DENON PROFESSIONAL

Ver. 3

Please refer to the MODIFICATION NOTICE.

# SERVICE MANUAL

| MODEL | JP | E3 | E2 | EK | EA | E1 | E1K | E1C |
|---|---|---|---|---|---|---|---|---|
| MC2000 | ✓ | ✓ | ✓ | | | | | |

## DJ Controller

• For purposes of improvement, specifications and design are subject to change without notice.

• Please use this service manual with referring to the operating instructions without fail.

• Some illustrations using in this service manual are slightly different from the actual set.

D&M Holdings Inc.

S0620-0V03DM/DG1302

# CONTENTS

# SAFETY PRECAUTIONS

The following items should be checked for continued protection of the customer and the service technician.

# LEAKAGE CURRENT CHECK

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.
Be sure to test for leakage current with the AC plug in both polarities, in addition, when the set's power is in each state (on, off and standby mode), if applicable.

**CAUTION** **Please heed the following cautions and instructions during servicing and inspection.**

◎ **Heed the cautions!**

Cautions which are delicate in particular for servicing are labeled on the cabinets, the parts and the chassis, etc. Be sure to heed these cautions and the cautions described in the handling instructions.

◎ **Cautions concerning electric shock!**

(1) An AC voltage is impressed on this set, so if you touch internal metal parts when the set is energized, you may get an electric shock. Avoid getting an electric shock, by using an isolating transformer and wearing gloves when servicing while the set is energized, or by unplugging the power cord when replacing parts, for example.
(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ **Caution concerning disassembly and assembly!**

Through great care is taken when parts were manufactured from sheet metal, there may be burrs on the edges of parts. The burrs could cause injury if fingers are moved across them in some rare cases. Wear gloves to protect your hands.

◎ **Use only designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the ⚠ mark on schematic diagrams and parts lists, be sure to use the designated parts.

◎ **Be sure to mount parts and arrange the wires as they were originally placed!**

For safety seasons, some parts use tapes, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards.
Care is also taken with the positions of the wires by arranging them and using clamps to keep them away from heating and high voltage parts, so be sure to set everything back as it was originally placed.

◎ **Make a safety check after servicing!**

Check that all screws, parts and wires removed or disconnected when servicing have been put back in their original positions, check that no serviced parts have deteriorate the area around. Then make an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)
Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and on the power. Using a 500V insulation resistance tester, check that the insulation resistance value between the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

**CAUTION** **Concerning important safety parts**

Many of the electric and the structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and the use of replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and the parts list in this service manual. Be sure to replace them with the parts which have the designated part number.

(1) Schematic diagrams.....Indicated by the ⚠ mark.
(2) Parts lists.....Indicated by the ⚠ mark.
The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

# NOTE FOR SCHEMATIC DIAGRAM

**WARNING:**

Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

**CAUTION:**

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

**WARNING:**

DO NOT return the set to the customer unless the problem is identified and remedied.

**NOTICE:**

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

# NOTE FOR PARTS LIST

1. Parts indicated by "nsp" on this table cannot be supplied.
2. When ordering a part, make a clear distinction between "1" and "I" (i) to avoid mis-supplying.
3. A part ordered without specifying its part number can not be supplied.
4. Part indicated by "★" mark is not illustrated in the exploded view.
5. General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
6. General-purpose Carbon Chip Resistors are not included are not included in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

**WARNING:** Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

# TECHNICAL SPECIFICATIONS

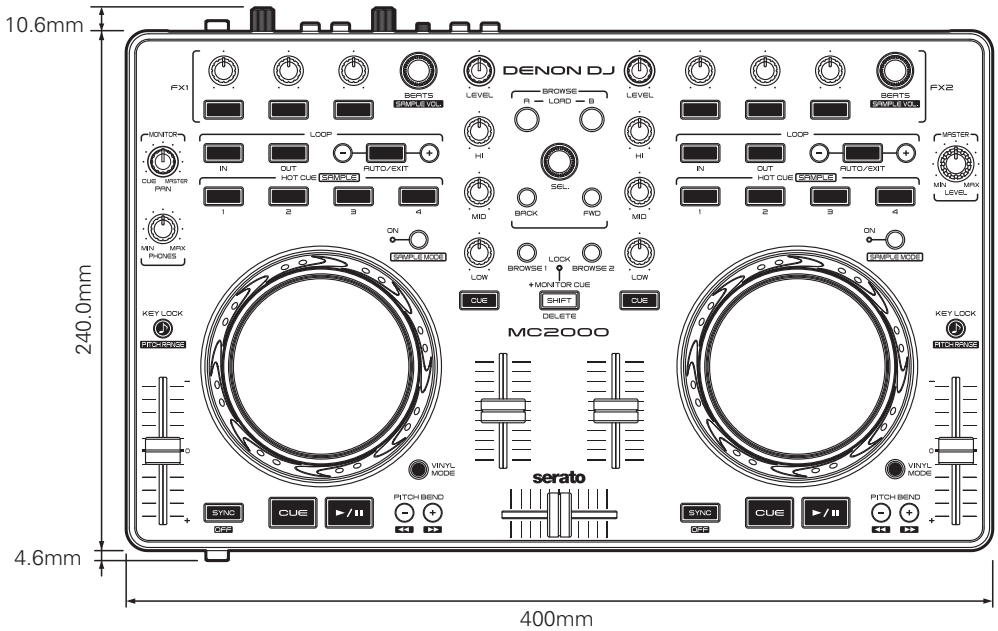
**❑ Audio** (0 dBu=0.775 Vrms, 0 dBV =1 Vrms)

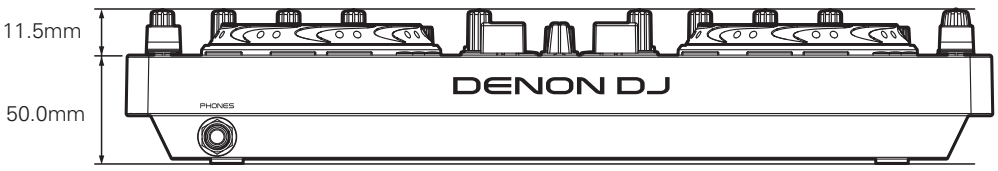
- **LINE inputs** 1 Stereo
  Unbalanced RCA terminal
  - **Input impedance:** 10 kΩ
  - **Level:** 0 dBV
  - **Signal to Noise ratio:** Over 82 dB
- **Microphone inputs** 1 Monaural
  - **Microphone :** Balanced 1/4 in. TRS terminal
    (Tip: hot, Ring: cold, Sleeve: ground)
  - **Input impedance:** 10 kΩ
  - **Level:** –48 – –20 dBu (Unity = –40 dBu)
- **USB AUDIO inputs** 2 Stereo (4 Monaural) 16 bit, Fs: 48 kHz USB B
- **MASTER output**
  - **Unbalanced:** Stereo RCA terminal
  - **Load impedance:** 10 kΩ
  - **Level:** 2.55 dBV (Max +10dBV)
  - **Frequency response:** 20 Hz – 20 kHz (±1 dB)
  - **THD:** Less than 0.05 %
  - **Crosstalk:** Less than –85 dB (1 kHz)
- **Headphone output** Stereo 1/4 in. (1 mm)
  - **Load impedance:** 40 Ω
  - **Level:** Over 50 mW

**❑ General**

- **USB MIDI input/output:** IN: 1ch, OUT: 1ch MIDI 1.0, USB B
- **Channel fader:** PPM 7 Point LED –20 – +10 dB, Peak
- **CH fader:** 45 mm slim type fader
- **Cross fader:** 45 mm fader
- **Power supply voltage:** 5 V (USB Bus Power)
- **Power consumption:** 500 mA
- **Operating temperature:** +5 °C – +35 °C
- **Operating humidity:** 25 % – 85 %
- **Storage temperature:** –20 °C – +60 °C

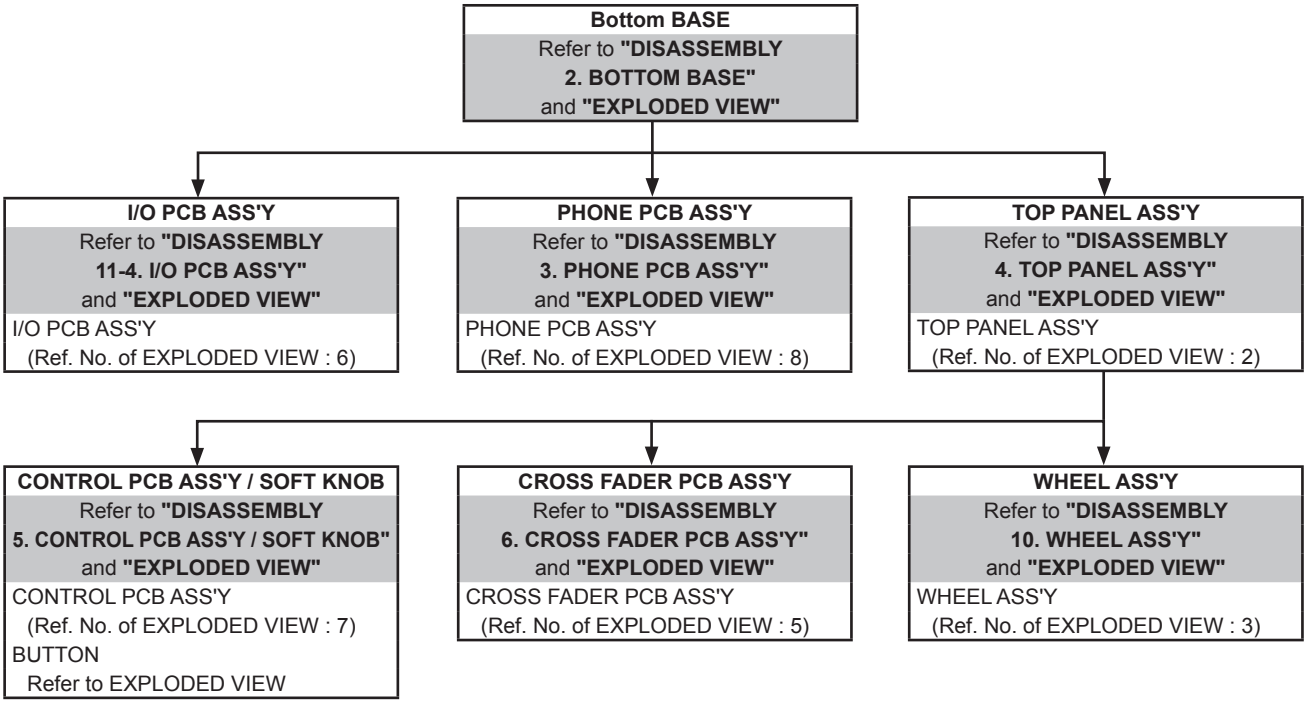
# DIMENSION

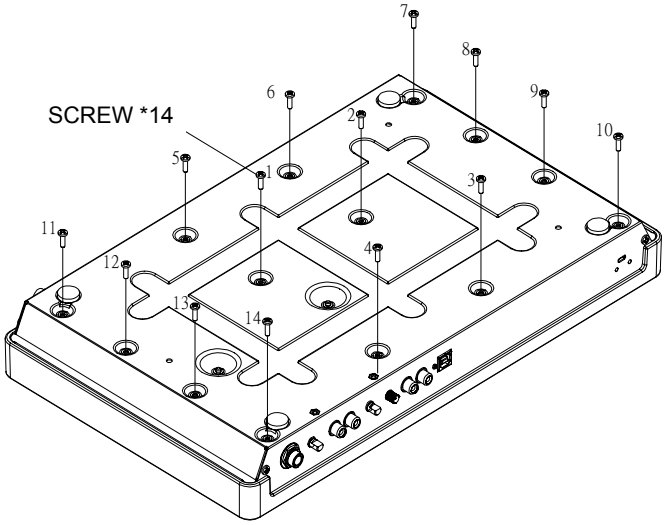
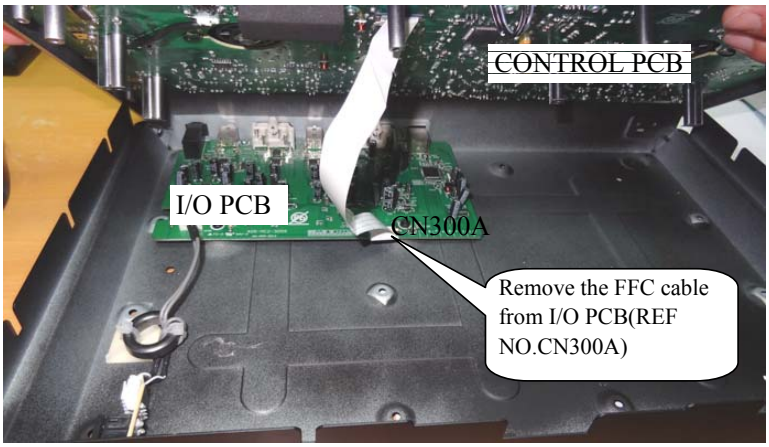


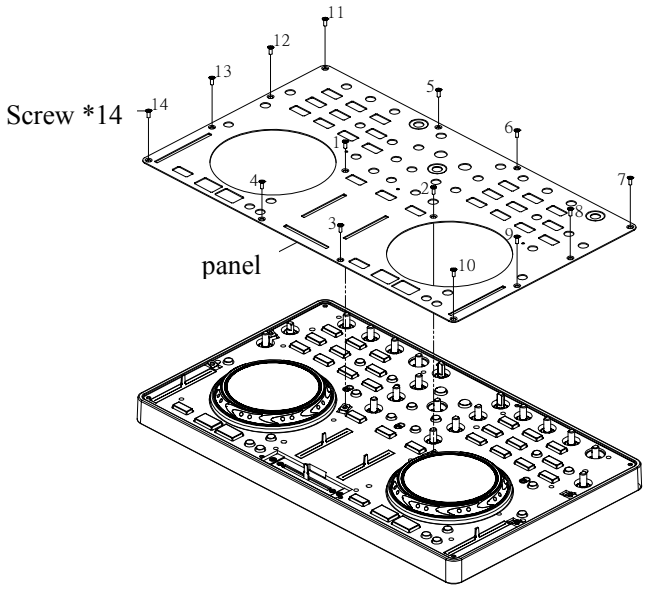
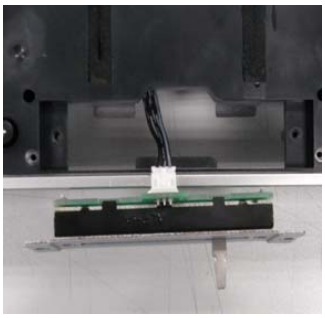
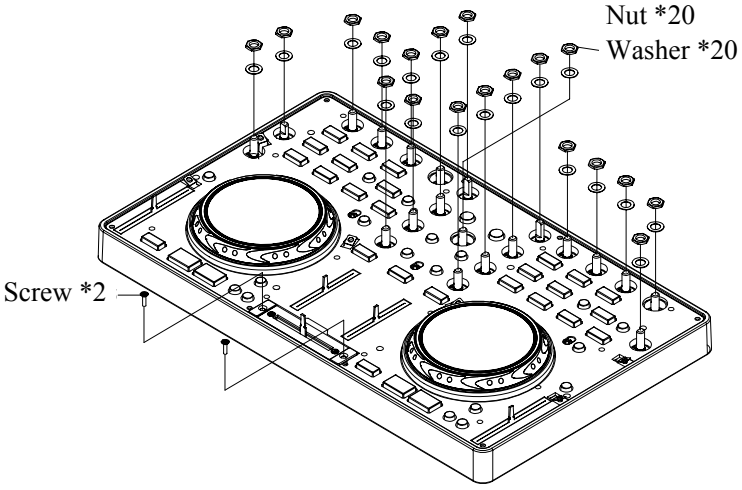



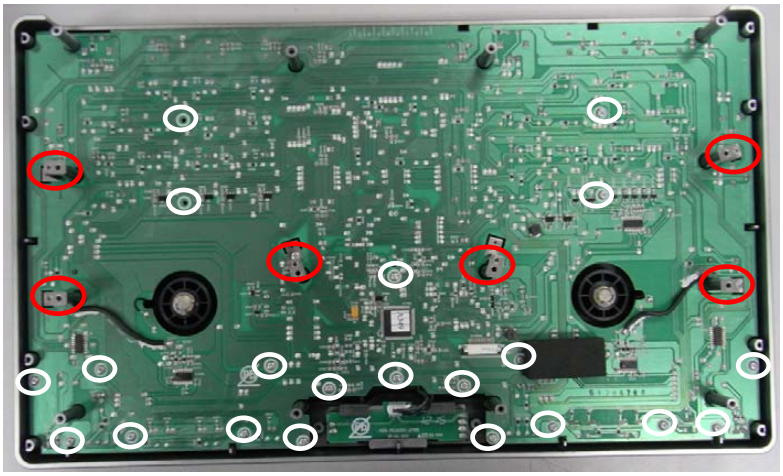
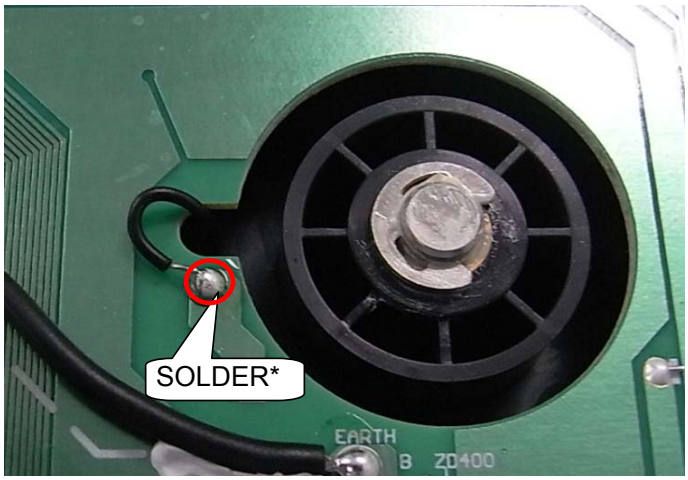
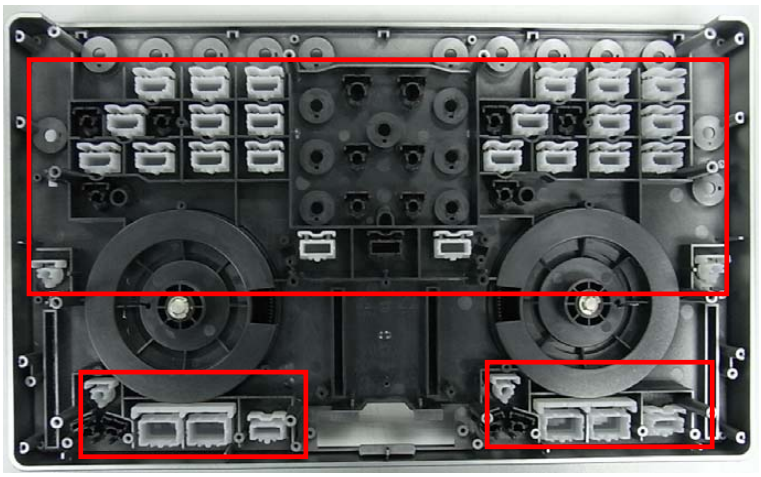
# DISASSEMBLY

- Disassemble in order of the arrow in the following figure.
- In the case of the re-assembling, assemble it in order of the reverse of the following flow.
- In the case of the re-assembling, observe "attention of assembling".
- If wire bundles are untied or moved to perform adjustment or replace parts etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
  Otherwise, incorrect arrangement can be a cause of noise generation.

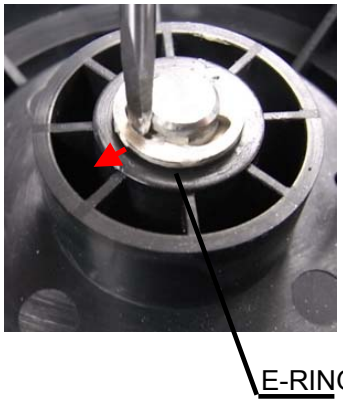


| | |
|---|---|
| 1.Dismantle the packaging, taking out the machine . |  |
| 2. Remove the screws form bottom base . |  |
| 3. Disconnect the FCC cable,then remove the panel from bottom base . |  |

| | |
|---|---|
| 4.Remove the rotary knob *20 and push knob*5 from panel . |  |
| 5.Remove the screws *14 from panel . |   |
| 6-1. Remove the nuts*20 and washer *20 from panel .<br>6-2. Remove the screws *2 from crossfader pcb ass'y .<br>  |   |

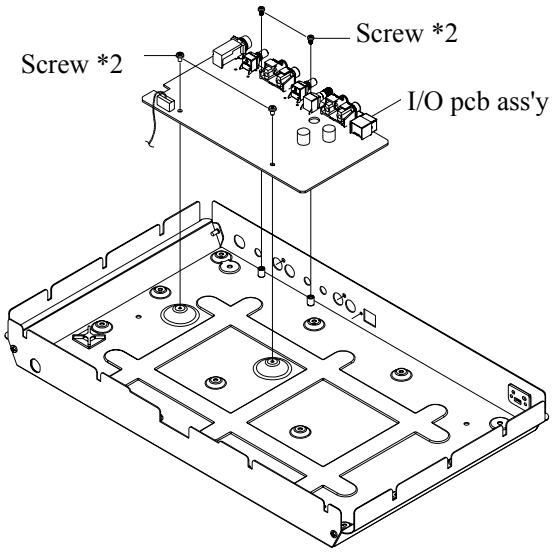
| | |
|---|---|
| 7-1.Remove the screws *21 from control pcb ass'y .<br>7-2.Remove the ground plates *6 and the screws*6 .<br>  |  |
| 8. Remove the solder *2 ,then remove the control pcb ass'y . |  |
| 9.Remove the square buttons and rotary buttons . |  |

10-1.Remove the wheel ass'y*2 .




10-2. Remove the spring & wire ass'y *2 .

11-1. Remove the screws *7 from the bottom base.
11-2. Remove the nut *2 and washer *2 from phone jack.
11-3. Remove the rotary knob(small) *2 .


| | |
|---|---|
| 11-4. Remove the screws *4 from I/O pcb ass'y, then remove the I/O pcb ass'y . |  |
| | |
| | |

# SPECIAL MODE

## 1. Special mode setting

Turns on MC3000 while pressing buttons A, B and C.

| Mode | A | B | C | Contents |
|---|---|---|---|---|
| Version Up mode | 2 | 4 | 6 | Firmware Upgrade |
| Version indicate mode | 1 | 4 | 6 | Firmware version display |
| Adjusting mode of the touch sense sensitivity | 3 | 4 | 5 | Adjust sensitivity of JOG wheel. |
| Initialize mode | 2 | 4 | 5, 6 | Return to factory default setting. |
| MIDI transmission time mode | 1 | 4 | 7 | MIDI command transmission interval time |
| SW, VOLUME, ENCODER and LED TEST | - | - | - | Test of each function. (Use PC) |
| ALL LED ON | 2 | 4 | SEL. | All LED turn on |


## 2. Version Up mode

Version up processing

∗ Refer to "**PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE**" for the procedure of the firmware update. (Refer to 23 page.)

## 3. Version indicate mode

Confirmation of version

Pressing (SHIFT+BROWSE1+FWD) at the same time, then connect MC2000 to a PC for confirmation of F/W version.

### How to read the version number

Firmware Version LED (Ver A.XYZ. After Ver1.000, it is commercial version).

A : LEFT DECK (for commercial version No.)

X, Y, Z : RIGHT DECK

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| **A (LEFT DECK)** | FX1-1 | FX1-2 | FX1-3 | LOOP IN | LOOP OUT | AUTO | HOT CUE 1 | HOT CUE 2 | HOT CUE 3 |
| **X (RIGHT DECK)** | FX2-1 | FX2-2 | FX2-3 | - | - | - | - | - | - |
| **Y (RIGHT DECK)** | LOOP IN | LOOP OUT | AUTO | - | - | - | - | - | - |
| **Z (RIGHT DECK)** | HOT CUE 1 | HOT CUE 2 | HOT CUE 3 | HOT CUE 4 | SYNC | CUE | PLAY | VINYL MODE | - |


**Example** : Ver1.132

DECK A side : FX1-1

DECK B side : FX2-1, LOOP IN, LOOP OUT, AUTO, HOT CUE 1, HOT CUE 2

Seven places of LED turns on.

Press SHIFT to return to normal mode.

## 4. Adjusting mode of the touch sense sensitivity

The unit can control the sensitivity of the touch sensor for the Jog Wheel in 9 steps (-4 to 0 to +4).
"-4" is the lowest sensitivity, and "+4" is the highest sensitivity.
The default setting is "0".

(1) Pressing (SHIFT+LOAD A+LOAD B) at the same time, then connect MC2000 to a PC.
(2) Press CUE, and switch the jog wheel that you want to adjust.
(e.g.) If you press CUE of the left side, only CUE of the left side turns on, and jog wheel of the left deck is chosen to adjust it.
(3) Rotate the track selection knob, and adjust the sensitivity. The button lights according to the set sensitivity.

| Adjust level | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|
| Buttons | HOT CUE 1 | HOT CUE 2 | HOT CUE 3 | LOOP IN | LOOP OUT | AUTO | FX1/2-1 | FX1/2-2 | FX1/2-3 |


(4) Press the track selection knob to memorize adjustment data.
(5) Press SHIFT, then the mode switches back from the sensitivity adjustment mode to the normal mode.

## 5. Initialization of parameters

Return to factory default setting.

(1) Pressing (SHIFT+BACK+FWD+LOAD B) at the same time, then connect MC2000 to a PC .
(2) Return to default setting, and these data (as follows) turn to factory default setting.
Upon completion of the adjustment, it automatically restarts, start in Normal mode.

| Initialize Data | Factory default | Range |
|---|---|---|
| JW transmission interval time | 4ms | 3ms ⇔ 20ms |
| Sensitivity of JOG Wheel | 0 | -4 ⇔ 4 |

## 6. Adjusting interval time of MIDI command transmission

Setting the MIDI command transmission interval time.
Depending on the computer specifications and OS type, the computer may not be able to receive the MIDI commands transmitted from this unit correctly.
In this case, use the following operation to set the MIDI command transmission interval time to a suitable value.

(1) Pressing (SHIFT+BROWSE1 +BROWSE2) at the same time, then connect MC2000 to a PC .
The following LED turns on, and the unit switches to the setting mode for MIDI command transmission interval time.
(2) Rotate SEL..
The relationship between LED display position and the MIDI command transmission interval time is as shown in the diagram as follows. The factory setting is 4 msec.
(3) Press SEL..
The MIDI command transmission interval time is entered.
(4) Press SHIFT.
The settings are completed, and unit exits the setting mode.

How to read the interval time

| Interval time [ms] | - | - | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| LEFT DECK | HOT CUE 1 | HOT CUE 2 | HOT CUE 3 | HOT CUE 4 | LOOP IN | LOOP OUT | AUTO | FX1-1 | FX1-2 | FX1-3 |

| Interval time [ms] | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| RIGHT DECK | HOT CUE 1 | HOT CUE 2 | HOT CUE 3 | HOT CUE 4 | LOOP IN | LOOP OUT | AUTO | FX2-1 | FX2-2 | FX2-3 |


**Example** : 13ms
LEFT DECK : HOT CUE1-4, LOOP IN, LOOP OUT, AUTO, FX1-1 ~ FX1~3
RIGHT DECK : HOT CUE1-3
13 places of LED turns on.

Press [SHIFT] to return to Normal Mode.

# 7. SW, VOLUME, ENCODER and LED TEST

Operating check procedure for the SW/VOLUME/ENCODER and LEDs on this unit with MIDI-OX.

## [1] MIDI-OX Installation and Settings

Install MIDI-OX on the PC, and configure the PC environment.

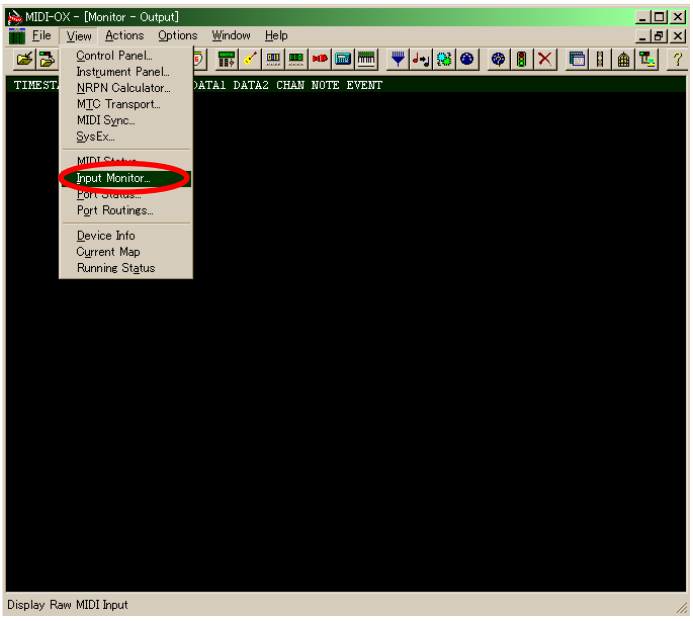
(1) Download MIDI-OX (freeware).
Download from the URL below.
URL: www.midiox.com/

(2) Install MIDI-OX on the PC.

