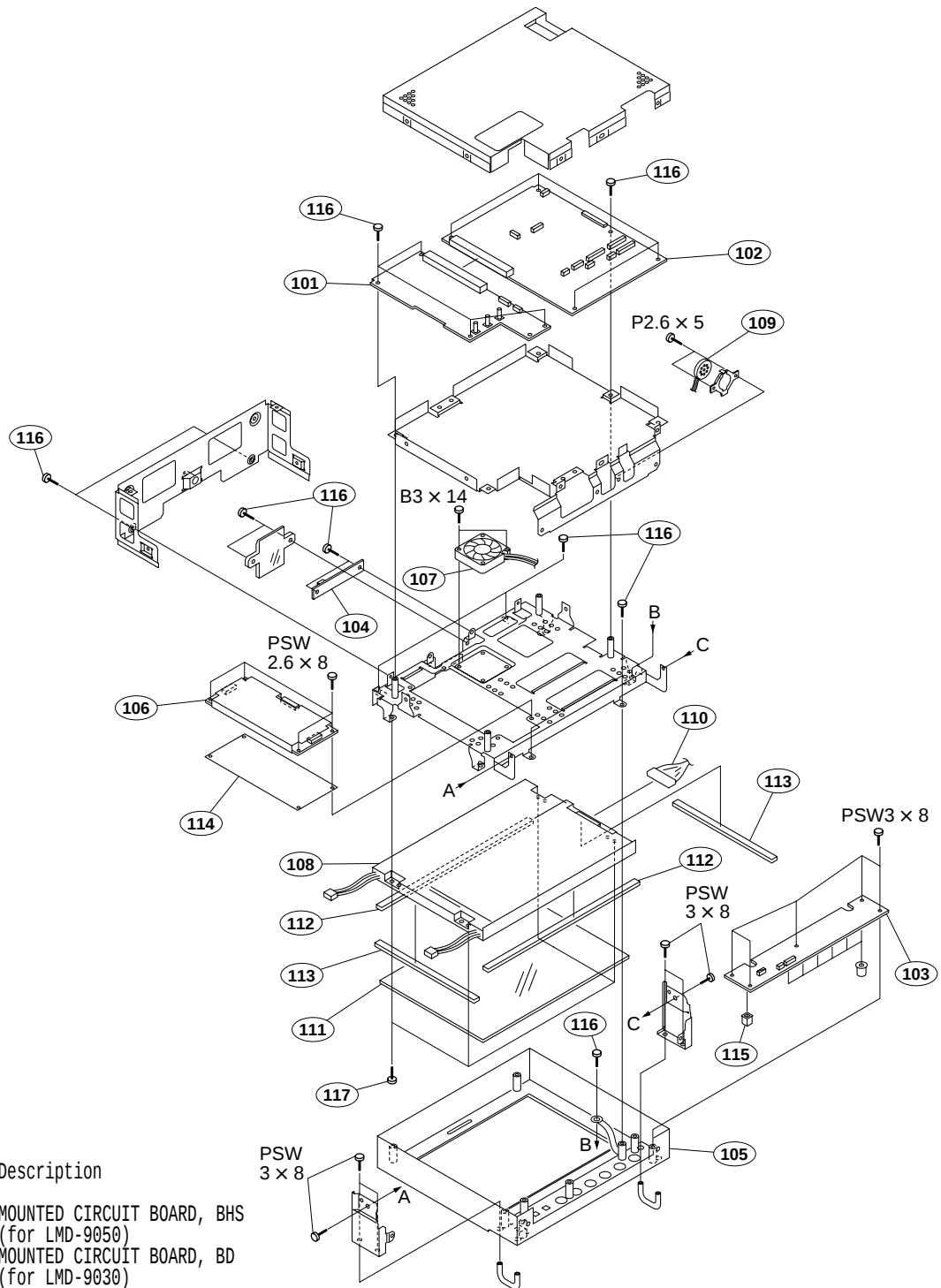
Harnesses with no part number are not registered as spare parts.

5-2. Exploded Views



No.	Part No.	SP Description
1	A-1085-133-A	s MOUNTED CIRCUIT BOARD, Q
2	A-1086-033-A	s MOUNTED CIRCUIT BOARD, G1
3	A-8279-000-B	s MOUNT, V(B) ASSY
4	△ 1-787-378-11	s DC FAN
5	1-910-013-76	s CONNECTOR ASSY, VH 2P
6	1-910-015-40	s CONNECTOR ASSY, XLR
7	2-598-565-01	s FOOT (L)
8	2-598-566-01	s FOOT (R)
9	2-598-650-01	s BAR, STAND (PREVENT SLIDE)
10	2-598-653-01	s BAR, FRONT (PREVENT SLIDE)
11	2-599-709-01	s COVER, TOP
12	2-599-727-01	s FELT
13	3-614-293-01	o SPPRING, COMPRESSION
14	3-614-295-02	s LEVER, RELEASE (B)
15	3-614-298-01	o KNOB, RELEASE LEVER
16	4-035-802-01	s SCREW (RK 2.6X6)
17	4-382-854-01	s SCREW +PSW M3X8 (EP-FE/ZN/CM2)

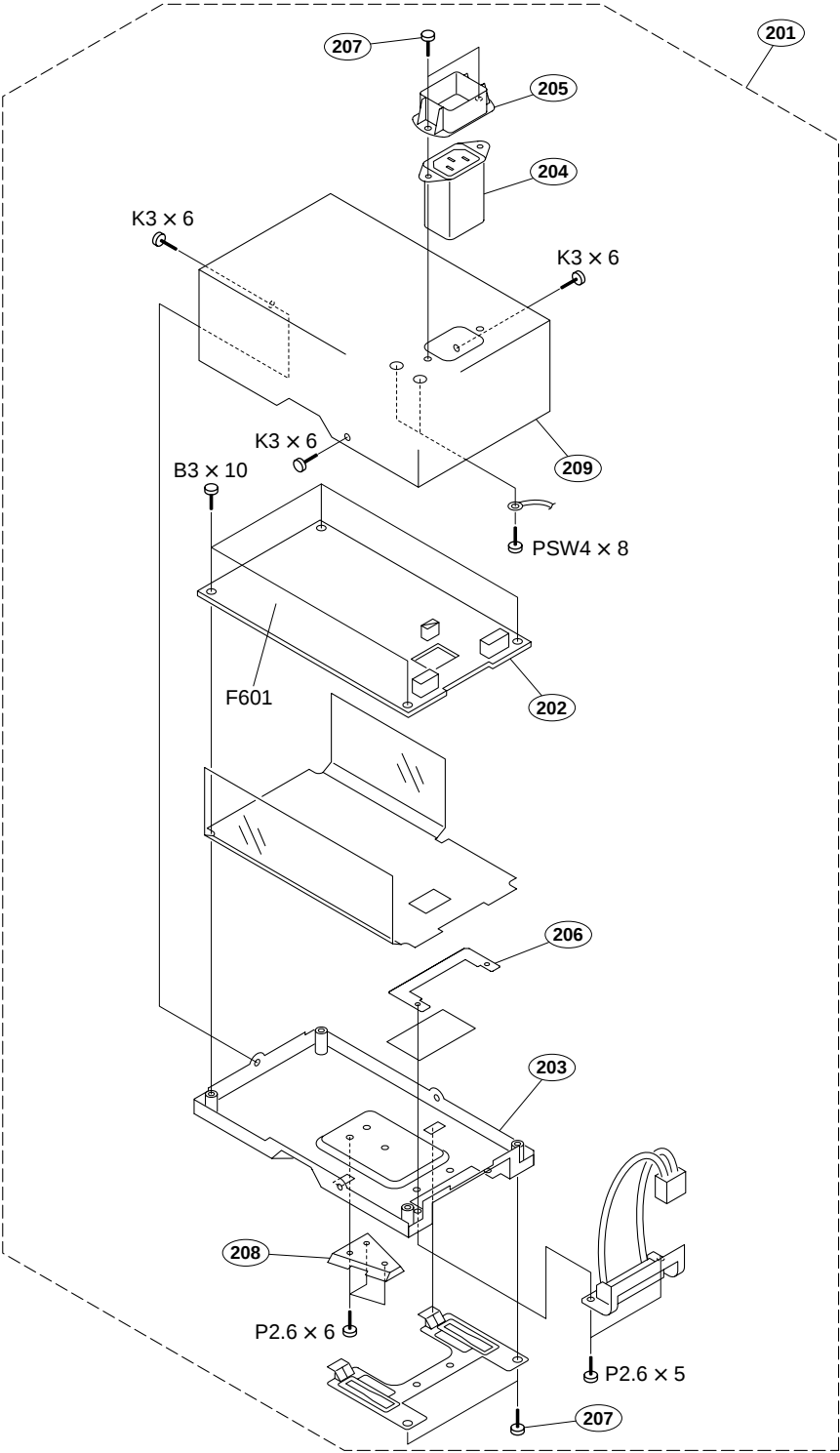
No.	Part No.	SP Description
18	1-830-632-11	s CABLE, COAXIAL (for LMD-9050)
	1-830-632-21	s CABLE, COAXIAL (for LMD-9030)
19	2-599-710-01	s COVER, BACK (for LMD-9050)
	2-599-710-11	s COVER, BACK (for LMD-9020)
	2-599-710-21	s COVER, BACK (for LMD-9030)
20	2-599-713-01	s COVER, BOTTOM
	7-682-547-09	s SCREW +B3X6
	7-627-553-28	s SCREW, PRECISION +P 2X2.5
	7-627-556-58	s SCREW, PRECISION +P2.6X5
	7-682-548-09	s SCREW +B 3X8
	7-682-551-09	s SCREW +B3X14
	7-682-961-09	s SCREW +PSW 4X8 (EP-FE/ZNBK/CM2)



No.	Part No.	SP Description
101	A-1085-131-A	s MOUNTED CIRCUIT BOARD, BHS (for LMD-9050)
	A-1163-023-A	s MOUNTED CIRCUIT BOARD, BD (for LMD-9030)
102	A-1085-132-D	s MOUNTED CIRCUIT BOARD, B (for LMD-9050)
	A-1203-971-A	s MOUNTED CIRCUIT BOARD, B (for LMD-9030)
	A-1163-089-A	s MOUNTED CIRCUIT BOARD, B (for LMD-9020)
103	A-1085-134-A	s MOUNTED CIRCUIT BOARD, H1
104	A-1086-687-A	s MOUNTED CIRCUIT BOARD, X
105	△ X-2055-787-1	s BEZEL ASSY(for LMD-9050)
	△ X-2103-385-1	s BEZEL ASSY(for LMD-9030)
	△ X-2103-382-1	s BEZEL ASSY(for LMD-9020)
106	△ 1-479-017-11	s INVERTER UNIT(for LMD-9050)
	△ 1-789-473-11	s INVERTER UNIT(for LMD-9030/9020)
107	△ 1-787-378-11	s DC FAN
108	△ 1-805-712-13	s LCD MODULE(for LMD-9050)
	△ 1-802-064-11	s LCD MODULE(for LMD-9030/9020)
109	1-825-437-11	o SPEAKER
110	1-910-013-78	s CONNECTOR ASSY, LVDS 20P

No.	Part No.	SP Description
111	2-592-703-01	s PROTECTION
112	2-592-704-01	s CUSHION
113	2-592-704-11	s CUSHION
114	2-635-433-01	s INSULATED PLATE(1)(for LMD-9050)
	2-662-318-01	s INSULATED PLATE(1)(for LMD-9030/9020)
115	2-599-704-01	s BUTTON, POWER
116	4-382-854-01	s SCREW +PSW M3X8(EP-FE/ZN/CM2)
117	2-684-329-01	s SCREW, STOPPER(for LMD-9030/9020)
	7-621-759-60	s SCREW +PSW 2.6X8(EP-FE/ZNBK/CM2)(for LMD-9050)
	7-621-759-60	s SCREW +PSW 2.6X8(EP-FE/ZNBK/CM2)
	7-627-556-58	s SCREW, PRECISION +P2.6X5
	7-682-551-09	s SCREW +B3X14
	7-682-948-09	s SCREW +PSW 3X8

Power Supply Block



No.	Part No.	SP	Description
201	△ A-1157-864-A	s	OVERALL ASSY, POWER UNIT
202	A-1118-142-A	s	MOUNTED CIRCUIT BOARD, G
203	X-4037-169-3	o	CASE (BOTTOM) ASSY, POWER
204	△ 1-251-382-11	s	INLET, AC 3P(WITH NOISE FILTER)
205	2-990-241-02	s	HOLDER (A), PLUG
206	4-072-700-01	s	NUT, PLATE
207	4-382-854-01	s	SCREW +PSW M3X8(EP-FE/ZN/CM2)
208	4-628-904-02	o	SHOE, V
209	X-2103-383-1	o	CASE (TOP) ASSY, POWER
F601	△ 1-576-231-12	s	FUSE(H.B.C)(4A/250V)
	7-621-284-20	s	SCREW +P2.6X6
	7-627-556-58	s	SCREW, PRECISION +P2.6X5
	7-682-247-09	s	SCREW +K 3X6
	7-682-549-09	s	SCREW +B 3X10
	7-682-961-01	s	SCREW +PSW 4X8

Use the following three parts in the combination of X and in the combination of Y respectively.

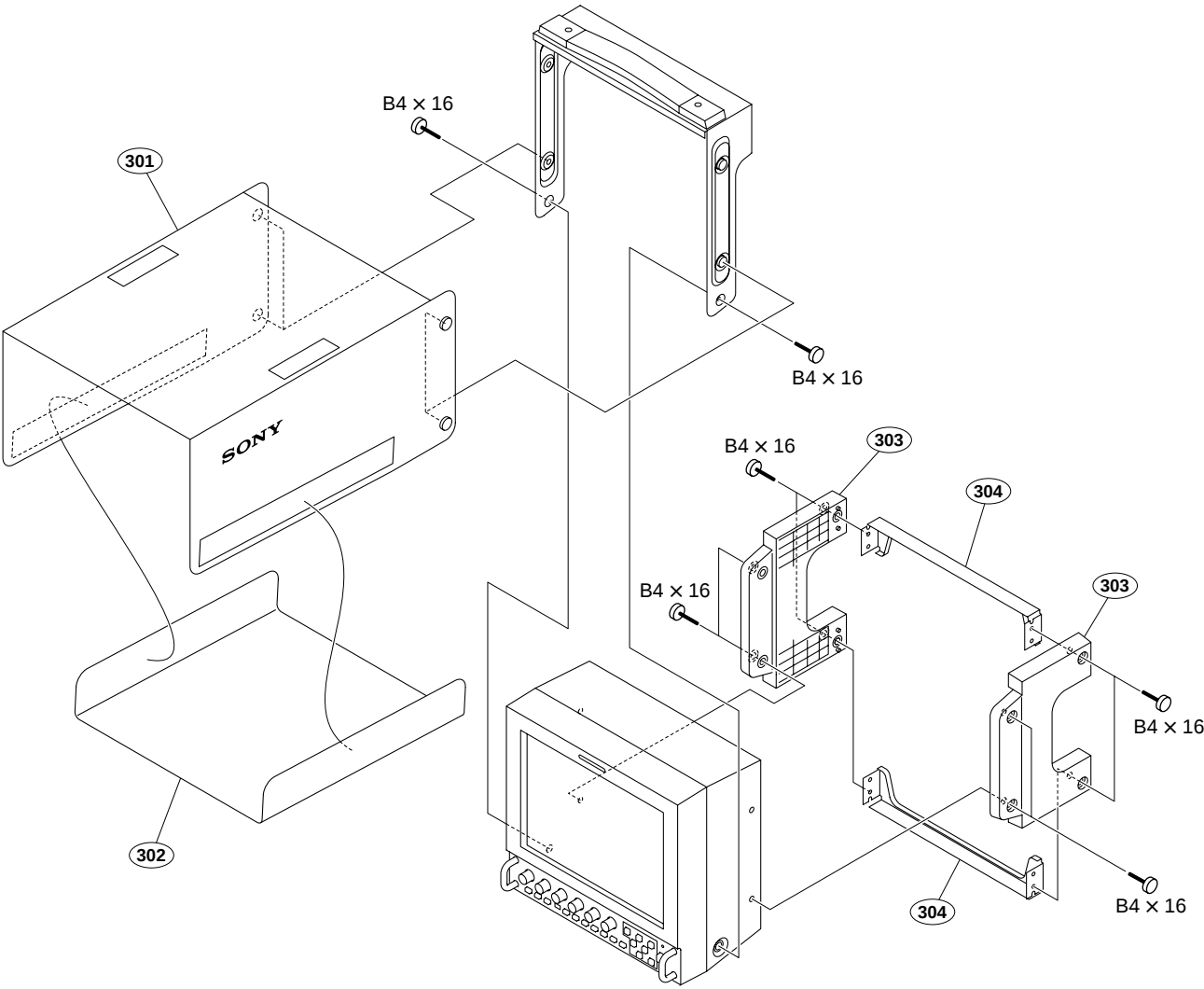
However, as for the service parts of 203, please understand that it is switched to Y parts as soon as X parts run out of stock.

