

## SERVICE MANUAL

| MODEL         | JP | E3 | E2 | EK | EA | E1 | E1C | E1K |
|---------------|----|----|----|----|----|----|-----|-----|
| <b>RCD-N9</b> | ✓  |    | ✓  |    |    |    | ✓   |     |

### NETWORK CD RECIEVER

• 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.

# DENON

D&M Holdings Inc.

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# ABOUT THIS MANUAL

Read the following information before using the service manual.

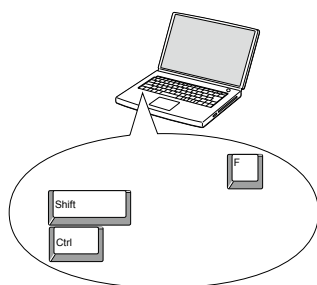
## What you can do with this manual

### Search for a Ref. No. (phrase) (Ctrl+Shift+F)

You can use the search function in Acrobat Reader to search for a Ref. No. in schematic diagrams, printed wiring circuit diagrams, block diagrams, and parts lists.

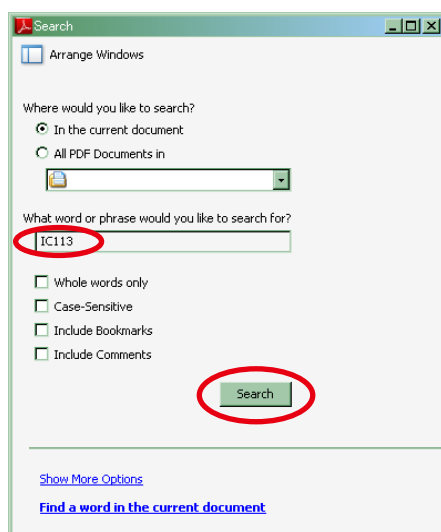
1. Press **Ctrl+Shift+F** on the keyboard.

- The Search window appears.



2. Enter the Ref. No. you want to search for in the Search window, and then click the **Search** button.

- A list of search results appears.



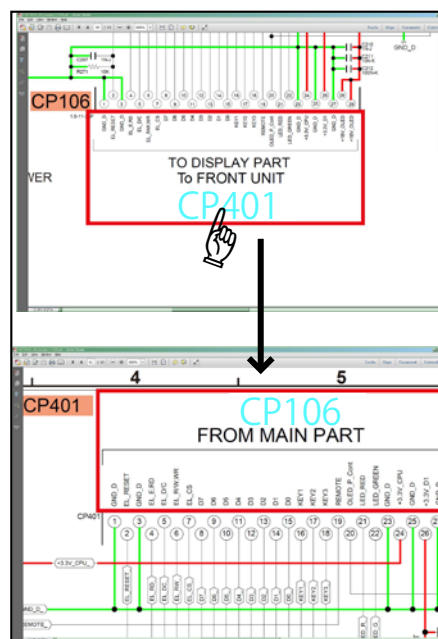
3. Click an item on the list.

- The screen jumps to the page for that item, and the search phrase is displayed.

### Jump to the target of a schematic diagram connector

Click the Ref. No. of the target connector in the red box around a schematic diagram connector.

- The screen jumps to the target connector.



- Page magnification stays the same as before the jump.

## Using Adobe Reader (Windows version)

### Add notes to this data (Sign)

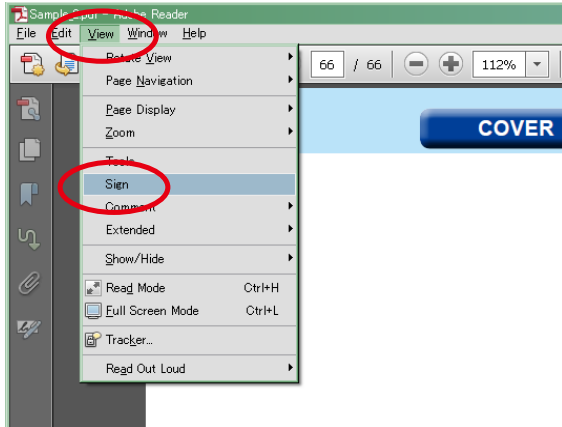
The Sign function lets you add notes to the data in this manual.

Save the file once you have finished adding notes.

#### [Example using Adobe Reader X]

On the "**View**" menu, click "**Sign**".

- The Sign pane appears.



#### [Example using Adobe Reader 9]

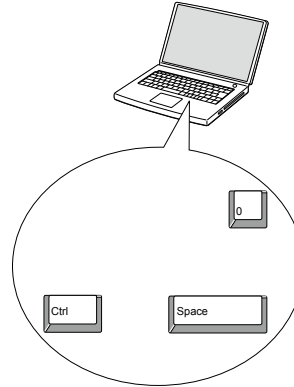
On the "**Document**" menu, click "**Sign**".

### Magnify schematic / printed circuit board diagrams - 1

#### (Ctrl+Space, mouse operation)

Press **Ctrl+Space** on the keyboard and drag the mouse to select the area you want to view.

- The selected area is magnified.

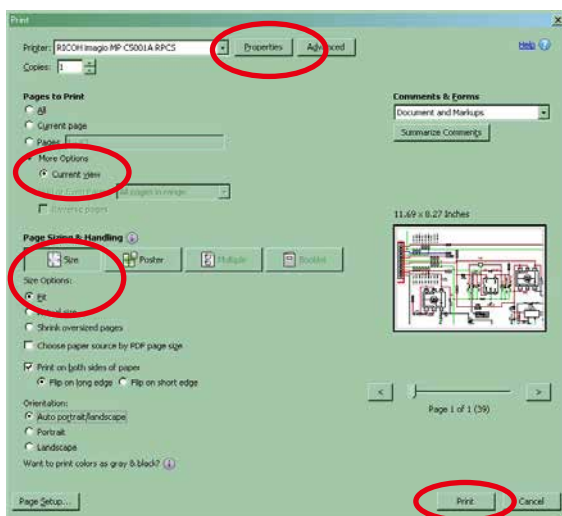


- When you want to move the area shown, hold down **Space** and drag the mouse.
- When you want to show a full page view, press **Ctrl+0** on the keyboard.

### Print a magnified part of the manual

The Properties dialog box and functions will vary depending on your printer.

1. Drag the mouse to magnify the part you want to print.
2. On the "**File**" menu, click "**Print**".
3. Configure the following settings in the Print dialog box.



4. Click the **Print** button to start printing.

#### • Properties

Click this button and check that the printer is set to a suitable paper size.

#### • Page to print

Select the following checkbox.

"More Options" : "Current View"

#### • Page Sizing & Handling

Select the following checkbox.

"Size" / "Size Options" : "Fit"



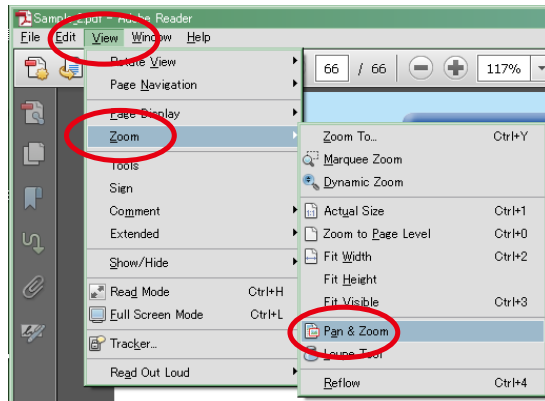
## Magnify schematic / printed circuit board diagrams - 2

### (Pan & Zoom function)

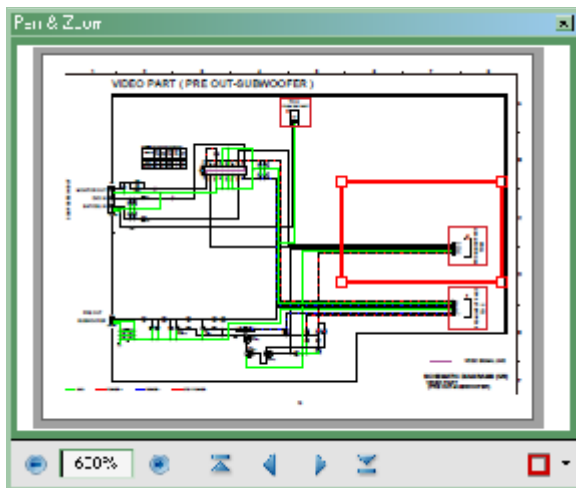
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

#### [Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Pan & Zoom".



- The Pan & Zoom window appears on the screen.



#### [Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Pan & Zoom Window".

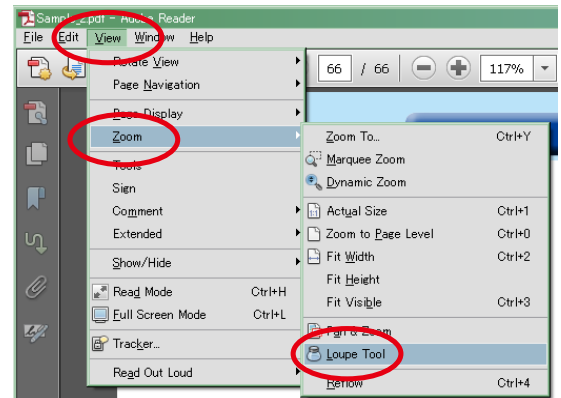
## Magnify schematic / printed circuit board diagrams - 3

### (Loupe Tool function)

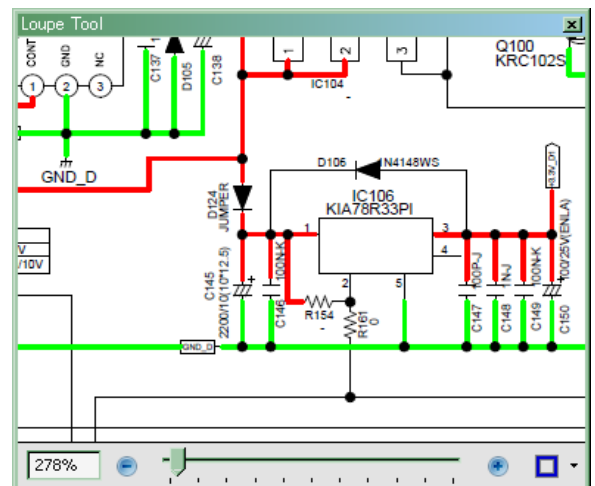
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

#### [Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Loupe Tool".



- The Loupe Tool window appears on the screen.



#### [Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Loupe Tool Window".

## 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 reasons, 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  $\triangle$  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 "l" (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.

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

## INSTRUCTIONS FOR HANDLING SEMI-CONDUCTORS AND OPTICAL UNIT

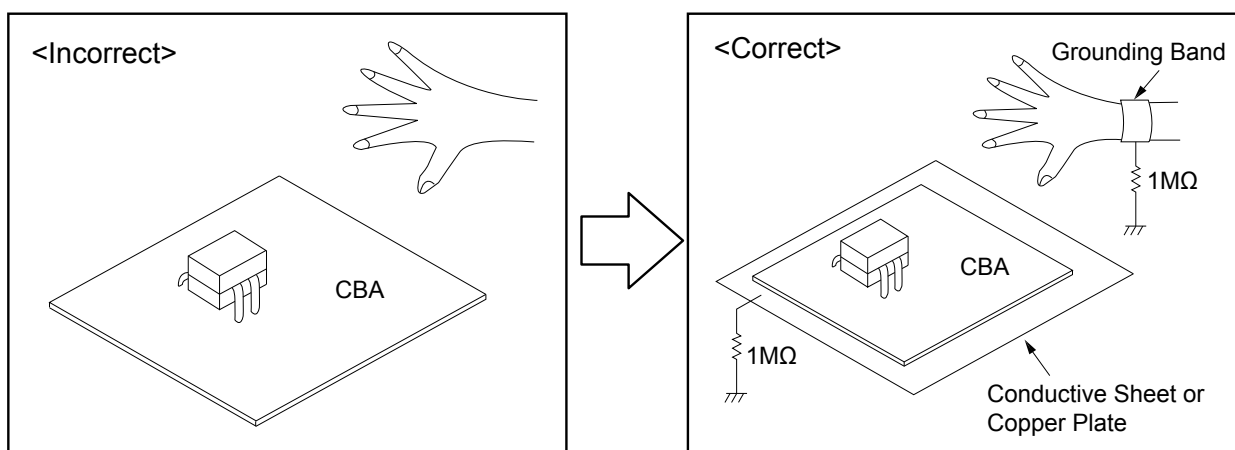
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

### 1. Ground for Human Body

Be sure to wear a grounding band (1 M $\Omega$ ) that is properly grounded to remove any static electricity that may be charged on the body.

### 2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 M $\Omega$ ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing



**(GB) WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.  
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.  
Keep components and tools also at this potential.



**(NL) WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

**(F) ATTENTION**

Tous les IC et beaucoup d'autres semiconducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.  
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.  
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

**(D) WARNUNG**

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).  
Unvorsichtige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern. Sorgen Sie dafür, dass Sie im Reparaturfall dem Massepotential des Gerätes verbunden sind.  
Halten Sie Bauteile und Hilfsmittel ebenfalls über ein Pulsarmband mit Widerstand mit auf diesem Potential.

**(I) AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).  
La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione.  
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.  
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

**(GB)**

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

**(D)**

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerats darf nicht verändert werden. Für Reparaturen sind Original-Ersatzteile zu verwenden.

**(NL)**

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

**(I)**

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne."

**(F)**

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

## LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.



**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**AVOID DIRECT EXPOSURE TO BEAM**

### WARNING

**The use of optical instruments with this product will increase eye hazard.  
Repair handling should take place as much as possible with a disc loaded inside the player**

**WARNING LOCATION: INSIDE ON LASER COVERSIELD**

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM  
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING  
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN  
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD BETRAKTA EJ STRÅLEN  
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN  
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN  
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM  
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

100301DM

# TECHNICAL SPECIFICATIONS

## Audio section

### CD player section

Playable frequency response : 10Hz – 20kHz

Wow & flutter : Below measurable limits ( $\pm 0.001\%$ )

Sampling frequency : 44.1kHz

### Audio section

Rated output : 2-channel  
65W+65W (4  $\Omega$ , 1kHz, THD+N 0.7%)

Dynamic power : 80W+80W (4 $\Omega$ , 1kHz, THD+N 10%)

Output terminals : Speaker : 4-16  $\Omega$  (impedance)  
Compatible with headphones/stereo headphones

Input sensitivity/impedance : Analog In : 200mV/22k $\Omega$

Total harmonic distortion (1kHz, 5W, 4 $\Omega$ ) : Analog In : 0.1%

S/N Ratio (10W, 4  $\Omega$ , IHF-A) : Analog In : 90dB

Tone control : SDB : +8dB (100Hz)  
Bass :  $\pm 10$ dB (100Hz)  
Treble :  $\pm 10$ dB (10Hz)

Frequency response : Analog In : 10Hz – 40kHz ( $\pm 3$ dB)

## Tuner section

Receiving Range : for E2, E1C: FM 87.50MHz – 108.00MHz  
for JP: FM 76.00MHz – 90.00MHz  
for E2, E1C: AM 522kHz – 1611kHz  
for JP: AM 522kHz – 1629kHz

Effective sensitivity : FM 1.2  $\mu$ V/75 $\Omega$   
AM 20  $\mu$ V

FM Channel separation : 42dB (1kHz)

FM S/N ratio : Monaural: 70dB  
Stereo: 70dB

FM THD+N (1kHz) : Monaural: 0.4%  
Stereo: 0.4%

## Wireless LAN section

Network type (wireless LAN standard) : Conforming to IEEE 802.11b  
Conforming to IEEE 802.11g  
Conforming to IEEE 802.11n (Wi-Fi\* compliant)\*1

Security : WEP 64bit, WEP 128bit  
WPA/WPA2-PSK(AES)  
WPA/WPA2-PSK(TKIP)

Radio frequency : 2.4GHz

No. of channels : 1 – 13 ch

\*1 The Wi-Fi\* CERTIFIED Logo and the Wi-Fi CERTIFIED On-Product Logo are registered trademarks of the Wi-Fi Alliance.

## Bluetooth section

Communications system : Bluetooth Version 2.1 + EDR (Enhanced Data Rate)

Transmission power : Maximum 2.5 mW (Class 2)

Maximum communication r : Approx. 32.8ft/10m in line of sight

Frequency band : 2.4 GHz band

Modulation scheme : FHSS (Frequency-Hopping Spread Spectrum)

Supported profiles : A2DP 1.2 (Advanced Audio Distribution Profile)  
AVRCP 1.4 (Audio Video Remote Control Profile)

Corresponding codec : SBC, AAC

Transmission range (A2DP) : 20 Hz - 20,000 Hz

## Clock/Alarm/Sleep

Clock type : Power line frequency synchronized method (Within  $\pm 60$  seconds per month)

Alarm : Once alarm/Everyday alarm : One system each

Sleep : Sleep timer : Max. 90 minutes

## General

Power supply : (for E2) : AC 230 V, 50 Hz / 60Hz  
(for E1C) : AC 220V, 50Hz  
(for JP) : AC 100V, 50/60Hz

Power consumption : 55W

Power consumption in standby mode : 0.3W

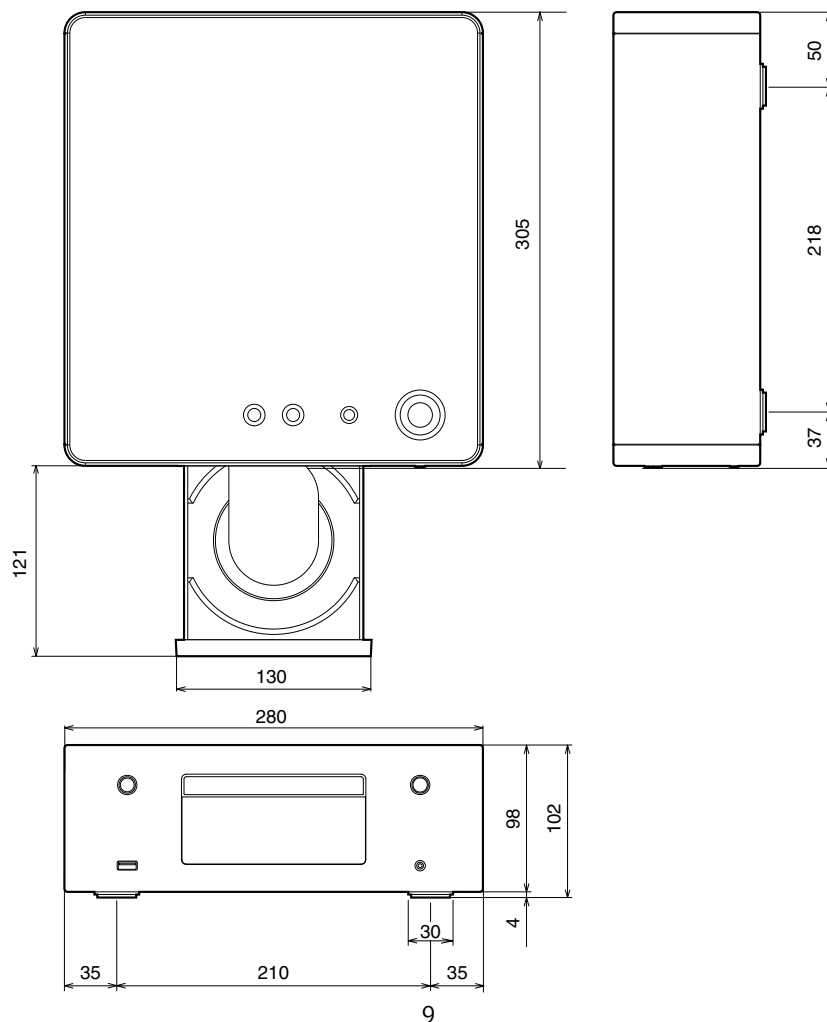
Power consumption in "Network Control"- "On" mode : 3W

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

# DIMENSION

Unit : mm

Weight : 3.2 kg



PRECAUTIONS DURING SERVICE

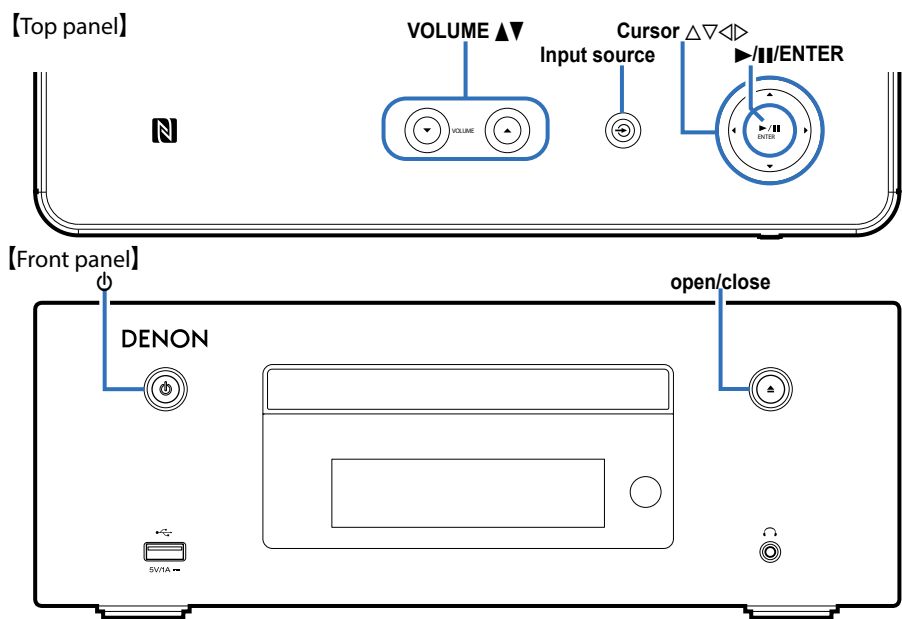
Initializing This Unit

Initialize this unit if you have replaced the microcomputer, one of the parts around the microcomputer, or the digital PCB.

- 1. In "STANDBY" status, press and hold the "CURSOR Δ" and "INPUT SOURCE" buttons along with the power operation button to turn on the power. (Factory Initialization Mode)
- 2. Press the power button "⏻" to turn off the power.
- 3. In "STANDBY" status, press and hold the "VOLUME ▲" and "VOLUME ▼" buttons along with the power operation button to turn on the power. (User Initialization Mode)
- 4. Wait for more than 90 seconds after "Initialized" is displayed and then turn the power off. ⚠  
(During this time, start and initialize the network devices.)

NOTE :

Initializing the device restores settings configured by the user to the factory settings. Take note of your settings beforehand and reconfigure them after initialization.



JIG FOR SERVICING

Measuring Disc :  
CD/TCD-784  
CD-R/TCD-R082W  
CD-RW/TCD-W082W

\* See "MEASURING METHOD AND WAVEFORMS".

Procedure after Replacing the WLAN MODULE

When replaced of the WLAN MODULE(CY920-C), confirm contents of the following.

**Caution** WLAN MODULE and NFC MODULE are supplied in a set so that the BT ADDRESS matches.  
If one module is faulty, replace the entire set.

- (1) When replacing the WLAN MODULE, use the "Part No." corresponding to your region in the table below.

| MODULE Name       | Remarks | Part No.      |
|-------------------|---------|---------------|
| CY920 MODULE ASSY | E2 / JP | 943189101050D |

- (2) Update the firmware using a USB flash drive.

[\(See 33 page\)](#)

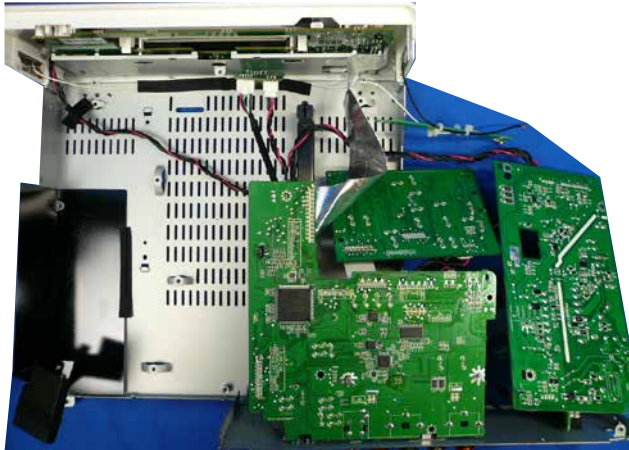
- (3) When replacing the modules, replace the MAC address label on the bottom of the unit with the new one.

## Measurement of Board Test Points

You can measure board test points easily by turning over the main board while leaving it screwed to the back panel as shown in the figure below.

### Disassembly Procedure (See "DISASSEMBLY" for details on the disassembly procedure)

1. Remove all of the screws from the MAIN PCB, SMPS PCB, CD Mecha, CD Foot, NET PCB, USB PCB and chassis (CD Mecha and CD Foot are for the RCD-N9 only).
2. Remove the SMPS PCB, CD Mecha and CD Foot (CD Mecha and CD Foot are for the RCD-N9 only).
3. Remove the molded parts from the back panel.
4. Raise the MAIN PCB, slide the entire back panel to the rear, and remove everything from the back panel to PCB as a set.



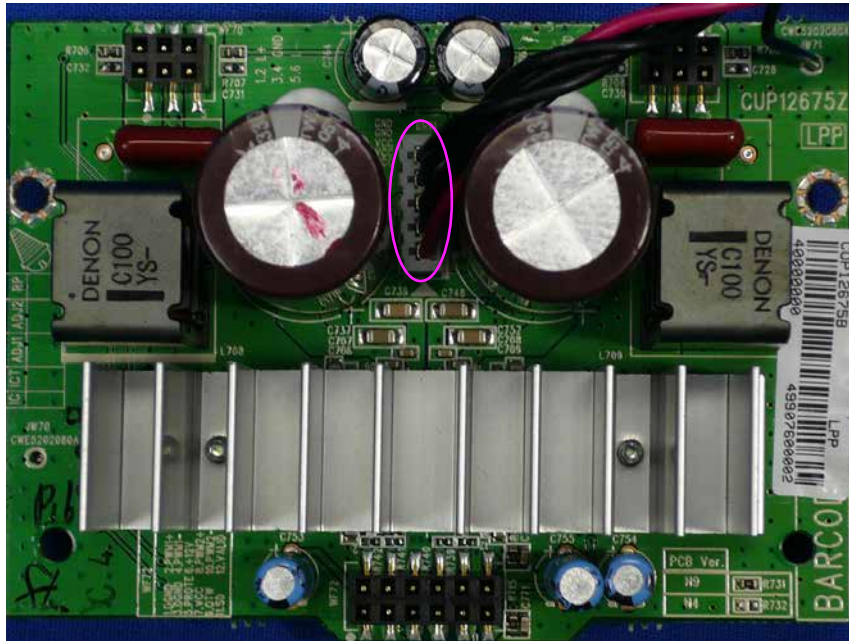


## Removing the AMP PCB from the MAIN PCB

Be careful of the following two points when removing and reattaching the AMP PCB to the MAIN PCB.

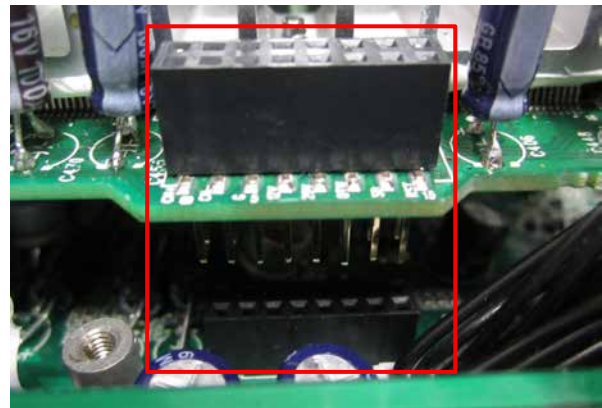
1. Wait for approximately 5 minutes after turning the power off before removing the wire connector that connects the SMPS PCB and AMP PCB.

When connected to the SMPS PCB wire connector, a surge current may occur due to the charge stored in the AMP PCB causing damage to the D-AMP IC70.



2. When attaching the AMP PCB to the MAIN PCB connector, insert the connector pins into the AMP PCB beforehand, and securely connect while checking that the position is correct.

If the MAIN PCB and AMP PCB terminals are connected incorrectly (if the connection pins are misaligned), the PWM Processor IC23, D-AMP IC70 may be damaged by the charge stored in the condenser.





## NOTE HANDLING AND REPLACEMENT OF THE LASER PICK-UP

### 1. Protection of the LD

Short a part of the LD circuit by soldering. After connection to a circuit, remove the short solder.

### 2. Precautions when handling the laser CD mechanism

- Handle the laser pick-up so that it is not exposed to dust.
- Do not leave the laser pick-up bare. Be sure to cover it.
- If dust adheres on lens of the pick-up, blow it off with a blower brush.
- Do not shock the laser pick-up.
- Do not watch the light of the laser pick-up.

### 3. Cautions on assembling and adjustment

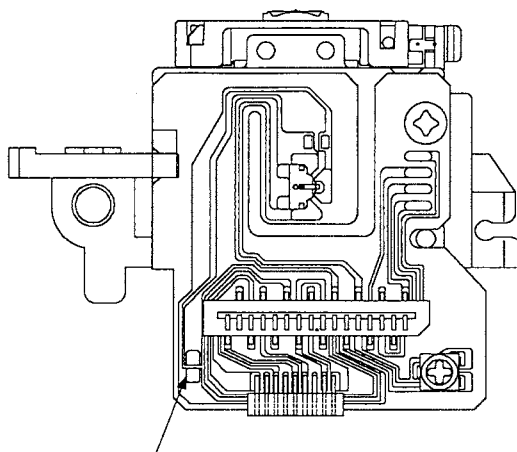
- Be sure that to the bench, jig, head of soldering iron (with ceramic) and measuring instruments are well grounded.
- Workers who handle the laser pick-up must be grounded.
- The finished mechanism (prior to anchoring in the set) should be protected against static electricity and dust.

The mechanism must be stored that damaging outside forces are not received.

- When carrying the finished mechanism, hold it by the chassis body.
- Avoid using and storing in areas where there is corrosive gas (e.g. H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, Cl<sub>2</sub>) or other harmful gas in the air, or areas with substances that emit harmful gases (particularly organic silicon, cyanide, formalin or phenol substances). Take particular care to ensure that there are none of the above substances in the set. Otherwise, the motor may stop running.

### 4. Determining whether the laser pick-up is defective

- Check the Iop(Laser drive current). Check Iop in "SPECIAL Mode". (See [28 page](#))
- If the present Iop (current) value becomes more than 50mA, replace the Traverse unit with a new one.
- No mechanical adjustment is necessary after the replacement.

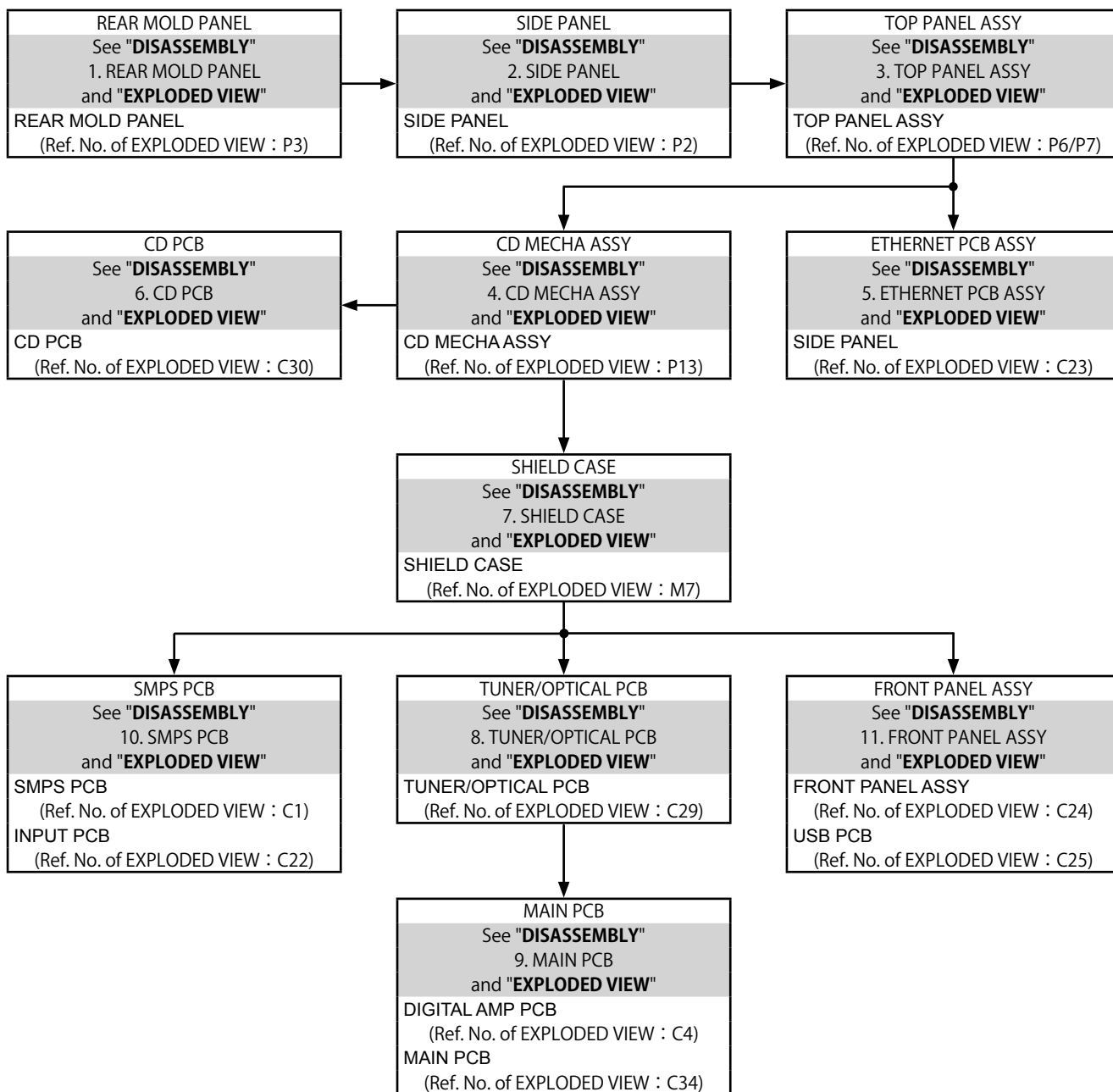


Protective soldering place for laser diode.

(Connect the connectors and remove them before powering the APC circuit.)

## DISASSEMBLY

- Remove each part in the order of the arrows below.
- Reassemble removed parts in the reverse order.
- Read "**Precautions During Work**" before reassembling removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure to shape the wires correctly may cause problems such as noise.

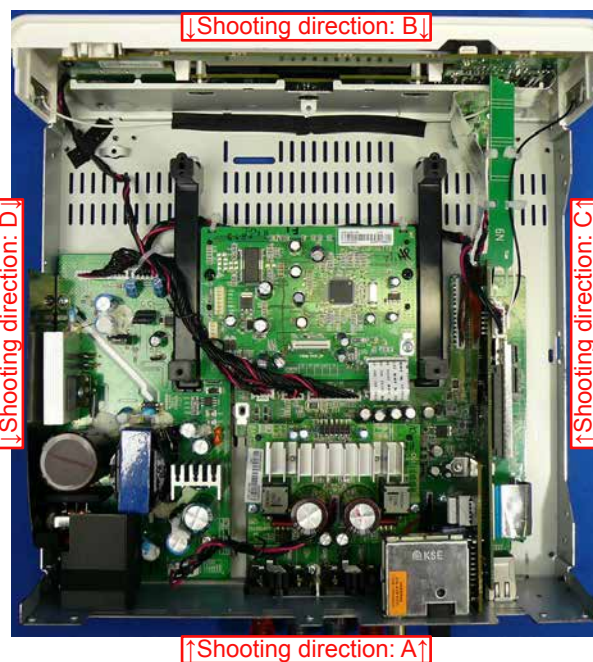
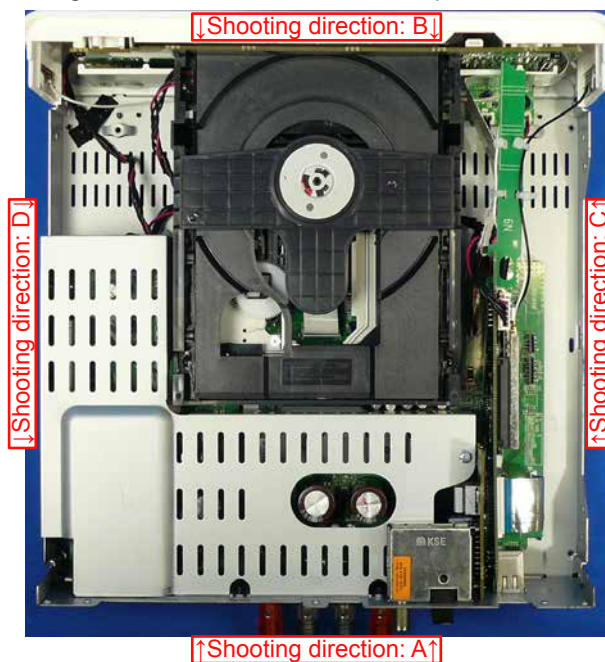


## Explanatory Photos for DISASSEMBLY

- The angles from which the photos are taken are shown by "Photo angle : A, B, C, D".
- See the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the unit.
- The photograph is RCD-N9WT model.

### The viewpoint of each photograph

(Shooting direction : X) [View from the top]



## 1. REAR MOLD PANEL

Proceeding : **REAR MOLD PANEL**

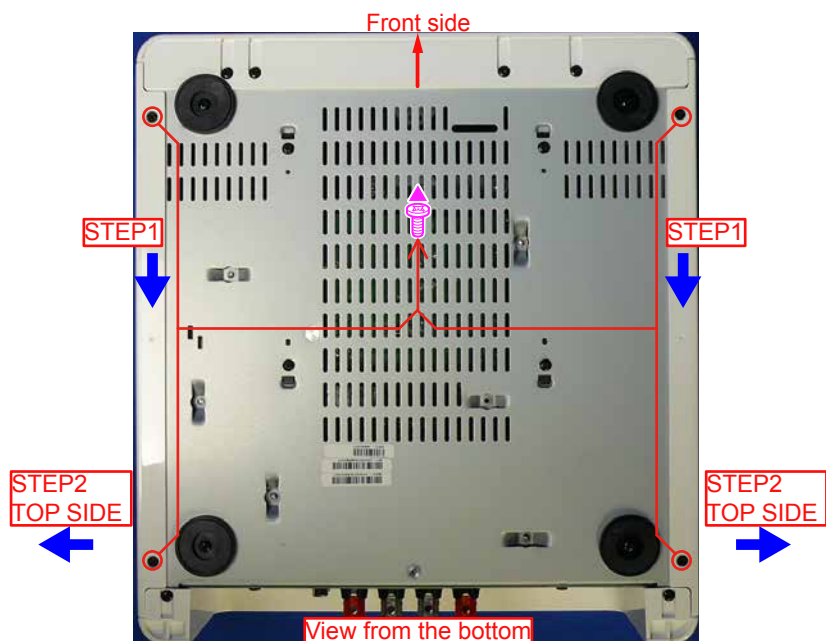
- (1) Remove the screws.



## 2. SIDE PANEL

Proceeding : REAR MOLD PANEL → SIDE PANEL

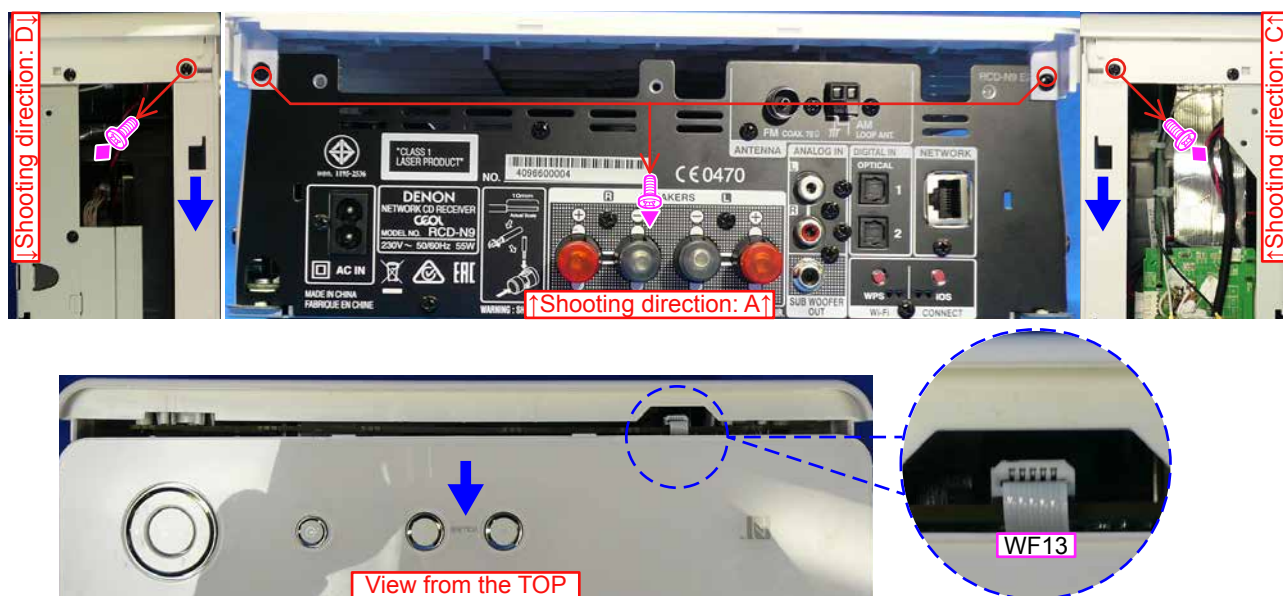
(1) Remove the screws.



## 3. TOP PANEL ASSY

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY

(1) Remove the screws. Remove the FFC.

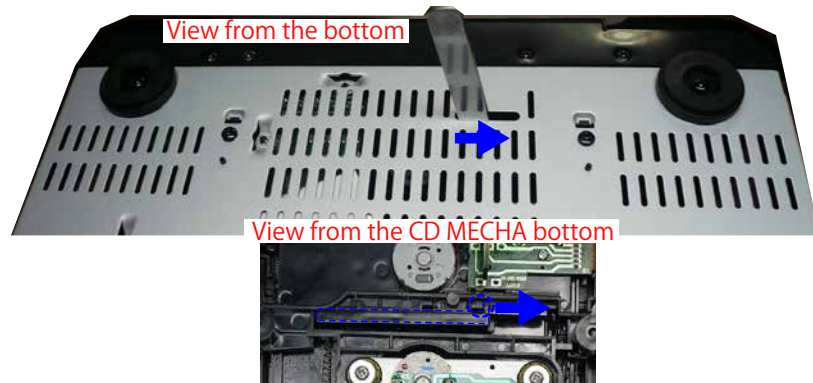




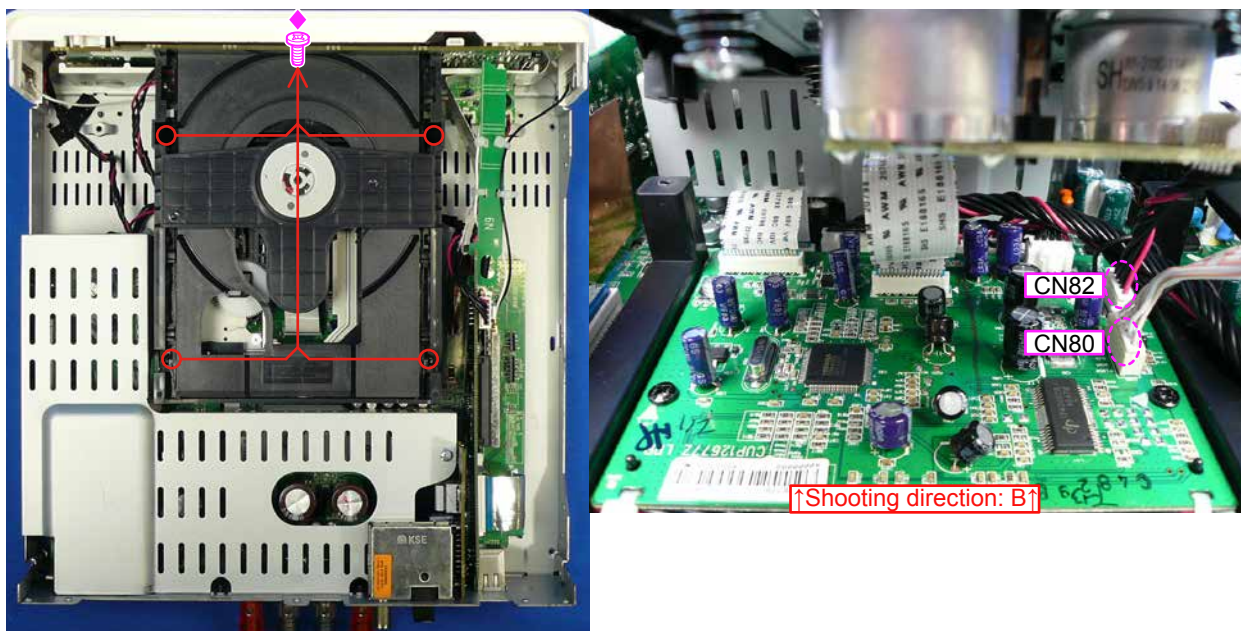
## 4. CD MECHA ASSY

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY

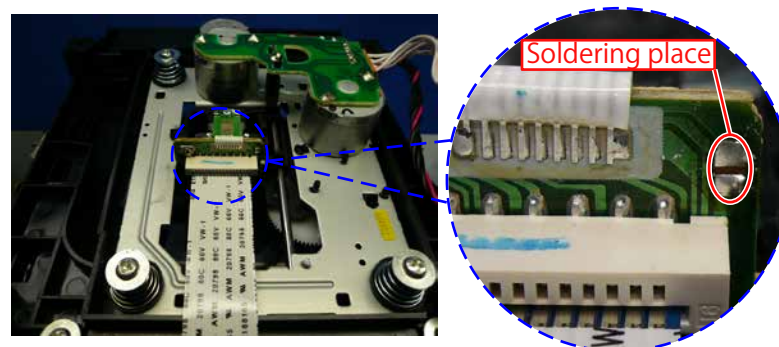
- (1) Tray is opened and CD DOOR is removed.



- (2) Remove the screws. Remove the connector.



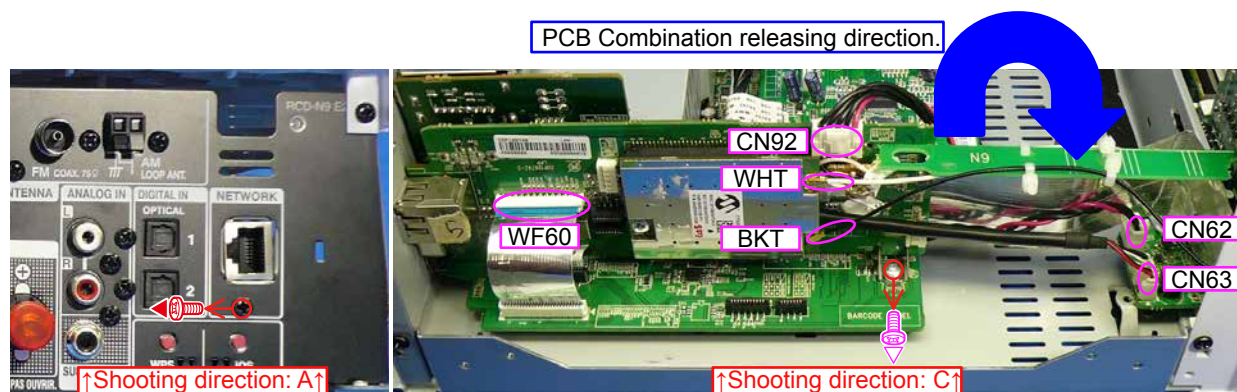
- (3) Laser short-circuit in Pick-up of CD MECHANISM ASS'Y, then disconnect the connector wires and FFC cable. Be sure to wear a grounding band.



## 5. ETHERNET PCB ASSY

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → ETHERNET PCB ASSY

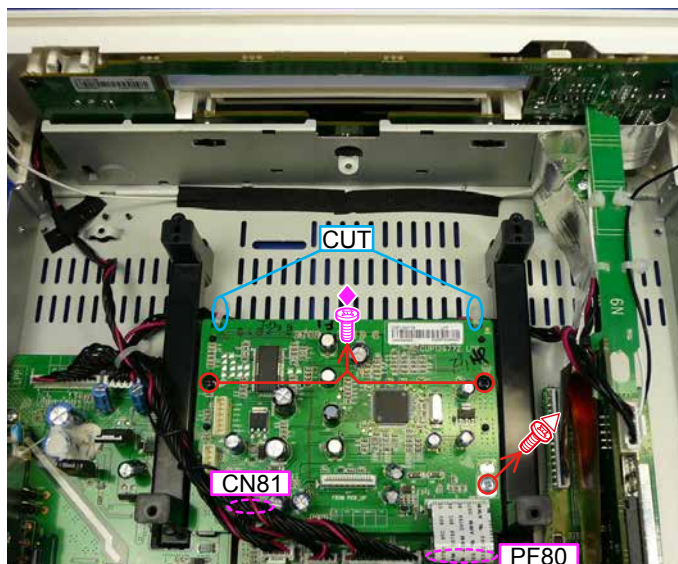
(1) Remove the screws. Remove the connector wire and FFC.



## 6. CD PCB

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → CD PCB

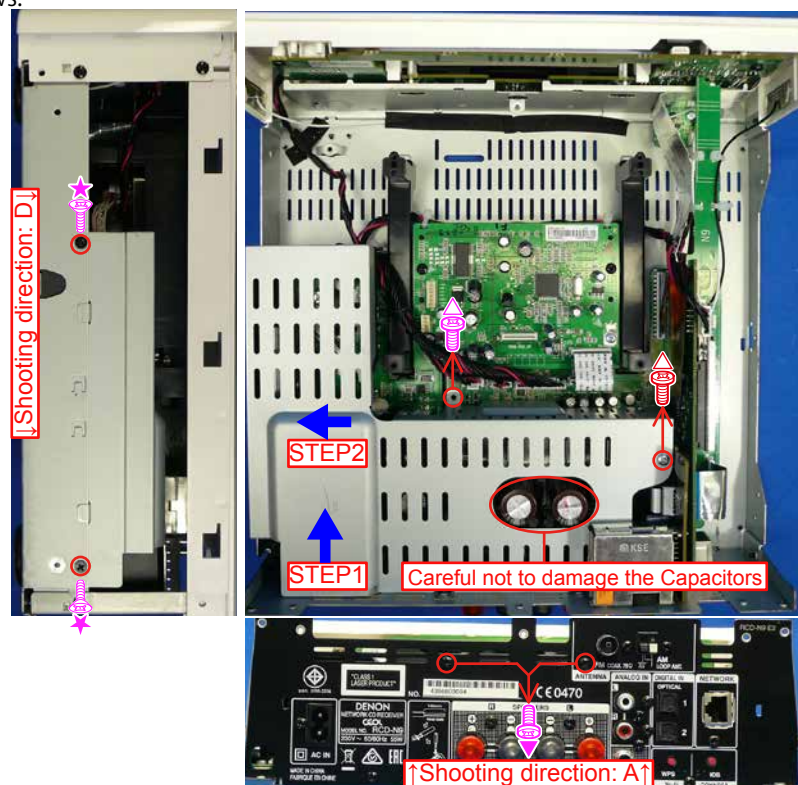
(1) Cut the wire clamp, then remove the connector wires and FFC.



## 7. SHIELD CASE

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → SHIELD CASE

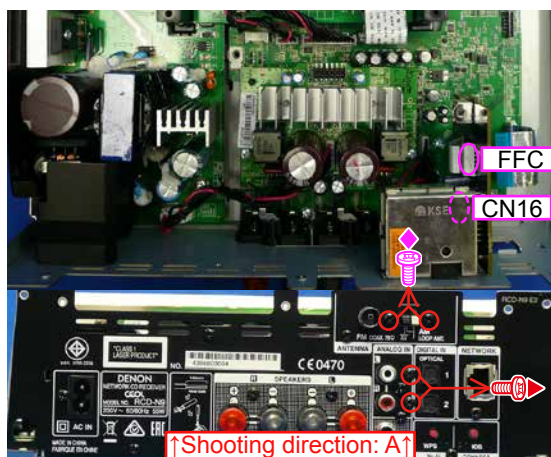
(1) Remove the screws.