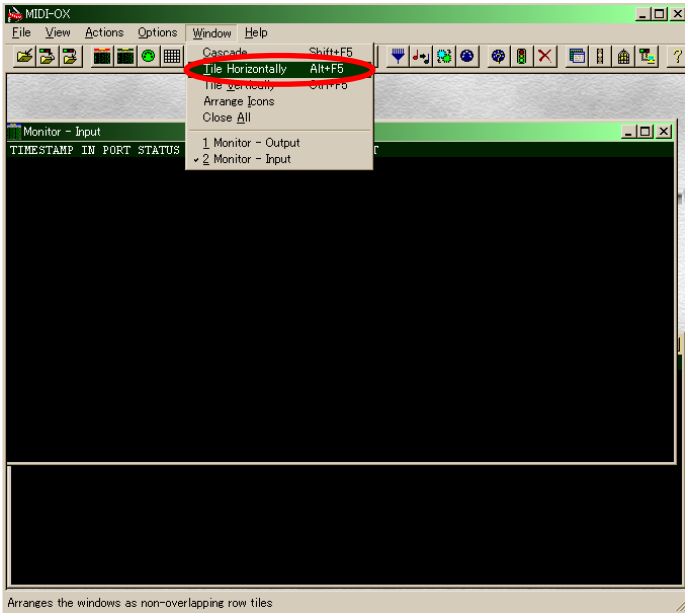
(3) Connect this unit to the PC, and switch the power on.

(4) Start MIDI-OX that you installed on the PC.

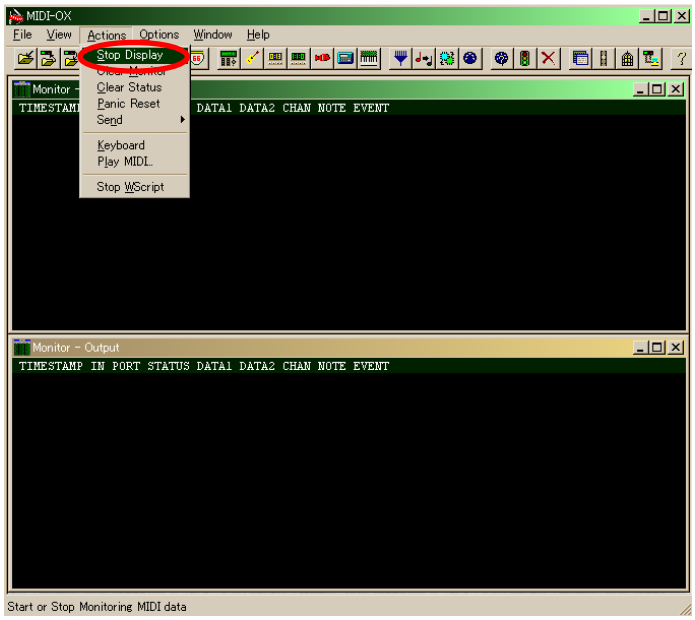
(5) In MIDI-OX, select [View] menu - [Input Monitor].




(6) Select [Window] menu - [Tile Horizontally].



(7) Open the [Actions] menu and check that “Stop Display” is shown.
If “Start Display” is shown, click “Start Display” so that “Stop Display” is shown.

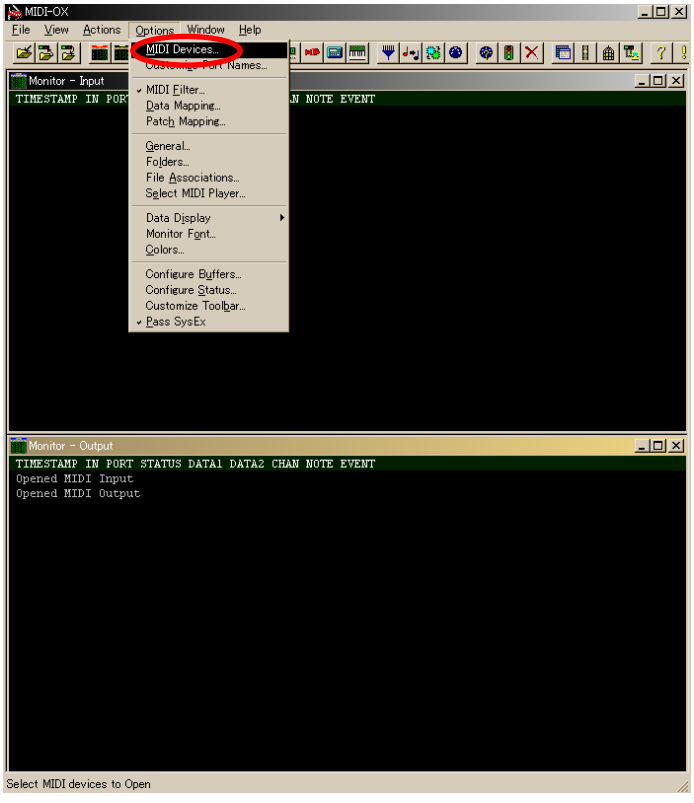



## [2] Check the SW/VOLUME/ENCODER

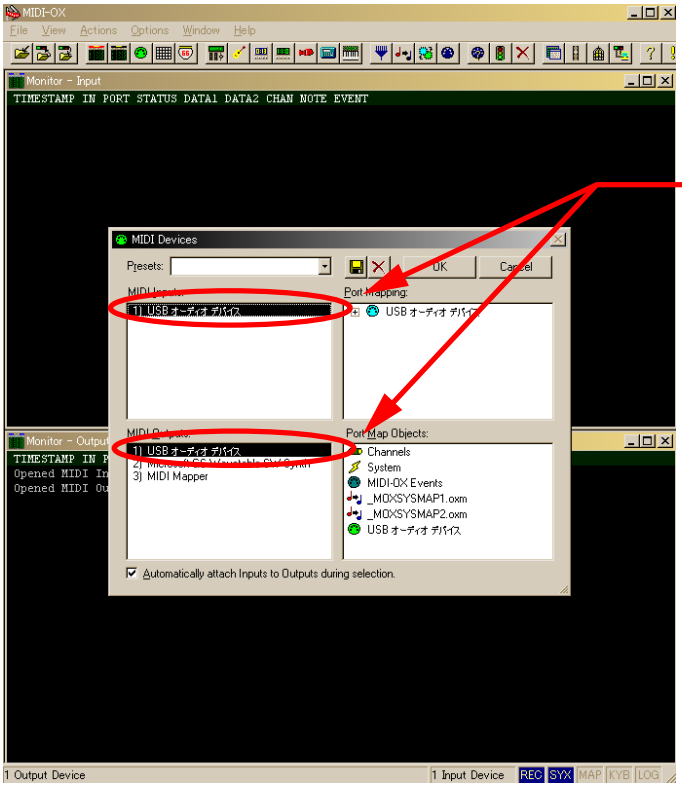
When SW/VOLUME/ENCODER is operated on this unit, the corresponding MIDI command is shown on MIDI-OX.

If the MIDI command is not shown on MIDI-OX even when the panel of this unit is operated, check the following.

(1) Select [Options] menu - [MIDI Device].



(2) Check whether the USB audio device is selected.

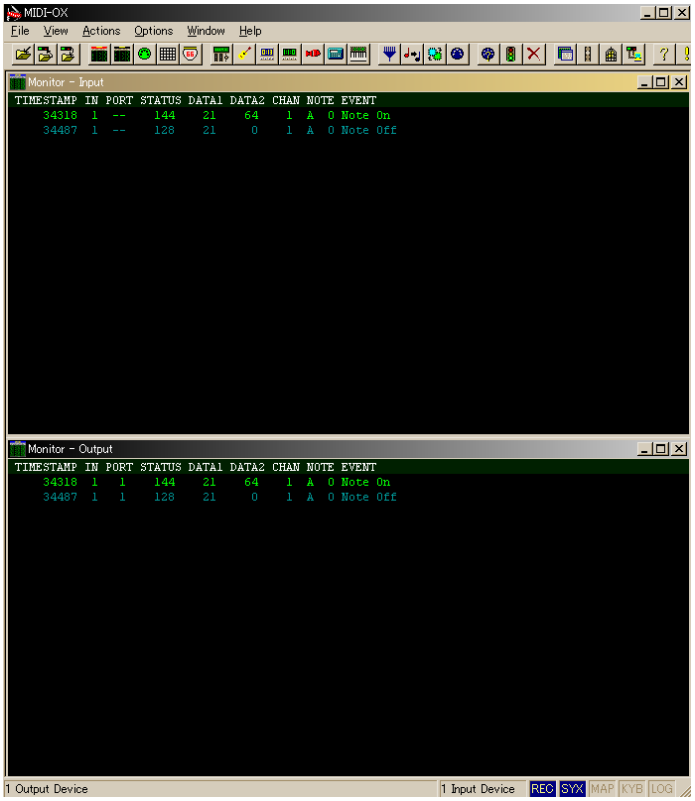



Check that it is highlighted black.
If it is not highlighted, select it
so that it is highlighted black.

(3) Screen display when the EFX.1 button on this unit is switched ON-OFF.

| Pressed button | DATA1 column display |
|---|---|
| EFX.1 | 21 |

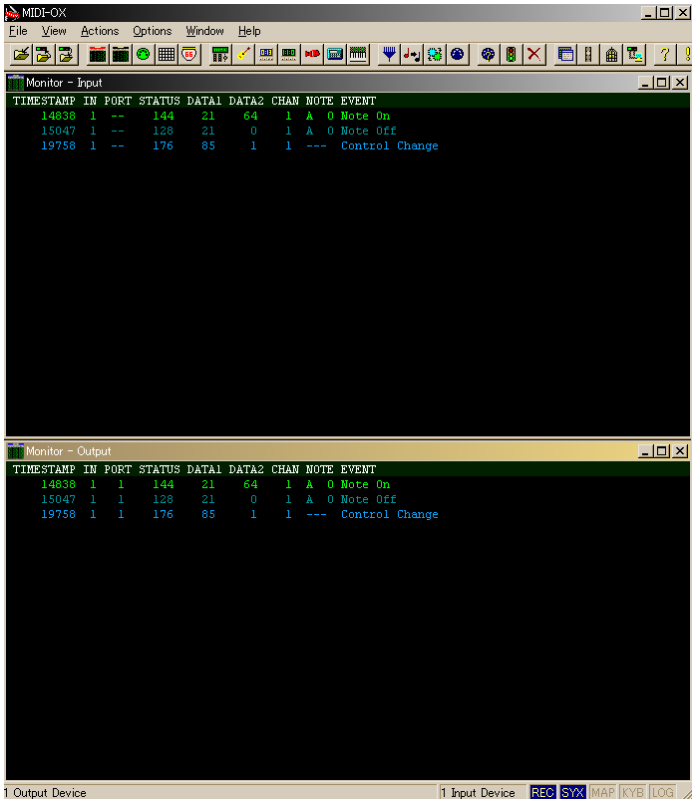
For details on the correspondence between operation on this unit and the contents of the screen display, see the "MIDI command list" in the instruction manual.



(4) Next, this is the screen display when the EFX.1 knob is moved either to the left or right.

| Operated knob | DATA1 column display |
|---|---|
| EFX.1 | 85 |

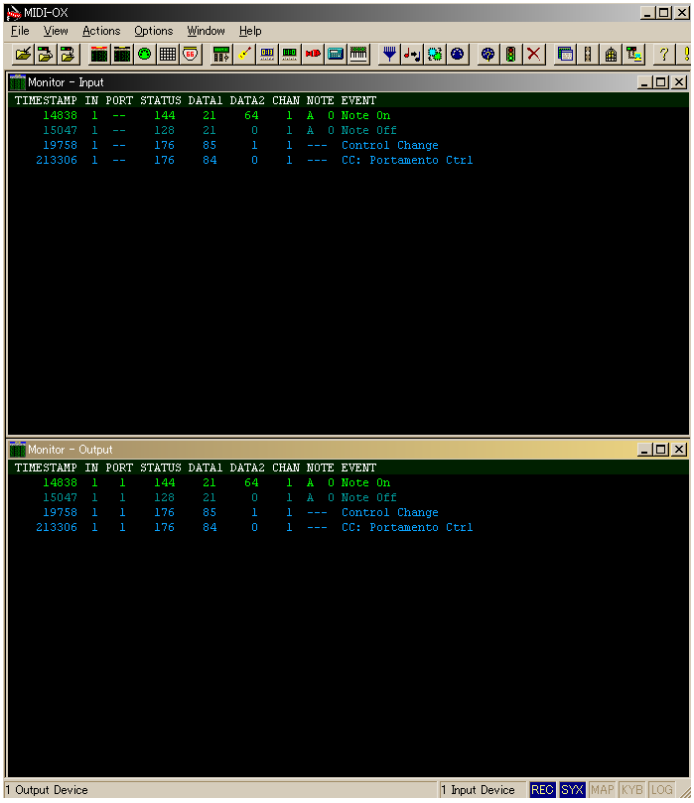
For details on the correspondence between operation on this unit and the contents of the screen display, see the "MIDI command list" in the instruction manual.




(5) Next, this is the screen display when the TRACK SELECT knob on the unit is moved 1click to the right.

| Operated knob | DATA1 column display |
|---|---|
| TRACK SELECT | 84 |

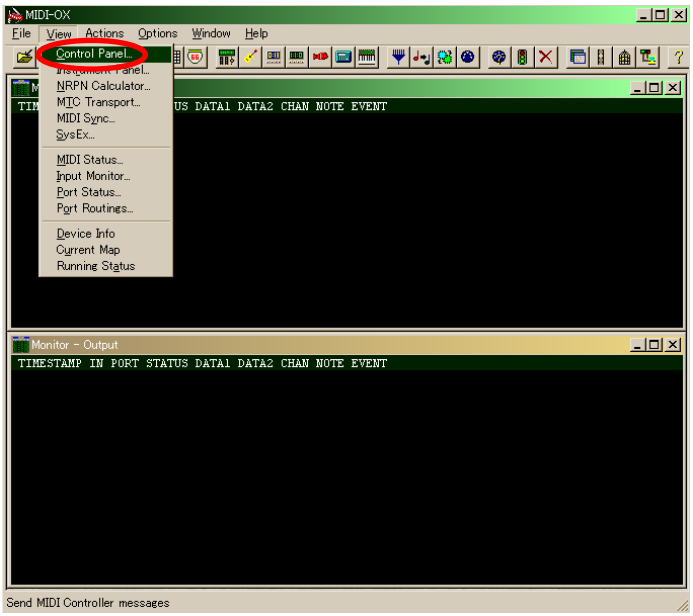
For details on the correspondence between operation on this unit and the contents of the screen display, see the "MIDI command list" in the instruction manual.



## [3] Check the LED

When the MIDI command is sent from MIDI-OX, the LED lights/flashes/off/Dimmer.

(1) Select [View] menu - [Control Panel].



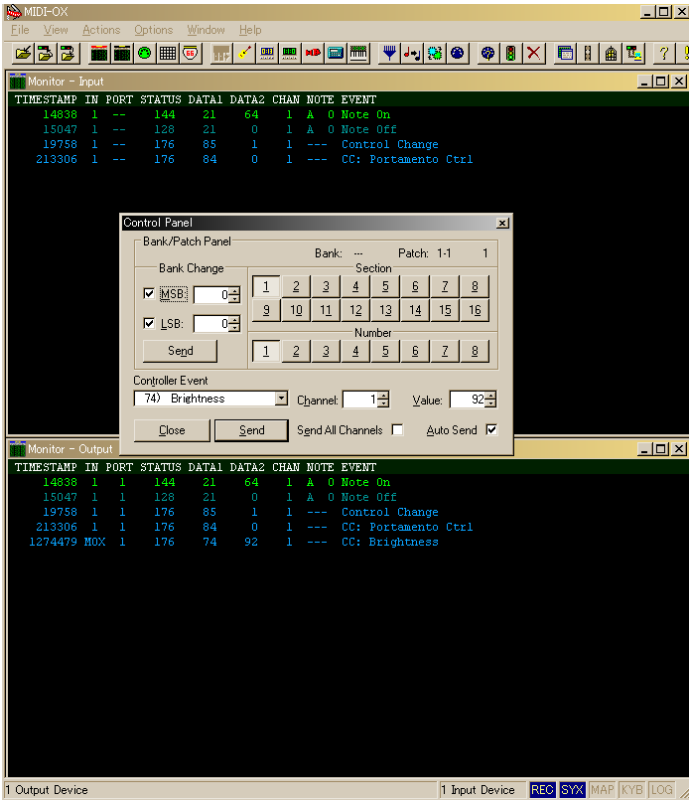

(2) These are explained in order of LED lights/off/flashes/Dimmer.

**Example1** : When lighting the EFX.1 button on DECK A

In the MIDI-OX Control Panel, set the following parameters.

| Control Event | Channel | Value |
|---|---|---|
| 74) Brightness | 1 | 92 |

When the Enter button on the PC keyboard is pressed, the EFX.1 button on the unit lights.

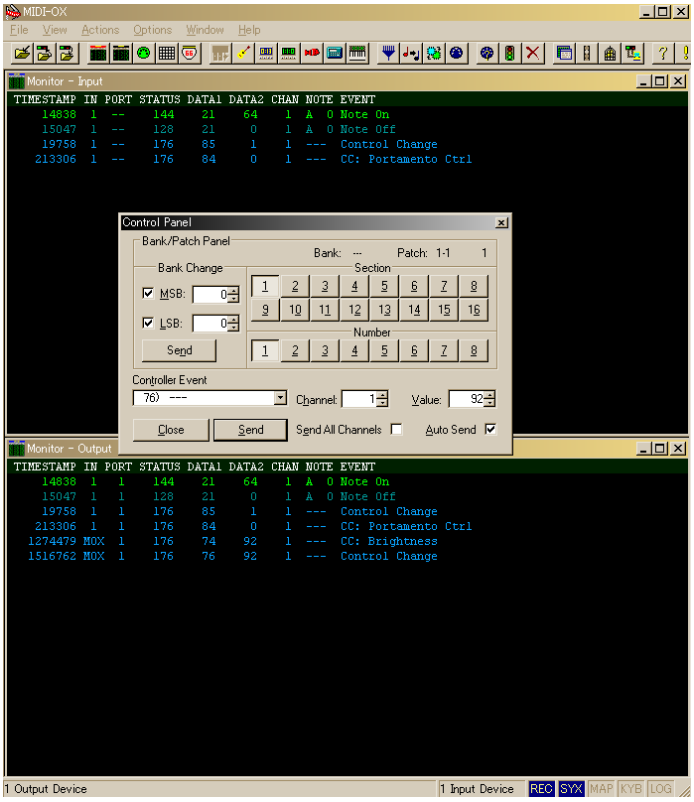


**Example2** : When flashing the EFX.1 button on DECK A

In the MIDI-OX Control Panel, set the following parameters.

| Control Event | Channel | Value |
|---|---|---|
| 76) --- | 1 | 92 |

When the Enter button on the PC keyboard is pressed, the EFX.1 button on the unit flashes.

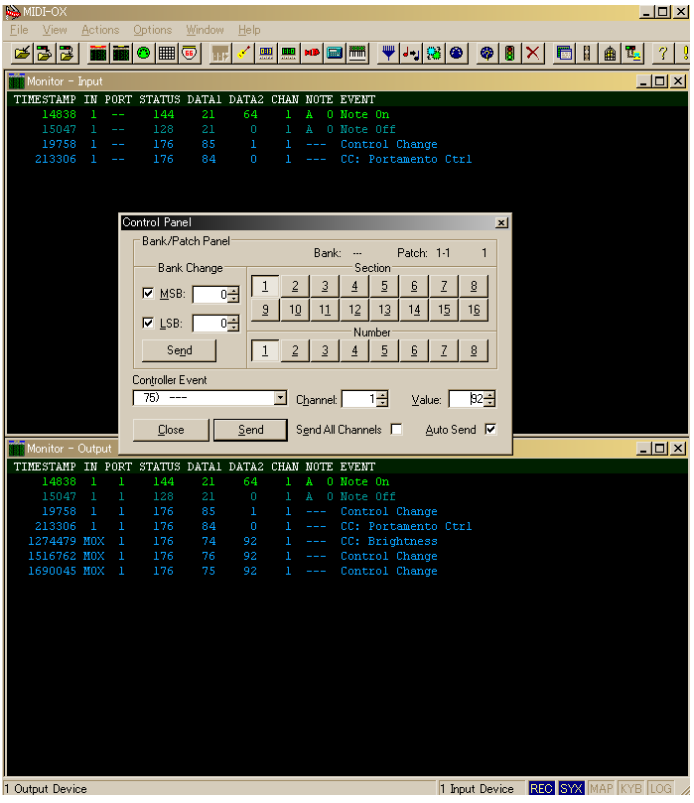



**Example3** : When off the EFX.1 button on DECK A

In the MIDI-OX Control Panel, set the following parameters.

| Control Event | Channel | Value |
|---|---|---|
| 75) -- | 1 | 92 |

When the Enter button on the PC keyboard is pressed, the EFX.1 button on the unit off.

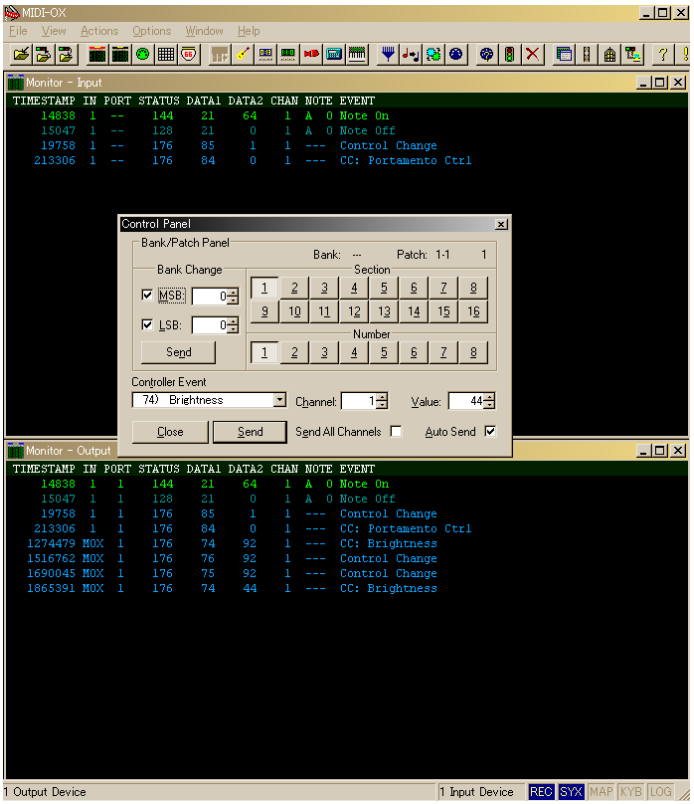


**Example4** : When dimming the EFX.1 button on DECK A

In the MIDI-OX Control Panel, set the following parameters.

| Control Event | Channel | Value |
|---|---|---|
| 74) Brightness | 1 | 44 |

When the Enter button on the PC keyboard is pressed, the EFX.1 button on the unit dims.




※ Some of the LEDs such as those for Meter or Ducking use the following parameters to light/switch off.

| | Control Event |
|---|---|
| Light | 80) --- |
| Off | 81) --- |

For details, see the “MIDI command list” in the instruction manual.

# WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

When the U-PRO (Microprocessor) or the Flash ROM is replaced, confirm the following.

| PWB Name | Ref. No. | Description | After replaced | Remark |
|---|---|---|---|---|
| CONTROL | IC400 | STM8S207M8T6 | B | 704-MC2000-A349 |

After replacing

**A** : Mask ROM (With software). No need for write-in of software to the microprocessor.

**B** : Flash ROM (With software). Usually, no need for write-in of software. But, when the software was updated, you should write the new software on the microprocessor or flash ROM. Please check the software version.

**C** : Empty Flash ROM (Without software). You should write the software on the microprocessor or flash ROM. Refer to "Update procedure" or "writing procedure", when you write the software.

# PROCEDURE FOR UPGRADING THE VERSION OF THE FIRMWARE

## 1. preparation

(1) Connect the computer by USB cable.
MC2000 : Type B

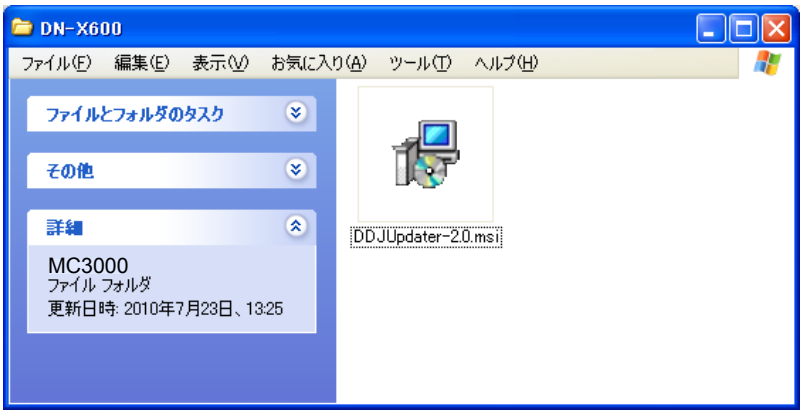
(2) UPDATER
Dowload Dennon SDI site.
for Windows : DDJUpdater-2.0.msi
for Mac : DDJ Updater.app

(3) Latest Firmware
Dowload Dennon SDI site.
file : MC2000_vX.XXX.bin
(XXXX : Ver. No.)

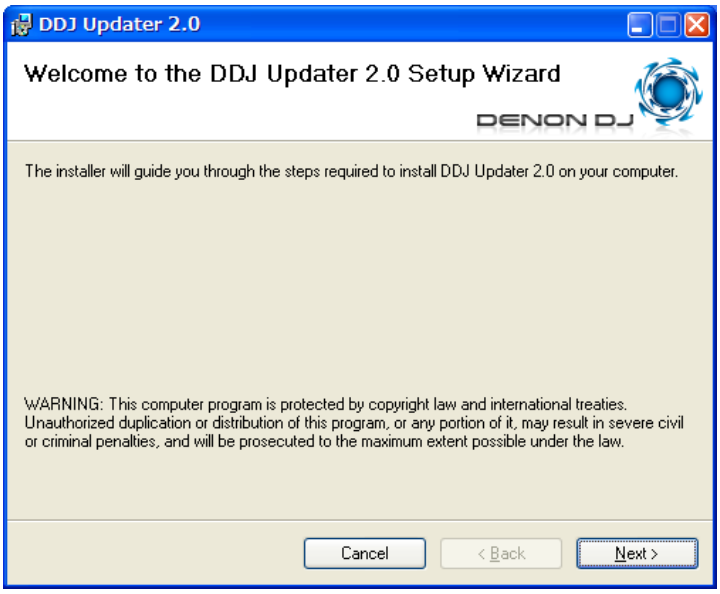
## 2. Installing the firmware update program for Windows

※ Upgrade program for Macintosh is installed on your Mac by copied the DDJ Updater.app.

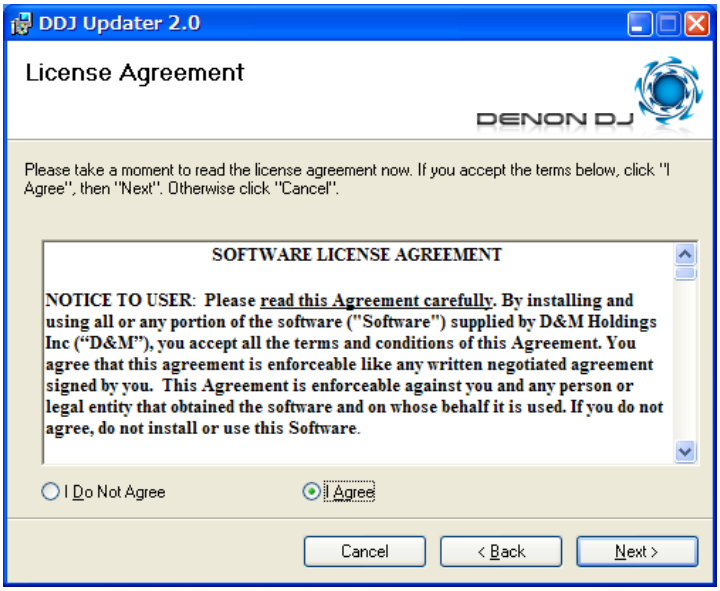
(1) Double click the DDJUpdater-2.0.msi



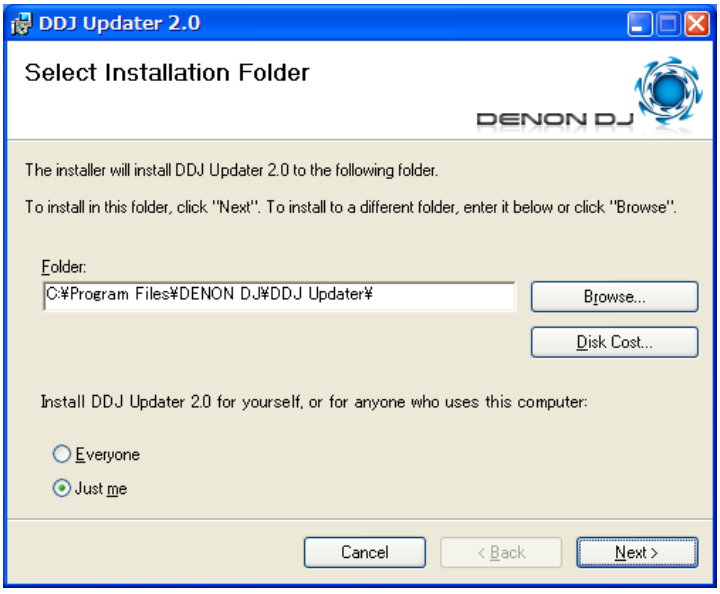
(2) Click the Next.



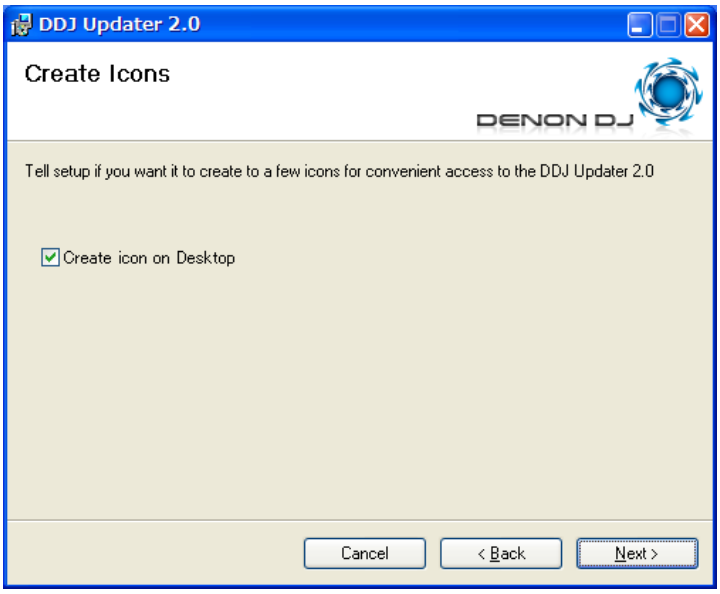

(3) Check the I accept the terms of the license agreement,and Click the Next.