How to distinguish

208 V SHOE (SHOE,V): The length of narrow area of the diagonal line of threaded hole
 13 mm: X
 16 mm: Y

203	X-4037-169-3	o	CASE(BOTTOM) ASSY, POWER: X
	X-2103-384-1	o	CASE(BOTTOM) ASSY, POWER: Y
208	4-628-904-02	o	SHOE,V: X
	3-680-991-01	o	V SHOE: Y
Setscrew	7-682-247-09	s	SCREW +K 3x6: X
	7-621-284-20	s	SCREW +P2.6x6: Y

VF-509



No.	Part No.	SP Description
301	2-597-490-01	s HOOD, TOP
302	2-597-491-01	s HOOD, BOTTOM
303	4-072-831-02	s PROTECTOR
304	4-072-833-01	s STAY, REINFORCEMENT

7-682-565-04 s SCREW +B 4X16

5-3. Electrical Parts List

BD BOARD: for LMD-9030

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1163-023-A	s	MOUNTED CIRCUIT BOARD, BD
C300	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C301	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C302	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C304	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C305	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C306	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C307	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C308	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C309	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C310	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C311	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C312	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C313	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C314	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C315	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C316	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C317	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C318	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C319	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C320	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C321	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C322	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C323	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C324	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C325	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C326	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C327	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C328	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C329	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C330	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C331	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C332	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C333	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C334	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C335	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C336	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C337	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C338	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C339	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C340	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C341	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C342	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C343	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C344	1-125-889-11	s	CAPACITOR, CERAMIC 2.2MF
C345	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C346	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C347	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C348	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C349	1-125-889-11	s	CAPACITOR, CERAMIC 2.2MF
C350	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C351	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C352	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C353	1-100-026-11	s	CAPACITOR, ELECT 220MF(8X6.9)
C354	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C355	1-100-026-11	s	CAPACITOR, ELECT 220MF(8X6.9)
C356	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C400	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
C401	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C402	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C403	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C404	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C405	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C406	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C407	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C408	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C409	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C411	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C413	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C414	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C415	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C416	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C417	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C418	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C419	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C420	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C421	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C422	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C423	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C425	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C426	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C427	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C428	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C429	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C431	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C432	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C433	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C434	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C435	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C436	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C437	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C438	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C439	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C440	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C441	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C442	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C443	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C444	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C445	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C446	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C447	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C448	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C449	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C450	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C451	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C452	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C453	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C454	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C455	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C456	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C458	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C459	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C460	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C461	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C462	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C463	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C464	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
C465	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C466	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C551	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C552	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C553	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C554	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C555	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C556	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C557	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C559	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C560	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C561	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3
C562	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C563	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C564	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C565	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C566	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C567	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C568	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN300	1-816-307-11	o	CONNECTOR, COAXIAL
CN301	1-816-307-11	o	CONNECTOR, COAXIAL
CN302	1-816-307-11	o	CONNECTOR, COAXIAL
CN400	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN551	1-691-550-11	s	PIN,CONNECTOR (3P)(SMD)(1.5MM)
D300	8-719-016-74	s	DIODE 1SS352
D400	8-719-016-74	s	DIODE 1SS352
D401	8-719-016-74	s	DIODE 1SS352
D402	8-719-016-74	s	DIODE 1SS352
D403	8-719-016-74	s	DIODE 1SS352
FB300	1-469-379-11	s	FERRITE, EMI (SMD)
FB301	1-469-379-11	s	FERRITE, EMI (SMD)
FB302	1-469-379-11	s	FERRITE, EMI (SMD)
FB303	1-469-379-11	s	FERRITE, EMI (SMD)
FB400	1-469-379-11	s	FERRITE, EMI (SMD)
FB551	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB552	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
FB553	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
FL500	1-234-493-21	s	FILTER, EMI
FL501	1-234-493-21	s	FILTER, EMI
FL502	1-234-493-21	s	FILTER, EMI
FL503	1-234-493-21	s	FILTER, EMI
FL504	1-234-493-21	s	FILTER, EMI
FL505	1-234-493-21	s	FILTER, EMI
FL506	1-234-493-21	s	FILTER, EMI
FL507	1-234-493-21	s	FILTER, EMI
FL508	1-234-493-21	s	FILTER, EMI
IC300	6-708-748-01	s	IC BD4828FVE-TR
IC301	8-752-080-61	s	IC CXB1340N
IC302	8-752-078-34	s	IC CXB1342R
IC303	8-759-460-72	s	IC BA033FP
IC400	8-759-460-72	s	IC BA033FP
IC401	6-700-394-01	s	IC BA25BC0FP-TE2
IC404	8-759-549-06	s	IC SN74LV14APWR
IC405	8-759-669-78	s	IC TLC2933IPWR-12
IC406	6-705-027-01	s	IC BD4840FVE-TR
IC407	8-759-392-92	s	IC AT24C32N-10SI-1.8-TR
IC551	6-703-068-01	s	IC AK4380VT-E2
IC552	8-759-331-71	s	IC NJM4558E (TE2)

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Ref. No. or Q'ty	Part No.	SP	Description
IC555	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC556	6-706-493-01	s	IC TC7SET04F(T5RSOVJF)
L300	1-414-453-21	s	INDUCTOR, CHIP (S) 1.5NH
L301	1-414-466-11	s	INDUCTOR, CHIP (K) 18NH
L302	1-414-468-11	s	INDUCTOR, CHIP (K) (27NH)
L303	1-414-464-31	s	INDUCTOR, CHIP (J) 12NH
L304	1-414-467-31	s	INDUCTOR, CHIP (J) 22NH
L305	1-416-345-11	s	COIL, CHOKE 22UH
L306	1-416-345-11	s	COIL, CHOKE 22UH
PS500	△ 1-576-124-11	s	LINK IC 1A/72V (3225)
PS501	△ 1-576-124-11	s	LINK IC 1A/72V (3225)
Q300	8-729-028-81	s	TRANSISTOR DTA123JUA-T106
Q301	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q302	8-729-026-53	s	TRANSISTOR 2SA1576A-T106-QR
Q303	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q400	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q551	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q552	8-729-027-38	s	TRANSISTOR DTA144EKA-T146
R300	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R301	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R302	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R303	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R304	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/10W 1608
R305	1-216-804-11	s	RESISTOR,CHIP 39 1/10W 1608
R306	1-216-842-11	s	RESISTOR,CHIP 56K 1/16W(1608)
R307	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R308	1-218-285-11	s	RESISTOR,CHIP 75 1/16W (1608)
R309	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R310	1-216-804-11	s	RESISTOR,CHIP 39 1/10W 1608
R311	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R312	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R313	1-218-899-11	s	RESISTOR,CHIP 150K 1/10W(1608)
R314	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R315	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R316	1-218-824-11	s	RESISTOR,CHIP 110 1/10W (1608)
R317	1-218-835-11	s	RESISTOR,CHIP 330 1/10W (1608)
R318	1-218-835-11	s	RESISTOR,CHIP 330 1/10W (1608)
R319	1-216-832-11	s	RESISTOR,CHIP 8.2K 1/16W 1608
R320	1-216-814-11	s	RESISTOR,CHIP 270 1/10W 1608
R321	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/10W(1608)
R322	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/10W(1608)
R323	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/10W(1608)
R324	1-218-847-11	s	RESISTOR, CHIP 1K 1/10W (1608)
R325	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R326	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R327	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R328	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R329	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R330	1-211-991-11	s	RESISTOR,CHIP 82 1/10W (1608)
R331	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R332	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
R333	1-211-979-11	s	RESISTOR,CHIP 27 1/10W (1608)
R334	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R335	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
R336	1-216-808-11	s	RESISTOR,CHIP 82 1/10W 1608
R337	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R338	1-218-857-11	s	RESISTOR,CHIP 2.7K 1/10W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R339	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R344	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R401	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R402	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R403	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R404	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R405	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R406	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R407	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R408	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R410	1-216-817-11	s	RESISTOR,CHIP 470 1/10W 1608
R411	1-216-815-11	s	RESISTOR,CHIP 330 1/10W 1608
R412	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R414	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R418	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R420	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R422	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R423	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R426	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R427	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R430	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R431	1-216-801-11	s	RESISTOR,CHIP 22 1/10W (1608)
R437	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R438	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R440	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R444	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R447	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R448	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R449	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/10W(1608)
R450	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R451	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R452	1-216-797-11	s	RESISTOR,CHIP 10 1/10W 1608
R453	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R454	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R455	1-218-855-11	s	RESISTOR,CHIP 2.2K 1/10W(1608)
R456	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R457	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R458	1-218-877-11	s	RESISTOR,CHIP 18K 1/10W (1608)
R459	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R460	1-216-862-11	s	RESISTOR,CHIP 2.7M 1/16W 1608
R463	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R464	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R466	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R467	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R474	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R475	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R476	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R477	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R478	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R479	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R480	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R481	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R522	1-216-839-11	s	RESISTOR,CHIP 33K 1/10W 1608
R523	1-216-801-11	s	RESISTOR,CHIP 22 1/10W (1608)
R524	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R551	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R553	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R555	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R556	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R558	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R559	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R560	1-218-865-11	s	RESISTOR,CHIP 5.6K 1/10W(1608)
R561	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R562	1-218-871-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R563	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/10W 1608
R565	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R566	1-216-837-11	s	RESISTOR,CHIP 22K 1/10W 1608
R567	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R568	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R569	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R570	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R579	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R581	1-218-913-91	s	RESISTOR,CHIP 560K 1/10W(1608)
RB300	1-234-371-11	s	RES, NETWORK 47X4 (1005)
RB301	1-234-371-11	s	RES, NETWORK 47X4 (1005)
RB302	1-234-371-11	s	RES, NETWORK 47X4 (1005)
RB400	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB401	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB402	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB403	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB404	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB405	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB406	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB407	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB408	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB409	1-234-706-21	s	RESISTOR, NETWORK 39X4(1005)
RB412	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RB413	1-234-370-11	s	RES, NETWORK 22X4 (1005)
RV300	1-225-791-21	s	RES, ADJ, CERMET 5K
TP300	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
TP301	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
TP302	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
TP400	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
TP401	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
TP500	1-535-877-22	s	CHIP,CHECKER (TEST POINT)

BHS BOARD: for LMD-9050

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1085-131-A	s	MOUNTED CIRCUIT BOARD, BHS
C300	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C301	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C302	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C303	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C304	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C305	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C306	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C307	1-126-412-11	s	CAPACITOR, ELECT 220MF/4V(CHIP)
C308	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C309	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C310	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C311	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C312	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C313	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C314	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C315	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C316	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C317	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C318	1-107-494-11	s	CAPACITOR, CHIP CERAMIC 0.5PF
C319	1-107-494-11	s	CAPACITOR, CHIP CERAMIC 0.5PF
C320	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C321	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C322	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C323	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C324	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C325	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C326	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C327	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C328	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C329	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C330	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C331	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C332	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C333	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C334	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C335	1-127-760-11	s	CAPACITOR, CERAMIC 4.7MF/6.3V
C336	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C337	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C338	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C339	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C340	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C341	1-162-966-11	s	CAPACITOR, CERAMIC 2200PF/50V B
C342	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C343	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C344	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C345	1-165-908-11	s	CAP, CERAMIC 1MF B 1608
C346	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C347	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C348	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C349	1-125-837-91	s	CAPACITOR, CHIP CERAMIC1MF/6.3V
C350	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C351	1-125-837-91	s	CAPACITOR, CHIP CERAMIC1MF/6.3V
C352	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C353	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C354	1-125-837-91	s	CAPACITOR, CHIP CERAMIC1MF/6.3V
C355	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C356	1-125-837-91	s	CAPACITOR, CHIP CERAMIC1MF/6.3V

(BHS BOARD: for LMD-9050)

Ref. No. or Q'ty	Part No.	SP	Description
C357	1-125-837-91	s	CAPACITOR, CHIP CERAMIC1MF/6.3V
C400	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C401	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C402	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C403	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C404	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C405	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C406	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C407	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C408	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C409	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C410	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C411	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C412	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C413	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C414	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C415	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C416	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C417	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C418	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C419	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C420	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C421	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C423	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C424	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C425	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C426	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C427	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C429	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C430	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C431	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C432	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C433	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C435	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C436	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C437	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C438	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C439	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C440	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C441	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C442	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C443	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C444	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C445	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C446	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C447	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C448	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C449	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C450	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C451	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C452	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C453	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C456	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C457	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C458	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C459	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C460	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C461	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C462	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)

(BHS BOARD: for LMD-9050)

Ref. No. or Q'ty	Part No.	SP	Description
C463	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C551	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C552	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C553	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C554	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C555	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C556	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C557	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C559	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C560	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C561	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3
C562	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C563	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C564	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C565	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C566	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C567	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C568	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN300	1-816-307-11	o	CONNECTOR, COAXIAL
CN301	1-816-307-11	o	CONNECTOR, COAXIAL
CN302	1-816-307-11	o	CONNECTOR, COAXIAL
CN400	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN551	1-691-550-11	s	PIN,CONNECTOR (3P)(SMD)(1.5MM)
D300	8-719-016-74	s	DIODE 1SS352
D301	8-719-016-74	s	DIODE 1SS352
D302	8-719-016-74	s	DIODE 1SS352
D303	8-719-016-74	s	DIODE 1SS352
D400	8-719-016-74	s	DIODE 1SS352
D401	8-719-016-74	s	DIODE 1SS352
D402	8-719-016-74	s	DIODE 1SS352
D403	8-719-016-74	s	DIODE 1SS352
FB300	1-469-379-11	s	FERRITE, EMI (SMD)
FB301	1-469-379-11	s	FERRITE, EMI (SMD)
FB302	1-469-379-11	s	FERRITE, EMI (SMD)
FB303	1-469-379-11	s	FERRITE, EMI (SMD)
FB400	1-469-379-11	s	FERRITE, EMI (SMD)
FB551	1-414-864-11	s	INDUCTOR, MICRO (CHIP TYPE)
FB552	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
FB553	1-211-977-11	s	RESISTOR,CHIP 22 1/10W (1608)
FL500	1-234-493-21	s	FILTER, EMI
FL501	1-234-493-21	s	FILTER, EMI
FL502	1-234-493-21	s	FILTER, EMI
FL503	1-234-493-21	s	FILTER, EMI
FL504	1-234-493-21	s	FILTER, EMI
FL505	1-234-493-21	s	FILTER, EMI
FL506	1-234-493-21	s	FILTER, EMI
FL507	1-234-493-21	s	FILTER, EMI
FL508	1-234-493-21	s	FILTER, EMI
FL509	1-234-493-21	s	FILTER, EMI
FL510	1-234-493-21	s	FILTER, EMI
IC300	8-759-460-72	s	IC BA033FP
IC301	8-759-832-05	s	IC BA18BC0FP-E2
IC302	6-702-620-01	s	IC GS1524-CKDE3
IC303	6-708-295-01	s	IC GS-1559-CBE2
IC400	8-759-460-72	s	IC BA033FP
IC401	6-700-394-01	s	IC BA25BC0FP-TE2
IC402	6-704-718-01	s	IC XC18V02VQG44C

(BHS BOARD: for LMD-9050)

Ref. No. or Q'ty	Part No.	SP	Description
IC404	8-759-549-06	s	IC SN74LV14APWR
IC405	8-759-669-78	s	IC TLC2933IPWR-12
IC406	6-705-027-01	s	IC BD4840FVE-TR
IC551	6-703-068-01	s	IC AK4380VT-E2
IC552	8-759-331-71	s	IC NJM4558E (TE2)
IC555	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC556	6-706-493-01	s	IC TC7SET04F(T5RSOYJF)
L300	1-414-461-31	s	INDUCTOR, CHIP (K) 6.8NH
L301	1-414-463-41	s	INDUCTOR, CHIP (J) 10NH
L302	1-414-463-41	s	INDUCTOR, CHIP (J) 10NH
PS500	△ 1-576-124-11	s	LINK IC 1A/72V (3225)
PS501	△ 1-576-124-11	s	LINK IC 1A/72V (3225)
Q300	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q400	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q551	8-729-905-35	s	TRANSISTOR 2SC4081-R
Q552	8-729-027-38	s	TRANSISTOR DTA144EKA-T146
R300	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R301	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R302	1-216-793-11	s	RESISTOR,CHIP 4.7 1/10W 1608
R303	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R304	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R305	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R306	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R307	1-211-983-11	s	RESISTOR,CHIP 39 1/10W (1608)
R308	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R309	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R310	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R311	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R312	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R313	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R314	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R315	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R318	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R319	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R320	1-218-833-11	s	RESISTOR,CHIP 270 1/10W (1608)
R321	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R322	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R323	1-218-863-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R324	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R325	1-218-863-11	s	RESISTOR,CHIP 4.7K 1/10W(1608)
R326	1-218-885-11	s	RESISTOR,CHIP 39K 1/10W (1608)
R327	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R331	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R333	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R334	1-216-805-11	s	RESISTOR,CHIP 47 1/10W 1608
R400	1-216-833-11	s	RESISTOR,CHIP 10K 1/10W (1608)
R402	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R403	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R404	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R405	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608
R406	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R407	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R408	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R410	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R411	1-216-815-11	s	RESISTOR,CHIP 330 1/10W 1608
R412	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R414	1-216-809-11	s	RESISTOR,CHIP 100 1/10W 1608

(BHS BOARD: for LMD-9050)

Ref. No. or Q'ty	Part No.	SP Description
R415	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R416	1-216-864-11	s CONDUCTOR, CHIP (1608)
R418	1-216-864-11	s CONDUCTOR, CHIP (1608)
R420	1-216-864-11	s CONDUCTOR, CHIP (1608)
R421	1-216-864-11	s CONDUCTOR, CHIP (1608)
R424	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R425	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R426	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R427	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R428	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R429	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R433	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R434	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R435	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R436	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R437	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R438	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R440	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R445	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R446	1-216-864-11	s CONDUCTOR, CHIP (1608)
R448	1-216-864-11	s CONDUCTOR, CHIP (1608)
R449	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R450	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R452	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R453	1-216-864-11	s CONDUCTOR, CHIP (1608)
R454	1-216-864-11	s CONDUCTOR, CHIP (1608)
R455	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R456	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R457	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R458	1-216-864-11	s CONDUCTOR, CHIP (1608)
R459	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R461	1-216-864-11	s CONDUCTOR, CHIP (1608)
R462	1-216-864-11	s CONDUCTOR, CHIP (1608)
R463	1-218-855-11	s RESISTOR,CHIP 2.2K 1/10W(1608)
R464	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R465	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R466	1-218-877-11	s RESISTOR,CHIP 18K 1/10W (1608)
R467	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R468	1-216-862-11	s RESISTOR,CHIP 2.7M 1/16W 1608
R470	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R473	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R474	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R475	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R476	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R477	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R478	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R522	1-216-839-11	s RESISTOR,CHIP 33K 1/10W 1608
R523	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R524	1-216-864-11	s CONDUCTOR, CHIP (1608)
R551	1-216-864-11	s CONDUCTOR, CHIP (1608)
R553	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R555	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R556	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R558	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R559	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R560	1-218-865-11	s RESISTOR,CHIP 5.6K 1/10W(1608)
R561	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R562	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R563	1-216-827-11	s RESISTOR, CHIP 3.3K 1/10W 1608

(BHS BOARD: for LMD-9050)

Ref. No. or Q'ty	Part No.	SP Description
R564	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R565	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R566	1-216-837-11	s RESISTOR,CHIP 22K 1/10W 1608
R567	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R568	1-216-864-11	s CONDUCTOR, CHIP (1608)
R569	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R570	1-216-864-11	s CONDUCTOR, CHIP (1608)
R571	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R572	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R573	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R574	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R575	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R576	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R577	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R578	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R579	1-216-864-11	s CONDUCTOR, CHIP (1608)
R580	1-216-801-11	s RESISTOR,CHIP 22 1/10W (1608)
R581	1-218-913-91	s RESISTOR,CHIP 560K 1/10W(1608)
RB300	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB301	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB302	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB303	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB304	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB305	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB400	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB401	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB402	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB403	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB404	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB405	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB406	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB407	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB408	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB409	1-234-706-21	s RESISTOR, NETWORK 39X4(1005)
RB410	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB411	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB412	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB413	1-234-370-11	s RES, NETWORK 22X4 (1005)
RY300	△ 1-755-510-11	s RELAY
TP300	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP500	1-535-877-22	s CHIP,CHECKER (TEST POINT)
X300	1-795-872-11	s OSCILLATOR

G1 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1086-033-A	s	MOUNTED CIRCUIT BOARD, G1
C200	1-100-552-21	s	CAPACITOR, ELECT 10MF
C203	1-126-193-11	s	CAPACITOR,ELECT 1MF/50V (CHIP)
C204	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C205	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C206	1-165-629-11	s	CAPACITOR,CERAMIC 1MF B
C207	1-137-805-31	s	CAP, ELECT 330MF
C208	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C209	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C210	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C215	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C220	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C221	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C222	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C223	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C224	1-125-889-11	s	CAPACITOR, CERAMIC 2.2MF
C225	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C226	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C227	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C228	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C229	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C230	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C231	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C232	1-137-894-21	s	CAPACITOR,ELECT(CHIP TYPE) 470
C233	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C234	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C235	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C236	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C237	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C238	1-137-894-21	s	CAPACITOR,ELECT(CHIP TYPE) 470
C239	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C240	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C241	1-128-954-11	s	CAP, ELECT 1000MF
C242	1-165-670-21	s	CAP, ELECT 330MF
C243	1-165-670-21	s	CAP, ELECT 330MF
C244	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C245	1-137-894-21	s	CAPACITOR,ELECT(CHIP TYPE) 470
C246	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C247	1-165-670-21	s	CAP, ELECT 330MF
C248	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C249	1-100-631-21	s	CAP, ELECT 82MF (10X7.7)
C250	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C251	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C252	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C254	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C260	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C261	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C262	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C263	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C264	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C265	1-125-889-11	s	CAPACITOR, CERAMIC 2.2MF
C266	1-100-756-91	s	CAP,CHIPCERAMIC 47000PF B 1608
C267	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C268	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C269	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C270	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C271	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C272	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216