## 8. TUNER/OPTICAL PCB

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → SHIELD CASE  
→ TUNER/OPTICAL PCB

(1) Remove the screws. Remove the connector wire and FFC.





## 9. MAIN PCB

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → SHIELD CASE  
→ MAIN PCB

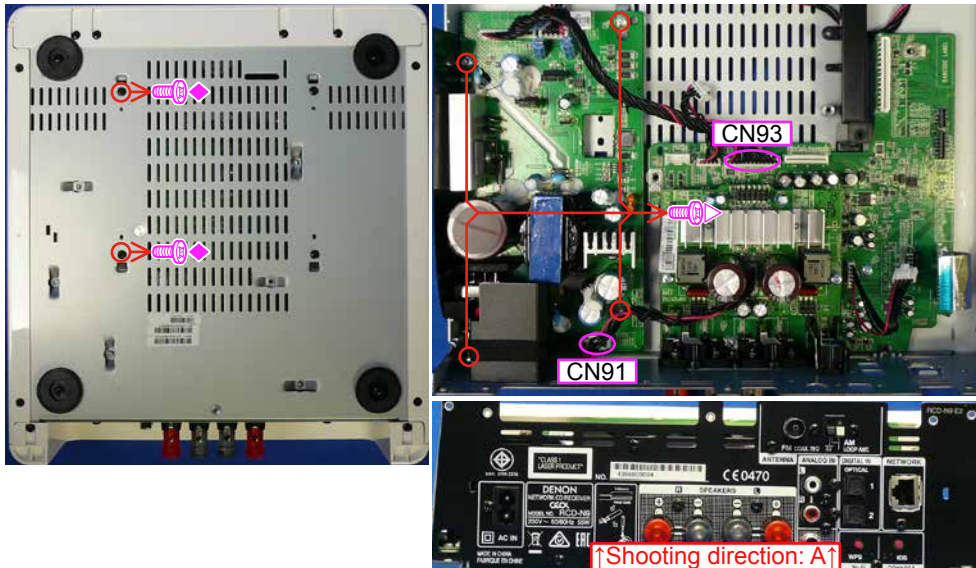
(1) Remove the connector wire. Remove the screws.



## 10. SMPS PCB

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → SHIELD CASE  
→ SMPS PCB

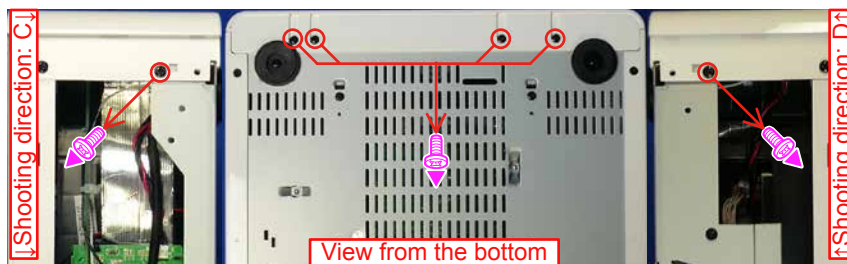
(1) Remove the screws. Remove the SUPPORT, MECA - L. Remove the connector wire.



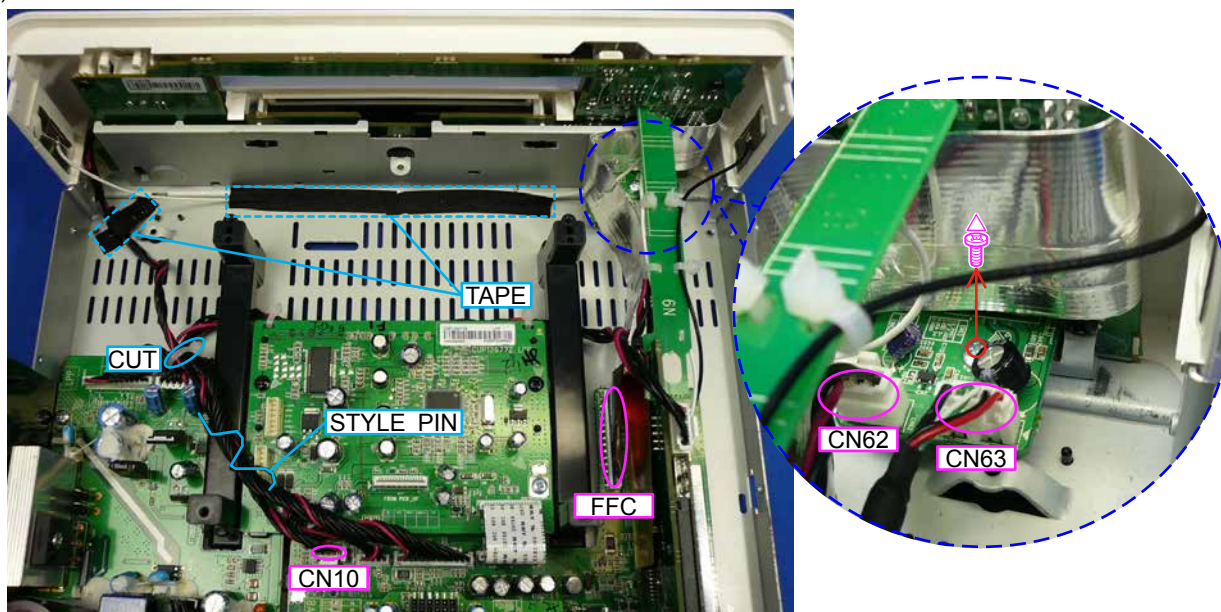
## 11. FRONT PANEL ASSY

Proceeding : REAR MOLD PANEL → SIDE PANEL → TOP PANEL ASSY → CD MECHA ASSY → SHIELD CASE  
→ FRONT PANEL ASSY

(1) Remove the screws.



(2) Remove the connector wire and FFC. Remove the screws.



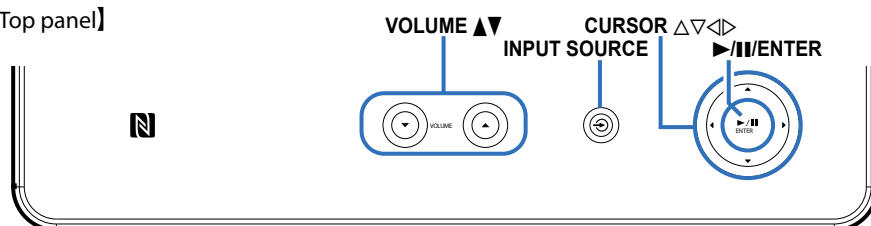
# SPECIAL MODE

## Special Mode Configuration Buttons

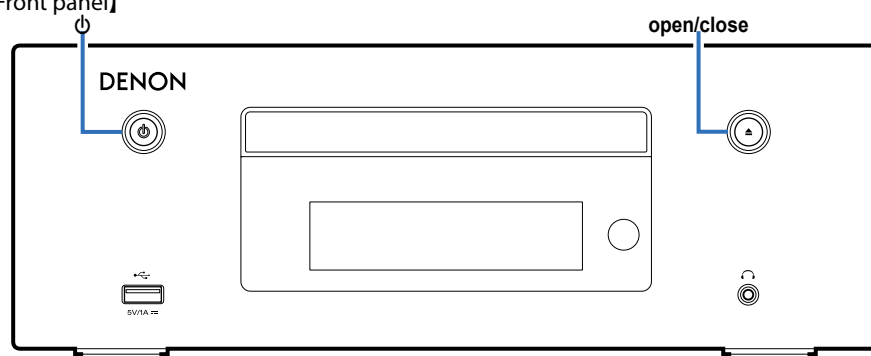
- ※ No. 1 : In "STANDBY" status, press and hold the "A" and "B" buttons along with the power operation button for at least three seconds.
- ※ No. 2 - 6 : In "STANDBY" status, press and hold the "A" and "B" buttons along with the power operation button to turn on the power.
- ※ No. 7, 8 : While holding down the "A" and "B" buttons, insert the AC plug, turn on the power and wait at least three seconds. If the "ON/STANDBY" button is lit, the unit enters this mode.

| No. | Mode                             | Button A | Button B     | Contents                                                                                                                                                                                                                                                     |
|-----|----------------------------------|----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Version Display Mode             | CURSOR Δ | -            | The firmware version is indicated in the display.<br>(See <a href="#">24 page</a> )                                                                                                                                                                          |
| 2   | Factory Initialization Mode      | CURSOR Δ | INPUT SOURCE | Restores settings to the default settings. (See <a href="#">23 page</a> )<br>※Can't erase the Recently Played list.<br>※ <b>Be sure to do the "User Initialization" after the "Factory Initialization".</b>                                                  |
| 3   | User Initialization Mode         | VOLUME ▲ | VOLUME ▼     | Differences with factory initialization are as below.<br>•Does not clear the version information such as rewriting failed log.<br>•Does not clear the history of protection.<br>•Network devices are started and initialized. (See <a href="#">24 page</a> ) |
| 4   | CD Test mode                     | CURSOR ◁ | VOLUME ▲     | Servo adjustment, Leaser current, ON time<br>(See <a href="#">26 page</a> )                                                                                                                                                                                  |
| 5   | Protection History Display Mode  | CURSOR ◁ | INPUT SOURCE | Displays the protection occurrence history.<br>(See <a href="#">29 page</a> )                                                                                                                                                                                |
| 6   | USB UPDATE                       | CURSOR ▷ | INPUT SOURCE | Switches this unit to USB Update mode.<br>(See <a href="#">33 page</a> )                                                                                                                                                                                     |
| 7   | Forced USB All Device Write Mode | CURSOR Δ | ▶/II/ENTER   | Mode used when this unit cannot be recovered.<br>Forcibly switches this unit to USB update mode. (See <a href="#">35 page</a> )                                                                                                                              |
| 8   | Heat Run mode                    | CURSOR Δ | -            | Heat Run mode<br>(See <a href="#">31 page</a> )                                                                                                                                                                                                              |

【Top panel】



【Front panel】



## 1. Factory Initialization Mode

Various settings are initialized. See "Initialization Items (Default setting)" for information on the settings that are initialized.

After initialization, move on to normal mode.

### Caution

Version information (such as rewriting failed log) Clear.

Clear the history of protection.

"Initial value of laser current" and "The accumulated laser on time" not cleared.

Power failure flag is not cleared.

Can't erase the Recently Played list.

### 1.1.Operation

In "**STANDBY**" status, press and hold the "**CURSOR  $\Delta$** " and "**INPUT SOURCE**" buttons along with the power operation button to turn on the power.

#### Startup display

Full lighting of the display(2 seconds)



All off(2 seconds)



Lighting of all LEDs on the unit(4 second)



"**Factory Reset**" displayed for 5 seconds.



#### Initialization Items (Default setting)

|                         | Default               |
|-------------------------|-----------------------|
| SOURCE                  | Internet Radio        |
| TUNER(band)             | FM                    |
| SDB                     | OFF                   |
| Digital In              | 1                     |
| BASS                    | 0 dB                  |
| TREBLE                  | 0 dB                  |
| BALANCE                 | CENTER                |
| DIMMER                  | 100%                  |
| Sleep                   | Off                   |
| Repeat/Random/Program   | Off                   |
| VOLUME                  | 5                     |
| Favorite list           | Clear all             |
| iPod mode               | Direct operation mode |
| Bluetooth device list   | Clear all             |
| Setup Menu/Network      | All settings          |
| Protection history      | NO PROTECT            |
| Version upgrade history | Clear all             |

## 2. User Initialization Mode

Various settings are initialized. See "Initialization Items (Default setting)" for information on the settings that are initialized.

After initialization, move on to normal mode.

### Caution

The following 3 points are different from the Factory Reset.

- Does not clear the version information such as rewriting failed log.
- Does not clear the history of protection.
- Network devices are started and initialized. ⚠

### 2.1.Operation

- ⚠ 2. Hold down buttons "**VOLUME ▲**" and "**VOLUME ▼**" at the same time and press the power button to turn on the power.

#### Startup display

Flashing of the standby indicator LED(White).



"**Initialized**" displayed for 5 seconds



Wait for more than 90 seconds after "**Initialized**" is displayed and then turn the power off. ⚠  
(During this time, start and initialize the network devices.)

## 3. Version Display Mode

Menu items appear in the Add Version. Otherwise, normal operation.

### 3.1. Starting up

In "**STANDBY**" status, press and hold the "**CURSOR ▲**" button along with the power operation button to turn on the power.

#### Startup display

"Version" displayed for 5 seconds.



### 3.2. Display Order

Error information → ① System u-com Version → ② System u-com(boot loader) Version  
→ ③ Network u-com(boot loader) Version → ④ Network u-com(IMG) Version  
→ ⑤ Bluetooth Mac Address



Select the "**Version**" in the "**Setup**".



↓ "ENTER"

① System u-com Version :



The version of the System u-com.

↓ "Cursor ▽"

② System u-com (Boot Loader) Version :



The version of the boot loader System u-com.

↓ "Cursor ▽"

③ Network u-com(Boot Loader) Version :



The version of the boot loader Network u-com.

↓ "Cursor ▽"

④ Network u-com (IMG) Version :



The version of the image Network u-com.



Network Module CY920 not start upon completion

↓ "Cursor ▽"

⑤ Bluetooth Mac Address :



Display the Bluetooth Mac Address.

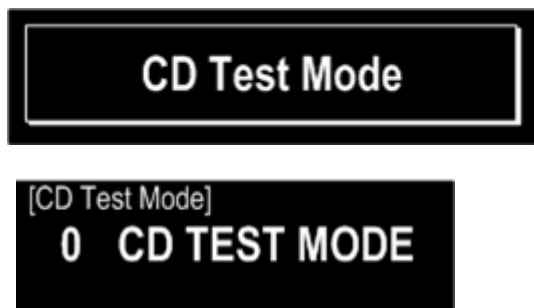
## 4. CD Test mode

### 4.1.Operation

In "STANDBY" status, press and hold the "CURSOR ◀" and "VOLUME ▲" buttons along with the power operation button to turn on the power.

#### Startup display

"CD Test Mode" displayed for 5 seconds.



CD TEST MODE display(Disk loading)

To exit this mode, unplug the power cord.

### 4.2. Before starting the test

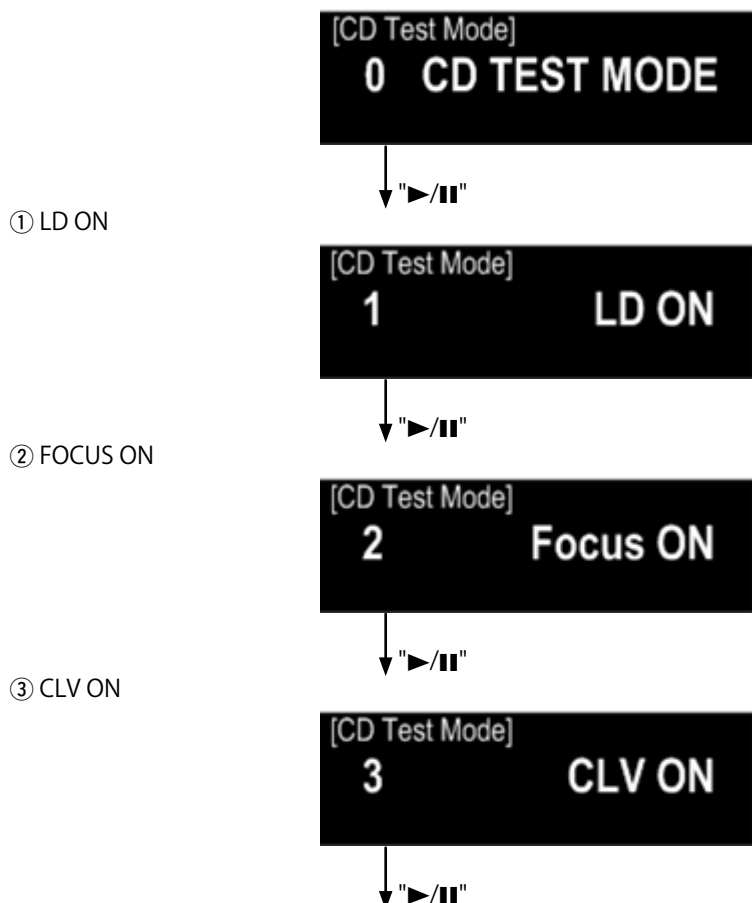
Open the tray and set the disc.

Even if the disc is, the tray must let OPEN → CLOSE.

### 4.3. Servo check

Press "▶/||" button. Execute the following steps.

\* Press and hold the "▶/||" button for at least one second to proceed directly to the step in which the sub code from ⑤ is read. Press the "INPUT" button to return to the "0 CD TEST MODE" display.



#### ④ TRACKING ON

[CD Test Mode]  
4 Tracking ON

↓ "▶/||"

#### ⑤ READ SUB CODE (playback sound is output)

The BER (Block Error Rate) that occurred for one second is displayed.

[CD Test Mode]  
5 IN ERR: xxxxx  
xTr mm:ss

↓ "Cursor <"    ↑ "Cursor >"

[CD Test Mode]  
5 MID ERR: xxxxx  
xTr mm:ss

↓ "Cursor <"    ↑ "Cursor >"

[CD Test Mode]  
5 OUT ERR: xxxxx  
xTr mm:ss

Inner (IN), Ataru Amare (MID), outer (OUT) to play go to three places, make the error count.

#### 4.4. Pickup movement

In the stop mode, pickup moves in FWD (outwards) or REV (inwards) direction when "Cursor >" or "Cursor <" button pressed.

Pickup movement stops when button released. (Pickup moves while button is pressed)

When "Cursor <" button pressed, move to stop operation after detection that inner switch has turned on.

[CD Test Mode]  
0 CD TEST MODE

#### 4.4. All servo on and Auto Adjustment

When "**Cursor**  $\Delta$ " button is pressed, all servos turn on, auto adjustment is performed and switch to playback operation.  
(Playback sound output)

##### Stop (stop to the playback state after auto adjustment)

When "**SOURCE**" button is pressed, play operation and servo stop. The following will be displayed.  
After stopping, conduct reading of auto adjust values.



##### Adjustment value display (After All Servo on and Auto Adjustment)

Press the "**SOURCE**" button, after All servo on and Auto Adjustment.

When "**Cursor**  $\Delta/\nabla$ " button is pressed, the adjustment values are displayed in the following order.

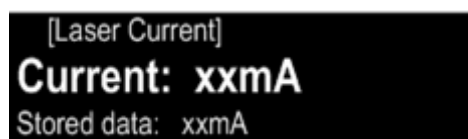
- ① FOCUS BALANCE
- ② FOCUS GAIN
- ③ TRACKING BALANCE
- ④ TRACKING GAIN
- ⑤ FOCUS OFFSET
- ⑥ TRACKING OFFSET
- ⑦ RFRP

(Caution) If you have not completed the adjustment, the value is not correct.



#### 4.5. Laser current display

When "**VOLUME**  $\blacktriangle$ " button is pressed for over 1 second while the Unit is in the CD TEST MODE, the laser turns on and the laser current is measured.



The voltage when the laser is on and off is measured (converted to A/D) and the current is calculated from this. The decimal point is omitted.

The current value is updated every 3 seconds.

Press the "**SOURCE**" button, CD TEST MODE display reappears.

Stored data is not cleared, even when the Unit is reset(Factory/User).

⚠ The initial value of the factory, is "**50mA**" or less.

##### Overwriting the stored data

When the "**►/III**" button is pressed for over 5 seconds while the laser current is displayed, the current value is stored in the EEPROM (overwriting the stored data).



Once rewriting is completed, the display in "Laser current display" reappears. Rewriting is performed upon shipment from the factory and when the mechanism is replaced.

#### 4.6. Accumulated laser on time display

When the "**Volume ▼**" button is pressed while this Unit is in the "CD TEST MODE" displayed, the accumulated laser on time is displayed.



The laser drive times are added and the result is displayed.

The time is counted in 10-minute blocks and the count values are displayed in hourly units. Values for up to 10922 hours are displayed.

Press the "**SOURCE**" button, CD TEST MODE display reappears.

The count values are not cleared, even when the set is reset (Factory/User).

##### Count value is reset

When the "▶/||" button is pressed for over 5 seconds while the accumulated laser on time is displayed, the count value is reset.



Count value is reset upon shipment from the factory and when the mechanism is replaced.

### 5. Protection History Display Mode

#### 5.1.Operation

In "STANDBY" status, press and hold the "**CURSOR ◀**" and "**INPUT SOURCE**" buttons along with the power operation button to turn on the power.

##### Startup display

"Detect Protection" displayed for 5 seconds.

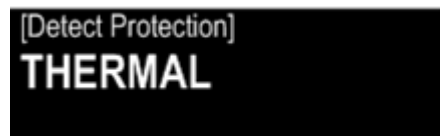


To exit this mode, unplug the power cord.

(a) No detection history



(b) Thermal protection



Abnormal increases in D-AMP temperature are detected (TAS5142).



(c) Speaker short protection



Potential difference across the terminal detects that the speaker was more than  $DC \pm 3V$ .

(d) Over current



Over-current detection digital amplifier(TAS5142)

(e) DC protect1



Short of fail(+29V[D-AMP power])

(e) DC protect1



Short of fail(+12V, -12V, +5V).

### Protection history is reset.

When the "**Cursor**△" button is pressed for over 5 seconds while the protection history is displayed, the count value is reset.



"**No Protection**" is displayed after the history is cleared.



After the reset is complete, the display "No Protection".

## 6. CD heat run mode

### Heat run mode Startup display

"Heatrun Mode" displayed for 5 seconds.



Press the "**Cursor**

After loading the disc, press "**▶/II**" button.

While heat run, the operation of each button is not valid. If an error occurs, display the error and stop operation at that point. Refer to Heat run error code table.

To exit this mode, unplug the power cord.

### 6.1. Normal heat run mode

Playing from the first track to last track on disc. After disc playback has finished, then tray open and close. And playback again.

The heat run repetition no. is incremented (increased by 1) when the tray is opened.

Repeat this operation.

[H.R. Normal] displayed.

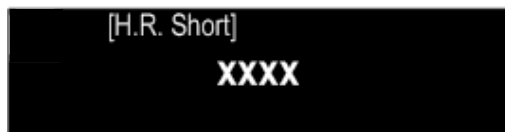


Select "**H.R.Normal**", and press "**▶/II**" button.

Press the "**Cursor**

## 6.2. Heat run Short mode

Playing last track on disc. After disc playback has finished, then tray open and close. And playback again. The heat run repetition no. is incremented (increased by 1) when the tray is opened. Repeat this operation.  
[H.R. Short] displayed.



Select "H.R.Short", and press "▶/||" button.  
Press the "Cursor Δ" button to display the count.

## 6.3. Heat run chacking mode

TOC read the CD, the first song disk search, open / closed later, and again read TOC. The heat run repetition no. is incremented (increased by 1) when the tray is opened. Repeat this operation.  
[H.R. Chacking] displayed.



Select "H.R.Chacking", and press "▶/||" button.  
Press the "Cursor Δ" button to display the count.

## 6.4. Error display

Press the "Cursor Δ/▽" to display the error information.



Heat run error code table

| Error Code | Details of Error code                                                     |
|------------|---------------------------------------------------------------------------|
| E1-00      | Disc cannot be detected                                                   |
| E1-01      | Tracking offset adjustment not possible                                   |
| E1-02      | Focus offset adjustment not possible                                      |
| E2-00      | Focus servo dropped during playback.                                      |
| E2-01      | Focus servo dropped during searching.                                     |
| E2-03      | Focus servo dropped during TOC reading.                                   |
| E2-05      | Focus servo dropped during manual search.                                 |
| E2-10      | Subcode can no longer be read during playback                             |
| E2-11      | Subcode can no longer be read during searching                            |
| E2-12      | Subcode can no longer be read during TOC reading                          |
| E2-14      | Subcode cannot be read during pause                                       |
| E2-15      | Subcode cannot be read during manual search                               |
| E3-00      | TOC could not be read within specified time                               |
| E3-01      | PVD/SVD analysis could not be completed within specified time             |
| E4-04      | Search time out (The search was not completed within the stipulated time) |
| E4-05      | Decoder bus error (Error in communications with CD decoder)               |
| E5-00      | Inner switch not on                                                       |
| E6-00      | Inner switch not off                                                      |
| E8-00      | Tray is not opened by the specified time.                                 |
| E8-01      | Tray is not closed by the specified time.                                 |
| E9-00      | CD Microprocessor error                                                   |
| E9-01      | Other error                                                               |

## PROCEDURE AFTER REPLACING THE MICROPROCESSOR, ETC.

The procedure after replacing the u-COM (microprocessor), flash ROM, etc. is as follows.

| PCB Name                                                                                   | Ref. No.                                                                              | Description       | Procedure after Replacement | Remark                                                                  |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|-----------------------------|-------------------------------------------------------------------------|
| MAIN                                                                                       | IC28                                                                                  | R5F56108VNFP      | B                           |                                                                         |
| EXPLODED  | C36  | CY920 MODULE ASSY | B                           | SOFTWARE: SYSTEM<br>Be sure to replace the NFC module at the same time. |

Procedure after Replacement

**A** : The software has been written. The software is not written at the time of replacement.

**B** : The software has been written. The software may need to be rewritten by version updates. Check the version.

**C** : The software has not been written. The software needs to be written after replacement.

See "**Firmware Update Procedure**" for information on writing the software.

**D** : The software has been written. Be sure to rewrite with the latest software for your service region.

See "**Firmware Update Procedure**" for information on writing the software.

## FIRMWARE UPDATE PROCEDURE

### 1. Updating by USB

The latest firmware can be downloaded to a USB memory for updates.

#### 1.1. Connecting to the USB Memory

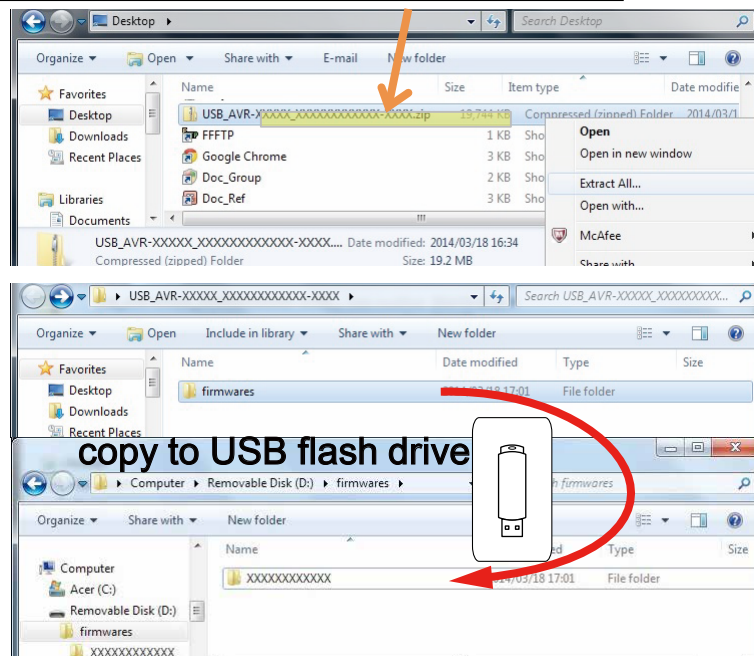
(1) Preparation

- USB format : Prepare a USB memory formatted in FAT16 or FAT32.
- Do not run the USB memory through a hub.
- Do not connect a computer to the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting the USB unit.

#### 1.2. Unzip Download File

Unzip the downloaded file on your computer.

|             |                                       |
|-------------|---------------------------------------|
| RCD-XXXXXXX | USB_RCD-XXXXXXX_XXXXXXXXXXXX-XXXX.zip |
|-------------|---------------------------------------|



You can find "**firmwares**" folder after unzipped.

Copy that folder to USB flash drive.

You have to put "**firmwares**" folder on root directly on USB flash drive(memory).

### 1.3. File structure on USB Memory

Copy the update files to the USB memory with the following structure:

USB memory root

| Model Name | Model Area  | Product ID   |
|------------|-------------|--------------|
| RCD-N9     | Europe (E2) | 000200140200 |
|            | China (E1C) | 000200140500 |
|            | Japan (JP)  | 000200140400 |

+ firmwares

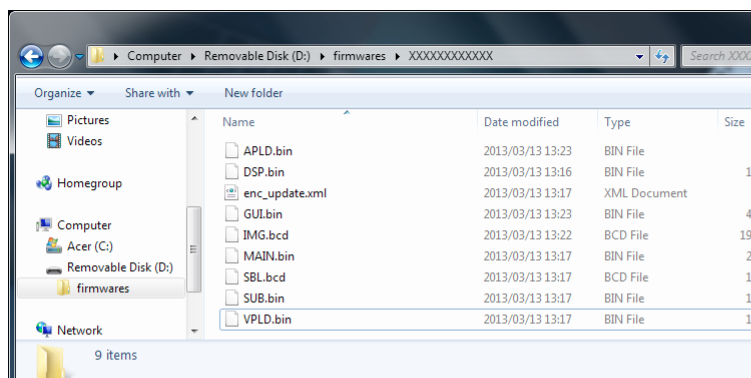
+ 000200XXXXXX

+ enc\_update.xml

+ IMG.bcd

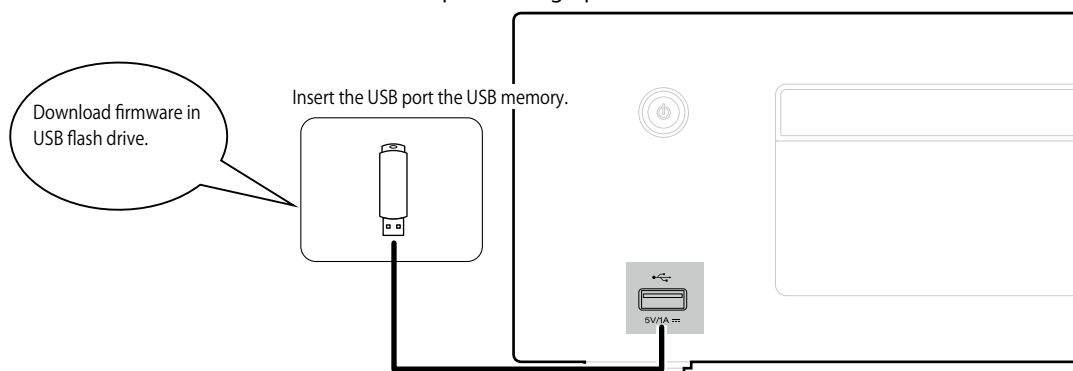
+ SBL.bcd

+ SYS.bin



### 1.4. Insert the USB memory in the USB port.

NOTE : Remove the LAN cable from this unit when performing updates.



### 1.5. Start the update.

In "STANDBY" status, press and hold the "CURSOR ▷" and "INPUT SOURCE" buttons along with the power operation button to turn on the power.

### 1.6. Display during USB update

The following message appears on the display:

Display



### 1.7. Press the "ENTER" key on the remote control unit or this unit.

Then start Firmware Update.

Display



### 1.4. The firmware update finishes.

Update after restart.

#### --- Precautions for Updates ---

- Wait for 60 seconds before turning the power back on( AC ON → OFF → ON ).
  - Never remove the USB memory before the update is finished.
  - Never turn off the power before an update is completed.
  - It takes around 30 minutes to complete the update.
- Once an update is started, normal operations cannot be performed until it is completed.  
Also, the settings of the unit may be initialized.  
Take note of your settings beforehand and reconfigure them after the update.

## 2. Forced USB All Device Write Mode

### 2.1. Actions

Mode used when this unit cannot be recovered.  
Forcibly switches this unit to USB update mode.

### 2.2. Operations

While holding down the "CURSOR △" and "▶/■/ENTER" buttons, insert the AC plug, turn on the power and wait at least three seconds.

**NOTE :** When you start this operation, you should waiting for until the charge of internal is completely discharged about 2 minutes.

### 2.3. Forced USB All Device Write Mode

The following message appears on the display:

Display



### 2.4. The firmware update finishes.

The update after the restart, all devices will be updated.



### 3. Error Code Table of FIRMWARE UPDATE

- Preparation operation rewritten, Update error code checking.

| ErrCode (Hex) | The occurred event                                                                      | OLED Message                            |
|---------------|-----------------------------------------------------------------------------------------|-----------------------------------------|
| 01            | Login failed (DPMS Access Login Incorrect notification)                                 | Login failed 01                         |
| 02            | Login failed (DPMS Access Server Busy information)                                      | Server is busy 02                       |
| 03            | Login failed (DPMS Access link failure information)                                     | Connection fail 03                      |
| 04            | Firmware Individual information acquisition failure                                     | Connection fail 04                      |
| 05            | Firmware Individual information acquisition TimeOut                                     | Connection fail 05                      |
| 06            | Firmware all information acquisition failure                                            | Connection fail 06                      |
| 07            | Firmware all information acquisition TimeOut                                            | Connection fail 07                      |
| 08            | Error notification received at the time of Firmware Info request                        | Connection fail 08                      |
| 09            | Firmware Info response acquisition Time Out                                             | Connection fail 09                      |
| 0A            | Firmware Down Load failed ((NG) information recieved)                                   | Download fail 0A                        |
| 0B            | Firmware Down Load failed ((ServerBusy) information recieved)                           | Download fail 0B                        |
| 0C            | Firmware Down Load failed ((Connection failed) information recieved)                    | Download fail 0C                        |
| 0D            | Received Package Version is wrong                                                       | Connection fail 0D                      |
| 20            | Transition to the Boot Loader Mode (Failure to acquire the IP Address (AutoIP))         | Connection fail 20                      |
| 21            | Transition to the Boot Loader Mode (Failure to acquire the IP Address (TimeOut))        | Connection fail 21                      |
| 22            | Transition to the Boot Loader Mode (DDPMS Access Login Incorrect notification)          | Login failed 22<br>/ Connection fail 22 |
| 23            | Transition to the Boot Loader Mode (DPMS Access Server busy infomation)                 | Server is busy 23                       |
| 24            | Transition to the Boot Loader Mode (DPMS Access Connection failed information recieved) | Connection fail 24                      |
| 25            | Transition fails to Boot Loader Mode                                                    | Connection fail 25                      |
| 27            | Write failure to the Boot Loader Mode to transition after the EEPROM                    | Connection fail 27                      |

- Firm error codes at the main microprocessor rewritten.

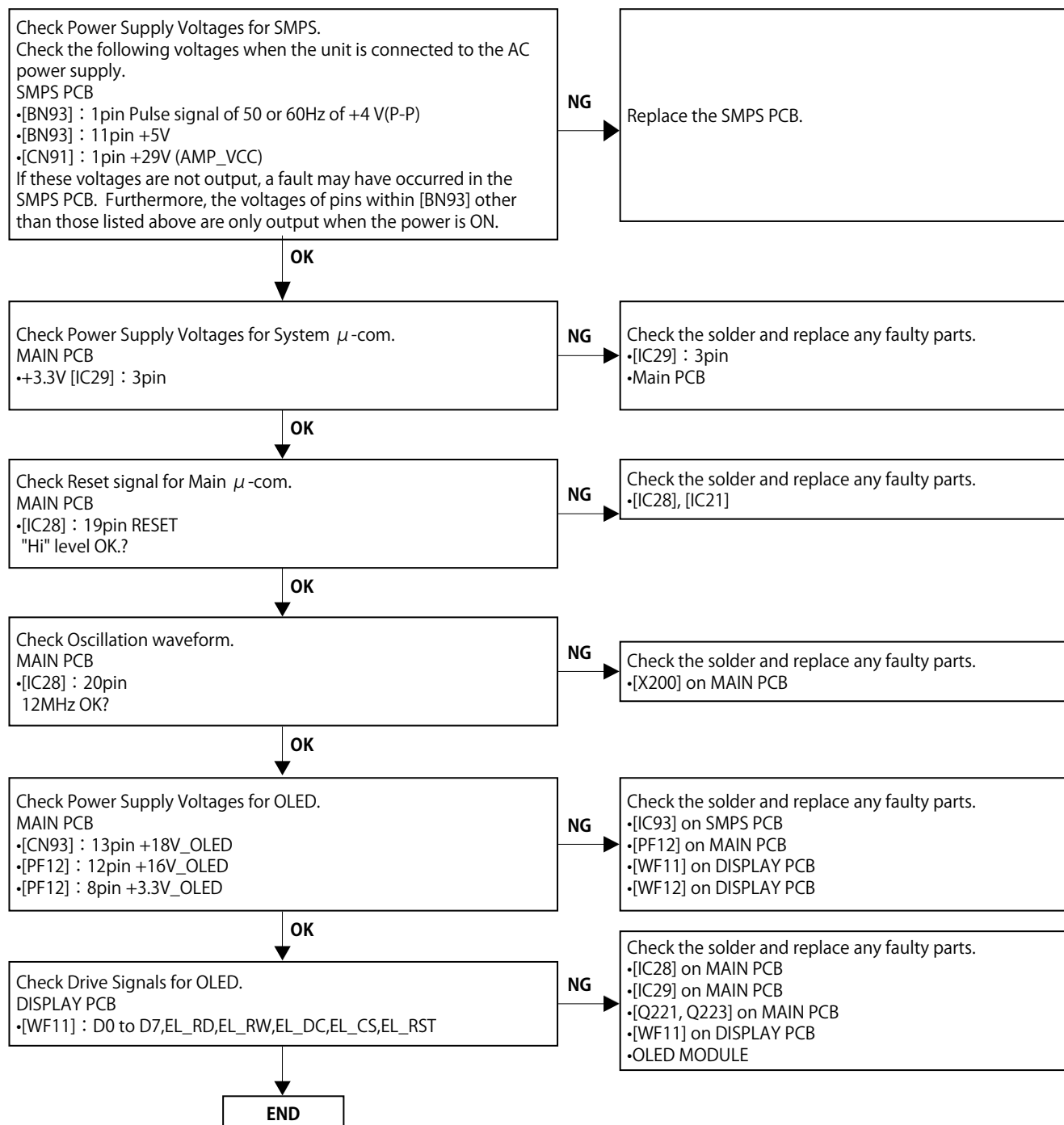
| ErrCode (Hex) | The occurred event                                                                                             | OLED Message                            |
|---------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 10            | Firm Info response acquisition Time Out (Main rewrite Firmware recived failure (Time Out))                     | Updating fail 10                        |
| 11            | Firm Info response acquisition recieved error (Main rewrite Firmware recived failure (Error))                  | Updating fail 11                        |
| 12            | Firm Info response acquisition recieved error (Main rewrite Firmware recived data incorrect (Check Sum Error)) | Updating fail 12                        |
| 13            | Rewrite failure (Block Erase failed before Main rewriting)                                                     | Erase fail 13                           |
| 14            | Rewrite failure (Block Write failed before Main rewriting)                                                     | Updating fail 14                        |
| 15            | Rewrite failure (Verify incorrect after Main rewriting)                                                        | Updating fail 15                        |
| 22            | Transition to the Boot Loader Mode (DPMS Access Login Incorrect notification)                                  | Login failed 22<br>/ Connection fail 22 |
| 23            | Transition to the Boot Loader Mode (DPMS Access Server busy infomation)                                        | Server is busy 23                       |
| 24            | Transition to the Boot Loader Mode (DPMS Access Connection failed infomation)                                  | Connection fail 24                      |
| 39            | Login failure (DPMS Access access Time Out)                                                                    | Connection fail 39                      |
| 3A            | Down Load failure (Download error (NG)information recieved)                                                    | Download fail 3A                        |
| 3B            | Down Load failure (Download error (Server Busy) information recieved)                                          | Server is busy 3B                       |
| 3C            | Down Load failure (Download error (connection failed)information recieved)                                     | Connection fail 3C                      |
| 3D            | Transition to the Boot Loader Mode (Failure to acquire the IP Address (Auto IP))                               | Connection fail 3D                      |
| 3E            | Transition to the Boot Loader Mode (Failure to acquire the IP Address (Time Out))                              | Connection fail 3E                      |
| 3F            | Fail in moving into Boot Loader Mode.                                                                          | Connection fail 3F                      |

- CX920 error codes when firmware rewriting.

| ErrCode (Hex) | The occurred event                                                         | OLED Message       |
|---------------|----------------------------------------------------------------------------|--------------------|
| A0            | Failure to acquire the IP Address (AutoIP)                                 | Connection fail A0 |
| A1            | Failure to acquire the IP Address (TimeOut)                                | Connection fail A1 |
| A2            | Login failed (DPMS Access Login Incorrect notification)                    | Login failed A2    |
| A3            | Login failed (DPMS Access Server busy infomation)                          | Server is busy A3  |
| A4            | Login failed (DPMS Access Connection failed infomation)                    | Connection fail A4 |
| A6            | Error notification received at the time of Firmware Info request           | Updating fail A6   |
| A7            | Firmware Info response acquisition Time Out                                | Updating fail A7   |
| AE            | Down Load failure (Download error (NG)information recieved)                | Download fail AE   |
| AF            | Down Load failure (Download error (Server Busy) information recieved)      | Download fail AF   |
| B0            | Down Load failure (Download error (connection failed)information recieved) | Download fail B0   |
| B1            | Down Load failure (Error at the time of Download (TimeOut))                | Download fail B1   |
| B2            | Firmware Down Load failed                                                  | Updating fail B2   |
| B4            | Transition fails to Boot Loader Mode                                       | Updating fail B4   |
| B5            | Transition fails to Application Mode                                       | Updating fail B5   |