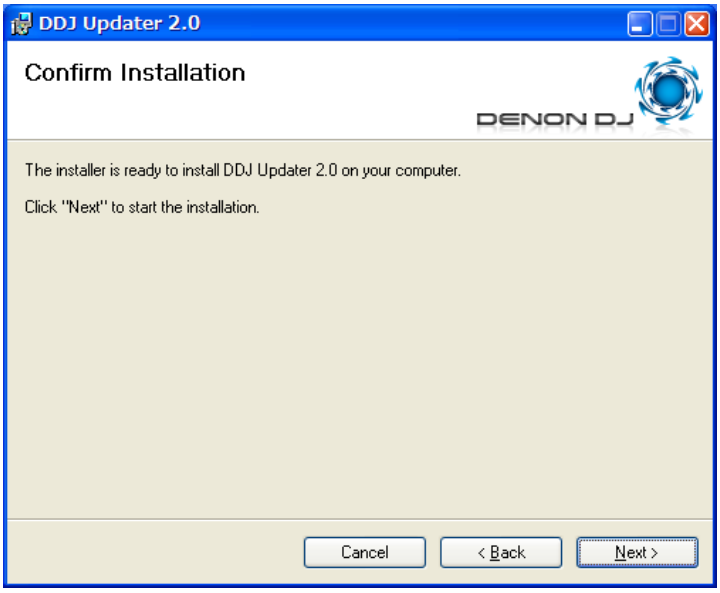

(4) Click the Next.



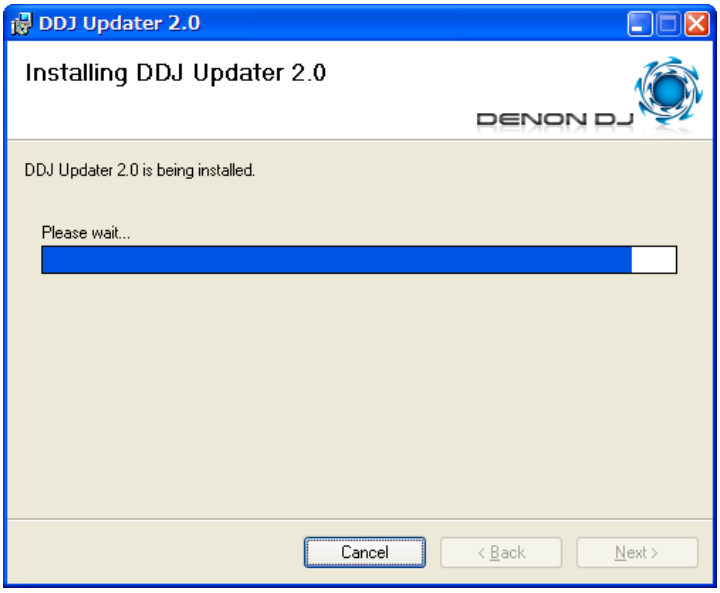
(5) Click the Next.



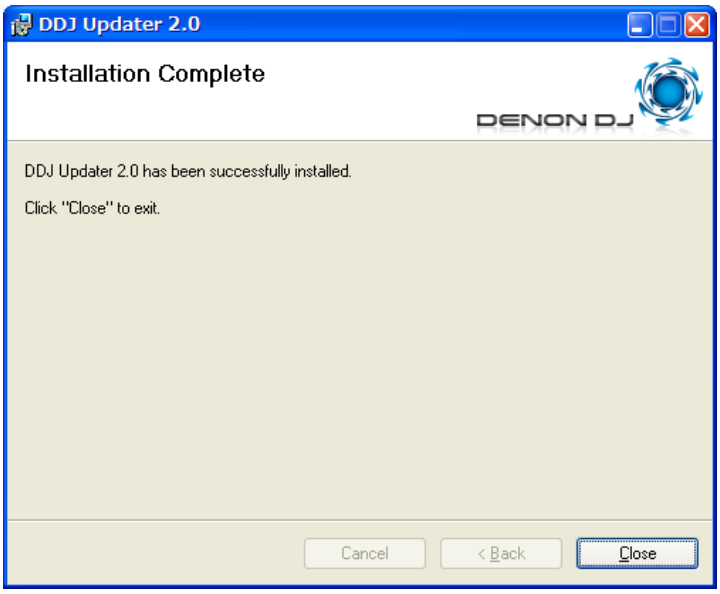

(6) Click the Next.




(7) The Setup Status bar appears.



(8) Click the Close.




### 3. Update Firmware

**[Caution]**

During the loading and upgrading the power OFF and set, PC or please do not remove the cable connection.
Also, please press the button of a keyboard and computer sets.

(1) Connect the USB cable from PC to the unit.
(2) Press the POWER button to turn on while pressing buttons BACK, FWD and SHIFT.
(3) MC2000 will enter versionup mode. CUE 1 will light.
(4) Run the "DDJ Updater" on desktop of PC.

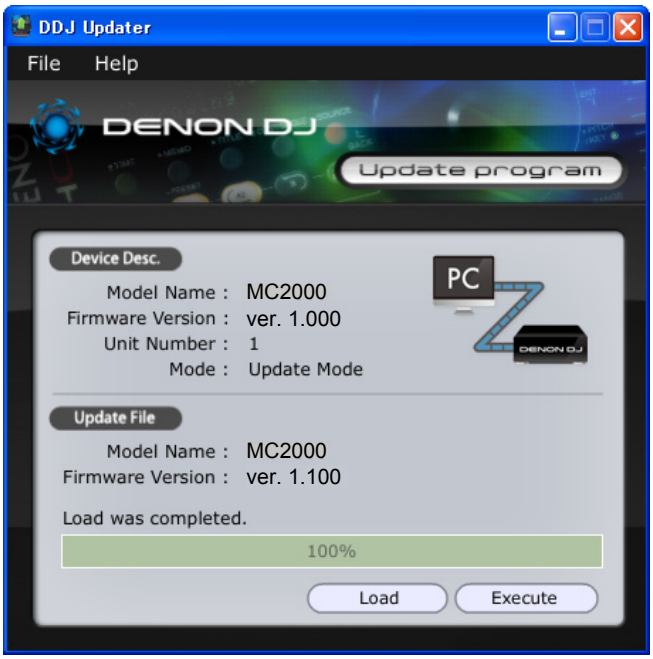
(5) Click the File menu. And click the Open. Select the latest firmware.


(6) Click the Load.

(7) The Setup Status bar appears.

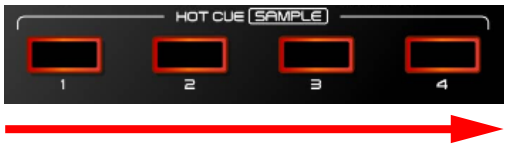

(8) Click the OK.

(9) Click the Execute.




(10) The Setup Status bar appears.


MC2000 indicates state of updating.




CUE 1: Update Ready, CUE 2: Update Data(0%),
CUE 3: Update Data(50%), CUE 4: Update Data(100%)

(11) Click the OK.

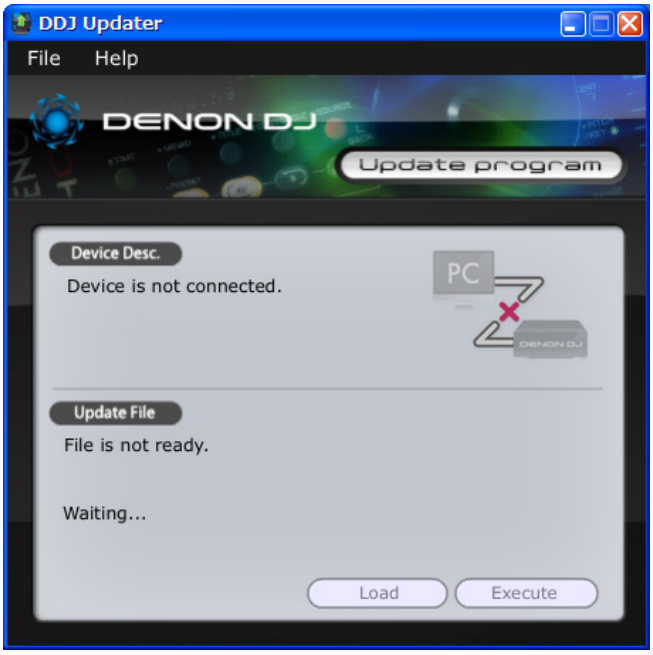

(12) When version up finished, this unit is usual mode automatically.

Failure to upgrade to the PC "Version up was not completed." is displayed.
Then "Execute" click again.

## 4. Error message & trabuleshooting

| Message | Solution |
|---|---|
| File is invalid. | Please select the update file for this unit. |
| Load failed. Check the connection, and retry | Please try again step (1). |
| Loaded data is invalid. Check the file | Please select the update file for this unit. |
| Version up was not completed | Please try again step (1). |

(1) Unit is not connected or if the unit is not upgraded mode as shown below. Please try again step (1).



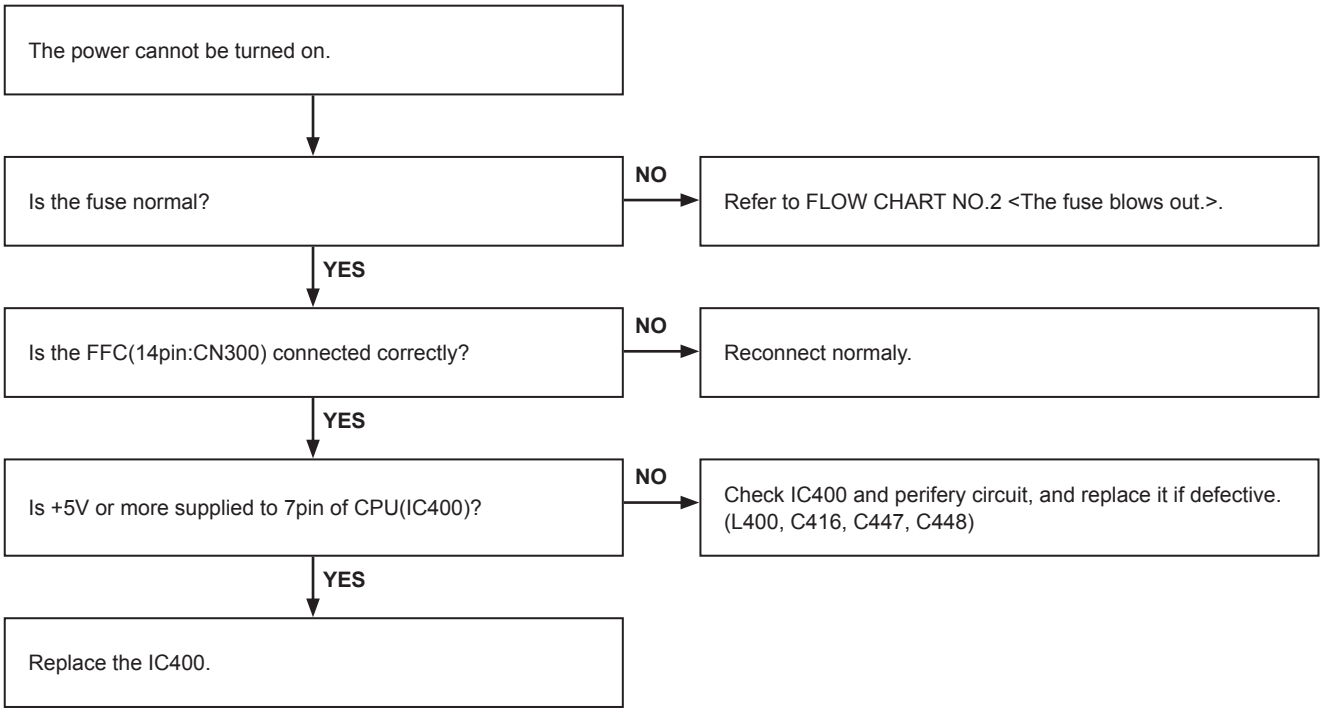

(2) If the file version is not loaded "File is not ready." Is displayed. Please try again step (5).


**[Caution]**

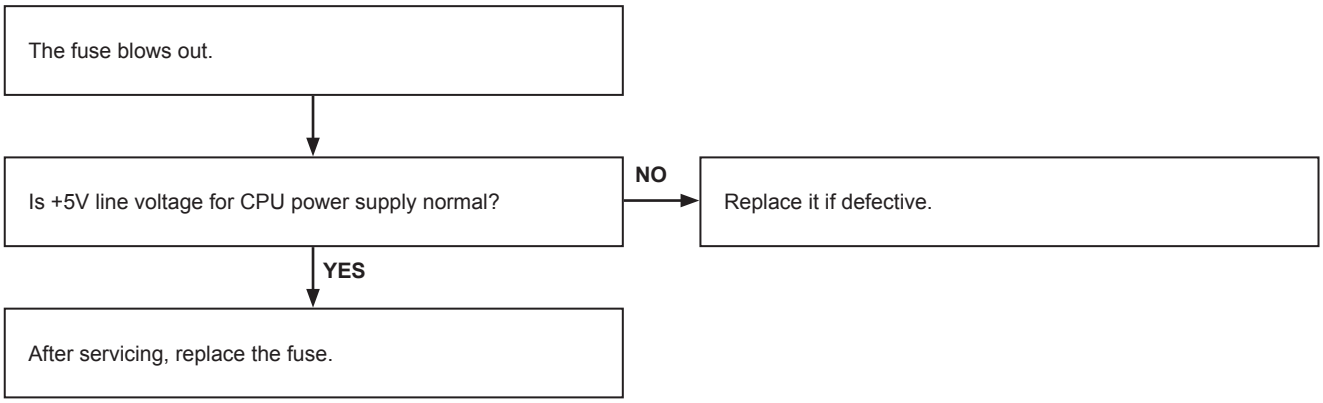
During the loading and upgrading the power OFF and set, PC or please do not remove the cable connection. Also, please press the button of a keyboard and computer sets.

# TROUBLE SHOOTING

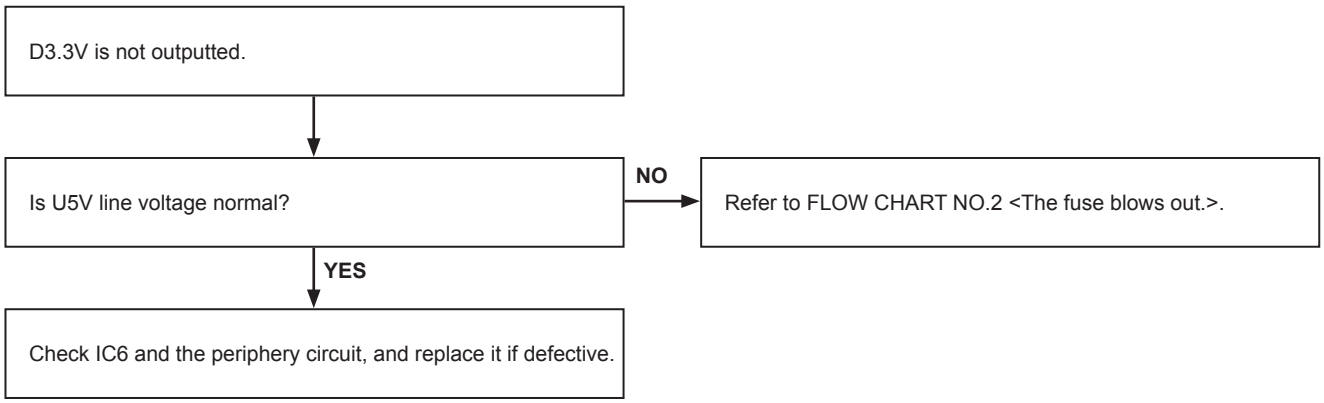
## FLOW CHART NO.1 (405-MC2-3059 : I/O UNIT)



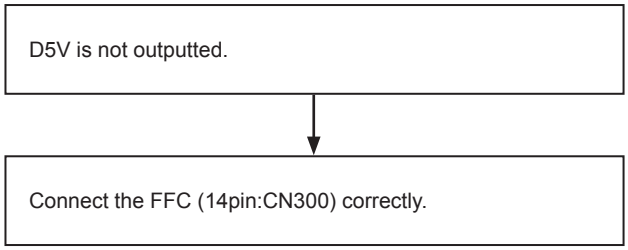

## FLOW CHART NO.2 (405-MC2-3059 : I/O UNIT)



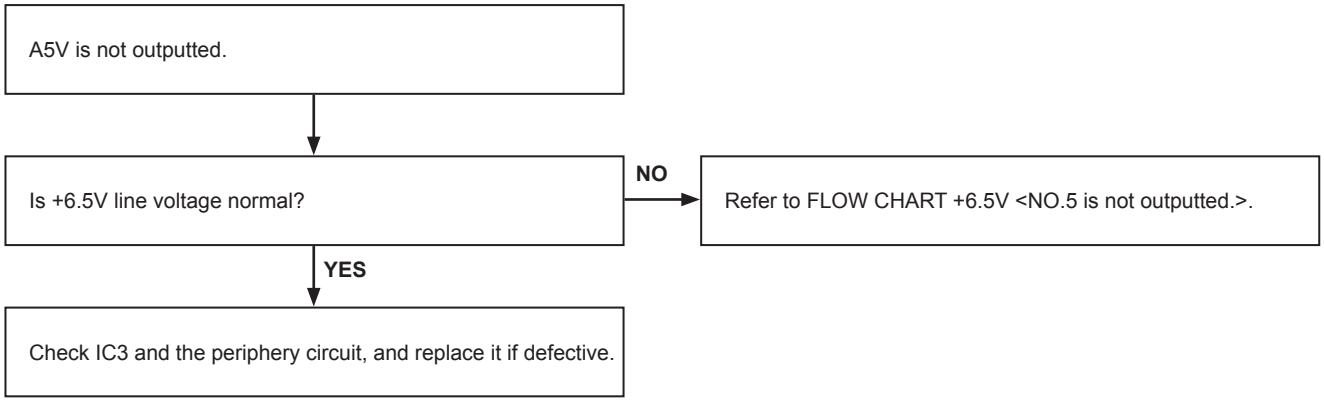
## FLOW CHART NO.3 (405-MC2-3059 : I/O UNIT)



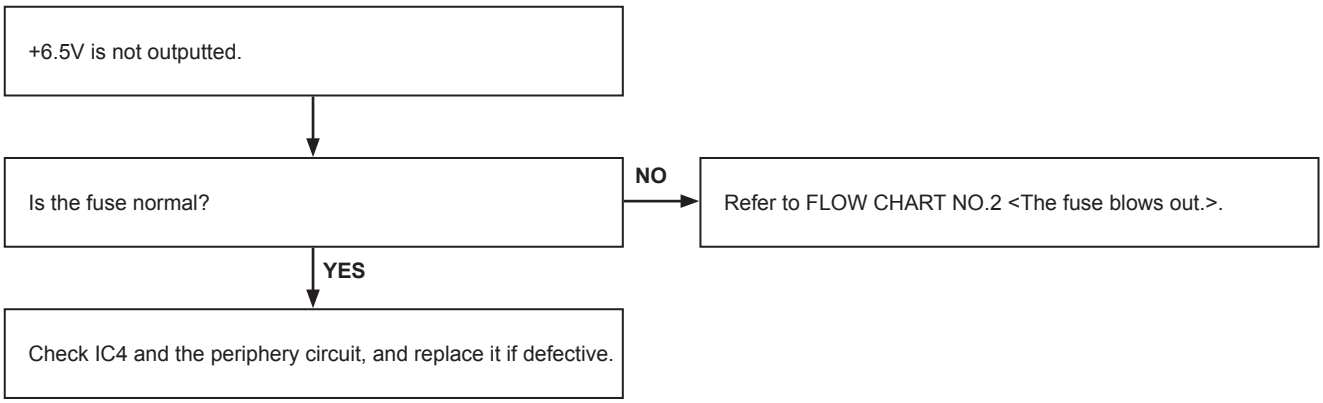

## FLOW CHART NO.4 (405-MC2-3058 : CONTROL UNIT)



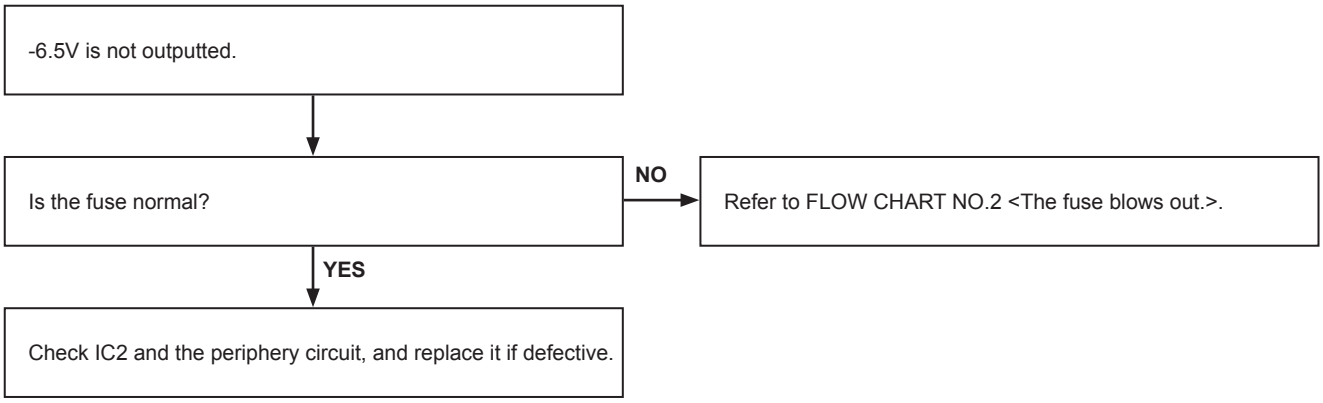

## FLOW CHART NO.5 (405-MC2-3059 : I/O UNIT)



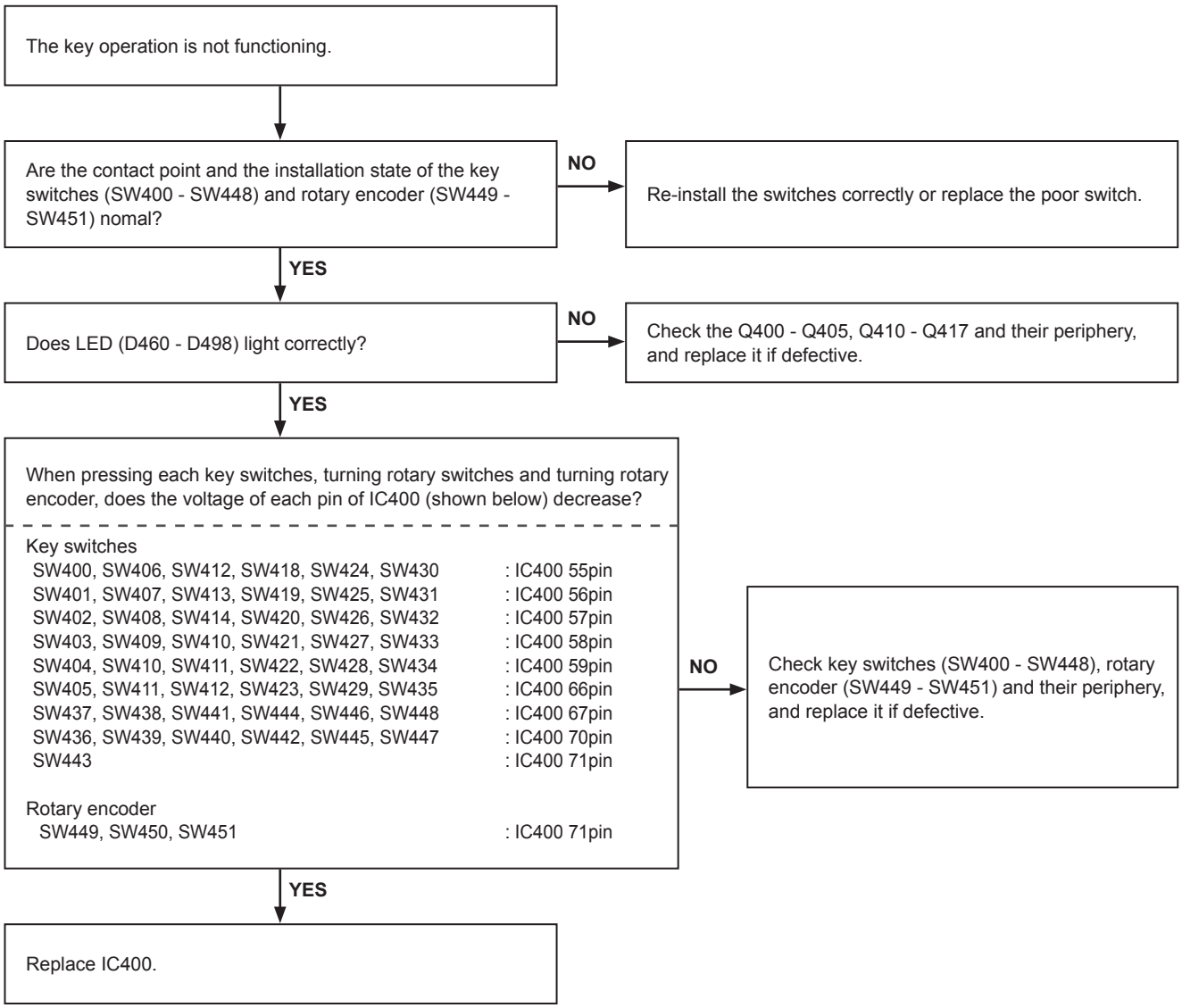
## FLOW CHART NO.6 (405-MC2-3059 : I/O UNIT)



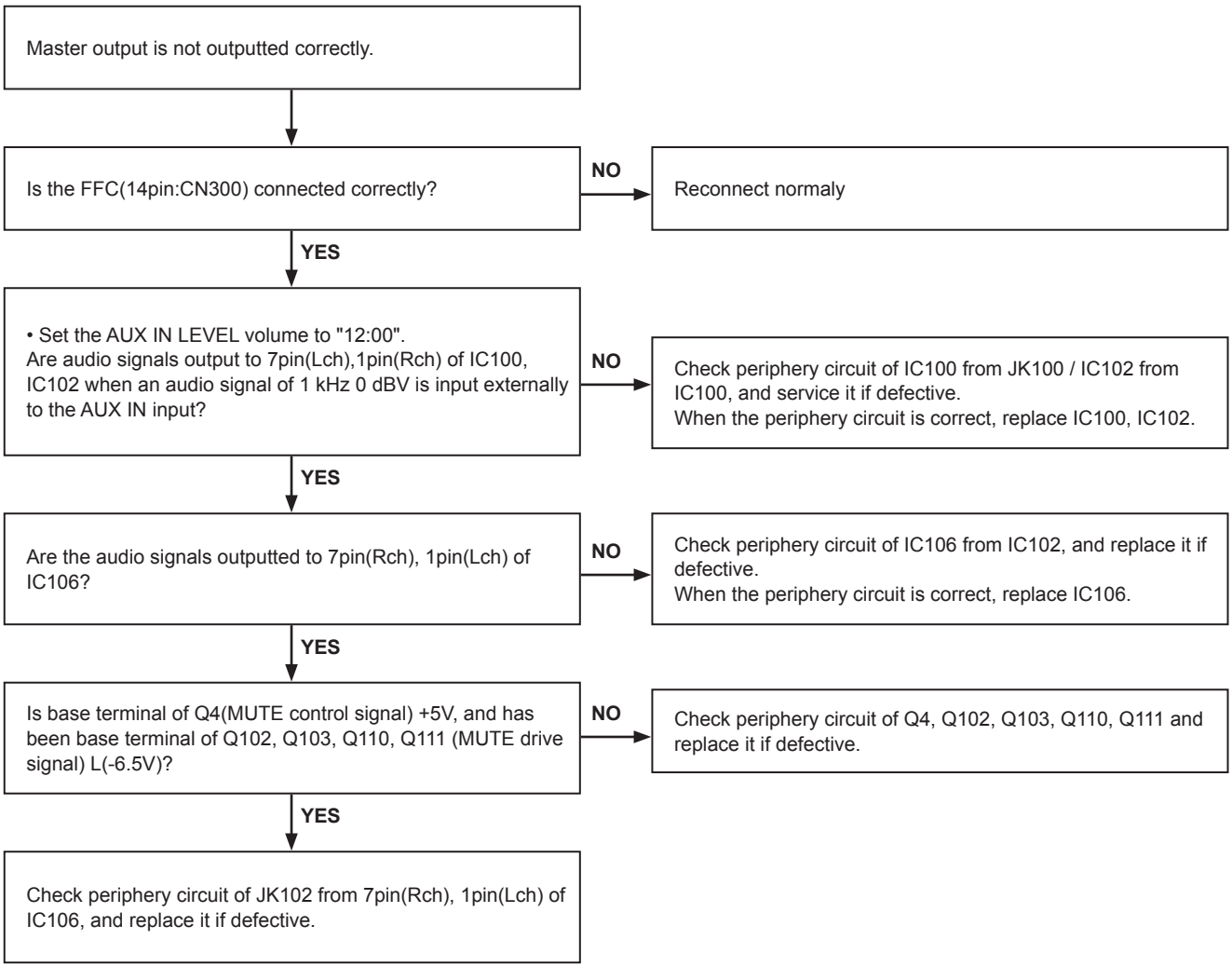

## FLOW CHART NO.7 (405-MC2-3059 : I/O UNIT)



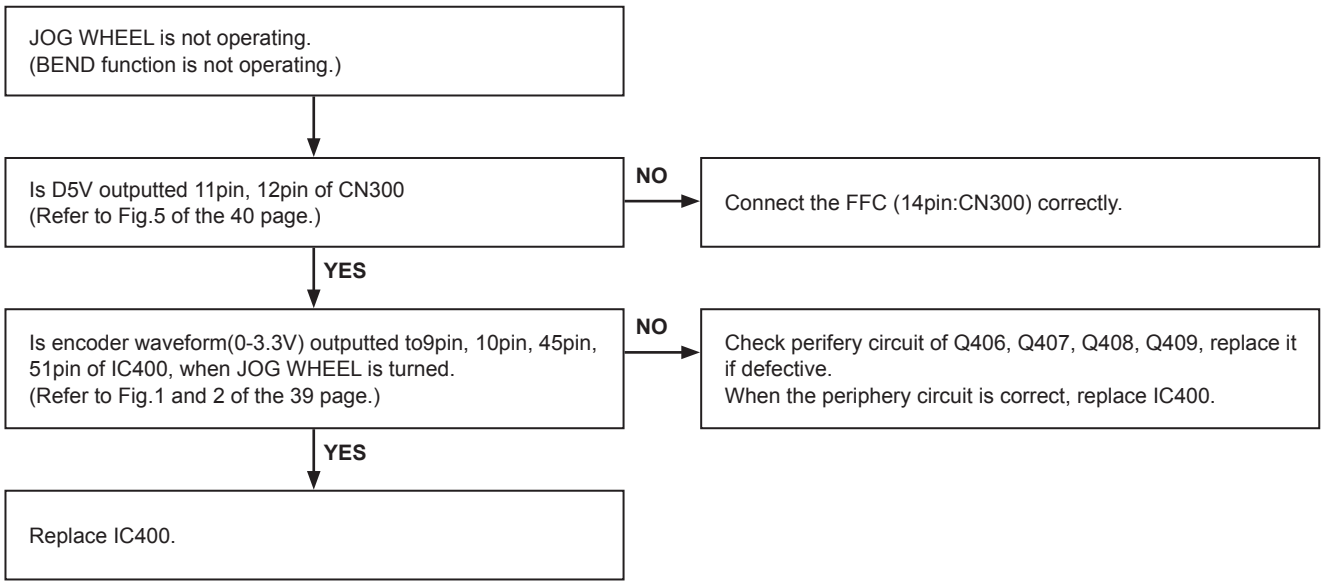
## FLOW CHART NO.8 (405-MC2-3058 : CONTROL UNIT)



## FLOW CHART NO.9 (405-MC2-3059 : I/O UNIT, 405-MC2-3058 : CONTROL UNIT)



## FLOW CHART NO.10 (405-MC2-3058 : CONTROL UNIT)



## FLOW CHART NO.11 (405-MC2-3058 : CONTROL UNIT)

JOG WHEEL is not operating.
(SCRATCH function is not operating.)