(G1 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C273	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C274	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C275	1-137-894-21	s	CAPACITOR,ELECT(CHIP TYPE) 470
C276	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C277	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C278	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C279	1-165-670-21	s	CAP, ELECT 270MF
C280	1-165-670-21	s	CAP, ELECT 270MF
C281	1-165-670-21	s	CAP, ELECT 270MF
C282	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C283	1-165-670-21	s	CAP, ELECT 330MF
C284	1-165-670-21	s	CAP, ELECT 330MF
C285	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C286	1-107-877-11	s	CAPACITOR, ELECT 1000MF/10V
C287	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C288	1-165-670-21	s	CAP, ELECT 330MF
C289	1-125-827-11	s	CAPACITOR,CERAMIC 1MF/25V
C290	1-128-992-11	s	CAPACITOR ELECT 47MF 25V
C291	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C292	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C293	1-107-884-11	s	CAPACITOR,ELECT 1000MF/16V
C294	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
CN200	1-764-088-11	o	PIN, CONNECTOR (PC BOARD) 3P
CN210	1-691-756-11	o	PIN, CONNECTOR(PC BOARD) 2P
CN220	1-691-756-11	o	PIN, CONNECTOR(PC BOARD) 2P
CN230	1-794-848-21	o	CONNECTOR,BOARD TO CABLE(4 PIN
CN240	1-764-099-11	s	PIN, CONNECTOR (PC BOARD) 14P
CN250	1-764-095-11	o	PIN, CONNECTOR (PC BOARD) 10P
D201	8-719-057-08	s	DIODE PTZ-TE25-27A
D202	8-719-081-34	s	DIODE RB160M-30TR
D203	8-719-404-50	s	DIODE MA111-TX
D204	8-719-404-50	s	DIODE MA111-TX
D205	8-719-404-50	s	DIODE MA111-TX
D206	8-719-404-50	s	DIODE MA111-TX
D220	8-719-078-02	s	DIODE 1SS357(T3SONY1)
D221	8-719-078-02	s	DIODE 1SS357(T3SONY1)
D222	8-719-073-92	s	DIODE RB060L-40TE25
D223	8-719-073-92	s	DIODE RB060L-40TE25
D224	8-719-080-41	s	DIODE RB063L-30TE25
D225	8-719-073-92	s	DIODE RB060L-40TE25
D226	8-719-080-41	s	DIODE RB063L-30TE25
D227	6-500-354-01	s	DIODE PTZ-TE25-3.6
D259	6-500-294-01	s	DIODE PTZ-TE25-3.9B
D260	8-719-078-02	s	DIODE 1SS357(T3SONY1)
D261	8-719-078-02	s	DIODE 1SS357(T3SONY1)
D262	8-719-073-92	s	DIODE RB060L-40TE25
D263	8-719-073-92	s	DIODE RB060L-40TE25
D264	8-719-080-41	s	DIODE RB063L-30TE25
D265	8-719-073-69	s	DIODE PTZ-TE25-6.2A
F200	△ 1-576-231-11	s	FUSE(H.B.C)(4A/250V)
F201	△ 1-576-819-11	s	FUSE (SMD/FAST ACTING)(10A/250V)
F202	△ 1-576-819-11	s	FUSE (SMD/FAST ACTING)(10A/250V)
F220	△ 1-576-819-11	s	FUSE (SMD/FAST ACTING)(10A/250V)
F260	△ 1-576-818-11	s	FUSE (SMD/FAST ACTING)(8A/125V)
F261	△ 1-576-819-11	s	FUSE (SMD/FAST ACTING)(10A/250V)
F262	△ 1-576-819-11	s	FUSE (SMD/FAST ACTING)(10A/250V)

(G1 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
FB200	1-414-581-21	s INDUCTOR, CHIP
FB201	1-414-581-21	s INDUCTOR, CHIP
FB202	1-414-581-21	s INDUCTOR, CHIP
FB203	1-414-581-21	s INDUCTOR, CHIP
FB204	1-216-864-11	s CONDUCTOR, CHIP (1608)
FB220	1-414-581-21	s INDUCTOR, CHIP
FB221	1-414-581-21	s INDUCTOR, CHIP
FH200	1-533-223-11	s CLIP, FUSE
FH201	1-533-223-11	s CLIP, FUSE
IC200	8-759-700-07	s IC NJM2903M
IC201	8-759-183-53	s IC TL431CPK-E2
IC220	6-702-510-01	s IC TPS5120DBTR
IC221	8-759-700-07	s IC NJM2903M
IC260	6-702-510-01	s IC TPS5120DBTR
IC261	6-704-407-01	s IC PQ1CZ41H2ZPH
L220	1-400-589-11	s INDUCTOR 10UH
L221	1-469-848-21	s INDUCTOR (SMD)
L222	1-400-589-11	s INDUCTOR 10UH
L224	1-469-848-21	s INDUCTOR (SMD)
L260	1-414-617-11	s INDUCTOR (POWER) 10UH
L261	1-414-617-11	s INDUCTOR (POWER) 10UH
L262	1-406-978-11	s COIL, CHOKE 150UH
L263	1-406-975-21	s COIL, CHOKE 47UH
L264	1-469-848-21	s INDUCTOR (SMD)
L265	1-469-848-21	s INDUCTOR (SMD)
L266	1-456-066-21	s COIL, CHOKE 220UH
Q200	8-729-027-43	s TRANSISTOR DTC114EKA-T146
Q201	8-729-027-55	s TRANSISTOR DTC143EKA-T146
Q221	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q223	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q224	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q225	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q226	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q227	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q260	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q261	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q262	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q263	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q264	8-729-052-07	s TRANSISTOR HAT2064R-EL
Q265	8-729-052-07	s TRANSISTOR HAT2064R-EL
R200	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R201	1-218-883-11	s RESISTOR,CHIP 33K 1/10W (1608)
R203	1-218-864-11	s RESISTOR,CHIP 5.1K 1/10W(1608)
R204	1-218-847-11	s RESISTOR, CHIP 1K 1/10W (1608)
R206	1-218-875-11	s RESISTOR,CHIP 15K 1/10W (1608)
R207	1-218-895-11	s RESISTOR,CHIP 100K 1/10W(1608)
R208	1-218-865-11	s RESISTOR,CHIP 5.6K 1/10W(1608)
R209	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R210	1-216-839-11	s RESISTOR,CHIP 33K 1/10W 1608
R211	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R212	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R213	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R214	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R215	1-218-879-11	s RESISTOR,CHIP 22K 1/10W (1608)
R216	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R220	1-218-705-11	s RESISTOR,CHIP 3.6K 1/16W(1608)

(G1 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R221	1-218-738-11	s RESISTOR,CHIP 82K 1/16W(1608)
R222	1-218-873-11	s RESISTOR,CHIP 12K 1/10W (1608)
R223	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R224	1-218-887-11	s RESISTOR,CHIP 47K 1/10W (1608)
R225	1-218-868-11	s RESISTOR,CHIP 7.5K 1/10W(1608)
R226	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R227	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R228	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R229	1-218-722-11	s RESISTOR, CHIP 18K 1/16W 1608
R230	1-216-793-11	s RESISTOR,CHIP 4.7 1/10W 1608
R231	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R232	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R233	1-216-793-11	s RESISTOR,CHIP 4.7 1/10W 1608
R235	1-216-795-11	s RESISTOR,CHIP 6.8 1/10W(1608)
R236	1-218-863-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R237	1-218-873-11	s RESISTOR,CHIP 12K 1/10W (1608)
R238	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R239	1-216-851-11	s RESISTOR,CHIP 330K 1/16W 1608
R240	1-216-826-11	s RESISTOR,CHIP 2.7K 1/10W(1608)
R241	1-218-859-11	s RESISTOR,CHIP 3.3K 1/10W(1608)
R242	1-218-859-11	s RESISTOR,CHIP 3.3K 1/10W(1608)
R243	1-218-859-11	s RESISTOR,CHIP 3.3K 1/10W(1608)
R260	1-218-867-11	s RESISTOR,CHIP 6.8K 1/10W(1608)
R261	1-218-900-11	s RESISTOR,CHIP 160K 1/10W(1608)
R262	1-218-868-11	s RESISTOR,CHIP 7.5K 1/10W(1608)
R263	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R264	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R265	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R266	1-218-873-11	s RESISTOR,CHIP 12K 1/10W (1608)
R267	1-218-872-11	s RESISTOR,CHIP 11K 1/10W (1608)
R268	1-218-728-11	s RESISTOR,CHIP 33K 1/16W
R269	1-218-884-11	s RESISTOR,CHIP 36K 1/10W (1608)
R270	1-216-793-11	s RESISTOR,CHIP 4.7 1/10W 1608
R271	1-216-793-11	s RESISTOR,CHIP 4.7 1/10W 1608
R272	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R273	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R275	1-216-864-11	s CONDUCTOR, CHIP (1608)
R276	1-216-864-11	s CONDUCTOR, CHIP (1608)
R277	1-216-864-11	s CONDUCTOR, CHIP (1608)
R278	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R279	1-216-849-11	s RESISTOR,CHIP 220K 1/16W 1608
R280	1-218-861-11	s RESISTOR,CHIP 3.9K 1/10W(1608)
R281	1-218-850-11	s RESISTOR,CHIP 1.3K 1/10W(1608)
RY200	△ 1-755-361-11	s RELAY, POWER (DEFLECTION SELEC
TP220	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP221	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP260	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP261	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP262	1-535-877-22	s CHIP,CHECKER (TEST POINT)
TP263	1-535-877-22	s CHIP,CHECKER (TEST POINT)

H1 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1085-134-A	s	MOUNTED CIRCUIT BOARD, H1
C100	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
C101	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
C102	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C103	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C104	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C105	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C106	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C107	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C108	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
C109	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C110	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C111	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C112	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C113	1-100-597-91	s	CAPACITOR, CHIP 0.1MF B 1608
C114	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
C115	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C120	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C121	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C122	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C123	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C124	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C125	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C126	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C127	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C128	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C129	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C130	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C131	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C132	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C133	1-100-566-91	s	CAPACITOR CERAMIC0.1MF B1608
C134	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C135	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C136	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
C137	1-100-880-91	s	CAPACITOR CERAMIC100MF C(3225)
CN100	1-695-207-11	o	PIN, CONNECTOR 6P
CN101	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN102	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
D101	8-719-157-94	s	DIODE RD3.3SB
D102	8-719-157-94	s	DIODE RD3.3SB
D103	8-719-157-94	s	DIODE RD3.3SB
D104	8-719-157-94	s	DIODE RD3.3SB
D105	8-719-157-94	s	DIODE RD3.3SB
D106	8-719-157-94	s	DIODE RD3.3SB
D107	8-719-157-94	s	DIODE RD3.3SB
D108	8-719-157-94	s	DIODE RD3.3SB
D109	8-719-157-94	s	DIODE RD3.3SB
D110	8-719-157-94	s	DIODE RD3.3SB
D111	8-719-157-94	s	DIODE RD3.3SB
D112	8-719-157-94	s	DIODE RD3.3SB
D113	8-719-157-94	s	DIODE RD3.3SB
D114	8-719-157-94	s	DIODE RD3.3SB
D115	8-719-157-94	s	DIODE RD3.3SB
D116	8-719-157-94	s	DIODE RD3.3SB
D117	8-719-157-94	s	DIODE RD3.3SB
D118	8-719-157-94	s	DIODE RD3.3SB
D119	8-719-157-94	s	DIODE RD3.3SB
D120	8-719-157-94	s	DIODE RD3.3SB

(H1 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D121	8-719-157-94	s	DIODE RD3.3SB
D122	8-719-157-94	s	DIODE RD3.3SB
D127	8-719-060-93	s	DIODE SML-311DTT86
D128	8-719-060-93	s	DIODE SML-311DTT86
D129	8-719-060-93	s	DIODE SML-311DTT86
D130	8-719-060-93	s	DIODE SML-311DTT86
D135	8-719-060-93	s	DIODE SML-311DTT86
D138	8-719-060-93	s	DIODE SML-311DTT86
D141	8-719-060-93	s	DIODE SML-311DTT86
D142	8-719-060-93	s	DIODE SML-311DTT86
D143	8-719-060-93	s	DIODE SML-311DTT86
D144	8-719-060-93	s	DIODE SML-311DTT86
D145	8-719-060-93	s	DIODE SML-311DTT86
D150	8-719-157-94	s	DIODE RD3.3SB
D151	8-719-157-94	s	DIODE RD3.3SB
D152	8-719-064-06	s	LED SML-020MVT-T87
D153	8-719-064-06	s	LED SML-020MVT-T87
D155	8-719-157-94	s	DIODE RD3.3SB
D156	8-719-157-94	s	DIODE RD3.3SB
D157	8-719-157-94	s	DIODE RD3.3SB
D158	8-719-157-94	s	DIODE RD3.3SB
FB100	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB101	1-414-921-11	s	INDUCTOR, FERRITE BEAD
IC100	8-759-669-53	s	IC TLC274CPWR-12
IC101	8-759-669-71	s	IC PCF8591T/2
IC102	8-759-669-53	s	IC TLC274CPWR-12
IC103	8-759-669-71	s	IC PCF8591T/2
IC104	8-759-990-61	s	IC PCF8574T
IC105	8-759-990-61	s	IC PCF8574T
IC106	8-759-990-61	s	IC PCF8574T
R100	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R101	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R102	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R103	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R104	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R105	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R106	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R107	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R108	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R109	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R110	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R111	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R112	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R113	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R114	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R115	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R116	1-218-851-11	s	RESISTOR, CHIP 1.5K 1/10W(1608)
R117	1-216-853-11	s	RESISTOR, CHIP 470K 1/16W(1608)
R118	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R119	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R120	1-216-839-11	s	RESISTOR, CHIP 33K 1/10W 1608
R121	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R122	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R123	1-216-813-11	s	RESISTOR, CHIP 220 1/10W 1608
R124	1-218-899-11	s	RESISTOR, CHIP 150K 1/10W(1608)
R125	1-218-899-11	s	RESISTOR, CHIP 150K 1/10W(1608)
R126	1-218-899-11	s	RESISTOR, CHIP 150K 1/10W(1608)

(H1 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R127	1-218-899-11	s RESISTOR,CHIP 150K 1/10W(1608)
R128	1-218-899-11	s RESISTOR,CHIP 150K 1/10W(1608)
R129	1-218-899-11	s RESISTOR,CHIP 150K 1/10W(1608)
R130	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R131	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R132	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R133	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R134	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R135	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R136	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R137	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R138	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R139	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R140	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R141	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R142	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R143	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R144	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R145	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R146	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R147	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R148	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R149	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R150	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R151	1-216-818-11	s RESISTOR, CHIP 560 1/10W 1608
R155	1-216-864-11	s CONDUCTOR, CHIP (1608)
R156	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R157	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R158	1-218-870-11	s RESISTOR,CHIP 9.1K 1/10W(1608)
R159	1-216-864-11	s CONDUCTOR, CHIP (1608)
R160	1-216-823-11	s RESISTOR, CHIP 1.5K 1/10W
R161	1-216-829-11	s RESISTOR,CHIP 4.7K 1/10W(1608)
R162	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R163	1-216-825-11	s RESISTOR,CHIP 2.2K 1/10W 1608
R164	1-218-847-11	s RESISTOR, CHIP 1K 1/10W (1608)
R165	1-218-847-11	s RESISTOR, CHIP 1K 1/10W (1608)
R166	1-218-839-11	s RESISTOR,CHIP 470 1/10W (1608)
R167	1-211-985-11	s RESISTOR,CHIP 47 1/10W (1608)
RV101	1-223-548-21	s RES, VAR, CARBON 10K
RV102	1-223-548-21	s RES, VAR, CARBON 10K
RV103	1-223-548-21	s RES, VAR, CARBON 10K
RV104	1-223-548-21	s RES, VAR, CARBON 10K
RV105	1-223-548-21	s RES, VAR, CARBON 10K
RV106	1-223-548-21	s RES, VAR, CARBON 10K
S101	1-762-586-21	s SWITCH
S102	1-762-586-21	s SWITCH
S103	1-762-586-21	s SWITCH
S104	1-762-586-21	s SWITCH
S105	1-762-586-21	s SWITCH
S106	1-762-586-21	s SWITCH
S107	1-762-586-21	s SWITCH
S108	1-762-586-21	s SWITCH
S109	1-762-586-21	s SWITCH
S110	1-762-586-21	s SWITCH
S111	1-762-586-21	s SWITCH
S112	1-762-586-21	s SWITCH
S113	1-762-586-21	s SWITCH
S114	1-762-586-21	s SWITCH

(H1 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S115	1-762-586-21	s SWITCH
S116	1-762-586-21	s SWITCH
S117	1-762-586-21	s SWITCH
S118	1-762-586-21	s SWITCH
S151	1-554-419-00	s SWITCH,PUSH

Q BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1085-133-A	s	MOUNTED CIRCUIT BOARD, Q
C700	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C701	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C702	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C703	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C704	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C705	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C706	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C707	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C708	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C709	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C710	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C711	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C712	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C713	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C714	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C715	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C716	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C717	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C718	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C719	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C720	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C721	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C722	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C723	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C724	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C725	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C726	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C727	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C728	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C729	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C730	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C731	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C732	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C770	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C771	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C772	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C773	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C774	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C775	1-128-589-11	s	CAPACITOR ELECT 47MF/6.3V(105C
C776	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C777	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C778	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C779	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C790	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C791	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C792	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C793	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C794	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C795	1-126-205-11	s	CAPACITOR,ELECT 47MF/6.3
C800	1-165-875-11	s	CAPACITOR, CHIP CERAMIC 10MF B
C801	1-165-875-11	s	CAPACITOR, CHIP CERAMIC 10MF B
C802	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C803	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C804	1-165-875-11	s	CAPACITOR, CHIP CERAMIC 10MF B
C805	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C806	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C807	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C808	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C809	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C810	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C811	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C812	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
C813	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C814	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C815	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C816	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C817	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C818	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3216
C819	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C820	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C821	1-165-875-11	s	CAPACITOR, CHIP CERAMIC 10MF B
C822	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C823	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN700	1-764-095-11	o	PIN, CONNECTOR (PC BOARD) 10P
CN710	1-695-210-21	o	PIN, CONNECTOR (PC BOARD) 15P
CN711	1-764-090-11	o	PIN, CONNECTOR (PC BOARD) 5P
CN712	1-764-099-11	s	PIN, CONNECTOR (PC BOARD) 14P
CN713	1-794-848-21	o	CONNECTOR,BOARD TO CABLE(4 PIN
CN800	1-764-088-11	o	PIN, CONNECTOR (PC BOARD) 3P
CN810	1-580-056-21	s	PIN,CONNECTOR 3P
D700	8-719-800-76	s	DIODE 1SS226
D701	8-719-800-76	s	DIODE 1SS226
D702	8-719-800-76	s	DIODE 1SS226
D703	8-719-800-76	s	DIODE 1SS226
D704	8-719-800-76	s	DIODE 1SS226
D705	8-719-016-74	s	DIODE 1SS352
D706	8-719-800-76	s	DIODE 1SS226
D707	8-719-800-76	s	DIODE 1SS226
D709	8-719-800-76	s	DIODE 1SS226
D710	6-500-697-01	s	DIODE UDZSTE-173.3B
D770	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D771	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D772	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D773	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D774	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D775	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D776	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D790	8-719-037-25	s	DIODE RD13SB-T1
D791	8-719-037-25	s	DIODE RD13SB-T1
D792	8-719-037-25	s	DIODE RD13SB-T1
D793	8-719-037-25	s	DIODE RD13SB-T1
D794	8-719-037-25	s	DIODE RD13SB-T1
D795	8-719-037-25	s	DIODE RD13SB-T1
D800	8-719-800-76	s	DIODE 1SS226
D801	8-719-800-76	s	DIODE 1SS226
D802	8-719-800-76	s	DIODE 1SS226
D803	8-719-404-50	s	DIODE MA111-TX
D804	8-719-800-76	s	DIODE 1SS226
D805	8-719-037-25	s	DIODE RD13SB-T1
D806	8-719-037-25	s	DIODE RD13SB-T1
D807	8-719-037-25	s	DIODE RD13SB-T1
D808	8-719-037-25	s	DIODE RD13SB-T1
FB770	1-414-921-11	s	INDUCTOR, FERRITE BEAD