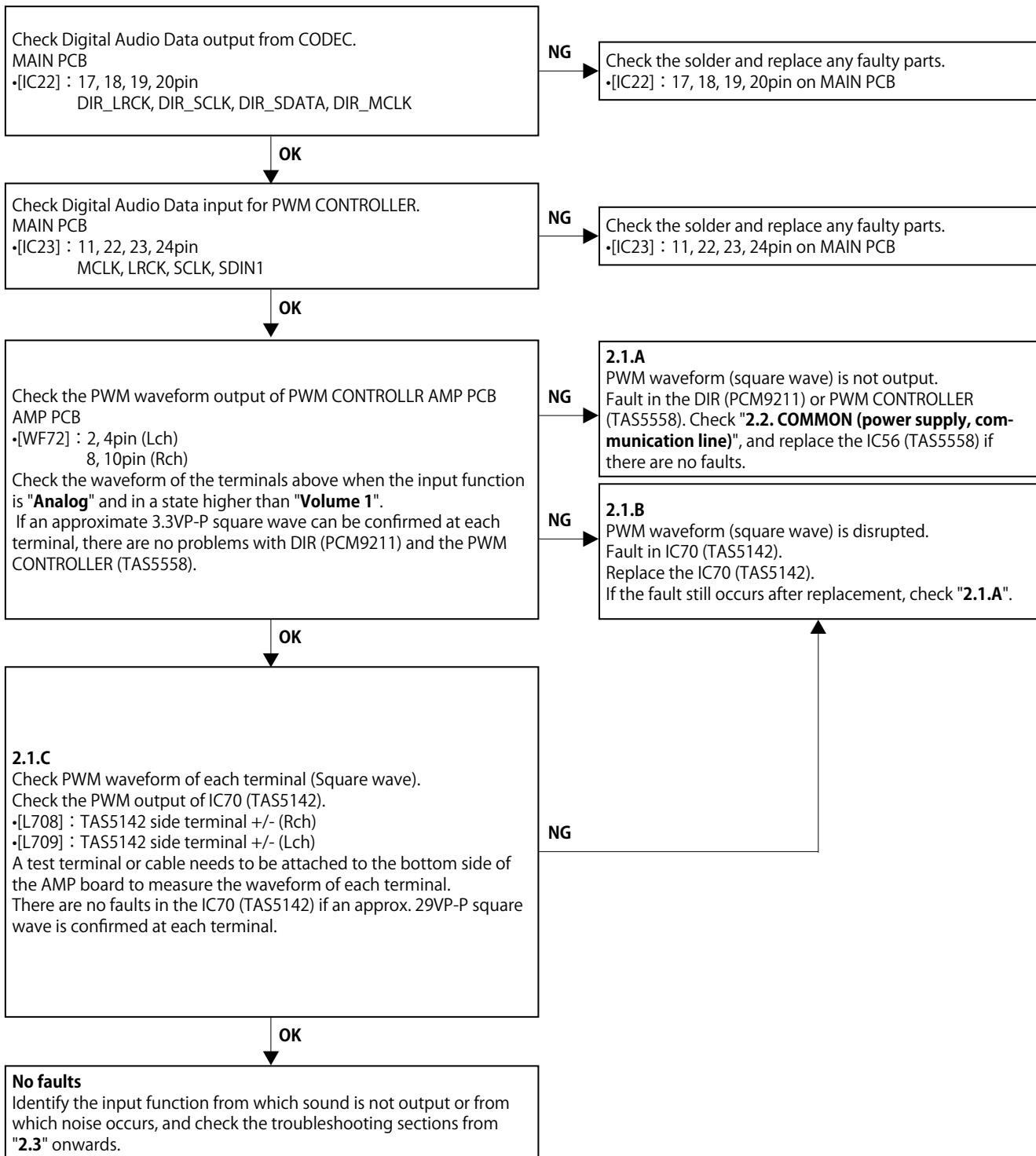
# TROUBLE SHOOTING

## 1. OLED dosen't light

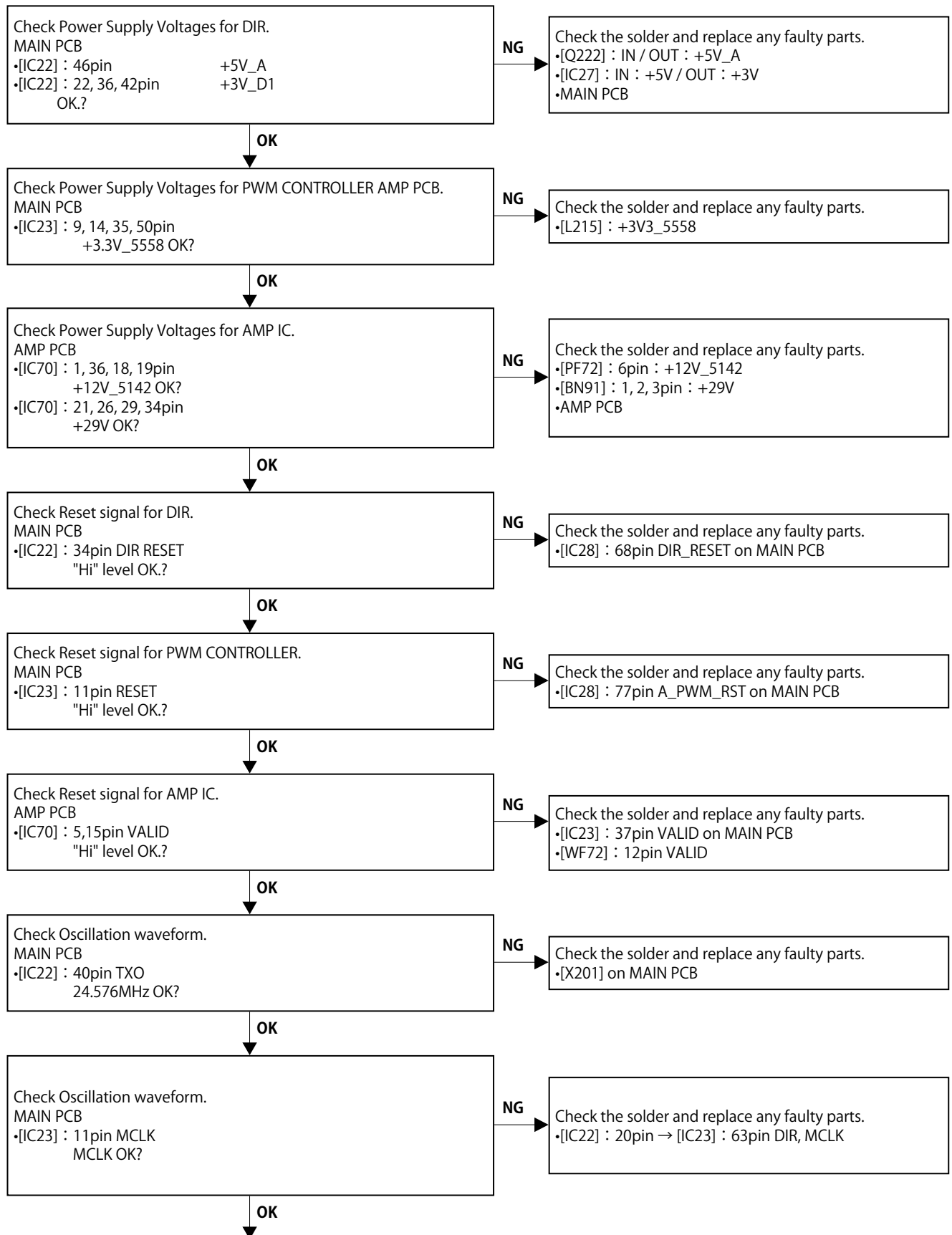


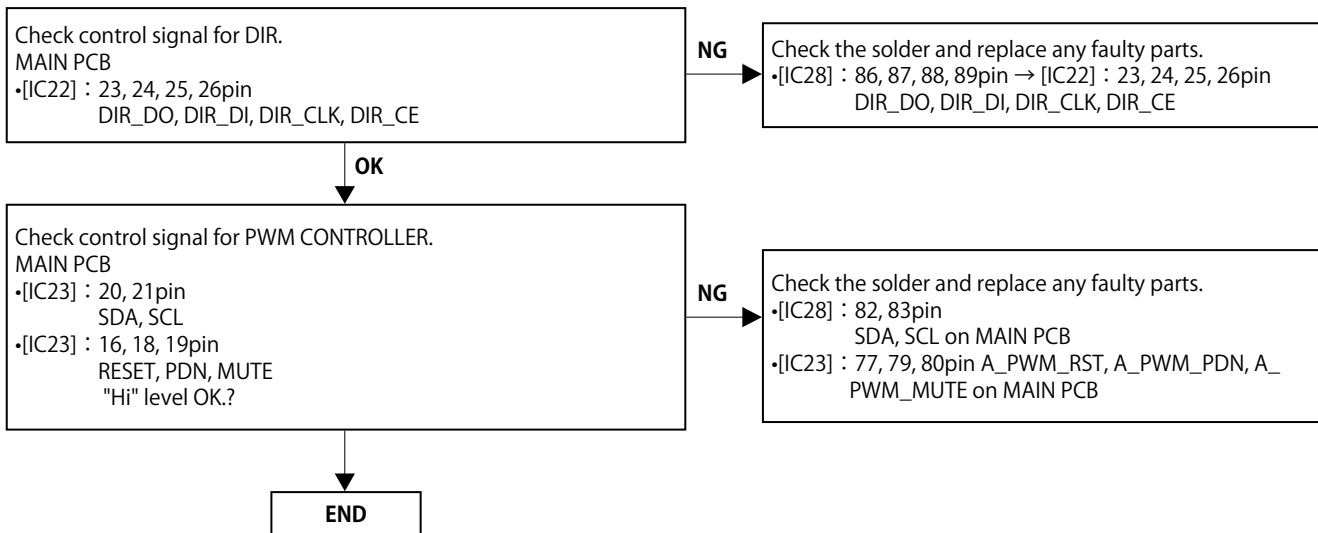
## 2. No Sound, Noise generated

### 2.1. COMMON(signal)

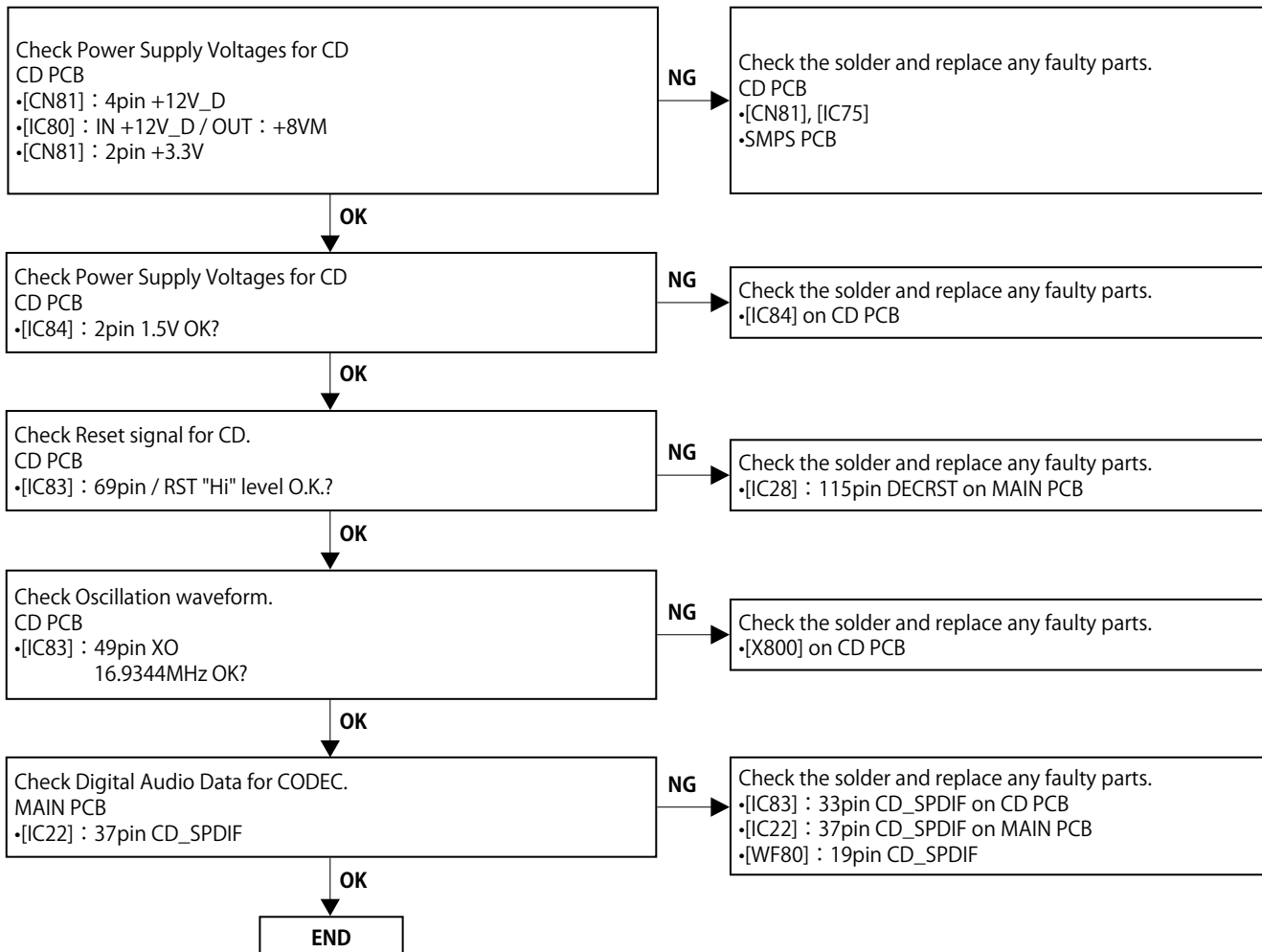


## 2.2. COMMON(POWER Control signal)

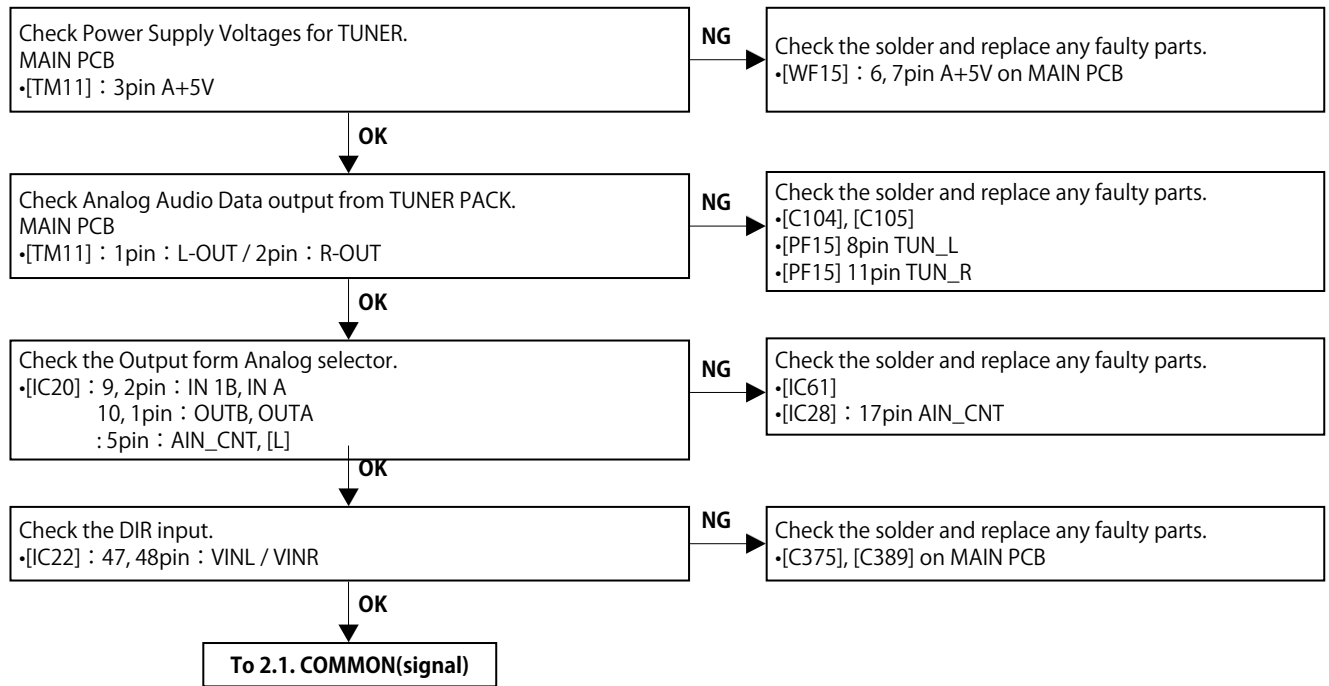




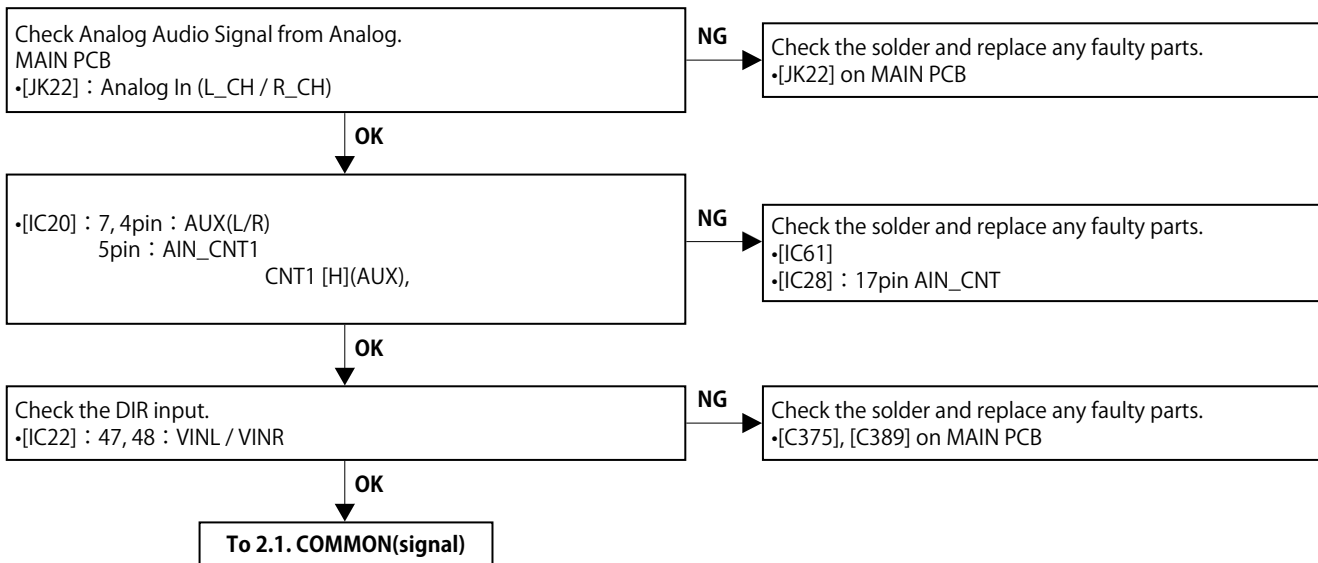
## 2.3. CD PLAY BACK



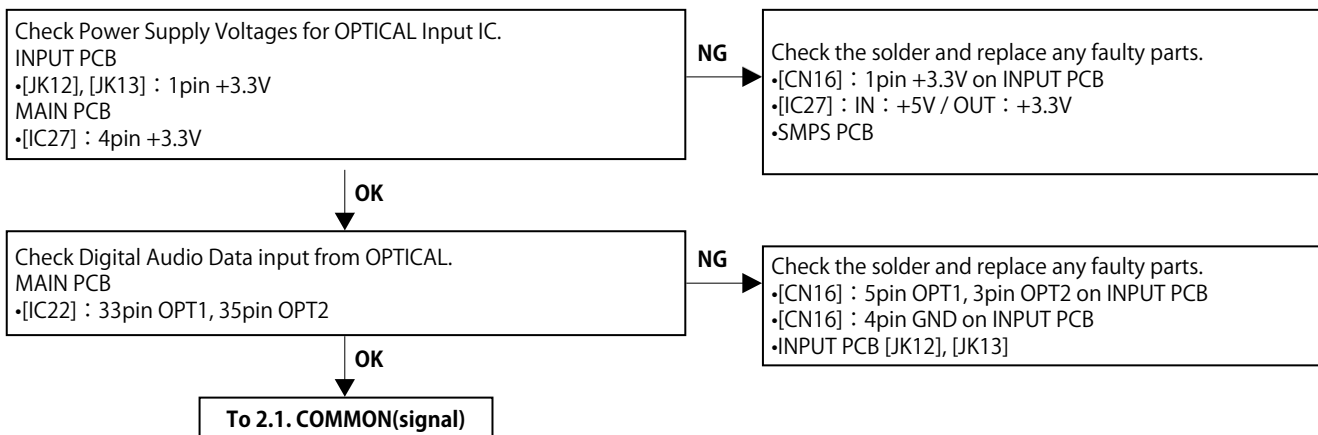
## 2.4 . TUNER



## 2.5 . Analog In

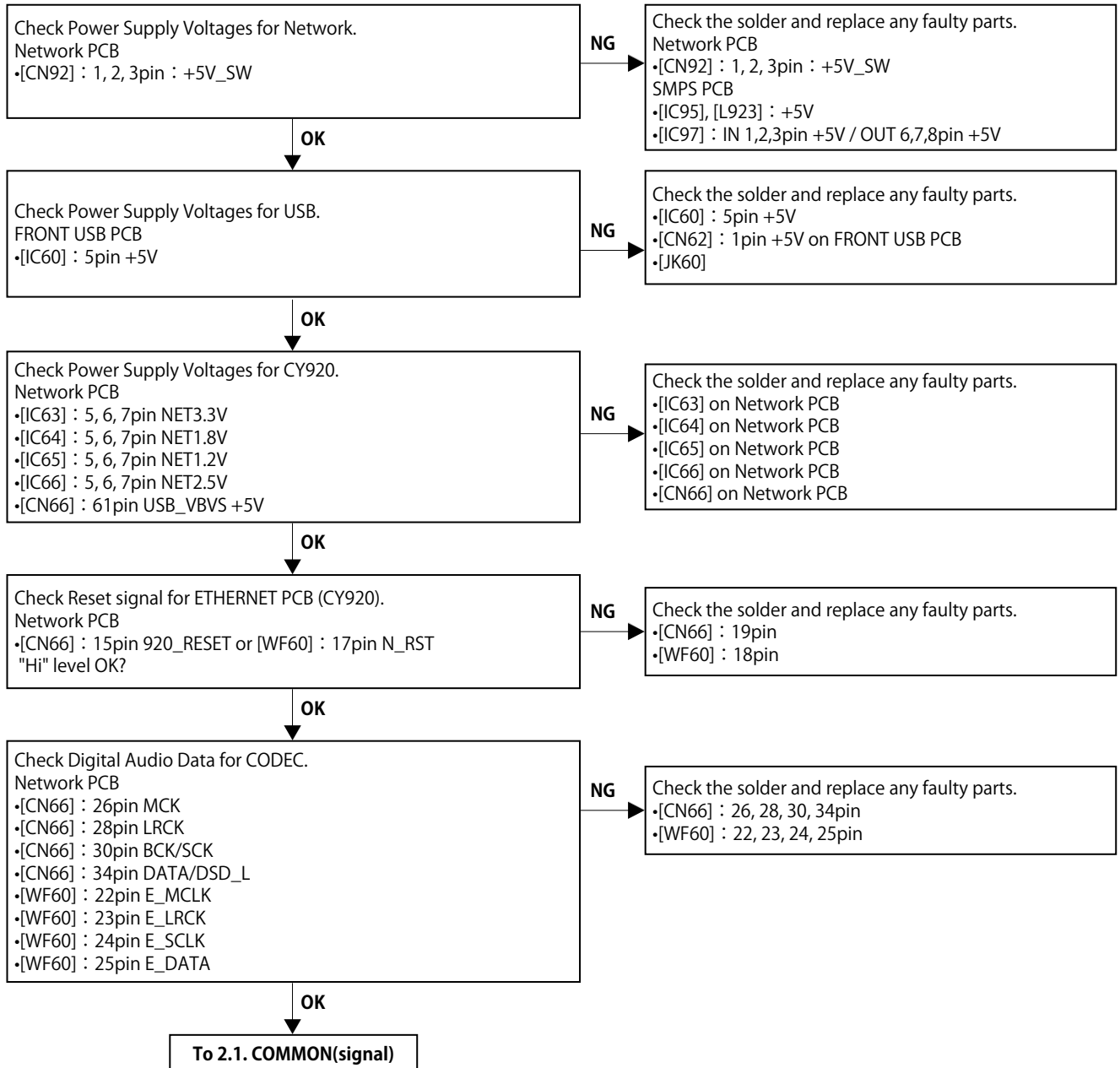


## 2.6. Digital In 1/2





## 2.7 . USB / ETHERNET / Wi-Fi



# MEASURING METHOD AND WAVEFORMS

To check the waveforms, the GND (-) probe of the oscilloscope to specified reference voltage.  
(Except for Inner SW, TRVSW)

## Caution

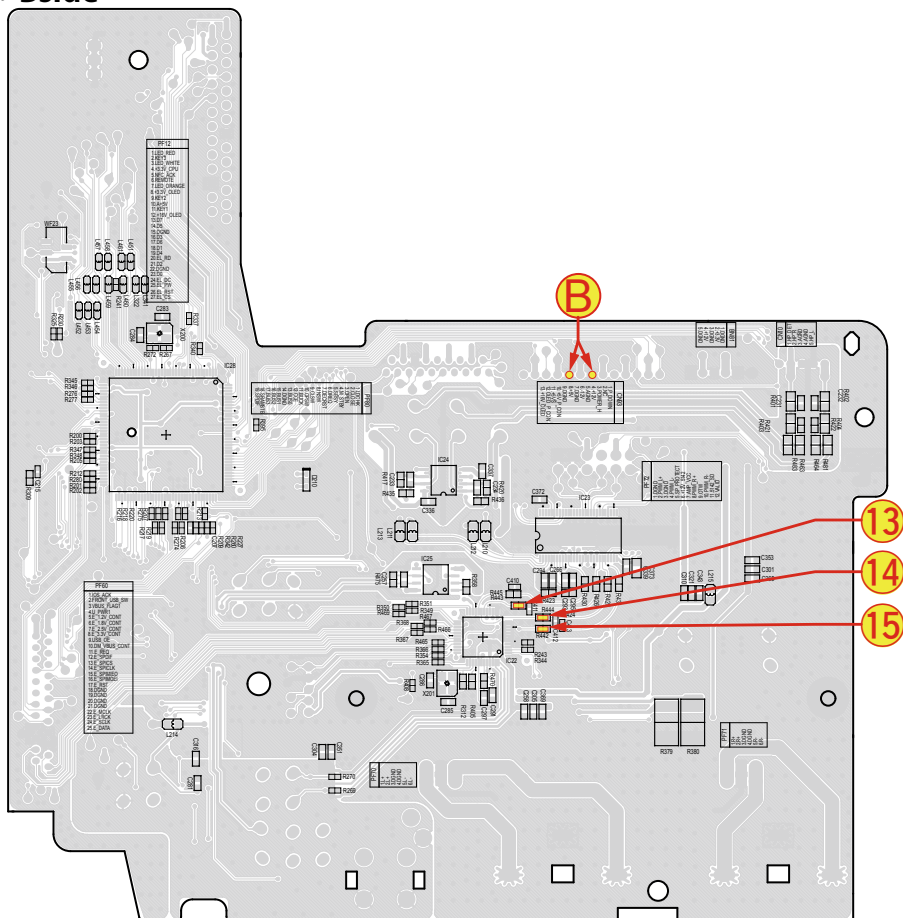
Measuring Disc : CD/TCD-784  
CD-R/TCD-R082W  
CD-RW/TCD-W082W

(It is the better way to use an extension wire between the test point and the probe.)

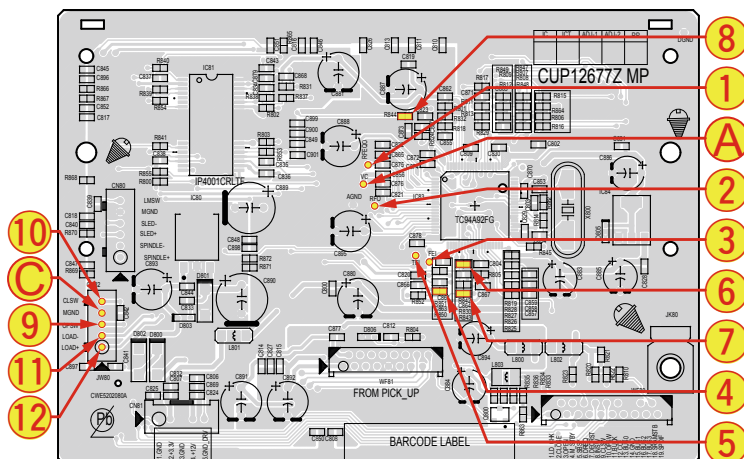
- When watching the HF waveform, use the extending wire as short as possible.
- When HF waveform is noisy or cannot discriminate the eye-pattern, replace the Traverse Unit after measuring the lop.
- Point ① - ⑮ is measured with the point shown below.

## 1. TEST POINT

### MAIN PCB : Bside



### CD PCB : Aside



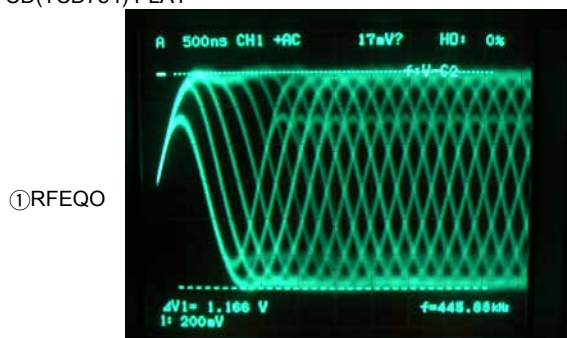
| No. | Symbol  |       |
|-----|---------|-------|
| ①   | TP      | RFEQO |
| ②   | TP      | RFO   |
| ③   | TP      | FEI   |
| ④   | R850    | FOC1  |
| ⑤   | TP      | TEI   |
| ⑥   | R842    | TRO1  |
| ⑦   | R843    | FMO1  |
| ⑧   | R844    | DMO1  |
| ⑨   | CN82(3) | OPSW  |
| ⑩   | CN82(5) | CLSW  |
| ⑪   | CN82(2) | LOAD+ |
| ⑫   | CN82(1) | LOAD- |
| ⑬   | R443    | LRCK  |
| ⑭   | R444    | SCLK  |
| ⑮   | R442    | SDATA |

| No. | Symbol        | Reference voltage |
|-----|---------------|-------------------|
| ①   | TP            | VC : ① - ⑧        |
| ②   | CN93 (7)or(9) | DGND : ⑬ - ⑮      |
| ③   | CN82(4)       | MGND : ⑨ - ⑫      |
|     |               |                   |
|     |               |                   |
|     |               |                   |
|     |               |                   |
|     |               |                   |
|     |               |                   |
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|     |               |                   |

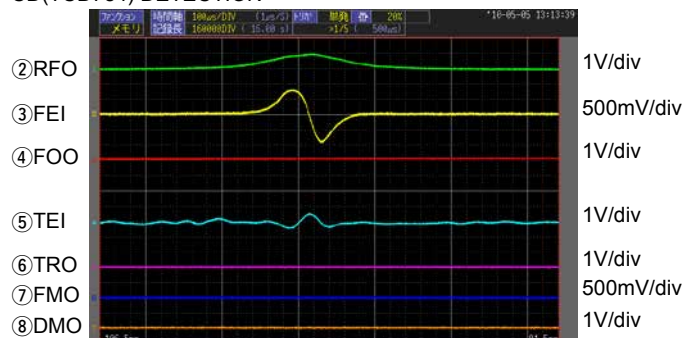
## 2. WAVEFORMS

### 1. DISC PLAY RF WAVEFORM (EYE-PATTERN) 2. DISC DETECTION

CD(TCD784) PLAY

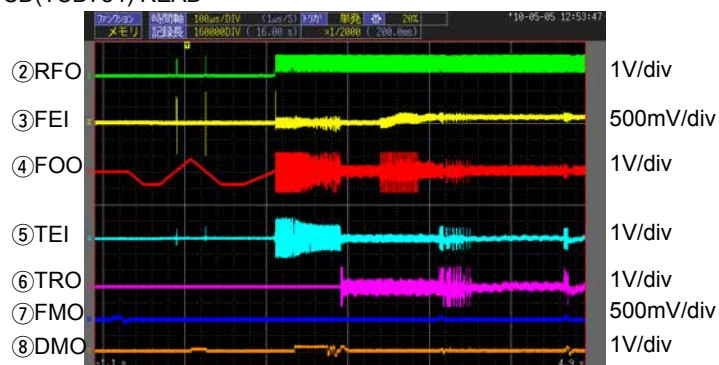


CD(TCD784) DETECTION



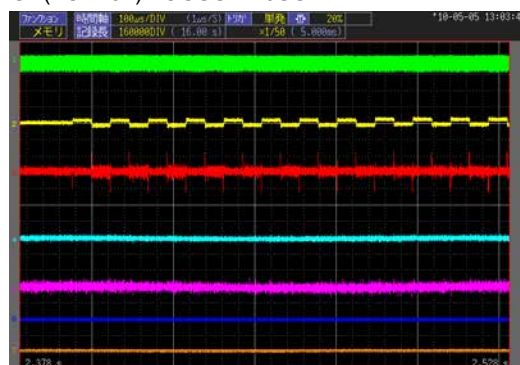
### 3. TOC READ

CD(TCD784) READ

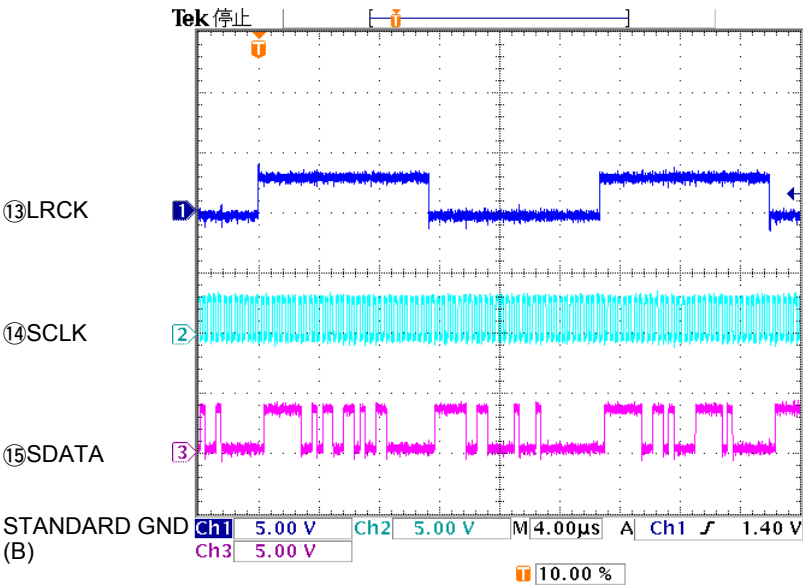


### 4. FOCUS ADJUSTMENT

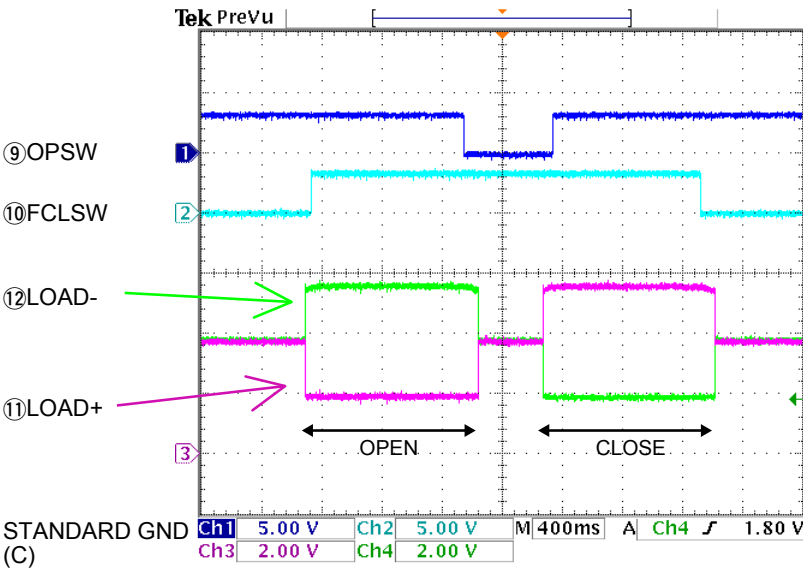
CD(TCD784) FOCUS ADJUSTMENT



4. CD Playback



5. LOADER OPEN-CLOSE

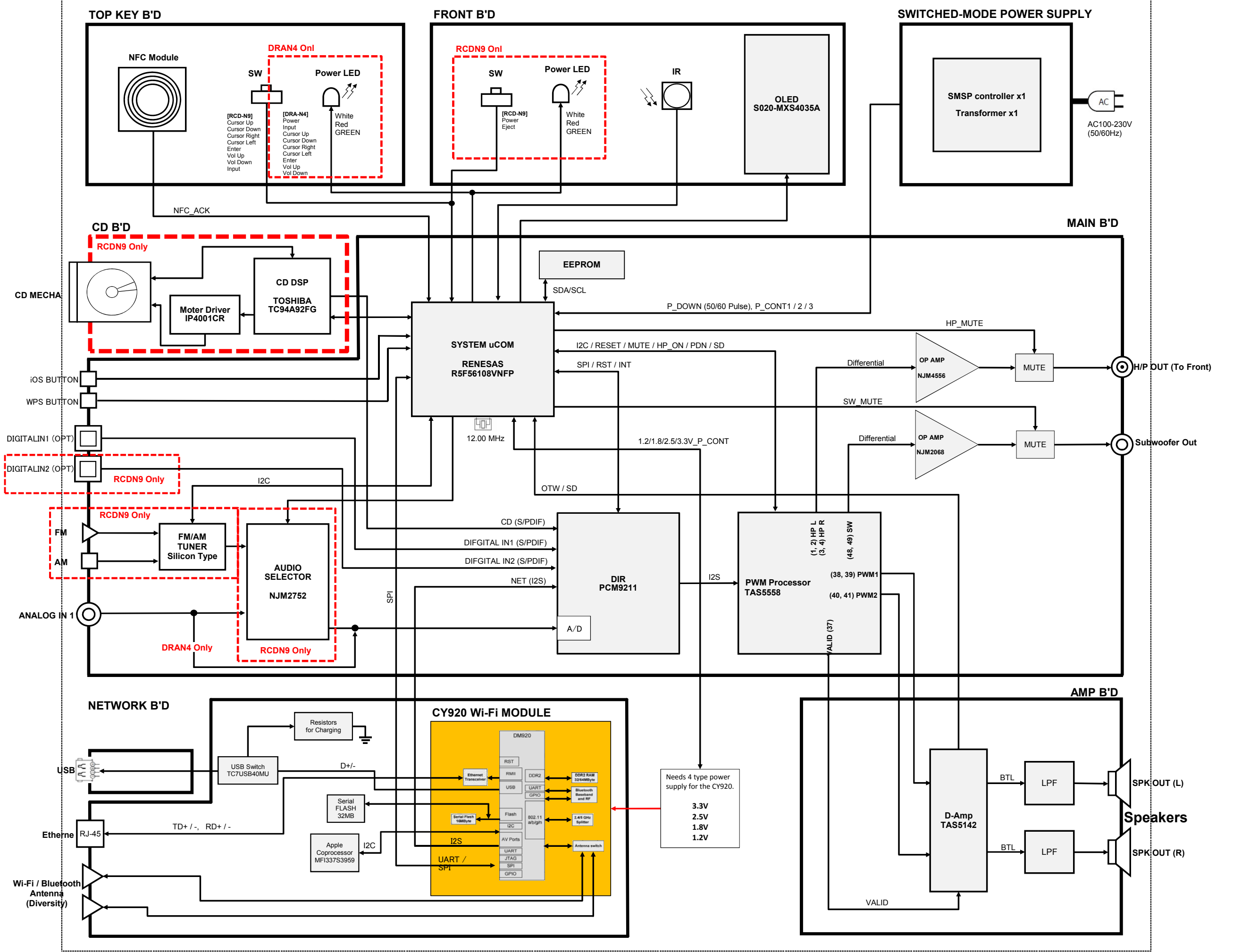


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**Personal notes:**

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BLOCK DIAGRAM

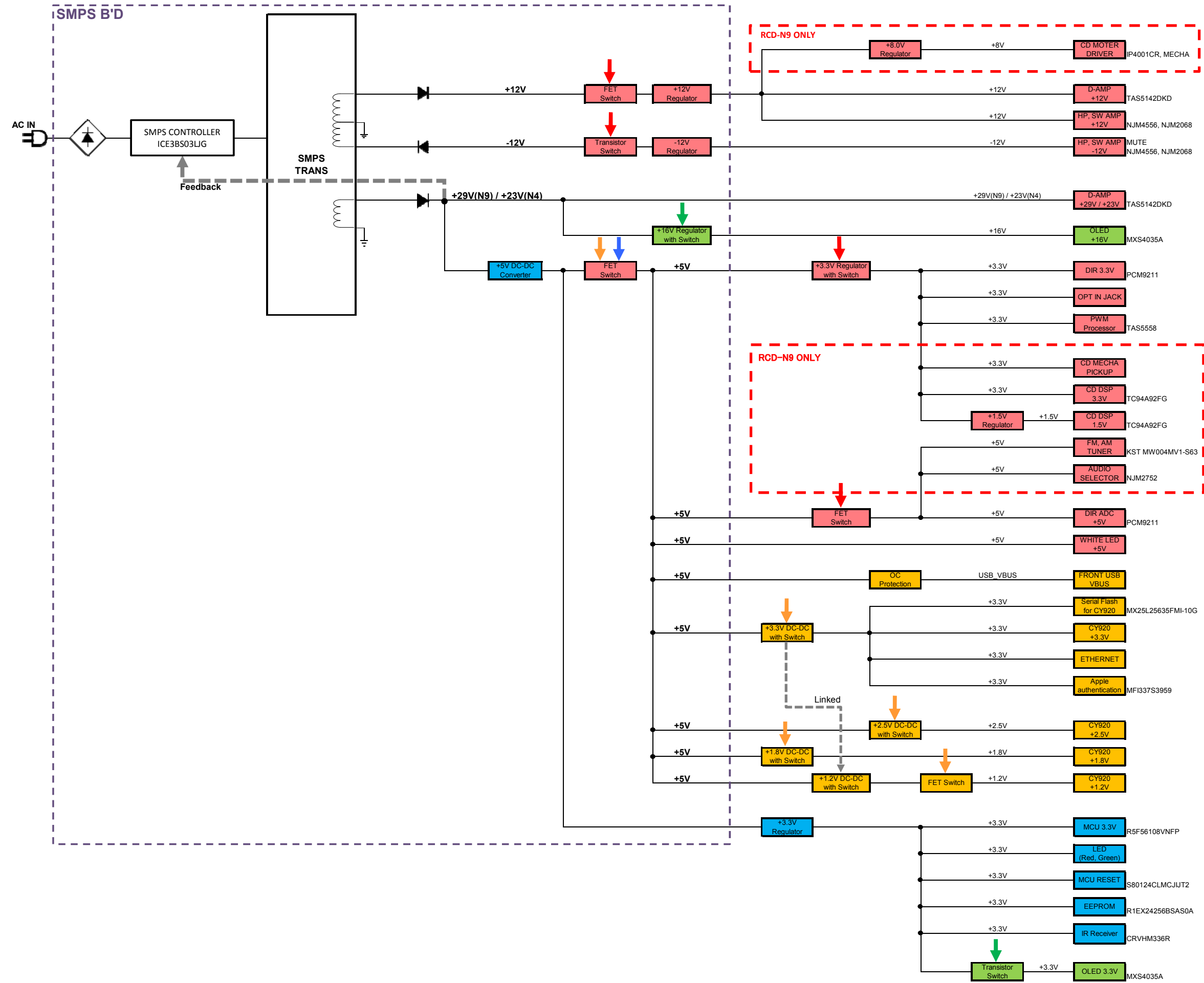


POWER DIAGRAM

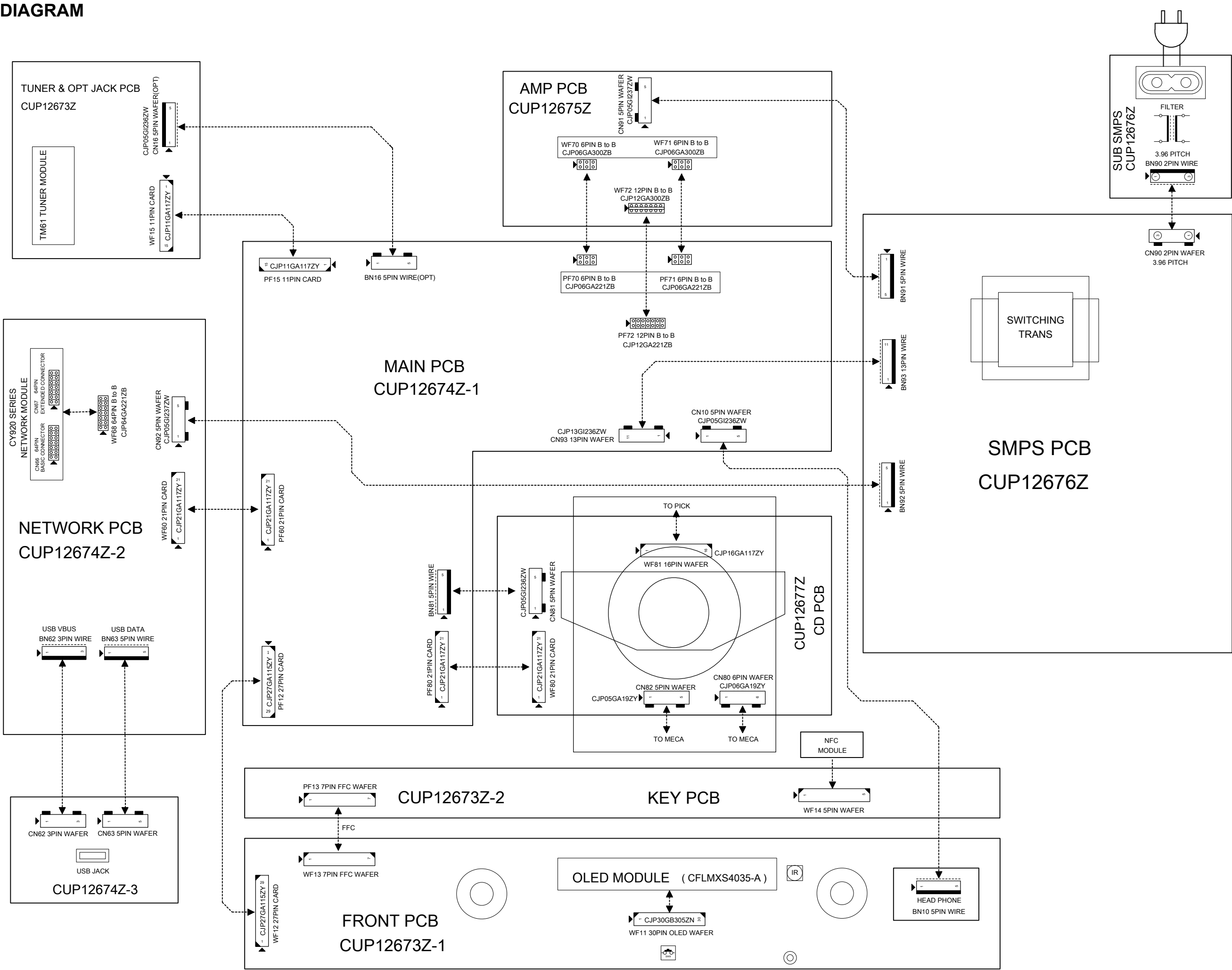
2

DRA-N4 / RCD-N9 POWER BLOCK DIAGRAM

Normal operation < 4W Network standby OLED standby < 0.3W Normal standby Audio Power Control Net Power Control OLED Power Control VBUS Power Control



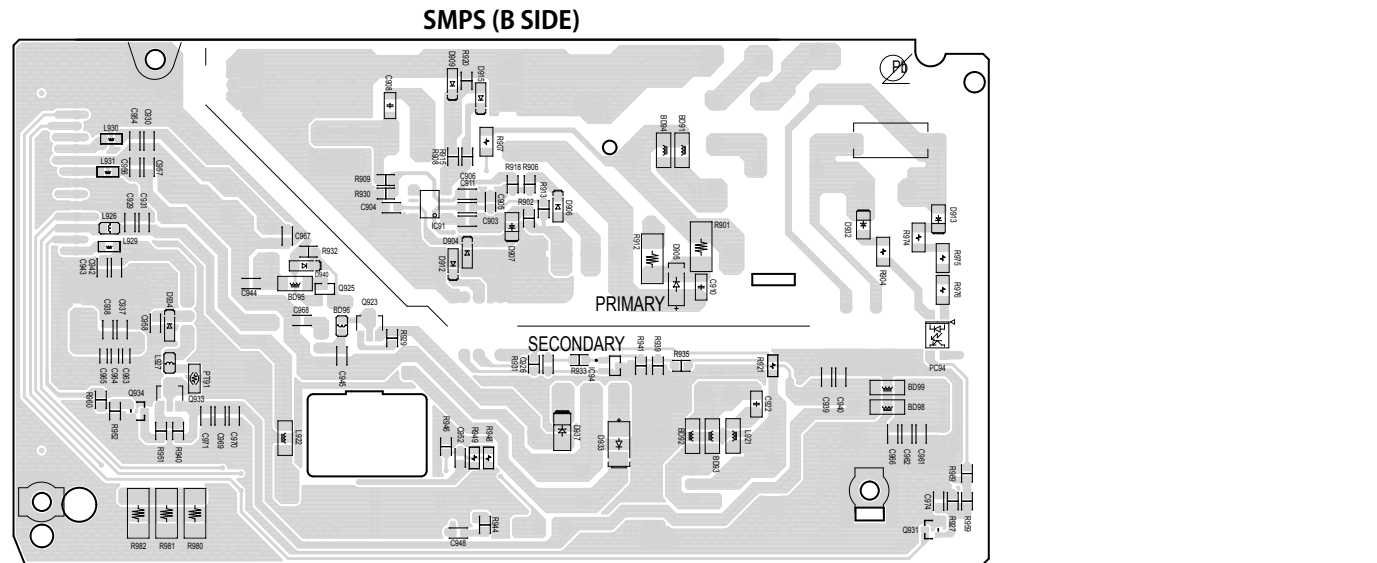
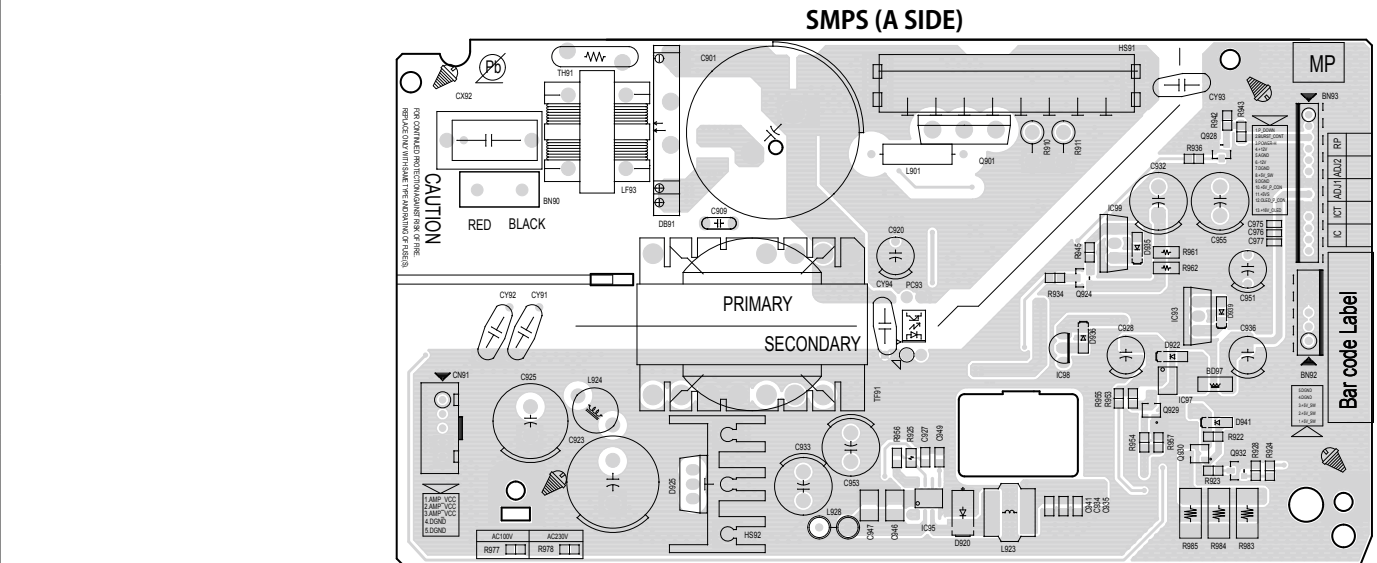
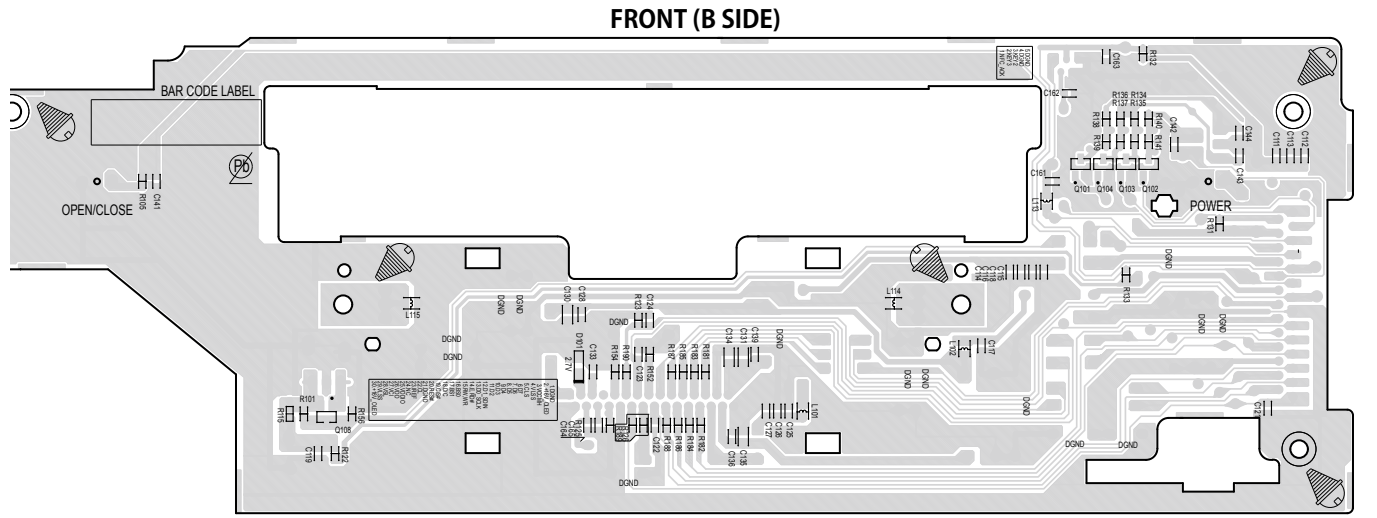
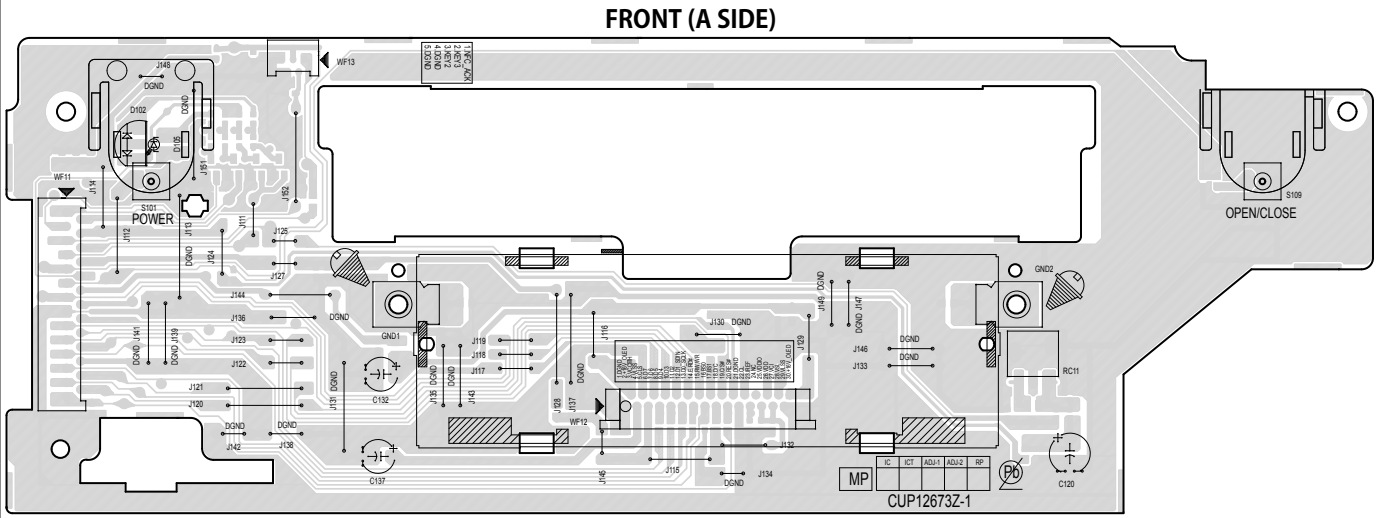
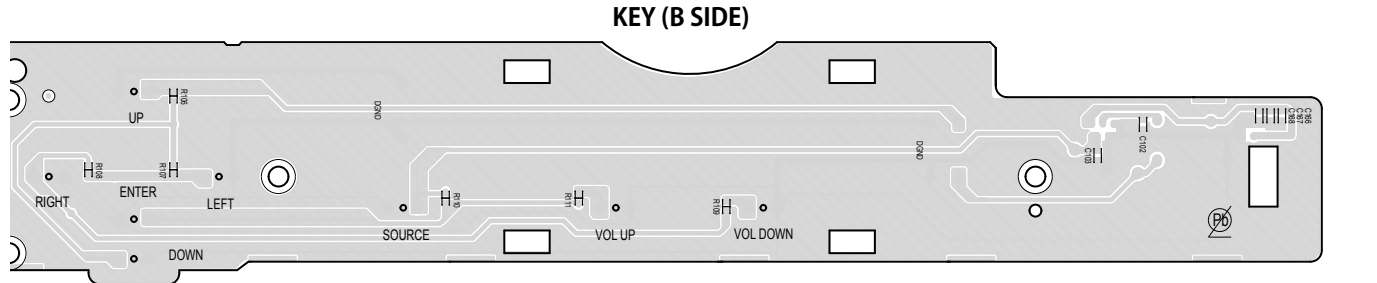
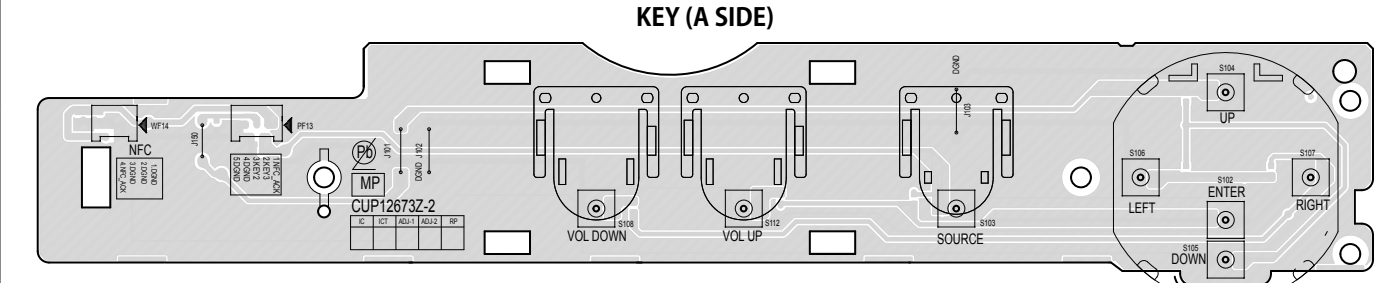
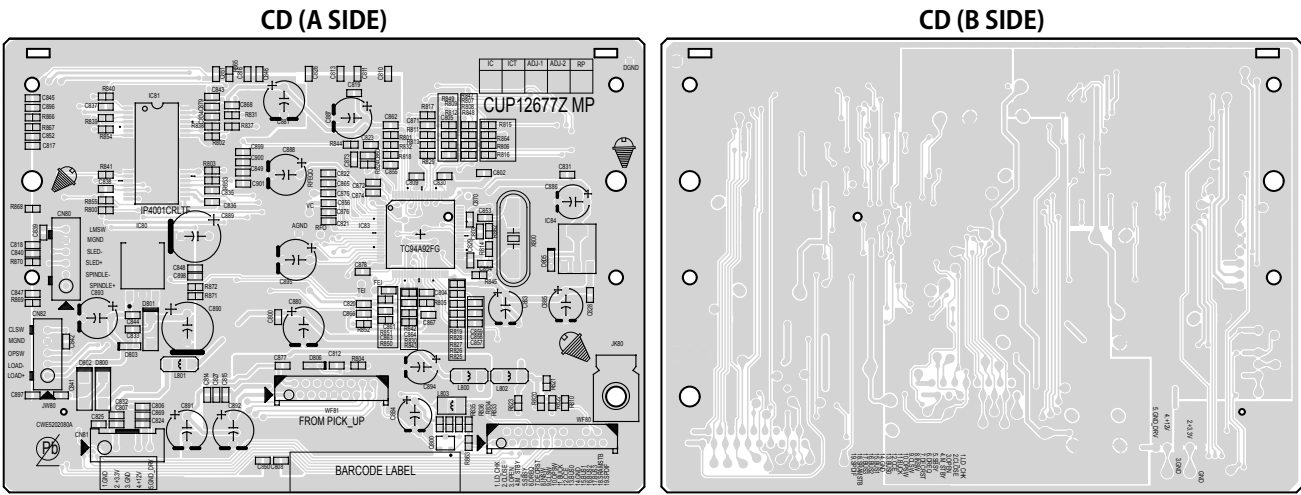
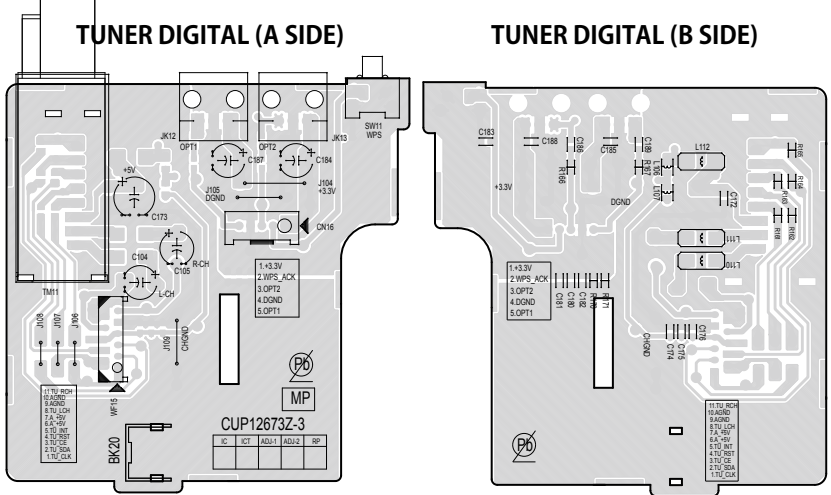
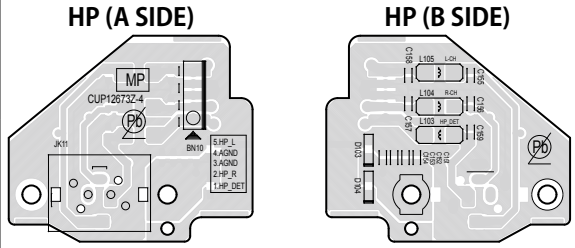
WIRING DIAGRAM