↓

Is BEND function operating?

NO → Refer to FLOW CHART NO.10 <JOG WHEEL is not operating. (BEND function is not operating.)>.

YES ↓

Is reference waveform outputted at 2pin, 6pin and 12pin of IC405 and IC406?
(Refer to Fig.3 of the 39 page.)

NO → Check the periphery circuit of IC405 and IC406 and replace it if defective.
When the periphery circuit is correct, replace IC405 and IC406.

YES ↓

When JOG WHEEL is touched, is wavelength of 2pin, 6pin and 12pin changing of IC405 and IC406?
(Refer to Fig.4 of the 40 page.)

NO → Check the periphery circuit of JOG WHEEL form IC405 and IC406 and replace it if defective.
When the periphery circuit is correct, replace JOG WHEEL.

YES ↓

Is waveform inputed to 5pin of IC402 and 15pin of IC403?
(Refer to Fig.6 of the 40 page.)

NO → Replace IC405 and IC406.

YES ↓

When the top of JOG WHEEL is touched, is waveform inputed to 31pin and 39pin of IC400 changed?

NO → Check periphery circuit of IC400 from IC402 and IC403, and replace it if defective.
When the periphery circuit is correct, replace IC402 and IC403.

YES ↓

Replace IC400.

**Fig.1**


**Fig.2**

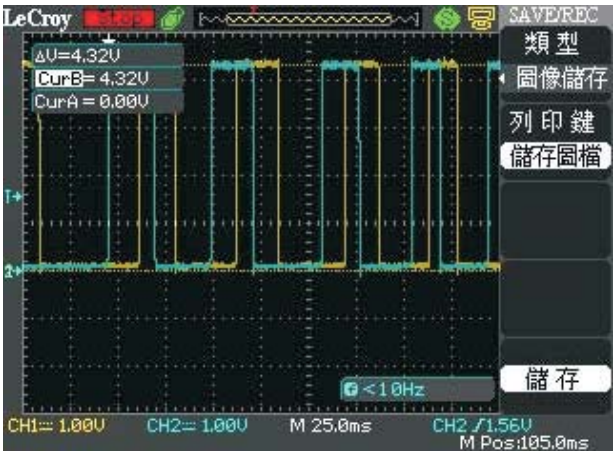



**Fig.3**

**Fig.4**

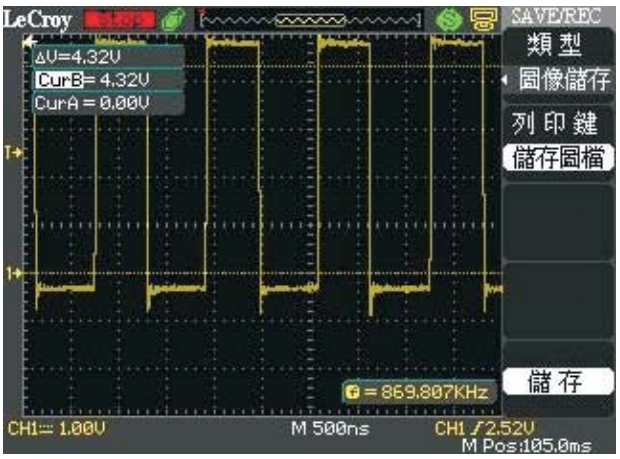



**Fig.5**

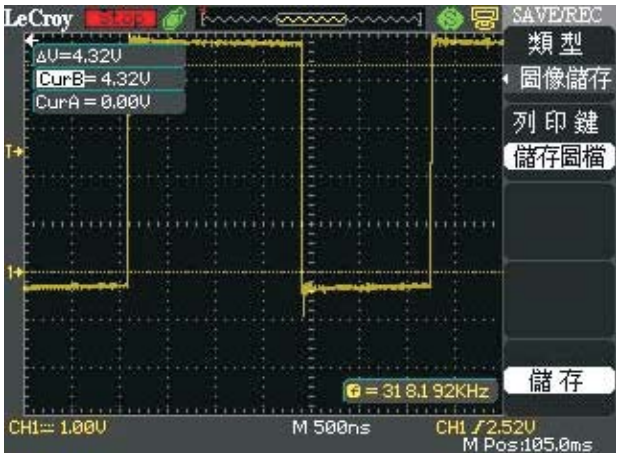
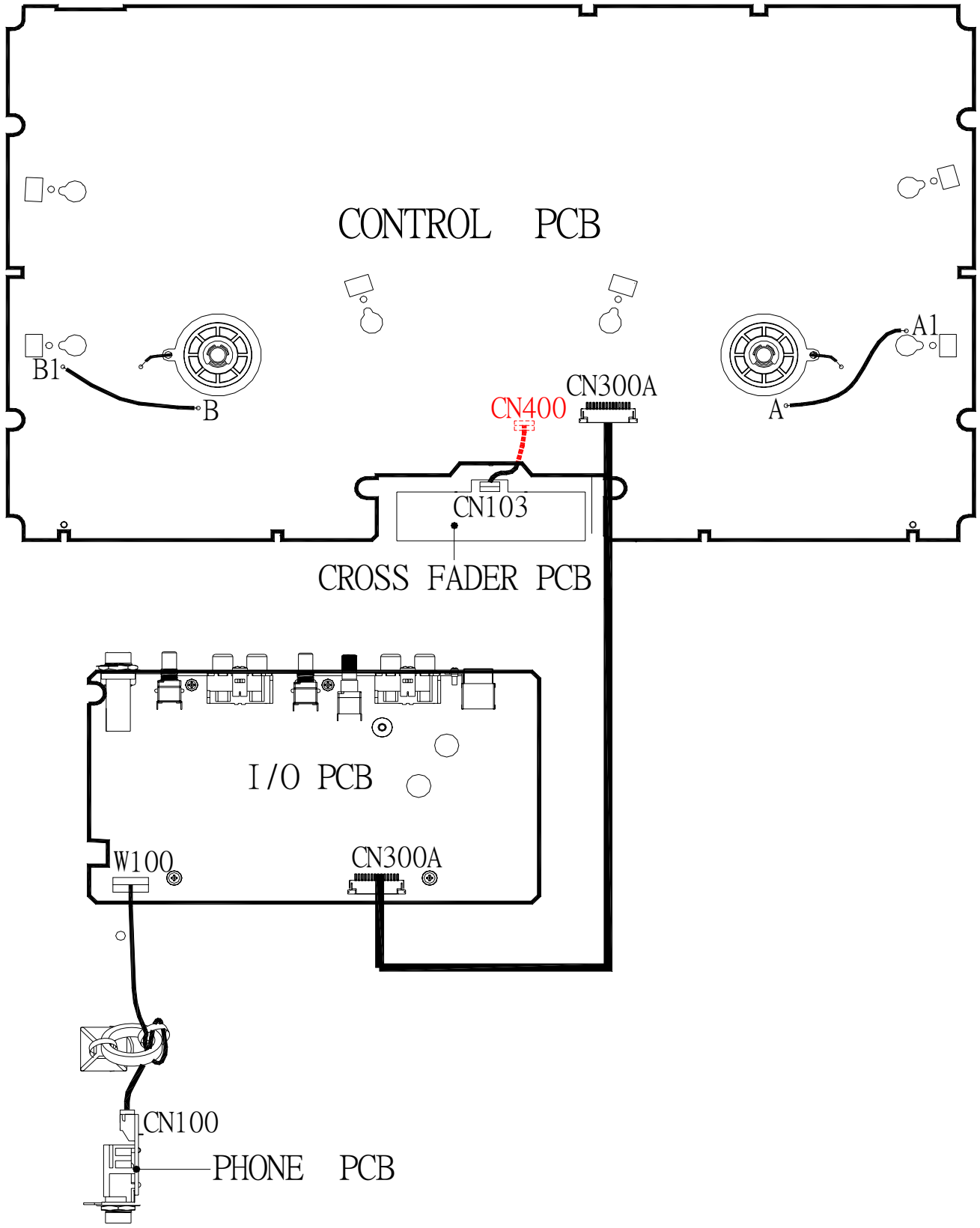


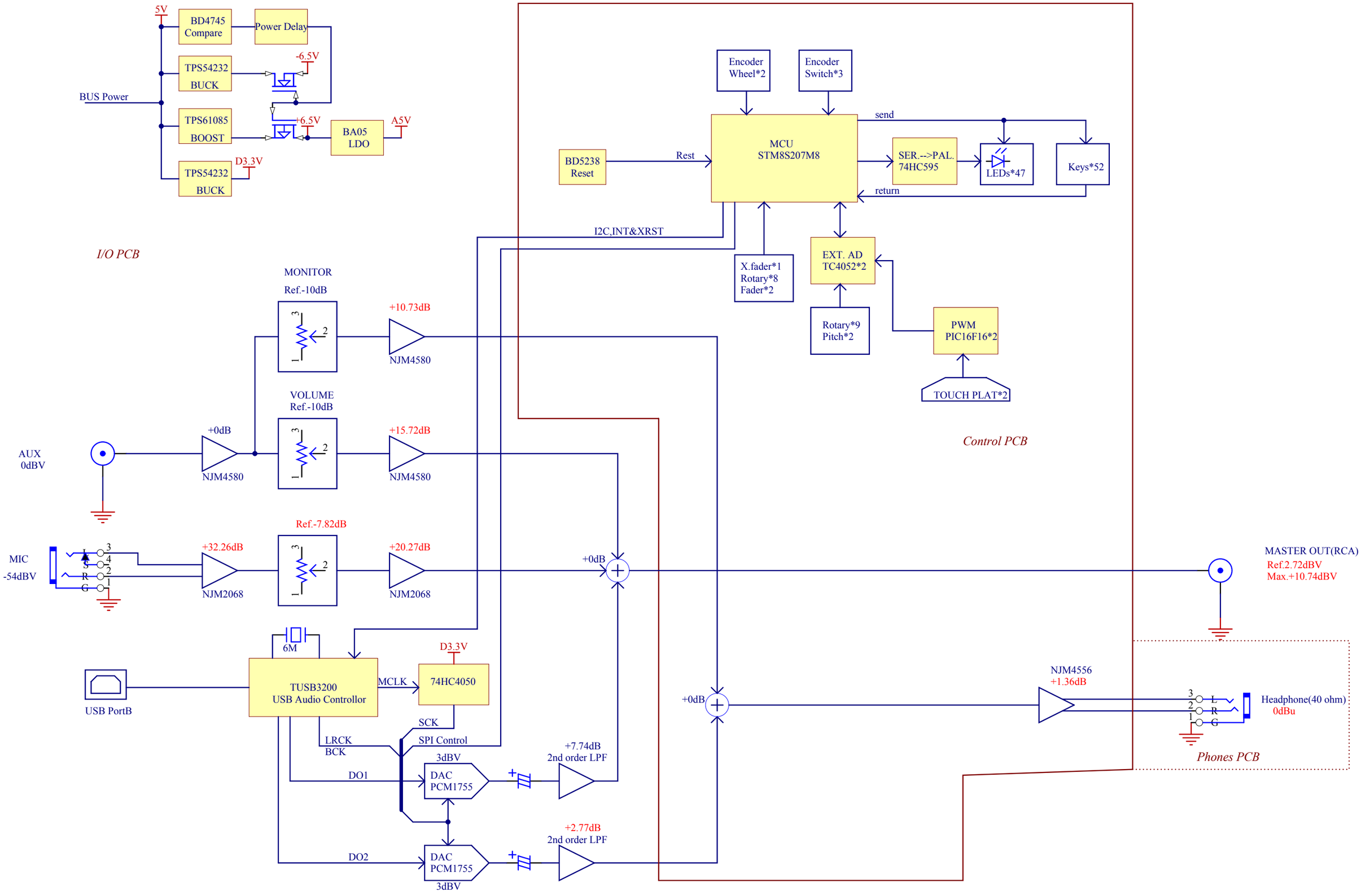

**Fig.6**

## WIRING DIAGRAM

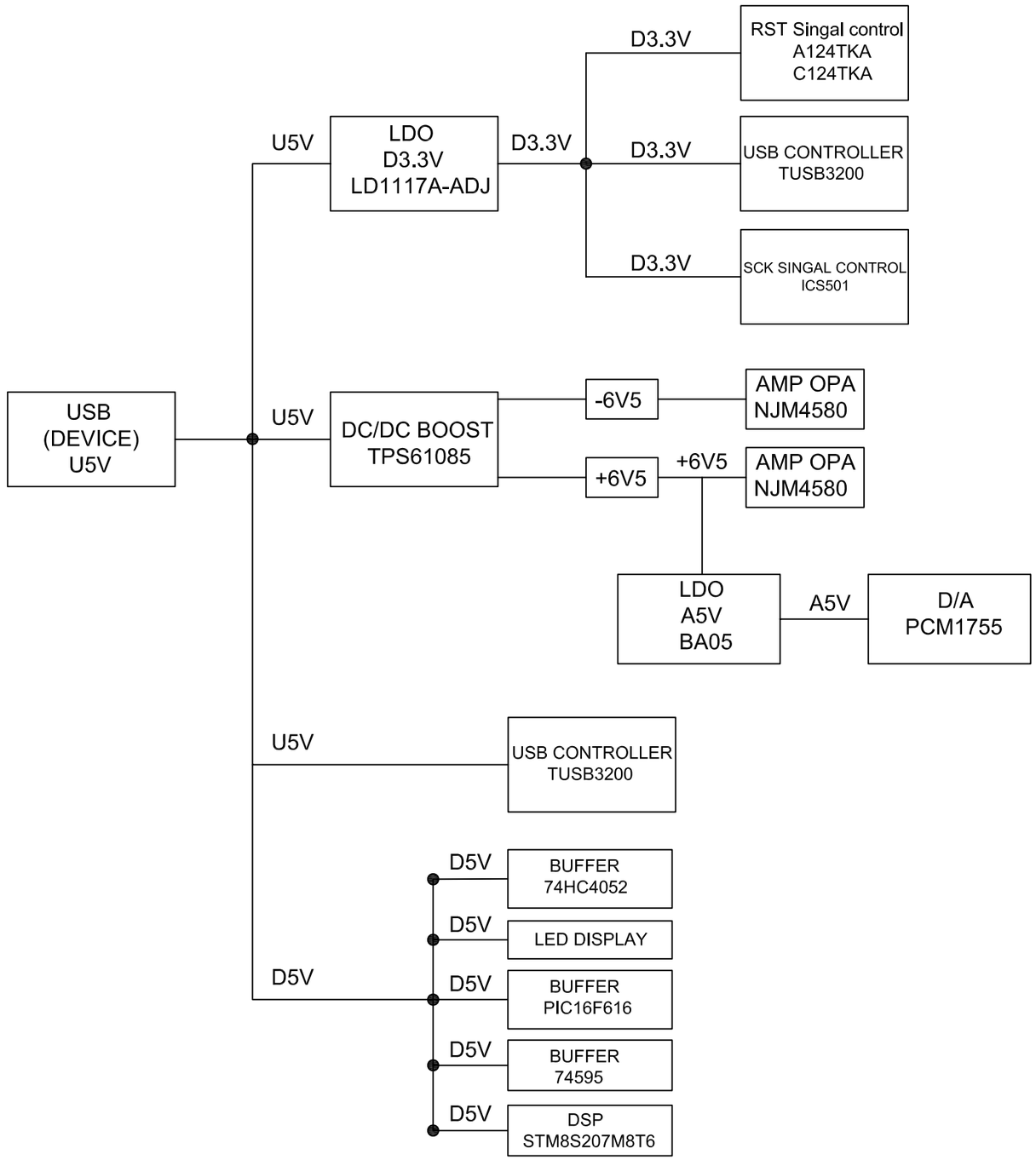


Personal notes:

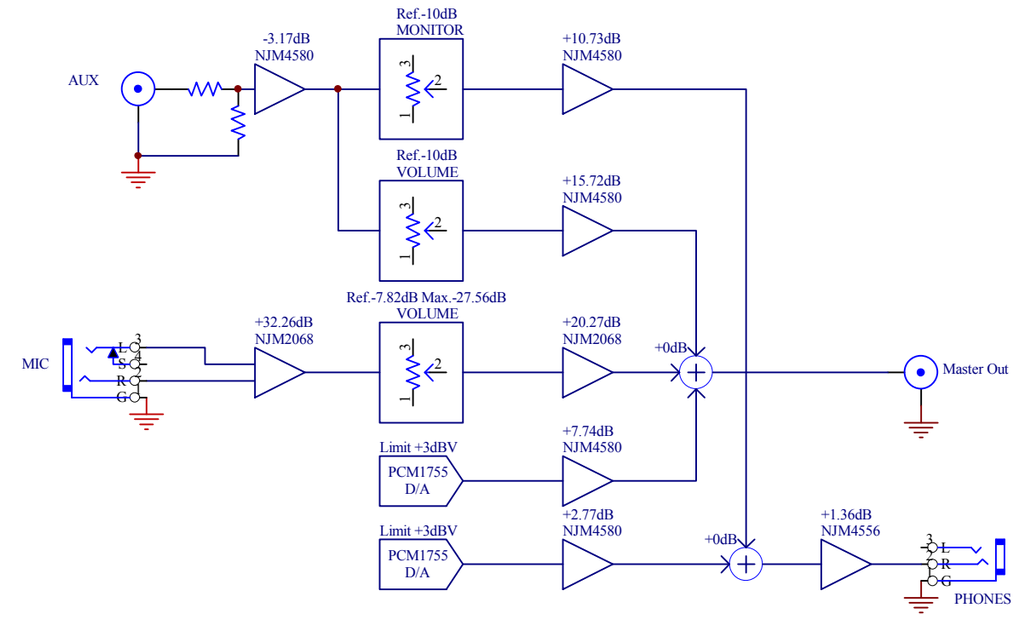
# BLOCK DIAGRAM

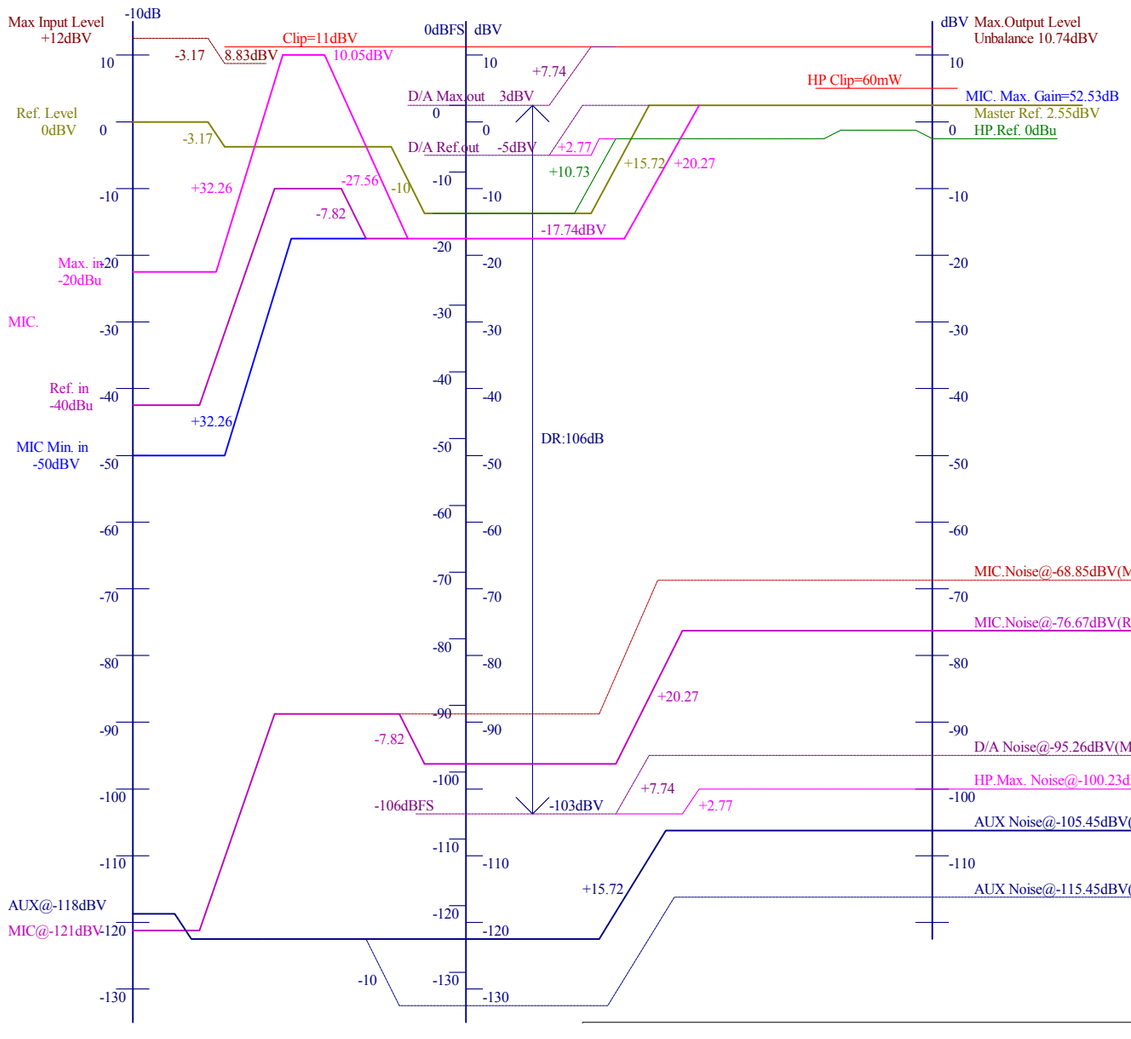


## POWER BLOCK DIAGRAM

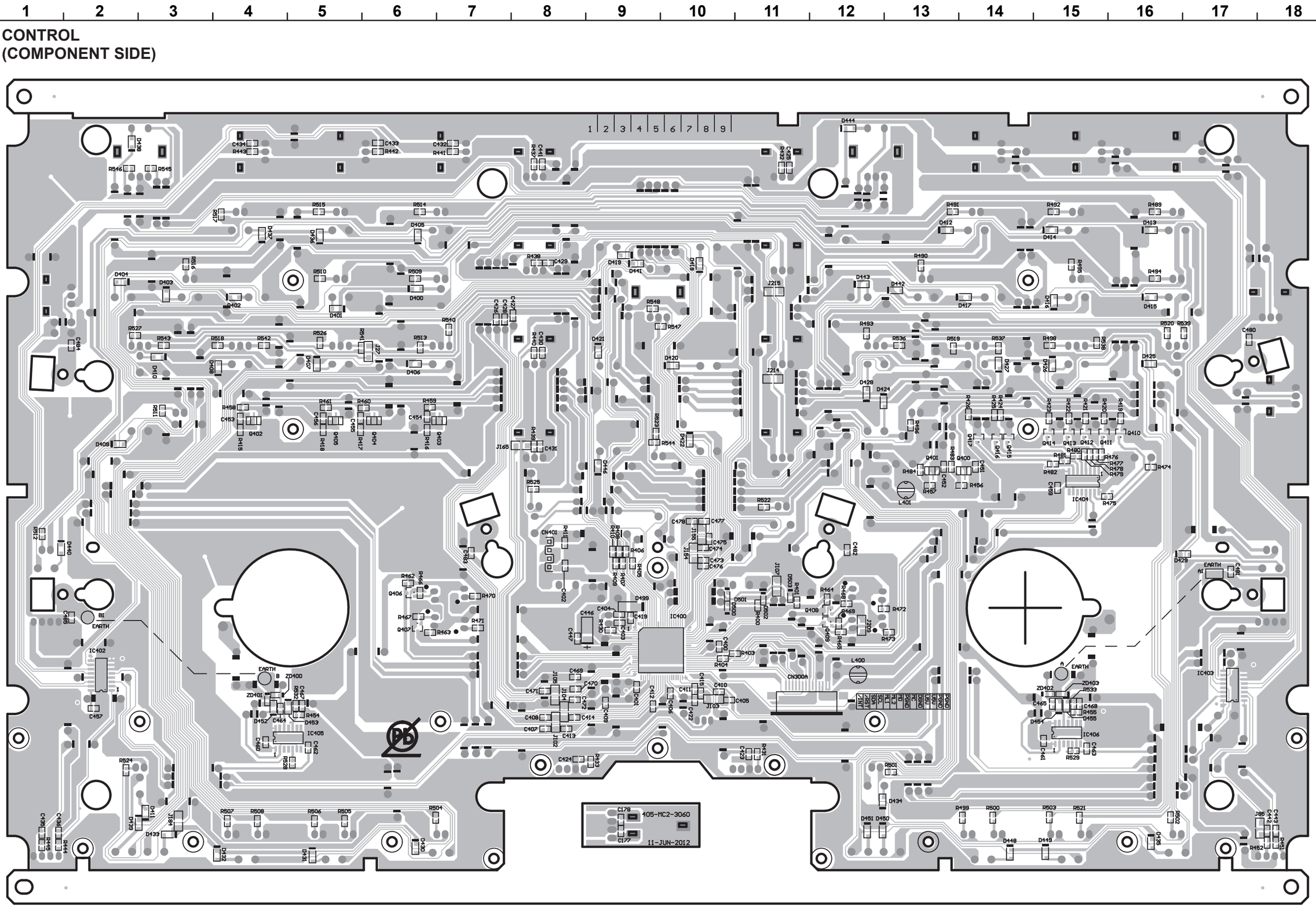


# LEVEL DIAGRAM



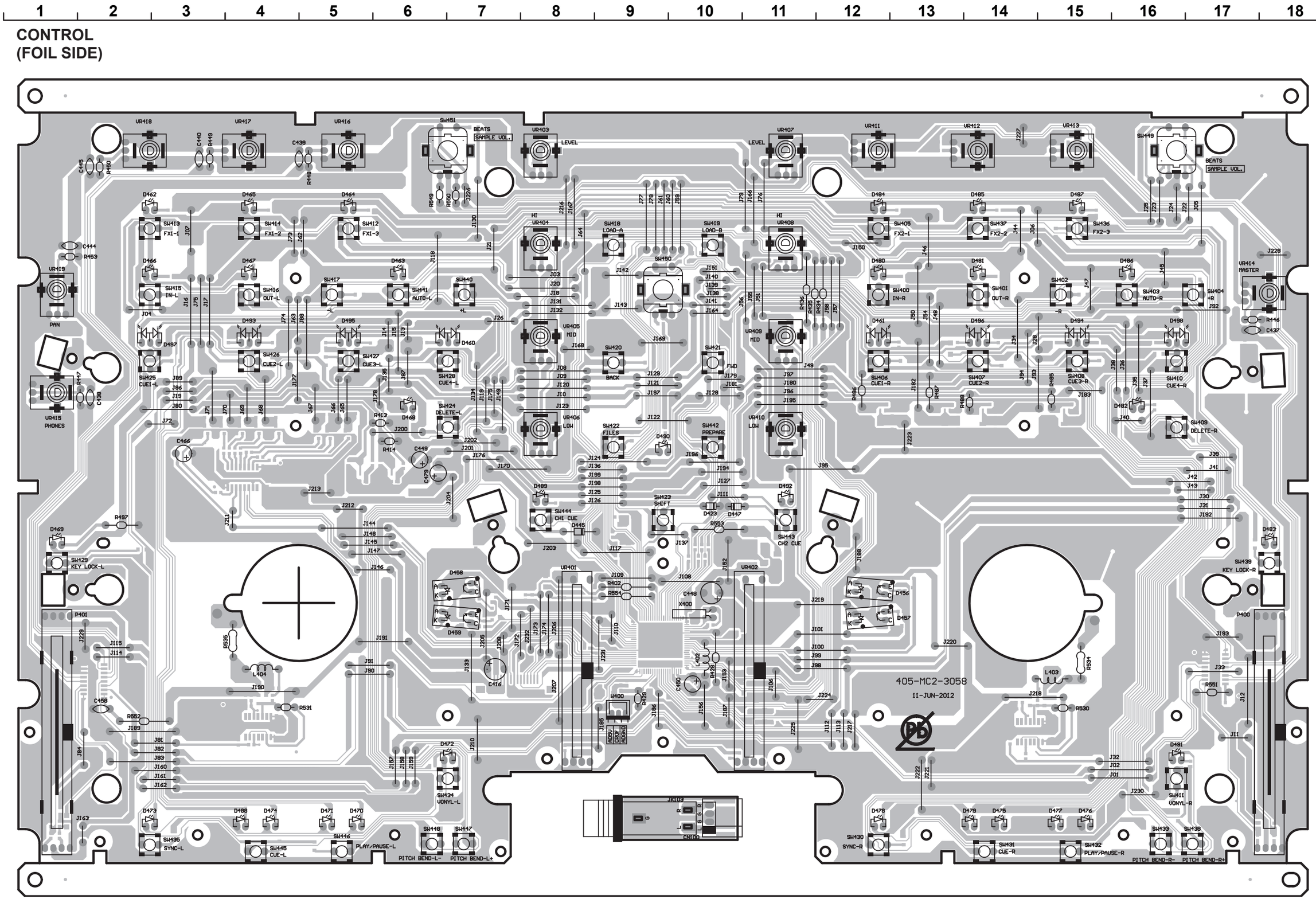
CONTROL
(COMPONENT SIDE)