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
FB800	1-469-379-11	s FERRITE, EMI (SMD)
FB801	1-211-977-11	s RESISTOR,CHIP 22 1/10W (1608)
FB802	1-211-977-11	s RESISTOR,CHIP 22 1/10W (1608)
FL790	1-239-825-11	s FILTER, CHIP EMI
FL791	1-239-825-11	s FILTER, CHIP EMI
FL792	1-239-825-11	s FILTER, CHIP EMI
FL800	1-233-320-41	s FILTER, CHIP EMI
IC770	8-759-465-03	s IC PCF8574AT/3-T
IC790	8-759-252-59	s IC MAX202CSE
IC800	8-759-523-02	s IC TC74HC4053AFT(EL)
IC801	8-759-523-02	s IC TC74HC4053AFT(EL)
J770	1-569-023-11	s JACK, MODULAR 8P
J790	1-750-628-11	s SOCKET, DIN 8P
J800	1-507-792-00	s JACK
J801	1-507-792-00	s JACK
J803	1-507-792-00	s JACK
J804	1-507-756-31	s JACK, SMALL
J805	1-507-792-00	s JACK
Q700	8-729-905-35	s TRANSISTOR 2SC4081-R
Q701	8-729-905-35	s TRANSISTOR 2SC4081-R
Q702	8-729-905-35	s TRANSISTOR 2SC4081-R
Q703	8-729-905-35	s TRANSISTOR 2SC4081-R
Q704	8-729-905-35	s TRANSISTOR 2SC4081-R
Q705	8-729-905-35	s TRANSISTOR 2SC4081-R
Q706	8-729-905-35	s TRANSISTOR 2SC4081-R
Q707	8-729-905-35	s TRANSISTOR 2SC4081-R
Q708	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q709	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q710	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q711	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q800	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q801	8-729-905-35	s TRANSISTOR 2SC4081-R
Q802	8-729-905-35	s TRANSISTOR 2SC4081-R
Q803	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q804	8-729-905-35	s TRANSISTOR 2SC4081-R
Q805	8-729-026-53	s TRANSISTOR 2SA1576A-T106-QR
Q806	8-729-026-53	s TRANSISTOR 2SA1576A-T106-QR
Q807	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q808	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q809	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q810	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q814	8-729-029-14	s TRANSISTOR DTC144EUA-T106
R700	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R701	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R702	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R703	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R704	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R705	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R706	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R707	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R708	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R709	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R710	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R711	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R712	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R713	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R714	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R715	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R716	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R717	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R718	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R719	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R720	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R721	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R722	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R723	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R724	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R725	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R726	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R727	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R728	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R729	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R730	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R731	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R732	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R733	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R734	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R735	1-214-837-11	s RESISTOR,METAL FILM 75,1/2W
R736	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R737	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R738	1-216-823-11	s RESISTOR,CHIP 1.5K 1/10W
R739	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R740	1-216-819-11	s RESISTOR,CHIP 680 1/10W 1608
R741	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R742	1-216-819-11	s RESISTOR,CHIP 680 1/10W 1608
R743	1-216-819-11	s RESISTOR,CHIP 680 1/10W 1608
R770	1-216-864-11	s CONDUCTOR,CHIP (1608)
R771	1-216-864-11	s CONDUCTOR,CHIP (1608)
R772	1-216-864-11	s CONDUCTOR,CHIP (1608)
R776	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R777	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R778	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R779	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R780	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R781	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R782	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R800	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R801	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R802	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R803	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R804	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R807	1-218-874-11	s RESISTOR,CHIP 13K 1/10W (1608)
R808	1-218-871-11	s RESISTOR,CHIP 10K 1/10W (1608)
R811	1-216-845-11	s RESISTOR,CHIP 100K 1/10W(1608)
R812	1-216-841-11	s RESISTOR,CHIP 47K 1/10W 1608
R816	1-216-797-11	s RESISTOR,CHIP 10 1/10W 1608
R817	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R818	1-216-827-11	s RESISTOR,CHIP 3.3K 1/10W 1608
R819	1-216-827-11	s RESISTOR,CHIP 3.3K 1/10W 1608
R820	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)
R821	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R822	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R823	1-216-841-11	s RESISTOR,CHIP 47K 1/10W 1608
R825	1-216-827-11	s RESISTOR,CHIP 3.3K 1/10W 1608
R826	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R827	1-216-833-11	s RESISTOR,CHIP 10K 1/10W (1608)

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R828	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/10W 1608
R829	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/10W 1608
R830	1-216-833-11	s	RESISTOR, CHIP 10K 1/10W (1608)
R832	1-216-837-11	s	RESISTOR, CHIP 22K 1/10W 1608
R833	1-216-833-11	s	RESISTOR, CHIP 10K 1/10W (1608)
R834	1-216-797-11	s	RESISTOR, CHIP 10 1/10W 1608
R835	1-216-821-11	s	RESISTOR, CHIP 1.0K 1/10W(1608)
R836	1-216-833-11	s	RESISTOR, CHIP 10K 1/10W (1608)
R837	1-216-837-11	s	RESISTOR, CHIP 22K 1/10W 1608
R838	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R839	1-216-821-11	s	RESISTOR, CHIP 1.0K 1/10W(1608)
R840	1-216-837-11	s	RESISTOR, CHIP 22K 1/10W 1608
R841	1-216-821-11	s	RESISTOR, CHIP 1.0K 1/10W(1608)
R842	1-216-845-11	s	RESISTOR, CHIP 100K 1/10W(1608)
R843	1-216-826-11	s	RESISTOR, CHIP 2.7K 1/10W(1608)
R844	1-216-845-11	s	RESISTOR, CHIP 100K 1/10W(1608)
R845	1-216-833-11	s	RESISTOR, CHIP 10K 1/10W (1608)
R846	1-216-841-11	s	RESISTOR, CHIP 47K 1/10W 1608
R854	1-216-821-11	s	RESISTOR, CHIP 1.0K 1/10W(1608)
R855	1-216-833-11	s	RESISTOR, CHIP 10K 1/10W (1608)
RB770	1-234-372-11	s	RES, NETWORK 100X4 (1005)
RB771	1-234-372-11	s	RES, NETWORK 100X4 (1005)

X BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1086-687-A	s	MOUNTED CIRCUIT BOARD, X
CN950	1-580-056-21	s	PIN, CONNECTOR 3P
D950	8-719-083-63	s	DIODE UDZSTE-1713B
D951	8-719-083-63	s	DIODE UDZSTE-1713B
D952	8-719-054-22	s	LED SML-020MLTT87
D953	8-719-054-22	s	LED SML-020MLTT87
D954	8-719-054-22	s	LED SML-020MLTT87
D955	8-719-054-22	s	LED SML-020MLTT87
D956	8-719-054-22	s	LED SML-020MLTT87
D957	8-719-054-22	s	LED SML-020MLTT87
R950	1-218-662-11	s	RESISTOR, CHIP 56 1/16W (1608)
R952	1-218-656-11	s	RESISTOR, CHIP 33 1/16W (1608)
R954	1-218-662-11	s	RESISTOR, CHIP 56 1/16W (1608)
R956	1-218-656-11	s	RESISTOR, CHIP 33 1/16W (1608)
R958	1-218-662-11	s	RESISTOR, CHIP 56 1/16W (1608)
R960	1-218-656-11	s	RESISTOR, CHIP 33 1/16W (1608)

5-4. Supplied Accessories

SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	2-582-805-08	s	MANUAL, INSTRUCTION CD-ROM (JAPANESE, ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, SIMPLIFIED CHINESE, TRADITIONAL CHINESE, KOREAN)
1pc	2-593-387-08	s	MANUAL, INSTRUCTION (JAPANESE, ENGLISH)
1pc	2-990-242-01	s	HOLDER (B), PLUG
1pc	△ -----		CORD, POWER (See Sec.1-5. Warning on Power Connection)

5-5. VF-509

SUPPLIED ACCESSORIES

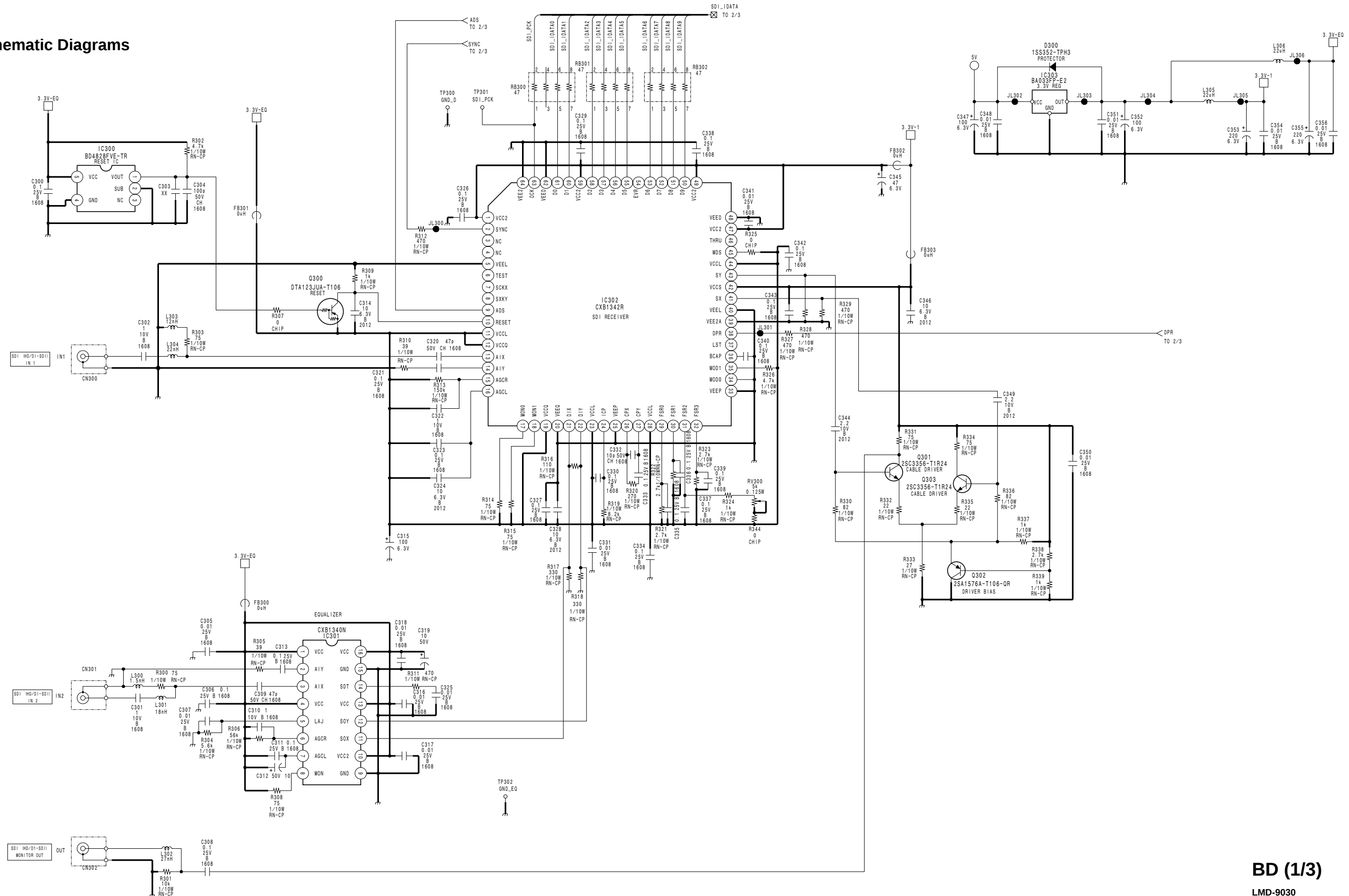
Ref. No. or Q'ty	Part No.	SP	Description
1pc	2-593-386-01	s	MOUNTING INSTRUCTIONS (JAPANESE, ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, SIMPLIFIED CHINESE, TRADITIONAL CHINESE, KOREAN)

Overall	Overall
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Section 7 Diagrams

7-1. Schematic Diagrams



BD (1/3)

LMD-9030

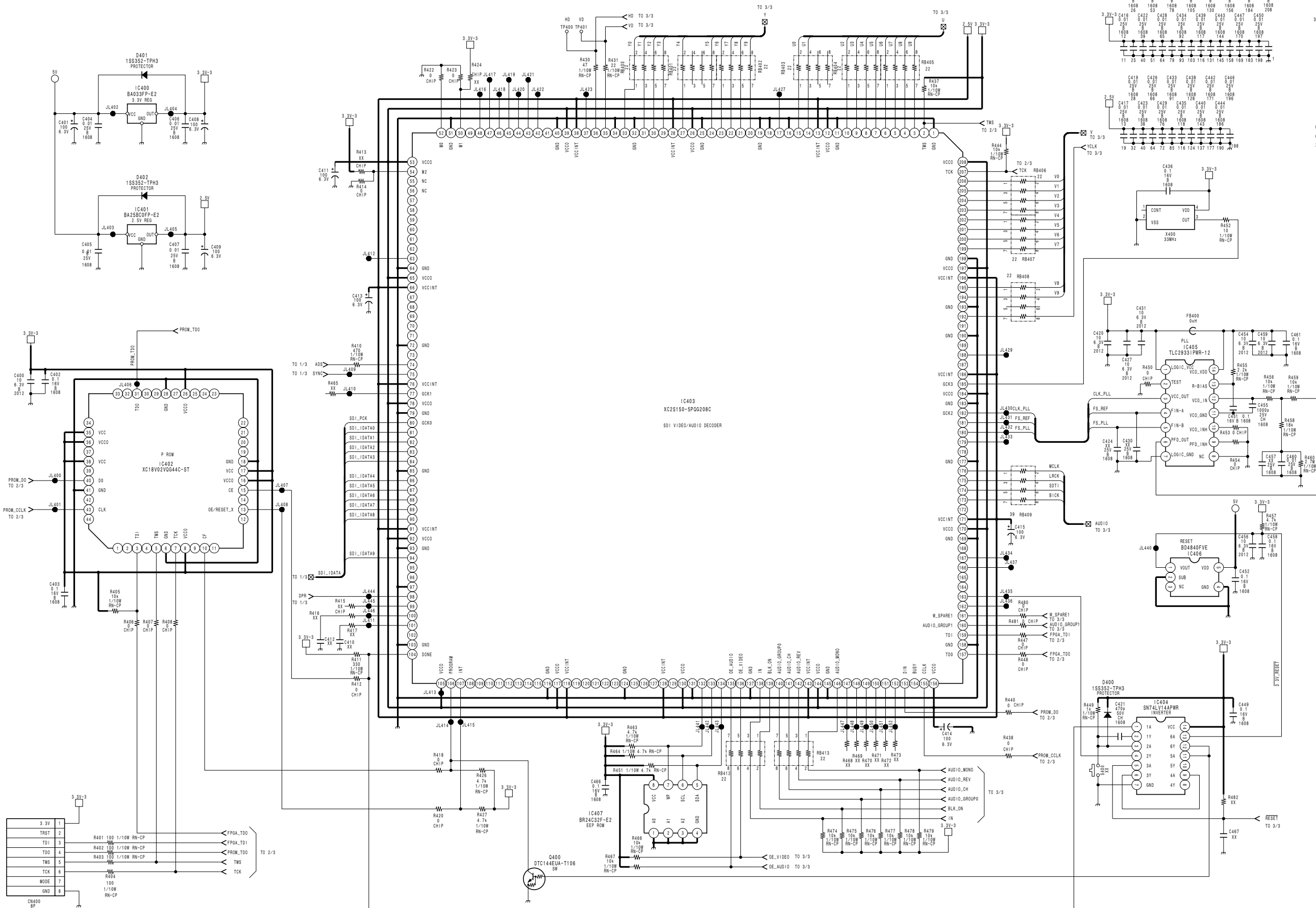
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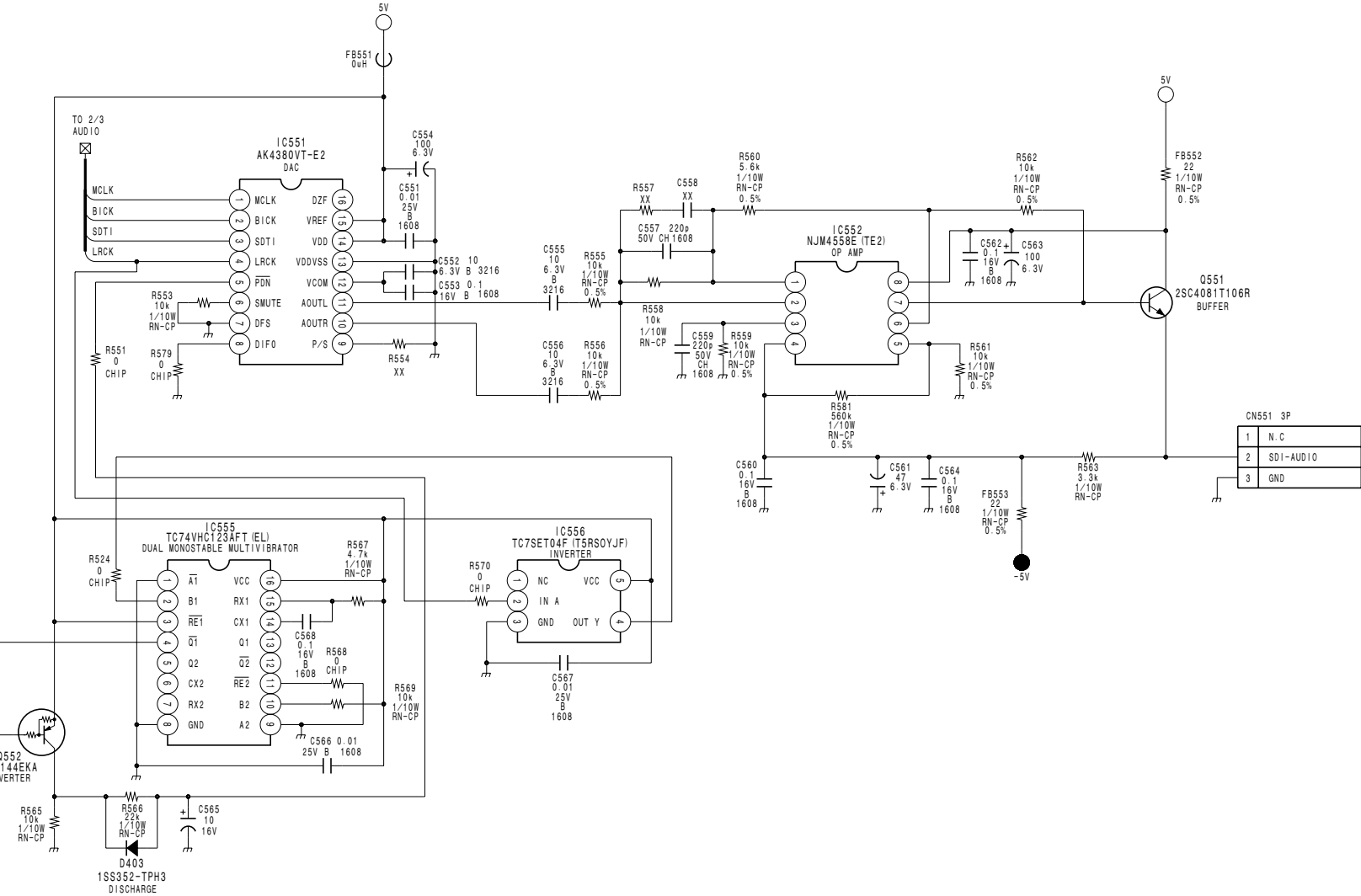
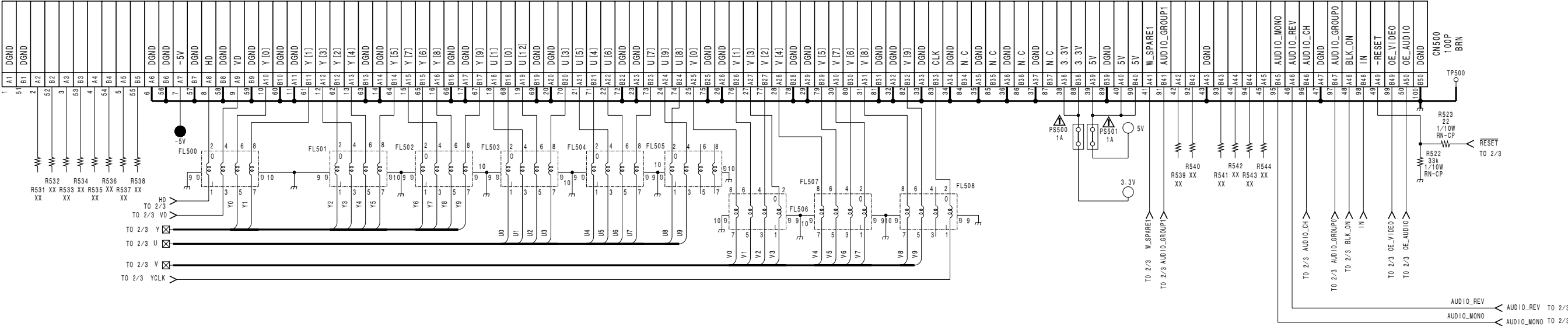
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BD (2/3)