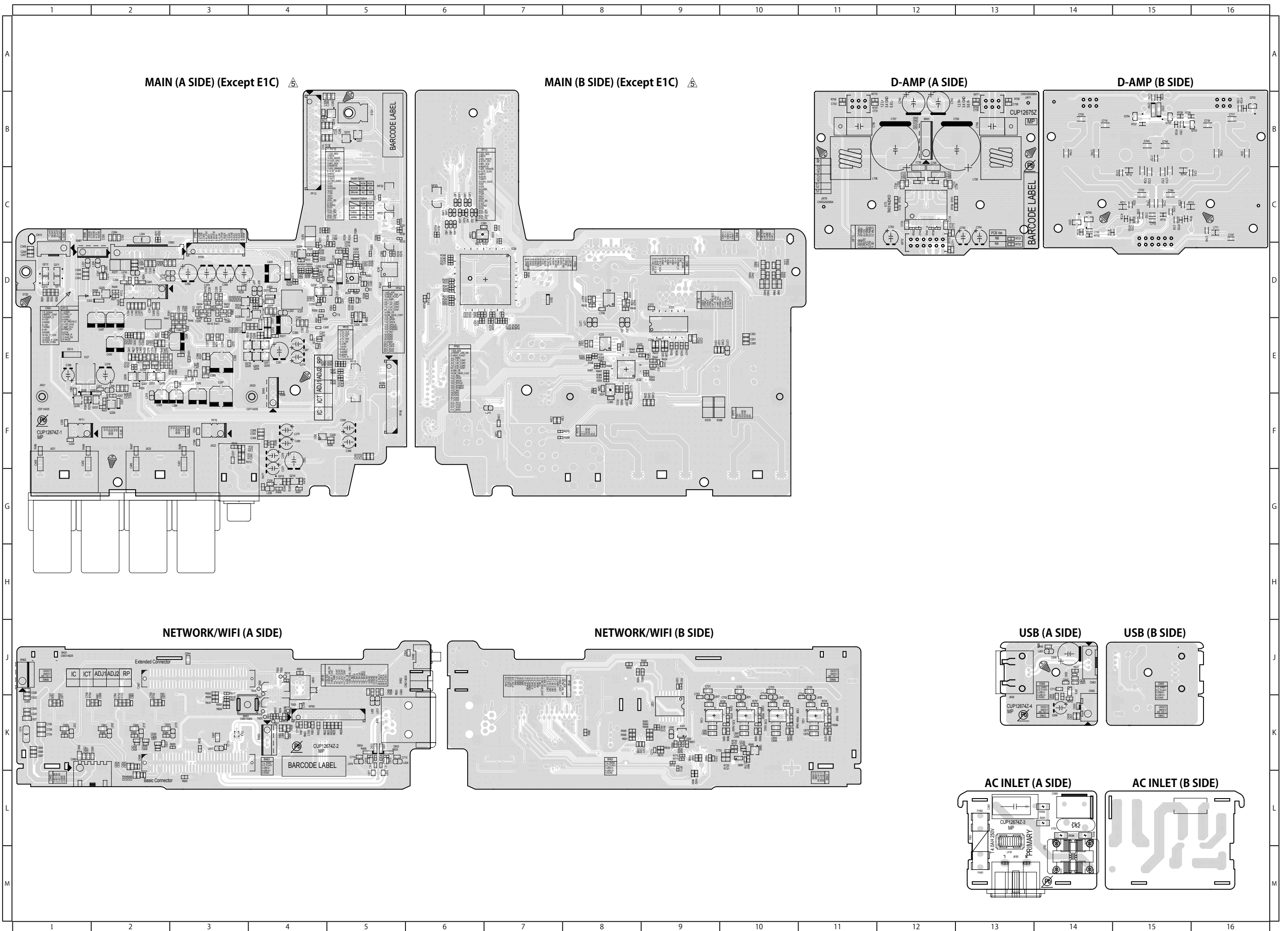


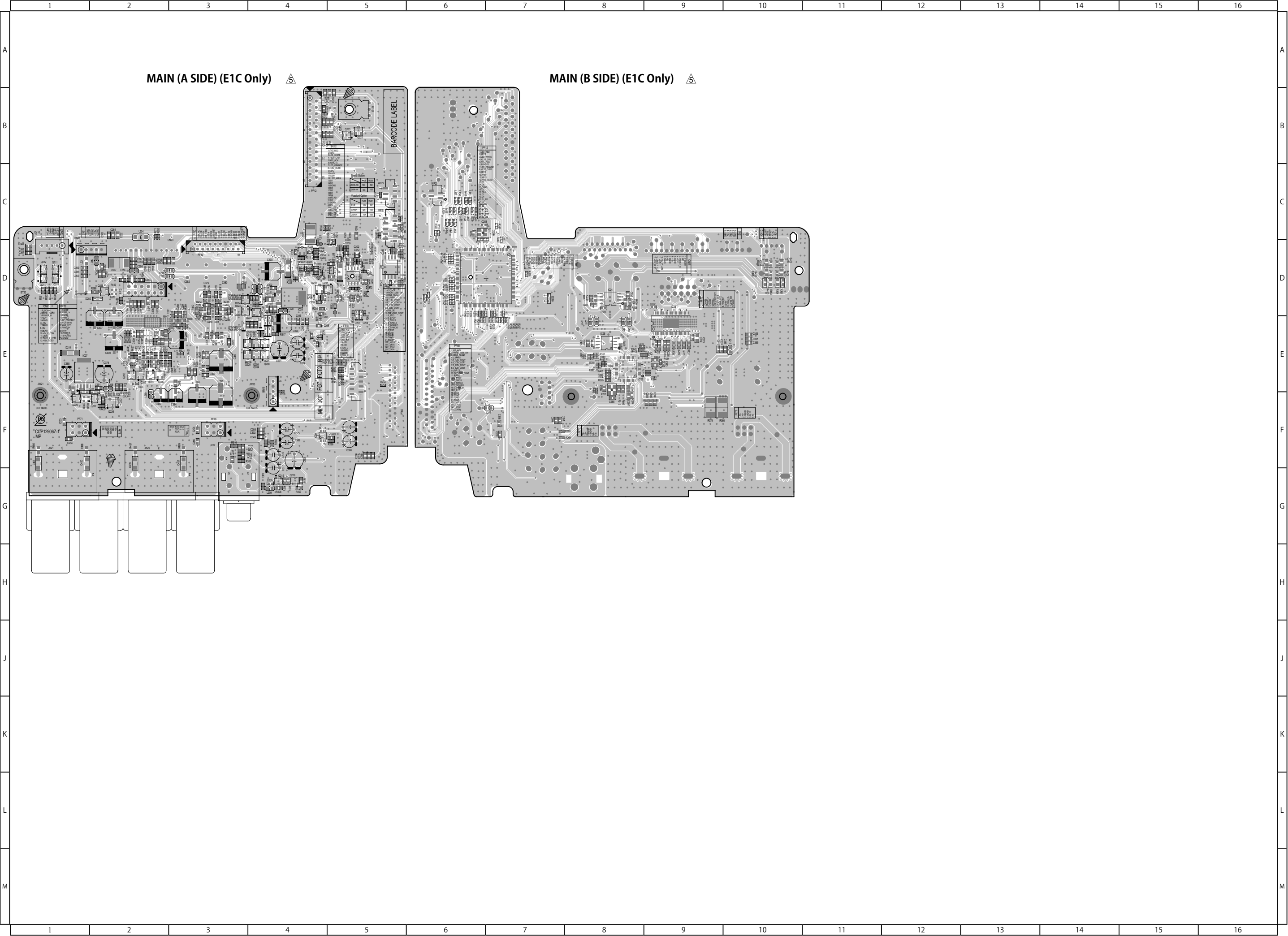
PRINTED WIRING BOARDS

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

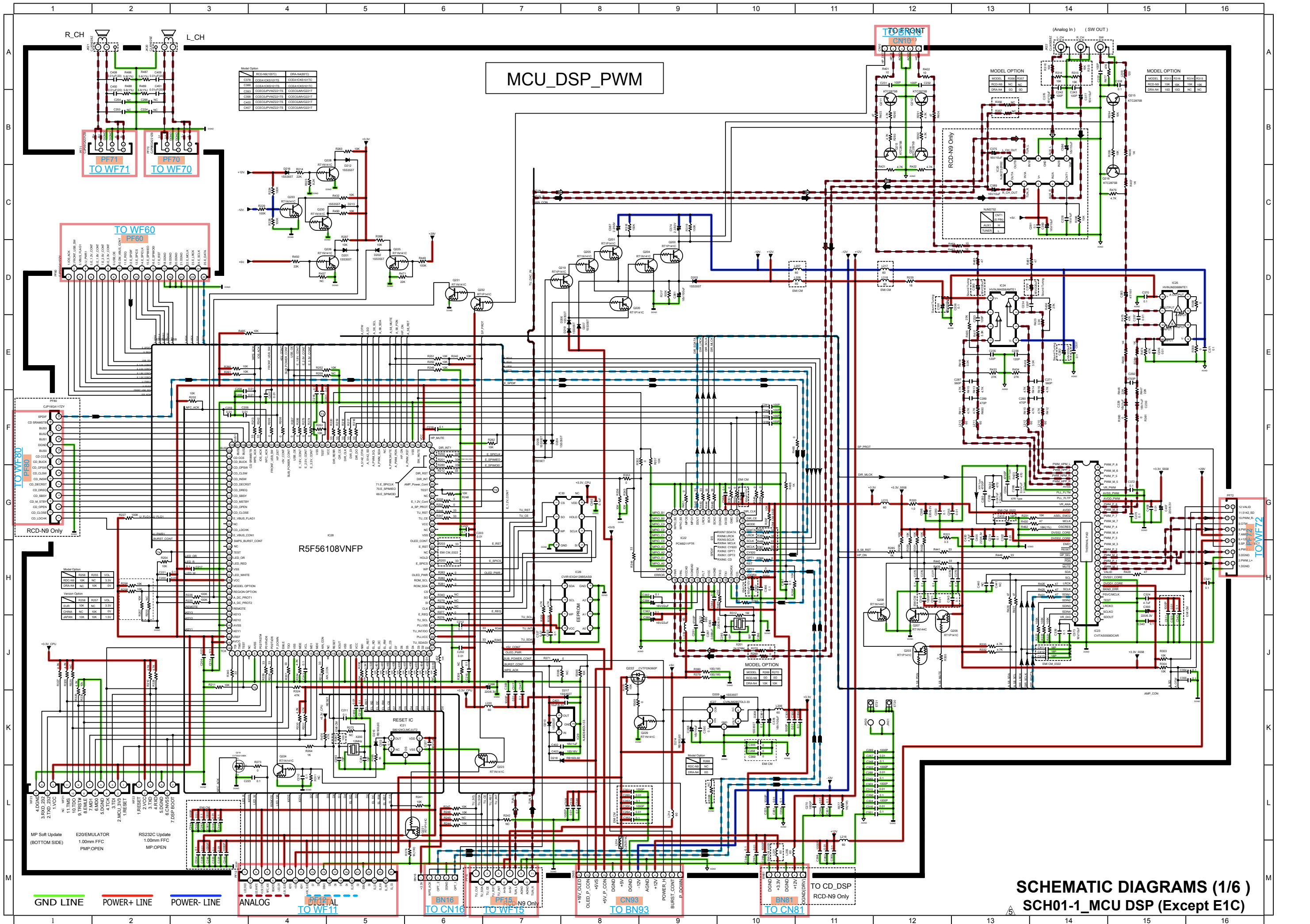












MCU\_DSP\_PWM

R5F56108VNFP

SCHEMATIC DIAGRAMS (1/6 )  
SCH01-1\_MCU DSP (Except E1C)

GND LINE POWER+ LINE POWER- LINE

ANALOG

TO WF71

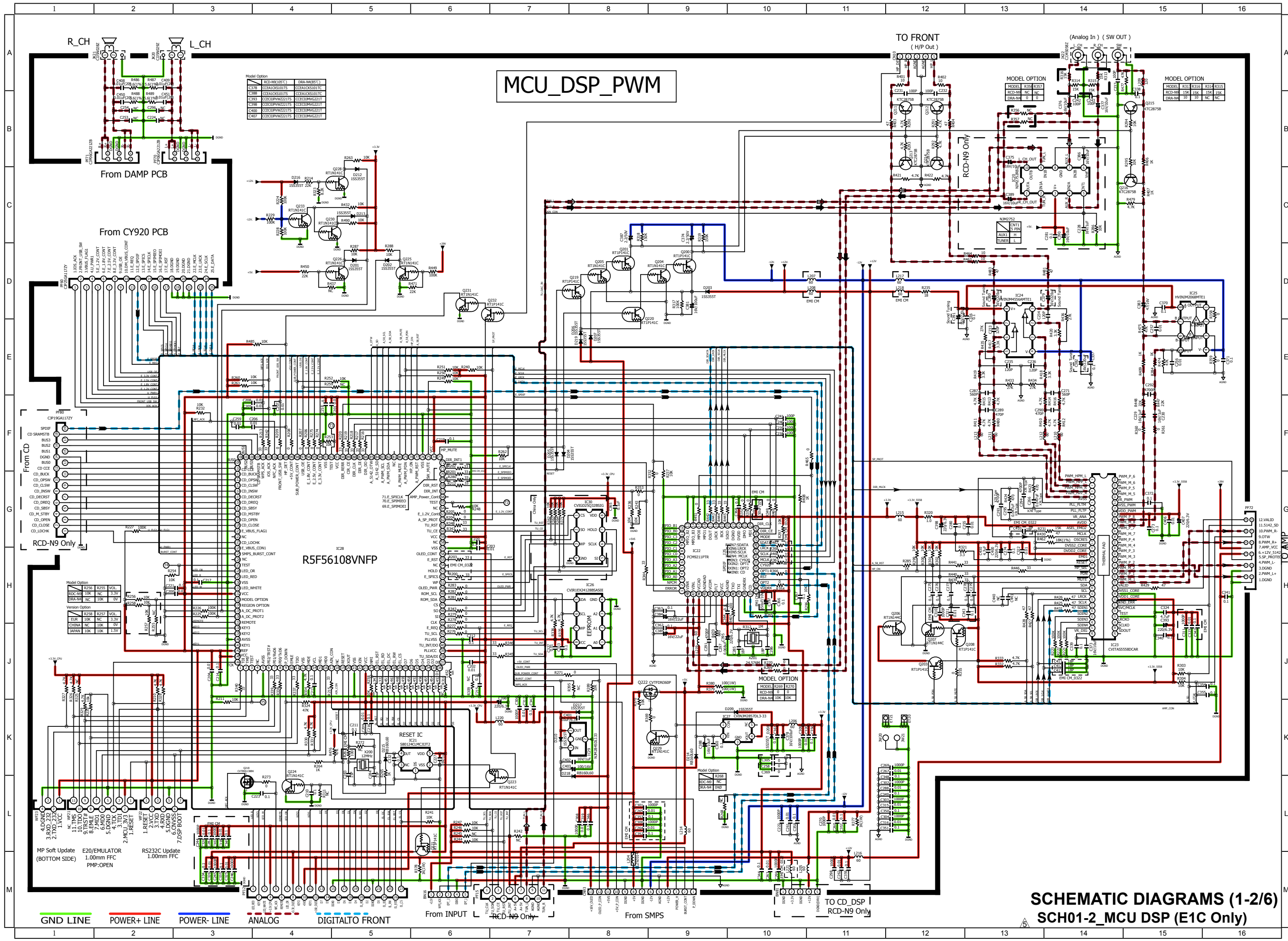
TO CN16

TO CN15

TO CN93

TO CN81

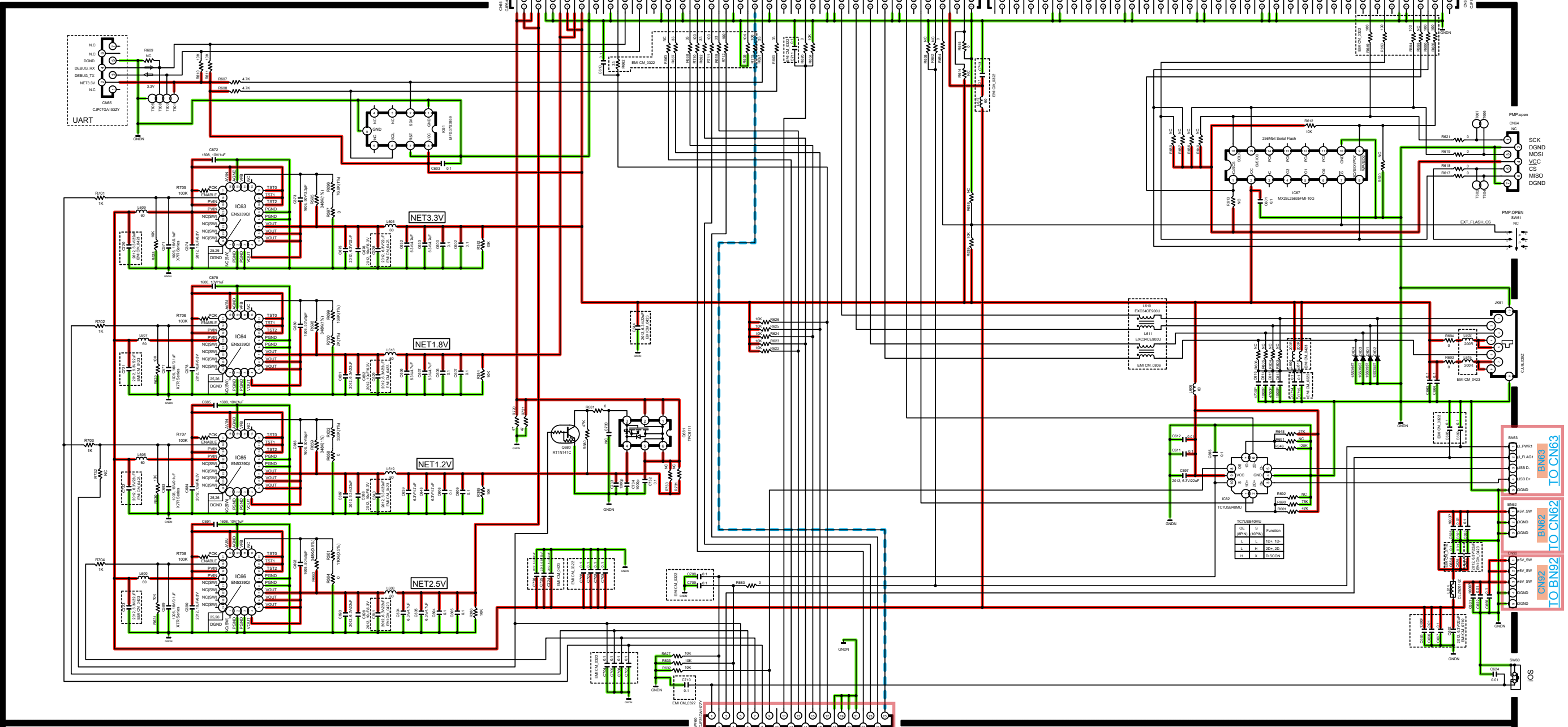
TO WF72



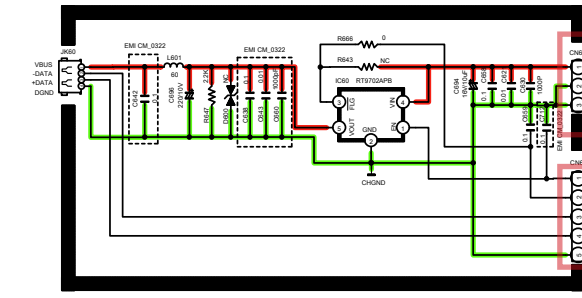
SCHEMATIC DIAGRAMS (1-2/6)  
SCH01-2 MCU DSP (E1C Only)



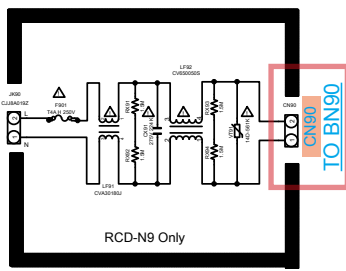
# NETWORK PCB



## FRONT USB PCB



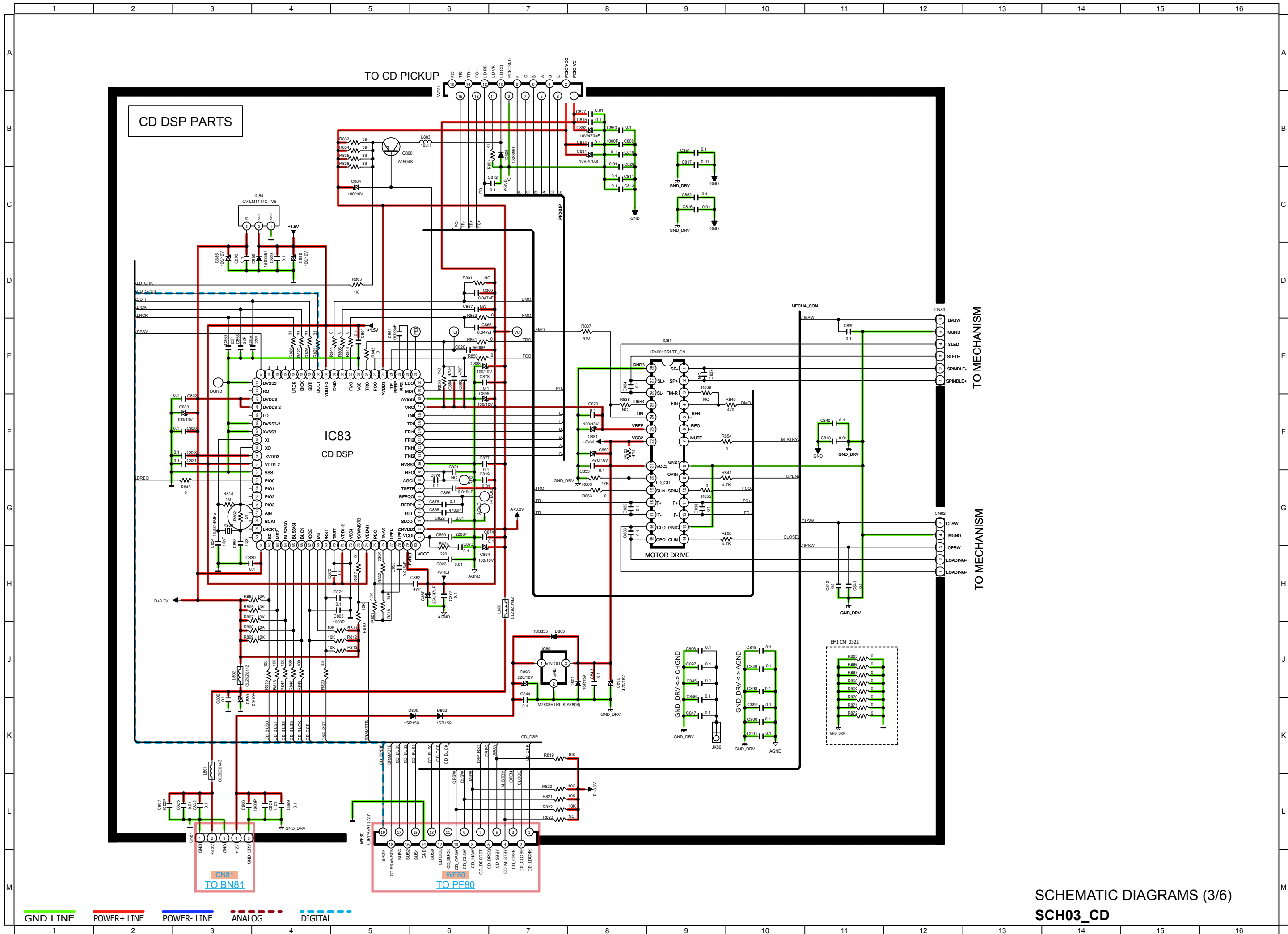
## AC INLET PCB



## CY920 MODULE

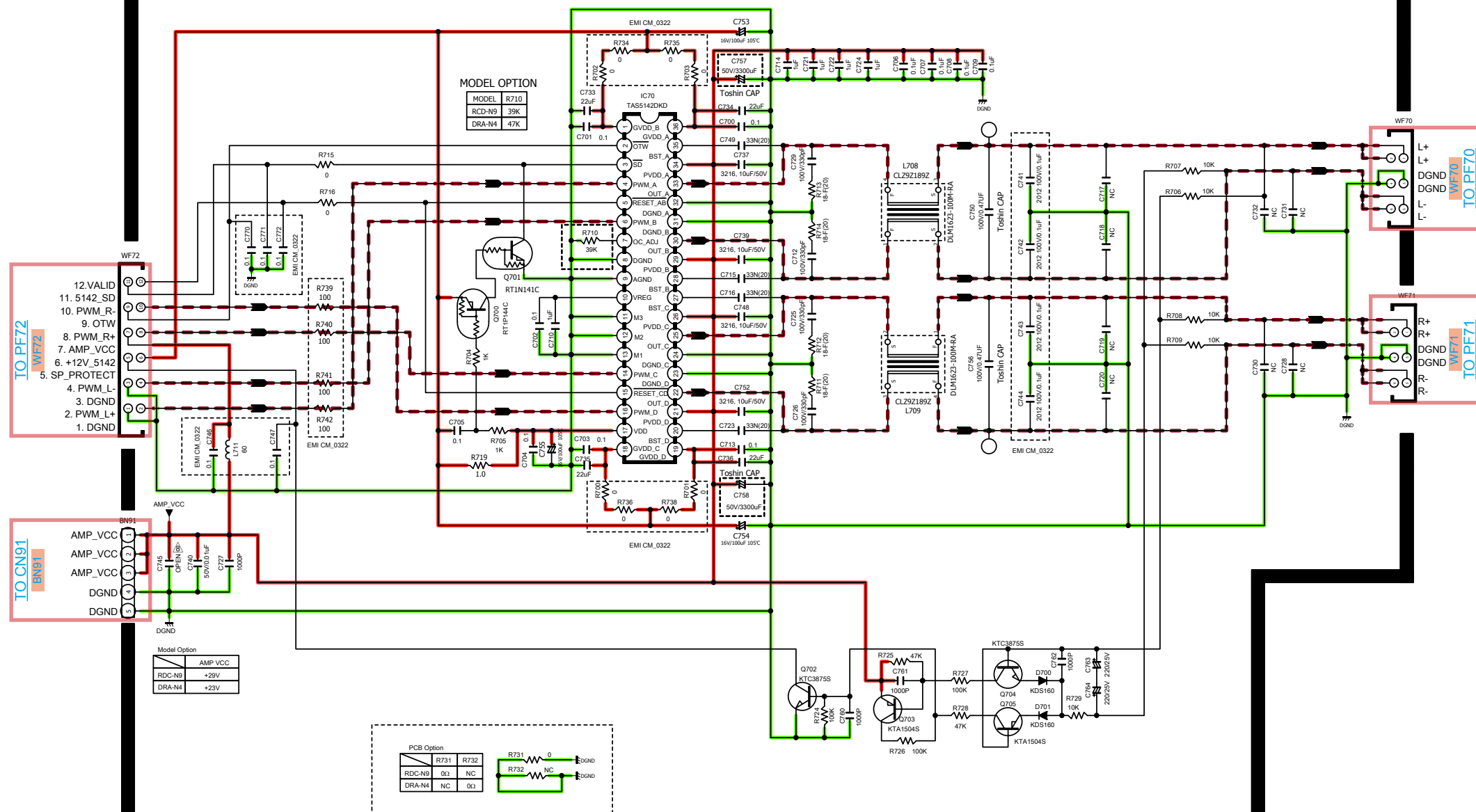
### BASIC CONNECTOR

### EXTENDED CONNECTOR

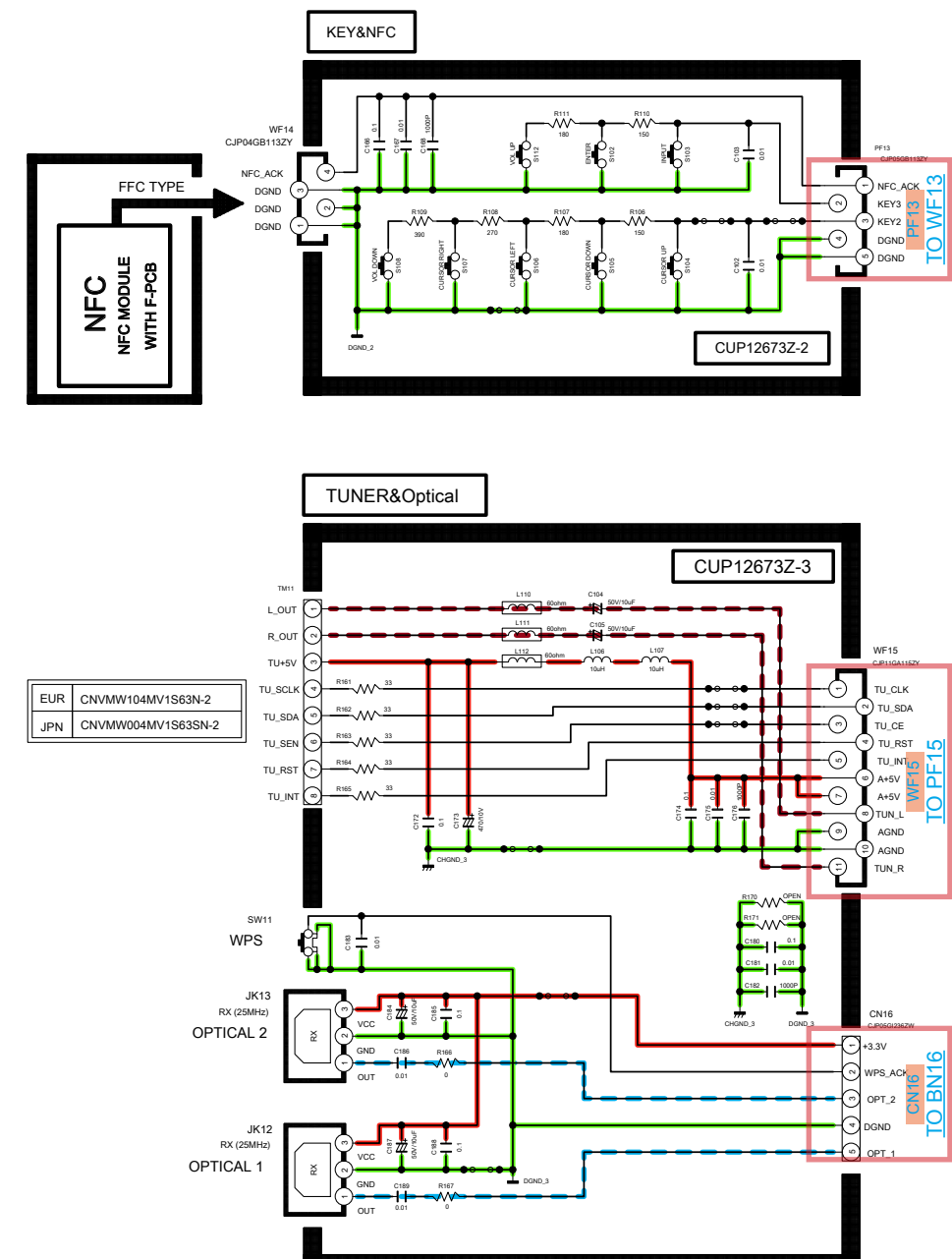
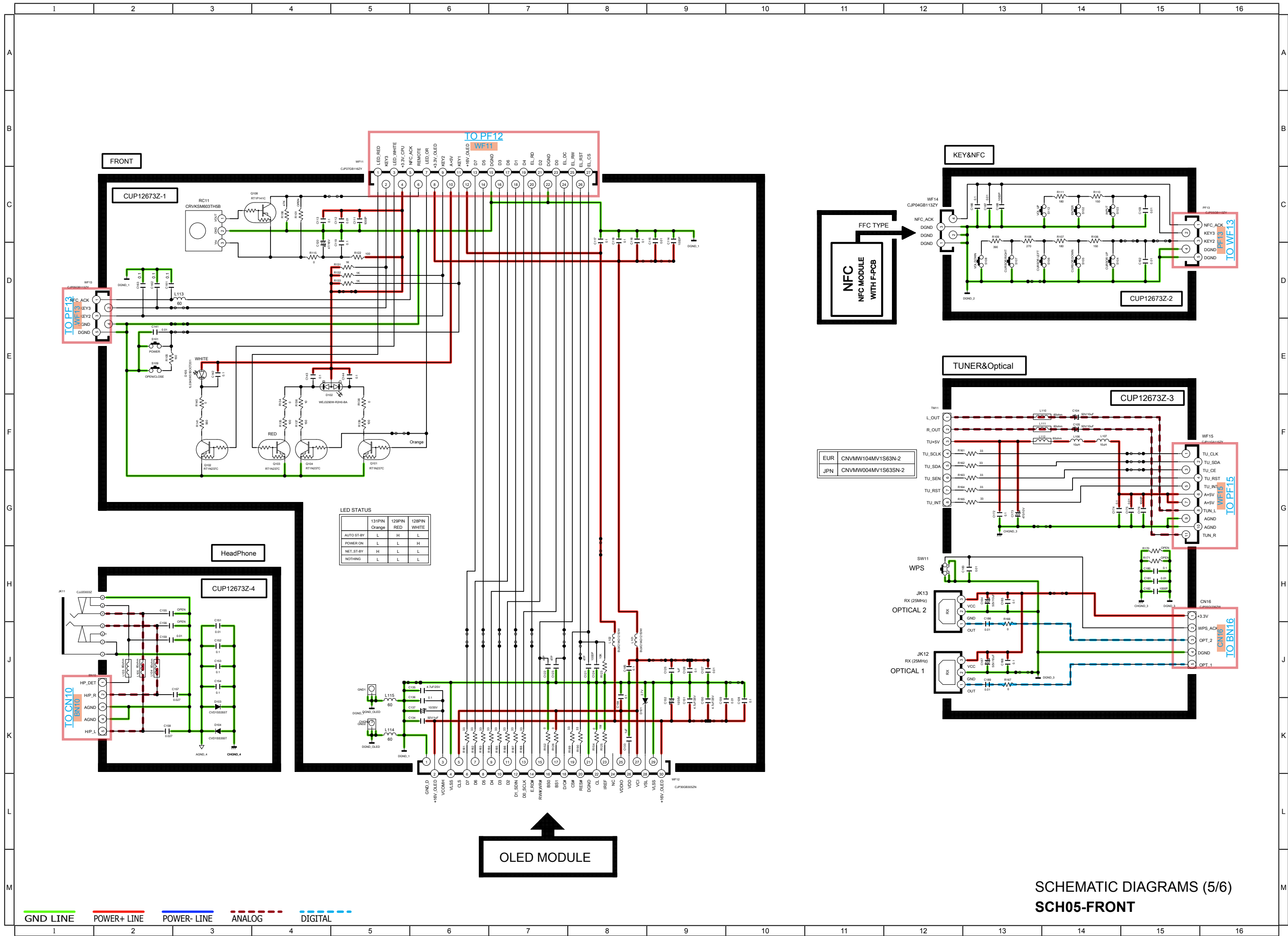


SCHEMATIC DIAGRAMS (3/6)  
SCH03\_CD

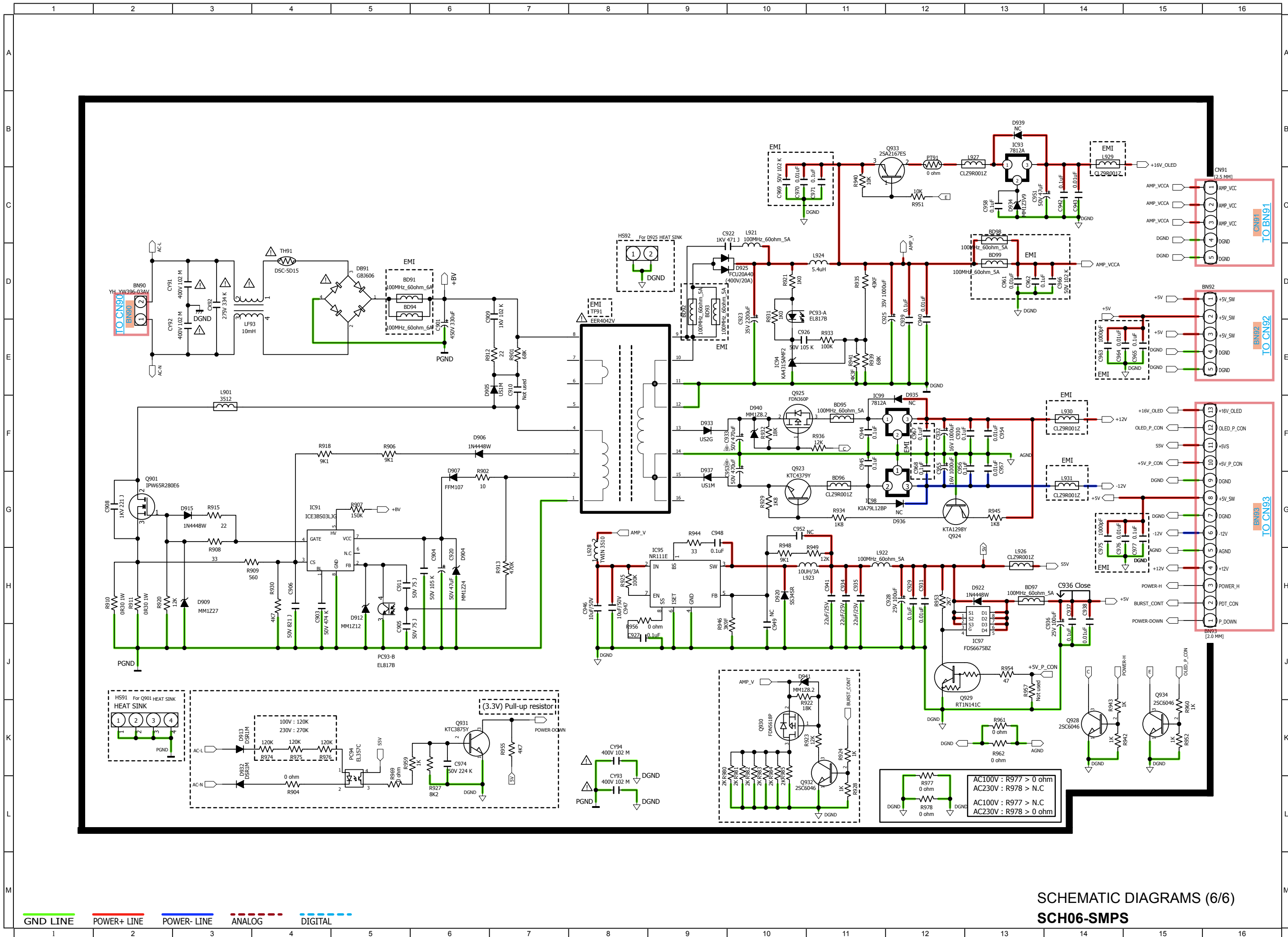
# D-AMP







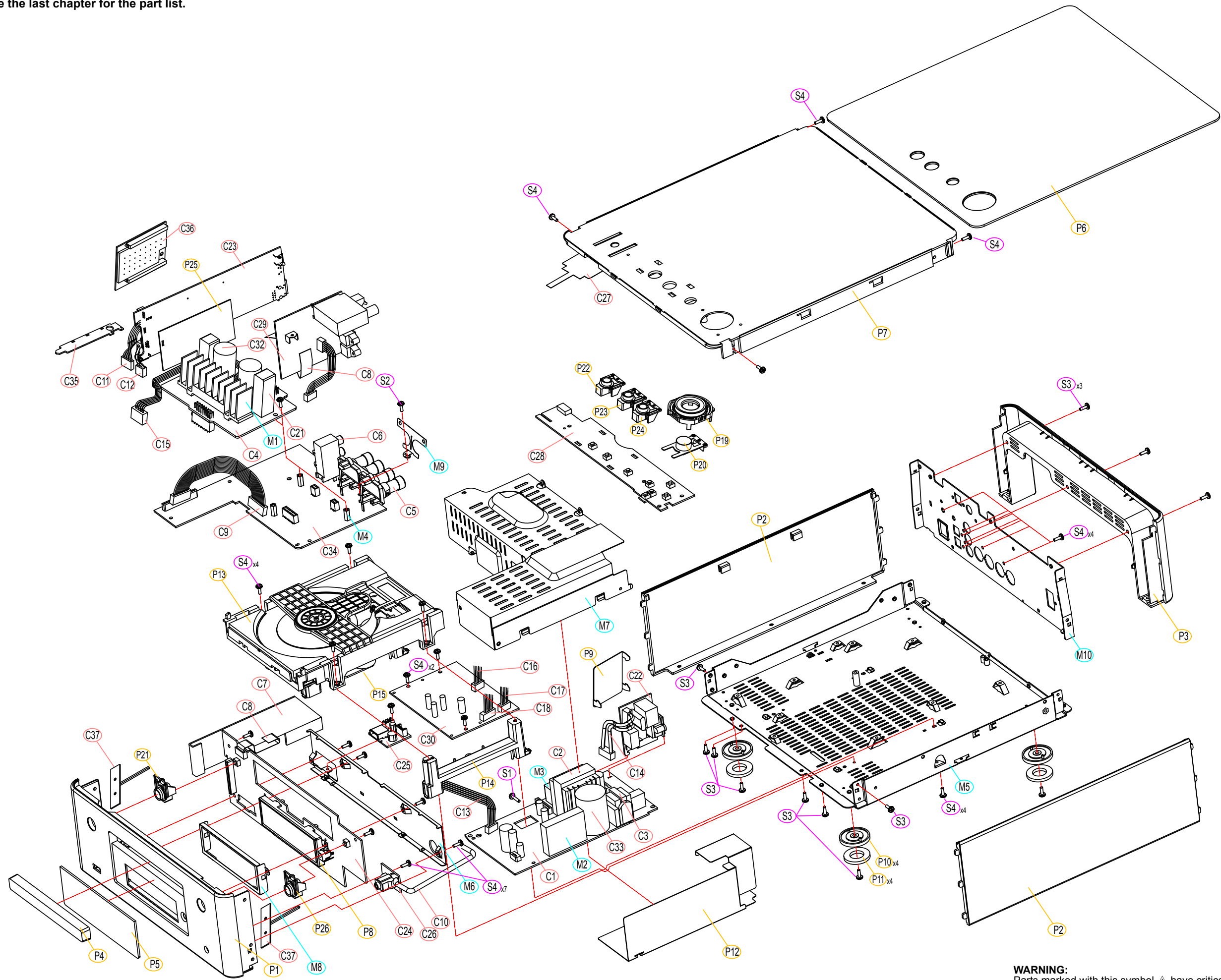
SCHEMATIC DIAGRAMS (5/6)  
SCH05-FRONT



SCHEMATIC DIAGRAMS (6/6)  
SCH06-SMPS

EXPLODED VIEW

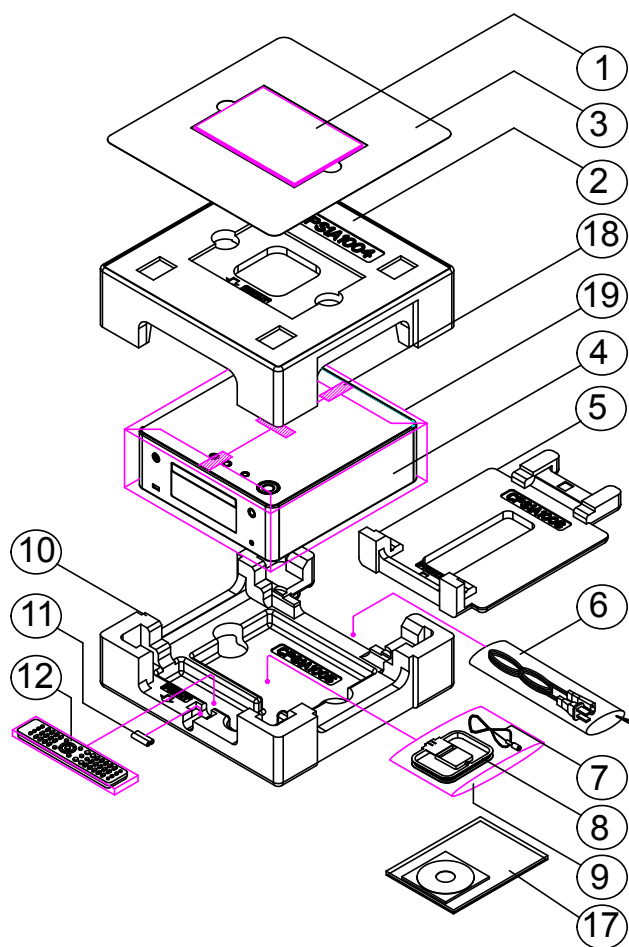
Please see the last chapter for the part list.



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

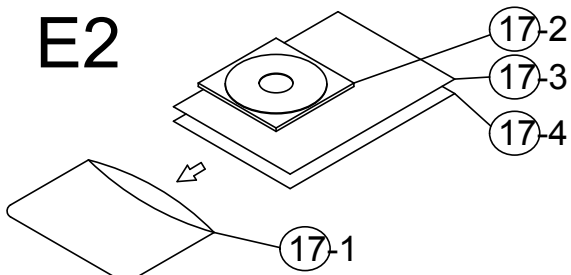
# PACKING VIEW

Please see the last chapter for the part list.