**鉛フリー半田**
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

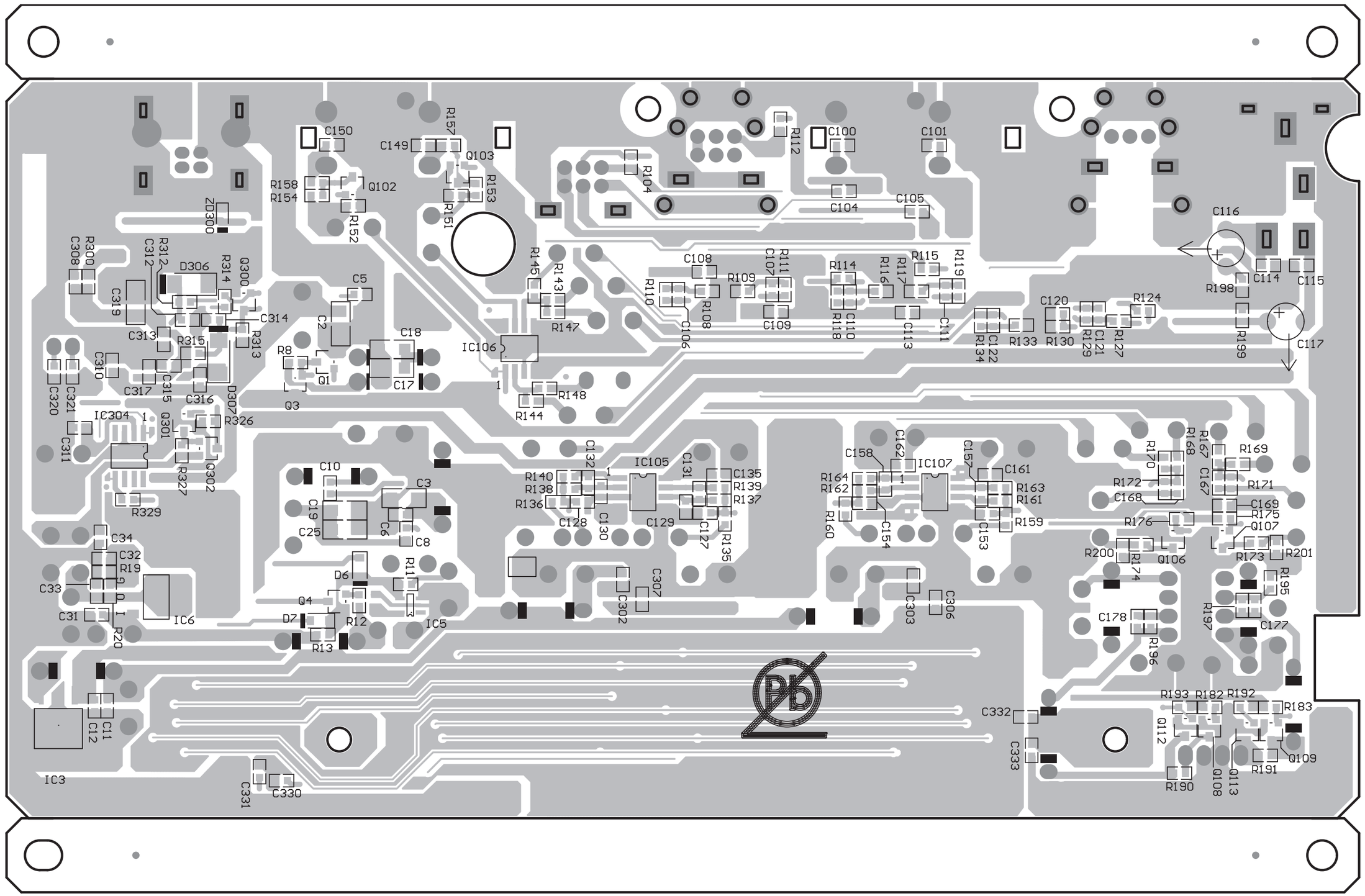
**CONTROL**
**(FOIL SIDE)**




**鉛フリー半田**
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

I/O
(COMPONENT SIDE)

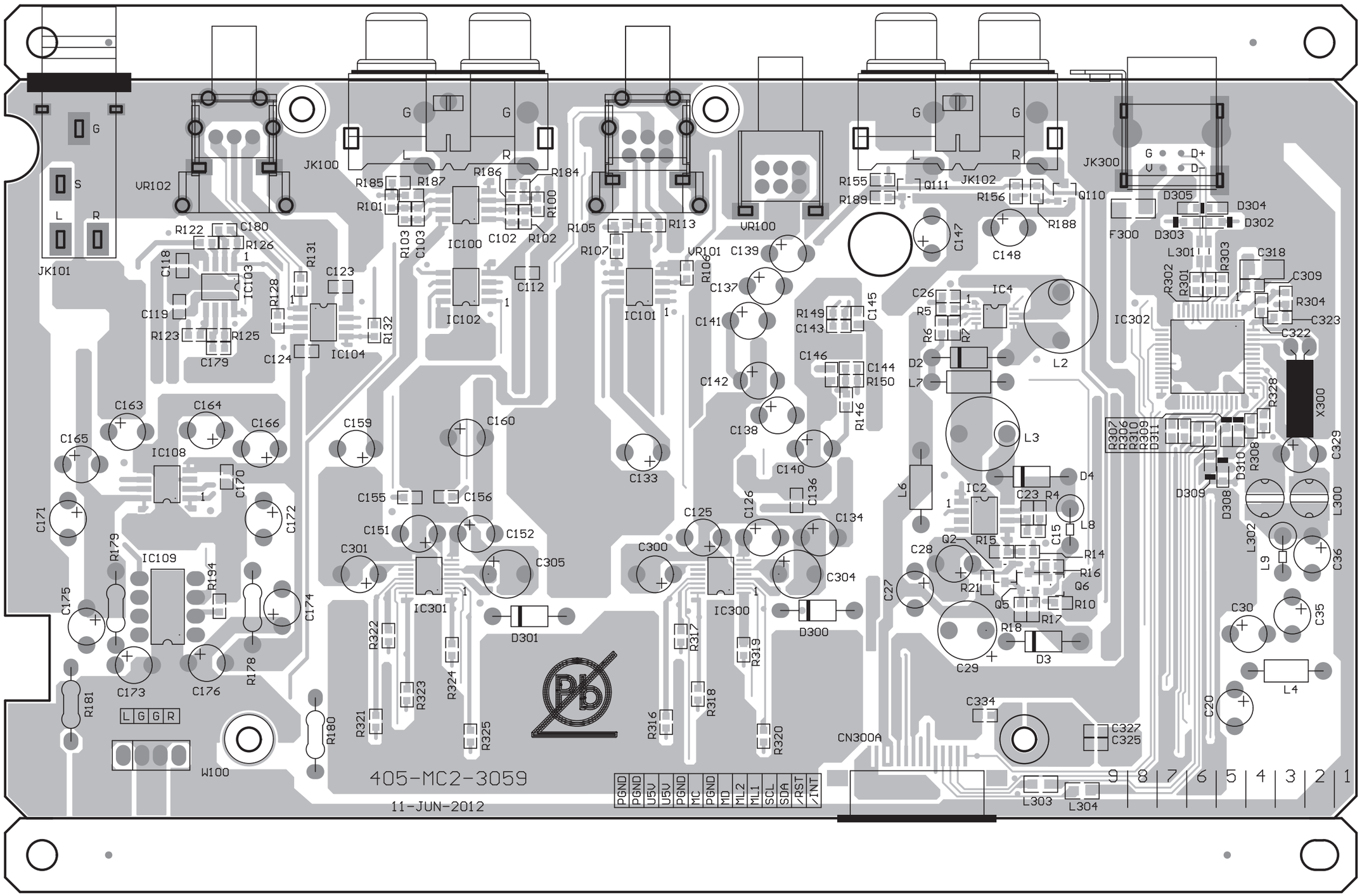



405-MC2-3059

**鉛フリー半田**
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

I/O △2
(FOIL SIDE)



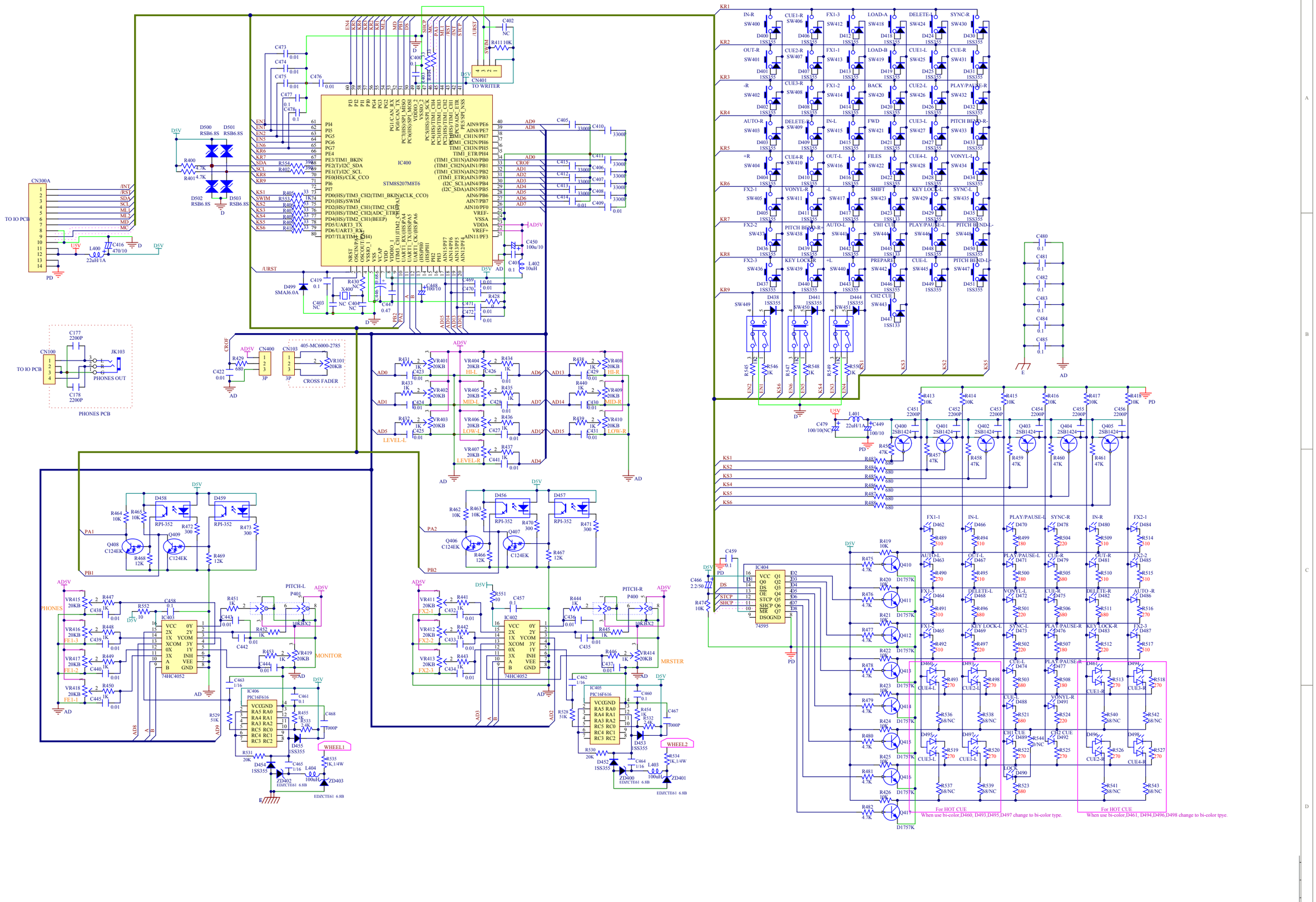

**鉛フリー半田**
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

**CROSS FADER**
**(COMPONENT SIDE)**

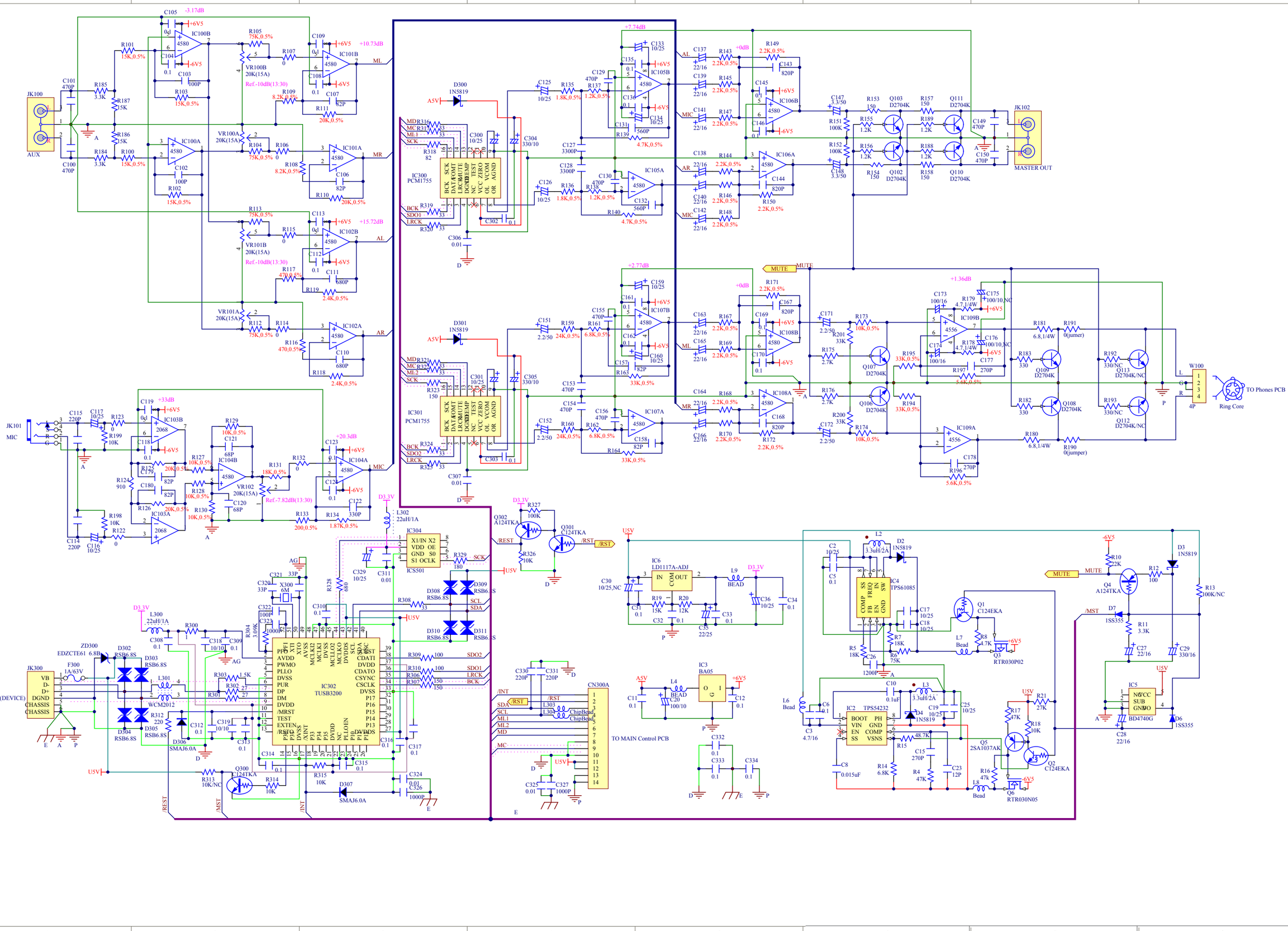
**405-MC6000-2785**

**405-MC2-3059**




# SCHEMATIC DIAGRAMS (1/2)

## CONTROL UNIT

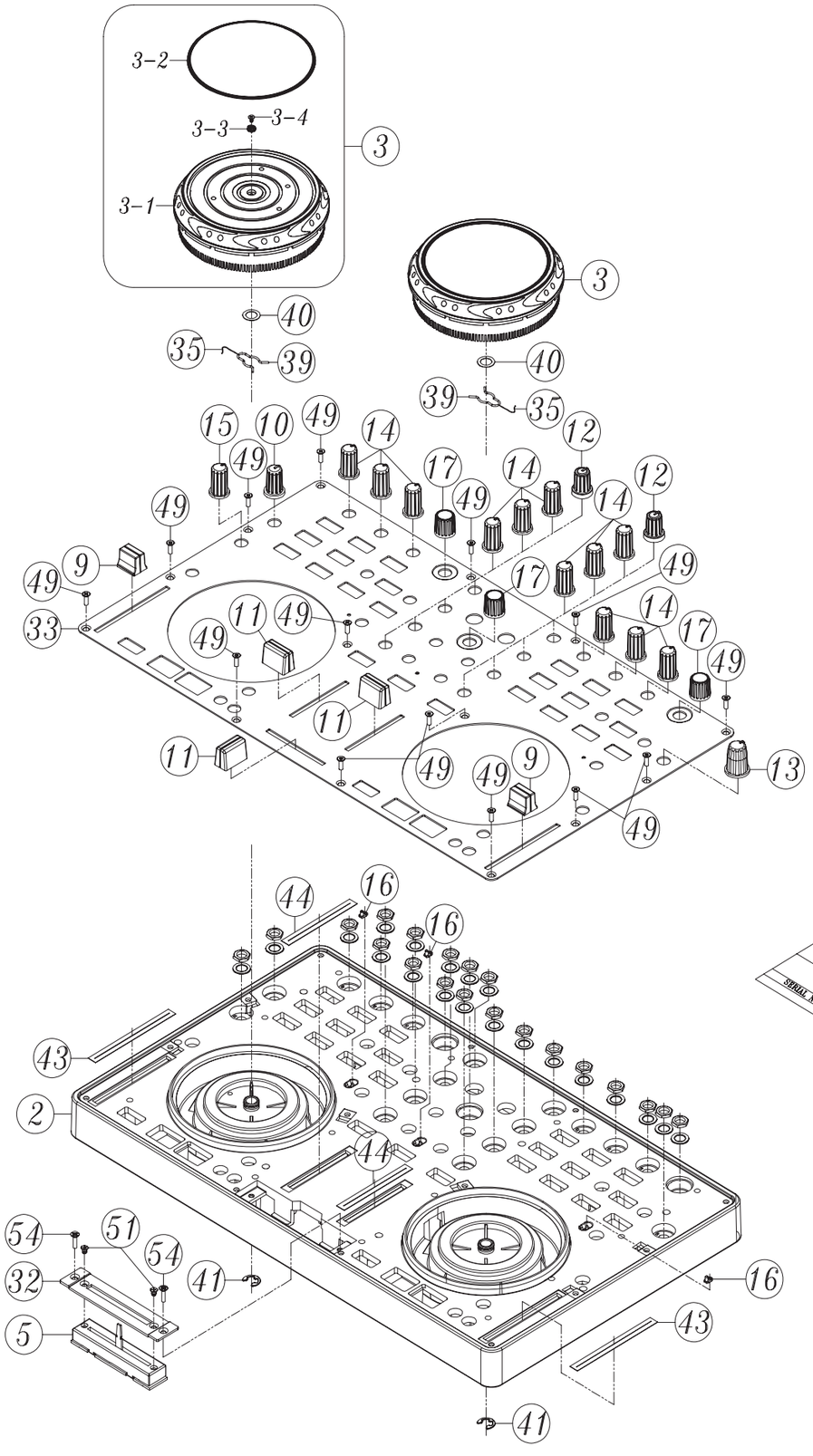


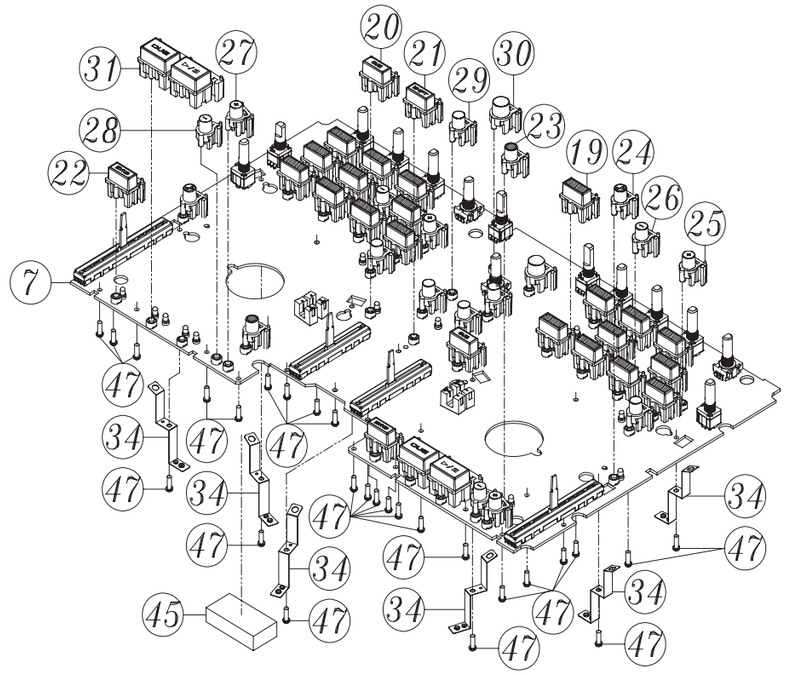


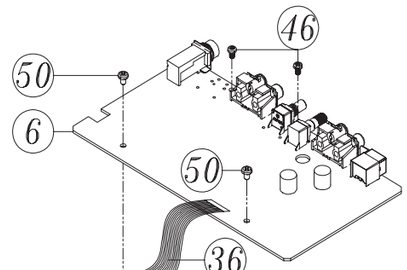

# SCHEMATIC DIAGRAMS (2/2)

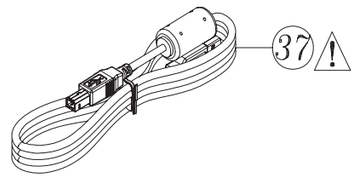
## I/O UNIT

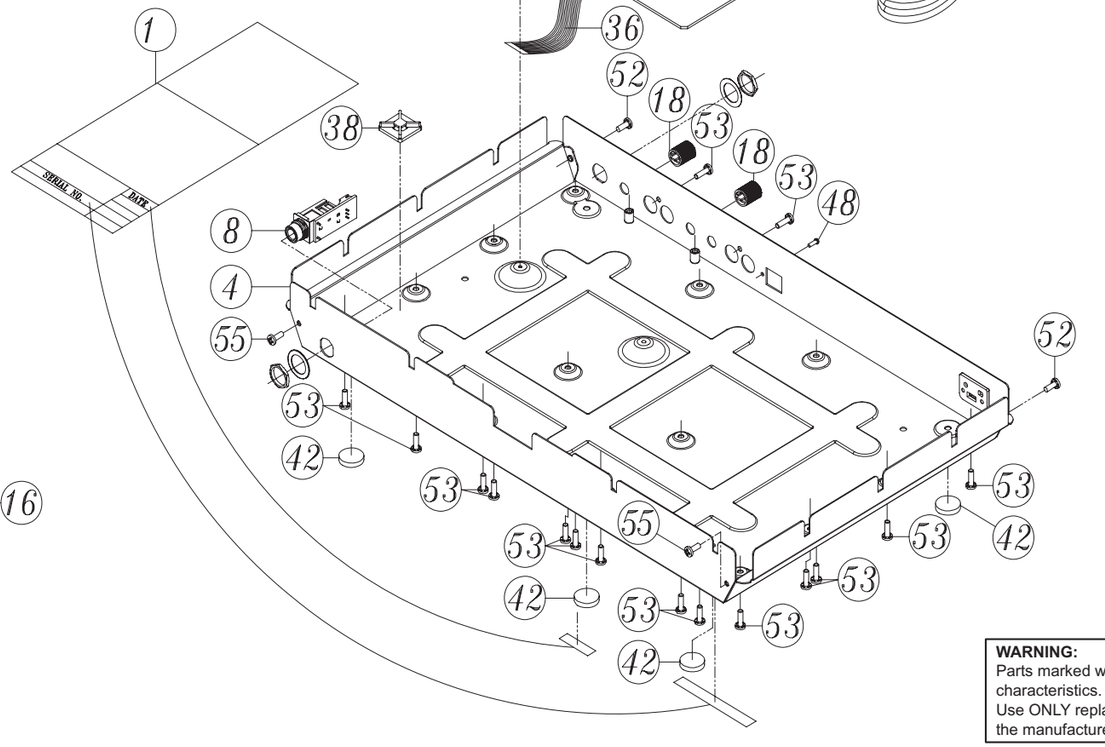
## EXPLODED VIEW




**WARNING:**
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

# PARTS LIST OF EXPLODED VIEW

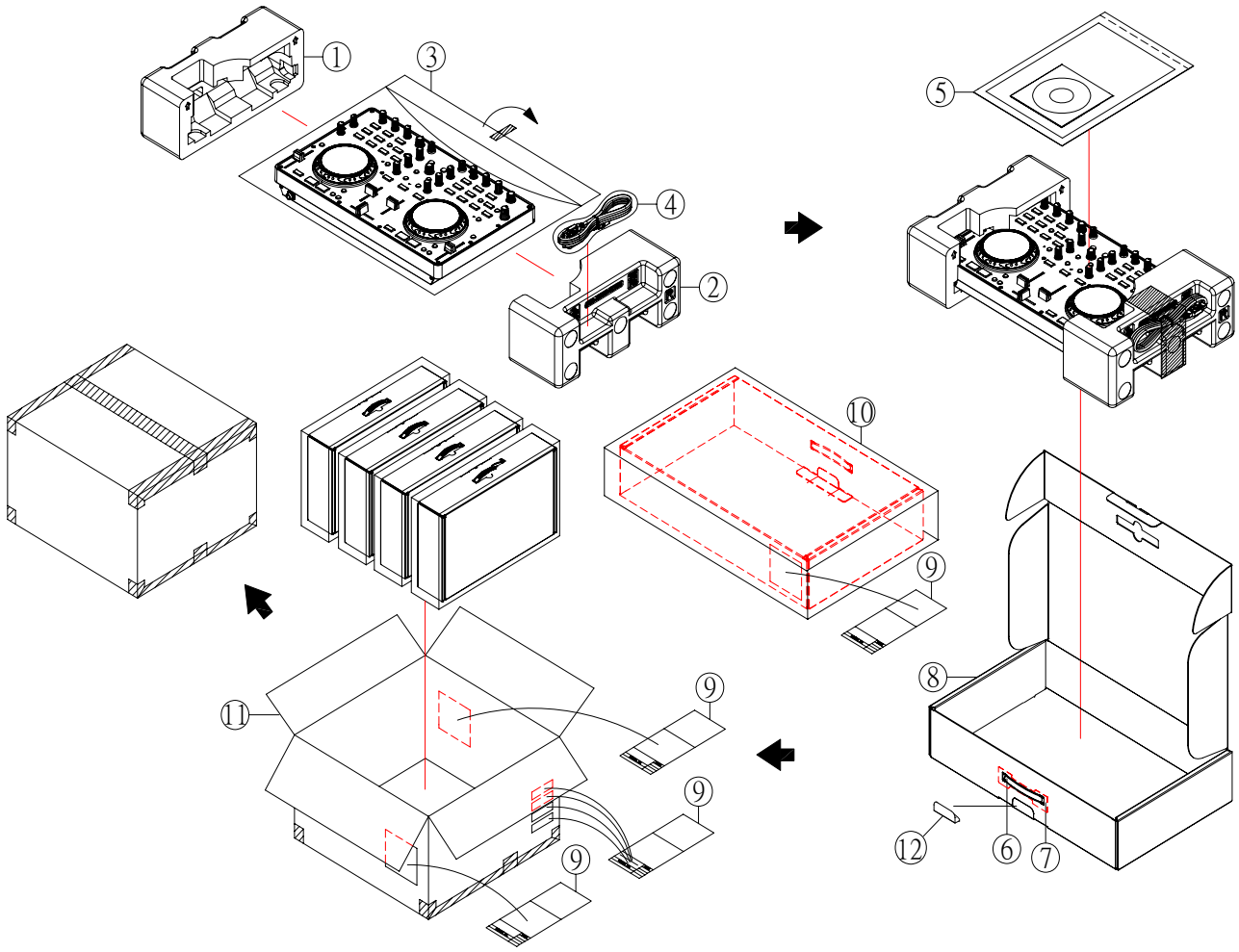
∗Parts indicated by "nsp" on this table cannot be supplied.
∗P.W.B. ASS'Y indicated by "nsp" on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts list and order replacement parts.
∗Parts indicated by the " ★ " mark are not illustrated in the exploded view.
∗The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