LMD-9030

LMD-9050/9030/9020



1

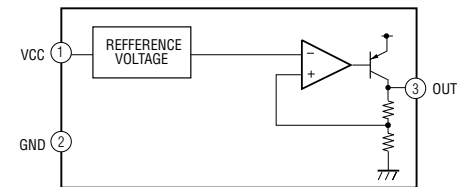
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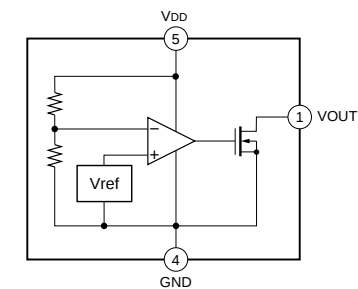
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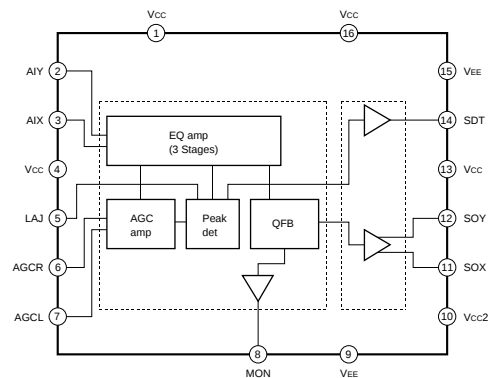
BD (1/3), (2/3) BA033FP-E2 (IC303, IC400)
BD (2/3) BA25BC0FP-E2 (IC401)



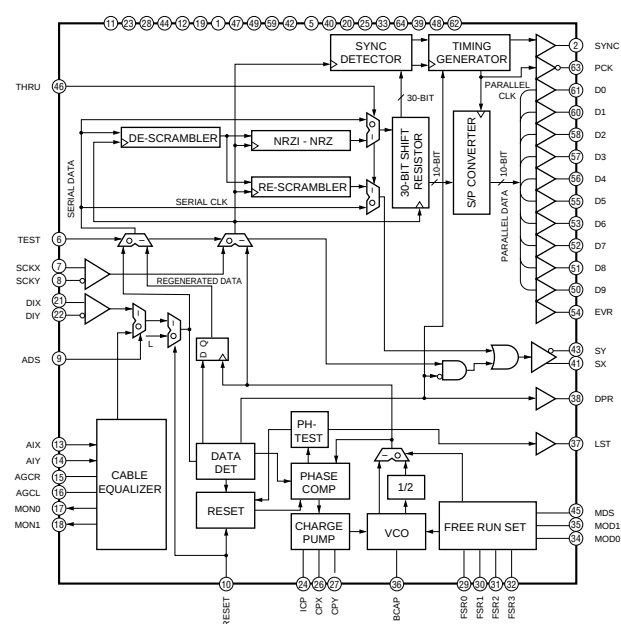
BD (1/3) BD4828FVE-TR (IC300)
BD (2/3) BD4840FVE-TR (IC406)



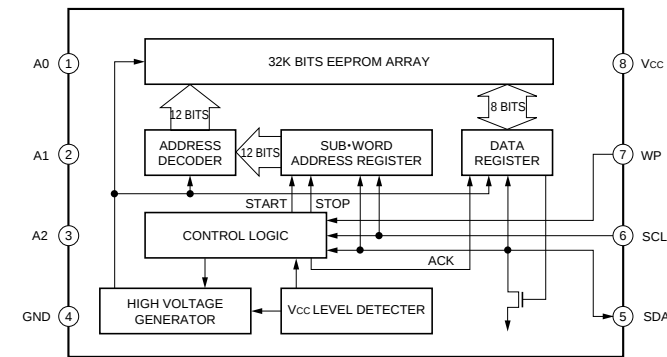
BD (1/3) CXB1340N (IC301)



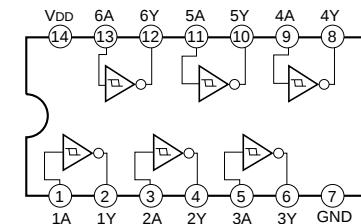
BD (1/3) CXB1342R (IC302)



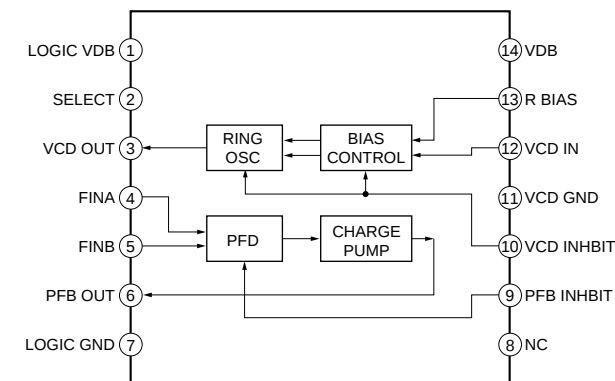
BD (2/3) BR24C32F-E2 (IC407)



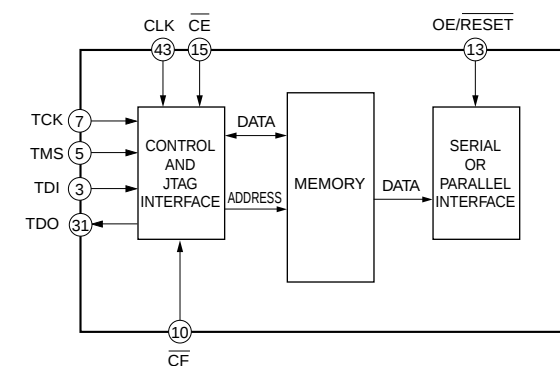
BD (2/3) SN74LV14APWR (IC404)



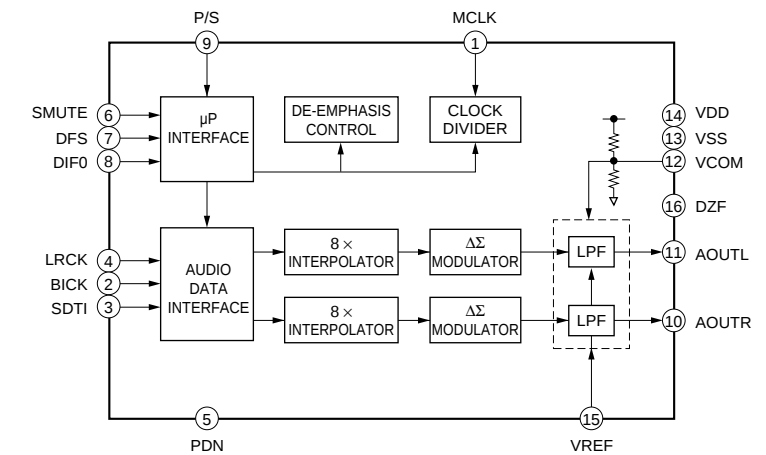
BD (2/3) TLC2933IPWR-12 (IC405)



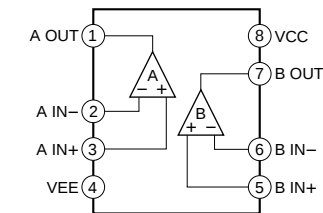
BD (2/3) XC18V02VQG44C (IC402)



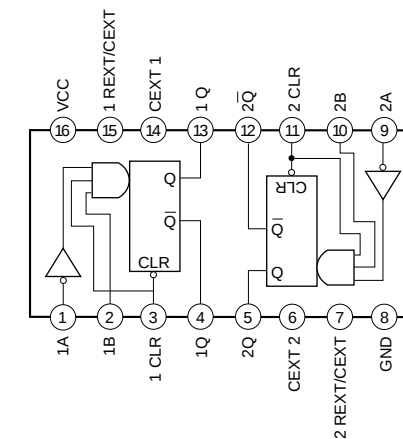
BD (3/3) AK4380VT-E2 (IC551)



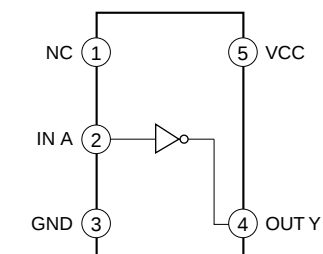
BD (3/3) NJM4558E(TE2) (IC552)

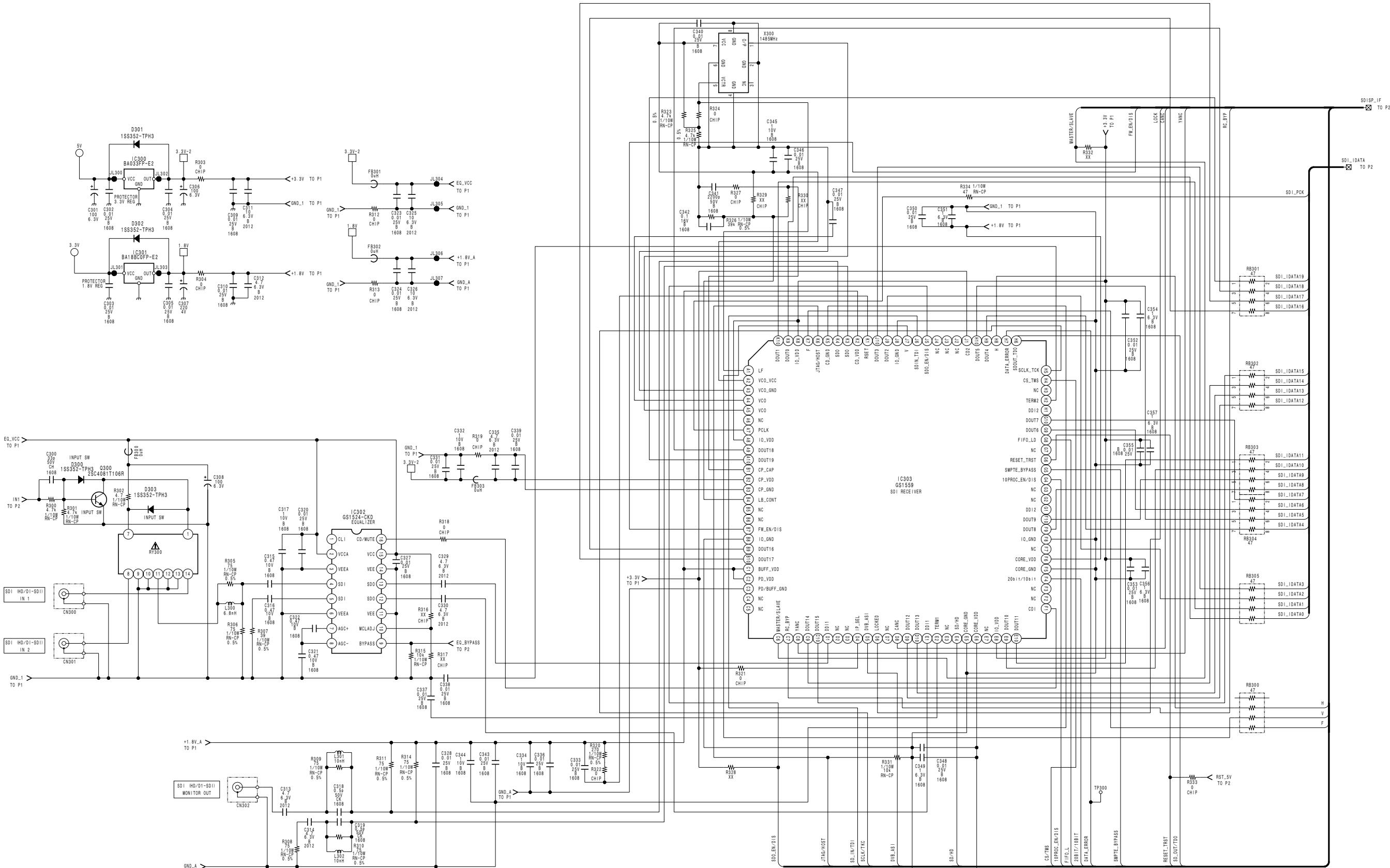


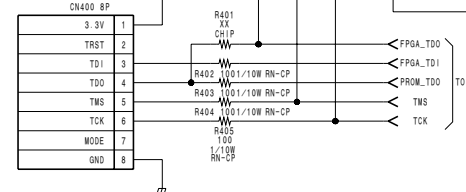
BD (3/3) TC74VHC123AFT(EL) (IC555)

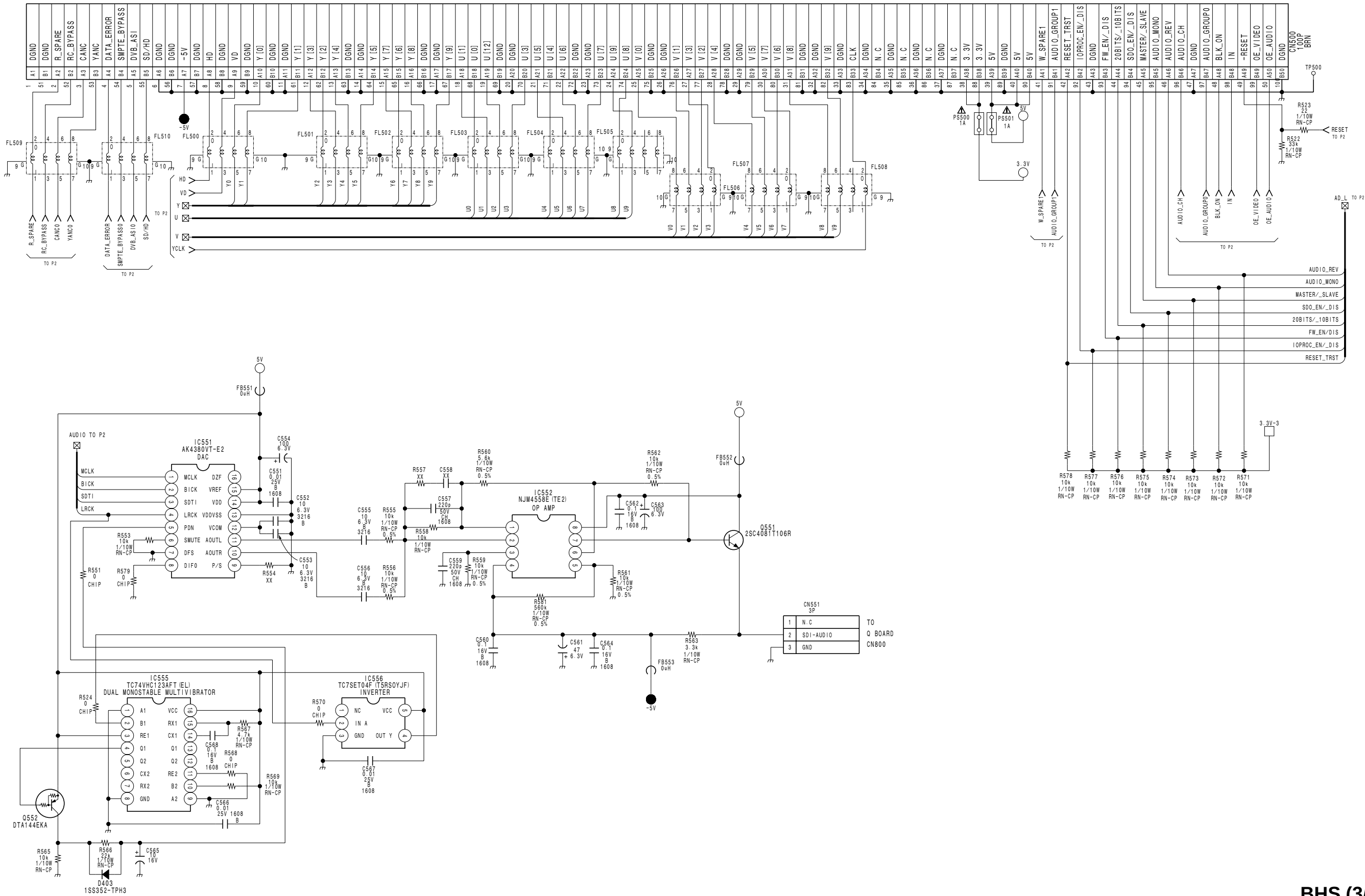


BD (3/3) TC7SET04F(T5RSOYJF) (IC556)