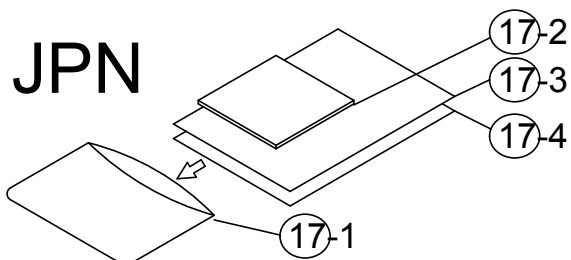


## 17 MANUAL ASSY

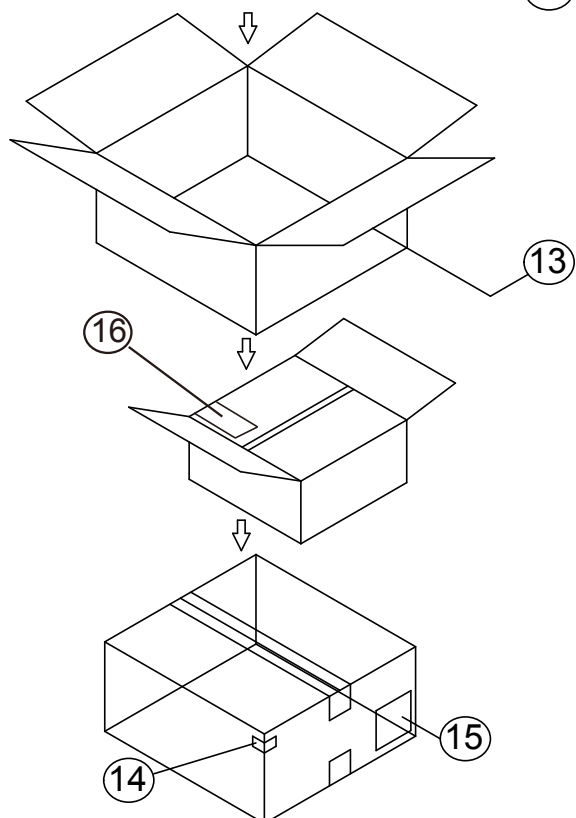
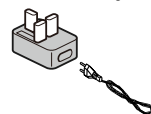
E2



JPN



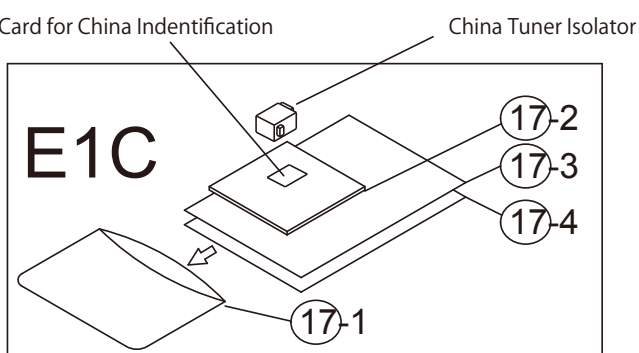
UK plug  
(UK Only)



Card for China Identification

China Tuner Isolator

E1C



Only major semiconductors are shown, general semiconductors etc. are omitted to list.  
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

**R5F56108VNFP (MAIN : IC28)**



**R5F56108VNFP (MAIN : IC28) Terminal Function**

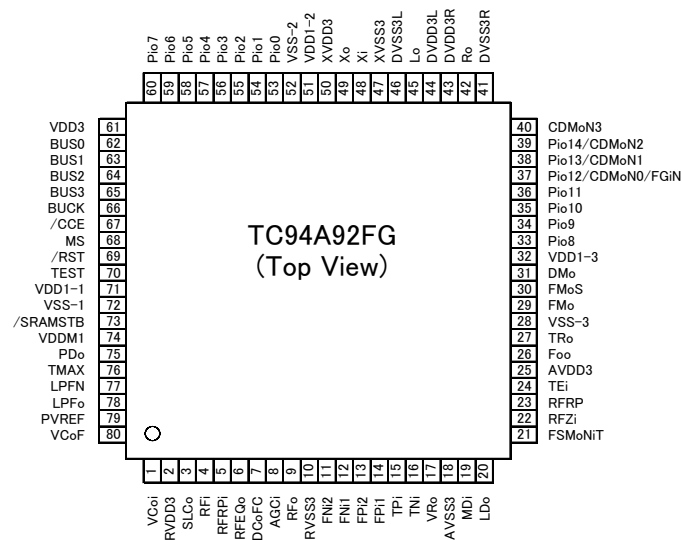

| Pin | Port Name     | PD/PU     | I/O | STANDBY MODE |            |              |           |              | Note                                            |
|-----|---------------|-----------|-----|--------------|------------|--------------|-----------|--------------|-------------------------------------------------|
|     |               |           |     | STBY         | TIMER STBY | Network STBY | OLED STBY | OLED+NW STBY |                                                 |
| 1   | TDI           | PU        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 2   | TMS           | PU        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 3   | TEST1         | PD        | I   | I            | I          | I            | I         | I            | Boot for Check PCB mode                         |
| 4   | OPEN          | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                            |
| 5   | AVSS          | -         | -   | -            | -          | -            | -         | -            | GND                                             |
| 6   | TRST#         | PD        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 7   | RXD MI232O    | PU        | I   | I            | I          | I            | I         | I            | UPDATE                                          |
| 8   | TXD MO232I    | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | UPDATE                                          |
| 9   | P.Down        | PU        | I   | I            | I          | I            | I         | I            | P.Down Detect (INT)                             |
| 10  | EMLE          | PD        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 11  | TDO           | PU_OPEN   | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Emulator Connection terminal                    |
| 12  | VSS           | -         | -   | -            | -          | -            | -         | -            | GND                                             |
| 13  | MDE           | PD        | I   | I            | I          | I            | I         | I            | Operation Mode Setting                          |
| 14  | VCL           | -         | I   | I            | I          | I            | I         | I            | Smoothing capacitor (0.1uF) connection terminal |
| 15  | MD1           | PU        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 16  | MD0           | PU        | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                    |
| 17  | AIN_CNT1      | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Analog Switch IC Control 1 (AUX1=H, TUNER=L)    |
| 18  | OPEN          | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                            |
| 19  | RESET         | PU        | I   | I            | I          | I            | I         | I            | Reset                                           |
| 20  | X-OUT         | -         | -   | -            | -          | -            | -         | -            | Clock Output (12MHz)                            |
| 21  | VSS           | -         | -   | -            | -          | -            | -         | -            | GND                                             |
| 22  | X-IN          | -         | -   | -            | -          | -            | -         | -            | Clock Input (12MHz)                             |
| 23  | VCC           | -         | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                       |
| 24  | NMI           | PU        | I   | I            | I          | I            | I         | I            | Basic Functions of Microcomputer                |
| 25  | EL RESET      | PD        | O   | O/L          | O/L        | O/L          | O/H       | O/H          | Reset for OLED (L: Reset)                       |
| 26  | EL E,RD       | -         | O   | O/L          | O/L        | O/L          | O         | O            | EL Readout                                      |
| 27  | EL D/C        | -         | O   | O/L          | O/L        | O/L          | O         | O            | Switching Data/Commando (H : Data, L : Command) |
| 28  | EL R/W,WR     | -         | O   | O/L          | O/L        | O/L          | O         | O            | EL Writing                                      |
| 29  | EL CS         | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | EL Chip Select (L : I/F communication)          |
| 30  | D7            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 31  | D6            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 32  | D5            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 33  | D4            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 34  | D3            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 35  | D2            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 36  | D1            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 37  | D0            | -         | O   | O/L          | O/L        | I            | O         | O            | Data Bus for OLED                               |
| 38  | TU_SDA        | PU        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | I2C Data for TUNER                              |
| 39  | PLL VCC       | -         | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                       |
| 40  | TU_INT        | -         | I   | I            | I          | I            | I         | I            | TUNER Interrupt                                 |
| 41  | PLL VSS       | -         | -   | -            | -          | -            | -         | -            | GND                                             |
| 42  | TU_SCL        | PU        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | I2C Clock for TUNER                             |
| 43  | E_REQ         | PD        | I   | I            | I          | I            | I         | I            | DM870 Interrupt                                 |
| 44  | GD25Q32_CLK   | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | GD25Q32-6P, CLK                                 |
| 45  | GD25Q32_SI    | PU        | I/O | I            | I          | I            | I         | I            | GD25Q32-5P, SI ( IO0 )                          |
| 46  | GD25Q32_SO    | PU        | I/O | I            | I          | I            | I         | I            | GD25Q32-2P, SO ( IO1 )                          |
| 47  | GD25Q32_CS    | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | GD25Q32-1P, CS                                  |
| 48  | EEPROM SDA    | PU        | I/O | I            | I          | I            | I         | I            | EEPROM R1EX24256A Control                       |
| 49  | EEPROM SCL    | PU        | O   | I            | I          | I            | I         | I            | EEPROM R1EX24256A Control                       |
| 50  | OLED_P_CONT   | PD        | O   | O/L          | O/L        | O/L          | O/H       | O/H          | Power Control for OLED +18V                     |
| 51  | GD25Q32_WP    | PU        | I/O | I            | I          | I            | I         | I            | GD25Q32-3P, WP# ( IO2 )                         |
| 52  | /E_SPICS      | PU(CX870) | O   | O/L          | O/L        | O            | O/L       | O            | SCI or CS Signal Output to the DM870            |
| 53  | GD25Q32_HOLD  | PU        | I/O | I            | I          | I            | I         | I            | GD25Q32-7P, HOLD# ( IO3 )                       |
| 54  | OPEN          | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                            |
| 55  | E_RESET       | PU(CX870) | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Reset for DM870                                 |
| 56  | OLED_3V3_CONT | PD        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OLED_3.3V_CONT                                  |
| 57  | VSS           | -         | -   | -            | -          | -            | -         | -            | GND                                             |
| 58  | OPEN          | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                            |
| 59  | VCC           | -         | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                       |
| 60  | TU_CE         | -         | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Tuner Control (CE)                              |
| 61  | TU_RST        | PU        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Reset Tuner                                     |



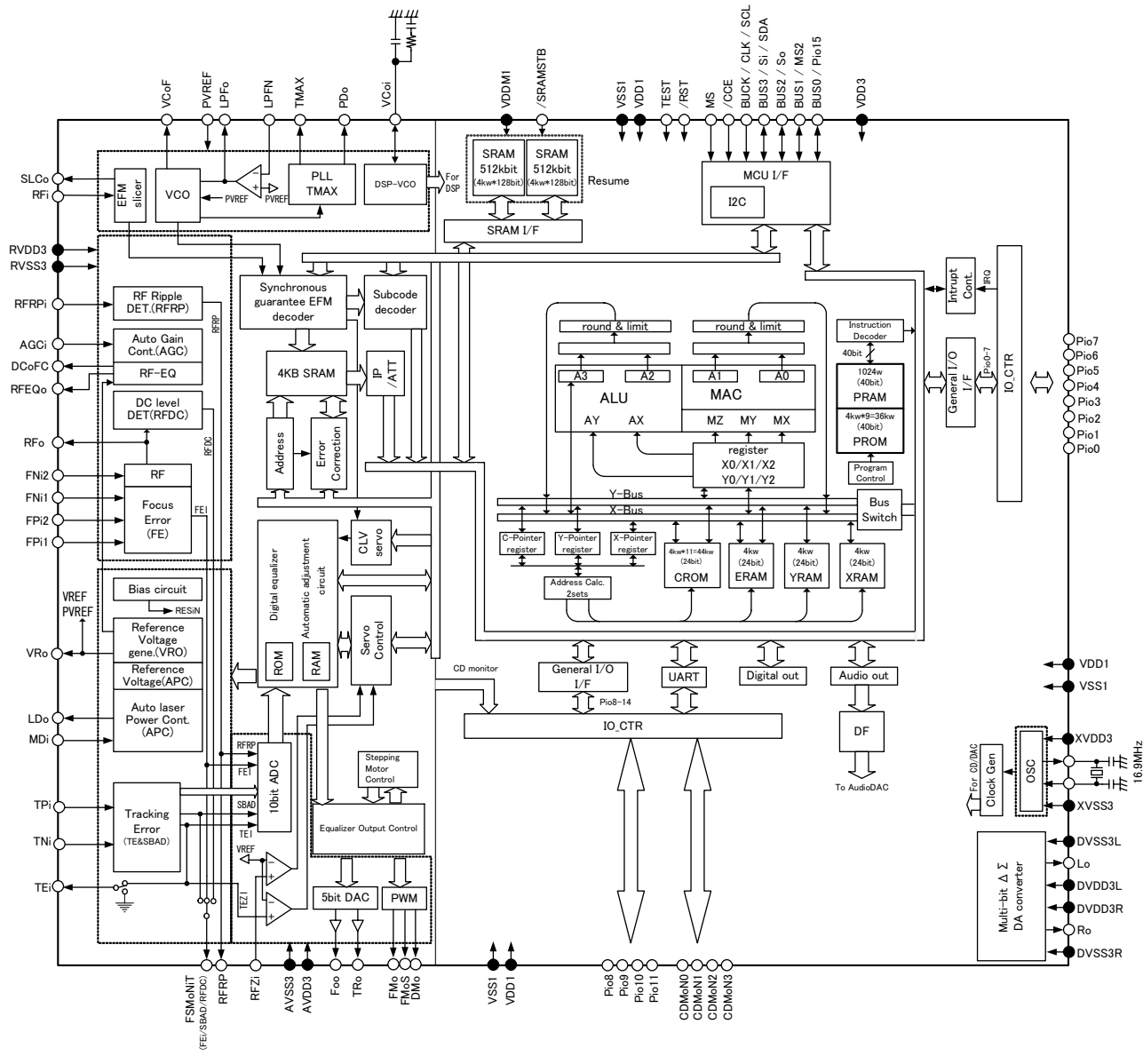
| Pin | Port Name       | PD/PU                  | I/O | STANDBY MODE |            |              |           |              | Note                                                          |
|-----|-----------------|------------------------|-----|--------------|------------|--------------|-----------|--------------|---------------------------------------------------------------|
|     |                 |                        |     | STBY         | TIMER STBY | Network STBY | OLED STBY | OLED+NW STBY |                                                               |
| 62  | SP_PROTECT      | PU                     | I   | I            | I          | I            | I         | I            | DC Power Detect (SPK OUT)                                     |
| 63  | +1V2_NET_P_CONT | PD                     | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Power Control for CY920_+1.2V                                 |
| 64  | OPEN            | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                                          |
| 65  | TEST2           | PD                     | I   | I            | I          | I            | I         | I            | Boot for Check PCB mode                                       |
| 66  | OPEN            | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                                          |
| 67  | DIR_INT         | PD(DIR_RERR)<br>Common | I   | I            | I          | I            | I         | I            | PCM9211(DIR) Control                                          |
| 68  | DIR_RST         | PD                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | PCM9211(DIR) Control                                          |
| 69  | E_SPIMOEI       | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | CY920 SPI                                                     |
| 70  | E_SPIMIEO       | -                      | I   | I            | I          | I            | I         | I            | CY920 SPI                                                     |
| 71  | E_SPICLK        | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | CY920 SPI                                                     |
| 72  | DIR_INT1        | PD                     | I   | I            | I          | I            | I         | I            | Analog Input Detection from PCM9211 (Not used)                |
| 73  | /H/P_MUTE       | PD                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | H/P MUTE                                                      |
| 74  | VCC             | -                      | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                                     |
| 75  | SW_MUTE         | PD                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | SW MUTE                                                       |
| 76  | VSS             | -                      | -   | -            | -          | -            | -         | -            | GND                                                           |
| 77  | /5558_RESET     | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | TAS 5558 System Reset input (11 pin)                          |
| 78  | /H/P_ON         | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | TAS 5558 Headphone in/out selector (12 pin)                   |
| 79  | /5558_PDN       | PU(DTA)                | O   | O/L          | O/L        | O/L          | O/L       | O/L          | TAS 5558 Power down (12 pin)                                  |
| 80  | /5558_MUTE      | PU(DTA)                | O   | O/L          | O/L        | O/L          | O/L       | O/L          | TAS 5558 Soft mute of outputs (14 pin)                        |
| 81  | OPEN            | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                                          |
| 82  | 5558_SDA        | PU                     | I/O | I            | I          | I            | I         | I            | TAS 5558 I2C SDA (24 pin)                                     |
| 83  | 5558_SCL        | PU                     | I/O | I            | I          | I            | I         | I            | TAS 5558 I2C SCL (25 pin)                                     |
| 84  | /5142_SD        | PU                     | I   | I            | I          | I            | I         | I            | TAS 5142 Shutdown Signal                                      |
| 85  | /5142_OTW       | PU                     | I   | I            | I          | I            | I         | I            | TAS 5142 Overtemperature Warning Signal                       |
| 86  | DIR_DO          | -                      | I   | I            | I          | I            | I         | I            | PCM9211(DIR) Control                                          |
| 87  | DIR_DI          | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | PCM9211(DIR) Control                                          |
| 88  | DIR_CL          | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | PCM9211(DIR) Control                                          |
| 89  | DIR_CE          | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | PCM9211(DIR) Control                                          |
| 90  | DIR_RERR        | PD                     | I   | I            | I          | I            | I         | I            | PCM9211(DIR) Control                                          |
| 91  | VCC             | -                      | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                                     |
| 92  | TEST3           | PD                     | I   | I            | I          | I            | I         | I            | Boot for Check PCB mode                                       |
| 93  | VSS             | -                      | -   | -            | -          | -            | -         | -            | GND                                                           |
| 94  | +3V3_NET_P_CONT | PD                     | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Power Control for CY920_+3.3V                                 |
| 95  | +2V5_NET_P_CONT | PD                     | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Power Control for CY920_+2.5V                                 |
| 96  | +1V8_NET_P_CONT | PD                     | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Power Control for CY920_+1.8V                                 |
| 97  | USB_OE          | -                      | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Mute Control When Switching USB Route (H : MUTE / L : Enable) |
| 98  | AUDIO_P_CONT    | PD                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Power Control (-/+3.3V_D1, -/+12V_A)                          |
| 99  | +5V_P_CONT      | PD                     | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Power Control for CY920_+5V                                   |
| 100 | HP/DET          | PU                     | I   | I            | I          | I            | I         | I            | H/P detect                                                    |
| 101 | FRONT_USB_SW    | PD                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Front USB Switch IC Control                                   |
| 102 | NFC_ACK         | PU                     | I   | I            | I          | I            | I         | I            | Bluetooth Pairing Mode                                        |
| 103 | iOS_ACK         | PU                     | I   | I            | I          | I            | I         | I            | WiFi Sharing Start                                            |
| 104 | WPS_ACK         | PU                     | I   | I            | I          | I            | I         | I            | WPS Start                                                     |
| 105 | SRAMSTB         | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | SRAMSTB Control for CD DSP                                    |
| 106 | BUS3            | PU                     | I/O | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP (TC94A92FG) Control                                    |
| 107 | BUS2            | PU                     | I/O | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP (TC94A92FG) Control                                    |
| 108 | BUS1            | PU                     | I/O | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP (TC94A92FG) Control                                    |
| 109 | BUS0            | PU                     | I/O | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP (TC94A92FG) Control                                    |
| 110 | CCE             | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP Control (Chip Enable)                                  |
| 111 | BUCK            | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | CD DSP Control (BUS CLK)                                      |
| 112 | OPSW            | PU                     | I   | I            | I          | I            | I         | I            | Open SW from CD Mecha                                         |
| 113 | CLSW            | PU                     | I   | I            | I          | I            | I         | I            | Close SW from CD Mecha                                        |
| 114 | LNSW            | PU                     | I   | I            | I          | I            | I         | I            | Limit SW from CD Mecha                                        |
| 115 | DECRST          | PU                     | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Reset for CD DSP (TC94A92FG)                                  |
| 116 | DREQ            | -                      | I   | I            | I          | I            | I         | I            | CD DSP (TC94A92FG) DREQ                                       |
| 117 | SBSY            | PU                     | I   | I            | I          | I            | I         | I            | CD Monitor (Default: SBSY) from CD DSP (TC94A92FG)            |

| Pin | Port Name       | PD/PU    | I/O | STANDBY MODE |            |              |           |              | Note                                           |
|-----|-----------------|----------|-----|--------------|------------|--------------|-----------|--------------|------------------------------------------------|
|     |                 |          |     | STBY         | TIMER STBY | Network STBY | OLED STBY | OLED+NW STBY |                                                |
| 118 | DRVMUTE         | PU_OPEN  | O   | O/L          | O/L        | O/L          | O/L       | O/L          | CD Driver Mute (H: Mute Off, L: Mute On)       |
| 119 | CD_OPEN         | -        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Open CD Tray                                   |
| 120 | CD_CLOSE        | -        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Close CD Tray                                  |
| 121 | VBUS_FLUG1      | PU       | I   | I            | I          | I            | I         | I            | Check VBUS Voltage 1 (Front USB), L : Error    |
| 122 | OPEN            | -        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | OPEN                                           |
| 123 | LD_CHK          | AD       | I   | I            | I          | I            | I         | I            | Check CD Laser Diode Current                   |
| 124 | VBUS_CTL1       | PD       | O   | O/L          | O/L        | O/L          | O/L       | O/L          | VBUS Control 1 (Front USB)                     |
| 125 | SMPS_BURST_CONT | -        | O   | O/L          | O/L        | O/L          | O/L       | O/L          | SMPS Burst mode Control                        |
| 126 | DM_VBUS_CONT    | -        | O   | O/L          | O/L        | O/H          | O/L       | O/H          | DM870 VBUS Control                             |
| 127 | TEST4           | PD       | I   | I            | I          | I            | I         | I            | Boot for Check PCB mode                        |
| 128 | LED_ORANGE      | PD       | O   | O/L          | O/H        | O/L          | O/L       | O/L          | Control ORANGE (Red + Green) LED               |
| 129 | LED_RED         | PD       | O   | O/L          | O/L        | O/H          | O/L       | O/H          | Control RED LED                                |
| 130 | VSS             | -        | -   | -            | -          | -            | -         | -            | GND                                            |
| 131 | LED_WT          | PD       | O   | O/L          | O/L        | O/L          | O/L       | O/L          | Control WHITE LED (POWER ON: H)                |
| 132 | VCC             | -        | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                      |
| 133 | MODEL           | AD       | I   | I            | I          | I            | I         | I            | Model Select (L (0V):N4, H (3.3V):N9)          |
| 134 | REGION          | AD       | I   | I            | I          | I            | I         | I            | Region Select (H (3.3V):E2, E3/MID (1.64V):JP) |
| 135 | DC_PROT1        | PU       | I   | I            | I          | I            | I         | I            | Power Down Detect (+29V LINE)                  |
| 136 | DC_PROT2        | PU       | I   | I            | I          | I            | I         | I            | Power Down Detect                              |
| 137 | REMOTE IN       | PU(open) | I   | I            | I          | I            | I         | I            | Remote Input                                   |
| 138 | KEY3            | PU       | I   | I            | I          | I            | I         | I            | Key Input 3 (A/D Port)                         |
| 139 | KEY2            | PU       | I   | I            | I          | I            | I         | I            | Key Input 2 (A/D Port)                         |
| 140 | VREFL           | -        | -   | -            | -          | -            | -         | -            | GND                                            |
| 141 | KEY1            | PU       | I   | I            | I          | I            | I         | I            | Key Input 1 (A/D Port)                         |
| 142 | VREFH           | -        | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                      |
| 143 | AVCC            | -        | -   | -            | -          | -            | -         | -            | +3.3V_CPU                                      |
| 144 | TCK             | PU       | I   | I            | I          | I            | I         | I            | Emulator Connection terminal                   |

TC94A92FG (CD : IC83)



TC94A92FG Block Diagram



## TC94A92FG Terminal Function

| Pin No. | Symbol  | I/O         | Description                                                                                        | Default | Remarks                                                   |
|---------|---------|-------------|----------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------|
| 1       | VCoI    | O<br>3AI/F  | DSP VCO - EFM and PLCK Phase difference signal output pin.<br>(DSP VCO control voltage input pin.) | O       | 3 state output                                            |
| 2       | RVDD3   | -           | CD-DSP-Power supply for 3.3V RF amplifier core and PLL circuit                                     | -       |                                                           |
| 3       | SLCo    | O<br>3AI/F  | EFM slice level output pin                                                                         | O       | Connect capacitor according with servo frequency band.    |
| 4       | RFi     | I<br>3AI/F  | RF signal input pin                                                                                | I       | Selectable Zin 20/10 kΩ                                   |
| 5       | RFRPi   | I<br>3AI/F  | RF ripple signal input pin                                                                         | I       |                                                           |
| 6       | RFEQo   | O<br>3AI/F  | RF equalizer circuit output pin.                                                                   | O       | Connect to RFRPi by 0.1uF, to RFi by 4700pF.              |
| 7       | DCoFC   | O<br>3AI/F  | RFEQo offset compensation LPF output                                                               | O       | Connect to Vro by more than 0.015uF                       |
| 8       | AGCi    | I<br>3AI/F  | RF signal AGC amplifier input pin                                                                  | I       |                                                           |
| 9       | RFo     | O<br>3AI/F  | RF signal generation amplifier output pin                                                          | O       |                                                           |
| 10      | RVSS3   | -           | Grounding pin for 3.3 RF amplifier core and PLL circuit                                            | -       |                                                           |
| 11      | FNI2    | I<br>3AI/F  | Main beam signal input pin.<br>To be connected to PIN diode C.                                     | I       |                                                           |
| 12      | FNI1    | I<br>3AI/F  | Main beam signal input pin.<br>To be connected to PIN diode A.                                     | I       |                                                           |
| 13      | FPI2    | I<br>3AI/F  | Main beam signal input pin.<br>To be connected to PIN diode D.                                     | I       |                                                           |
| 14      | FPI1    | I<br>3AI/F  | Main beam signal input pin.<br>To be connected to PIN diode B.                                     | I       |                                                           |
| 15      | TPi     | I<br>3AI/F  | Sub beam signal input pin.<br>To be connected to PIN diode F.                                      | I       |                                                           |
| 16      | TNi     | I<br>3AI/F  | Sub beam signal input pin.<br>To be connected to PIN diode E.                                      | I       |                                                           |
| 17      | VRo     | O<br>3AI/F  | 1.65 V reference voltage output pin.                                                               | O       | Connected to PVREF,<br>And connect to GNG by 0.1uF+100uF. |
| 18      | AVSS3   | -           | Grounding pin for 3.3V CD analog circuits.                                                         | -       |                                                           |
| 19      | MDi     | I<br>3AI/F  | Monitor photodiode amplifier input pin.                                                            | I       | Reference Voltage=178mVtyp.                               |
| 20      | LDo     | O<br>3AI/F  | Laser diode amplifier output pin                                                                   | O       |                                                           |
| 21      | FSMoNiT | O<br>3AI/F  | Focus Error signal / Sub beam add signal output pin(monitor pin/GND)                               | O       |                                                           |
| 22      | RFZi    | I<br>3AI/F  | RF ripple zero-cross signal Input pin                                                              | I       |                                                           |
| 23      | RFRP    | O<br>3AI/F  | RF ripple signal output pin.                                                                       | O       |                                                           |
| 24      | TEi     | O<br>3AI/F  | Tracking error signal output pin.                                                                  | O       | Built-in series R=500Ω.<br>Connect to VRo by capacitor.   |
| 25      | AVDD3   | -           | Power supply pin for 3.3 V CD analog circuits.                                                     | -       |                                                           |
| 26      | FOo     | O<br>3AI/F  | Focus servo equalizer output pin.                                                                  | O       | Built-in series R=3.3 kΩ                                  |
| 27      | TRo     | O<br>3AI/F  | Tracking servo equalizer output pin.                                                               | O       | Built-in output R=3.3 kΩ                                  |
| 28      | VSS-3   | -           | Grounding pin for 1.5V Decoder-DSP CD circuit                                                      | -       |                                                           |
| 29      | FMo     | O<br>3AI/F  | Feed servo equalizer output pin.                                                                   | O       | Built-in output R=3.3 kΩ                                  |
| 30      | FMoS    | O<br>3AI/F  | Feed servo equalizer output pin.<br>(Stepper motor application)                                    | O       | Built-in output R=3.3 kΩ                                  |
| 31      | DMo     | O<br>3AI/F  | Disc servo equalizer output pin                                                                    | O       | Built-in output R=3.3 kΩ                                  |
| 32      | VDD1-3  | I/O<br>3I/F | Power supply pin for 1.5V Decoder-DSP /CD circuit                                                  | -       |                                                           |

| Pin No. | Symbol                    | I/O         | Description                                                             | Default | Remarks                                                                                  |
|---------|---------------------------|-------------|-------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|
| 33      | Pio8                      | I/O<br>3I/F | Port 8(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 34      | Pio9                      | I/O<br>3I/F | Port 9(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 35      | Pio10                     | I/O<br>3I/F | Port 10(General Input/Output Port )                                     | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 36      | Pio11                     | I/O<br>3I/F | Port 11(General Input/Output Port )                                     | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 37      | Pio12/<br>CDMoN0/<br>FGiN | I/O<br>3I/F | Port 12(General Input/Output Port )<br>/ CD Monitor 0 / FG signal input | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 38      | Pio13/<br>CDMoN1          | I/O<br>3I/F | Port 13(General Input/Output Port )<br>/ CD Monitor1                    | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 39      | Pio14/<br>CDMoN2          | I/O<br>3I/F | Port 14(General Input/Output Port )<br>/ CD Monitor 2                   | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 40      | CDMoN3                    | I/O<br>3I/F | CD Monitor3 (Default output : SBSY)                                     | O       | CMOS Port<br>Refer to [1.2 Pin Assinment Table]                                          |
| 41      | DVSS3R                    | -           | Grounding pin for 3.3V Muiiti-Bit DAC circuit                           | -       |                                                                                          |
| 42      | Ro                        | O<br>3AI/F  | R channel audio output pin of Audio DAC.                                | O       |                                                                                          |
| 43      | DVDD3R                    | -           | Power supply pin for 3.3V Audio DAC circuit.                            | -       |                                                                                          |
| 44      | DVDD3L                    | -           | Power supply pin for 3.3V Audio DAC circuit.                            | -       |                                                                                          |
| 45      | Lo                        | O<br>3AI/F  | L channel audio output pin of Audio DAC                                 | O       |                                                                                          |
| 46      | DVSS3L                    | -           | Grounding pin for 3.3V Muiiti-Bit DAC Circuit                           | -       |                                                                                          |
| 47      | XVSS3                     | -           | Grounding pin for 3.3V clock oscillator circuit                         | -       |                                                                                          |
| 48      | Xi                        | I<br>3AI/F  | System clock Input pin                                                  | I       | Xtal ossillation circuit.<br>Connect feedback resistor 1<br>M $\Omega$ between Xo and Xi |
| 49      | Xo                        | O<br>3AI/F  | System clock Output pin                                                 | O       |                                                                                          |
| 50      | XVDD3                     | -           | Power Supply pin for 3.3V clock oscillator circuit                      | -       |                                                                                          |
| 51      | VDD1-2                    | -           | Power Supply pin for 1.5V Digital circuit                               | -       |                                                                                          |
| 52      | VSS-2                     | -           | Grounding pin for 1.5V digital circuit                                  | -       |                                                                                          |
| 53      | Pio0                      | I/O<br>3I/F | Port 0(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 54      | Pio1                      | I/O<br>3I/F | Port 1(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 55      | Pio2                      | I/O<br>3I/F | Port 2(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 56      | Pio3                      | I/O<br>3I/F | Port 3(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 57      | Pio4                      | I/O<br>3I/F | Port 4(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 58      | Pio5                      | I/O<br>3I/F | Port 5(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 59      | Pio6                      | I/O<br>3I/F | Port 6(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 60      | Pio7                      | I/O<br>3I/F | Port 7(General Input/Output Port )                                      | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |
| 61      | VDD3                      | -           | Power Supply pin for 3.3V Digital circuit                               | -       |                                                                                          |
| 62      | BUS0                      | I/O<br>3I/F | Microprocessor I/F data input/output pin 0                              | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table]                         |

| Pin No. | Symbol   | I/O         | Description                                                                    | Default | Remarks                                                          |
|---------|----------|-------------|--------------------------------------------------------------------------------|---------|------------------------------------------------------------------|
| 63      | BUS1     | I/O<br>3I/F | Microprocessor I/F data input/output pin 1                                     | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table] |
| 64      | BUS2     | I/O<br>3I/F | Microprocessor I/F data input/output pin 2                                     | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table] |
| 65      | BUS3     | I/O<br>3I/F | Microprocessor I/F data input/output pin 3                                     | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table] |
| 66      | BUCK     | I<br>3I/F   | Microprocessor I/F BUS clock Input pin                                         | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table] |
| 67      | /CCE     | I<br>3I/F   | Microprocessor I/F chip enable input pin                                       | I       | CMOS Port<br>Schmitt input<br>Refer to [1.2 Pin Assinment Table] |
| 68      | MS       | I<br>3I/F   | Microprocessor I/F mode selection pin.<br>"H" : Parallel I/F, "L" : Serial I/F | I       | Refer to [1.2 Pin Assinment Table]                               |
| 69      | /RST     | I<br>3I/F   | Reset Input pin                                                                | I       | Schmitt input                                                    |
| 70      | Test     | I<br>3I/F   | Test pin (" L" fixed)                                                          | I       | Connect to GND for normal operation                              |
| 71      | VDD1-1   | -           | Power Supply pin for 1.5V Digital circuit                                      | -       |                                                                  |
| 72      | VSS-1    | -           | Grounding pin for 1.5V Digital circuit                                         | -       |                                                                  |
| 73      | /SRAMSTB | I<br>3I/F   | 1Mbit SRAM stand by pin(/SRAMSTB="L")                                          | I       |                                                                  |
| 74      | VDDM1    | -           | Power Supply for 1.5V 1Mbit SRAM circuit                                       | -       |                                                                  |
| 75      | PDo      | O<br>3AI/F  | EFM and PLCK Phase difference signal output pin.                               | O       | 4-state output ( RVDD3, RVSS3,PVREF, Hiz)                        |
| 76      | TMAX     | O<br>3AI/F  | TMAX detection result output pin                                               | O       | 3-state output ( RVDD3, RVSS3, Hiz)                              |
| 77      | LPFN     | I<br>3AI/F  | PLL circuit LPF amplifier inversion input pin                                  | I       |                                                                  |
| 78      | LPFo     | O<br>3AI/F  | PLL circuit LPF amplifier Output pin                                           | O       |                                                                  |
| 79      | PVREF    | -           | PLL circuit 1.65 V reference voltage pin.                                      | -       | Connected to VRO. Connect to GND by 0.1uF and 100uF.             |
| 80      | VCoF     | O<br>3AI/F  | VCO filter pin                                                                 | O       | Connect to GND by 0.01uF                                         |

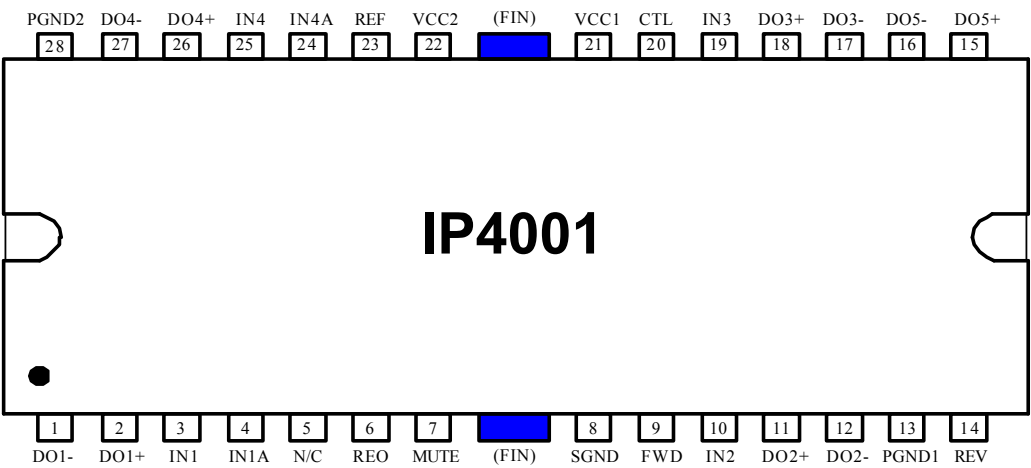
3A I/F : 3 V analog circuit input/output pin.

1.5 I/F : 1.5Vdigital input/output pin.

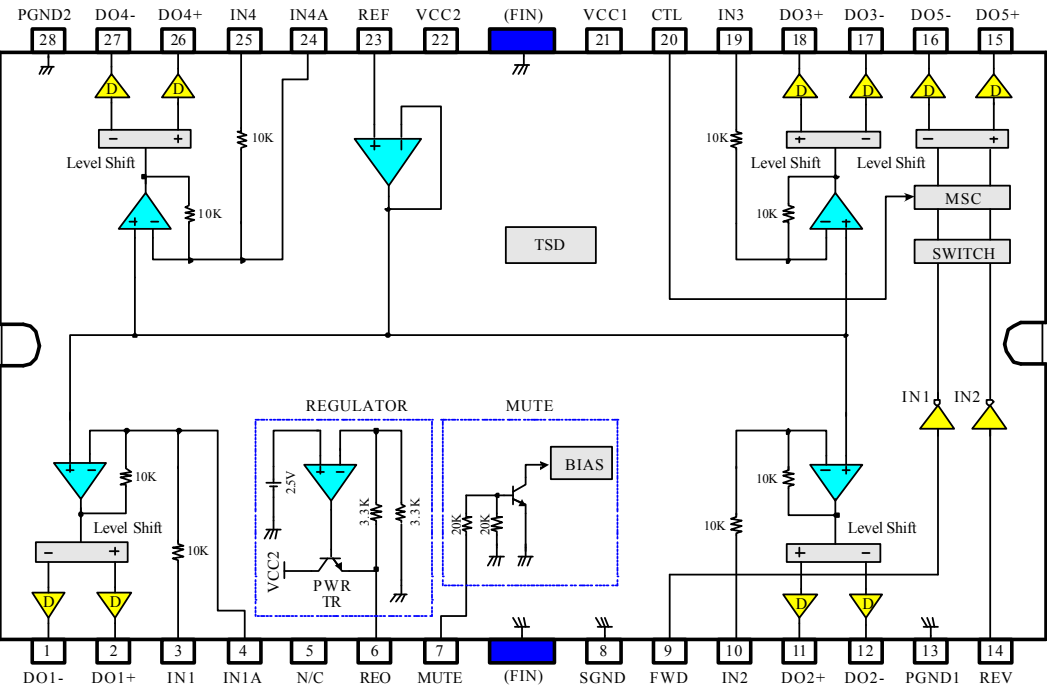
3 I/F : 3 V digital input/output pin.



IP4001CR (CD : IC81)



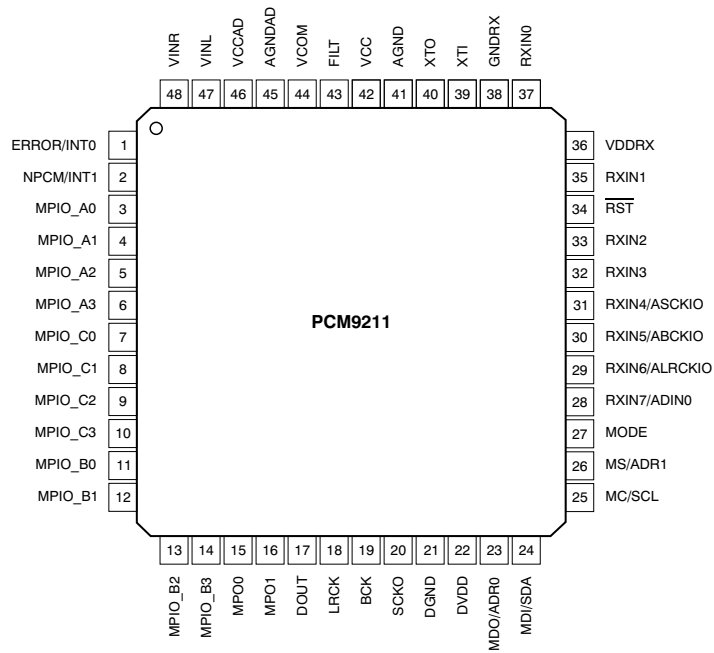
IP4001CR Block Diagram



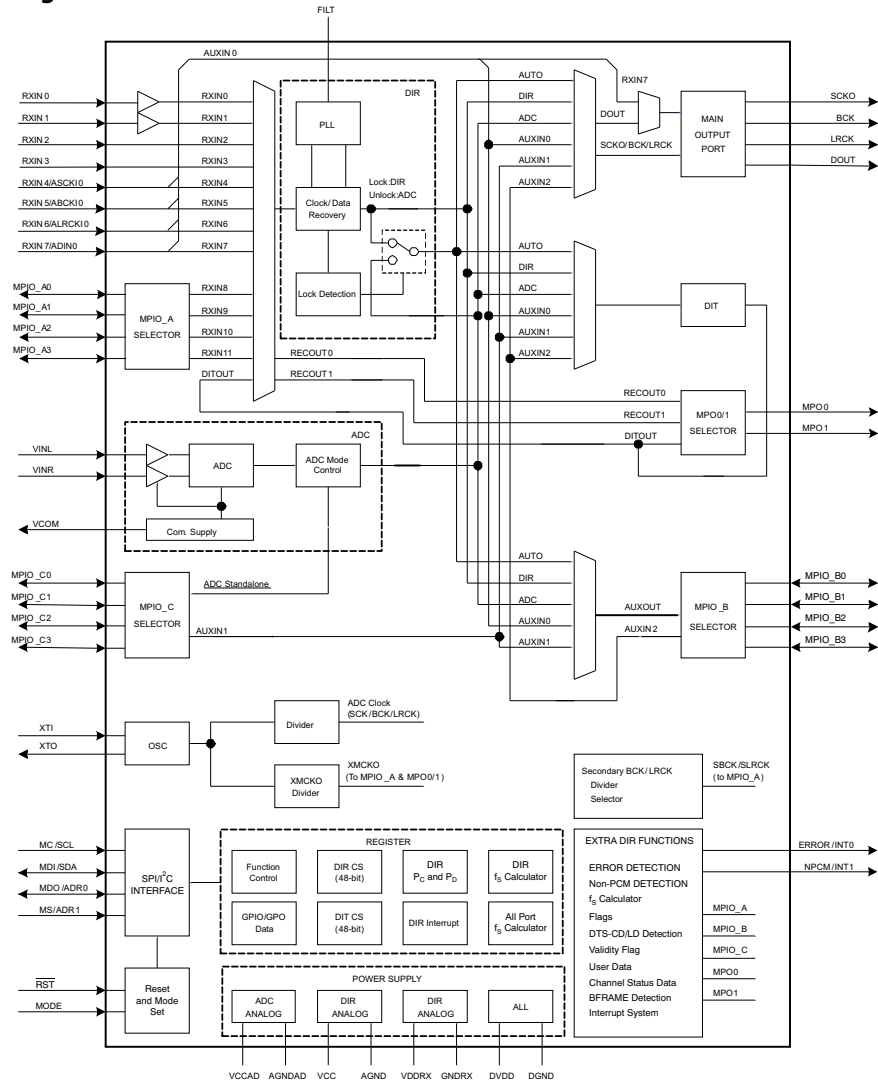
IP4001CR Pin Discriptions

| NO | SYMBOL | I/O | DESCRIPTION      | NO | SYMBOL | I/O | DESCRIPTION                           |
|----|--------|-----|------------------|----|--------|-----|---------------------------------------|
| 1  | DO1-   | O   | CH1 OUTPUT (-)   | 15 | DO5+   | O   | CH5 OUTPUT (+)                        |
| 2  | DO1+   | O   | CH1 OUTPUT (+)   | 16 | DO5-   | O   | CH5 OUTPUT (-)                        |
| 3  | IN1    | I   | CH1 INPUT 1      | 17 | DO3-   | O   | CH3 OUTPUT (-)                        |
| 4  | IN1A   | I   | CH1 INPUT 2      | 18 | DO3+   | O   | CH3 OUTPUT (+)                        |
| 5  | N / C  | -   | NO-CONNECTION    | 19 | IN3    | I   | CH3 INPUT                             |
| 6  | REO    | O   | REGULATOR OUTPUT | 20 | CTL    | I   | CH5 MOTOR SPEED CONTROL               |
| 7  | MUTE   | I   | MUTE INPUT       | 21 | VCC1   | I   | SUPPLY VOLTAGE 1 (CH2,CH3,CH5)        |
| 8  | SGND   | -   | SIGNAL GROUND    | 22 | VCC2   | I   | SUPPLY VOLTAGE 2 (CH1,CH4,SIGNAL,REG) |
| 9  | FWD    | I   | CH5 INPUT 1      | 23 | REF    | I   | CH BIAS INPUT                         |
| 10 | IN2    | I   | CH2 INPUT        | 24 | IN4A   | I   | CH4 INPUT 1                           |
| 11 | DO2+   | O   | CH2 OUTPUT (+)   | 25 | IN4    | I   | CH4 INPUT 2                           |
| 12 | DO2-   | O   | CH2 OUTPUT (-)   | 26 | DO4+   | O   | CH4 OUTPUT (+)                        |
| 13 | PGND1  | -   | POWER GROUND 1   | 27 | DO4-   | O   | CH4 OUTPUT (-)                        |
| 14 | REV    | I   | CH5 INPUT 2      | 28 | PGND2  | -   | POWER GROUND 2                        |

## PCM9211 (MAIN : IC22)



## PCM9211 Block Diagram



## PCM9211 Pin Discriptions

| PIN |               |     |                 | DESCRIPTION                                                                           |
|-----|---------------|-----|-----------------|---------------------------------------------------------------------------------------|
| NO. | NAME          | I/O | 5-V<br>TOLERANT |                                                                                       |
| 1   | ERROR/INT0    | O   | No              | DIR Error detection output / Interrupt0 output                                        |
| 2   | NPCM/INT1     | O   | No              | DIR Non-PCM detection output / Interrupt1 output                                      |
| 3   | MPIO_A0       | I/O | Yes             | Multipurpose I/O, Group A(1)                                                          |
| 4   | MPIO_A1       | I/O | Yes             | Multipurpose I/O, Group A(1)                                                          |
| 5   | MPIO_A2       | I/O | Yes             | Multipurpose I/O, Group A(1)                                                          |
| 6   | MPIO_A3       | I/O | Yes             | Multipurpose I/O, Group A(1)                                                          |
| 7   | MPIO_C0       | I/O | Yes             | Multipurpose I/O, Group C(1)                                                          |
| 8   | MPIO_C1       | I/O | Yes             | Multipurpose I/O, Group C(1)                                                          |
| 9   | MPIO_C2       | I/O | Yes             | Multipurpose I/O, Group C(1)                                                          |
| 10  | MPIO_C3       | I/O | Yes             | Multipurpose I/O, Group C(1)                                                          |
| 11  | MPIO_B0       | I/O | Yes             | Multipurpose I/O, Group B(1)                                                          |
| 12  | MPIO_B1       | I/O | Yes             | Multipurpose I/O, Group B(1)                                                          |
| 13  | MPIO_B2       | I/O | Yes             | Multipurpose I/O, Group B(1)                                                          |
| 14  | MPIO_B3       | I/O | Yes             | Multipurpose I/O, Group B(1)                                                          |
| 15  | MPO0          | O   | No              | Multipurpose output 0                                                                 |
| 16  | MPO1          | O   | No              | Multipurpose output 1                                                                 |
| 17  | DOUT          | O   | No              | Main output port, serial digital audio data output                                    |
| 18  | LRCK          | O   | No              | Main output port, LR clock output                                                     |
| 19  | BCK           | O   | No              | Main output port, Bit clock output                                                    |
| 20  | SCKO          | O   | No              | Main output port, System clock output                                                 |
| 21  | DGND          | -   | -               | Ground, for digital                                                                   |
| 22  | DVDD          | -   | -               | Power supply, 3.3 V (typ.), for digital                                               |
| 23  | MDO/ADRO      | I/O | Yes             | Software control I/F, SPI data output / I2C slave address setting0(2)                 |
| 24  | MDI/SDA       | I/O | Yes             | Software control I/F, SPI data input / I2C data input/output(2) (3)                   |
| 25  | MC/SCL        | I   | Yes             | Software control I/F, SPI clock input / I2C clock input(2)                            |
| 26  | MS/ADR1       | I   | Yes             | Software control I/F, SPI chip select / I2C slave address setting1(2)                 |
| 27  | MODE          | I   | No              | Control mode setting, (see the Serial Control Mode section, Control Mode Pin Setting) |
| 28  | RXIN7/AUXIN0  | I   | Yes             | Biphase signal, input 7 / AUXIN0, serial audio data input(2)                          |
| 29  | RXIN6/ALRCKI0 | I   | Yes             | Biphase signal, input 6 / AUXIN0, LR clock input(2)                                   |
| 30  | RXIN5/ABCKI0  | I   | Yes             | Biphase signal, input 5 / AUXIN0, bit clock input(2)                                  |
| 31  | RXIN4/ASCKI0  | I   | Yes             | Biphase signal, input 4 / AUXIN0, system clock input(2)                               |
| 32  | RXIN3         | I   | Yes             | Biphase signal, input 3(2)                                                            |
| 33  | RXIN2         | I   | Yes             | Biphase signal, input 2(2)                                                            |
| 34  | RST           | I   | Yes             | Reset Input, active low(2) (4)                                                        |
| 35  | RXIN1         | I   | Yes             | Biphase signal, input 1, built-in coaxial amplifier                                   |
| 36  | VDDR_X        | -   | -               | Power supply, 3.3 V (typ.), for RXIN0 and RXIN1.                                      |
| 37  | RXIN0         | I   | Yes             | Biphase signal, input 0, built-in coaxial amplifier                                   |
| 38  | GNDRX         | -   | -               | Ground, for RXIN                                                                      |
| 39  | XTI           | I   | No              | Oscillation circuit input for crystal resonator or external XTI clock source input(5) |
| 40  | XTO           | O   | No              | Oscillation circuit output for crystal resonator                                      |
| 41  | AGND          | -   | -               | Ground, for PLL analog                                                                |
| 42  | VCC           | -   | -               | Power supply, 3.3 V (typ.), for PLL analog                                            |
| 43  | FILT          | O   | No              | External PLL loop filter connection terminal; must connect recommended filter         |
| 44  | VCOM          | O   | No              | ADC common voltage output; must connect external decoupling capacitor                 |
| 45  | AGNDAD        | -   | -               | Ground, for ADC analog                                                                |
| 46  | VCCAD         | -   | -               | Power supply, 5.0 V (typ.), for ADC analog                                            |
| 47  | VINL          | I   | No              | ADC analog voltage input, left channel                                                |
| 48  | VINR          | I   | No              | ADC analog voltage input, right channel                                               |

(1) Schmitt trigger input

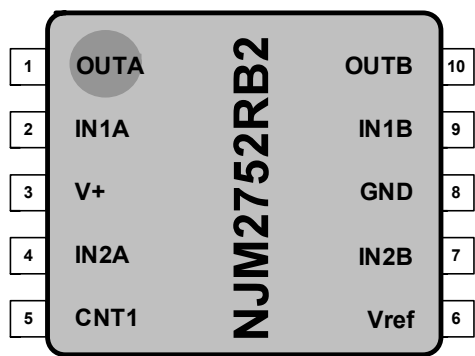
(2) Schmitt trigger input

(3) Open-drain configuration in I2C mode

(4) Onboard pull-down resistor (50 k $\Omega$ , typical)

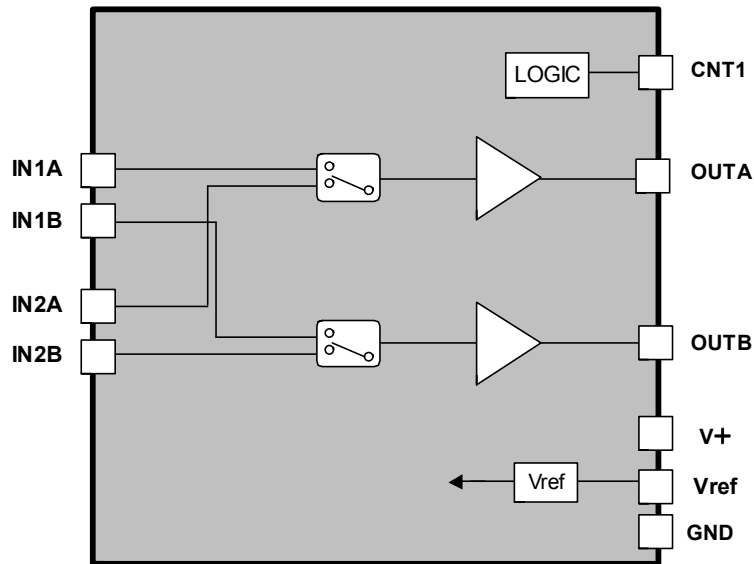
(5) CMOS Schmitt trigger input

TVSP10

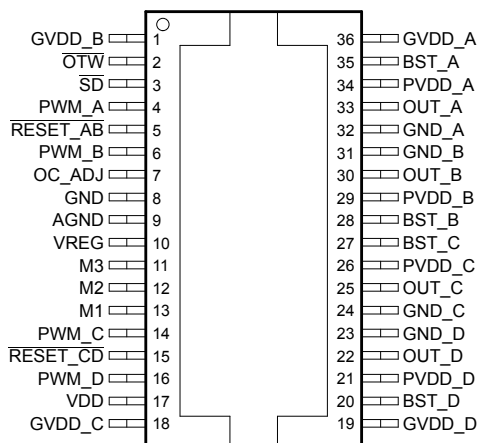


| PIN.No. | SYMBOL | FUNCTION                | PIN.No. | SYMBOL | FUNCTION            |
|---------|--------|-------------------------|---------|--------|---------------------|
| 1       | OUTA   | Ach Output Terminal     | 6       | Vref   | Reference Terminal  |
| 2       | IN1A   | Ach Input Terminal1     | 7       | IN2B   | Bch Input Terminal2 |
| 3       | V+     | Power Supply Terminal   | 8       | GND    | GND Terminal        |
| 4       | IN2A   | Ach Input Terminal2     | 9       | IN1B   | Bch Input Terminal1 |
| 5       | CNT1   | Control Switch Terminal | 10      | OUTB   | Bch Output Terminal |

NJM2755 Block Diagram



## TAS5142DKD (AMP : IC70)

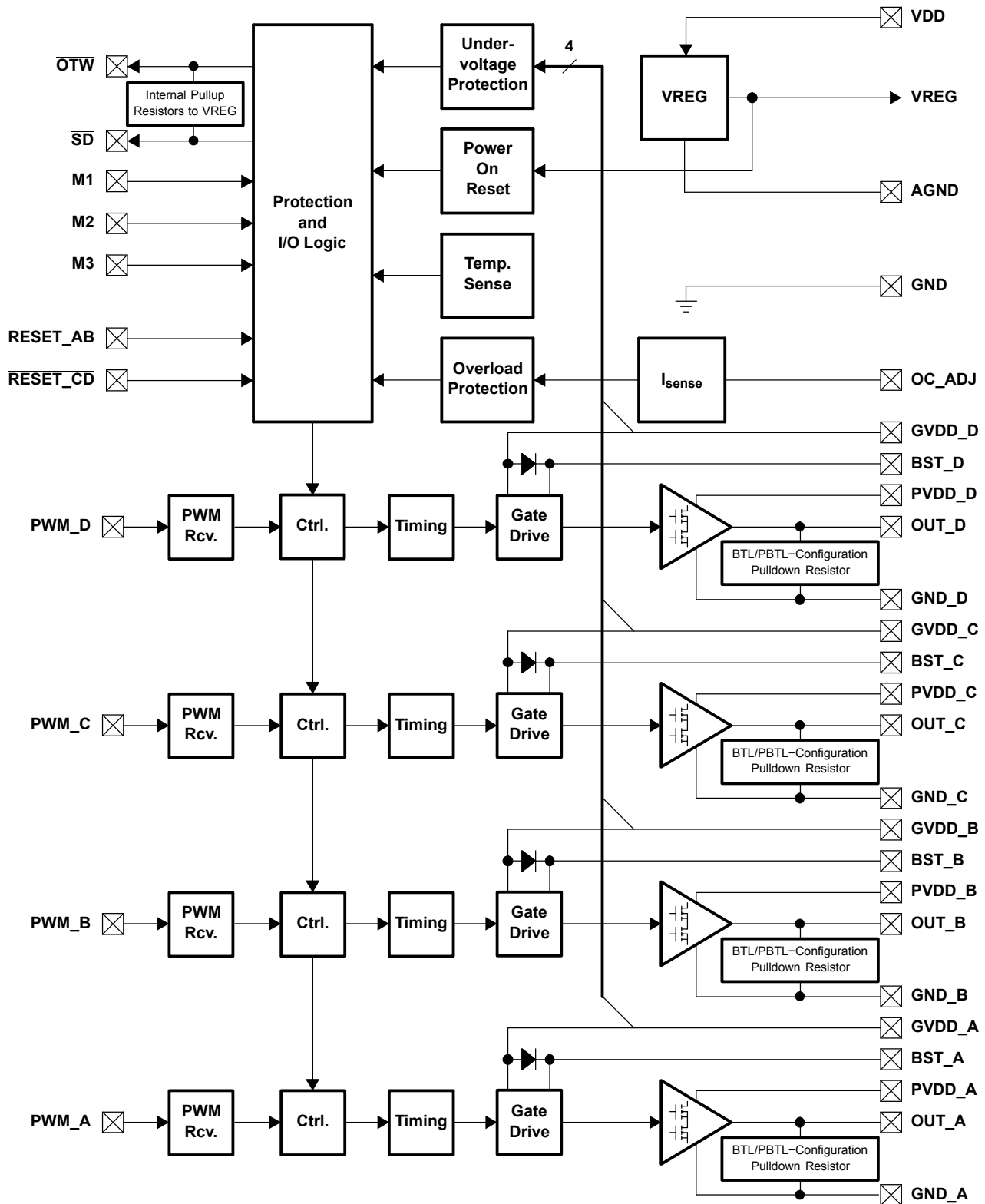


## TAS5142 Pin Discriptions

| TERMINAL |         |                      | FUNCTION <sup>(1)</sup> | DESCRIPTION                                                                                  |
|----------|---------|----------------------|-------------------------|----------------------------------------------------------------------------------------------|
| NAME     | DKD NO. | DDV NO.              |                         |                                                                                              |
| AGND     | 9       | 11                   | P                       | Analog ground                                                                                |
| BST_A    | 35      | 43                   | P                       | HS bootstrap supply (BST), external capacitor to OUT_A required                              |
| BST_B    | 28      | 34                   | P                       | HS bootstrap supply (BST), external capacitor to OUT_B required                              |
| BST_C    | 27      | 33                   | P                       | HS bootstrap supply (BST), external capacitor to OUT_C required                              |
| BST_D    | 20      | 24                   | P                       | HS bootstrap supply (BST), external capacitor to OUT_D required                              |
| GND      | 8       | 10                   | P                       | Ground                                                                                       |
| GND_A    | 32      | 38                   | P                       | Power ground for half-bridge A                                                               |
| GND_B    | 31      | 37                   | P                       | Power ground for half-bridge B                                                               |
| GND_C    | 24      | 30                   | P                       | Power ground for half-bridge C                                                               |
| GND_D    | 23      | 29                   | P                       | Power ground for half-bridge D                                                               |
| GVDD_A   | 36      | 44                   | P                       | Gate-drive voltage supply requires 0.1-μF capacitor to AGND                                  |
| GVDD_B   | 1       | 1                    | P                       | Gate-drive voltage supply requires 0.1-μF capacitor to AGND                                  |
| GVDD_C   | 18      | 22                   | P                       | Gate-drive voltage supply requires 0.1-μF capacitor to AGND                                  |
| GVDD_D   | 19      | 23                   | P                       | Gate-drive voltage supply requires 0.1-μF capacitor to AGND                                  |
| M1       | 13      | 15                   | I                       | Mode selection pin                                                                           |
| M2       | 12      | 14                   | I                       | Mode selection pin                                                                           |
| M3       | 11      | 13                   | I                       | Mode selection pin                                                                           |
| NC       | –       | 3, 4, 19, 20, 25, 42 | –                       | No connect. Pins may be grounded.                                                            |
| OC_ADJ   | 7       | 9                    | O                       | Analog overcurrent programming pin requires resistor to ground                               |
| OTW      | 2       | 2                    | O                       | Overtemperature warning signal, open-drain, active-low                                       |
| OUT_A    | 33      | 39                   | O                       | Output, half-bridge A                                                                        |
| OUT_B    | 30      | 36                   | O                       | Output, half-bridge B                                                                        |
| OUT_C    | 25      | 31                   | O                       | Output, half-bridge C                                                                        |
| OUT_D    | 22      | 28                   | O                       | Output, half-bridge D                                                                        |
| PVDD_A   | 34      | 40, 41               | P                       | Power supply input for half-bridge A requires close decoupling of 0.1-μF capacitor to GND_A. |
| PVDD_B   | 29      | 35                   | P                       | Power supply input for half-bridge B requires close decoupling of 0.1-μF capacitor to GND_B. |
| PVDD_C   | 26      | 32                   | P                       | Power supply input for half-bridge C requires close decoupling of 0.1-μF capacitor to GND_C. |
| PVDD_D   | 21      | 26, 27               | P                       | Power supply input for half-bridge D requires close decoupling of 0.1-μF capacitor to GND_D. |
| PWM_A    | 4       | 6                    | I                       | Input signal for half-bridge A                                                               |
| PWM_B    | 6       | 8                    | I                       | Input signal for half-bridge B                                                               |
| PWM_C    | 14      | 16                   | I                       | Input signal for half-bridge C                                                               |
| PWM_D    | 16      | 18                   | I                       | Input signal for half-bridge D                                                               |
| RESET_AB | 5       | 7                    | I                       | Reset signal for half-bridge A and half-bridge B, active-low                                 |
| RESET_CD | 15      | 17                   | I                       | Reset signal for half-bridge C and half-bridge D, active-low                                 |
| SD       | 3       | 5                    | O                       | Shutdown signal, open-drain, active-low                                                      |
| VDD      | 17      | 21                   | P                       | Power supply for digital voltage regulator requires 0.1-μF capacitor to GND.                 |
| VREG     | 10      | 12                   | P                       | Digital regulator supply filter pin requires 0.1-μF capacitor to AGND.                       |