**Note:** The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model E2 : Europe model
E1C : China model JP : Japan model
BK : Black model SP : Premium Silver model

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | 1 | nsp | BAR CODE(86*209mm,t=0.1mm) | | 701-M2000EM-4916 | 1 | |
| | 2 | 941403100780P | CHASSIS ASSY | | 701-2000-5159 | 1 | * |
| | 3 | 941403100790P | WHEEL ASSY | | 701-2000-5243 | 2 | * |
| | 3-1 | nsp | WHEEL & SHAFT ASS'Y | | 701-2000-5160 | 2 | |
| | 3-2 | nsp | WHEEL PLATE | | 300-2000-1833 | 2 | |
| | 3-3 | nsp | SPRING(SUS304, ∮ 0.3,L=6) | | 603-M1-384 | 2 | |
| | 3-4 | nsp | SCWER(SAE1018,STS,2.0*3) | | 602-STS2003-677 | 2 | |
| | 4 | nsp | BASE ASS'Y | | 703-2000-1370 | 1 | |
| | 5 | nsp | CROS FADER PCB ASS'Y | | 704-6000-9603 | 1 | |
| | 6 | nsp | I/O PCB ASS'Y | | 704-MC2000-A347 | 1 | |
| | 7 | nsp | CONTROL PCB ASS'Y | | 704-MC2000-A348 | 1 | |
| | 8 | nsp | PHONE PCB ASS'Y | | 704-MC2000-A350 | 1 | |
| | 9 | 941412005080P | PUSH KNOB(MIDDLE) | | 100-UDJ3EB-2213 | 2 | |
| | 10 | 00D9587012907 | ROTATY KNOB(ABS,BLACK) | | 100-300-2226 | 1 | |
| | 11 | 00D9587013401 | PUSH KNOB | | 100-300-2231 | 3 | |
| | 12 | 941412005090P | ROTARY KNOB | | 100-6000-2298 | 2 | |
| | 13 | 412510031005P | ROTARY KNOB | | 100-1100-2633 | 1 | |
| | 14 | 412510032008P | ROTARY KNOB | | 100-1100-2634 | 12 | |
| | 15 | 941412005100P | ROTARY KNOB | | 100-6000-2634 | 1 | |
| | 16 | nsp | LED LENS | | 100-700-2680 | 3 | |
| | 17 | 941412100970P | JOG KNOB | | 100-1000S-2736 V | 3 | * |
| | 18 | 941412100980P | KNOB (small) | | 100-33-2827 | 2 | * |
| | 19 | 941411102010P | BUTTON (RECTANGLE) | | 100-2000-2909 | 20 | * |
| | 20 | 941411102030P | BUTTON (CUE) | | 100-2000A-2909 | 2 | * |
| | 21 | 941411102040P | BUTTON (SHIFT) | | 100-2000B-2909 | 1 | * |
| | 22 | 941411102020P | BUTTON (SYNC) | | 100-2000C-2909 | 2 | * |
| | 23 | 941411102050P | BUTTON (VINYL MODE) | | 100-2000-2910 | 2 | * |
| | 24 | 941411102060P | BUTTON (KEY LOCK) | | 100-2000A-2910 | 2 | * |
| | 25 | 941412100930P | BUTTON (AUTO/EXIT+) | | 100-2000B-2910 | 2 | * |
| | 26 | 941411102070P | BUTTON (AUTO/EXIT-) | | 100-2000C-2910 | 2 | * |
| | 27 | 941411102080P | BUTTON (PITCH BEND+) | | 100-2000D-2910 | 2 | * |
| | 28 | 941411102090P | BUTTON (PITCH BEND-) | | 100-2000E-2910 | 2 | * |
| | 29 | 941411102100P | BUTTON (CIRCLE-S) | | 100-2000B-2910S | 6 | * |
| | 30 | 941411102110P | BUTTON (CIRCLE-L) | | 100-2000-2911 | 2 | * |
| | 31 | 941411102000P | BUTTON (PLAY/CUE) | | 100-2000-2912 | 2 | * |
| | 32 | nsp | FIXED PLATE FOR SLIDE VR(SECC,1.5t) | | 300-100-1167 | 1 | |
| | 33 | 941403100800P | TOP PANEL | | 300-2000-1999 | 1 | * |
| | 34 | nsp | GROUND PLATE | | 300-2000-2001 | 6 | |
| | 35 | nsp | 1P LEAD WIRE(L=45mm,AWM1007,AWG26,BLACK) | | 406-PS2-631 | 2 | |
| | 36 | 941606501770P | 14P 1.0 FFC CABLE(L=200mm) | | 406-MC2-1207 | 1 | * |
| | 37 | nsp | USB CABLE(L=1500mm) | | 408-100UG-087 | 1 | * |
| | 38 | nsp | ADHESIVE BACKED MOUNT | | 504-HDJ7000-032 | 1 | * |
| | 39 | nsp | CLIP | | 603-PROS2-256A | 2 | * |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | 40 | nsp | PULLEY WASHER( ∮ 11.6*76*0.25t) | | 606-F200-003 | 2 | |
| | 41 | nsp | E RING | | 606-DJ3000-105 | 2 | |
| | 42 | nsp | FOOT(PORON,BLACK, ∮ 15*3t) | | 612-HV3500K-055 | 4 | |
| | 43 | nsp | CUSHION(75*7*0.3t,BLACK) | | 612-IMR-295 | 2 | |
| | 44 | nsp | CUSHION(64*7*0.3t,BLACK) | | 612-IM-296 | 2 | |
| | 45 | nsp | SPACER | | 612-2000-440 | 1 | |
| | 46 | nsp | SCREW(3*5 P=0.5) | | 602-B300-041 | 2 | |
| | 47 | nsp | SCREW(SAE1018,PTP,M2.6*L8) | | 602-SL24F-099 | 27 | |
| | 48 | nsp | SCREW(STP,M2*P0.4*L6) | | 602-HP1010K-181 | 1 | |
| | 49 | nsp | SCREW( ∮ 5,L=8) | | 602-HP1010K-182 | 14 | |
| | 50 | nsp | SCREW(SAE1018,BTB, ∮ 3*L5) | | 602-QMX2BPM-322 | 2 | |
| | 51 | nsp | SCREW(SAE1018,ISOF, ∮ 3*L4*P0.5) | | 602-SA12-414 | 2 | |
| | 52 | nsp | SCREW(STB,3*8,ZB) | | 602-DCM280-429 | 2 | |
| | 53 | nsp | SCREW(TTB,3*10,P1.06) | | 602-XM610-522 | 16 | |
| | 54 | nsp | SCREW(SAE1018,PTF,M3*L10*P1.27) | | 602-PTF3010-585 | 2 | |
| | 50 | nsp | SCREW(SAE1018,ISOF, ∮ 3*L4*P0.5) | | 602-SA12-414 | 2 | |
| | 51 | nsp | SCREW(STB,3*8,ZB) | | 602-DCM280-429 | 2 | |
| | 52 | nsp | SCREW(SAE1018,PTB, ∮ 3*L8) | | 602-DJ5500-452 | 11 | |
| | 53 | nsp | SCREW(BTP,2*5,MC) | | 602-A700-494 | 4 | |
| | 54 | nsp | SCREW(SAE1018,PTF,M3*L10*P1.27) | | 602-PTF3010-585 | 2 | |
| | 55 | nsp | SCREW(SPECIAL HEAD, ∮ 3*6*P0.5) | | 602-ST306-728B | 2 | |

# PACKING VIEW




# PARTS LIST OF PACKING & ACCESSORIES

∗Parts indicated by "nsp" on this table cannot be supplied.
∗Parts indicated by the " ★ " mark are not illustrated in the exploded view.
∗The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

**Note:** The symbols in the column "Remarks" indicate the following destinations.

| | |
|---|---|
| E3 : U.S.A. & Canada model | E2 : Europe model |
| E1C : China model | JP : Japan model |
| BK : Black model | SP : Premium Silver model |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | 1 | 941533101470P | POLYFOAM L | | 506-2000-638L | 1 | * |
| | 2 | 941533101480P | POLYFOAM R | | 506-2000-638R | 1 | * |
| | 3 | 941535100540P | SOFT BAG | | 509-2000-312 | 1 | * |
| | 4 | nsp | USB CABLE(L=1500mm) | | 408-100UG-087 | 1 | |
| | 4 | nsp | POLYBAG | | 505-HM500A-049 | 1 | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | 5 | nsp | I/B ASS' Y | | 701-M2000EM-5237 | 1 | |
| | 5 | 35201016500AP | IM SOFTWARE DISC | | 429-M2000EM-139 | 1 | * |
| | 5 | 941342100030P | SERATO DJ INTRO DISC | | 429-M2000EM-145 | 1 | * |
| | 5 | 54111092600AP | QUICK SETUP GUIDE | | 502-M2000EM-3239 | 1 | * |
| | 5 | nsp | WARRANTY(EN.) | | 502-M2000EM-3240 | 1 | |
| | 5 | nsp | CERTIFICATE(JP.) | | 502-M2000EM-3241 | 1 | |
| | 5 | nsp | PE BAG | | 505-DJ2500H-014 | 1 | |
| | 6 | 941414100120P | CARTON HANDLE | | 100-U25G-1157A | 1 | |
| | 7 | 941414100130P | HANDLE BASE | | 100-U25G-1158A | 1 | |
| | 8 | 941531102990P | GIFT BOX | | 507-2000-3349 | 1 | * |
| | 9 | nsp | BAR CODE(86*209mm,t=0.1mm) | | 701-M2000EM-4916 | 1 | |
| | 10 | nsp | BAG | | 505-2000-649 | 1 | |
| | 11 | nsp | CARTON | | 507-2000-3351 | 0.25 | |
| | 12 | nsp | ROUND LABEL | | 501-R200EUF-2411 | 1 | |

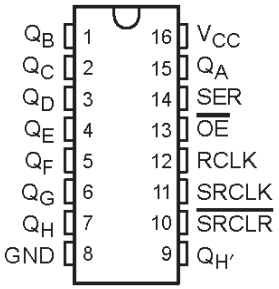
# SEMICONDUCTORS

Only major semiconductors are shown. General semiconductors etc. are omitted from list.
The semiconductors which have a detailed drawing in a schematic diagram are omitted from list.

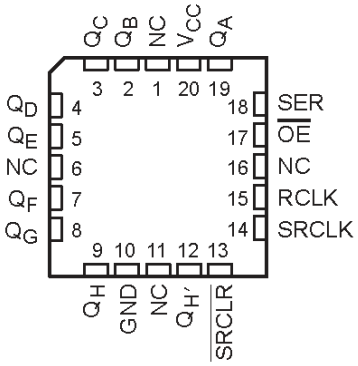
## 1. IC's

### 74AHC595DR,SOP-16 (IC404)

SN54AHC595 . . . J OR W PACKAGE
SN74AHC595 . . . D, DB, N, NS, OR PW PACKAGE
(TOP VIEW)

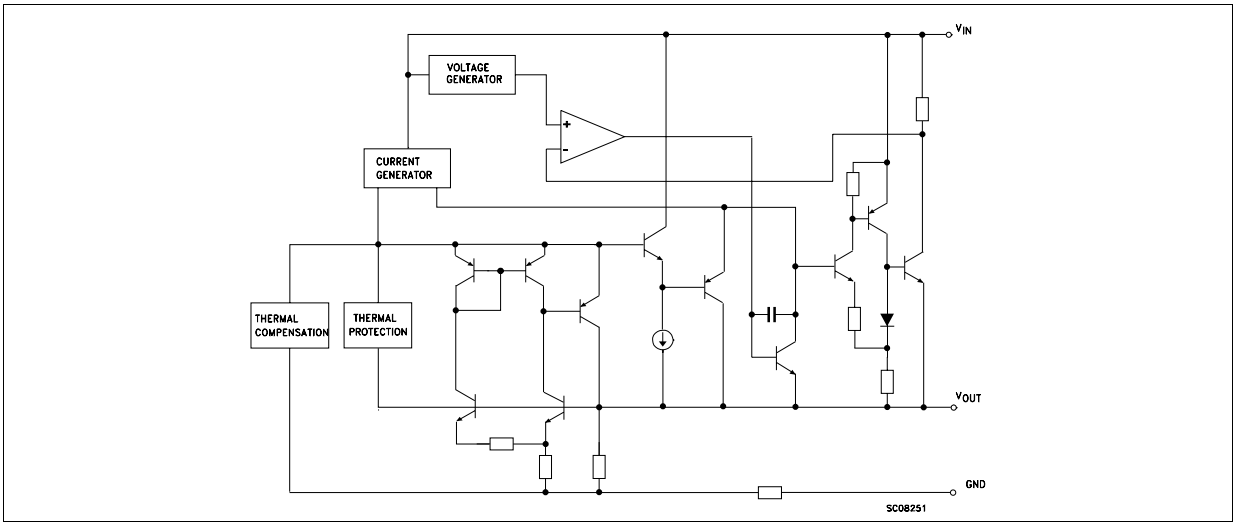



SN54AHC595 . . . FK PACKAGE
(TOP VIEW)

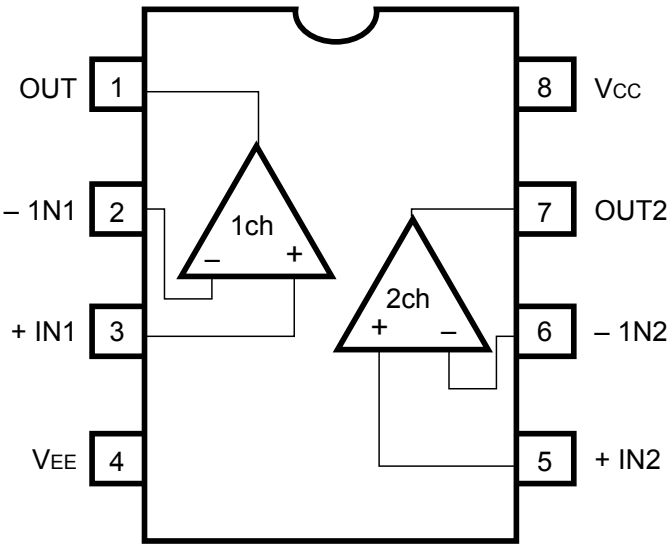



NC − No internal connection

### LD1117AC-ADJ-AA3,SOT-223 (IC6)

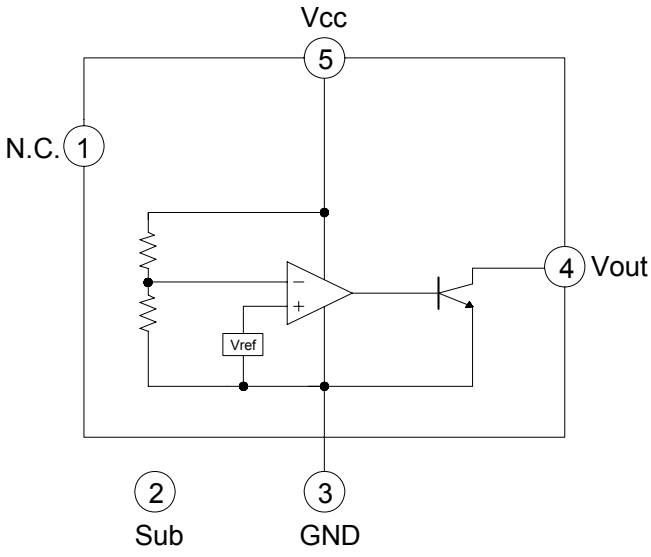


**NJM-2068M-TE2,SOP8 (IC103)**




**BD4740G-TR,SMP5 (IC005)**

## BLOCK DIAGRAM

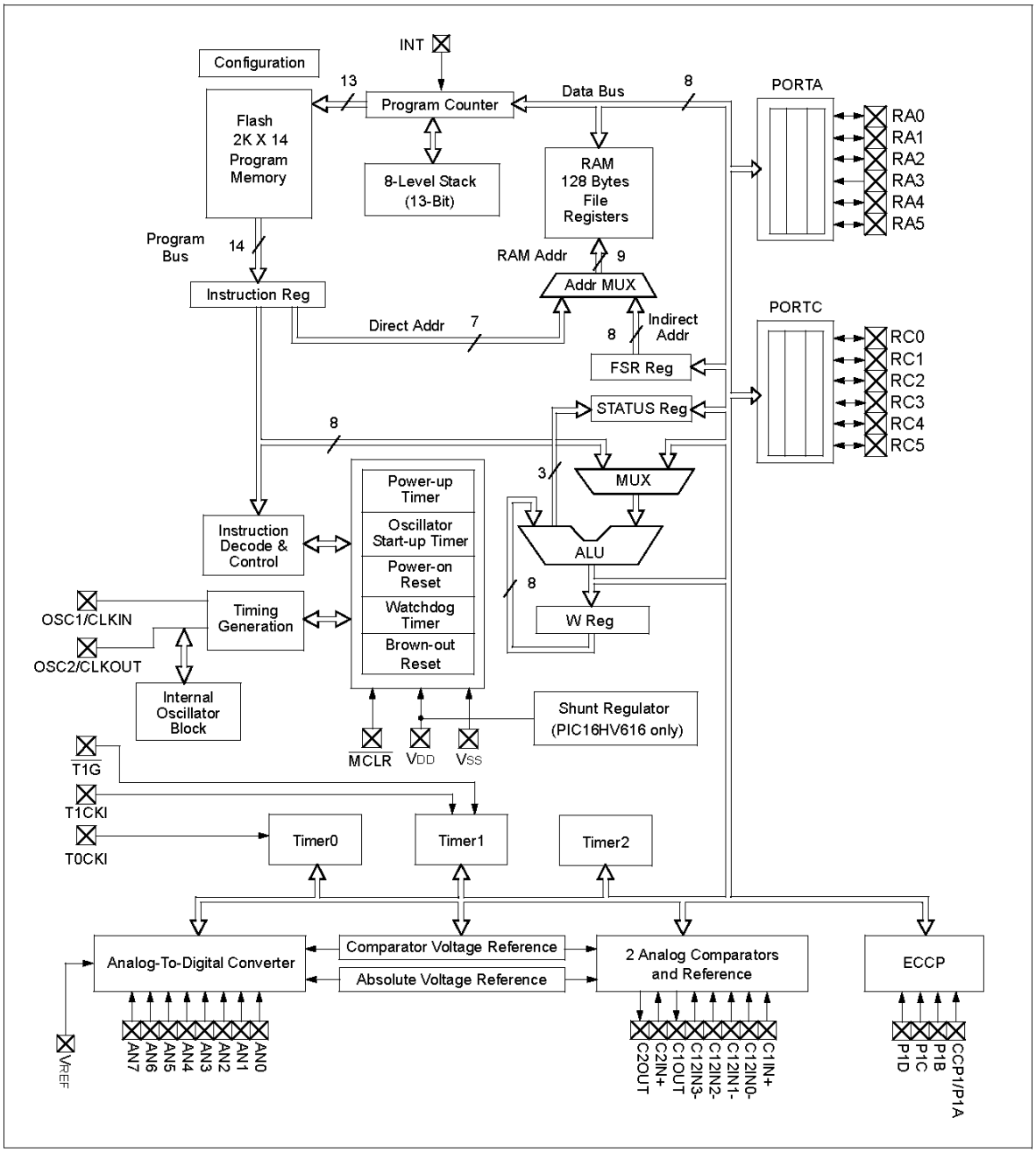



## PIN NO.,PIN NAME

| Pin NO. | Pin Name |
|---|---|
| 1 | N.C. |
| 2 | SUB |
| 3 | GND |
| 4 | Vout |
| 5 | VCC |

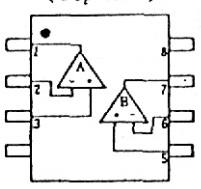
NOTE: Substrate Pin should be connected with GND
* Please refer to Technical note concerning application circuit,and etc.

## PIC16F616-I/SL,SOIC-16 (IC405/IC406)



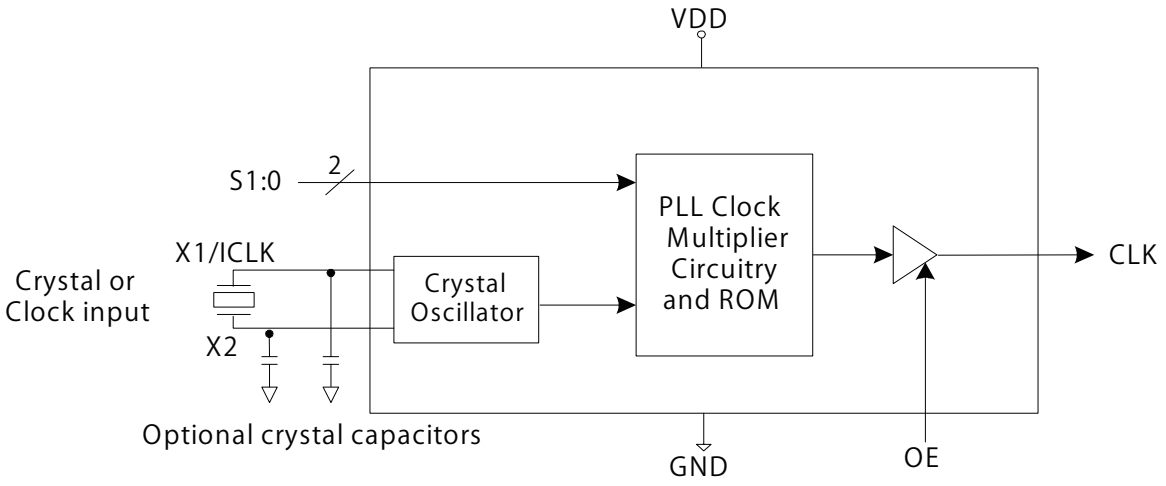

## NJM4556A (IC109)

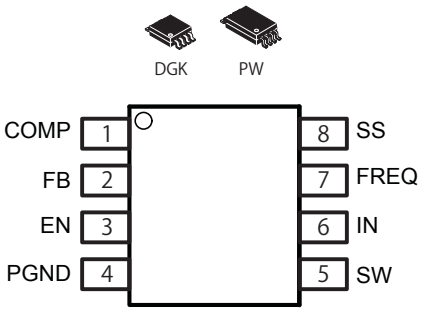
417-3113-018
NJM4556A
D,M,V-Type
(Top View)



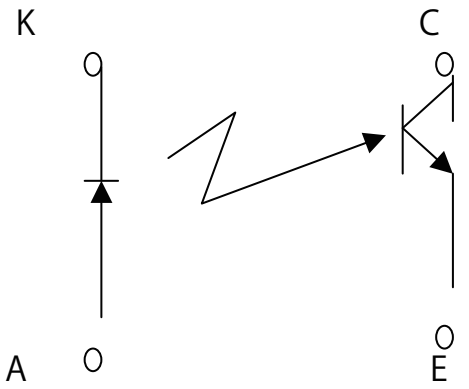
PIN FUNCTION
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V-
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V

**ICS501MLFT (IC304)**

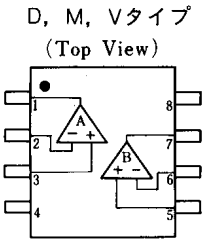


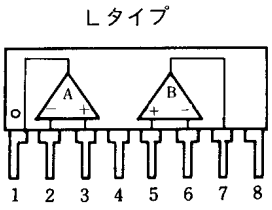




**SENSOR LTH-301-07U (D456/D457/D458/D459)**



## NJM-4580M-TE2,SOP-8 (IC100~IC102, IC104~IC108)

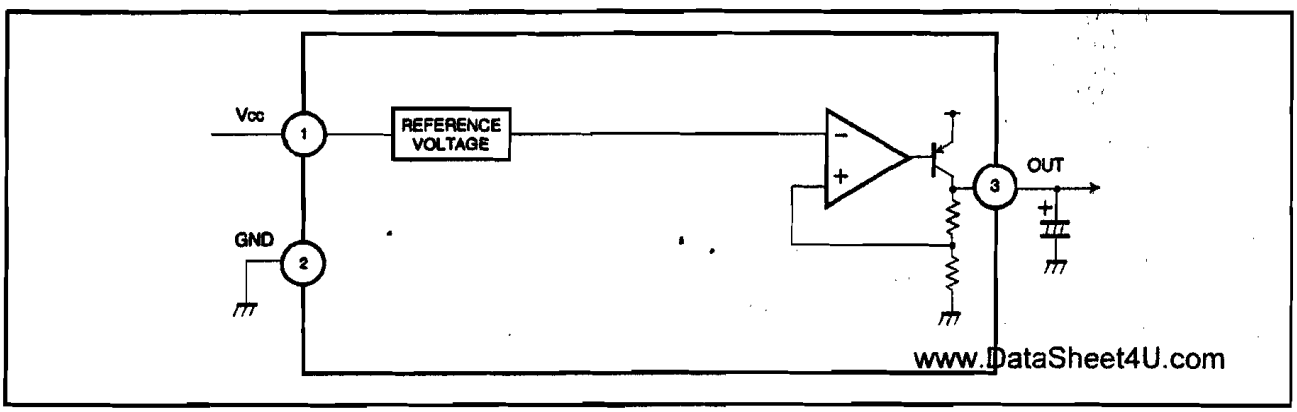



ピン配置
1．A OUTPUT
2．A−INPUT
3．A+INPUT
4．V⁻
5．B+INPUT
6．B−INPUT
7．B OUTPUT
8．V⁺

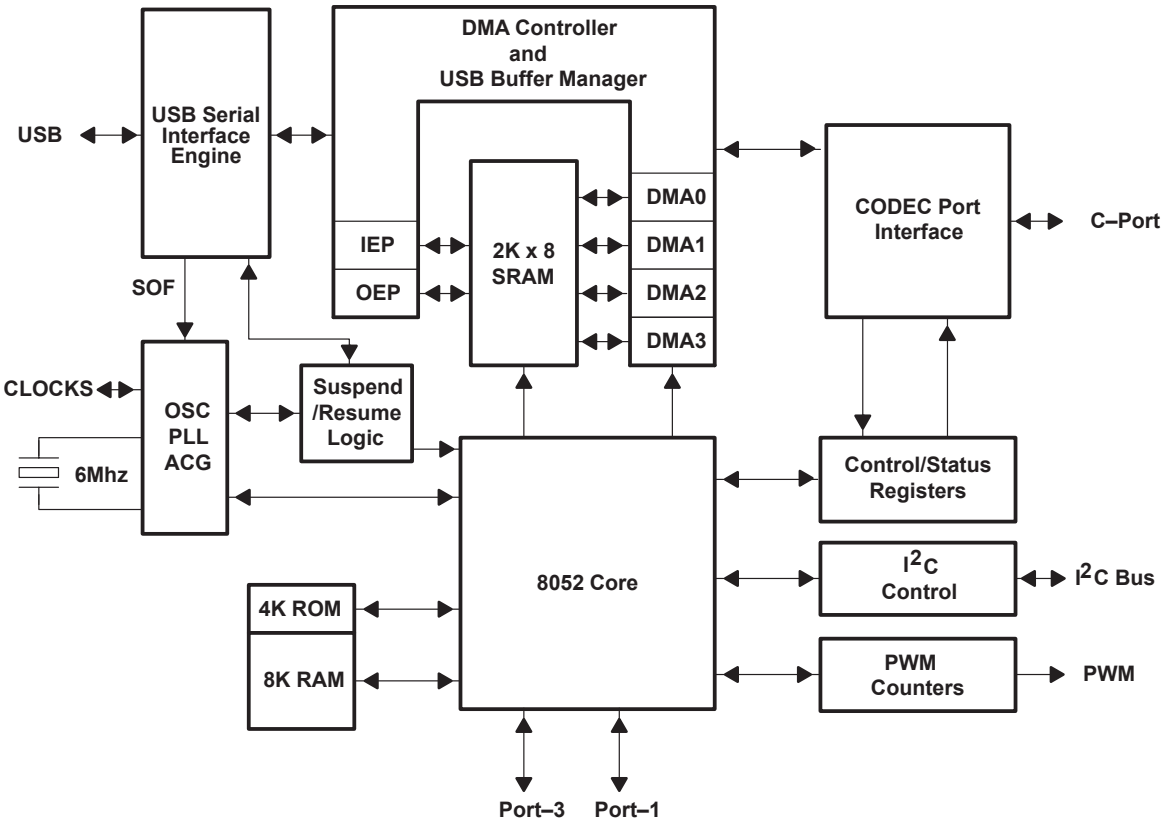
## (BA05FP-E2,TO-252 (IC3)