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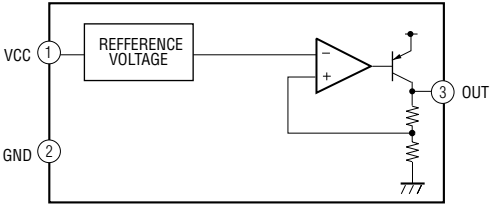
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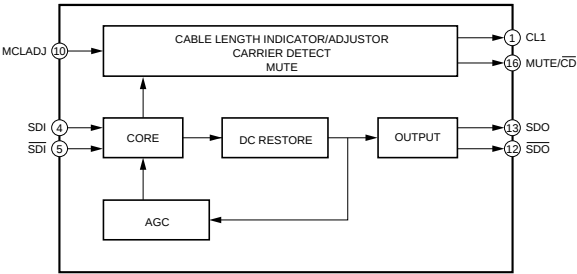
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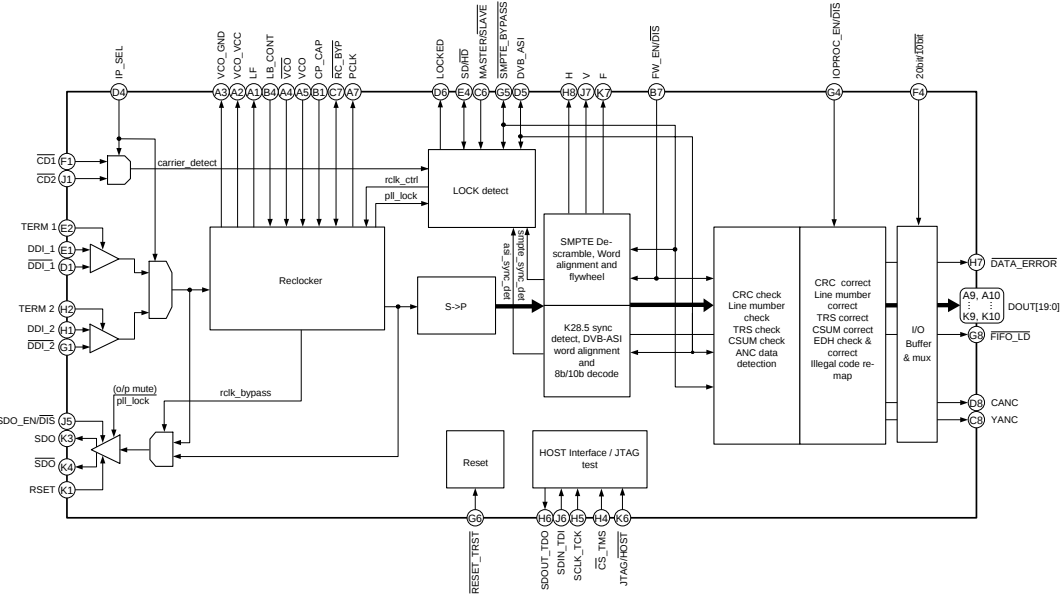
BHS (1/3), (2/3) BA033FP-E2 (IC300, IC400)
BHS (1/3) BA18BC0FP-E2 (IC301)
BHS (2/3) BA25BC0FP-E2 (IC401)



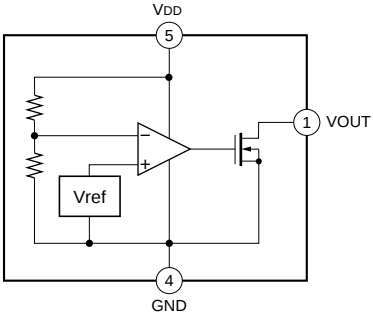
BHS (1/3) GS1524-CKDE3 (IC302)



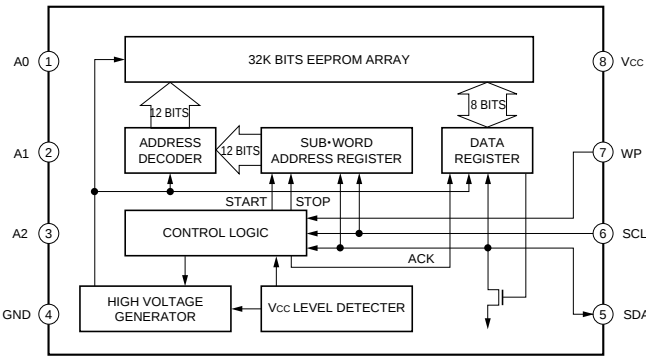
BHS (1/3) GS-1559-CBE2 (IC303)



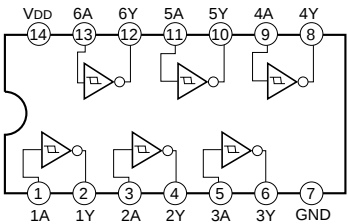
BHS (2/3) BD4840FVE-TR (IC406)



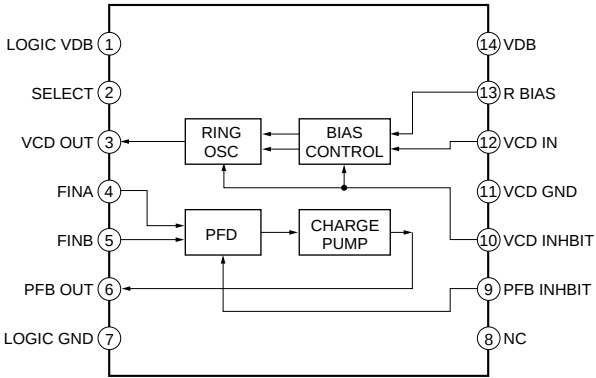
BHS (2/3) BR24C32F-E2 (IC407)



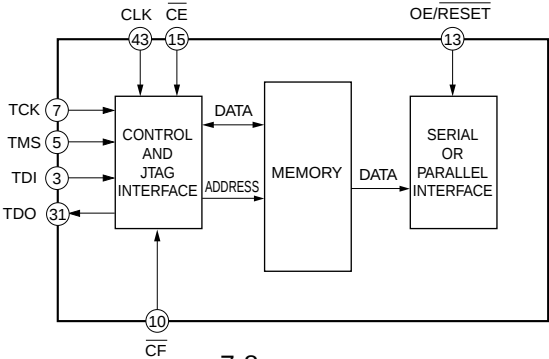
BHS (2/3) SN74LV14APWR (IC404)



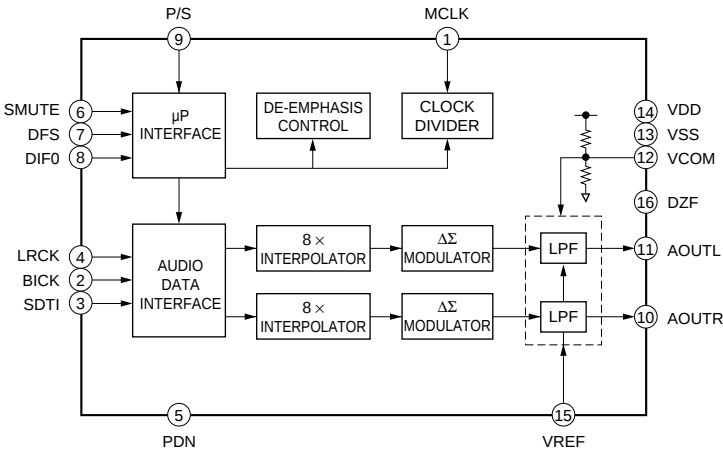
BHS (2/3) TLC2933IPWR-12 (IC405)



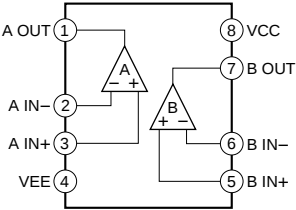
BHS (2/3) XC18V02VQG44C (IC402)



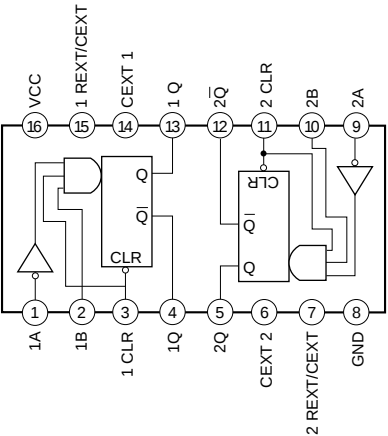
BHS (3/3) AK4380VT-E2 (IC551)



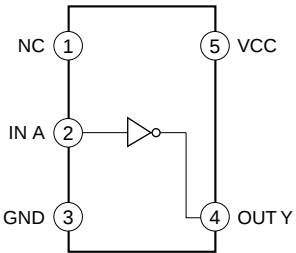
BHS (3/3) NJM4558E(TE2) (IC552)



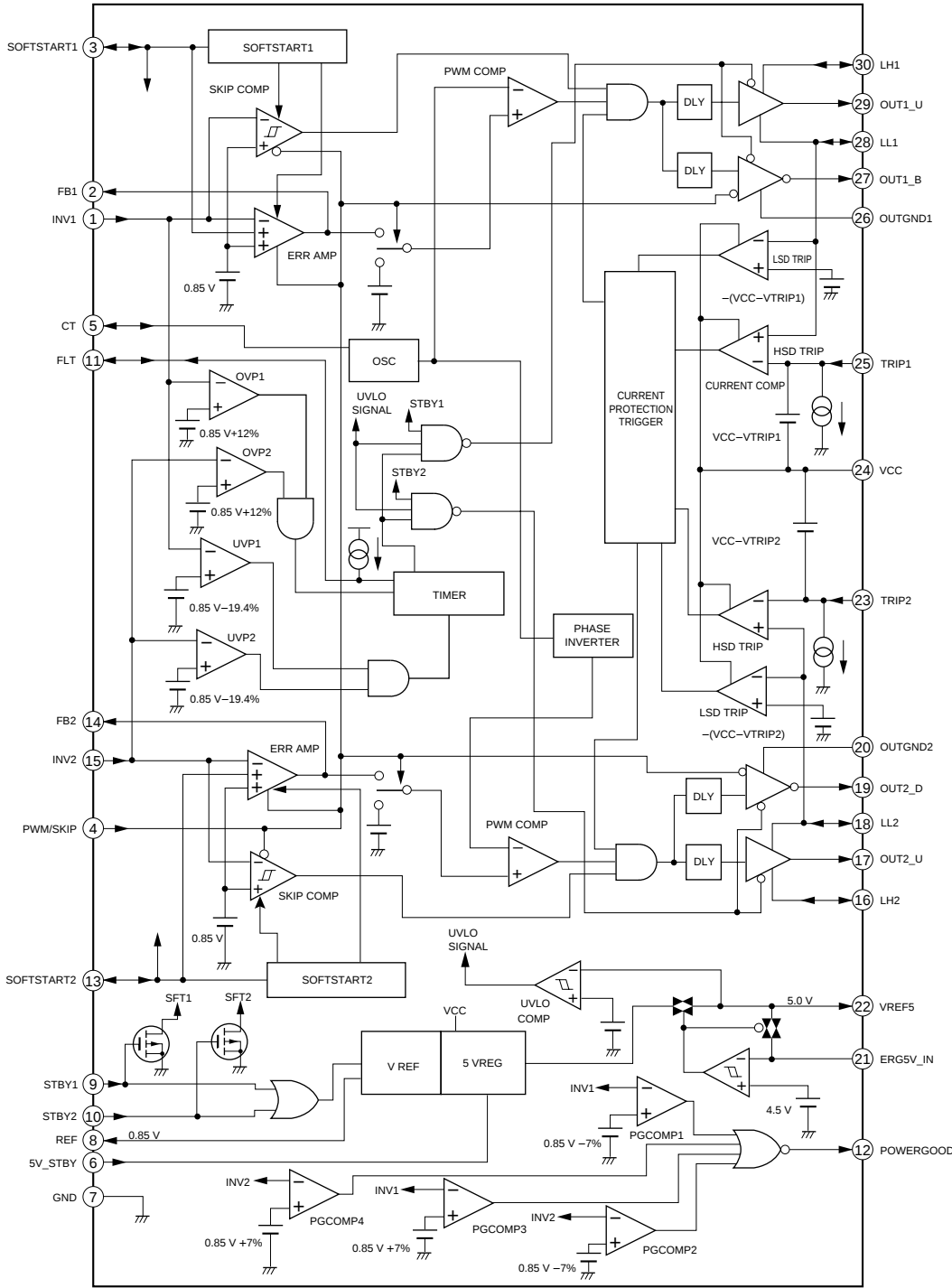
BHS (3/3) TC74VHC123AFT(EL) (IC555)



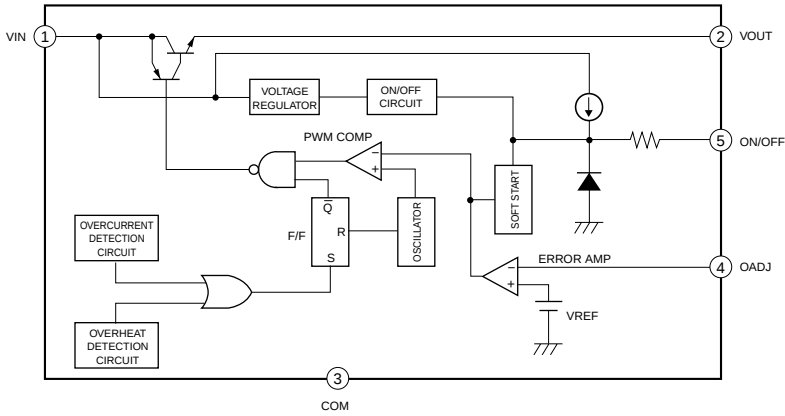
BHS (3/3) TC7SET04F(T5RSOYJF) (IC556)



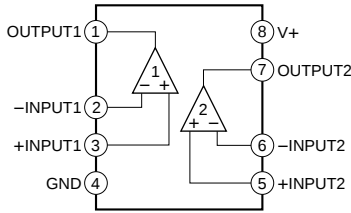
TPS5120DBTR (IC220, IC260)

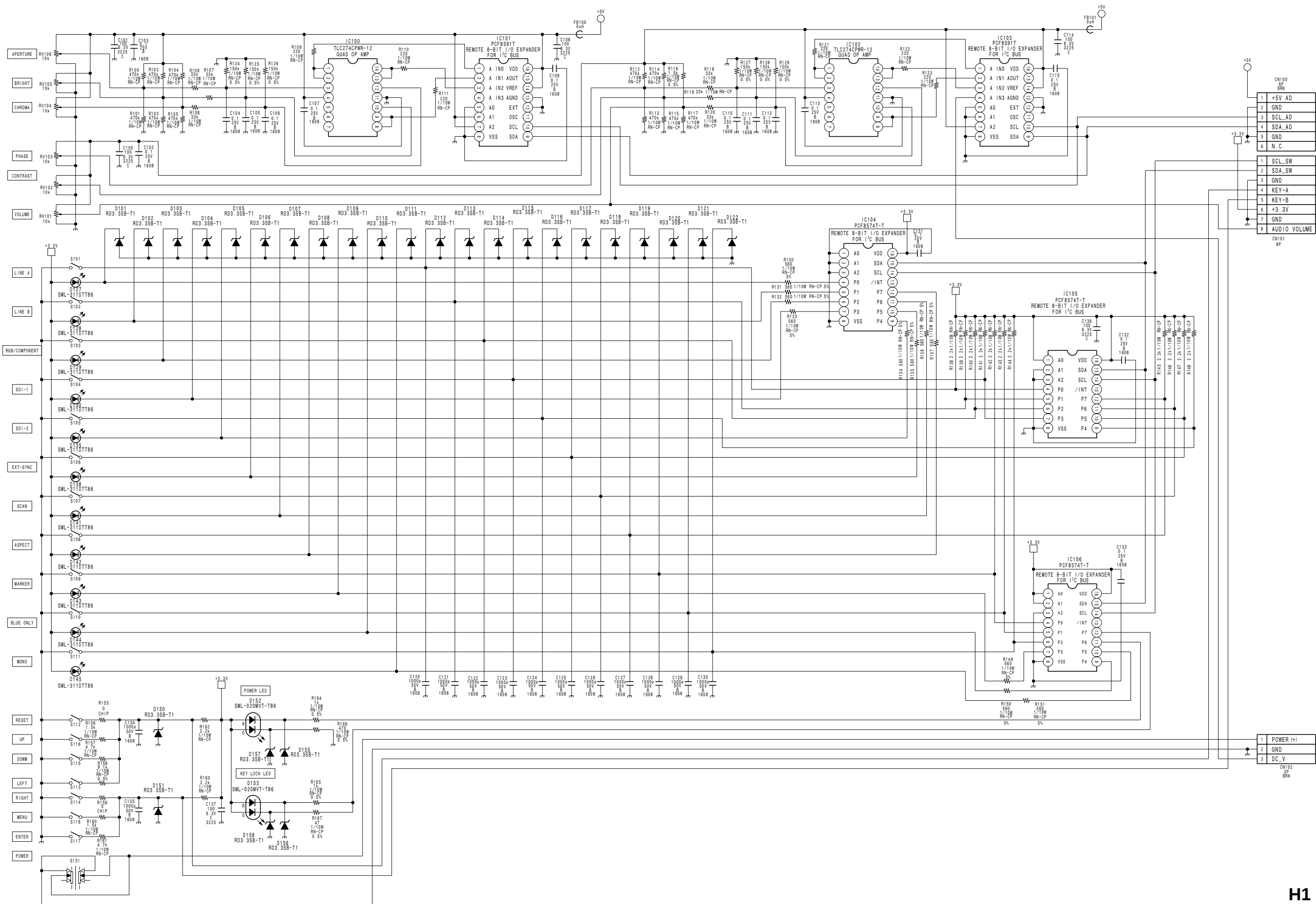


PQ1CZ41H2ZPH (IC261)

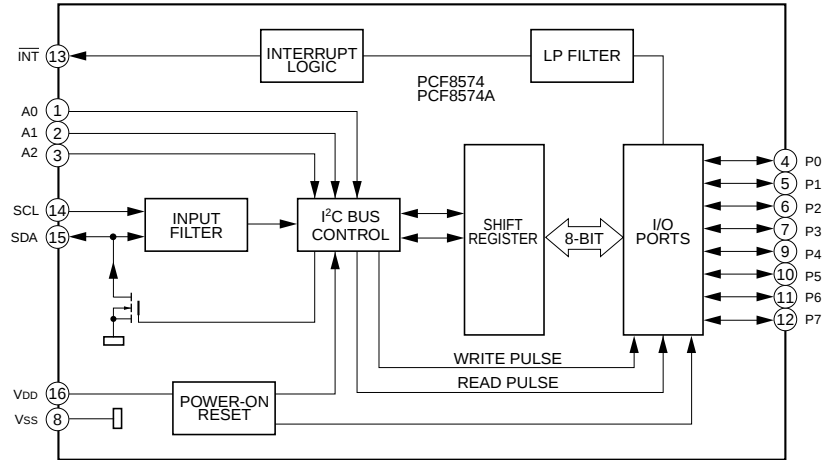


NJM2903M-TE2 (IC200, IC221)