(1) I = input, O = output, P = power

## TAS5142 Block Diagram



## TAS5558 (MAIN : IC23)

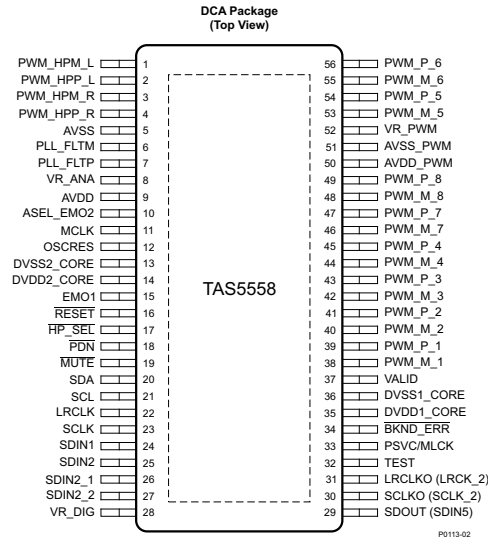


Figure 2-1. TAS5558 Pinout

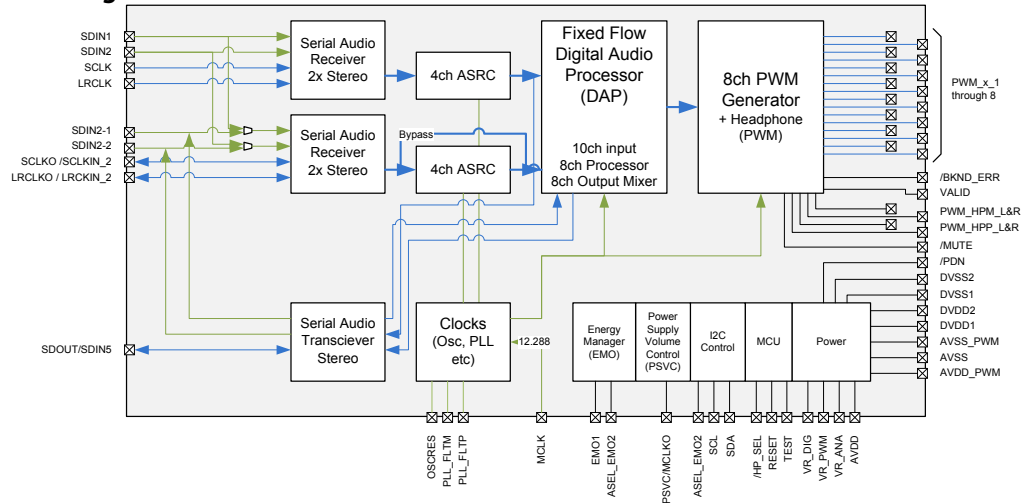
## TAS5558 Pin Discriptions

| PIN               |     | TYPE <sup>(1)</sup> | 5-V<br>TOLERANT | TERMINATION <sup>(2)</sup> | DESCRIPTION                                                                                                                                                                                                                                |
|-------------------|-----|---------------------|-----------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME              | NO. |                     |                 |                            |                                                                                                                                                                                                                                            |
| ASEL_EMO2         | 10  | DIO                 |                 | Pullup                     | I2C Address Select. Address will 0X34/0X36 with the value of pin being "0" or "1" during de-assertion of reset. Can be programmed to be an output (as energy manager output for subwoofer)                                                 |
| AVDD              | 9   | P                   |                 |                            | Analog supply (3.3 V) for PLL.                                                                                                                                                                                                             |
| AVDD_PWM          | 50  | P                   |                 |                            | 3.3-V analog power supply for PWM. This terminal can be connected to the same power source used to drive power terminal DVDD; but to achieve low PLL jitter, this terminal should be bypassed to AVSS_PWM with a 0.1-μF low-ESR capacitor. |
| AVSS              | 5   | P                   |                 |                            | Analog ground                                                                                                                                                                                                                              |
| AVSS_PWM          | 51  | P                   |                 |                            | Analog ground for PWM. Must have direct return Cu path to analog 3.3V supply for optimized performance.                                                                                                                                    |
| BKND_ERR          | 34  | DI                  |                 | Pullup                     | Active-low. A back-end error sequence is generated by applying logic low to this terminal. The BKND_ERR results in no change to I2C parameters, with all H-bridge drive signals going to a hard-mute state (Non PWM Switching).            |
| DVDD1             | 35  | P                   |                 |                            | 3.3-V digital power supply. (It is recommended that decoupling capacitors of 0.1 μF and 10 μF be mounted close to this pin).                                                                                                               |
| DVDD2             | 14  | P                   |                 |                            | 3.3-V digital power supply for PWM. (It is recommended that decoupling capacitors of 0.1 μF and 10 μF be mounted close to this pin).                                                                                                       |
| DVSS1             | 36  | P                   |                 |                            | Digital ground 1                                                                                                                                                                                                                           |
| DVSS2             | 13  | P                   |                 |                            | Digital ground 2                                                                                                                                                                                                                           |
| EMO1              | 15  | DO                  |                 |                            | Energy Manger Output interrupt - Asserted high when threshold is exceeded.                                                                                                                                                                 |
| HP_SEL            | 17  | DI                  | 5 V             | Pullup                     | Headphone/speaker selector. When a logic low is applied, the headphone is selected (speakers are off). When a logic high is applied, speakers are selected (headphone is off).                                                             |
| LRCLK             | 22  | DI                  | 5 V             | Pulldown                   | Serial-audio data left/right clock (sampling-rate clock)                                                                                                                                                                                   |
| LRCLKO / LRCKIN_2 | 31  | DIO                 | 5V              | Pulldown                   | LRCLK for I2S OUT. Can also be used as LRCKIN_2 (I2S input for SDIN2_x and SRC Bank 2)                                                                                                                                                     |
| MLCK              | 11  | DI                  |                 |                            | 3.3-V master clock input. The input frequency of this clock can range from 2 MHz to 50 MHz.                                                                                                                                                |
| MUTE              | 19  | DI                  | 5 V             | Pullup                     | Soft mute of outputs, active-low (muted signal = a logic low, normal operation = a logic high). The mute control provides a noiseless volume ramp to silence. Releasing mute provides a noiseless ramp to previous volume.                 |
| OSCRES            | 12  | DO                  |                 | 1MΩ Resistor               | Oscillator resistor (1% tolerance).                                                                                                                                                                                                        |
| PDN               | 18  | DI                  | 5 V             | Pullup                     | Power down, active-low. PDN powers down all logic and stops all clocks whenever a logic low is applied. The I2C parameters are preserved through a power-down cycle, as long as RESET is not active.                                       |
| PLL_FLTM          | 6   | AIO                 |                 |                            | PLL negative filter.                                                                                                                                                                                                                       |
| PLL_FLTP          | 7   | AIO                 |                 |                            | PLL positive filter.                                                                                                                                                                                                                       |
| PSVC/MCLKO        | 33  | DO                  |                 |                            | Power-supply volume control PWM output or MCKO for external ADC (SDIN5 Source)                                                                                                                                                             |
| PWM_HPM_L         | 1   | DO                  |                 |                            | PWM left-channel headphone (differential -)                                                                                                                                                                                                |
| PWM_HPM_R         | 3   | DO                  |                 |                            | PWM right-channel headphone (differential -)                                                                                                                                                                                               |
| PWM_HPP_L         | 2   | DO                  |                 |                            | PWM left-channel headphone (differential +)                                                                                                                                                                                                |
| PWM_HPP_R         | 4   | DO                  |                 |                            | PWM right-channel headphone (differential +)                                                                                                                                                                                               |
| PWM_M_1           | 38  | DO                  |                 |                            | PWM 1 output (differential -)                                                                                                                                                                                                              |
| PWM_M_2           | 40  | DO                  |                 |                            | PWM 2 output (differential -)                                                                                                                                                                                                              |
| PWM_M_3           | 42  | DO                  |                 |                            | PWM 3 output (differential -)                                                                                                                                                                                                              |
| PWM_M_4           | 44  | DO                  |                 |                            | PWM 4 output (differential -)                                                                                                                                                                                                              |
| PWM_M_5           | 53  | DO                  |                 |                            | PWM 5 output (lineout L) (differential -)                                                                                                                                                                                                  |
| PWM_M_6           | 55  | DO                  |                 |                            | PWM 6 output (lineout R) (differential -)                                                                                                                                                                                                  |
| PWM_M_7           | 46  | DO                  |                 |                            | PWM 7 output (differential -)                                                                                                                                                                                                              |
| PWM_M_8           | 48  | DO                  |                 |                            | PWM 8 output (differential -)                                                                                                                                                                                                              |
| PWM_P_1           | 39  | DO                  |                 |                            | PWM 1 output (differential +)                                                                                                                                                                                                              |

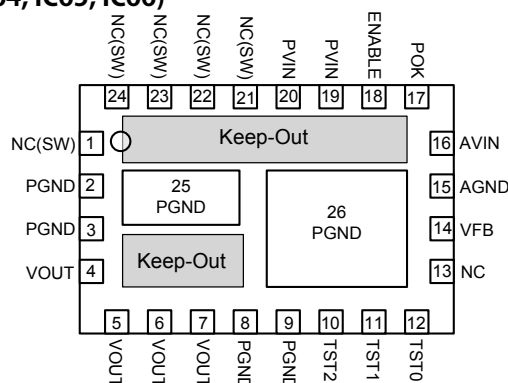
- (1) Type: A = analog; D = 3.3-V digital; P = power/ground/decoupling; I = input; O = output  
 (2) All pullups are 20-μA weak pullups and all pulldowns are 20-μA weak pulldowns. The pullups and pulldowns are included to ensure proper input logic levels if the terminals are left unconnected (pullups → logic-1 input; pulldowns → logic-0 input). Devices that drive inputs with pullups must be able to sink 20 μA while maintaining a logic-0 drive level. Devices that drive inputs with pulldowns must be able to source 20 μA while maintaining a logic-1 drive level.



## TAS5558 Block Diagram



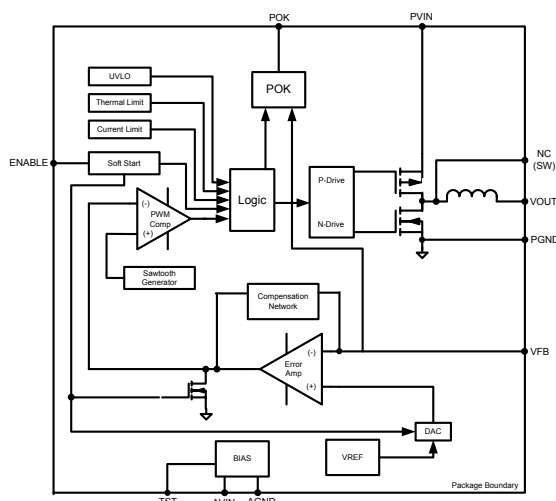
## EN5339QI (NETWORK : IC63, IC64, IC65, IC66)



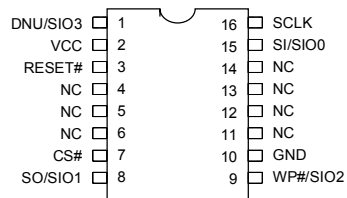
## EN5339QI Pin Discriptions

| PIN      | NAME   | FUNCTION                                                                                                                                                                                                                                                                                                                         |
|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1, 21-24 | NC(SW) | NO CONNECT: These pins are internally connected to the common switching node of the internal MOSFETs. They must be soldered to PCB but not be electrically connected to any external signal, ground, or voltage. Failure to follow this guideline may result in device damage.                                                   |
| 2-3, 8-9 | PGND   | Input and output power ground. Connect these pins to the ground electrode of the input and output filter capacitors. See VOUT, PVIN descriptions and Layout Recommendation for more details.                                                                                                                                     |
| 4-7      | VOUT   | Regulated converter output. Connect to the load and place output filter capacitor(s) between these pins and PGND pins 8 and 9. See layout recommendation for details                                                                                                                                                             |
| 10       | TST2   | Test Pin. For Altera internal use only. Connect to AVIN at all times.                                                                                                                                                                                                                                                            |
| 11       | TST1   | Test Pin. For Altera internal use only. Connect to AVIN at all times.                                                                                                                                                                                                                                                            |
| 12       | TST0   | Test Pin. For Altera internal use only. Connect to AVIN at all times.                                                                                                                                                                                                                                                            |
| 13       | NC     | NO CONNECT: This pin must be soldered to PCB but not electrically connected to any other pin or to any external signal, voltage, or ground. This pin may be connected internally. Failure to follow this guideline may result in device damage.                                                                                  |
| 14       | VFB    | This is the external feedback input pin. A resistor divider connects from the output to AGND. The mid-point of the resistor divider is connected to VFB. A feed-forward capacitor is required parallel to the upper feedback resistor ( $R_A$ ). The output voltage regulation is based on the VFB node voltage equal to 0.600V. |
| 15       | AGND   | The quiet ground for the control circuits. Connect to the ground plane with a via right next to the pin.                                                                                                                                                                                                                         |
| 16       | AVIN   | Analog input voltage for the control circuits. Connect this pin to the input power supply (PVIN) at a quiet point. Decouple with a 1uF capacitor to AGND.                                                                                                                                                                        |
| 17       | POK    | POK is an open drain output. Refer to Power OK section for details. Leave POK open if unused.                                                                                                                                                                                                                                    |
| 18       | ENABLE | Output Enable. A logic high level on this pin enables the output and initiates a soft-start. A logic low signal disables the output and discharges the output to GND. This pin must not be left floating.                                                                                                                        |
| 19-20    | PVIN   | Input power supply. Connect to input power supply and place input filter capacitor(s) between these pins and PGND pins 2 to 3.                                                                                                                                                                                                   |
| 25,26    | PGND   | Not a perimeter pin. Device thermal pad to be connected to the system GND plane for heat-sinking purposes. See Layout Recommendation section.                                                                                                                                                                                    |

## EN5339QI Block Diagram



## MX25L25635FMI (NETWORK : IC67)



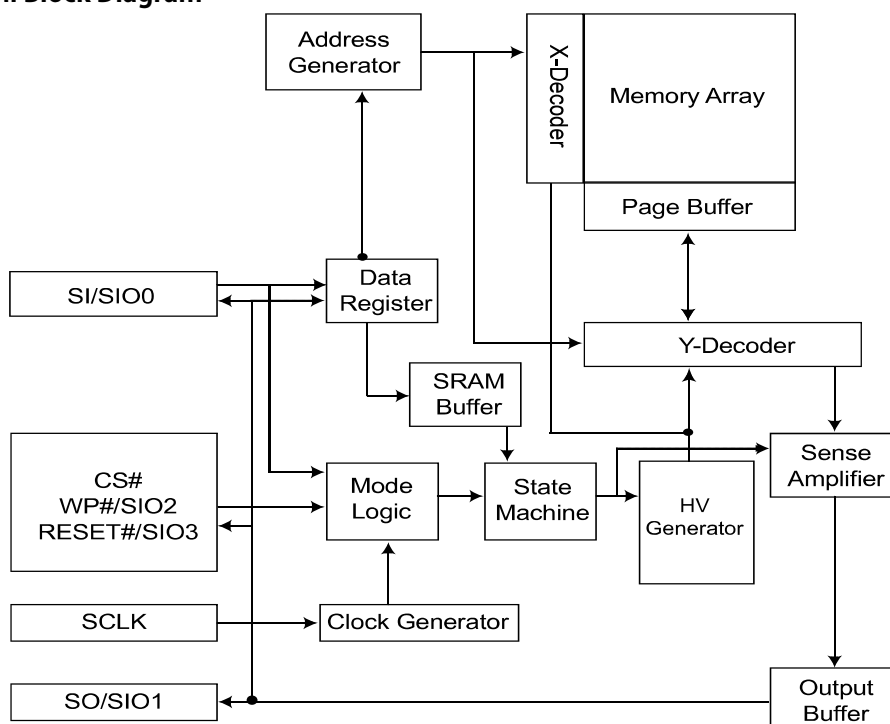
## MX25L25635FMI Pin Discriptions

| SYMBOL      | DESCRIPTION                                                                                 |
|-------------|---------------------------------------------------------------------------------------------|
| CS#         | Chip Select                                                                                 |
| SI/SIO0     | Serial Data Input (for 1 x I/O)/ Serial Data Input & Output (for 2xI/O or 4xI/O read mode)  |
| SO/SIO1     | Serial Data Output (for 1 x I/O)/ Serial Data Input & Output (for 2xI/O or 4xI/O read mode) |
| SCLK        | Clock Input                                                                                 |
| WP#/SIO2    | Write protection: connect to GND or Serial Data Input & Output (for 4xI/O read mode)        |
| RESET#/SIO3 | Hardware Reset Pin Active low or Serial Data Input & Output (for 4xI/O read mode)           |
| DNU/SIO3    | Do not use or Serial Data Input & Output (for 4xI/O read mode)                              |
| RESET#*     | Hardware Reset Pin Active low                                                               |
| VCC         | + 3V Power Supply                                                                           |
| GND         | Ground                                                                                      |
| NC          | No Connection                                                                               |

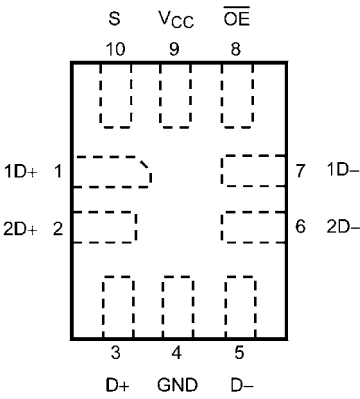
### Notes:

1. RESET# pin has internal pull up.
2. When using 1I/O or 2I/O (QE bit not enable), the DNU/SIO3 pin of 16SOP can not connect to GND. Recommend to connect this pin to VCC or floating.

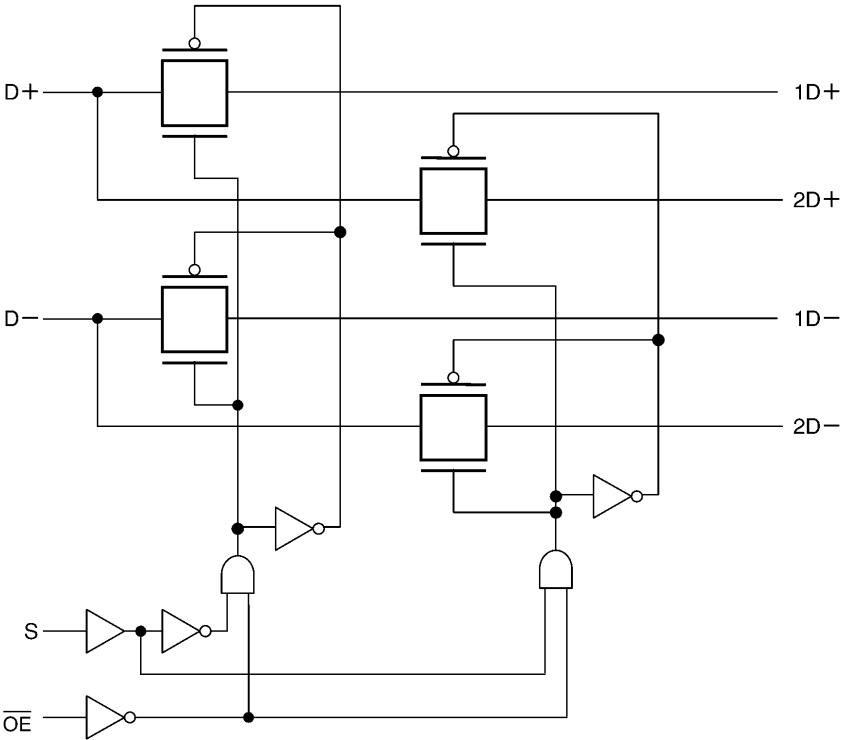
## MX25L25635FMI Block Diagram



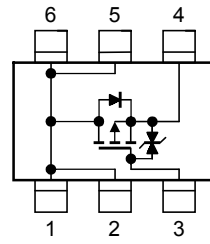
TC7USB40MU (NETWORK : IC62)



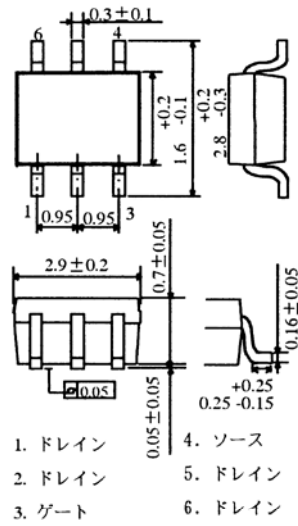
TC7USB40MU Block Diagram



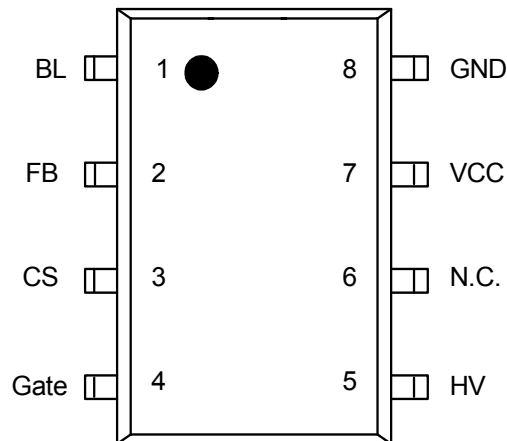
## TPC6111 (NETWORK : Q681)



## TPC6111 Pin Discriptions



## ICE3BS03LJG (SMPS : IC91)

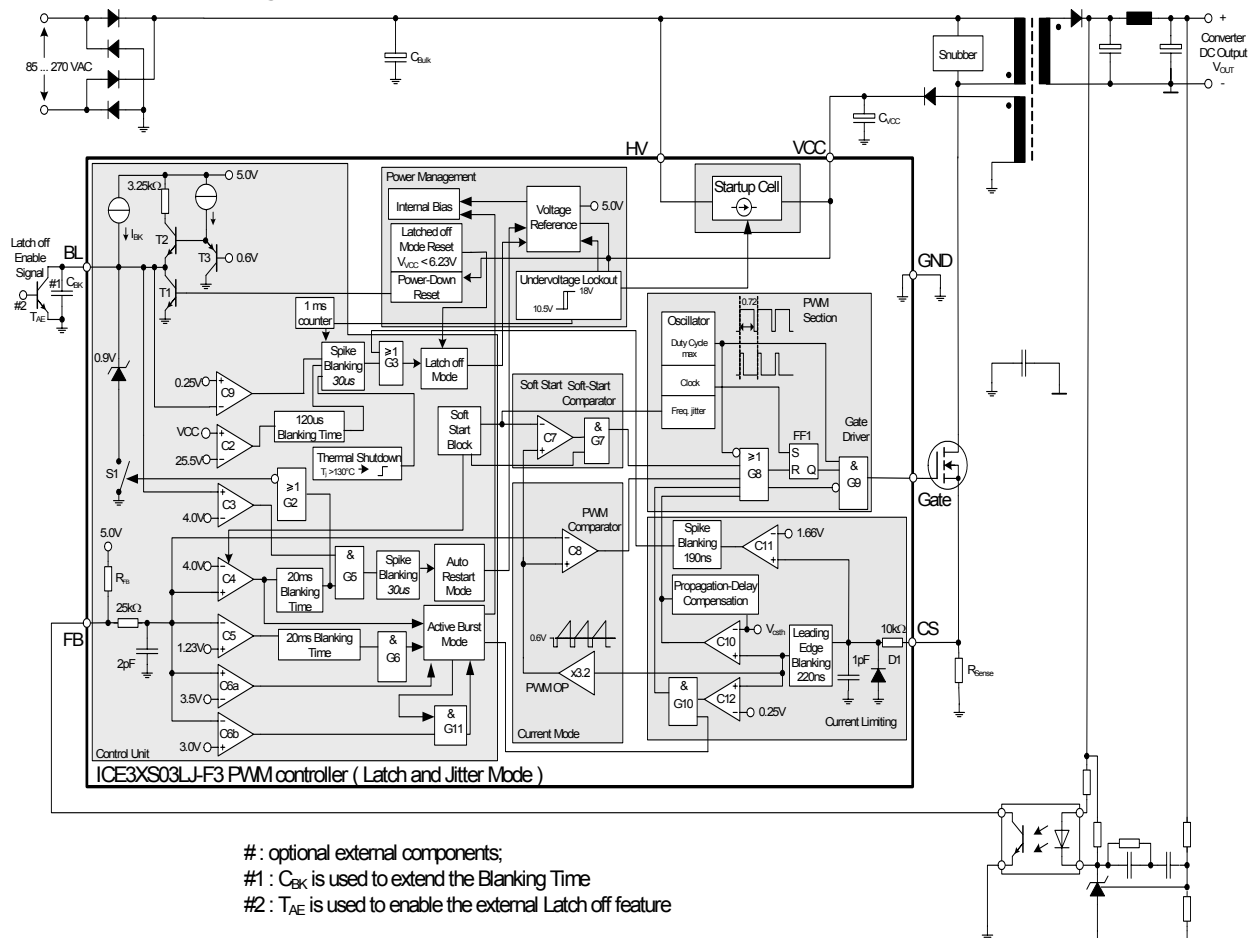


### ICE3BS03LJG Pin Discriptions

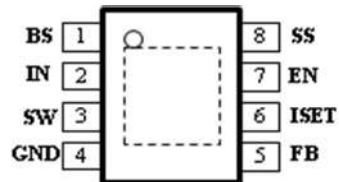
| Pin | Symbol | Function                               |
|-----|--------|----------------------------------------|
| 1   | BL     | extended Blanking and Latch off enable |
| 2   | FB     | Feedback                               |
| 3   | CS     | Current Sense                          |
| 4   | Gate   | Gate driver output                     |
| 5   | HV     | High Voltage input                     |
| 6   | NC     | Not connected                          |
| 7   | VCC    | Controller Supply Voltage              |
| 8   | GND    | Controller Ground                      |

(1) at  $T_J = 110^\circ\text{C}$

### ICE3BS03LJG Block Diagram



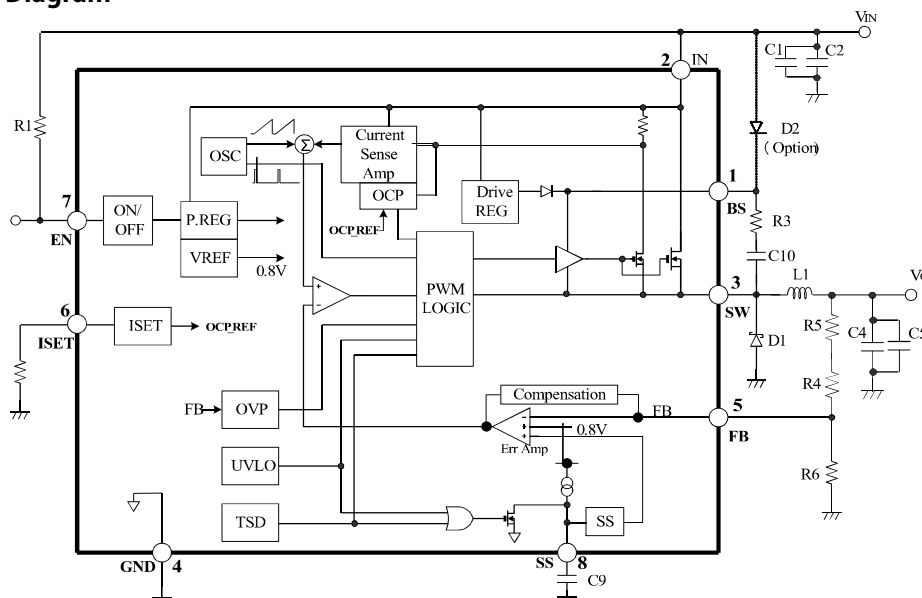
## NR111E (SMPS : IC95)



### NR111E Pin Discriptions

| Pin No. | Symbol | Description                                                                                                                                                                                        |
|---------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | BS     | High-side Boost input.<br>BS supplies the drive for High-side Nch-MOSFET switch.<br>Connect a capacitor and a resistor between SW to BS.                                                           |
| 2       | IN     | Power input. IN supplies the power to the IC as well as the regulator switches                                                                                                                     |
| 3       | SW     | Power switching output.<br>SW supplies power to the output.<br>Connect the LC filter from SW to the output.<br>Note that a capacitor is required from SW to BS to supply the power the High switch |
| 4       | GND    | Ground<br>Connect the exposed pad to Pin No.4                                                                                                                                                      |
| 5       | FB     | Feedback input Pin to compare Reference Voltage. The feedback threshold is 0.8V.<br>To set the output voltage, FB Pin is required to connect between resistive vc divider R4 and R6.               |
| 6       | ISET   | Adjust Pin of OCP starting current<br>OCP starting current can be adjusted by connecting a resistor to ISET Pin.<br>In the case of using at Maximum Io, ISET Pin is required to connect to GND.    |
| 7       | EN     | Enable input.<br>Drive EN Pin high to turn on the regulator, low to turn it off.                                                                                                                   |
| 8       | SS     | Soft-Start control input.<br>To set the soft-start period, connect to a capacitor between GND.                                                                                                     |

### NR111E Block Diagram

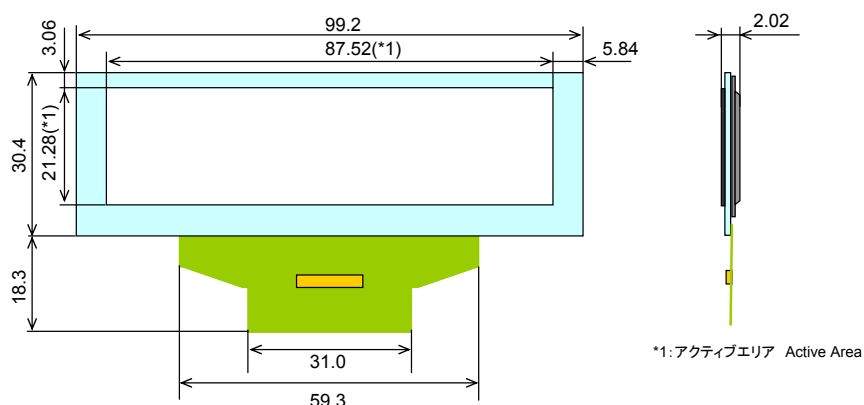




## 2. DISPLAY

### S020-MXS4035A-3 (FRONT : WF12)

| 端子番号<br>Pin No. | 端子名<br>Pin Name | 入出力<br>I/O | 機能<br>Function                                  |
|-----------------|-----------------|------------|-------------------------------------------------|
| 1               | VSS             | P          | グラウンド GND                                       |
| 2               | VCC             | P          | ドライブ系電源電圧 Drive System Power Voltage            |
| 3               | VCOMH           | P          | 陰極電源 Power Supply for Cathode Driver            |
| 4               | VLSS            | P          | アナロググラウンド Analog System Ground                  |
| 5               | CLS             | I          | VDDIO接続 Connect to VDDIO                        |
| 6               | D7              | I          | データバス Data Bus                                  |
| 7               | D6              | I          | データバス Data Bus                                  |
| 8               | D5              | I          | データバス Data Bus                                  |
| 9               | D4              | I          | データバス Data Bus                                  |
| 10              | D3              | I          | データバス Data Bus                                  |
| 11              | D2              | I          | データバス Data Bus                                  |
| 12              | D1(SDIN)        | I          | データバス(シリアルデータ) Data Bus(Serial Data)            |
| 13              | D0(SCLK)        | I          | データバス(シリアルクロック) Data Bus(Serial Clock)          |
| 14              | RD#             | I          | 読み出し Read                                       |
| 15              | WR#             | I          | 書き込み Write                                      |
| 16              | BS0             | I          | インターフェース選択端子                                    |
| 17              | BSI             | I          | Select MCU Bus Interface Setting                |
| 18              | D/C#            | I          | データ/コマンド選択 Select Data/Command                  |
| 19              | CS#             | I          | チップセレクト Chip Select                             |
| 20              | RES#            | I          | リセット Reset                                      |
| 21              | VSS             | P          | グラウンド GND                                       |
| 22              | CL              | I          | VSS接続 Connect to VSS                            |
| 23              | IREF            | O          | 基準電流 Reference Current Setting                  |
| 24              | NC              | -          |                                                 |
| 25              | VDDIO           | P          | インターフェイス系電源電圧<br>Interface System Power Voltage |
| 26              | VDD             | O          | 内部ロジック電源 Internal Logic Power                   |
| 27              | VCI             | P          | ロジック系電源 Logic System Power Voltage              |
| 28              | VSL             | P          | 陽極基準電位 Anode Reference Voltage                  |
| 29              | VLSS            | P          | アナロググラウンド Analog System Ground                  |
| 30              | VCC             | P          | ドライブ系電源電圧 Drive System Power Voltage            |



## FRONT PCB ASS'Y

※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. &amp; Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model WT : White model

| REF No.                     | Part No.      | Part Name                                         | Remarks | Q'ty             | New | Ver |
|-----------------------------|---------------|---------------------------------------------------|---------|------------------|-----|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                                                   |         |                  |     |     |
| D101                        | nsp           | DIODE , ZENER(CHIP,2.7V)                          |         | HVDUDZS2.7BSR    | 1   |     |
| D102                        | 943263100860M | L.E.D.(GREEN/RED 3P)                              |         | CVDWEJ3290W-R2H  | 1   |     |
| D103,104                    | 943209001080S | DIODE , CHIP , SWITCHING                          |         | CVD1SS355T       | 2   |     |
| D105                        | 943263003130S | L.E.D , WHITE                                     |         | CVD1L0345W31BOC  | 1   |     |
| Q101-104                    | 943213500160S | T.R.RT1N237C(2.2K-47K)                            |         | CVTRT1N237C      | 4   |     |
| Q108                        | 943215500020S | T.R.RT1P141C(10K-10K)                             |         | CVTRT1P141C      | 1   |     |
| <b>RESISTOR GROUP</b>       |               |                                                   |         |                  |     |     |
| R105,106                    | nsp           | RES, CHIP(1608/5%/150ohm)                         |         | CRJ10DJ151T      | 2   |     |
| R107                        | nsp           | RES, CHIP(1608/5%/180ohm)                         |         | CRJ10DJ181T      | 1   |     |
| R108                        | nsp           | RES, CHIP(1608/5%/270ohm)                         |         | CRJ10DJ271T      | 1   |     |
| R109                        | nsp           | RES, CHIP(1608/5%/390ohm)                         |         | CRJ10DJ391T      | 1   |     |
| R110                        | nsp           | RES, CHIP(1608/5%/150ohm)                         |         | CRJ10DJ151T      | 1   |     |
| R111                        | nsp           | RES, CHIP(1608/5%/180ohm)                         |         | CRJ10DJ181T      | 1   |     |
| R115                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R122                        | nsp           | RES, CHIP(1608/5%/100ohm)                         |         | CRJ10DJ101T      | 1   |     |
| R123                        | nsp           | RES, CHIP(1608/5%/10Kohm)                         |         | CRJ10DJ103T      | 1   |     |
| R125                        | nsp           | RES, CHIP(1608/5%/1Mohm)                          |         | CRJ10DJ105T      | 1   |     |
| R126                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R131-133                    | nsp           | RES, CHIP(1608/5%/1Kohm)                          |         | CRJ10DJ102T      | 3   |     |
| R134                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R135                        | nsp           | RES, CHIP(1608/5%/100ohm)                         |         | CRJ10DJ101T      | 1   |     |
| R136                        | nsp           | RES, CHIP(1608/5%/10ohm)                          |         | CRJ10DJ100T      | 1   |     |
| R137                        | nsp           | RES, CHIP(1608/5%/150ohm)                         |         | CRJ10DJ151T      | 1   |     |
| R138                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R139                        | nsp           | RES, CHIP(1608/5%/100ohm)                         |         | CRJ10DJ101T      | 1   |     |
| R140                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R141                        | nsp           | RES, CHIP(1608/5%/560ohm)                         |         | CRJ10DJ561T      | 1   |     |
| R152                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R154                        | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 1   |     |
| R156                        | nsp           | RES, CHIP(1608/5%/47Kohm)                         |         | CRJ10DJ473T      | 1   |     |
| R161-165                    | nsp           | RES, CHIP(1608/5%/33ohm)                          |         | CRJ10DJ330T      | 5   |     |
| R166,167                    | nsp           | RES, CHIP(1608/5%/0ohm)                           |         | CRJ10DJ0R0T      | 2   |     |
| R181-190                    | nsp           | RES, CHIP(1608/5%/33ohm)                          |         | CRJ10DJ330T      | 10  |     |
| <b>CAPACITORS GROUP</b>     |               |                                                   |         |                  |     |     |
| C102,103                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 2   |     |
| C104,105                    | 943134502030D | CAP, ELECT(50V/10uF)                              |         | CCEA1HH100TC     | 2   |     |
| C111                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C112                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C113                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C114                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C115                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C116-119                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 4   |     |
| C120                        | 943134010670S | CAP, ELECT(16V/47uF)-S                            |         | CCEA1CKS470T     | 1   |     |
| C121-123                    | nsp           | CAP, CHIP(1608, 50V/47pF, C0G) SAMSUNG            |         | CCUS1H470JAS     | 3   |     |
| C124                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C125                        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        |         | CCUS1A105KCS     | 1   |     |
| C126                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C127                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C128                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C130,131                    | nsp           | CAP, CHIP(2012, 25V/4.7uF)                        |         | CCUC1E475KC      | 2   |     |
| C132                        | 943134503420D | CAP, ELECT(35V/10uF)-S                            |         | CCEA1VKS100T     | 1   | *   |
| C133                        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        |         | CCUS1A105KCS     | 1   |     |
| C134                        | nsp           | CAP, CHIP(2012, 50V/1uF, X7R, X7S) SAMSUNG        |         | CCUC1H105KCS     | 1   |     |
| C135                        | nsp           | CAP, CHIP(2012, 25V/4.7uF)                        |         | CCUC1E475KC      | 1   |     |
| C136                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C137                        | 943134503420D | CAP, ELECT(35V/10uF)-S                            |         | CCEA1VKS100T     | 1   | *   |
| C139                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C141                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C142-144                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 3   |     |
| C151                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C152-154                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 3   |     |
| C157,158                    | nsp           | CAP, CHIP(1608, 50V/0.027uF, X7R) SAMSUNG         |         | CCUS1H273KCS     | 2   |     |
| C159                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C161-166                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 6   |     |
| C167                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C168                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C172                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C173                        | 943134503350D | CAP, ELECT(10V/470uF)                             |         | CCEA1AH471TC     | 1   | *   |
| C174                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C175                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C176                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C180                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C181                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C182                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          |         | CCUS1H102KCS     | 1   |     |
| C183                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C184                        | 943134502030D | CAP, ELECT(50V/10uF)                              |         | CCEA1HH100TC     | 1   |     |
| C185                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C186                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| C187                        | 943134502030D | CAP, ELECT(50V/10uF)                              |         | CCEA1HH100TC     | 1   |     |
| C188                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           |         | CCUS1H104KCS     | 1   |     |
| C189                        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          |         | CCUS1H103KCS     | 1   |     |
| <b>OTHER PARTS GROUP</b>    |               |                                                   |         |                  |     |     |
| BK20                        | nsp           | BRACKET , PCB                                     |         | CMD1A569-V1      | 1   |     |
| CN16                        | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2mm               |         | CJP05GI236ZW     | 1   |     |
| GND1,2                      | nsp           | PLATE , EARTH(TRONIC ELECTRONICS)                 |         | CJT1A026         | 2   |     |
| JK11                        | 943643102870S | JACK , HEADPHONE (SILVER)                         |         | CJ2D003Z         | 1   |     |
| JK12,13                     | 943643102630M | MODULE , OPTICAL(RX 25MHz)                        |         | CJSJSR2124-00-BB | 2   |     |
| L101,102                    | nsp           | FERRITE CHIP BEAD(2012/120R)                      |         | CLZBLM21AG121SN  | 2   |     |
| L103-105                    | nsp           | FERRITE CHIP BEAD(4516/60R)                       |         | CLZ9Z014Z        | 3   |     |
| L106,107                    | nsp           | COIL , CHIP(10uH, 2012)                           |         | CLQ08E100KRZ     | 2   |     |
| L110-112                    | nsp           | FERRITE CHIP BEAD(4516/60R)                       |         | CLZ9Z014Z        | 3   |     |
| L113-115                    | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)                  |         | CLZ9R001Z        | 3   |     |
| PF13                        | nsp           | WAFER, FFC(5P-1mm, ANGLE)                         |         | CJP05GB113ZY     | 1   |     |
| RC11                        | 943262010290S | SENSOR , REMOTE/U                                 |         | CRVKSM603TH5B    | 1   |     |
| S101-109                    | 943662101030D | SW, TACT (DIP, DARK GRAY, H=5mm, 1.57N)           |         | CST1A0382T       | 9   | *   |
| S112                        | 943662101030D | SW, TACT (DIP, DARK GRAY, H=5mm, 1.57N)           |         | CST1A0382T       | 1   | *   |
| SW11                        | 943662100180M | SW, TACT, VERTICAL (3.3mm)                        |         | CST1A0322T       | 1   |     |
| TM11                        | 943183100530D | TUNER(EUR) , FM, AM, RDS (S/LAB)                  | E2, E1C | CNVMMW104MV1S63  | 1   | *   |
| TM11                        | 943183100540D | TUNER(USA/JAPAN) , FM(SCREW : F TYPE), AM (S/LAB) | JP      | CNVMMW004MV1S63  | 1   | *   |
| WF11                        | nsp           | WAFER, FFC(27P-1.25mm, ANGLE)                     |         | CJP27GB116ZY     | 1   |     |
| WF12                        | nsp           | WAFER, FFC/FFC(30P, 1mm PITCH, ANGLE)             |         | CJP30GB305ZN     | 1   |     |
| WF13                        | nsp           | WAFER, FFC(5P-1mm, ANGLE)                         |         | CJP05GB113ZY     | 1   |     |
| WF14                        | nsp           | WAFER, FFC(4P-1mm, ANGLE)                         |         | CJP04GB113ZY     | 1   |     |
| WF15                        | nsp           | WAFER, FFC(11P-1mm, STRAIGHT)                     |         | CJP11GA117ZY     | 1   |     |
| ★                           | 963179100040S | OLED MODULE (MXS4035-A)                           |         | CFLMXS4035-A     | 1   |     |