●Block diagram



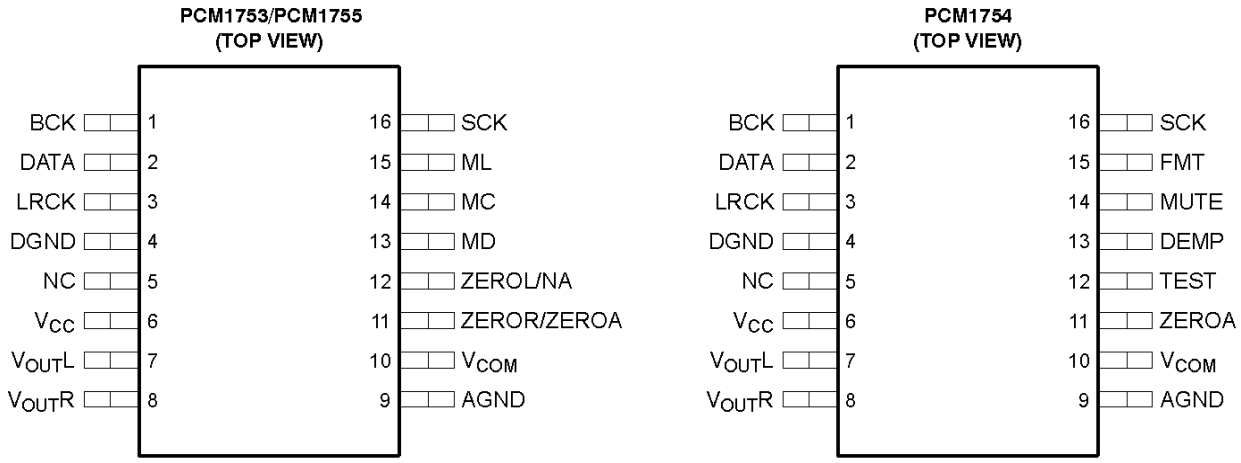
## TUSB3200ACPAH,PQFP52 (IC302)

### Functional Block Diagram

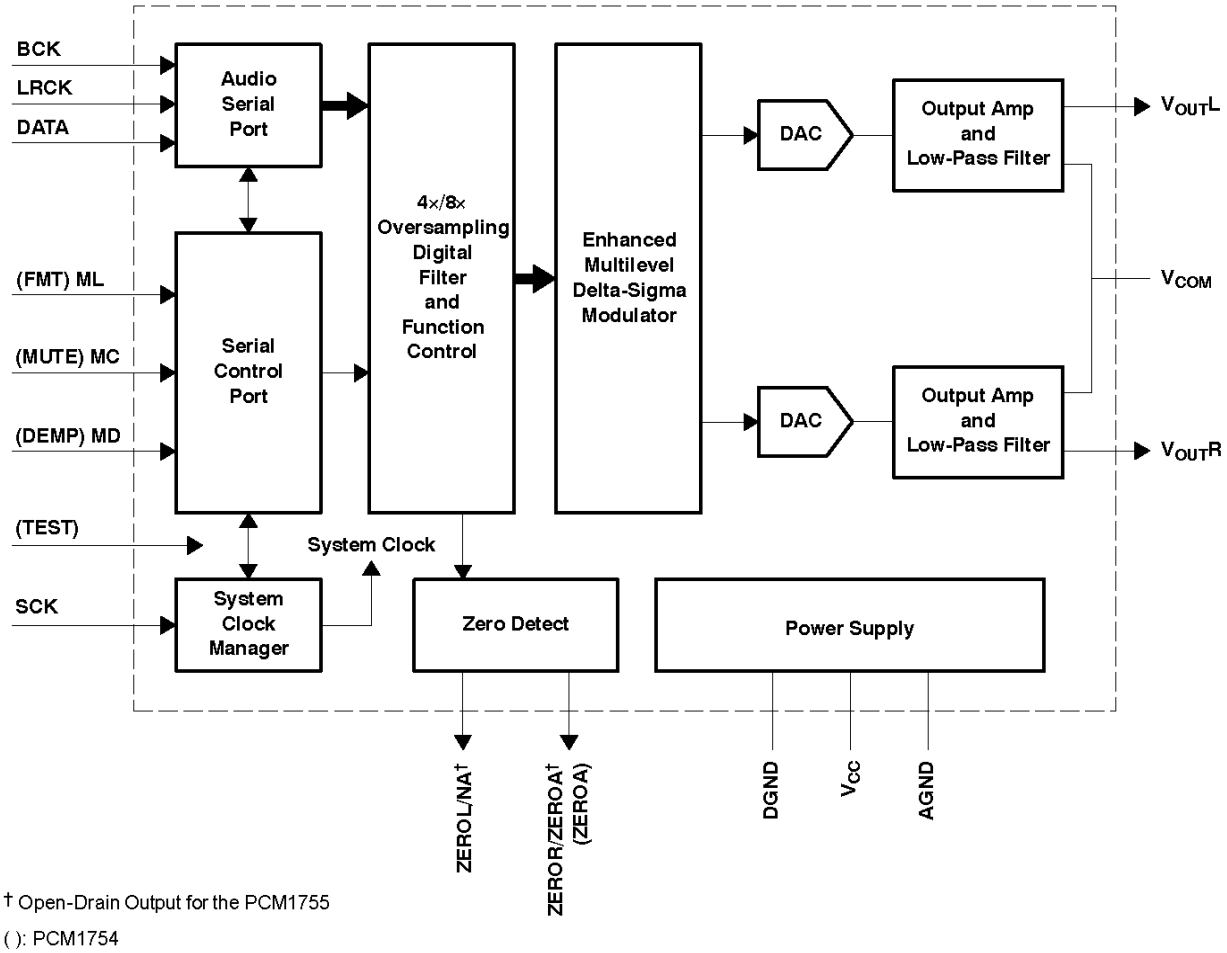


## PCM1755DBQR,SSOP-16 TI (IC300/IC301)

### PIN ASSIGNMENTS




### FUNCTIONAL BLOCK DIAGRAM




† Open-Drain Output for the PCM1755

( ): PCM1754

## 74HC4052D/74HC4052DT,SMD (IC402/IC403)

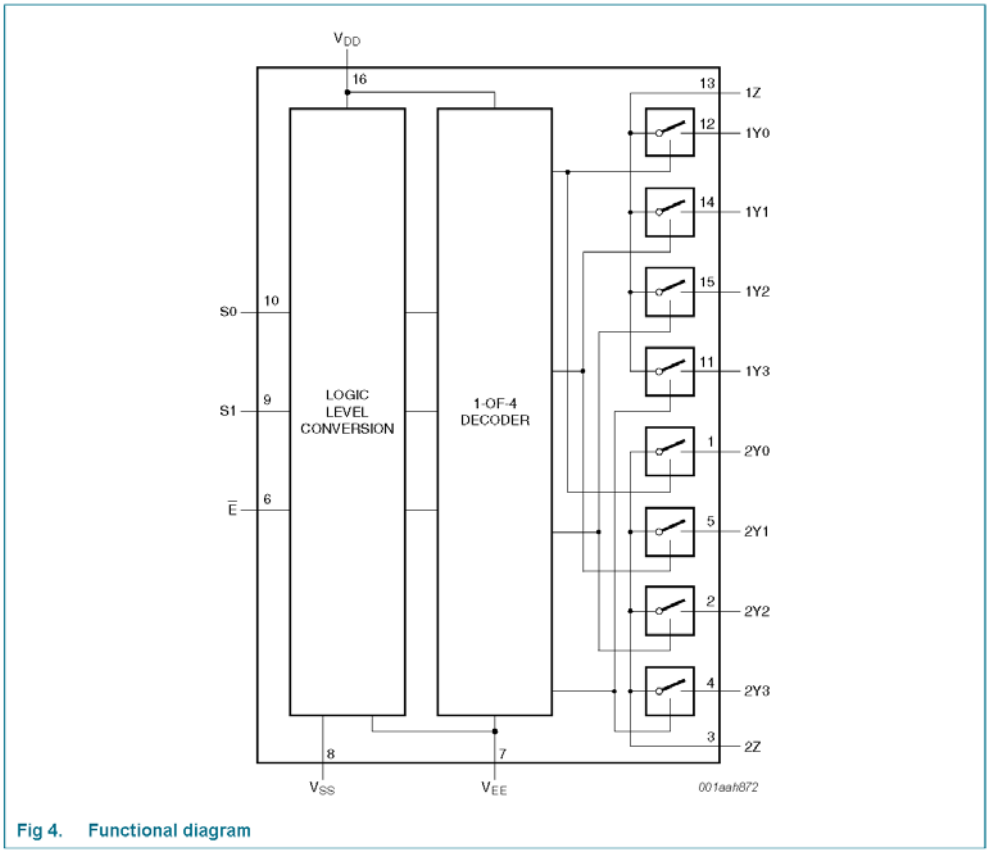
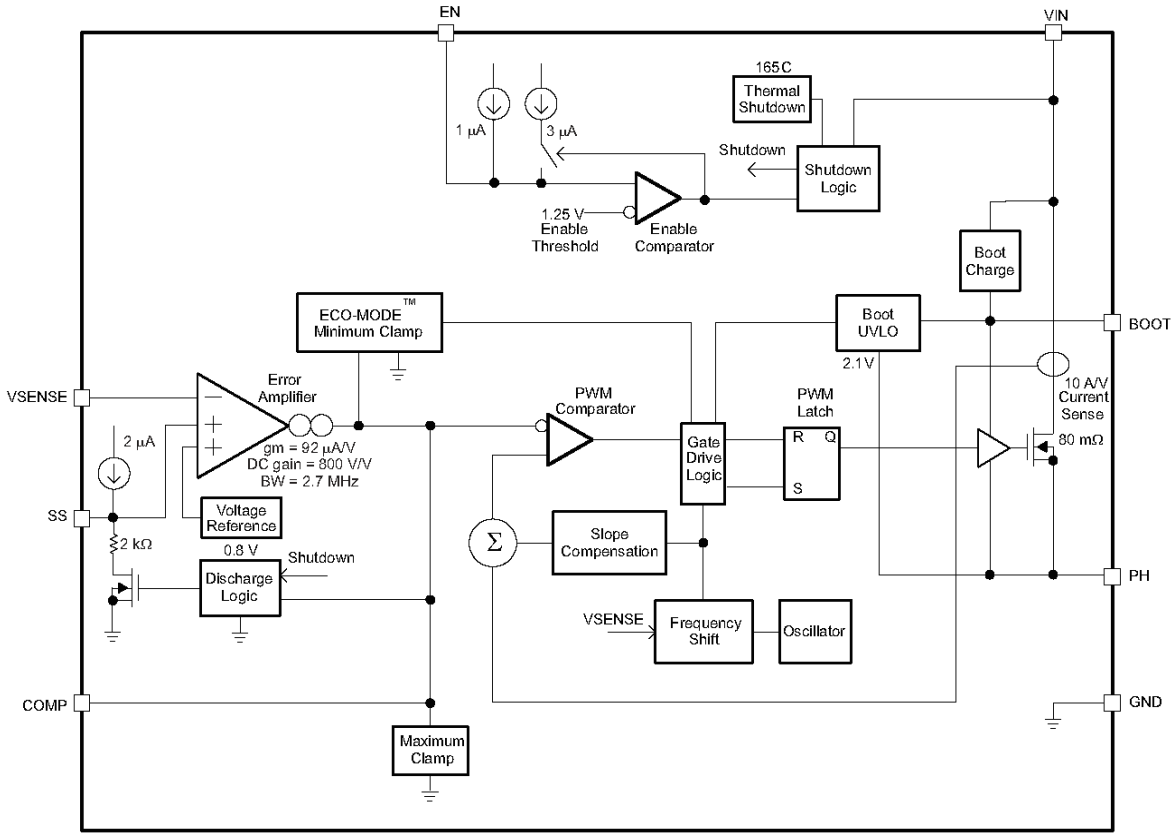



Fig 4. Functional diagram

## TPS54232 (IC2)



## STM8S207M Terminal Functions (IC400)

STM8S207M

| Pin number | Pin name | Type | Input/Output | Main Function |
|---|---|---|---|---|
| 1 | NRST | I/O | | Reset |
| 2 | PA1/OSCIN | I/O | | Resonator/crystal in |
| 3 | PA2/OSCOUT | I/O | | Resonator/crystal out |
| 4 | VSSIO_1 | S | | I/O ground |
| 5 | VSS | S | | Digital ground |
| 6 | VCAP | S | | 1.8 V regulator capacitor |
| 7 | VDD | S | | Digital power supply |
| 8 | VDDIO_1 | S | | I/O power supply |
| 9 | PA3/TIM2_CH3 | I/O | Output | X |
| 10 | PA4/UART1_RX | I/O | Output | X |
| 11 | PA5/UART1_TX | I/O | Output | X |
| 12 | PA6/UART1_CK | I/O | Output | X |
| 13 | PH0 | I/O | Output | X |
| 14 | PH1 | I/O | Output | X |
| 15 | PH2 | I/O | Output | PH2(A) |
| 16 | PH3 | I/O | Output | PH3(B) |
| 17 | PF7/AIN15 | I/O | Output | X |
| 18 | PF6/AIN14 | I/O | Output | X |
| 19 | PF5/AIN13 | I/O | Output | X |
| 20 | PF4/AIN12 | I/O | Output | PF4(MIC SW) |
| 21 | PF3/AIN11 | I/O | Input | AIN11(MIC_L) |
| 22 | VREF+ | S | | ADC positive reference voltage |
| 23 | VDDA | S | | Analog power supply |
| 24 | VSSA | S | | Analog ground |
| 25 | VREF- | S | | ADC negative reference voltage |
| 26 | PF0/AIN10 | I/O | Input | AIN10(CROF) |
| 27 | PB7/AIN7 | I/O | Input | AIN7(AD7) |
| 28 | PB6/AIN6 | I/O | Input | AIN6(AD6) |
| 29 | PB5/AIN5 | I/O | Input | AIN5(AD5) |
| 30 | PB4/AIN4 | I/O | Input | AIN4(AD4) |
| 31 | PB3/AIN3 | I/O | Input | AIN3(AD3) |
| 32 | PB2/AIN2 | I/O | Input | AIN2(AD2) |
| 33 | PB1/AIN1 | I/O | Input | AIN1(AD1) |
| 34 | PB0/AIN0 | I/O | Input | AIN0(AD0) |
| 35 | PH4/TIM1_ETR | I/O | Output | X |
| 36 | PH5/ TIM1_CH3N | I/O | Output | X |
| 37 | PH6/ TIM1_CH2N | I/O | Output | X |
| 38 | PH7/ TIM1_CH1N | I/O | Output | X |
| 39 | PE7/AIN8 | I/O | Input | AIN8(MIR,CUER) |
| 40 | PE6/AIN9 | I/O | Input | AIN9(MIL,CUEL) |
| 41 | PE5/SPI_NSS | I/O | Output | X |
| 42 | PC0/ADC_ETR | I/O | Input | PC0(PA1) |
| 43 | PC1/TIM1_CH1 | I/O | Input | PC1(PB1) |
| 44 | PC2/TIM1_CH2 | I/O | Input | PC2(PA2) |

STM8S207M

| Pin number | Pin name | Type | Input/Output | Main Function |
|---|---|---|---|---|
| 45 | PC3/TIM1_CH3 | I/O | Input | PC3(PB2) |
| 46 | PC4/TIM1_CH4 | I/O | Output | PC4(STCP) |
| 47 | PC5/SPI_SCK | I/O | Output | PC5(SHCP) |
| 48 | VSSIO_2 | S | | I/O ground |
| 49 | VDDIO_2 | S | | I/O power supply |
| 50 | PC6/SPI_MOSI | I/O | Output | PC6(DS) |
| 51 | PC7/SPI_MISO | I/O | Output | PC7(/INT) |
| 52 | PG0/CAN_TX | I/O | Input | PG0(KR1) |
| 53 | PG1/CAN_RX | I/O | Input | PG1(KR2) |
| 54 | PG2 | I/O | Input | PG2(KR3) |
| 55 | PG3 | I/O | Input | PG3(KR4) |
| 56 | PG4 | I/O | Input | PG4(KR5) |
| 57 | PI0 | I/O | Output | PI0(DUK) |
| 58 | PI1 | I/O | Output | X |
| 59 | PI2 | I/O | Output | X |
| 60 | PI3 | I/O | Output | X |
| 61 | PI4 | I/O | Output | X |
| 62 | PI5 | I/O | Input | PI5(Master) |
| 63 | PG5 | I/O | Input | PG5(KR6) |
| 64 | PG6 | I/O | Input | PG6(KR7) |
| 65 | PG7 | I/O | Input | PG7(KR8) |
| 66 | PE4 | I/O | Input | PE4(KR9) |
| 67 | PE3/TIM1_BKIN | I/O | Output | PE3(/RST) |
| 68 | PE2/I2C_SDA | I/O | Input/Output | PE2(SDA) |
| 69 | PE1/I2C_SCL | I/O | Input | PE1(SCL) |
| 70 | PE0/CLK_CCO | I/O | Input | PE0(EN1) |
| 71 | PI6 | I/O | Input | PI6(EN2) |
| 72 | PI7 | I/O | Output | PI7(KS1) |
| 73 | PD0/TIM3_CH2 | I/O | Output | PD0(KS2) |
| 74 | PD1/SWIM | I/O | | SWIM data interface |
| 75 | PD2/TIM3_CH1 | I/O | Output | PD2(KS3) |
| 76 | PD3/TIM2_CH2 | I/O | Output | PD3(KS4) |
| 77 | PD4/TIM2_CH1/BEEP | I/O | Output | PD4(KS5) |
| 78 | PD5/ UART3_TX | I/O | Output | PD5(KS6) |
| 79 | PD6/UART3_RX | I/O | Output | PD6(KS7) |
| 80 | PD7/TLI | I/O | Output | PD7(KS8) |

## PCM1755D (IC300/IC301)

| TERMINAL NO. | TERMINAL NAME | I/O | DESCRIPTION |
|---|---|---|---|
| 1 | BCK | I | Audio data bit clock input |
| 2 | DATA | I | Audio data digital input |
| 3 | LRCK | I | L-channel and R-channel audio data latch enable input |
| 4 | DGND | | Digital ground |
| 5 | NC | | |
| 6 | VCC | | Analog power supply, 5 V |
| 7 | VOUTL | O | Analog output for L-channel |
| 8 | VOUTR | O | Analog output for R-channel |
| 9 | AGND | | Analog ground |
| 10 | VCOM | | Common voltage decoupling |
| 11 | ZEROR/ZEROA | O | Zero flag output for R-channel/Zero flag output for L-/R-channels (2) |
| 12 | ZEROL/NA | O | Zero flag output for L-channel/Not assigned (2) |
| 13 | MD | I | Mode control data input (1) |
| 14 | MC | I | Mode control clock input(1) |
| 15 | ML | I | Mode control latch input (1) |
| 16 | SCK | I | System clock input |

# PARTS LIST OF P.C.B. UNIT

∗Parts indicated by "nsp" on this table cannot be supplied.
∗The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

**Note:** The symbols in the column "Remarks" indicate the following destinations.
E3 : U.S.A. & Canada model E2 : Europe model
E1C : China model JP : Japan model
BK : Black model SP : Premium Silver model

## CONTROL P.C.B ASS'Y

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| **SEMICONDUCTORS GROUP** | | | | | | | |
| | D400-422 | nsp | SWITCHING DIODE(ISS355VM 1.7*1.25MM) | | 414-CD1000-075A | 1 | |
| | D423 | nsp | SWITCHING DIODE( ISS133 T-77) | | 414-3113-005 | 1 | |
| | D424-444 | nsp | SWITCHING DIODE(ISS355VM 1.7*1.25MM) | | 414-CD1000-075A | 1 | |
| | D445 | nsp | SWITCHING DIODE( ISS133 T-77) | | 414-3113-005 | 1 | |
| | D446 | nsp | SWITCHING DIODE(ISS355VM 1.7*1.25MM) | | 414-CD1000-075A | 1 | |
| | D447 | nsp | SWITCHING DIODE( ISS133 T-77) | | 414-3113-005 | 1 | |
| | D448-455 | nsp | SWITCHING DIODE(ISS355VM 1.7*1.25MM) | | 414-CD1000-075A | 1 | |
| | D456-459 | 941622100050P | SENSOR(LTH-301-07) | | 417-HDJ2000-411 | 1 | |
| | D460,D461 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D462 | 941263100690P | LED ( L-7104QBD/TB/TD-D,BLUE ) | | 410-MU12B1-389 | 1 | * |
| | D463 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D464-D467 | 941263100690P | LED ( L-7104QBD/TB/TD-D,BLUE ) | | 410-MU12B1-389 | 1 | * |
| | D468 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D469 | 941263004190P | LED ( LTL1CHJSDNN,YELLOW ) | | 410-HDJ2000-162 | 1 | |
| | D470,D471 | 941263004180P | LED(YELLOW GREEN,LTL-1CHJGDNN, ∮ 3.1) | | 410-DJ5000-252 | 1 | |
| | D472,D473 | 941263004190P | LED ( LTL1CHJSDNN,YELLOW ) | | 410-HDJ2000-162 | 1 | |
| | D474,D475 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D476,D477 | 941263004180P | LED(YELLOW GREEN,LTL-1CHJGDNN, ∮ 3.1) | | 410-DJ5000-252 | 1 | |
| | D478 | 941263004190P | LED ( LTL1CHJSDNN,YELLOW ) | | 410-HDJ2000-162 | 1 | |
| | D479 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D480,D481 | 941263100690P | LED ( L-7104QBD/TB/TD-D,BLUE ) | | 410-MU12B1-389 | 1 | * |
| | D482 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D483 | 941263004190P | LED ( LTL1CHJSDNN,YELLOW ) | | 410-HDJ2000-162 | 1 | |
| | D484,D485 | 941263100690P | LED ( L-7104QBD/TB/TD-D,BLUE ) | | 410-MU12B1-389 | 1 | * |
| | D486 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D487 | 941263100690P | LED ( L-7104QBD/TB/TD-D,BLUE ) | | 410-MU12B1-389 | 1 | * |
| | D488-D490 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D489 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D491 | 941263004190P | LED ( LTL1CHJSDNN,YELLOW ) | | 410-HDJ2000-162 | 1 | |
| | D492-D498 | 941263100680P | LED(LTL1CHJEDNN,RED) | | 410-DJ5000-253 | 1 | * |
| | D460-D498 | nsp | LED HOLDER(LED3-1A-B,H=1.5mm,BLACK) | | 504-HDJ2000-097 | 1 | |
| | D499 | nsp | DIODE(SMAJ6.0A,400W/6.0V,DO-214AC) | | 414-UDJ200-284 | 1 | |
| | D500-503 | 941209000470S | ESD DIODE(RSB6.8S 150mW.6.8V EMD2 ROHM) | | 414-DJ1100G-207 | 1 | |
| | | | | | | | |
| | IC400 | 941243101300P | CONTROL IC ASS'Y | | 704-MC2000-A349 | 1 | * |
| | IC402,403 | nsp | IC(74HC4052D/74HC4052DT,SMD) | | 417-QSPAND-432 | 1 | |
| | IC404 | 00D9587058709 | IC(74AHC595DR,SOP-16) | | 417-HDJ9800-643 | 1 | |
| | IC405,406 | 941243004220P | IC(PIC16F616-I/SL,SOIC-16) | | 417-RMP3-936 | 1 | |
| | | | | | | | |
| | Q400-405 | 941212004520P | CHIP TRANSISTOR(2SB1424T100R) | | 416-MC6000-375 | 1 | |
| | Q406-409 | 941213500220P | TRANSISTOR(TR DTC124EKAT146 SMT3) | | 416-CDN88-044 | 1 | |
| | Q410-417 | 941214004530P | CHIP TRANSISTOR(2SD1757KT146R,SMT3) | | 416-MC6000-374 | 1 | |
| | | | | | | | |
| | ZD400-403 | 941202500510P | ESD DIODE(EDZCTE616.8B,150MW/6.93V,EMD2) | | 414-RMP3-285 | 1 | △3 |
| | | | | | | | |
| | | | | | | | |
| **CAPACITORS GROUP** | | | | | | | |
| | C400,401 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C405-408 | nsp | CHIP CAPACITOR(3300pF/50V,K,0603 TAP,X7R) | | 413-DCM280-770 | 1 | |
| | C409 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | |
| | C410,411 | nsp | CHIP CAPACITOR(3300pF/50V,K,0603 TAP,X7R) | | 413-DCM280-770 | 1 | |
| | C413 | nsp | CHIP CAPACITOR(3300pF/50V,K,0603 TAP,X7R) | | 413-DCM280-770 | 1 | |
| | C414 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | |
| | C415 | nsp | CHIP CAPACITOR(3300pF/50V,K,0603 TAP,X7R) | | 413-DCM280-770 | 1 | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | C416 | nsp | ELEC. CAPACITOR(470uF/10V,M, 105°C,TAPING 8*12) (Cd,Pb,Hg,Cr) | | 413-HT8015-169 | 1 | |
| | C419 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C422-436 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | |
| | C437-440 | nsp | CERAMIC CAPACITOR(0.01uF/50V,Z,TAPING,Z5V) | | 413-3113-028 | 1 | |
| | C441-443 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | |
| | C444,445 | nsp | CERAMIC CAPACITOR(0.01uF/50V,Z,TAPING,Z5V) | | 413-3113-028 | 1 | |
| | C446 | 941135500070P | TANTALUM CAPACITOR(0.68uF/50V,K,TAPING) | | 413-MAIE-1211 | 1 | |
| | C447 | nsp | CHIP CAPACITOR(0.47uF/16V,Z) | | 413-U101-928 | 1 | |
| | C448-450 | nsp | ELEC. CAPACITOR(100uF/10V,M,105°C,TAPING 5*11) (Cd,Pb,Hg,Cr) | | 413-3113-046 | 1 | |
| | C451-456 | nsp | CHIP CAPACITOR(2200pF/50V,J,0603 TAP,X7R) | | 413-007USB-788 | 1 | |
| | C457 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C458 | nsp | CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V) | | 413-3113-035 | 1 | |
| | C459-461 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C462-465 | nsp | CHIP CAPACITOR(1uF/16V,Z,0603 TAP,Y5V) | | 413-007USB-797 | 1 | |
| | C466 | nsp | ELEC. CAPACITOR(2.2uF/50V,M,105°C,TAPING 5*11) | | 413-3113-045 | 1 | |
| | C467,468 | nsp | CHIP CAPACITOR(1000pF/50V,K,0603 TAP,X7R) | | 413-DCM280-768 | 1 | |
| | C469-476 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | |
| | C480-485 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | | | | | | | |
| | | | | | | | |
| **RESISTORS GROUP** | | | | | | | |
| | R400,401 | nsp | CHIP RESISTOR(4.7K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-523 | 1 | |
| | R402 | nsp | CARBON FILM RESISTOR(390 OHM,1/6W,J,T-26) | | 412-3113-076 | 1 | |
| | R403-410 | nsp | CHIP RESISTOR(33OHM,1/10W,J,TP 0603,50V) | | 412-007USB-782 | 1 | |
| | R411 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | |
| | R413,414 | nsp | CARBON FILM RESISTOR(10K OHM,1/6W,J,T-26) | | 412-3113-068 | 1 | |
| | R415-426 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | |
| | R429 | nsp | CARBON FILM RESISTOR(680 OHM,1/6W,J,T-26) | | 412-3113-070 | 1 | |
| | R431-433 | nsp | CHIP RESISTOR(1K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-540 | 1 | |
| | R434-436 | nsp | CARBON FILM RESISTOR(1K OHM,1/6W,J,T-26) | | 412-3113-078 | 1 | |
| | R437-445 | nsp | CHIP RESISTOR(1K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-540 | 1 | |
| | R446-450 | nsp | CARBON FILM RESISTOR(1K OHM,1/6W,J,T-26) | | 412-3113-078 | 1 | |
| | R451,452 | nsp | CHIP RESISTOR(1K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-540 | 1 | |
| | R453 | nsp | CARBON FILM RESISTOR(1K OHM,1/6W,J,T-26) | | 412-3113-078 | 1 | |
| | R454,455 | nsp | CHIP RESISTOR(1K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-540 | 1 | |
| | R456-461 | nsp | CHIP RESISTOR(47K OHM,1/10W,0603,J,TP ,50V) | | 412-CDVD2001-532 | 1 | |
| | R462-465 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | |
| | R466-469 | nsp | CHIP RESISTOR(12K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-702 | 1 | |
| | R470-473 | nsp | CHIP RESISTOR(300OHM,1/10W,F,TP 0603,50V) | | 412-900-975 | 1 | |
| | R474 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | |
| | R475-482 | nsp | CHIP RESISTOR(4.7K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-523 | 1 | |
| | R483,484 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R485-488 | nsp | CARBON FILM RESISTOR(680 OHM,1/6W,J,T-26) | | 412-3113-070 | 1 | |
| | R489 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R490 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R491,492 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R493 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R494,495 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R496 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R497 | nsp | CARBON FILM RESISTOR(220 OHM,1/6W,J,T-26) | | 412-3113-058 | 1 | |
| | R498 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R499,500 | nsp | CHIP RESISTOR(180OHM,1/10W,F,TP 0603,50V) | | 412-900-1014 | 1 | |
| | R501,502 | nsp | CHIP RESISTOR(220 OHM,1/10W,0603 ,J,TP 50V) | | 412-CDVD2001-521 | 1 | |
| | R503 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R504 | nsp | CHIP RESISTOR(220 OHM,1/10W,0603 ,J,TP 50V) | | 412-CDVD2001-521 | 1 | |
| | R505,506 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R507,508 | nsp | CHIP RESISTOR(180OHM,1/10W,F,TP 0603,50V) | | 412-900-1014 | 1 | |
| | R509,510 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R511 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R512 | nsp | CHIP RESISTOR(220 OHM,1/10W,0603 ,J,TP 50V) | | 412-CDVD2001-521 | 1 | |
| | R513 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R514,515 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R516 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R517 | nsp | CHIP RESISTOR(510 OHM 1/10W J TP 0603 50V) | | 412-007USB-780 | 1 | |
| | R518-520 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| | R521 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R522 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R523 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | |
| | R524 | nsp | CHIP RESISTOR(220 OHM,1/10W,0603 ,J,TP 50V) | | 412-CDVD2001-521 | 1 | |
| | R525-527 | nsp | CHIP RESISTOR(270 OHM,1/10W,J,TP ,50V) | | 412-007USB-698 | 1 | |
| | R528,529 | nsp | CHIP RESISTOR(51KOHM,1/10W,J,TP 0603,50V) | | 412-900-977 | 1 | |
| | R530,531 | nsp | CARBON FILM RESISTOR(20K OHM,1/6W,J,T-26) | | 412-STR880-482 | 1 | |
| | R532,533 | nsp | CHIP RESISTOR(2.4Kohm,1/10W,J,TP 0603,50V) | | 412-MH2-1135 | 1 | |
| | R534,535 | nsp | CARBON FILM RESISTOR(1K OHM,1/4W,J,T-26) | | 412-3113-080 | 1 | |
| | R545-548 | nsp | CHIP RESISTOR(1K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-540 | 1 | |
| | R549,550 | nsp | CARBON FILM RESISTOR(1K OHM,1/6W,J,T-26) | | 412-3113-078 | 1 | |
| | R551,552 | nsp | CARBON FILM RESISTOR(10 OHM,1/6W,J,T-26) | | 412-KC220-132 | 1 | |
| | R553 | nsp | CARBON FILM RESISTOR(1K OHM,1/6W,J,T-26) | | 412-3113-078 | 1 | |
| | R554 | nsp | CARBON FILM RESISTOR(390 OHM,1/6W,J,T-26) | | 412-3113-076 | 1 | |
| | | | | | | | |
| | VR401,402 | 941674004630P | SLIDE VR(RF45112G400D,20K(2)B*2,L=22.5) | | 418-MC6000-637 | 1 | |
| | VR403 | 941671004550P | ROTARY VR(20K(B)*2,RD901F-40-20F-B20K-00DH2) | | 418-K1000-413 | 1 | |
| | VR404-406 | 941671004600P | ROTARY VR(RD901F-40-20FP-B20K-0CDJ8,L=20) | | 418-MC6000-639 | 1 | |
| | VR407 | 941671004550P | ROTARY VR(20K(B)*2,RD901F-40-20F-B20K-00DH2) | | 418-K1000-413 | 1 | |
| | VR408-410 | 941671004600P | ROTARY VR(RD901F-40-20FP-B20K-0CDJ8,L=20) | | 418-MC6000-639 | 1 | |
| | VR411-418 | 941671004550P | ROTARY VR(20K(B)*2,RD901F-40-20F-B20K-00DH2) | | 418-K1000-413 | 1 | |
| | VR419 | 941671004540P | ROTARY VR(RD901F-40-16F-B20K-0CDJ8,L=16) | | 418-MC6000-643 | 1 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| **OTHERS PARTS GROUP** | | | | | | | |
| | CN300A | 941644101430P | 14P 1.0 FFC SOCKET(1.0D-14PBS) | | 404-3000-3620 | 1 | |
| | CN400 | nsp | 3P 2.0 CONNECTOR WIRE(UL2468#26*3C TC 90。) | | 404-F300-3302 | 1 | |
| | | | | | | | |
| | J027 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J085 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J102-105 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J107 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J154 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J165 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J184 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J209 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | J214,215 | nsp | CHIP RESISTOR(0 OHM,1/4W,J,1206,200V) | | 412-DJ3000-414 | 1 | |
| | | | | | | | |
| | L400,401 | nsp | POWER CHOKE(22uH,1.11A) | | 415-MC6000-356 | 1 | |
| | L402 | nsp | INDUCTOR(10uH T-26mm) | | 415-MPG100-047 | 1 | |
| | L403,404 | nsp | INDUCTANCE(100uH J 0707-444-W077) | | 415-HT8015-040 | 1 | |
| | | | | | | | |
| | P400,401 | 941674004620P | SLIDE VR(RF60112L4103,10K(2BM)*2,L=23) | | 418-MC6000-636 | 1 | |
| | | | | | | | |
| | SW400-448 | nsp | TACT SW(H=4.3) | | 403-MC2-383 | 1 | |
| | SW449-451 | 941667004160P | ENCODER(RE111F-41B1-19F-20P-030,H=7) | | 403-SC2000-380 | 1 | |