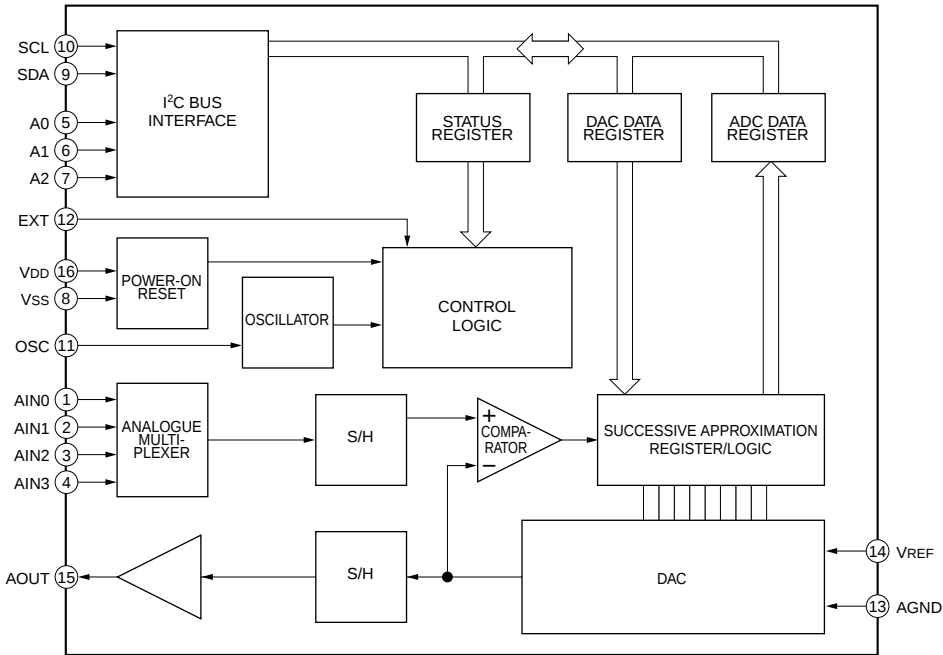


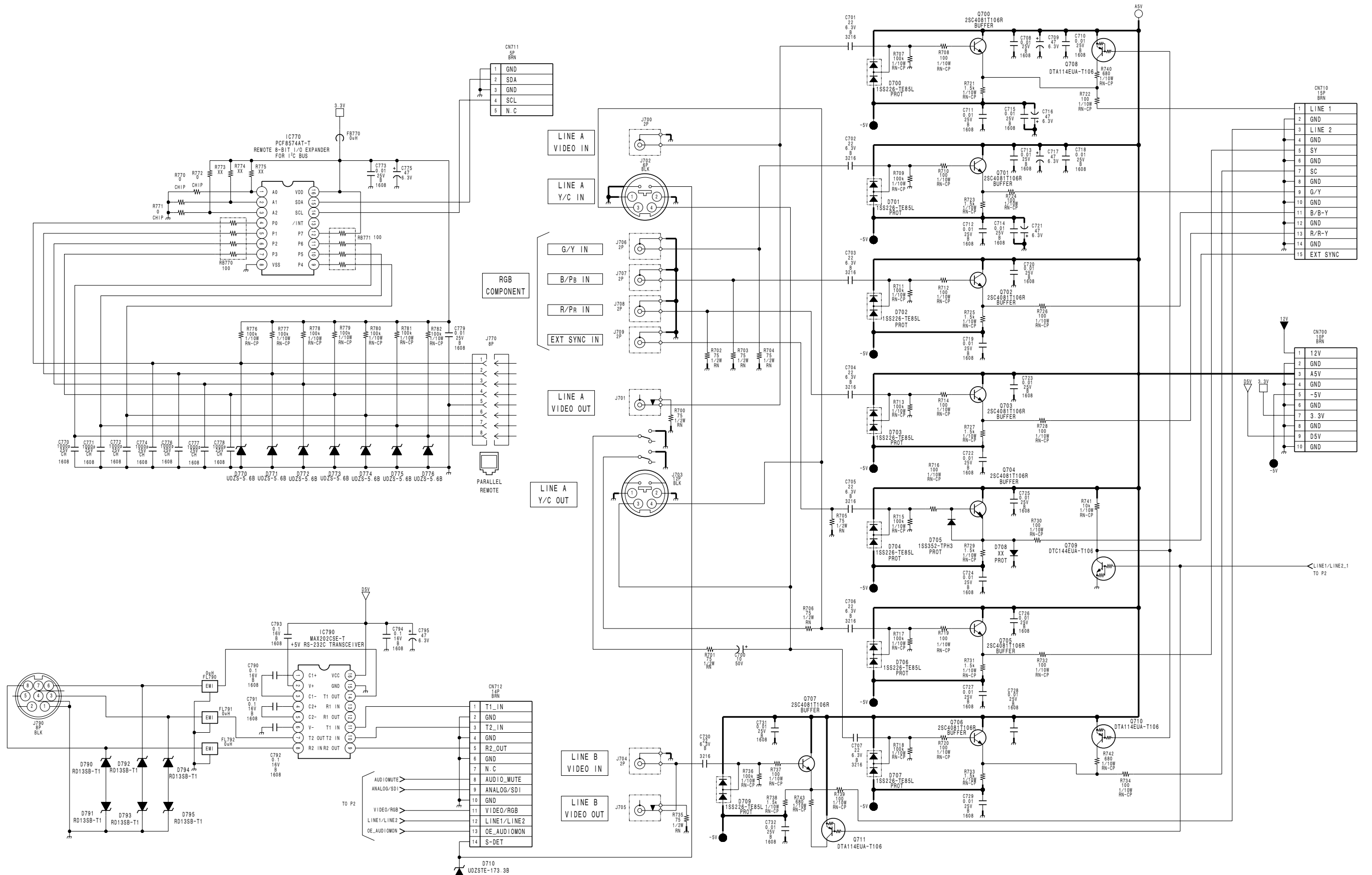


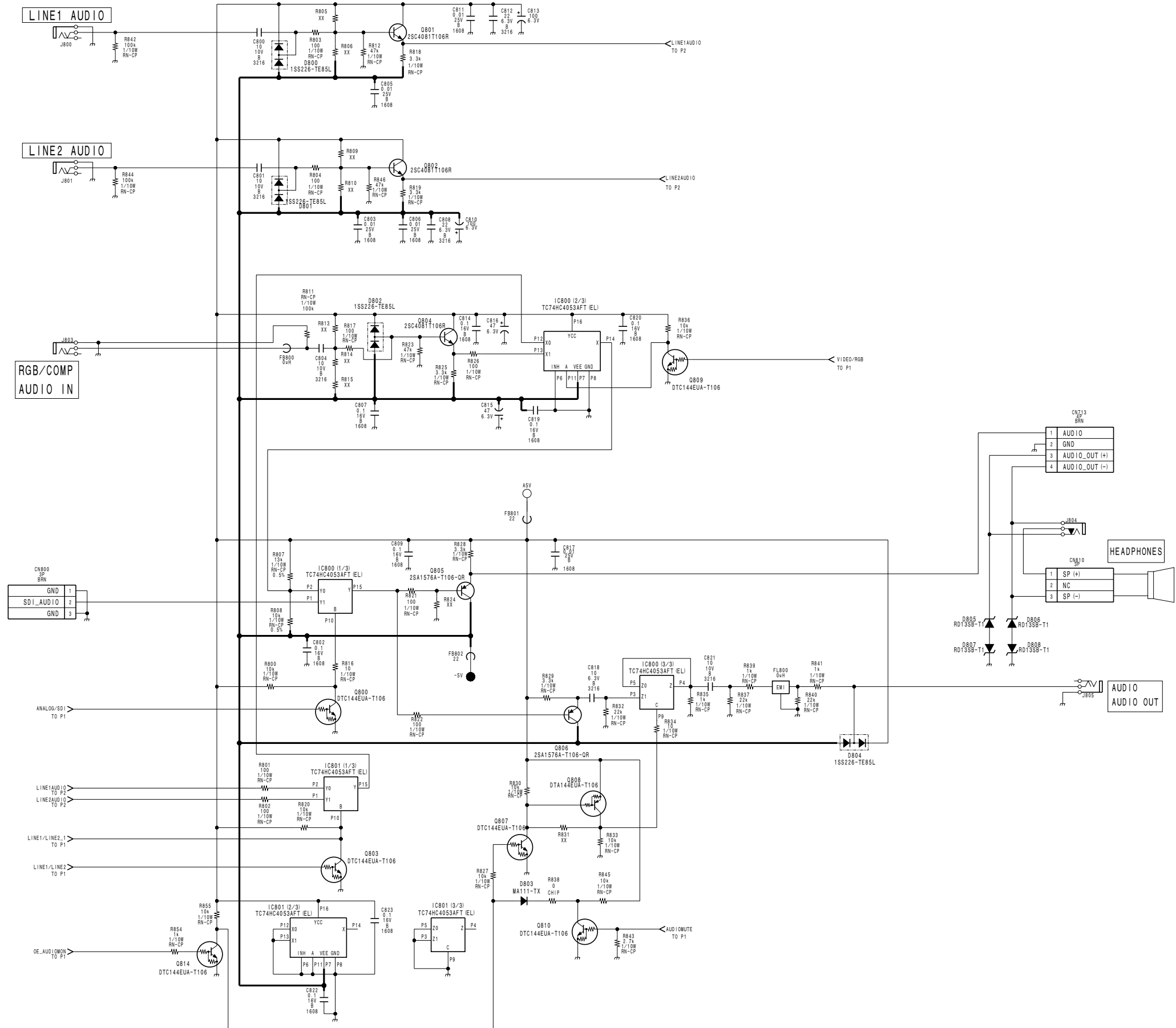
PCF8574T/3-T (IC104, IC105, IC106)



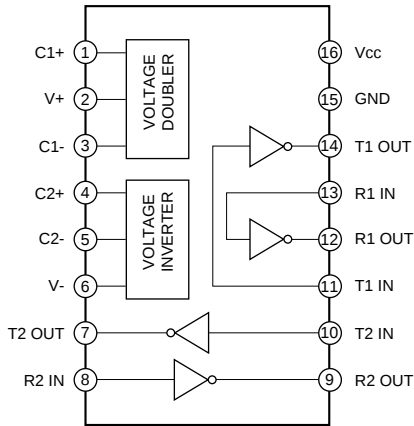
PCF8591T/2 (IC101, IC103)



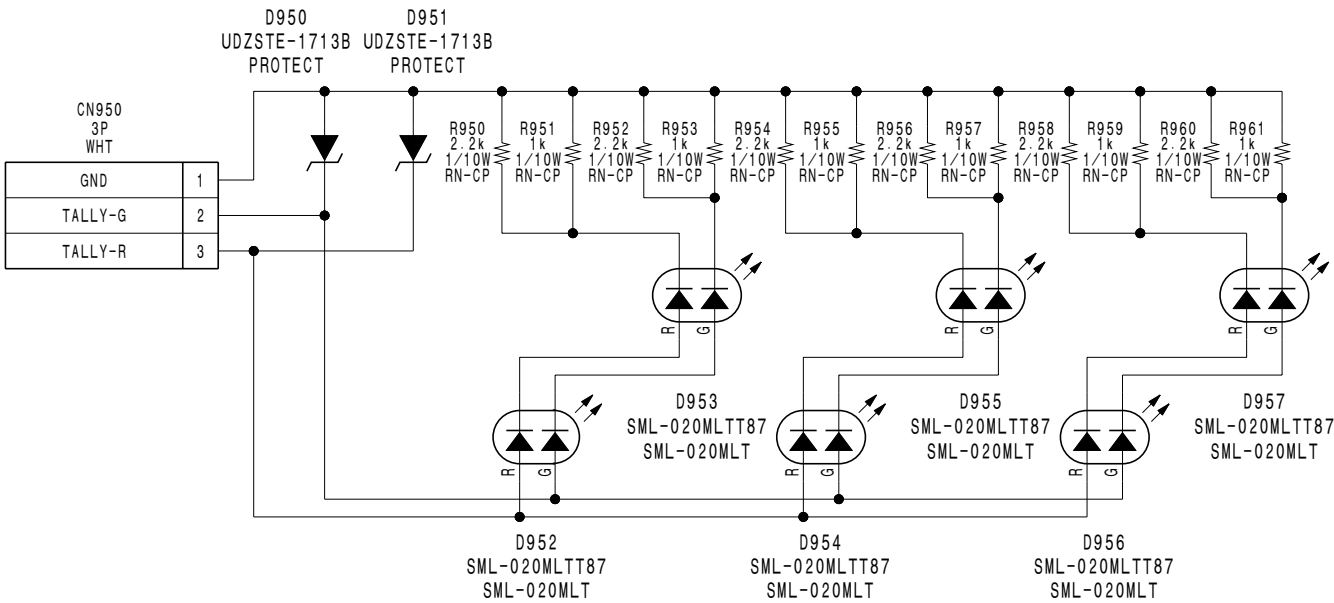
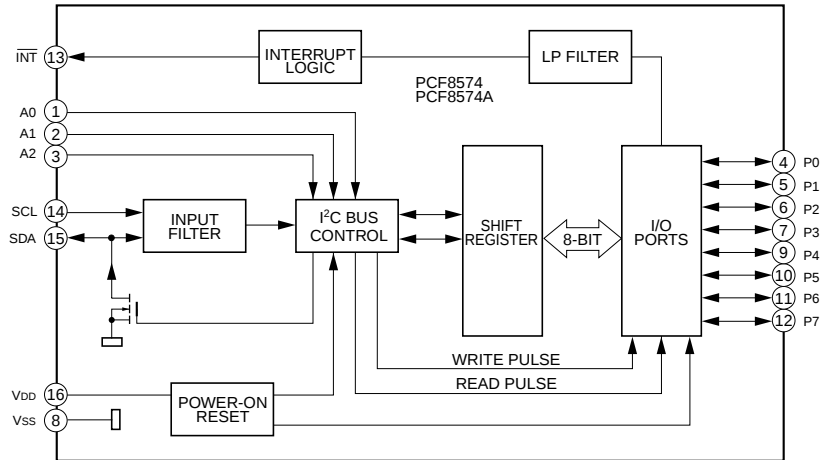




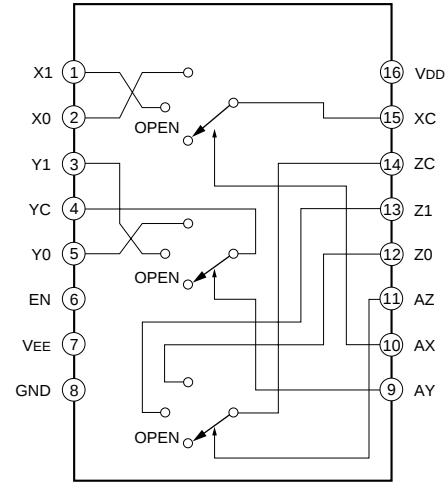
Q (1/2) MAX202CS (IC790)



Q (1/2) PCF8574AT/3-T (IC770)



Q (2/2) TC74HC4053AFT(EL) (IC800, IC801)



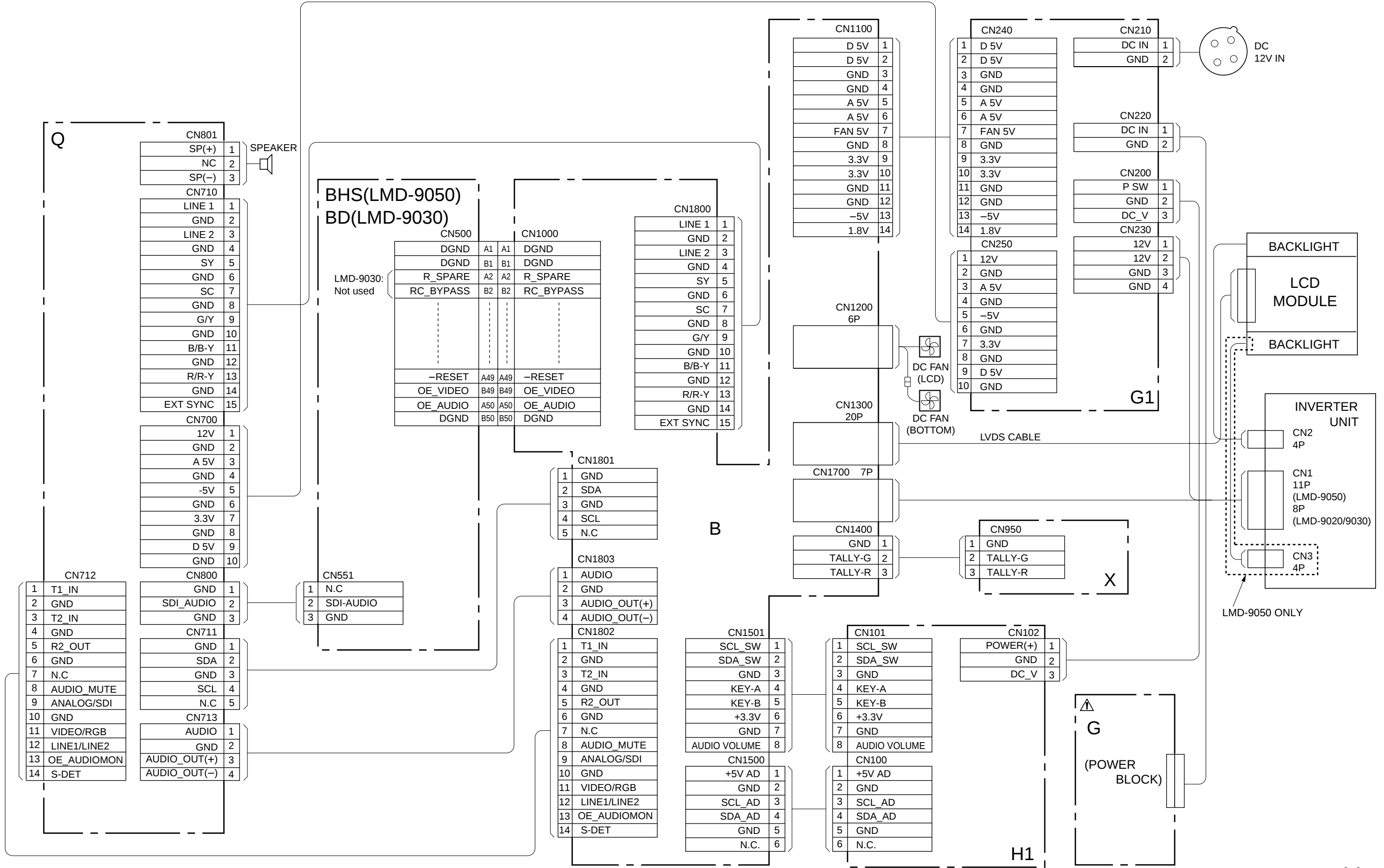
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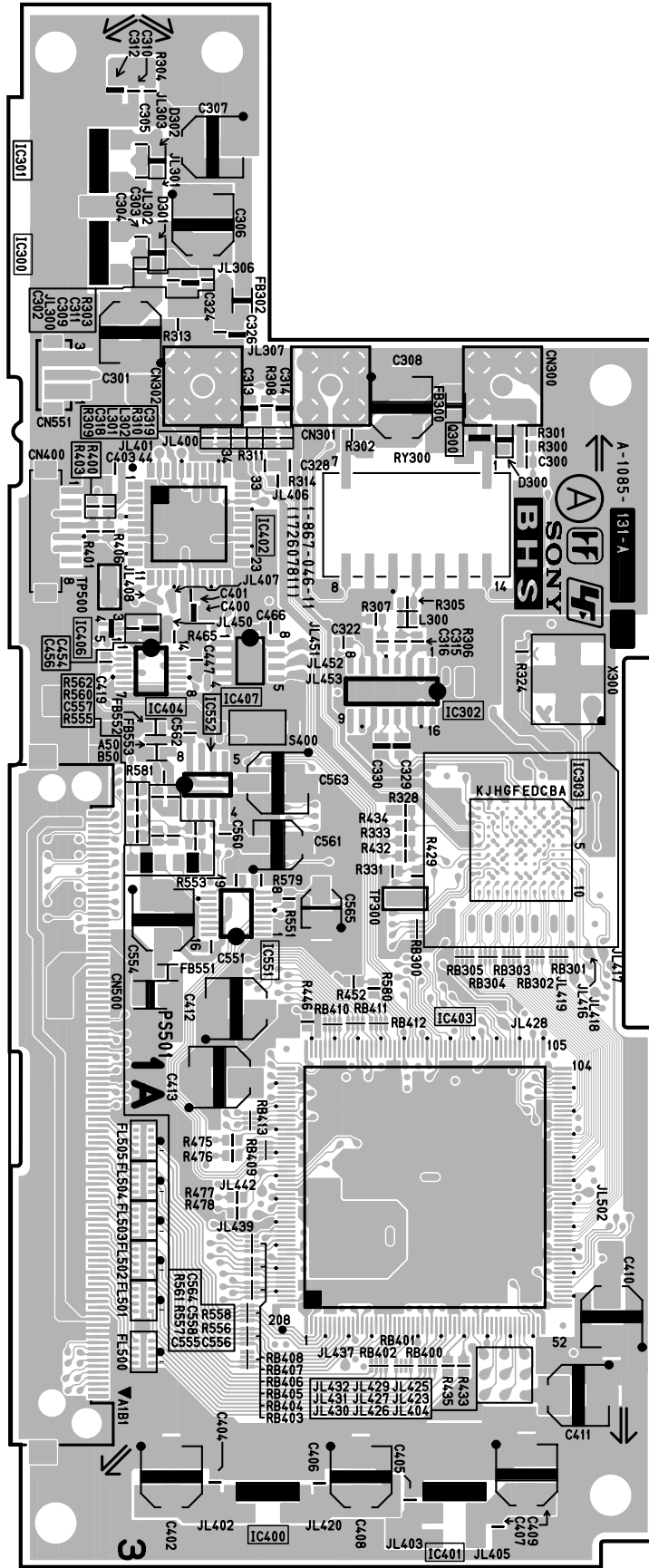
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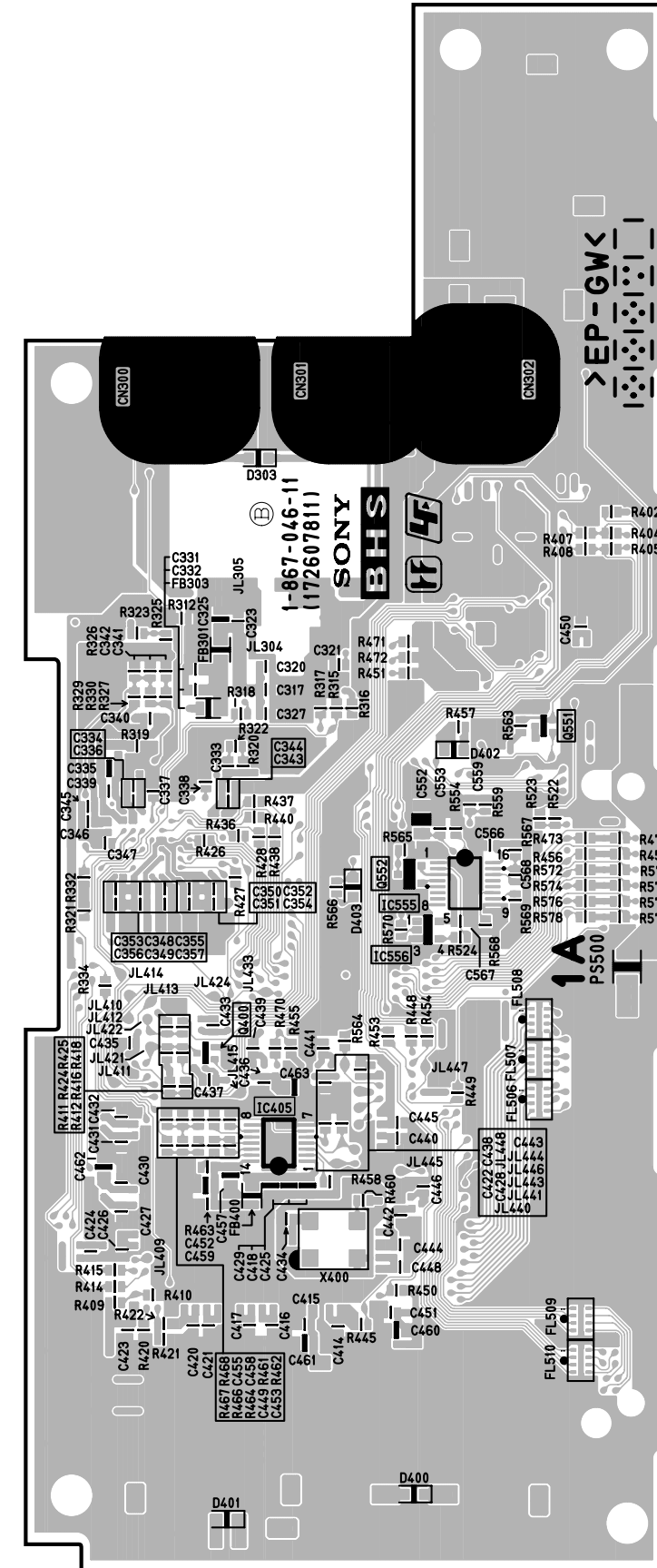
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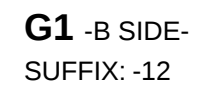
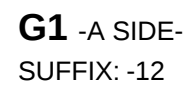
Frame Wiring



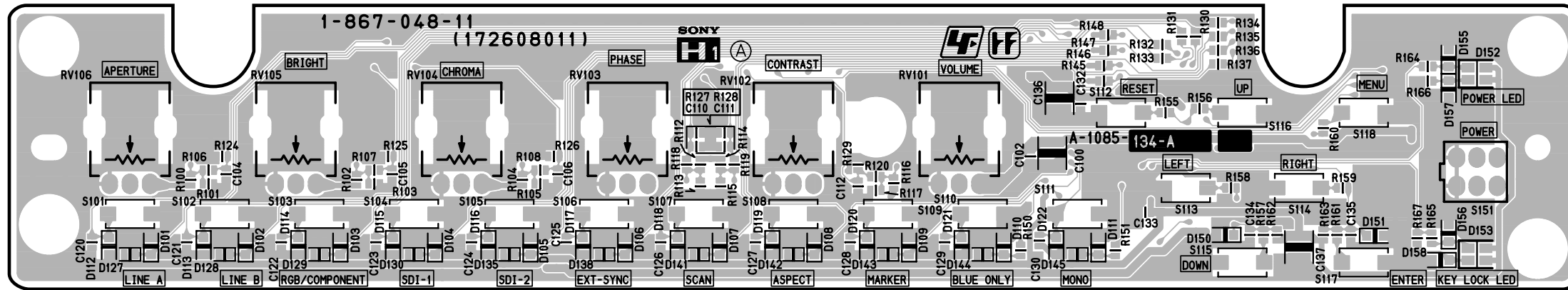
BHS -A SIDE-SUFFIX: -11
LMD-9050



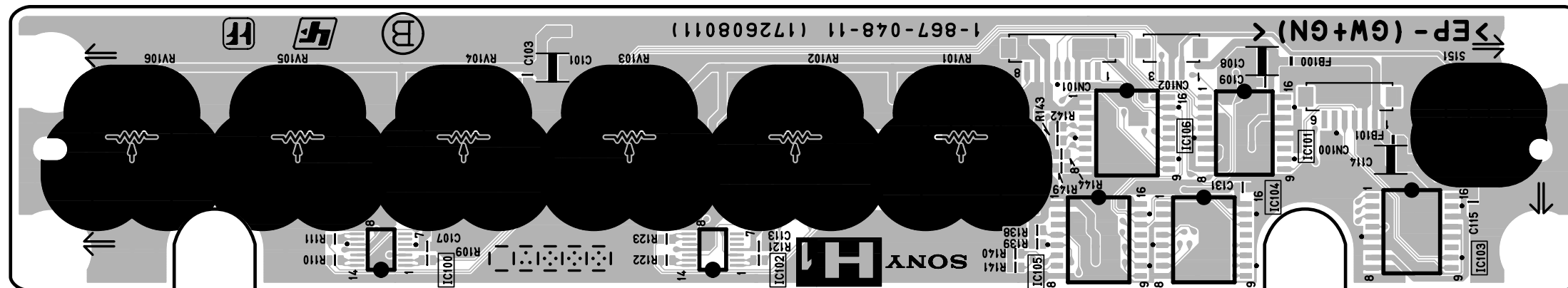
BHS -B SIDE-
SUFFIX: -11
LMD-9050



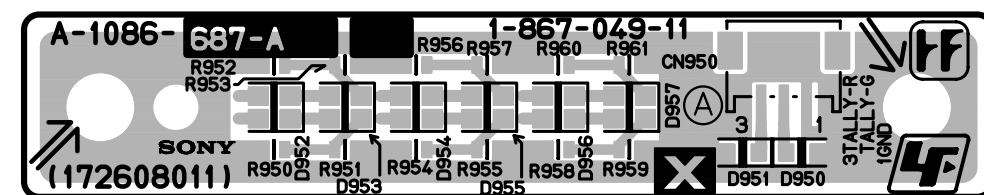
H1, X



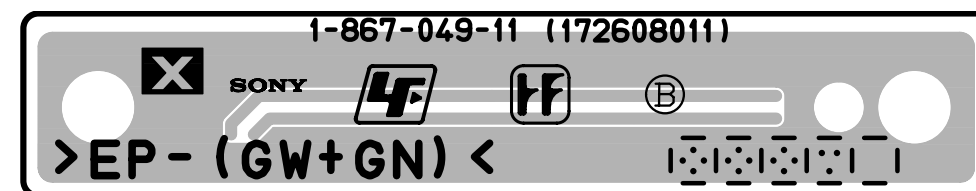
H1 -A SIDE-SUFFIX: -11



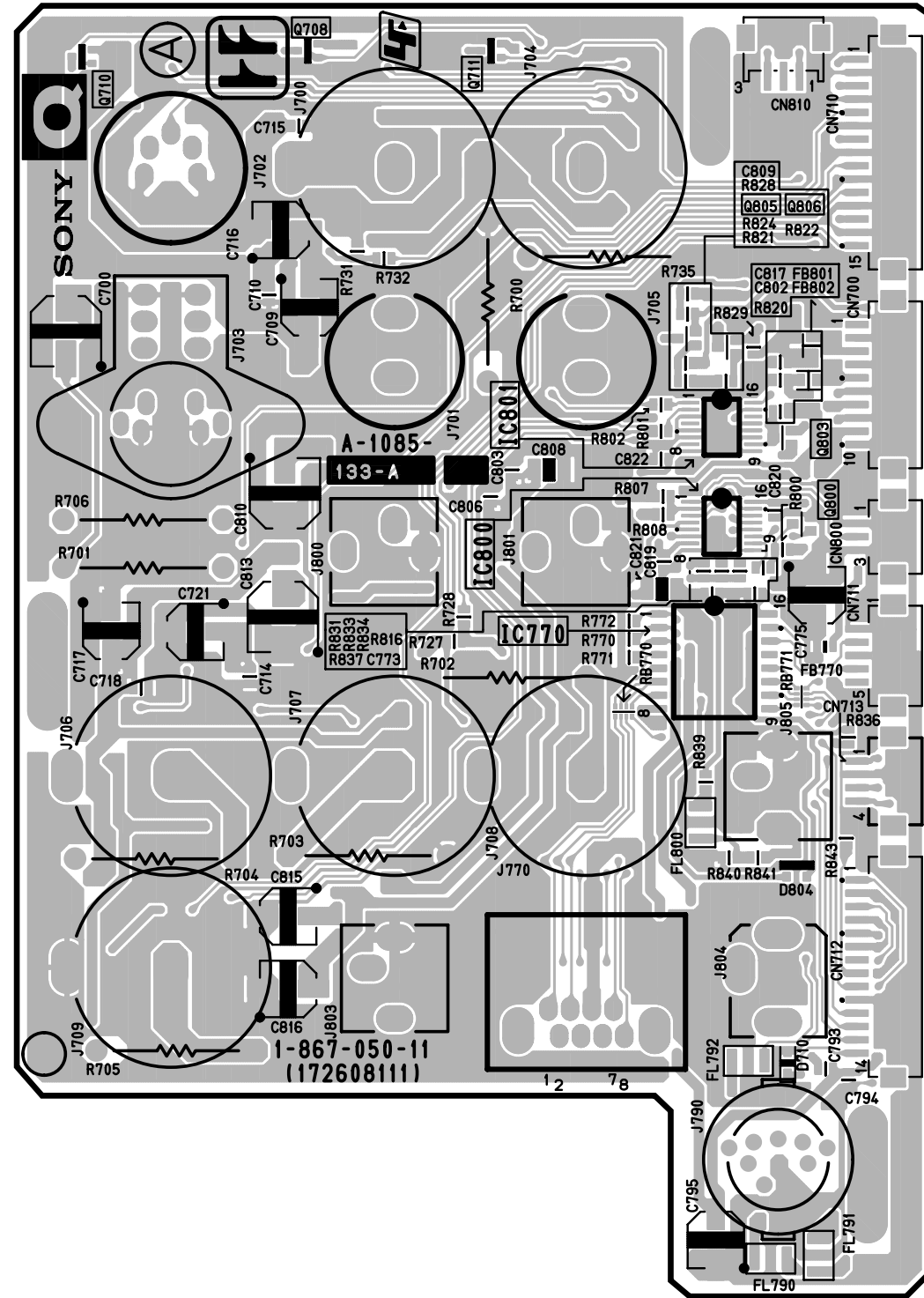
H1 -B SIDE-
SUFFIX: -11



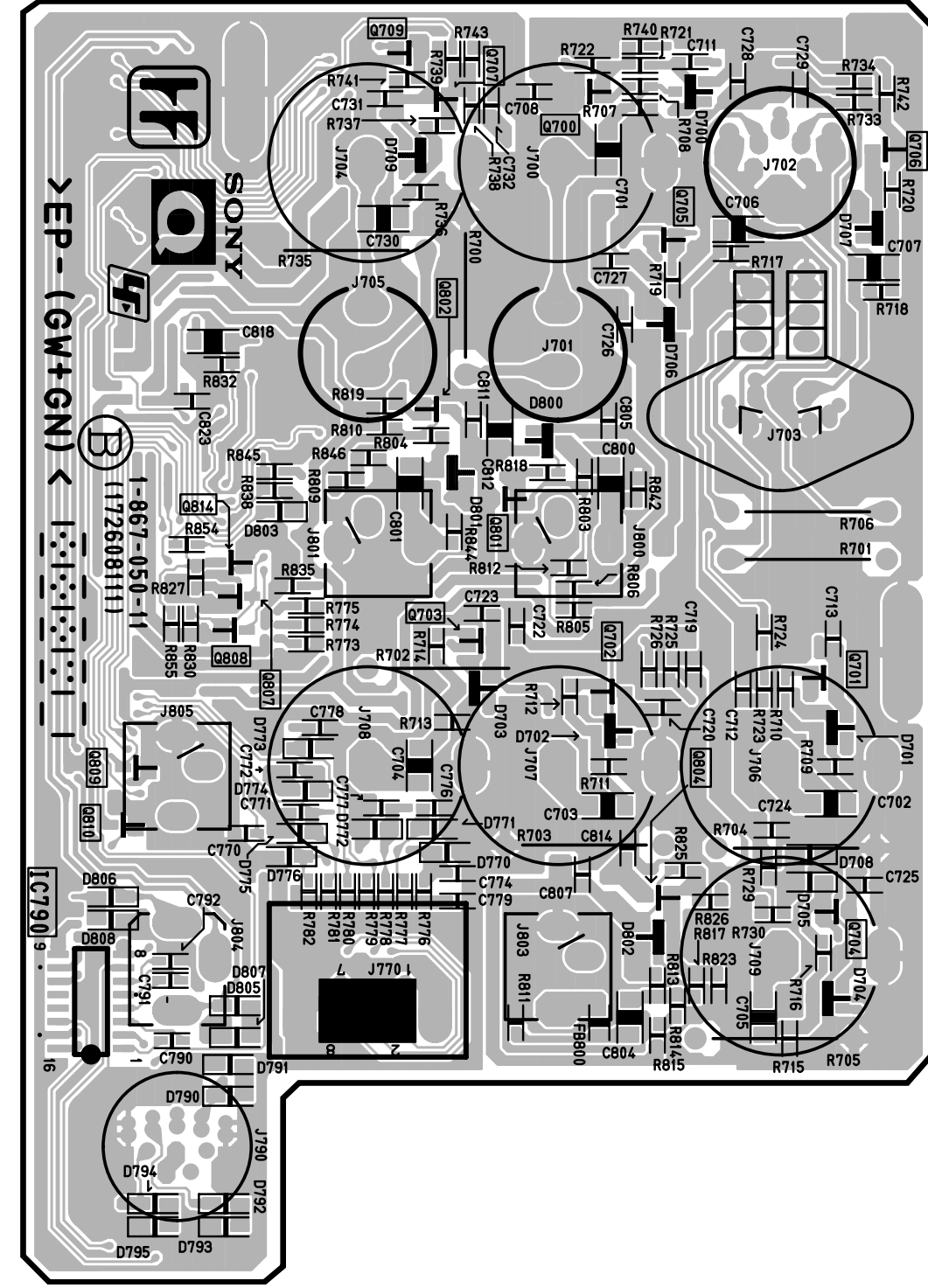
X -A SIDE-SUFFIX: -11



X -B SIDE-
SUFFIX: -11



Q -A SIDE-
SUFFIX: -11



Q -B SIDE-
SUFFIX: -11

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

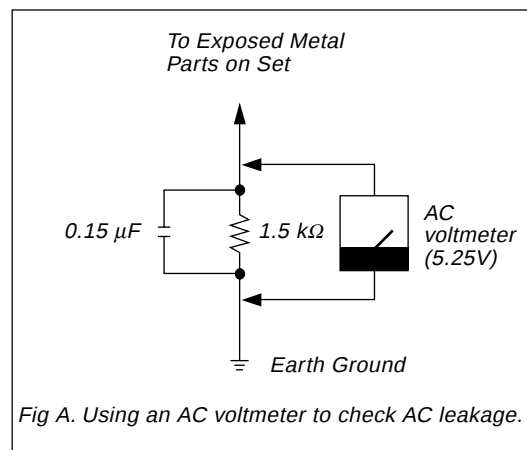


Fig A. Using an AC voltmeter to check AC leakage.

LMD-9050 (SY)
LMD-9030 (SY)
LMD-9020 (SY) E
9-968-139-03

Sony Corporation

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