## MAIN For E2,JP PCB ASS'Y

※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. &amp; Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model WT : White model

| REF No.                     | Part No.      | Part Name                                                                                             | Remarks | Q'ty             | New | Ver |
|-----------------------------|---------------|-------------------------------------------------------------------------------------------------------|---------|------------------|-----|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                                                                                                       |         |                  |     |     |
| D201-210                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E2, JP  | CVD1SS355T       | 10  |     |
| D212,213                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E2, JP  | CVD1SS355T       | 2   |     |
| D214,215                    | 90M-HD201820R | DIODE, SCHOTTKY BARRIER                                                                               | E2, JP  | HVDRB160L60TE25  | 2   |     |
| D216,217                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E2, JP  | CVD1SS355T       | 2   |     |
| D218                        | 90M-HD201820R | DIODE, SCHOTTKY BARRIER                                                                               | E2, JP  | HVDRB160L60TE25  | 1   |     |
| D219                        | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E2, JP  | CVD1SS355T       | 1   |     |
| D601-604                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E2, JP  | CVD1SS355T       | 4   |     |
| IC20                        | 943239101590D | I.C , Audio Switch Stereo(TVSP10)                                                                     | E2, JP  | CVINJM2752RB2    | 1   | *   |
| IC21                        | 943234009290S | I.C , RESET 2.4V (200ms,C-MOS,SOT23-5P)                                                               | E2, JP  | CVIS80124CLMCJJI | 1   |     |
| IC22                        | 943236101350D | I.C , DIR/DIT(WITH ADC,LQFP-48P)                                                                      | E2, JP  | CVIPC9211PTR     | 1   |     |
| IC23                        | 943239101600D | I.C , PWM PROCESSOR(HTSSOP-56P)                                                                       | E2, JP  | CVITAS5558DCAR   | 1   | *   |
| IC24                        | 943235100670M | I.C , OP AMP                                                                                          | E2, JP  | HVINJM4556AMTE1  | 1   |     |
| IC25                        | 00MHC10102090 | I.C , OP AMP (JRC)                                                                                    | E2, JP  | HVINJM2068MDTE1  | 1   |     |
| IC26                        | 943239101500S | I.C , EEPROM(128KBIT,SOP-8P)                                                                          | E2, JP  | CVIR1EX24128BSA  | 1   |     |
| IC27                        | 943239101610D | I.C, REGULATOR(3.3V, TO-252-5, Io=1.5A, LDO)                                                          | E2, JP  | CVINJM2857DL3-33 | 1   | *   |
| IC28                        | -             | I.C, CPU(2M/PLQP0144KA-A)                                                                             | E2, JP  | CVIR5F56108VNF   | 1   |     |
| IC28                        | 943243102690S | I.C,MAIN MCU(DRA-N4,RCD-N9),2M/PLQP0144KA-A<br>See Procedure after Replacing the Microprocessor, etc. | E2, JP  | CVIANAM2033CR    | 1   | *   |
| IC29                        | 943239010400S | I.C, REGULATOR(3.3V/TO-252)                                                                           | E2, JP  | CVINJM2845DL133  | 1   |     |
| IC60                        | 943239001120S | IC , CURRENT LIMITER                                                                                  | E2, JP  | CVIRT9702APB     | 1   |     |
| IC61                        | 23671011050AS | I.C , IPOD AUTHENTICATION FROM D&M                                                                    | E2, JP  | CVI23671011050AS | 1   |     |
| IC62                        | 943606502150M | I.C , USB SWITCH(DUAL SPDT,UQFN10)                                                                    | E2, JP  | CVITC7USB40MU    | 1   |     |
| IC63-66                     | 943239101070S | I.C , DC-DC CONVERTER (3A, QFN T&R-24P)                                                               | E2, JP  | CVIEN5339OI      | 4   |     |
| IC67                        | 24681009260AS | I.C , SERIAL FLASH(256M,SOP-16)                                                                       | E2, JP  | CVIMX25L25635FMI | 1   | *   |
| Q200,201                    | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E2, JP  | CVTRT1P141C      | 2   |     |
| Q203                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E2, JP  | CVTRT1P141C      | 1   |     |
| Q204,205                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E2, JP  | CVTRT1N141C      | 2   |     |
| Q206,207                    | 963216500060S | T.R,RT1N144C(10K-47K)                                                                                 | E2, JP  | CVTRT1N144C      | 2   |     |
| Q208                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E2, JP  | CVTRT1P141C      | 1   |     |
| Q211-216                    | 00D9430072502 | T.R , CHIP , SOT-23                                                                                   | E2, JP  | HVTKT2875B       | 6   |     |
| Q218                        | 943222500300S | FET, BSS138BK, N-CH, TO-236AB, NXP                                                                    | E2, JP  | CVTBSS138BK      | 1   |     |
| Q219-221                    | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E2, JP  | CVTRT1P141C      | 3   |     |
| Q222                        | 943229500160D | FET, FDN360P, P-CH, SOT-23, FAIRCHILD                                                                 | E2, JP  | CVTFDN360P       | 1   | *   |
| Q223-226                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E2, JP  | CVTRT1N141C      | 4   |     |
| Q228-231                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E2, JP  | CVTRT1N141C      | 4   |     |
| Q232                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E2, JP  | CVTRT1P141C      | 1   |     |
| Q233                        | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E2, JP  | CVTRT1N141C      | 1   |     |
| Q680                        | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E2, JP  | CVTRT1N141C      | 1   |     |
| Q681                        | 943229500020S | MOSFET,TPC6111(P-CH,U-MOSV)                                                                           | E2, JP  | CVTTPC6111       | 1   |     |
| <b>RESISTOR GROUP</b>       |               |                                                                                                       |         |                  |     |     |
| R200-203                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 4   |     |
| R204-209                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 6   |     |
| R210                        | nsp           | RES, CHIP(1005/5%/4.7Kohm)                                                                            | E2, JP  | CRJ06I472T       | 1   |     |
| R211                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 1   |     |
| R212,213                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 2   |     |
| R214                        | nsp           | RES, CHIP(1005/5%/22Kohm)                                                                             | E2, JP  | CRJ06I223T       | 1   |     |
| R215-220                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 6   |     |
| R221-229                    | nsp           | RES, CHIP(1005/5%/100Kohm)                                                                            | E2, JP  | CRJ06I104T       | 9   |     |
| R230                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 1   |     |
| R231                        | nsp           | RES, CHIP(1005/5%/15Kohm)                                                                             | E2, JP  | CRJ06I153T       | 1   |     |
| R232                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 1   |     |
| R235                        | nsp           | RES, CHIP(2012/5%/18ohm)                                                                              | E2, JP  | CRJ18AJ180T      | 1   |     |
| R236-238                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 3   |     |
| R240,241                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 2   |     |
| R243,244                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 2   |     |
| R246-254                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 9   |     |
| R256                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 1   |     |
| R257                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | JP      | CRJ06I103T       | 1   |     |
| R258                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 1   |     |
| R260-262                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E2, JP  | CRJ06I103T       | 3   |     |
| R263                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 1   |     |
| R264,265                    | nsp           | RES, CHIP(1005/5%/1Kohm)                                                                              | E2, JP  | CRJ06I102T       | 2   |     |
| R267                        | nsp           | RES, CHIP(1005/5%/100ohm)                                                                             | E2, JP  | CRJ06I101T       | 1   |     |
| R269-271                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 3   |     |
| R273-277                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 5   |     |
| R280                        | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 1   |     |
| R281-283                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 3   |     |
| R284,285                    | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E2, JP  | CRJ10DJ102T      | 2   |     |
| R286-289                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 4   |     |
| R290-293                    | nsp           | RES, CHIP(1608/5%/4.7Kohm)                                                                            | E2, JP  | CRJ10DJ472T      | 4   |     |
| R294-297                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 4   |     |
| R299-304                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 6   |     |
| R312                        | nsp           | RES, CHIP(1608/5%/1Mohm)                                                                              | E2, JP  | CRJ10DJ105T      | 1   |     |
| R313-316                    | nsp           | RES, CHIP(1608/5%/15Kohm)                                                                             | E2, JP  | CRJ10DJ153T      | 4   |     |
| R317                        | nsp           | RES, CHIP(1608/5%/100Kohm)                                                                            | E2, JP  | CRJ10DJ104T      | 1   |     |
| R318,319                    | nsp           | RES, CHIP(1608/5%/150Kohm)                                                                            | E2, JP  | CRJ10DJ154T      | 2   |     |
| R320                        | nsp           | RES, CHIP(1608/5%/1ohm)                                                                               | E2, JP  | CRJ10DJ1R0T      | 1   |     |
| R321                        | nsp           | RES, CHIP(1608/5%/3.3ohm)                                                                             | E2, JP  | CRJ10DJ3R3T      | 1   |     |
| R323                        | nsp           | RES, CHIP(1005/5%/8.2Kohm)                                                                            | E2, JP  | CRJ06I822T       | 1   |     |
| R324                        | nsp           | RES, CHIP(1005/5%/47Kohm)                                                                             | E2, JP  | CRJ06I473T       | 1   |     |
| R326-336                    | nsp           | RES, CHIP(1005/5%/4.7Kohm)                                                                            | E2, JP  | CRJ06I472T       | 11  |     |
| R337-340                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 4   |     |
| R342                        | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 1   |     |
| R344-348                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 5   |     |
| R349-354                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 6   |     |
| R355                        | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E2, JP  | CRJ10DJ0R0T      | 1   |     |
| R358-361                    | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E2, JP  | CRJ10DJ0R0T      | 4   |     |
| R365,366                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E2, JP  | CRJ06J0R0T       | 2   |     |
| R367,368                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E2, JP  | CRJ06I330T       | 2   |     |
| R369                        | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E2, JP  | CRJ10DJ0R0T      | 1   |     |
| R370                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 1   |     |
| R377,378                    | nsp           | RES, CHIP(6432/5%/1Kohm)                                                                              | E2, JP  | CRJ01HJ102T      | 2   |     |
| R379,380                    | nsp           | RES, CHIP(6432/5%/100ohm)                                                                             | E2, JP  | CRJ01HJ101T      | 2   |     |
| R382                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 1   |     |
| R384-386                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E2, JP  | CRJ10DJ103T      | 3   |     |
| R401,402                    | nsp           | RES, CHIP(2012/5%/10ohm)                                                                              | E2, JP  | CRJ18AJ100T      | 2   |     |
| R403,404                    | nsp           | RES, CHIP(2012/5%/47ohm)                                                                              | E2, JP  | CRJ18AJ470T      | 2   |     |
| R405                        | nsp           | RES, CHIP(1608/5%/100ohm)                                                                             | E2, JP  | CRJ10DJ101T      | 1   |     |
| R406,407                    | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E2, JP  | CRJ10DJ102T      | 2   |     |
| R408                        | nsp           | RES, CHIP(1005/5%/1Kohm)                                                                              | E2, JP  | CRJ06I102T       | 1   |     |
| R409                        | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E2, JP  | CRJ10DJ102T      | 1   |     |
| R410-416                    | nsp           | RES, CHIP(1608/5%/4.7Kohm)                                                                            | E2, JP  | CRJ10DJ472T      | 7   |     |
| R417-420                    | nsp           | RES, CHIP(1608/5%/3.3Kohm)                                                                            | E2, JP  | CRJ10DJ332T      | 4   |     |
| R421,422                    | nsp           | RES, CHIP(1608/5%/4.7Kohm)                                                                            | E2, JP  | CRJ10DJ472T      | 2   |     |
| R423,424                    | nsp           | RES, CHIP(1608/5%/470ohm)                                                                             | E2, JP  | CRJ10DJ471T      | 2   |     |

| REF No.                 | Part No.      | Part Name                                 | Remarks | Q'ty          | New | Ver |
|-------------------------|---------------|-------------------------------------------|---------|---------------|-----|-----|
| R425-431                | nsp           | RES, CHIP(1608/5%/47ohm)                  | E2, JP  | CRJ10DJ470T   | 7   |     |
| R432                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E2, JP  | CRJ10DJ103T   | 1   |     |
| R433-436                | nsp           | RES, CHIP(1608/5%/27Kohm)                 | E2, JP  | CRJ10DJ273T   | 4   |     |
| R439-446                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E2, JP  | CRJ10DJ330T   | 8   |     |
| R447, 448               | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E2, JP  | CRJ10DJ223T   | 2   |     |
| R449                    | nsp           | RES, CHIP(1608/5%/100Kohm)                | E2, JP  | CRJ10DJ104T   | 1   |     |
| R450                    | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E2, JP  | CRJ10DJ223T   | 1   |     |
| R451                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 1   |     |
| R462                    | nsp           | RES, CHIP(1608/1%/18Kohm)                 | E2, JP  | CRJ10DF1802T  | 1   |     |
| R463, 464               | nsp           | RES, CHIP(2012/5%/10ohm)                  | E2, JP  | CRJ18AJ100T   | 2   |     |
| R465                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 1   |     |
| R466, 467               | nsp           | RES, CHIP(1005/5%/33ohm)                  | E2, JP  | CRJ06J330T    | 2   |     |
| R469                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 1   |     |
| R470                    | nsp           | RES, CHIP(1608/5%/680ohm)                 | E2, JP  | CRJ10DJ681T   | 1   |     |
| R471                    | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E2, JP  | CRJ10DJ223T   | 1   |     |
| R474-477                | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E2, JP  | CRJ10DJ473T   | 4   |     |
| R479, 480               | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | E2, JP  | CRJ10DJ472T   | 2   |     |
| R481                    | nsp           | RES, CHIP(2012/5%/47ohm)                  | E2, JP  | CRJ18AJ470T   | 1   |     |
| R483                    | nsp           | RES, CHIP(2012/5%/47ohm)                  | E2, JP  | CRJ18AJ470T   | 1   |     |
| R485                    | nsp           | RES, CHIP(1005/5%/10Kohm)                 | E2, JP  | CRJ06J103T    | 1   |     |
| R486-489                | nsp           | RES, CHIP(2012/1%/5.6ohm)                 | E2, JP  | CRJ18AF5R60T  | 4   |     |
| R490                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E2, JP  | CRJ10DJ103T   | 1   |     |
| R600                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E2, JP  | CRJ10DJ101T   | 1   |     |
| R601                    | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E2, JP  | CRJ10DJ473T   | 1   |     |
| R602                    | nsp           | RES, CHIP(1608/1%/330Kohm)                | E2, JP  | CRJ10DF3303T  | 1   |     |
| R607, 608               | nsp           | RES, CHIP(1005/5%/4.7Kohm)                | E2, JP  | CRJ06J472T    | 2   |     |
| R610-612                | nsp           | RES, CHIP(1005/5%/10Kohm)                 | E2, JP  | CRJ06J103T    | 3   |     |
| R615                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 1   |     |
| R617-619                | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 3   |     |
| R621                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E2, JP  | CRJ06J0R0T    | 1   |     |
| R622-635                | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E2, JP  | CRJ10DJ103T   | 14  |     |
| R639                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E2, JP  | CRJ10DJ103T   | 1   |     |
| R646                    | nsp           | RES, CHIP(1608/5%/120Kohm)                | E2, JP  | CRJ10DJ124T   | 1   |     |
| R647                    | nsp           | RES, CHIP(1608/5%/2.2Kohm)                | E2, JP  | CRJ10DJ222T   | 1   |     |
| R648                    | nsp           | RES, CHIP(1608/5%/27Kohm)                 | E2, JP  | CRJ10DJ273T   | 1   |     |
| R649                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E2, JP  | CRJ10DJ101T   | 1   |     |
| R650-652                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E2, JP  | CRJ10DJ330T   | 3   |     |
| R653, 654               | nsp           | RES, CHIP(1608/5%/100ohm)                 | E2, JP  | CRJ10DJ101T   | 2   |     |
| R658                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R659                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E2, JP  | CRJ10DF3483T  | 1   |     |
| R660                    | nsp           | RES, CHIP(1608/0.5%/348Kohm)              | E2, JP  | CRJ10DD3483T  | 1   |     |
| R661                    | nsp           | RES, CHIP(1608/0.5%/110Kohm)              | E2, JP  | CRJ10DD1103T  | 1   |     |
| R662                    | nsp           | RES, CHIP(1608/5%/33ohm)                  | E2, JP  | CRJ10DJ330T   | 1   |     |
| R664                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R666                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R667-669                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E2, JP  | CRJ10DJ330T   | 3   |     |
| R670                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R680                    | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E2, JP  | CRJ10DJ473T   | 1   |     |
| R681                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R683, 684               | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 2   |     |
| R685                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E2, JP  | CRJ10DJ101T   | 1   |     |
| R690                    | nsp           | RES, CHIP(1608/5%/75Kohm)                 | E2, JP  | CRJ10DJ753T   | 1   |     |
| R693, 694               | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 2   |     |
| R695                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E2, JP  | CRJ10DF3483T  | 1   |     |
| R696                    | nsp           | RES, CHIP(1608/1%/76.8Kohm)               | E2, JP  | CRJ10DF7682T  | 1   |     |
| R697                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| R698                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E2, JP  | CRJ10DF3483T  | 1   |     |
| R699                    | nsp           | RES, CHIP(1608/1%/169Kohm)                | E2, JP  | CRJ10DF1693T  | 1   |     |
| R700                    | nsp           | RES, CHIP(1608/1%/2Kohm)                  | E2, JP  | CRJ10DF2001T  | 1   |     |
| R701-704                | nsp           | RES, CHIP(1608/5%/1Kohm)                  | E2, JP  | CRJ10DJ102T   | 4   |     |
| R705-708                | nsp           | RES, CHIP(1608/5%/100Kohm)                | E2, JP  | CRJ10DJ104T   | 4   |     |
| R710-713                | nsp           | RES, CHIP(1005/5%/100ohm)                 | E2, JP  | CRJ06J101T    | 4   |     |
| R720, 721               | nsp           | RES, CHIP(2012/5%/47ohm)                  | E2, JP  | CRJ18AJ470T   | 2   |     |
| RX91-94                 | nsp           | RES, CHIP(3216/5%/1.5Mohm)                | E2, JP  | CRJ14CJ155T   | 4   |     |
| <b>CAPACITORS GROUP</b> |               |                                           |         |               |     |     |
| C200-209                | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCU1E103KCS   | 10  |     |
| C210-221                | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCU1C104KCS   | 12  |     |
| C222                    | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E2, JP  | CCUS1H102KCS  | 1   |     |
| C223                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCUS1H104KCS  | 1   |     |
| C227-230                | nsp           | CAP, CHIP(1608, 16V/1uF, X7R) SAMSUNG     | E2, JP  | CCUS1C105KCS  | 4   |     |
| C231, 232               | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E2, JP  | CCUS1H101JAS  | 2   |     |
| C233-236                | nsp           | CAP, CHIP(1608, 50V/120pF, C0G) SAMSUNG   | E2, JP  | CCUS1H121JAS  | 4   |     |
| C237                    | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E2, JP  | CCUS1H101JAS  | 1   |     |
| C238-241                | nsp           | CAP, CHIP(1005, 50V/100pF, C0G) SAMSUNG   | E2, JP  | CCU1H101JAS   | 4   |     |
| C242, 243               | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E2, JP  | CCUS1H101JAS  | 2   |     |
| C244-246                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E2, JP  | CCUS1H102KCS  | 3   |     |
| C255-257                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 3   |     |
| C258                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| C259                    | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCU1E103KCS   | 1   |     |
| C260-265                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 6   |     |
| C266                    | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | E2, JP  | CCUS1H473KCS  | 1   |     |
| C267                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 1   |     |
| C269, 270               | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E2, JP  | CCUS1H102KCS  | 2   |     |
| C271                    | nsp           | CAP, CHIP(1608, 50V/560pF, C0G) SAMSUNG   | E2, JP  | CCUS1H561JAS  | 1   |     |
| C273-282                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCUS1H104KCS  | 10  |     |
| C283, 284               | nsp           | CAP, CHIP(1608, 50V/15pF, C0G) SAMSUNG    | E2, JP  | CCUS1H150JAS  | 2   |     |
| C285, 286               | nsp           | CAP, CHIP(1608, 50V/18pF, C0G) SAMSUNG    | E2, JP  | CCUS1H180JAS  | 2   |     |
| C287                    | nsp           | CAP, CHIP(1608, 50V/560pF, C0G) SAMSUNG   | E2, JP  | CCUS1H561JAS  | 1   |     |
| C288                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 1   |     |
| C289, 290               | nsp           | CAP, CHIP(1608, 50V/470pF, C0G) SAMSUNG   | E2, JP  | CCUS1H471JAS  | 2   |     |
| C291-294                | nsp           | CAP, CHIP(1608, 50V/4700pF, X7R) SAMSUNG  | E2, JP  | CCUS1H472KCS  | 4   |     |
| C295                    | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | E2, JP  | CCUS1H473KCS  | 1   |     |
| C297                    | nsp           | CAP, CHIP(1608, 50V/0.068uF, X7R) SAMSUNG | E2, JP  | CCUS1H683KCS  | 1   |     |
| C298-304                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E2, JP  | CCUS1H102KCS  | 7   |     |
| C305                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| C306-311                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E2, JP  | CCUS1H102KCS  | 6   |     |
| C315-323                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 9   |     |
| C324                    | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG  | E2, JP  | CCUS0J475KCS  | 1   |     |
| C325-328                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E2, JP  | CCUS1H103KCS  | 4   |     |
| C332-364                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCUS1H104KCS  | 33  |     |
| C365                    | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCU1C104KCS   | 1   |     |
| C366-368                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCUS1H104KCS  | 3   |     |
| C369                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E2, JP  | CRJ10DJ0R0T   | 1   |     |
| C370-372                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E2, JP  | CCUS1H104KCS  | 3   |     |
| C373                    | nsp           | CAP, CHIP(2012, 16V/10uF, X5R) SAMSUNG    | E2, JP  | CCUC1C106KCS  | 1   |     |
| C374                    | 943134503400D | CAP, ELECT(50V/2.2uF)-S                   | E2, JP  | CCEA1HKS2R2T  | 1   | *   |
| C375-377                | 943134503370D | CAP, ELECT(16V/10uF)-S                    | E2, JP  | CCEA1CKS100TC | 3   | *   |
| C378                    | 943134503390D | CAP, ELECT(16V/100uF)-S, 105°C            | E2, JP  | CCEA1CKS101TS | 1   | *   |
| C379, 380               | 00D2544577958 | CAP, ELECT(16V/220uF), ELNA/RA3           | E2, JP  | CCEA1CRA3221T | 2   |     |
| C381                    | 943134502040D | CAP, ELECT(16V/100uF)-S                   | E2, JP  | CCEA1CKS101TC | 1   |     |
| C382                    | 00D2544577958 | CAP, ELECT(16V/220uF), ELNA/RA3           | E2, JP  | CCEA1CRA3221T | 1   |     |
| C383                    | 943134010670S | CAP, ELECT(16V/47uF)-S                    | E2, JP  | CCEA1CKS470T  | 1   |     |
| C384, 385               | 943134503060S | CAP, SMD ELECT(16V/22uF)                  | E2, JP  | CCEC1CMVG220T | 2   |     |

|                   | REF No.     | Part No.      | Part Name                                         | Remarks | Q'ty           | New | Ver |
|-------------------|-------------|---------------|---------------------------------------------------|---------|----------------|-----|-----|
|                   | C386        | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E2, JP  | CCEA1CK5100TC  | 1   | *   |
|                   | C387        | 943134503400D | CAP, ELECT(50V/2.2uF)-S                           | E2, JP  | CCEA1HK52R2T   | 1   | *   |
|                   | C388        | 943134503380D | CAP, ELECT(16V/10uF)-S,105°C                      | E2, JP  | CCEA1CK5100TS  | 1   | *   |
|                   | C389,390    | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E2, JP  | CCEA1CK5100TC  | 2   | *   |
|                   | C391        | 00D2544577958 | CAP, ELECT(16V/220uF),ELNA/RA3                    | E2, JP  | CCEA1CRA3221T  | 1   |     |
|                   | C392        | 943134502580M | CAP, ELEC SMD(LOW ESR, 150UF/10V, ENESOL)         | E2, JP  | CCEC1AVS151TL  | 1   |     |
|                   | C393        | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E2, JP  | CCEC0JPVWZ221T | 1   |     |
|                   | C395,396    | 943134502560M | CAP,ALUMINUM ELECTROLYTIC (6.3V/220uF)            | E2, JP  | CCEC0JMMVG221T | 2   |     |
|                   | C397        | 943134502580M | CAP, ELEC SMD(LOW ESR, 150UF/10V, ENESOL)         | E2, JP  | CCEC1AVS151TL  | 1   |     |
|                   | C398        | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E2, JP  | CCEC0JPVWZ221T | 1   |     |
|                   | C400        | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E2, JP  | CCEC0JPVWZ221T | 1   |     |
|                   | C401        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C402        | nsp           | CAP, CHIP(1608, 16V/1uF, X7R) SAMSUNG             | E2, JP  | CCUS1C105KCS   | 1   |     |
|                   | C403        | 943134502590M | CAP,ALUMINUM ELECTROLYTIC CAPACITORS(16V/100uF)   | E2, JP  | CCEC1CMVG101T  | 1   |     |
|                   | C406        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E2, JP  | CCUS1H103KCS   | 1   |     |
|                   | C407        | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E2, JP  | CCEC0JPVWZ221T | 1   |     |
|                   | C408,409    | 943132500640M | CAP, CHIP(3216, 100V/0.01uF, MURATA GRM31)        | E2, JP  | CCUMUP2A103JAM | 2   |     |
|                   | C410-413    | nsp           | CAP,CHIP(1005, 50V/18pF, C0G) SAMSUNG             | E2, JP  | CCU11H180JAS   | 4   |     |
|                   | C430        | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E2, JP  | CCUS0J475KCS   | 1   |     |
|                   | C450,451    | 943132500640M | CAP, CHIP(3216, 100V/0.01uF, MURATA GRM31)        | E2, JP  | CCUMUP2A103JAM | 2   |     |
|                   | C600-611    | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 12  |     |
|                   | C612        | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG          | E2, JP  | CCU11E103KCS   | 1   |     |
|                   | C613,614    | nsp           | CAP, CHIP(1005, 50V/1000pF, X7R) SAMSUNG          | E2, JP  | CCU11H102KCS   | 2   |     |
|                   | C615,616    | nsp           | CAP, CHIP(1005, 50V/4700pF, X7R) SAMSUNG          | E2, JP  | CCU11H472KCS   | 2   |     |
|                   | C621-625    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E2, JP  | CCUS1H103KCS   | 5   |     |
|                   | C626        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E2, JP  | CCUS1H102KCS   | 1   |     |
|                   | C627-629    | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 3   |     |
|                   | C630,631    | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E2, JP  | CCUS1H102KCS   | 2   |     |
|                   | C632-637    | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E2, JP  | CCUS0J475KCS   | 6   |     |
|                   | C638        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C639        | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E2, JP  | CCUS0J475KCS   | 1   |     |
|                   | C640,641    | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 2   |     |
|                   | C642        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C643        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E2, JP  | CCUS1H103KCS   | 1   |     |
|                   | C644        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C648        | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E2, JP  | CCUS0J475KCS   | 1   |     |
|                   | C653,654    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 2   |     |
|                   | C655        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C656        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C658,659    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 2   |     |
|                   | C660        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E2, JP  | CCUS1H102KCS   | 1   |     |
|                   | C662        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C663,664    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 2   |     |
|                   | C665        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E2, JP  | CCUS1H102KCS   | 1   |     |
|                   | C666        | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E2, JP  | CCUS1H103KCS   | 1   |     |
|                   | C667        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C671        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C672        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E2, JP  | CCUS1A105KCS   | 1   |     |
|                   | C673        | nsp           | CAP, CHIP(1608, 50V/3.3pF, C0G) SAMSUNG           | E2, JP  | CCUS1H3R3JAS   | 1   |     |
|                   | C674        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C675        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C676        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C677        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C678        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C679        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E2, JP  | CCUS1A105KCS   | 1   |     |
|                   | C680        | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E2, JP  | CCUS1H050CAS   | 1   |     |
|                   | C681        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C682        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C683        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C684        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C685        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E2, JP  | CCUS1A105KCS   | 1   |     |
|                   | C686        | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E2, JP  | CCUS1H050CAS   | 1   |     |
|                   | C687        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C688        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C689        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C690        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C691        | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E2, JP  | CCUS1A105KCS   | 1   |     |
|                   | C692        | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E2, JP  | CCUS1H050CAS   | 1   |     |
|                   | C693        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C694        | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E2, JP  | CCEA1CK5100TC  | 1   | *   |
|                   | C695        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C696        | 00D9430173003 | CAP, ELECT(10V/220uF)-S                           | E2, JP  | CCEA1AKS221T   | 1   |     |
|                   | C697        | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 1   |     |
|                   | C698        | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E2, JP  | CCUC0J106KCS   | 1   |     |
|                   | C699-707    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 9   |     |
|                   | C708-711    | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 4   |     |
|                   | C712        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 1   |     |
|                   | C713        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C714,715    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCUS1H104KCS   | 2   |     |
|                   | C720-726    | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E2, JP  | CCUC0J226KCS   | 7   |     |
|                   | C732        | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E2, JP  | CCU11C104KCS   | 1   |     |
|                   | C733,734    | nsp           | CAP, CHIP(1005, 50V/1000pF)                       | E2, JP  | CCU11H102KC    | 2   |     |
| OTHER PARTS GROUP |             |               |                                                   |         |                |     |     |
|                   | BK61        | nsp           | BRACKET , PCB                                     | E2, JP  | CMD1A629       | 1   |     |
|                   | BK62        | nsp           | BRACKET , PCB M3                                  | E2, JP  | CMD1A834       | 1   |     |
|                   | BK63        | nsp           | BRACKET , NETWORK A                               | E2, JP  | CMD1A900       | 1   |     |
|                   | BN16        | nsp           | Wire ass'y ( 5P,80mm,2.0mm )                      | E2, JP  | CWB1B00508047  | 1   |     |
|                   | CN10        | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2mm               | E2, JP  | CJP05GI236ZW   | 1   |     |
|                   | CN62        | nsp           | LOCKING TYPE , STRAIGHT WAFER, 2.5MM              | E2, JP  | CJP03GI237ZW   | 1   |     |
|                   | CN63        | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2mm               | E2, JP  | CJP05GI236ZW   | 1   |     |
|                   | CN65        | nsp           | WAFER, FFC, SMD(07P-1mm, STRAIGHT)                | E2, JP  | CJP07GA193ZY   | 1   |     |
|                   | CN66,67     | nsp           | WAFER, 64pin ( 2 x 32 x 1.27mm) SMD TYPE          | E2, JP  | CJP64GA312ZP   | 2   |     |
|                   | CN90        | nsp           | WAFER, 2P, 3.96mm                                 | E2, JP  | CJP02KA060ZY   | 1   |     |
|                   | CN92        | nsp           | LOCK-WAFER/ANGLE/2.5MM PITCH/5PIN                 | E2, JP  | CJP05GJ289ZY   | 1   |     |
|                   | CN93        | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2MM               | E2, JP  | CJP13GI236ZW   | 1   |     |
| !                 | CX91        | 943134503220D | CAP , X2(275VAC, 0.22uF, 12mm, SEORYONG)          | E2, JP  | CCQF2E224KZFS  | 1   |     |
|                   | ET20,21     | nsp           | PLATE , EARTH(TRONIC ELECTRONICS)                 | E2, JP  | CJT1A026       | 2   |     |
| !                 | F901        | 943652500300M | FUSE, 215 SERIES, 4A, 250V                        | E2, JP  | CBA2C4000TLHEY | 1   |     |
|                   | FH91,92     | nsp           | HOLDER , FUSE                                     | E2, JP  | KJCFCS5        | 2   |     |
|                   | JK20        | 943643102900D | Terminal 2P Speaker( PUSH BK,RD )                 | E2, JP  | CJJ5N029Z      | 1   |     |
|                   | EXPLODED C5 | 943643102910D | Terminal 2P Speaker( PUSH RD,BK )                 | E2, JP  | CJJ5N028Z      | 1   |     |
|                   | JK21        | 943643103110D | JACK, RCA (3PIN, WH/RD/BK, Ni PLATE, VERTICAL)    | E2, JP  | CJJ4S058Z      | 1   | *   |
|                   | EXPLODED C6 | 943643102460D | JACK , USB ANGLE TYPE (BLACK 1.5A)                | E2, JP  | CJJ9X014Z      | 1   |     |
|                   | JK60        | 943643102430S | JACK , RJ-45 W/TRANSFORMER                        | E2, JP  | CJJ9L029Z      | 1   |     |
| !                 | JK90        | 943641500240D | INLET , AC , NON-POL (250V/2.5A PCB MOUNT TYPE)   | E2, JP  | CJJ8A019Z      | 1   |     |
|                   | JW20,21     | nsp           | SUPPORT , PCB                                     | E2, JP  | CDF1A035       | 2   |     |
|                   | EXPLODED M4 | nsp           | FERRITE CHIP BEAD(4516/60R)                       | E2, JP  | CLZ9Z014Z      | 1   |     |
|                   | L204        | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)                  | E2, JP  | CLZ9R001Z      | 4   |     |
|                   | L205-208    | nsp           | BEAD , FERRITE (FCM2012KF-121T08 , 120 OHM)       | E2, JP  | CLZ9R010Z      | 1   |     |
|                   | L209        | nsp           |                                                   | E2, JP  |                |     |     |

| REF No.  | Part No.      | Part Name                                  | Remarks |                | Q'ty | New | Ver |
|----------|---------------|--------------------------------------------|---------|----------------|------|-----|-----|
| L210-221 | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)           | E2, JP  | CLZ9R001Z      | 12   |     |     |
| L322     | nsp           | FERRITE CHIP BEAD(1608/60R, CB03YTYH600)   | E2, JP  | CLZ9R005V      | 1    |     |     |
| L341     | nsp           | FERRITE CHIP BEAD(1608/60R, CB03YTYH600)   | E2, JP  | CLZ9R005V      | 1    |     |     |
| L451-461 | nsp           | FERRITE CHIP BEAD(1608/60R, CB03YTYH600)   | E2, JP  | CLZ9R005V      | 11   |     |     |
| L600,601 | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)           | E2, JP  | CLZ9R001Z      | 2    |     |     |
| L602     | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)  | E2, JP  | CLZ9R018V      | 1    |     |     |
| L603     | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)           | E2, JP  | CLZ9R001Z      | 1    |     |     |
| L604     | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)  | E2, JP  | CLZ9R018V      | 1    |     |     |
| L605-609 | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)           | E2, JP  | CLZ9R001Z      | 5    |     |     |
| L610,611 | nsp           | COMMON MODE FILTER (2012, 90ohm)           | E2, JP  | CLZ9Z174Z      | 2    |     |     |
| L614     | nsp           | FERRITE CHIP BEAD(4516/60R)                | E2, JP  | CLZ9Z014Z      | 1    |     |     |
| L615,616 | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)  | E2, JP  | CLZ9R018V      | 2    |     |     |
| L617-619 | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)           | E2, JP  | CLZ9R001Z      | 3    |     |     |
| LF91     | 943111100490M | FILTER , LINE(DMC250)                      | E2, JP  | CLZ9Z087Z      | 1    |     |     |
| LF92     | nsp           | LINE, FILTER(5.0A/5.0mH)                   | E2, JP  | CLZ9Z158Z      | 1    |     |     |
| PF12     | nsp           | WAFER, FFC(27P-1.25mm, STRAIGHT)           | E2, JP  | CJP27GA115ZY   | 1    |     |     |
| PF15     | nsp           | WAFER, FFC, SMD(11P-1mm, STRAIGHT)         | E2, JP  | CJP11GA193ZY   | 1    |     |     |
| PF60     | nsp           | WAFER, FFC(25P-1mm, STRAIGHT)              | E2, JP  | CJP25GA117ZY   | 1    |     |     |
| PF70,71  | nsp           | FEMALE HEADER (6P,2.54mm) , STRAIGHT TYPE  | E2, JP  | CJP06GA221ZB   | 2    |     |     |
| PF72     | nsp           | FEMALE HEADER (12P,2.54mm) , STRAIGHT TYPE | E2, JP  | CJP12GA221ZB   | 1    |     |     |
| PF80     | nsp           | WAFER, FFC(19P-1mm, STRAIGHT)              | E2, JP  | CJP19GA117ZY   | 1    |     |     |
| SW60     | 943662100180M | SW, TACT, VERTICAL (3.3mm)                 | E2, JP  | CST1A032ZT     | 1    |     |     |
| VT91     | 943251100070M | VARISTOR(560V, 14mm)                       | E2, JP  | CRV5VC561D14A  | 1    |     |     |
| WF22     | nsp           | WAFER, FFC, SMD(07P-1mm, STRAIGHT)         | E2, JP  | CJP07GA193ZY   | 1    |     |     |
| WF23     | nsp           | WAFER, FFC, SMD(4pin, 1mm, STRAIGHT)       | E2, JP  | CJP04GA193ZY   | 1    |     |     |
| WF60     | nsp           | WAFER, FFC(25P-1mm, STRAIGHT)              | E2, JP  | CJP25GA117ZY   | 1    |     |     |
| X200     | 943141100610S | X-TAL, SMD 3.2X2.5, 12.000MHz, 10PF        | E2, JP  | COX120001100ST | 1    |     |     |
| X201     | 943141100620S | X-TAL, SMD 3.2X2.5, 24.576MHz, 12PF        | E2, JP  | COX245761120ST | 1    |     |     |

## MAIN For E1C PCB ASS'Y

※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. &amp; Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model WT : White model

| REF No.                     | Part No.      | Part Name                                                                                             | Remarks | Q'ty              | New | Ver |
|-----------------------------|---------------|-------------------------------------------------------------------------------------------------------|---------|-------------------|-----|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                                                                                                       |         |                   |     |     |
| D201-210                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E1C     | CVD1SS355T        | 10  |     |
| D212,213                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E1C     | CVD1SS355T        | 2   |     |
| D214,215                    | 90M-HD201820R | DIODE, SCHOTTKY BARRIER                                                                               | E1C     | HVDRB160L60TE25   | 2   |     |
| D216,217                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E1C     | CVD1SS355T        | 2   |     |
| D218                        | 90M-HD201820R | DIODE, SCHOTTKY BARRIER                                                                               | E1C     | HVDRB160L60TE25   | 1   |     |
| D219                        | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E1C     | CVD1SS355T        | 1   |     |
| D601-604                    | 943209001080S | DIODE , CHIP , SWITCHING                                                                              | E1C     | CVD1SS355T        | 4   |     |
| IC20                        | 943239101590D | I.C , Audio Switch Stereo(TVSP10)                                                                     | E1C     | CVINJM2752RB2     | 1   |     |
| IC21                        | 943234009290S | I.C , RESET 2.4V (200ms,C-MOS,SOT23-5P)                                                               | E1C     | CVIS80124CLMCJJIJ | 1   |     |
| IC22                        | 23681014050AS | I.C , DIR/DIT(WITH ADC,LQFP-48P)                                                                      | E1C     | CVIPCM9211PTR     | 1   |     |
| IC23                        | 943239101600D | I.C , PWM PROCESSOR(HTSSOP-56P)                                                                       | E1C     | CVITAS5558DCAR    | 1   |     |
| IC24                        | 943235100670M | I.C , OP AMP                                                                                          | E1C     | HVINJM4556AMTE1   | 1   |     |
| IC25                        | 00MHC10102090 | I.C , OP AMP (JRC)                                                                                    | E1C     | HVINJM2068MDTE1   | 1   |     |
| IC26                        | 943239101500S | I.C , EEPROM(128KBIT,SOP-8P)                                                                          | E1C     | CVIR1EX24128BSA   | 1   |     |
| IC27                        | 943239101610D | I.C, REGULATOR(3.3V, TO-252-5, Io=1.5A, LDO)                                                          | E1C     | CVINJM2857DL3-33  | 1   |     |
| IC28                        | -             | I.C, CPU(2M/PLOP0144KA-A)                                                                             | E1C     | CVIR5F56108VNF    | 1   |     |
| IC28                        | 943243102690S | I.C,MAIN MCU(DRA-N4,RCD-N9),2M/PLOP0144KA-A<br>See Procedure after Replacing the Microprocessor, etc. | E1C     | CVIANAM2033CR     | 1   |     |
| IC29                        | 943239010400S | I.C, REGULATOR(3.3V/TO-252)                                                                           | E1C     | CVINJM2845DL133   | 1   |     |
| IC30                        | 963248103120S | GD25Q32B 32Mbit SOP8 SERIAL FLASH                                                                     | E1C     | 8952600500100     | 1   |     |
| IC60                        | 943239001120S | IC , CURRENT LIMITER                                                                                  | E1C     | CVIRT9702APB      | 1   |     |
| IC61                        | 23671011050AS | I.C , IPOD AUTHENTICATION FROM D&M                                                                    | E1C     | CVI23671011050AS  | 1   |     |
| IC62                        | 943606502150M | I.C , USB SWITCH(DUAL SPDT,UQFN10)                                                                    | E1C     | CVITC7USB40MU     | 1   |     |
| IC63-66                     | 943239101070S | I.C , DC-DC CONVERTER (3A, QFN T&R-24P)                                                               | E1C     | CVIENS339QI       | 4   |     |
| IC67                        | 24681009260AS | I.C , SERIAL FLASH(256M,SOP-16)                                                                       | E1C     | CVIMX25L25635FMI  | 1   |     |
| Q200,201                    | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E1C     | CVTRT1P141C       | 2   |     |
| Q203                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E1C     | CVTRT1P141C       | 1   |     |
| Q204,205                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E1C     | CVTRT1N141C       | 2   |     |
| Q206,207                    | 963216500060S | T.R,RT1N144C(10K-47K)                                                                                 | E1C     | CVTRT1N144C       | 2   |     |
| Q208                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E1C     | CVTRT1P141C       | 1   |     |
| Q211-216                    | 00D9430072502 | T.R , CHIP , SOT-23                                                                                   | E1C     | HVTKTC2875B       | 6   |     |
| Q218                        | 943222500300S | FET, BSS138BK, N-CH, TO-236AB, NXP                                                                    | E1C     | CVTBSS138BK       | 1   |     |
| Q219-221                    | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E1C     | CVTRT1P141C       | 3   |     |
| Q222                        | 943229500160D | FET, FDN360P, P-CH, SOT-23, FAIRCHILD                                                                 | E1C     | CVTFDN360P        | 1   |     |
| Q223-226                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E1C     | CVTRT1N141C       | 4   |     |
| Q228-231                    | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E1C     | CVTRT1N141C       | 4   |     |
| Q232                        | 943215500020S | T.R,RT1P141C(10K-10K)                                                                                 | E1C     | CVTRT1P141C       | 1   |     |
| Q233                        | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E1C     | CVTRT1N141C       | 1   |     |
| Q680                        | 943216500020S | T.R,RT1N141C(10K-10K)                                                                                 | E1C     | CVTRT1N141C       | 1   |     |
| Q681                        | 943229500020S | MOSFET,TPC6111(P-CH,U-MOSV)                                                                           | E1C     | CVTTPC6111        | 1   |     |
| <b>RESISTOR GROUP</b>       |               |                                                                                                       |         |                   |     |     |
| R200-203                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 4   |     |
| R204-209                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 6   |     |
| R210                        | nsp           | RES, CHIP(1005/5%/4.7Kohm)                                                                            | E1C     | CRJ06I472T        | 1   |     |
| R211                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R212,213                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 2   |     |
| R214                        | nsp           | RES, CHIP(1005/5%/22Kohm)                                                                             | E1C     | CRJ06I223T        | 1   |     |
| R215-220                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 6   |     |
| R221-229                    | nsp           | RES, CHIP(1005/5%/100Kohm)                                                                            | E1C     | CRJ06I104T        | 9   |     |
| R230                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R231                        | nsp           | RES, CHIP(1005/5%/15Kohm)                                                                             | E1C     | CRJ06I153T        | 1   |     |
| R232                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R235                        | nsp           | RES, CHIP(2012/5%/18ohm)                                                                              | E1C     | CRJ18AJ180T       | 1   |     |
| R236-238                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 3   |     |
| R240,241                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 2   |     |
| R243,244                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 2   |     |
| R246-254                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 9   |     |
| R256                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R257                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R260-262                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 3   |     |
| R263                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 1   |     |
| R264,265                    | nsp           | RES, CHIP(1005/5%/1Kohm)                                                                              | E1C     | CRJ06I102T        | 2   |     |
| R267                        | nsp           | RES, CHIP(1005/5%/100ohm)                                                                             | E1C     | CRJ06I101T        | 1   |     |
| R269-271                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 3   |     |
| R273-277                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 5   |     |
| R278,279                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 2   |     |
| R280                        | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 1   |     |
| R281-283                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 3   |     |
| R284,285                    | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E1C     | CRJ10DJ102T       | 2   |     |
| R286-289                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 4   |     |
| R290-293                    | nsp           | RES, CHIP(1608/5%/4.7Kohm)                                                                            | E1C     | CRJ10DJ472T       | 4   |     |
| R294-297                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 4   |     |
| R299-304                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 6   |     |
| R312                        | nsp           | RES, CHIP(1608/5%/1Mohm)                                                                              | E1C     | CRJ10DJ105T       | 1   |     |
| R313-316                    | nsp           | RES, CHIP(1608/5%/15Kohm)                                                                             | E1C     | CRJ10DJ153T       | 4   |     |
| R317                        | nsp           | RES, CHIP(1608/5%/100Kohm)                                                                            | E1C     | CRJ10DJ104T       | 1   |     |
| R318,319                    | nsp           | RES, CHIP(1608/5%/150Kohm)                                                                            | E1C     | CRJ10DJ154T       | 2   |     |
| R320                        | nsp           | RES, CHIP(1608/5%/1ohm)                                                                               | E1C     | CRJ10DJ1R0T       | 1   |     |
| R321                        | nsp           | RES, CHIP(1608/5%/3.3ohm)                                                                             | E1C     | CRJ10DJ3R3T       | 1   |     |
| R323                        | nsp           | RES, CHIP(1005/5%/8.2Kohm)                                                                            | E1C     | CRJ06I822T        | 1   |     |
| R324                        | nsp           | RES, CHIP(1005/5%/47Kohm)                                                                             | E1C     | CRJ06I473T        | 1   |     |
| R326-336                    | nsp           | RES, CHIP(1005/5%/4.7Kohm)                                                                            | E1C     | CRJ06I472T        | 11  |     |
| R337-340                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 4   |     |
| R342                        | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 1   |     |
| R343                        | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 1   |     |
| R344-348                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 5   |     |
| R349-354                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 6   |     |
| R355                        | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E1C     | CRJ10DJ0R0T       | 1   |     |
| R358-361                    | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E1C     | CRJ10DJ0R0T       | 4   |     |
| R362-364                    | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 3   |     |
| R365,366                    | nsp           | RES, CHIP(1005/5%/0ohm)                                                                               | E1C     | CRJ06J0R0T        | 2   |     |
| R367,368                    | nsp           | RES, CHIP(1005/5%/33ohm)                                                                              | E1C     | CRJ06I330T        | 2   |     |
| R369                        | nsp           | RES, CHIP(1608/5%/0ohm)                                                                               | E1C     | CRJ10DJ0R0T       | 1   |     |
| R370                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 1   |     |
| R371                        | nsp           | RES, CHIP(1005/5%/10Kohm)                                                                             | E1C     | CRJ06I103T        | 1   |     |
| R377,378                    | nsp           | RES, CHIP(6432/5%/1Kohm)                                                                              | E1C     | CRJ01HJ102T       | 2   |     |
| R379,380                    | nsp           | RES, CHIP(6432/5%/100ohm)                                                                             | E1C     | CRJ01HJ101T       | 2   |     |
| R382                        | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 1   |     |
| R384-386                    | nsp           | RES, CHIP(1608/5%/10Kohm)                                                                             | E1C     | CRJ10DJ103T       | 3   |     |
| R401,402                    | nsp           | RES, CHIP(2012/5%/10ohm)                                                                              | E1C     | CRJ18AJ100T       | 2   |     |
| R403,404                    | nsp           | RES, CHIP(2012/5%/47ohm)                                                                              | E1C     | CRJ18AJ470T       | 2   |     |
| R405                        | nsp           | RES, CHIP(1608/5%/100ohm)                                                                             | E1C     | CRJ10DJ101T       | 1   |     |
| R406,407                    | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E1C     | CRJ10DJ102T       | 2   |     |
| R408                        | nsp           | RES, CHIP(1005/5%/1Kohm)                                                                              | E1C     | CRJ06I102T        | 1   |     |
| R409                        | nsp           | RES, CHIP(1608/5%/1Kohm)                                                                              | E1C     | CRJ10DJ102T       | 1   |     |

| REF No.                 | Part No.      | Part Name                                 | Remarks | Q'ty          | New | Ver |
|-------------------------|---------------|-------------------------------------------|---------|---------------|-----|-----|
| R410-416                | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | E1C     | CRJ10DJ472T   | 7   |     |
| R417-420                | nsp           | RES, CHIP(1608/5%/3.3Kohm)                | E1C     | CRJ10DJ332T   | 4   |     |
| R421-422                | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | E1C     | CRJ10DJ472T   | 2   |     |
| R423-424                | nsp           | RES, CHIP(1608/5%/470ohm)                 | E1C     | CRJ10DJ471T   | 2   |     |
| R425-431                | nsp           | RES, CHIP(1608/5%/47ohm)                  | E1C     | CRJ10DJ470T   | 7   |     |
| R432                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E1C     | CRJ10DJ103T   | 1   |     |
| R433-436                | nsp           | RES, CHIP(1608/5%/27Kohm)                 | E1C     | CRJ10DJ273T   | 4   |     |
| R439-446                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E1C     | CRJ10DJ330T   | 8   |     |
| R447-448                | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E1C     | CRJ10DJ223T   | 2   |     |
| R449                    | nsp           | RES, CHIP(1608/5%/100Kohm)                | E1C     | CRJ10DJ104T   | 1   |     |
| R450                    | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E1C     | CRJ10DJ223T   | 1   |     |
| R451                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 1   |     |
| R462                    | nsp           | RES, CHIP(1608/1%/18Kohm)                 | E1C     | CRJ10DF1802T  | 1   |     |
| R463-464                | nsp           | RES, CHIP(2012/5%/10ohm)                  | E1C     | CRJ18AJ100T   | 2   |     |
| R465                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 1   |     |
| R466-467                | nsp           | RES, CHIP(1005/5%/33ohm)                  | E1C     | CRJ06J330T    | 2   |     |
| R469                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 1   |     |
| R470                    | nsp           | RES, CHIP(1608/5%/680ohm)                 | E1C     | CRJ10DJ681T   | 1   |     |
| R471                    | nsp           | RES, CHIP(1608/5%/22Kohm)                 | E1C     | CRJ10DJ223T   | 1   |     |
| R474-477                | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E1C     | CRJ10DJ473T   | 4   |     |
| R479-480                | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | E1C     | CRJ10DJ472T   | 2   |     |
| R481                    | nsp           | RES, CHIP(2012/5%/47ohm)                  | E1C     | CRJ18AJ470T   | 1   |     |
| R483                    | nsp           | RES, CHIP(2012/5%/47ohm)                  | E1C     | CRJ18AJ470T   | 1   |     |
| R485                    | nsp           | RES, CHIP(1005/5%/10Kohm)                 | E1C     | CRJ06J103T    | 1   |     |
| R486-489                | nsp           | RES, CHIP(2012/1%/5.6ohm)                 | E1C     | CRJ18AF5R60T  | 4   |     |
| R490                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E1C     | CRJ10DJ103T   | 1   |     |
| R600                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E1C     | CRJ10DJ101T   | 1   |     |
| R601                    | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E1C     | CRJ10DJ473T   | 1   |     |
| R602                    | nsp           | RES, CHIP(1608/1%/330Kohm)                | E1C     | CRJ10DF3303T  | 1   |     |
| R607-608                | nsp           | RES, CHIP(1005/5%/4.7Kohm)                | E1C     | CRJ06J472T    | 2   |     |
| R610-612                | nsp           | RES, CHIP(1005/5%/10Kohm)                 | E1C     | CRJ06J103T    | 3   |     |
| R615                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 1   |     |
| R617-619                | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 3   |     |
| R621                    | nsp           | RES, CHIP(1005/5%/0ohm)                   | E1C     | CRJ06J0R0T    | 1   |     |
| R622-635                | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E1C     | CRJ10DJ103T   | 14  |     |
| R639                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | E1C     | CRJ10DJ103T   | 1   |     |
| R646                    | nsp           | RES, CHIP(1608/5%/120Kohm)                | E1C     | CRJ10DJ124T   | 1   |     |
| R647                    | nsp           | RES, CHIP(1608/5%/2.2Kohm)                | E1C     | CRJ10DJ222T   | 1   |     |
| R648                    | nsp           | RES, CHIP(1608/5%/27Kohm)                 | E1C     | CRJ10DJ273T   | 1   |     |
| R649                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E1C     | CRJ10DJ101T   | 1   |     |
| R650-652                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E1C     | CRJ10DJ330T   | 3   |     |
| R653-654                | nsp           | RES, CHIP(1608/5%/100ohm)                 | E1C     | CRJ10DJ101T   | 2   |     |
| R658                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R659                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E1C     | CRJ10DF3483T  | 1   |     |
| R660                    | nsp           | RES, CHIP(1608/0.5%/348Kohm)              | E1C     | CRJ10DD3483T  | 1   |     |
| R661                    | nsp           | RES, CHIP(1608/0.5%/110Kohm)              | E1C     | CRJ10DD1103T  | 1   |     |
| R662                    | nsp           | RES, CHIP(1608/5%/33ohm)                  | E1C     | CRJ10DJ330T   | 1   |     |
| R664                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R666                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R667-669                | nsp           | RES, CHIP(1608/5%/33ohm)                  | E1C     | CRJ10DJ330T   | 3   |     |
| R670                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R680                    | nsp           | RES, CHIP(1608/5%/47Kohm)                 | E1C     | CRJ10DJ473T   | 1   |     |
| R681                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R683-684                | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 2   |     |
| R685                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | E1C     | CRJ10DJ101T   | 1   |     |
| R690                    | nsp           | RES, CHIP(1608/5%/75Kohm)                 | E1C     | CRJ10DJ753T   | 1   |     |
| R693-694                | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 2   |     |
| R695                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E1C     | CRJ10DF3483T  | 1   |     |
| R696                    | nsp           | RES, CHIP(1608/1%/76.8Kohm)               | E1C     | CRJ10DF7682T  | 1   |     |
| R697                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| R698                    | nsp           | RES, CHIP(1608/1%/348Kohm)                | E1C     | CRJ10DF3483T  | 1   |     |
| R699                    | nsp           | RES, CHIP(1608/1%/169Kohm)                | E1C     | CRJ10DF1693T  | 1   |     |
| R700                    | nsp           | RES, CHIP(1608/1%/2Kohm)                  | E1C     | CRJ10DF2001T  | 1   |     |
| R701-704                | nsp           | RES, CHIP(1608/5%/1Kohm)                  | E1C     | CRJ10DJ102T   | 4   |     |
| R705-708                | nsp           | RES, CHIP(1608/5%/100Kohm)                | E1C     | CRJ10DJ104T   | 4   |     |
| R710-713                | nsp           | RES, CHIP(1005/5%/100ohm)                 | E1C     | CRJ06J101T    | 4   |     |
| R720-721                | nsp           | RES, CHIP(2012/5%/47ohm)                  | E1C     | CRJ18AJ470T   | 2   |     |
| RX91-94                 | 943129501060S | RES, CHIP(3216/5%/1.5Mohm)                | E1C     | CRJ14CJ155T   | 4   |     |
| <b>CAPACITORS GROUP</b> |               |                                           |         |               |     |     |
| C200-209                | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG  | E1C     | CCU1E103KCS   | 10  |     |
| C210-221                | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG   | E1C     | CCU1C104KCS   | 12  |     |
| C222                    | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E1C     | CCUS1H102KCS  | 1   |     |
| C223                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E1C     | CCUS1H104KCS  | 1   |     |
| C227-230                | nsp           | CAP, CHIP(1608, 16V/1uF, X7R) SAMSUNG     | E1C     | CCUS1C105KCS  | 4   |     |
| C231-232                | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E1C     | CCUS1H101JAS  | 2   |     |
| C233-236                | nsp           | CAP, CHIP(1608, 50V/120pF, C0G) SAMSUNG   | E1C     | CCUS1H121JAS  | 4   |     |
| C237                    | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E1C     | CCUS1H101JAS  | 1   |     |
| C238-241                | nsp           | CAP, CHIP(1005, 50V/100pF, C0G) SAMSUNG   | E1C     | CCU1H101JAS   | 4   |     |
| C242-243                | nsp           | CAP, CHIP(1608, 50V/100pF, C0G) SAMSUNG   | E1C     | CCUS1H101JAS  | 2   |     |
| C244-246                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E1C     | CCUS1H102KCS  | 3   |     |
| C255-257                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 3   |     |
| C258                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| C259                    | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG  | E1C     | CCU1E103KCS   | 1   |     |
| C260-265                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 6   |     |
| C266                    | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | E1C     | CCUS1H473KCS  | 1   |     |
| C267                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 1   |     |
| C269-270                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E1C     | CCUS1H102KCS  | 2   |     |
| C271                    | nsp           | CAP, CHIP(1608, 50V/560pF, C0G) SAMSUNG   | E1C     | CCUS1H561JAS  | 1   |     |
| C273-282                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E1C     | CCUS1H104KCS  | 10  |     |
| C283-284                | nsp           | CAP, CHIP(1608, 50V/15pF, C0G) SAMSUNG    | E1C     | CCUS1H150JAS  | 2   |     |
| C285-286                | nsp           | CAP, CHIP(1608, 50V/18pF, C0G) SAMSUNG    | E1C     | CCUS1H180JAS  | 2   |     |
| C287                    | nsp           | CAP, CHIP(1608, 50V/560pF, C0G) SAMSUNG   | E1C     | CCUS1H561JAS  | 1   |     |
| C288                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 1   |     |
| C289-290                | nsp           | CAP, CHIP(1608, 50V/470pF, C0G) SAMSUNG   | E1C     | CCUS1H471JAS  | 2   |     |
| C291-294                | nsp           | CAP, CHIP(1608, 50V/4700pF, X7R) SAMSUNG  | E1C     | CCUS1H472KCS  | 4   |     |
| C295                    | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | E1C     | CCUS1H473KCS  | 1   |     |
| C297                    | nsp           | CAP, CHIP(1608, 50V/0.068uF, X7R) SAMSUNG | E1C     | CCUS1H683KCS  | 1   |     |
| C298-304                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E1C     | CCUS1H102KCS  | 7   |     |
| C305                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| C306-311                | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | E1C     | CCUS1H102KCS  | 6   |     |
| C315-323                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 9   |     |
| C324                    | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG  | E1C     | CCUSQJ475KCS  | 1   |     |
| C325-328                | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | E1C     | CCUS1H103KCS  | 4   |     |
| C332-364                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E1C     | CCUS1H104KCS  | 33  |     |
| C365                    | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG   | E1C     | CCU1C104KCS   | 1   |     |
| C366-368                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E1C     | CCUS1H104KCS  | 3   |     |
| C369                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | E1C     | CRJ10DJ0R0T   | 1   |     |
| C370-372                | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | E1C     | CCUS1H104KCS  | 3   |     |
| C373                    | nsp           | CAP, CHIP(2012, 16V/10uF, X5R) SAMSUNG    | E1C     | CCUC1C106KCS  | 1   |     |
| C374                    | 943134503400D | CAP, ELECT(50V/2.2uF)-S                   | E1C     | CCEA1HKS2R2T  | 1   |     |
| C375-377                | 943134503370D | CAP, ELECT(16V/10uF)-S                    | E1C     | CCEA1CKS100TC | 3   |     |
| C378                    | 943134503390D | CAP, ELECT(16V/100uF)-S,105°C             | E1C     | CCEA1CKS101TS | 1   |     |
| C379-380                | 00D2544577958 | CAP, ELECT(16V/220uF),ELNA/RA3            | E1C     | CCEA1CRA3221T | 2   |     |



| REF No.           | Part No.      | Part Name                                         | Remarks | Q'ty             | New | Ver |
|-------------------|---------------|---------------------------------------------------|---------|------------------|-----|-----|
| C381              | 943134502040D | CAP, ELECT(16V/100uF)-S                           | E1C     | CCEA1CK5101TC    | 1   |     |
| C382              | 00D2544577958 | CAP, ELECT(16V/220uF), ELNA/RA3                   | E1C     | CCEA1CRA3221T    | 1   |     |
| C383              | nsp           | CAP, ELECT(16V/47uF)-S                            | E1C     | CCEA1CK5470T     | 1   |     |
| C384,385          | nsp           | CAP, SMD ELECT(16V/22uF)                          | E1C     | CCEC1CMVG220T    | 2   |     |
| C386              | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E1C     | CCEA1CK5100TC    | 1   |     |
| C387              | 943134503400D | CAP, ELECT(50V/2.2uF)-S                           | E1C     | CCEA1HKS2R2T     | 1   |     |
| C388              | 943134503380D | CAP, ELECT(16V/10uF)-S,105°C                      | E1C     | CCEA1CK5100TS    | 1   |     |
| C389,390          | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E1C     | CCEA1CK5100TC    | 2   |     |
| C391              | 00D2544577958 | CAP, ELECT(16V/220uF), ELNA/RA3                   | E1C     | CCEA1CRA3221T    | 1   |     |
| C392              | 943134502580M | CAP, ELEC SMD(LOW ESR, 150UF/10V, ENESOL)         | E1C     | CCEC1AVS151TL    | 1   |     |
| C393              | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E1C     | CCEC0JPVWZ221T3  | 1   |     |
| C395,396          | nsp           | CAP,ALUMINUM ELECTROLYTIC (6.3V/220uF)            | E1C     | CCEC0JMYG221T    | 2   |     |
| C397              | 943134502580M | CAP, ELEC SMD(LOW ESR, 150UF/10V, ENESOL)         | E1C     | CCEC1AVS151TL    | 1   |     |
| C398              | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E1C     | CCEC0JPVWZ221T3  | 1   |     |
| C400              | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E1C     | CCEC0JPVWZ221T3  | 1   |     |
| C401              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C402              | nsp           | CAP, CHIP(1608, 16V/1uF, X7R) SAMSUNG             | E1C     | CCUS1C105KCS     | 1   |     |
| C403              | nsp           | CAP,ALUMINUM ELECTROLYTIC CAPACITORS(16V/100uF)   | E1C     | CCEC1CMVG101T    | 1   |     |
| C406              | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E1C     | CCUS1H103KCS     | 1   |     |
| C407              | 943134502570M | CAP, ELEC SMD(6.3V/220uF, PVVZ Series, ESR,105°C) | E1C     | CCEC0JPVWZ221T3  | 1   |     |
| C408,409          | nsp           | CAP, CHIP(3216, 100V/0.01uF, MURATA GRM31)        | E1C     | CCUMUP2A103JAM   | 2   |     |
| C410-413          | nsp           | CAP, CHIP(1005, 50V/18pF, C0G) SAMSUNG            | E1C     | CCU1H180JAS      | 4   |     |
| C430              | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E1C     | CCUS0J475KCS     | 1   |     |
| C450,451          | nsp           | CAP, CHIP(3216, 100V/0.01uF, MURATA GRM31)        | E1C     | CCUMUP2A103JAM   | 2   |     |
| C600-611          | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 12  |     |
| C612              | nsp           | CAP, CHIP(1005, 25V/0.01uF, X7R) SAMSUNG          | E1C     | CCU1E103KCS      | 1   |     |
| C613,614          | nsp           | CAP, CHIP(1005, 50V/1000pF, X7R) SAMSUNG          | E1C     | CCU1H102KCS      | 2   |     |
| C615,616          | nsp           | CAP, CHIP(1005, 50V/4700pF, X7R) SAMSUNG          | E1C     | CCU1H472KCS      | 2   |     |
| C621-625          | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E1C     | CCUS1H103KCS     | 5   |     |
| C626              | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E1C     | CCUS1H102KCS     | 1   |     |
| C627-629          | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 3   |     |
| C630,631          | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E1C     | CCUS1H102KCS     | 2   |     |
| C632-637          | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E1C     | CCUS0J475KCS     | 6   |     |
| C638              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C639              | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E1C     | CCUS0J475KCS     | 1   |     |
| C640,641          | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 2   |     |
| C642              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C643              | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E1C     | CCUS1H103KCS     | 1   |     |
| C644              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C648              | nsp           | CAP, CHIP(1608, 6.3V/4.7uF, X5R) SAMSUNG          | E1C     | CCUS0J475KCS     | 1   |     |
| C653,654          | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 2   |     |
| C655              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C656              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C658,659          | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 2   |     |
| C660              | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E1C     | CCUS1H102KCS     | 1   |     |
| C662              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C663,664          | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 2   |     |
| C665              | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG          | E1C     | CCUS1H102KCS     | 1   |     |
| C666              | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG          | E1C     | CCUS1H103KCS     | 1   |     |
| C667              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C671              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C672              | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E1C     | CCUS1A105KCS     | 1   |     |
| C673              | nsp           | CAP, CHIP(1608, 50V/3.3pF, C0G) SAMSUNG           | E1C     | CCUS1H3R3JAS     | 1   |     |
| C674              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C675              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C676              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C677              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C678              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C679              | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E1C     | CCUS1A105KCS     | 1   |     |
| C680              | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E1C     | CCUS1H050CAS     | 1   |     |
| C681              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C682              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C683              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C684              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C685              | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E1C     | CCUS1A105KCS     | 1   |     |
| C686              | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E1C     | CCUS1H050CAS     | 1   |     |
| C687              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C688              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C689              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C690              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C691              | nsp           | CAP, CHIP(1608, 10V/1uF, X7R, X7S) SAMSUNG        | E1C     | CCUS1A105KCS     | 1   |     |
| C692              | nsp           | CAP, CHIP(1608, 50V/5pF, C0G) SAMSUNG             | E1C     | CCUS1H050CAS     | 1   |     |
| C693              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C694              | 943134503370D | CAP, ELECT(16V/10uF)-S                            | E1C     | CCEA1CK5100TC    | 1   |     |
| C695              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C696              | nsp           | CAP, ELECT(10V/220uF)-S                           | E1C     | CCEA1AKS221T     | 1   |     |
| C697              | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 1   |     |
| C698              | nsp           | CAP, CHIP(2012, 6.3V/10uF, X5R) SAMSUNG           | E1C     | CCUC0J106KCS     | 1   |     |
| C699-707          | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 9   |     |
| C708-711          | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 4   |     |
| C712              | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 1   |     |
| C713              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C714,715          | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG           | E1C     | CCUS1H104KCS     | 2   |     |
| C720-726          | nsp           | CAP, CHIP(2012, 6.3V/22uF, X5R) SAMSUNG           | E1C     | CCUC0J226KCS     | 7   |     |
| C732              | nsp           | CAP, CHIP(1005, 16V/0.1uF, X7R) SAMSUNG           | E1C     | CCU1C104KCS      | 1   |     |
| C733,734          | nsp           | CAP, CHIP(1005, 50V/1000pF)                       | E1C     | CCU1H102KC       | 2   |     |
| OTHER PARTS GROUP |               |                                                   |         |                  |     |     |
| BK61              | nsp           | BRACKET , PCB                                     | E1C     | CMD1A629         | 1   |     |
| BK62              | nsp           | BRACKET , PCB M3                                  | E1C     | CMD1A834         | 1   |     |
| BK63              | nsp           | BRACKET , NETWORK A                               | E1C     | CMD1A900         | 1   |     |
| BN16              | nsp           | WIRE ASS'Y (5PIN, P=2mm, 80mm, STRAIGHT, SHIELD)  | E1C     | CWB1B0050804700T | 1   | *   |
| CN10              | nsp           | LOCKING TYPE , STRAIGHT WAFER, 2mm                | E1C     | CJP05GI236ZW     | 1   |     |
| CN62              | nsp           | LOCKING TYPE , STRAIGHT WAFER, 2.5MM              | E1C     | CJP03GI237ZW     | 1   |     |
| CN63              | nsp           | LOCKING TYPE , STRAIGHT WAFER, 2mm                | E1C     | CJP05GI236ZW     | 1   |     |
| CN65              | nsp           | WAFER, FCC, SMD(07P-1mm, STRAIGHT)                | E1C     | CJP07GA193ZY     | 1   |     |
| CN66,67           | nsp           | WAFER, 64pin ( 2 x 32 x 1.27mm) SMD TYPE          | E1C     | CJP64GA312PZ     | 2   |     |
| CN90              | nsp           | WAFER, 2P, 3.96mm                                 | E1C     | CJP02KA060ZY     | 1   |     |
| CN92              | nsp           | LOCK-WAFER/ANGLE/2.5MM PITCH/5PIN                 | E1C     | CJP05GJ289ZY     | 1   |     |
| CN93              | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2MM               | E1C     | CJP13GI236ZW     | 1   |     |
| ! CX91            | 943134503220D | CAP , X2(275VAC, 0.22uF, 12mm, SEORYONG)          | E1C     | CQCF2E224KZFS    | 1   |     |
| ET20,21           | nsp           | PLATE , EARTH(TRONIC ELECTRONICS)                 | E1C     | CJT1A026         | 2   |     |
| ! F901            | 943652500300M | FUSE, 215 SERIES, 4A, 250V                        | E1C     | CBA2C4000TLHEY   | 1   | *   |
| FH91,92           | nsp           | HOLDER , FUSE                                     | E1C     | KJCF5S           | 2   |     |
| JK20              | 943643102900D | Terminal 2P Speaker( PUSH BK,RD )                 | E1C     | CJ35N029Z        | 1   |     |
| EXPLODED_C5       | 943643102910D | Terminal 2P Speaker( PUSH RD,BK )                 | E1C     | CJ35N028Z        | 1   |     |
| EXPLODED_C6       | 943643103110D | JACK, RCA (3PIN, WH/RD/BK, Ni PLATE, VERTICAL)    | E1C     | CJJ4S058Z        | 1   |     |
| JK60              | 943643102460D | JACK , USB ANGLE TYPE (BLACK 1.5A)                | E1C     | CJJ9X014Z        | 1   |     |
| JK61              | 943643102430S | JACK , RJ-45 W/TRANSFORMER                        | E1C     | CJJ9L029Z        | 1   |     |
| ! JK90            | 943641500240D | INLET , AC , NON-POL (250V/2.5A PCB MOUNT TYPE)   | E1C     | CJ38A019Z        | 1   |     |

| REF No.                | Part No.      | Part Name                                   | Remarks |                | Q'ty | New | Ver |
|------------------------|---------------|---------------------------------------------|---------|----------------|------|-----|-----|
| JW20,21<br>EXPLODED M4 | nsp           | SUPPORT , PCB                               | E1C     | CDF1A035       | 2    |     |     |
| L204                   | nsp           | FERRITE CHIP BEAD(4516/60R)                 | E1C     | CLZ9Z014Z      | 1    |     |     |
| L205-208               | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 4    |     |     |
| L209                   | nsp           | BEAD , FERRITE (FCM2012KF-121T08 , 120 OHM) | E1C     | CLZ9R010Z      | 1    |     |     |
| L210-221               | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 12   |     |     |
| L322                   | nsp           | FERRITE CHIP BEAD(1608/60R,CB03YTYH600)     | E1C     | CLZ9R005V      | 1    |     |     |
| L341                   | nsp           | FERRITE CHIP BEAD(1608/60R,CB03YTYH600)     | E1C     | CLZ9R005V      | 1    |     |     |
| L451-461               | nsp           | FERRITE CHIP BEAD(1608/60R,CB03YTYH600)     | E1C     | CLZ9R005V      | 11   |     |     |
| L600,601               | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 2    |     |     |
| L602                   | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)   | E1C     | CLZ9R018V      | 1    |     |     |
| L603                   | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 1    |     |     |
| L604                   | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)   | E1C     | CLZ9R018V      | 1    |     |     |
| L605-609               | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 5    |     |     |
| L610,611               | nsp           | COMMON MODE FILTER (2012, 90ohm)            | E1C     | CLZ9Z174Z      | 2    |     |     |
| L614                   | nsp           | FERRITE CHIP BEAD(4516/60R)                 | E1C     | CLZ9Z014Z      | 1    |     |     |
| L615,616               | nsp           | FERRITE CHIP BEAD(2012/220R, CB05YTYH221)   | E1C     | CLZ9R018V      | 2    |     |     |
| L617-619               | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)            | E1C     | CLZ9R001Z      | 3    |     |     |
| LF91                   | 943111100490M | FILTER , LINE(DMC250)                       | E1C     | CLZ9Z087Z      | 1    |     |     |
| LF92                   | 943111101310S | EOL item LINE, FILTER(5.0A/5.0mH)           | E1C     | CLZ9Z158Z      | 1    |     |     |
| PF12                   | nsp           | WAFER, FFC(27P-1.25mm, STRAIGHT)            | E1C     | CJP27GA115ZY   | 1    |     |     |
| PF15                   | nsp           | WAFER, FFC, SMD(11P-1mm, STRAIGHT)          | E1C     | CJP11GA193ZY   | 1    |     |     |
| PF60                   | nsp           | WAFER, FFC(25P-1mm, STRAIGHT)               | E1C     | CJP25GA117ZY   | 1    |     |     |
| PF70,71                | nsp           | FEMALE HEADER (6P 2.54mm) , STRAIGHT TYPE   | E1C     | CJP06GA221ZB   | 2    |     |     |
| PF72                   | nsp           | FEMALE HEADER (12P 2.54mm) , STRAIGHT TYPE  | E1C     | CJP12GA221ZB   | 1    |     |     |
| PF80                   | nsp           | WAFER, FFC(19P-1mm, STRAIGHT)               | E1C     | CJP19GA117ZY   | 1    |     |     |
| SW60                   | 943662100180M | SW, TACT, VERTICAL (3.3mm)                  | E1C     | CST1A032ZT     | 1    |     |     |
| VT91                   | 943251100070M | VARISTOR(560V, 14mm)                        | E1C     | CRVVC561D14A   | 1    |     |     |
| WF22                   | nsp           | WAFER, FFC, SMD(07P-1mm, STRAIGHT)          | E1C     | CJP07GA193ZY   | 1    |     |     |
| WF23                   | nsp           | WAFER, FFC, SMD(4pin, 1mm, STRAIGHT)        | E1C     | CJP04GA193ZY   | 1    |     |     |
| WF60                   | nsp           | WAFER, FFC(25P-1mm, STRAIGHT)               | E1C     | CJP25GA117ZY   | 1    |     |     |
| X200                   | 943141100610S | X-TAL, SMD 3.2X2.5, 12.000MHz, 10PF         | E1C     | COX120001100ST | 1    |     |     |
| X201                   | 943141100620S | X-TAL, SMD 3.2X2.5, 24.576MHz, 12PF         | E1C     | COX245761120ST | 1    |     |     |

## DAMP PCB ASS'Y

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E3 : U.S.A. &amp; Canada model E2 : Europe model E1C : China model E1 : Asia model JP : Japan model

BK : Black model SP : Premium Silver model WT : White model

| REF No.                     | Part No.      | Part Name                                          | Remarks | Q'ty            | New | Ver |
|-----------------------------|---------------|----------------------------------------------------|---------|-----------------|-----|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                                                    |         |                 |     |     |
| D700,701                    | 201310001503S | DIODE, ULTRA-HIGH SPEED                            |         | CVDKDS160RTKP   | 2   |     |
| IC70                        | 00D2623503911 | I.C , STEREO DIGITAL AMP                           |         | CVITAS5142DKDG4 | 1   |     |
| Q700                        | 943215500140D | T.R,RT1P144C(10K-47K)                              |         | CVTRT1P144C     | 1   |     |
| Q701                        | 943216500020S | T.R,RT1N141C(10K-10K)                              |         | CVTRT1N141C     | 1   |     |
| Q702                        | 00D2730464901 | T.R , CHIP , SOT-23                                |         | HVTKTC3875SYRTH | 1   |     |
| Q703                        | 00D9430058908 | T.R , CHIP , SOT-23                                |         | HVTKTA1504SYRTH | 1   |     |
| Q704                        | 00D2730464901 | T.R , CHIP , SOT-23                                |         | HVTKTC3875SYRTH | 1   |     |
| Q705                        | 00D9430058908 | T.R , CHIP , SOT-23                                |         | HVTKTA1504SYRTH | 1   |     |
| <b>RESISTOR GROUP</b>       |               |                                                    |         |                 |     |     |
| R700-703                    | nsp           | RES, CHIP(1608/5%/0ohm)                            |         | CRJ10DJ0R0T     | 4   |     |
| R704,705                    | nsp           | RES, CHIP(1608/5%/1Kohm)                           |         | CRJ10DJ102T     | 2   |     |
| R706-709                    | nsp           | RES, CHIP(1608/5%/10Kohm)                          |         | CRJ10DJ103T     | 4   |     |
| R710                        | nsp           | RES, CHIP(1608/5%/39Kohm)                          |         | CRJ10DJ393T     | 1   |     |
| R711-714                    | nsp           | RES, CHIP(2012/1%/18ohm)                           |         | CRJ18AF18R0T    | 4   |     |
| R715,716                    | nsp           | RES, CHIP(1608/5%/0ohm)                            |         | CRJ10DJ0R0T     | 2   |     |
| R719                        | nsp           | RES, CHIP(1608/5%/1ohm)                            |         | CRJ10DJ1R0T     | 1   |     |
| R724                        | nsp           | RES, CHIP(1608/5%/100Kohm)                         |         | CRJ10DJ104T     | 1   |     |
| R725                        | nsp           | RES, CHIP(1608/5%/47Kohm)                          |         | CRJ10DJ473T     | 1   |     |
| R726,727                    | nsp           | RES, CHIP(1608/5%/100Kohm)                         |         | CRJ10DJ104T     | 2   |     |
| R728                        | nsp           | RES, CHIP(1608/5%/47Kohm)                          |         | CRJ10DJ473T     | 1   |     |
| R729                        | nsp           | RES, CHIP(1608/5%/10Kohm)                          |         | CRJ10DJ103T     | 1   |     |
| R731                        | nsp           | RES, CHIP(1608/5%/0ohm)                            |         | CRJ10DJ0R0T     | 1   |     |
| R734-736                    | nsp           | RES, CHIP(1608/5%/0ohm)                            |         | CRJ10DJ0R0T     | 3   |     |
| R738                        | nsp           | RES, CHIP(1608/5%/0ohm)                            |         | CRJ10DJ0R0T     | 1   |     |
| R739-742                    | nsp           | RES, CHIP(1005/5%/100ohm)                          |         | CRJ06DJ101T     | 4   |     |
| <b>CAPACITORS GROUP</b>     |               |                                                    |         |                 |     |     |
| C700-709                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG            |         | CCUS1H104KCS    | 10  |     |
| C710                        | nsp           | CAP, CHIP(1608, 16V/1uF, X7R) SAMSUNG              |         | CCUS1C105KCS    | 1   |     |
| C712                        | 943132500660M | CAP, CHIP(1608, 100V/330pF, MURATA GRM18)          |         | CCUMUS2A331JAM  | 1   |     |
| C713                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG            |         | CCUS1H104KCS    | 1   |     |
| C714                        | nsp           | CAP, CHIP(2012, 50V/1uF, X7R, X7S) SAMSUNG         |         | CCUC1H105KCS    | 1   |     |
| C715,716                    | nsp           | CAP, CHIP(2012, 50V/0.033uF, X7R) SAMSUNG          |         | CCUC1H333KCS    | 2   |     |
| C721,722                    | nsp           | CAP, CHIP(2012, 50V/1uF, X7R, X7S) SAMSUNG         |         | CCUC1H105KCS    | 2   |     |
| C723                        | nsp           | CAP, CHIP(2012, 50V/0.033uF, X7R) SAMSUNG          |         | CCUC1H333KCS    | 1   |     |
| C724                        | nsp           | CAP, CHIP(2012, 50V/1uF, X7R, X7S) SAMSUNG         |         | CCUC1H105KCS    | 1   |     |
| C725,726                    | 943132500660M | CAP, CHIP(1608, 100V/330pF, MURATA GRM18)          |         | CCUMUS2A331JAM  | 2   |     |
| C727                        | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG           |         | CCUS1H102KCS    | 1   |     |
| C729                        | 943132500660M | CAP, CHIP(1608, 100V/330pF, MURATA GRM18)          |         | CCUMUS2A331JAM  | 1   |     |
| C733-736                    | nsp           | CAP, CHIP(2012, 25V/22uF, X7R) SAMSUNG             |         | CCUC1E226KCS    | 4   |     |
| C737                        | 943132100550D | CAP, CHIP(3216, 10uF/50V, X5R) SAMSUNG             |         | CCUP1H106KCS    | 1   | *   |
| C739                        | 943132100550D | CAP, CHIP(3216, 10uF/50V, X5R) SAMSUNG             |         | CCUP1H106KCS    | 1   | *   |
| C740                        | nsp           | CAP, CHIP(2012, 50V/0.01uF, X7R) SAMSUNG           |         | CCUC1H103KCS    | 1   |     |
| C741-744                    | nsp           | CAP, CHIP(2012, 100V/0.1uF, X7R) SAMSUNG           |         | CCUC2A104KCS    | 4   |     |
| C745                        | nsp           | OPEN DZ17-077                                      |         |                 | 1   | 8   |
| C746,747                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG            |         | CCUS1H104KCS    | 2   |     |
| C748                        | 943132100550D | CAP, CHIP(3216, 10uF/50V, X5R) SAMSUNG             |         | CCUP1H106KCS    | 1   | *   |
| C749                        | nsp           | CAP, CHIP(2012, 50V/0.033uF, X7R) SAMSUNG          |         | CCUC1H333KCS    | 1   |     |
| C750                        | 943133502190D | CAP,METAL-FILM(100V/0.47uF, TOSHIN MMSSDC Series)  |         | CCME2A474KD30T  | 1   | *   |
| C752                        | 943132100550D | CAP, CHIP(3216, 10uF/50V, X5R) SAMSUNG             |         | CCUP1H106KCS    | 1   | *   |
| C753-755                    | 00D9430101208 | CAP, ELECT(16V/100uF),105°C                        |         | CCEA1CH101TS    | 3   |     |
| C756                        | 943133502190D | CAP,METAL-FILM(100V/0.47uF, TOSHIN MMSSDC Series)  |         | CCME2A474KD30T  | 1   | *   |
| C757,758                    | 943134503410D | CAP, ELECT(UTWXZ , 50V/330uF, D18XL40),105°C       |         | CCEA1HUTWXZ332  | 2   | *   |
| EXPLODED C32                | nsp           |                                                    |         |                 |     |     |
| C760-762                    | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG           |         | CCUS1H102KCS    | 3   |     |
| C763,764                    | 00MOA22702520 | CAP, ELECT(25V/220uF)                              |         | CCEA1EH221T     | 2   |     |
| C770-772                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG            |         | CCUS1H104KCS    | 3   |     |
| <b>OTHER PARTS GROUP</b>    |               |                                                    |         |                 |     |     |
| JW71                        | nsp           | WIRE ASS'Y(1P, 80MM,BLK,#22)                       |         | CWE5202080A     | 1   |     |
| L708,709                    | 943115100620D | INDUCTOR, 10uH+20%(SAGAMI DLM1623 Series)          |         | CLZ9Z189Z       | 2   | *   |
| L711                        | nsp           | FERRITE , CHIP BEAD(60ohm, 2012)                   |         | CLZ9R001Z       | 1   |     |
| WF70,71                     | nsp           | PIN SOCKET,SMD(06PIN,2.54mm,8.5mm Height,STRAIGHT) |         | CJP06GA300ZB    | 2   |     |
| WF72                        | nsp           | PIN SOCKET,SMD(12PIN,2.54mm,8.5mm Height,STRAIGHT) |         | CJP12GA300ZB    | 1   |     |
| EXPLODED M1                 | nsp           | SINK , HEAT(MCR510)                                |         | CMY1A400        | 1   |     |
| ★                           | nsp           | SCREW                                              |         | CTB3+8JR        | 2   |     |

## CD PCB ASS'Y

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BK : Black model SP : Premium Silver model WT : White model

| REF No.                     | Part No.      | Part Name                                 | Remarks          | Q'ty | New | Ver |
|-----------------------------|---------------|-------------------------------------------|------------------|------|-----|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                                           |                  |      |     |     |
| D800-802                    | 00D9430060501 | DIODE , RECTIFIER                         | HVD1SR159-200    | 3    |     |     |
| D803                        | 943209001080S | DIODE , CHIP , SWITCHING                  | CVD1SS355T       | 1    |     |     |
| D805,806                    | 943209001080S | DIODE , CHIP , SWITCHING                  | CVD1SS355T       | 2    |     |     |
| IC80                        | 943231101640S | IC, REGULATOR(1A, 8V)                     | CVILM7808RTRL    | 1    |     |     |
| IC81                        | 943239006900S | I.C , 5-CH MOTOR DRIVE(REG,SSOP-28P)      | CVIIP4001CRLTF C | 1    |     |     |
| IC83                        | 943245006980S | I.C , CD DSP(DSP,LQFP-80P)                | CVITC94A92FG CU  | 1    |     |     |
| IC84                        | 943231101630S | I.C REGULATOR 1.5V LDO,SOT-223            | CVILM1117C-1V5   | 1    |     |     |
| Q800                        | 00D9430058908 | T.R , CHIP , SOT-23                       | HVTKTA1504SYRTK  | 1    |     |     |
| <b>RESISTOR GROUP</b>       |               |                                           |                  |      |     |     |
| R800                        | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | CRJ10DJ472T      | 1    |     |     |
| R801-803                    | nsp           | RES, CHIP(1608/5%/47Kohm)                 | CRJ10DJ473T      | 3    |     |     |
| R804                        | nsp           | RES, CHIP(1608/5%/91ohm)                  | CRJ10DJ910T      | 1    |     |     |
| R805                        | nsp           | RES, CHIP(1608/5%/0ohm)                   | CRJ10DJ0R0T      | 1    |     |     |
| R806-813                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | CRJ10DJ103T      | 8    |     |     |
| R814                        | nsp           | RES, CHIP(1608/5%/1Mohm)                  | CRJ10DJ105T      | 1    |     |     |
| R815-816                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | CRJ10DJ101T      | 2    |     |     |
| R817                        | nsp           | RES, CHIP(1608/5%/0ohm)                   | CRJ10DJ0R0T      | 1    |     |     |
| R818                        | nsp           | RES, CHIP(1608/5%/15Kohm)                 | CRJ10DJ153T      | 1    |     |     |
| R819-822                    | nsp           | RES, CHIP(1608/5%/10Kohm)                 | CRJ10DJ103T      | 4    |     |     |
| R824                        | nsp           | RES, CHIP(1608/5%/220ohm)                 | CRJ10DJ221T      | 1    |     |     |
| R825-829                    | nsp           | RES, CHIP(1608/5%/33ohm)                  | CRJ10DJ330T      | 5    |     |     |
| R832                        | nsp           | RES, CHIP(1608/5%/330Kohm)                | CRJ10DJ334T      | 1    |     |     |
| R833-836                    | nsp           | RES, CHIP(1608/5%/39ohm)                  | CRJ10DJ390T      | 4    |     |     |
| R837                        | nsp           | RES, CHIP(1608/5%/470ohm)                 | CRJ10DJ471T      | 1    |     |     |
| R840                        | nsp           | RES, CHIP(1608/5%/470ohm)                 | CRJ10DJ471T      | 1    |     |     |
| R841                        | nsp           | RES, CHIP(1608/5%/4.7Kohm)                | CRJ10DJ472T      | 1    |     |     |
| R842-845                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | CRJ10DJ0R0T      | 4    |     |     |
| R847-849                    | nsp           | RES, CHIP(1608/5%/100ohm)                 | CRJ10DJ101T      | 3    |     |     |
| R850-855                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | CRJ10DJ0R0T      | 6    |     |     |
| R862                        | nsp           | RES, CHIP(1608/5%/51ohm)                  | CRJ10DJ510T      | 1    |     |     |
| R863                        | nsp           | RES, CHIP(1608/5%/1Kohm)                  | CRJ10DJ102T      | 1    |     |     |
| R864                        | nsp           | RES, CHIP(1608/5%/10Kohm)                 | CRJ10DJ103T      | 1    |     |     |
| R865-872                    | nsp           | RES, CHIP(1608/5%/0ohm)                   | CRJ10DJ0R0T      | 8    |     |     |
| <b>CAPACITORS GROUP</b>     |               |                                           |                  |      |     |     |
| C800                        | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 1    |     |     |
| C802-804                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 3    |     |     |
| C805-808                    | nsp           | CAP, CHIP(1608, 50V/1000pF, X7R) SAMSUNG  | CCUS1H102KCS     | 4    |     |     |
| C809-815                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 7    |     |     |
| C816-819                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | CCUS1H103KCS     | 4    |     |     |
| C820                        | nsp           | CAP, CHIP(1608, 50V/5600pF, X7R) SAMSUNG  | CCUS1H562KCS     | 1    |     |     |
| C822-827                    | nsp           | CAP, CHIP(1608, 50V/0.01uF, X7R) SAMSUNG  | CCUS1H103KCS     | 6    |     |     |
| C828-836                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 9    |     |     |
| C838-852                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 15   |     |     |
| C853,854                    | nsp           | CAP, CHIP(1608, 50V/15pF, C0G) SAMSUNG    | CCUS1H150JAS     | 2    |     |     |
| C855,856                    | nsp           | CAP, CHIP(1608, 50V/0.015uF, X7R) SAMSUNG | CCUS1H153KCS     | 2    |     |     |
| C857-859                    | nsp           | CAP, CHIP(1608, 50V/22pF, C0G) SAMSUNG    | CCUS1H220JAS     | 3    |     |     |
| C860                        | nsp           | CAP, CHIP(1608, 50V/2200pF, X7R) SAMSUNG  | CCUS1H222KCS     | 1    |     |     |
| C861                        | nsp           | CAP, CHIP(1608, 50V/0.033uF, X7R) SAMSUNG | CCUS1H333KCS     | 1    |     |     |
| C862                        | nsp           | CAP, CHIP(1608, 50V/47pF, C0G) SAMSUNG    | CCUS1H470JAS     | 1    |     |     |
| C863,864                    | nsp           | CAP, CHIP(1608, 50V/470pF, C0G) SAMSUNG   | CCUS1H471JAS     | 2    |     |     |
| C865                        | nsp           | CAP, CHIP(1608, 50V/4700pF, X7R) SAMSUNG  | CCUS1H472KCS     | 1    |     |     |
| C866                        | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | CCUS1H473KCS     | 1    |     |     |
| C868                        | nsp           | CAP, CHIP(1608, 50V/0.047uF, X7R) SAMSUNG | CCUS1H473KCS     | 1    |     |     |
| C869-879                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 11   |     |     |
| C880,881                    | 90M-EJ000010R | CAP, ELECT(10V/100uF)-S                   | CCEA1AKS101T     | 2    |     |     |
| C883-886                    | 943134503340D | CAP, ELECT(10V/100uF)                     | CCEA1AH101TC     | 4    | *   |     |
| C887                        | 943134501960D | CAP, ELECT(25V/47uF)-S                    | CCEA1EKS470TC    | 1    |     |     |
| C888                        | 90M-EJ000010R | CAP, ELECT(10V/100uF)-S                   | CCEA1AKS101T     | 1    |     |     |
| C889,890                    | 00D943010390S | CAP, ELECT(16V/470uF)                     | CCEA1CH471T      | 2    |     |     |
| C891,892                    | 943134503350D | CAP, ELECT(10V/470uF)                     | CCEA1AH471TC     | 2    | *   |     |
| C893                        | 943134503360D | CAP, ELECT(16V/220uF)                     | CCEA1CH221TC     | 1    | *   |     |
| C894                        | 943134503340D | CAP, ELECT(10V/100uF)                     | CCEA1AH101TC     | 1    | *   |     |
| C895                        | 90M-EJ000010R | CAP, ELECT(10V/100uF)-S                   | CCEA1AKS101T     | 1    |     |     |
| C896-901                    | nsp           | CAP, CHIP(1608, 50V/0.1uF, X7R) SAMSUNG   | CCUS1H104KCS     | 6    |     |     |
| <b>OTHER PARTS GROUP</b>    |               |                                           |                  |      |     |     |
| CN80                        | nsp           | WAFER , STRAIGHT(DVD LOADER)              | CJP06GA19ZY      | 1    |     |     |
| CN81                        | nsp           | LOCKING TYPE , STRAIGHT WAFER , 2mm       | CJP05GI236ZW     | 1    |     |     |
| CN82                        | nsp           | WAFER , STRAIGHT                          | CJP05GA19ZY      | 1    |     |     |
| JK80                        | nsp           | PLATE , EARTH(TRONIC ELECTRONICS)         | CJT1A026         | 1    |     |     |
| JW80                        | nsp           | WIRE ASS'Y(1P, 80MM,BLK,#22)              | CWE5202080A      | 1    |     |     |
| L800-802                    | nsp           | FERRITE CHIP BEAD(4516/60R)               | CLZ9Z014Z        | 3    |     |     |
| L803                        | 90M-LU000220R | INDUCTOR CHIP 10UH (3225 PKG)             | HLQ10E100KRZ     | 1    |     |     |
| WF80                        | nsp           | WAFER, FFC(19P-1mm, STRAIGHT)             | CJP19GA117ZY     | 1    |     |     |
| WF81                        | nsp           | WAFER, FFC(16P-1mm, STRAIGHT)             | CJP16GA117ZY     | 1    |     |     |
| X800                        | 943141001190S | X-TAL, 16.934MHz, HC-49/SMD, 12pF, 25PPM  | COX16934E120S    | 1    |     |     |

## EXPLODED

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BK : Black model SP : Premium Silver model WT : White model

| REF No.        | Part No.      | Part Name                                                                    | Remarks           |                 | Q'ty | New | Ver |
|----------------|---------------|------------------------------------------------------------------------------|-------------------|-----------------|------|-----|-----|
| C1             | 943639101980D | RCD-N9 SMPS PCB ASSY                                                         | E2, E1C           | COP12676B       | 1    | *   | 2   |
| C1             | 943639101990D | RCD-N9 SMPS PCB ASSY                                                         | JP                | COP12676C       | 1    | *   | 2   |
| C4             | nsp           | RCD-N9 DAMP PCB ASSY                                                         |                   | COP12675B       | 1    | *   |     |
| C34            | nsp           | RCD-N9 MAIN PCB ASSY                                                         | E2, JP            | COP12674B       | 1    | *   |     |
| C34            | nsp           | RCD-N9 MAIN PCB ASSY                                                         | E1C               | VOP12906E       | 1    | *   | 5   |
| └C22           | -             | AC INLET PCB ASSY                                                            |                   | CUP12674Z       | 1    | *   |     |
| └C23           | -             | NETWORK/WIFI PCB ASSY                                                        |                   | CUP12674Z       | 1    | *   |     |
| └C25           | -             | USB PCB ASSY                                                                 |                   | CUP12674Z       | 1    | *   |     |
| └C35           | -             | SUPPORT PCB                                                                  |                   | CUP12674Z       | 1    | *   |     |
| C24            | nsp           | RCD-N9 FRONT PCB ASSY                                                        |                   | COP12673B       | 1    | *   |     |
| └C26           | -             | H/P PCB ASSY                                                                 |                   | CUP12673Z       | 1    | *   |     |
| └C28           | -             | KEY PCB ASSY                                                                 |                   | CUP12673Z       | 1    | *   |     |
| └C29           | -             | TUNER/DIGITAL PCB ASSY                                                       |                   | CUP12673Z       | 1    | *   |     |
| C30            | nsp           | RCD-N9 CD PCB ASSY                                                           |                   | COP12677B       | 1    | *   |     |
| C36            | 943189101050D | CY920 MODULE ASSY<br>See Procedure after Replacing the Microprocessor, etc.. | E2, E1C JP common | RCDN9E2AS       | 1    | *   | 4   |
| └C27-WF14      | C36 SET       | MODULE, NFC (AMOTECH, Stiffener=0.35mm, 4P)                                  |                   | -               | 1    | *   |     |
| └C37 PF80-WF80 | C36 SET       | Module.Network(BT,WiFi,USB), ANT 2EA Only RCDN9                              |                   | -               | 1    | *   |     |
| C7 PF12-WF11   | 943606502660D | CABLE, CARD (27P, 1.25mm, 200mm, B TYPE, SHIELD)                             |                   | CWC6F4A27B200B0 | 1    | *   |     |
| C8 PF13-WF13   | 943606502670D | CABLE, CARD (5P, 1mm, 80mm, B TYPE)                                          |                   | CWC4F4A05A080B0 | 1    | *   |     |
| ★ PF80-WF80    | 943606502680D | CABLE, CARD (19P, 1mm, 50mm, B TYPE)                                         |                   | CWC4F4A19A050B0 | 1    | *   |     |
| ★ PF15-WF15    | 943606502690D | CABLE, CARD (11P, 1mm, 80mm, B TYPE)                                         |                   | CWC4F4A11A080B0 | 1    | *   |     |
| ★ PF60-WF60    | 943606502700D | CABLE, CARD (25P, 1mm, 50mm, B TYPE, SHIELD)                                 |                   | CWC6F4A25A050B0 | 1    | *   |     |
| ★ WF81-CD      | 943606502710D | CABLE, CARD (16P, 1mm, 100mm, A TYPE)                                        |                   | CWC4F4A16A100A0 | 1    | *   | 2   |
| C9 BN16-CN16   | nsp           | WIRE ASSY LOCKING TYPE (5P, 2mm, 50mm)                                       |                   | CWB1B00505047   | 1    | *   |     |
| C9 BN93-CN93   | nsp           | ROCKING TYPE WIRE ASSY(13P, 180MM, 2.0MM)                                    |                   | CWB1B01318047   | 1    | *   |     |
| C10 BN10-CN10  | nsp           | WIRE ASSY (5PIN, 2mm PITCH, 150mm, UL TUBE)                                  |                   | CWB1B0051504700 | 1    | *   |     |
| C11 BN62-CN62  | nsp           | WIRE ASSY (3PIN, 2.5mm PITCH, 80mm, ANGLE)                                   |                   | CWB1D00308059   | 1    | *   |     |
| C12 BN63-CN63  | nsp           | WIRE ASSY (5PIN, 2mm PITCH, 180mm, SHIELD)                                   |                   | CWB1C9051804600 | 1    | *   |     |
| C13 BN92-CN92  | nsp           | WIRE ASSY (5PIN, 2.5mm PITCH, 280mm, STRAIGHT)                               |                   | CWB1D00528058   | 1    | *   |     |
| C14 BN90-CN90  | nsp           | WIRE ASSY (3PIN, 3.96mm PITCH, 50mm, STRAIGHT)                               |                   | CWB4D003050VZ   | 1    | *   |     |
| C15 BN91-CN91  | nsp           | WIRE ASSY (5PIN, 2.5mm PITCH, 120mm, STRAIGHT)                               |                   | CWB1D0051205800 | 1    | *   |     |
| C16 BN81-CN81  | nsp           | WIRE ASSY LOCKING TYPE (5P, 2mm, 50mm)                                       |                   | CWB1B00505047   | 1    | *   |     |
| C17 CN82-CD    | nsp           | WIRE ASSY(LOCKING, 5P, 150MM, 2.0MM)                                         |                   | CWB1B005150EG00 | 1    | *   |     |
| C18 CN80-CD    | nsp           | WIRE ASSY                                                                    |                   | CWB5A906080EG   | 1    | *   |     |
| M5             | nsp           | BOTTOM CHASSIS                                                               |                   | CUA3A346        | 1    | *   |     |
| M6             | nsp           | CHASSIS, FRONT                                                               |                   | CUF1A026        | 1    | *   |     |
| M7             | nsp           | SHIELD, COVER(TOP)                                                           |                   | CMC2A449        | 1    | *   |     |
| M8             | nsp           | COVER, SHIELD OLED                                                           |                   | CMC1A448        | 1    | *   |     |
| M9             | nsp           | PLATE, SPEAKER                                                               |                   | CMC1A467        | 1    | *   |     |
| M10            | nsp           | PANEL, REAR CHASSIS                                                          | E2                | CKF1A488Z       | 1    | *   |     |
| M10            | nsp           | PANEL, REAR CHASSIS                                                          | JP                | CKF1A488Y       | 1    | *   |     |
| M10            | nsp           | PANEL, REAR                                                                  | E1C               | VKF1A488U       | 1    | *   | 5   |
| P1             | 943402105160D | FRONT PANEL (BK)                                                             | BK                | CGW1A561ZR12    | 1    | *   |     |
| P1             | 943402105170D | FRONT PANEL (WT)                                                             | WT                | CGW1A561ZR11    | 1    | *   |     |
| P2             | 943402105180D | SIDE PANEL (BK)                                                              | BK                | CKD1A095R12     | 2    | *   |     |
| P2             | 943402105190D | SIDE PANEL (WT)                                                              | WT                | CKD1A095R11     | 2    | *   |     |
| P3             | 943402105260D | PANEL, REAR MOLD                                                             | BK                | CGP1A044R12     | 1    | *   |     |
| P3             | 943402105270D | PANEL, REAR MOLD                                                             | WT                | CGP1A044R11     | 1    | *   |     |
| P4             | 943418100540D | LOADER PANEL (BK)                                                            | BK                | CGR1A581R12     | 1    | *   |     |
| P4             | 943418100550D | LOADER PANEL (WT)                                                            | WT                | CGR1A581R11     | 1    | *   |     |
| P5             | 943416101450D | WINDOW                                                                       |                   | CGU1A488Z       | 1    | *   |     |
| P6             | 943403101200D | TOP PANEL (BK)                                                               | BK                | CKD1A093Y       | 1    | *   |     |
| P6             | 943403101210D | TOP PANEL (WT)                                                               | WT                | CKD1A093Z       | 1    | *   |     |
| P7             | 943403101220D | TOP PANEL INNER (BK)                                                         | BK                | CKD1A094RH      | 1    | *   |     |
| P7             | 943403101230D | TOP PANEL INNER (WT)                                                         | WT                | CKD1A094R25     | 1    | *   |     |
| P8             | nsp           | HOLDER, OLED                                                                 |                   | CMH1A346        | 1    | *   |     |
| P9             | nsp           | INSULATOR, POWER                                                             |                   | CMX1A329        | 1    | *   |     |
| P10            | 943407100570D | FOOT                                                                         |                   | CKL1A102        | 4    | *   | 2   |
| P11            | 943407100580D | RUBBER, FOOT                                                                 |                   | CHG1A297        | 4    | *   | 2   |
| P12            | nsp           | INSULATOR, SMPS                                                              |                   | CMX1A328        | 1    | *   |     |
| P13            | 943302100130D | CJDKT690 CD MECHA ASSY DCD720                                                |                   | CJDKT690EJ      | 1    | *   |     |
| └★             | 900302100200S | CD MECHANISM (Traverse)                                                      |                   | CJD5C6201Z      | 1    | *   |     |
| └★             | 30201005100AD | LM BELT                                                                      | For<br>LOADING    | CDV1A011        | 1    | *   | 2   |
| P14            | nsp           | SUPPORT, MECA - R                                                            |                   | CMH1A363        | 1    | *   |     |
| P15            | nsp           | SUPPORT, MECA - L                                                            |                   | CMH1A364        | 1    | *   |     |
| P19            | 943411103390D | BUTTON, CURSOR ASSY                                                          | BK                | CBT1A1201XR12A  | 1    | *   |     |
| P19            | 943411103400D | BUTTON, CURSOR ASSY                                                          | WT                | CBT1A1201XR11A  | 1    | *   |     |
| P20            | 943411103410D | BUTTON, ENTER                                                                | BK                | CBT1A1202XR12   | 1    | *   |     |
| P20            | 943411103420D | BUTTON, ENTER                                                                | WT                | CBT1A1202XR11   | 1    | *   |     |
| P21            | 943411103430D | BUTTON, POWER ASSY                                                           | BK                | CBT1A1206R12A   | 1    | *   |     |
| P21            | 943411103440D | BUTTON, POWER ASSY                                                           | WT                | CBT1A1206R11A   | 1    | *   |     |
| P22            | 943411103450D | BUTTON, VOLUM UP ASSY                                                        | BK                | CBT1A1199XR12A  | 1    | *   |     |
| P22            | 943411103460D | BUTTON, VOLUM UP ASSY                                                        | WT                | CBT1A1199XR11A  | 1    | *   |     |
| P23            | 943411103470D | BUTTON, VOLUM DOWN ASSY                                                      | BK                | CBT1A1199YR12A  | 1    | *   |     |
| P23            | 943411103480D | BUTTON, VOLUM DOWN ASSY                                                      | WT                | CBT1A1199YR11A  | 1    | *   |     |
| P24            | 943411103490D | BUTTON, SELECT ASSY                                                          | BK                | CBT1A1200XR12A  | 1    | *   |     |
| P24            | 943411103500D | BUTTON, SELECT ASSY                                                          | WT                | CBT1A1200XR11A  | 1    | *   |     |
| P25            | nsp           | INSULATOR, NETWORK                                                           |                   | CMX1A351        | 1    | *   |     |
| P26            | 943411103510D | BUTTON, Eject ASSY                                                           | BK                | CBT1A1199ZR12A  | 1    | *   |     |
| P26            | 943411103520D | BUTTON, Eject ASSY                                                           | WT                | CBT1A1199ZR11A  | 1    | *   |     |
| ★              | nsp           | RUFFER, FL CRX-E320                                                          |                   | CHG1A364        | 1    | *   |     |
| ★              | nsp           | SHEET, LIGHTING                                                              |                   | CMX1A359        | 1    | *   |     |
| S2             | nsp           | SCREW                                                                        |                   | CTB3+6JR        | 10   | *   |     |
| S3             | nsp           | SCREW                                                                        |                   | CTB3+6JFZR      | 17   | *   |     |
| S4             | nsp           | SCREW                                                                        |                   | CTB3+10JFZR     | 24   | *   |     |
| ★              | nsp           | SCREW                                                                        |                   | CTB3+6FFZR      | 3    | *   |     |
| ★              | nsp           | SCREW                                                                        |                   | CTB3+6FR        | 5    | *   |     |
| ★              | nsp           | SCREW                                                                        |                   | CTB3+8JR        | 2    | *   |     |
| ★              | nsp           | SCREW                                                                        |                   | CTS3+8JFZR      | 8    | *   |     |

## PACKING

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| REF No. | Part No.      | Part Name                                         | Remarks |               | Q'ty | New | Ver |
|---------|---------------|---------------------------------------------------|---------|---------------|------|-----|-----|
| 1       | 54111123100AD | QUICK MANUAL (E2)                                 | E2      | CQX1A1963Z    | 1    | *   |     |
| 1       | 54111123300AD | QUICK MANUAL (JP)                                 | JP      | CQX1A1864Z    | 1    | *   |     |
| 1       | 54111146200AD | QUICK MANUAL                                      | E1C     | VQX1A2011Z    | 1    | *   | 5   |
| 2       | 943533102830D | CUSHION TOP                                       |         | CPS1A1004     | 1    | *   |     |
| 3       | 943539100910D | SHEET, TOP                                        |         | CQE1A717Z     | 1    | *   |     |
| 5       | 943533102840D | CUSHION CENTER                                    |         | CPS1A1006     | 1    | *   |     |
| !       | 943693100510D | CORD, POWER EUR(H03VVH2-F 2X0.75MM, TIE WHT)      | BKE2    | CJA2B108YV    | 1    | *   |     |
| !       | 943611501020D | AC CORD WT (E2)                                   | WTE2    | CJA2B146ZL    | 1    | *   |     |
| !       | 943611009390S | CORD, POWER JPN(VCTFK 2X0.75MM, TIE WHT)          | JP      | CJA2J116YV    | 1    | *   |     |
| !       | 943611500440S | CORD, POWER CHINA(RVV 300/300V 2X0.75MM, TIE WHT) | E1C     | CJA2N078X     | 1    | *   | 5   |
| 7       | 963116100070S | ANT, AM LOOP(9.5uH/5T)                            |         | CSA1A039Y     | 1    |     |     |
| 8       | 943116100170D | FM 1 POLE ANT ( UL TYPE )                         |         | CSA1A044Z     | 1    |     |     |
| 9       | nsp           | BAG, ZIPPER POLY(A5)                              |         | CPB1A227Z     | 1    |     |     |
| 10      | 943533102850D | CUSHION BOTTOM                                    |         | CPS1A1005     | 1    | *   |     |
| 11      | nsp           | BATTERY, AAA 2PCS IN PACK                         |         | CABR03PPB     | 2    |     |     |
| 12      | 30701021000AD | REMOCON TRANSMITER ASS'Y (RCD-N9 BK Ver.)         | BK      | CARTRCDN9BK   | 1    | *   |     |
| 12      | 30701021100AD | REMOCON TRANSMITER ASS'Y (RCD-N9 WT Ver.)         | WT      | CARTRCDN9WT   | 1    | *   |     |
| 13      | 943531104650D | BOX, OUT CARTON EUROPE                            | E2      | CPG1A1034Z    | 1    | *   |     |
| 13      | 943531104870D | BOX, OUT CARTON JAPAN                             | JP      | CPG1A1034Y    | 1    | *   |     |
| 13      | 943531106190S | BOX, OUT CARTION                                  | E1C     | VPG1A1034X    | 1    | *   | 5   |
| 14      | 544110091014M | LABEL, WHITE M1 SG                                | WT      | CQB1A908Z     | 1    |     |     |
| 15      | nsp           | CONTROL, LABEL                                    |         | CQB1A993Z     | 1    |     |     |
| 17      | -             | INSTRUCTION MANUAL ASS'Y EUR                      | E2      | CQXRCDN9WTE2  | 1    |     |     |
| 17      | -             | INSTRUCTION MANUAL JPN                            | JP      | CQXRCDN9W     | 1    |     |     |
| 17      | -             | INSTRUCTION MANUAL ASS'Y                          | E1C     | VQXRCDN9BKE1C | 1    | *   | 5   |
| 17-1    | nsp           | BAG, ZIPPER POLY(A5)                              |         | CPB1A227Z     | 1    |     |     |
| 17-2    | 35201036500AD | INSTRUCTION MANUAL (E2)                           | E2      | CFT1A159ZA    | 1    | *   | 2   |
| 17-2    | 54111123400AD | INSTRUCTION MANUAL (JP)                           | JP      | CQX1A1883Z    | 1    | *   | 2   |
| 17-2    | 54111146100AD | MANUAL, INSTRUCTION                               | E1C     | VQX1A2012Z    | 1    | *   | 5   |
| 17-3    | nsp           | SAFETY INSTRUCTION                                |         | CQE1A750Z     | 1    |     |     |
| 17-4    | nsp           | NOTES ON RADIO                                    |         | CQE1A749Z     | 1    |     |     |
| 19      | nsp           | SET SHEET (750*750, NO PRINT)                     |         | CPB2A215      | 1    |     |     |
| 19      | nsp           | BAG, POLY                                         |         | CPB1A008Z     | 1    |     |     |
| @       | nsp           | China Tuner Isolator, SGLBF-6B                    | E1C     | CLR9Z001Z     | 1    |     | 5   |
| @       | nsp           | WARRANTY CARD, CHINA                              | E1C     | VQE1A473V     | 1    |     | 5   |
| @       | nsp           | CARD FOR CHINA IDENTIFICATION                     | E1C     | VQE1A450Z     | 1    |     | 5   |