## I/O P.C.B ASS'Y

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| **SEMICONDUCTORS GROUP** | | | | | | | |
| | D002-004 | nsp | DIODE(1N5819(GW)/1N5819,TAPING 52mm) | | 414-DFX1-144 | 1 | |
| | D006,007 | nsp | SWITCHING DIODE(ISS355VM 1.7*1.25MM) | | 414-CD1000-075A | 1 | |
| | D030 | nsp | DIODE(1N5819(GW)/1N5819,TAPING 52mm) | | 414-DFX1-144 | 1 | |
| | D301 | nsp | DIODE(1N5819(GW)/1N5819,TAPING 52mm) | | 414-DFX1-144 | 1 | |
| | D302-305 | nsp | ESD DIODE(RSB6.8S 150mW.6.8V EMD2 ROHM) | | 414-DJ1100G-207 | 1 | |
| | D306,307 | nsp | DIODE(SMAJ6.0A,400W/6.0V,DO-214AC) | | 414-UDJ200-284 | 1 | |
| | D308-311 | 941209000470S | ESD DIODE(RSB6.8S 150mW.6.8V EMD2 ROHM) | | 414-DJ1100G-207 | 1 | |
| | | | | | | | |
| | IC002 | 941239100890P | IC(SOP8,TPS54232) | | 417-PDJ33-1045 | 1 | * |
| | IC003 | 00D2631078904 | IC(BA05FP-E2,TO-252) | | 417-U101-497 | 1 | |
| | IC004 | 941239100860P | IC(TPS61085DGKR,MSOP-8) | | 417-200USB-1071 | 1 | * |
| | IC005 | 941239003100S | IC(BD4740G) | | 417-9000-740 | 1 | * |
| | IC006 | 941231101260P | IC(LD1117AC-ADJ-AA3,SOT-223) | | 417-100U-795V | 1 | * |
| | IC100-102 | 00D9587036200 | IC(NJM-4580M-TE2,SOP-8) | | 417-ST150-599 | 1 | |
| | IC103 | 941232100320P | IC(NJM-2068M-TE2,SOP8) | | 417-M5-582 | 1 | * |
| | IC104-108 | 00D9587036200 | IC(NJM-4580M-TE2,SOP-8) | | 417-ST150-599 | 1 | |
| | IC109 | 941232100300P | IC(NJM4556AD,DIP-8) | | 417-3113-018 | 1 | |
| | IC300,301 | 941239100880P | IC(PCM1755DBQR,SSOP-16 TI) | | 417-HP400U-995 | 1 | * |
| | IC302 | 941239004760P | IC(TUSB3200ACPAH,PQFP52,) | | 417-DAIA-711 | 1 | |
| | IC304 | 941239100870P | IC(ICS501MLFT) | | 417-22SM-982 | 1 | * |
| | | | | | | | |
| | Q001,002 | 941213500220P | TRANSISTOR(TR DTC124EKAT146 SMT3) | | 416-CDN88-044 | 1 | * |
| | Q003 | 941219500070P | TRANSISTOR(RTR030P02TL,TSMT3) | | 416-UDJ200-347 | 1 | * |
| | Q004 | 941211500180P | CHIP TRANSISTOR(DTA124TKAT146) | | 416-HDJ9700-210 | 1 | * |
| | Q005 | 00D9410046309 | TRANSISTOR(TR 2SA1037AKR SMT3) | | 416-CDN88-045 | 1 | |
| | Q006 | 941229004820P | CHIP TRANSISTOR(RTR030N05TL,TSMT3) | | 416-MC6000-373 | 1 | |
| | Q102,103 | 941214500170P | TRANSISTOR(2SD2704KT146,SMT3) | | 416-3000-378 | 1 | |
| | Q106-111 | 941214500170P | TRANSISTOR(2SD2704KT146,SMT3) | | 416-3000-378 | 1 | |
| | Q300,301 | 941213500230P | CHIP TRANSISTOR(DTC124TKA) | | 416-DFX1-201 | 1 | * |
| | Q302 | 941211500180P | CHIP TRANSISTOR(DTA124TKAT146) | | 416-HDJ9700-210 | 1 | * |
| | | | | | | | |
| | ZD300 | 941202500510P | ESD DIODE(EDZCTE616.8B,150MW/6.93V,EMD2) | | 414-RMP3-285 | 1 | * |
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| **CAPACITORS GROUP** | | | | | | | |
| | C002 | nsp | CHIP CAPACITOR(10uF/25V,1206 TAP,Y5V,Z) | | 413-MC6000-1180 | 1 | |
| | C003 | nsp | CHIP CAPACITOR(4.7uF/16V,Z,1206 TAP,Y5V) | | 413-007USB-777 | 1 | |
| | C005,006 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C008 | nsp | CHIP CAPACITOR(0.015uF/50V,M,0603 TAP,Y5V) | | 413-M207-1090 | 1 | |
| | C010-012 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C015 | nsp | CHIP CAPACITOR(270pF/50V,J,0603 TAP,NPO) | | 413-U5000-1004 | 1 | |
| | C017-019 | nsp | CHIP CAPACITOR(10uF/25V,1206 TAP,Y5V,Z) | | 413-MC6000-1180 | 1 | |
| | C020 | nsp | ELEC. CAPACITOR(100uF/10V,M,105°C,TAPING 5*11) (Cd,Pb,Hg,Cr) | | 413-3113-046 | 1 | |
| | C023 | nsp | CHIP CAPACITOR(12pF,50V,J,0603 TAP,NPO) | | 413-DCM280-809 | 1 | |
| | C025 | nsp | CHIP CAPACITOR(10uF/25V,1206 TAP,Y5V,Z) | | 413-MC6000-1180 | 1 | |
| | C026 | nsp | CHIP CAPACITOR(1200pF/50V,K,0603 TAPING,X7R) | | 413-ME2-1049 | 1 | |
| | C027,028 | nsp | ELEC. CAPACITOR(22uF/16V,M,105°C,TAPING 5*11) | | 413-HT8015-163 | 1 | |
| | C029 | nsp | ELEC. CAPACITOR(330uF/16V,M, 105°C,TAPING 8*11) (Cd,Pb,Hg,Cr) | | 413-HP1010K-200 | 1 | |
| | C031-034 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C035 | nsp | ELEC. CAPACITOR(22uF/25V,M,105°C,TAPING 5*11) (Cd,Pb,Hg,Cr) | | 413-DV330-332 | 1 | |
| | C036 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | |
| | C100,101 | nsp | CHIP CAPACITOR(470pF/50V,J,0603 TAP,NPO) | | 413-007USB-786 | 1 | |
| | C102,103 | nsp | CHIP CAPACITOR(100pF/50V,J,0603 TAP,NPO) | | 413-DCM280-767 | 1 | |
| | C104,105 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C106,107 | nsp | CHIP CAPACITOR(82pF/50V,J,0603 TAP,NPO) | | 413-007USB-827 | 1 | |
| | C108,109 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C110,111 | nsp | CHIP CAPACITOR(680pF/50V,J,0603 TAP,NPO) | | 413-007USB-785 | 1 | |
| | C112,113 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C114,115 | nsp | CHIP CAPACITOR(220pF/50V,J,0603 TAP,NPO) | | 413-007USB-787 | 1 | |
| | C116,117 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | |
| | C118,119 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | |
| | C120,121 | nsp | CHIP CAPACITOR(68pF/50V,J,0603 TAP,NPO) | | 413-DCM280-766 | 1 | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New | |
|---|---|---|---|---|---|---|---|---|
| | C122 | nsp | CHIP CAPACITOR(330pF/50V,J,0603 TAP,NPO) | | 413-900-925 | 1 | | |
| | C123,124 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C125,126 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | | |
| | C127,128 | nsp | CHIP CAPACITOR(3300pF/50V,K,0603 TAP,X7R) | | 413-DCM280-770 | 1 | | |
| | C129,130 | nsp | CHIP CAPACITOR(470pF/50V,J,0603 TAP,NPO) | | 413-007USB-786 | 1 | | |
| | C131,132 | nsp | CHIP CAPACITANCE(560pF/50V,J,NPO,0603 TAP) | | 413-TU3-1104 | 1 | | |
| | C133,134 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | | |
| | C135,136 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C137-142 | nsp | ELEC. CAPACITOR(22uF/16V,M,105°C,TAPING 5*11) | | 413-HT8015-163 | 1 | | |
| | C143,144 | nsp | CHIP CAPACITOR(820pF/50V,J,0603 TAP,NPO) | | 413-40MIDI-1142 | 1 | | |
| | C145,146 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C147,148 | nsp | ELEC. CAPACITOR(3.3uF/50V,M,105°C,TAPING 5*11) | | 413-HP1010K-202 | 1 | | |
| | C149,150 | nsp | CHIP CAPACITOR(470pF/50V,J,0603 TAP,NPO) | | 413-007USB-786 | 1 | | |
| | C151,152 | nsp | ELEC. CAPACITOR(2.2uF/50V,M,105°C,TAPING 5*11) | | 413-3113-045 | 1 | | |
| | C153-156 | nsp | CHIP CAPACITOR(470pF/50V,J,0603 TAP,NPO) | | 413-007USB-786 | 1 | | |
| | C157,158 | nsp | CHIP CAPACITOR(82pF/50V,J,0603 TAP,NPO) | | 413-007USB-827 | 1 | | |
| | C159,160 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | | |
| | C161,162 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C163-166 | nsp | ELEC. CAPACITOR(22uF/16V,M,105°C,TAPING 5*11) | | 413-HT8015-163 | 1 | | |
| | C167,168 | nsp | CHIP CAPACITOR(820pF/50V,J,0603 TAP,NPO) | | 413-40MIDI-1142 | 1 | | |
| | C169,170 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C171,172 | nsp | ELEC. CAPACITOR(2.2uF/50V,M,105°C,TAPING 5*11) | | 413-3113-045 | 1 | | |
| | C173,174 | nsp | ELEC.CAPACITOR(100uF/16V,M,105°C,TAPING 5*11) | | 413-PXE90-109 | 1 | | |
| | C177,178 | nsp | CHIP CAPACITOR(270pF/50V,J,0603 TAP,NPO) | | 413-U5000-1004 | 1 | | |
| | C179,180 | nsp | CHIP CAPACITOR(82pF/50V,J,0603 TAP,NPO) | | 413-007USB-827 | 1 | | |
| | C300,301 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | | |
| | C302,303 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C304,305 | nsp | ELEC. CAPACITOR(330uF/10V,M, 105°C,TAPING 6.3*11)(Cd,Pb,Hg,Cr) | | 413-CDN34-355 | 1 | | |
| | C306,307 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | | |
| | C308-310 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C311 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | | |
| | C312-317 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | C318,319 | nsp | CHIP CAPACITOR(10uF/10V,Z,1206 TAP,Y5V) | | 413-007USB-796 | 1 | | |
| | C320,321 | nsp | CHIP CAPACITOR(33pF/50V,J,0603 TAP,NPO) | | 413-900-926 | 1 | | |
| | C322 | nsp | CHIP CAPACITOR(100pF/50V,J,0603 TAP,NPO) | | 413-DCM280-767 | 1 | | |
| | C323 | nsp | CHIP CAPACITOR(1000pF/50V,K,0603 TAP,X7R) | | 413-DCM280-768 | 1 | | |
| | C325 | nsp | CHIP CAPACITOR(0.01uF/50V,J,0603 TAP,NPO) | | 413-DCM280-889 | 1 | | |
| | C327 | nsp | CHIP CAPACITOR(1000pF/50V,K,0603 TAP,X7R) | | 413-DCM280-768 | 1 | | |
| | C329 | nsp | ELEC. CAPACTIOR(10uF/25V,M,105°C,TAPING 5*11) | | 413-3113-052 | 1 | | |
| | C330,331 | nsp | CHIP CAPACITOR(220pF/50V,J,0603 TAP,NPO) | | 413-007USB-787 | 1 | | |
| | C332-334 | nsp | CHIP CAPACITOR(0.1uF/50V,Z) | | 413-DCM280-773 | 1 | | |
| | | | | | | | | |
| | | | | | | | | |
| **RESISTORS GROUP** | | | | | | | | |
| | R004 | nsp | CHIP RESISTOR(47K OHM,1/10W,0603,J,TP ,50V) | | 412-CDVD2001-532 | 1 | | |
| | R005 | nsp | CHIP RESISTOR(18K OHM,1/10W, 0603,J,TP,50V) | | 412-007USB-703 | 1 | | |
| | R006 | nsp | CHIP RESISTOR(75K OHM,1/10W,J,TP 0603,50V) | | 412-1000-968 | 1 | | |
| | R007 | nsp | CHIP RESISTOR(18K OHM,1/10W, 0603,J,TP,50V) | | 412-007USB-703 | 1 | | |
| | R008 | nsp | CHIP RESISTOR(4.7K OHM,1/10W, 0603,J,TP,50V) | | 412-CDVD2001-523 | 1 | | |
| | R010 | nsp | CHIP RESISTOR(22K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-704 | 1 | | |
| | R011 | nsp | CHIP RESISTOR(3.3K OHM,1/10W, 0603,J,TP,50V) | | 412-007USB-699 | 1 | | |
| | R012 | nsp | CHIP RESISTOR(100 OHM,1/10W,J,TP,50V) | | 412-CDVD2001-530 | 1 | | |
| | R014 | nsp | CHIP RESISTOR(6.8K,1/10W,J,0603,50V) | | 412-900-985 | 1 | | |
| | R015 | nsp | CHIP RRESISTOR(48.7K OHM,1/10W,0603,F,TP ,50V) | | 412-X1100-1339 | 1 | | |
| | R016,017 | nsp | CHIP RESISTOR(47K OHM,1/10W,0603,J,TP ,50V) | | 412-CDVD2001-532 | 1 | | |
| | R018 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | | |
| | R019 | nsp | CHIP RESISTOR(15K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-687 | 1 | | |
| | R020 | nsp | CHIP RESISTOR(12K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-702 | 1 | | |
| | R021 | nsp | CHIP RESISTOR(27K OHM,1/10W, 0603,J,TP,50V) | | 412-007USB-675 | 1 | | |
| | R100-103 | nsp | CHIP RESISTOR(15K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1535 | 1 | * | ⚠2 |
| | R104,105 | nsp | CHIP RESISTOR(75K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1536 | 1 | * | ⚠2 |
| | R106,107 | nsp | CHIP RESISTOR(0 OHM,1/10W3,J,TP,50V) | | 412-CDVD2001-552 | 1 | | |
| | R108,109 | nsp | CHIP RESISTOR(8.2K,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1537 | 1 | * | ⚠2 |
| | R110,111 | nsp | CHIP RRESISTOR(20K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1539 | 1 | * | ⚠2 |
| | R112,113 | nsp | CHIP RESISTOR(75K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1536 | 1 | * | ⚠2 |
| | R114,115 | nsp | CHIP RESISTOR(0 OHM,1/10W3,J,TP,50V) | | 412-CDVD2001-552 | 1 | | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New | |
|---|---|---|---|---|---|---|---|---|
| | R116,117 | nsp | CHIP RESISTOR(470 OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1538 | 1 | * | ⚠2 |
| | R118,119 | nsp | CHIP RESISTOR(2.4K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1540 | 1 | * | |
| | R122,123 | nsp | CHIP RESISTOR(0 OHM,1/10W3,J,TP,50V) | | 412-CDVD2001-552 | 1 | | |
| | R124 | nsp | CHIP RESISTOR(910 OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-691 | 1 | | |
| | R125,126 | nsp | CHIP RRESISTOR(20K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1539 | 1 | * | ⚠2 |
| | R127-130 | nsp | CHIP RESISTOR(10K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1541 | 1 | * | ⚠2 |
| | R131 | nsp | CHIP RESISTOR(18K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1542 | 1 | * | ⚠2 |
| | R132 | nsp | CHIP RESISTOR(0 OHM,1/10W3,J,TP,50V) | | 412-CDVD2001-552 | 1 | | |
| | R133 | nsp | CHIP RESISTOR(200 OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1543 | 1 | * | ⚠2 |
| | R134 | nsp | CHIP RESISTOR(1.87KOHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1544 | 1 | * | ⚠2 |
| | R135,136 | nsp | CHIP RESISTOR(1.8K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1545 | 1 | * | ⚠2 |
| | R137,138 | nsp | CHIP RESISTOR(1.2K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1546 | 1 | * | ⚠2 |
| | R139,140 | nsp | CHIP RESISTOR(4.7K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1547 | 1 | * | ⚠2 |
| | R143-150 | nsp | CHIP RESISTOR(2.2K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1548 | 1 | * | ⚠2 |
| | R151,152 | nsp | CHIP RESISTOR(100K OHM,1/10W,0603 ,J,TP ,50V) | | 412-CDVD2001-537 | 1 | | |
| | R153,154 | nsp | CHIP RESISTOR(150 OHM,1/10W,0603,J,TP ,50V) | | 412-CD900-795 | 1 | | |
| | R155,156 | nsp | CHIP RESISTOR(1.2K OHM,1/10W,0603,J,TP, 50V) | | 412-007USB-671 | 1 | | |
| | R157,158 | nsp | CHIP RESISTOR(150 OHM,1/10W,0603,J,TP ,50V) | | 412-CD900-795 | 1 | | |
| | R159,160 | nsp | CHIP RESISTOR(24K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1549 | 1 | * | ⚠2 |
| | R161,162 | nsp | CHIP RESISTOR(6.8K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1550 | 1 | * | ⚠2 |
| | R163,164 | nsp | CHIP RESISTOR(33K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1551 | 1 | * | ⚠2 |
| | R167-172 | nsp | CHIP RESISTOR(2.2K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1548 | 1 | * | ⚠2 |
| | R173,174 | nsp | CHIP RESISTOR(10K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1541 | 1 | * | ⚠2 |
| | R175,176 | nsp | CHIP RESISTOR(2.7K OHM,1/10W,V,J,TP,50V) | | 412-007USB-677 | 1 | | |
| | R178,179 | nsp | CARBON FILM RESISTOR(4.7 OHM,1/4W,J,T-52) | | 412-KM501-293 | 1 | | |
| | R180,181 | nsp | CARBON FILM RESISTOR(6.8 OHM,1/4W,J,T-52) | | 412-IS303-1246 | 1 | | |
| | R182,183 | nsp | CHIP RESISTOR(330OHM,1/10W,J,TP 0603,50V) | | 412-900-983 | 1 | | |
| | R184,185 | nsp | CHIP RESISTOR(3.3K OHM,1/10W, 0603,J,TP,50V) | | 412-007USB-699 | 1 | | |
| | R186,187 | nsp | CHIP RESISTOR(15K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-687 | 1 | | |
| | R188,189 | nsp | CHIP RESISTOR(1.2K OHM,1/10W,0603,J,TP, 50V) | | 412-007USB-671 | 1 | | |
| | R190,191 | nsp | CHIP RESISTOR(0 OHM,1/10W3,J,TP,50V) | | 412-CDVD2001-552 | 1 | | |
| | R194,195 | nsp | CHIP RESISTOR(33K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1551 | 1 | * | ⚠2 |
| | R196,197 | nsp | CHIP RESISTOR(5.6K OHM,1/10W,0.5%,TP 0603,50V) | | 412-MC2-1552 | 1 | * | ⚠2 |
| | R198,199 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | | |
| | R200,201 | nsp | CHIP RESISTOR((33K OHM,1/10W,0603,J,TP ,50V) | | 412-007USB-705 | 1 | | |
| | R300 | nsp | CHIP RESISTOR(1 OHM,1/10W,0603,J, TP ,50V) | | 412-007USB-695 | 1 | | |
| | R301,302 | nsp | RESISTOR(27Ω,1/10W,J 0603 TP 50V) | | 412-H200U-1293 | 1 | | |
| | R303 | nsp | CHIP RESISTOR(1.5K OHM,1/10W,0603 ,J,TP ,50V) | | 412-CDVD2001-550 | 1 | | |
| | R304 | nsp | CHIP RESISTOR(3.09K OHM,1/10W,F,TP 0603,50V) | | 412-PDJ1-1291 | 1 | | |
| | R306,307 | nsp | CHIP RESISTOR(150 OHM,1/10W,0603,J,TP ,50V) | | 412-CD900-795 | 1 | | |
| | R308 | nsp | CHIP RESISTOR(33OHM,1/10W,J,TP 0603,50V) | | 412-007USB-782 | 1 | | |
| | R309,310 | nsp | CHIP RESISTOR(100 OHM,1/10W,J,TP,50V) | | 412-CDVD2001-530 | 1 | | |
| | R312 | nsp | CHIP RESISTOR(220 OHM,1/10W,0603 ,J,TP 50V) | | 412-CDVD2001-521 | 1 | | |
| | R314,315 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | | |
| | R316,317 | nsp | CHIP RESISTOR(33OHM,1/10W,J,TP 0603,50V) | | 412-007USB-782 | 1 | | |
| | R318 | nsp | CHIP RESISTOR(82 OHM,1/10W,J,TP 0603,50V) | | 412-ID-1297 | 1 | | |
| | R319-322 | nsp | CHIP RESISTOR(33OHM,1/10W,J,TP 0603,50V) | | 412-007USB-782 | 1 | | |
| | R323 | nsp | CHIP RESISTOR(150 OHM,1/10W,0603,J,TP ,50V) | | 412-CD900-795 | 1 | | |
| | R324,325 | nsp | CHIP RESISTOR(33OHM,1/10W,J,TP 0603,50V) | | 412-007USB-782 | 1 | | |
| | R326 | nsp | CHIP RESISTOR(10K OHM,1/10W,J,TP ,50V) | | 412-CDVD2001-534 | 1 | | |
| | R327 | nsp | CHIP RESISTOR(100K OHM,1/10W,0603 ,J,TP ,50V) | | 412-CDVD2001-537 | 1 | | |
| | R328 | nsp | CHIP RESISTOR(680 OHM,1/10W,J,TP ,50V) | | 412-900-1060 | 1 | | |
| | R329 | nsp | CHIP RESISTOR(180OHM,1/10W,F,TP 0603,50V) | | 412-900-1014 | 1 | | |
| | | nsp | | | | | | |
| | VR100 | 941671100450P | ROTARY VR(20KA*2,RD902F-20-16MW-A20K-0CDJ8,L=16) | | 418-MC2-685 | 1 | * | |
| | VR101 | nsp | VR FIXED PLATE | | 300-6000-1874 | 1 | | |
| | VR101 | 941671100460P | ROTARY VR(20KA*2,RD902F-20-125F-A20K-0CDJ8,L=12.5) | | 418-MC2-687 | 1 | * | |
| | VR102 | nsp | VR FIXED PLATE | | 300-6000-1874 | 1 | | |
| | VR102 | 941671100470P | ROTARY VR(20K(A),RD901F-20-125F-A20K-00DJ8,L=12.5) | | 418-MC2-686 | 1 | * | |
| | | | | | | | | |
| | | | | | | | | |
| **OTHERS PARTS GROUP** | | | | | | | | |
| | CN300A | 941644101430P | 14P 1.0 FFC SOCKET(1.0D-14PBS) | | 404-3000-3620 | 1 | | |
| | | | | | | | | |

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| ⚠ | F300 | 941652500240P | CHIP FUSE(1A,63V,1206 TYPE,LEAD FREE) | | 422-3BPM-070 | 1 | * |
| | | | | | | | |
| | JK100 | 941643102290P | 2P RCA JACK(RJ-1078B-10-0320A) | | 420-HDJ7000-045 | 1 | * |
| | JK101 | 941643101360P | MIC JACK (6.4,JY-6313-02-340) | | 420-SMX211-137 | 1 | |
| | JK100 | 941643102290P | 2P RCA JACK(RJ-1078B-10-0320A) | | 420-HDJ7000-045 | 1 | * |
| | JK300 | nsp | GROUND PLATE | | 300-2000-1832 | 1 | * |
| | JK300 | 941643004210P | USB JACK(USB-B(F),90°,DIP) | | 420-007USB-150 | 1 | |
| | | | | | | | |
| | L002,003 | nsp | INDUCTOR(3.3UH/2ACDS21010-3R3M) | | 415-MC2-401 | 1 | |
| | L004 | nsp | BEAD CORE(A70512003, T-26mm) | | 415-HV3500K-090 | 1 | |
| | L006,007 | nsp | BEAD CORE(A70512003, T-26mm) | | 415-HV3500K-090 | 1 | |
| | L008,009 | nsp | BEAD(RH03506BT-B-N,TAPING RT) | | 415-DCM370E3-134 | 1 | |
| | L300 | nsp | POWER CHOKE(22uH,1.11A) | | 415-MC6000-356 | 1 | |
| | L301 | nsp | COMMON MODE CHOKE(WCM-2012-900T,90Ω/100MHz) | | 415-JKME3-370 | 1 | |
| | L302 | nsp | POWER CHOKE(22uH,1.11A) | | 415-MC6000-356 | 1 | |
| | L303,304 | nsp | CHIP BEAD(FBMA-11-201209-121T,120Ω/100MHz) | | 415-IS201-382 | 1 | |
| | | | | | | | |
| | W100 | nsp | 4P 2.5 CONNECTOR WIRE(L=140mm,UL1533#28*1CTS) | | 404-MC2-3681 | 1 | |
| | | | | | | | |
| | X300 | 941141004940P | OSC (XTAL 6MHz,20PF) | | 427-DJ2500-049 | 1 | |

## CROS FADER P.C.B ASS'Y

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| **OTHERS PARTS GROUP** | | | | | | | |
| | CN103 | nsp | 3P SOCKET(CKM2001WV-3P,180°WHTIE) | | 404-HP1010K-259A | 1 | |
| | | | | | | | |
| | VR101 | 941674005060P | SLIDE VR(RA45D2F-211-17D1-0B20K-0025) | | 418-MC6000-644 | 1 | |

## PHONE P.C.B ASS'Y

| | Ref. No. | Part No. | Part Name | Remarks | HANPIN | Q'ty | New |
|---|---|---|---|---|---|---|---|
| **CAPACITORS GROUP** | | | | | | | |
| | C177,C178 | nsp | CHIP CAPACITOR(2200pF/50V,J,0603 TAP,X7R) | | 413-007USB-788 | 1 | |
| | | | | | | | |
| | | | | | | | |
| **OTHERS PARTS GROUP** | | | | | | | |
| | CN100 | nsp | 4P 2.5SOCKET(S4B-XH-A,90°,JST) | | 404-QMX2-606 | 1 | |
| | | | | | | | |
| | JK103 | 941643101370P | 3P PHONE JACK(6.4,JY-6313-02-030) | | 420-HMJ1001-5034 | 1 | |

Personal notes: