

DSX-GS80/M80

SERVICE MANUAL

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**Sony Home Entertainment &
Sound Products Inc.**

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DSX-GS80/M80

SERVICE MANUAL

Ver. 1.0 2019.10

US Model
Canadian Model
AEP Model
UK Model
 DSX-GS80/M80
E Model
 DSX-M80



Photo: DSX-GS80

- This model is not equipped with a mechanism deck.

SPECIFICATIONS

(DSX-GS80: US, CND/DSX-M80)
FOR THE CUSTOMERS IN THE USA. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.
POUR LES CLIENTS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS



CTA2006 Standard
 Power Output: 45 Watts RMS x 4
 at 4 Ohms < 1% THD+N
 SN Ratio: 80 dBA
 (reference: 1 Watt into 4 Ohms)

Radio section

(DSX-GS80: US, CND)

FM

Tuning range: 87.5 MHz – 107.9 MHz
 Usable sensitivity: 8 dBf
 Signal-to-noise ratio: 73 dB
 Separation: 50 dB at 1 kHz

AM

Tuning range: 530 kHz – 1,710 kHz
 Sensitivity: 26 µV

(DSX-GS80: AEP, UK)

FM

Tuning range:
 When [AREA] is set to [EUROPE]:
 87.5 MHz – 108.0 MHz
 When [AREA] is set to [RUSSIA]:
 FM1/FM2: 87.5 MHz – 108.0 MHz
 (at 50 kHz step)
 FM3: 65 MHz – 74 MHz (at 30 kHz step)
 Usable sensitivity: 8 dBf
 Signal-to-noise ratio: 73 dB
 Separation: 50 dB at 1 kHz

AM/LW

Tuning range:
 531 kHz – 1,602 kHz (AM),
 153 kHz – 279 kHz (LW)
 Sensitivity:
 AM: 26 µV,
 LW: 50 µV

(DSX-M80)

FM

Tuning range:
 87.5 MHz – 108.0 MHz (at 50 kHz step)
 87.5 MHz – 108.0 MHz (at 100 kHz step)
 87.5 MHz – 107.9 MHz (at 200 kHz step)
 FM tuning step:
 50 kHz/100 kHz/200 kHz switchable
 Usable sensitivity: 8 dBf
 Signal-to-noise ratio: 73 dB
 Separation: 50 dB at 1 kHz

AM

Tuning range:
 531 kHz – 1,602 kHz (at 9 kHz step)
 530 kHz – 1,710 kHz (at 10 kHz step)
 AM tuning step:
 9 kHz/10 kHz switchable
 Sensitivity: 26 µV

USB Player section

Interface:

USB1 port (front): USB (Hi-speed)
 USB2 port (rear): USB (Hi-speed)

Maximum current:

USB1 port (front): 1 A
 USB2 port (rear): 1.5 A

The maximum number of recognizable files (tracks): 10,000

Compatible Android Open Accessory protocol (AOA): 2.0

Corresponding codec:

MP3 (.mp3)
 Bit rate: 8 kbps – 320 kbps (Supports VBR (Variable Bit Rate))
 Sampling rate: 16 kHz – 48 kHz
 WMA (.wma)
 Bit rate: 32 kbps – 192 kbps (Supports VBR (Variable Bit Rate))
 Sampling rate: 32 kHz, 44.1 kHz, 48 kHz
 AAC (.m4a, .mp4)
 Bit rate: 8 kbps – 320 kbps
 Sampling rate: 11.025 kHz – 48 kHz
 WAV (.wav)
 Bit depth: 16 bit
 Sampling rate: 44.1 kHz, 48 kHz
 FLAC (.flac)
 Bit depth: 16 bit, 24 bit
 Sampling rate: 44.1 kHz, 48 kHz
 Supported file system: FAT16, FAT32

Wireless Communication

Communication System:

BLUETOOTH Standard version 3.0

Output:

BLUETOOTH Standard Power Class 2 (Max. Conducted +1 dBm)

Maximum communication range*1:

Line of sight approx. 10 m (33 ft)

Frequency band:

2.4 GHz band (2.4000 GHz – 2.4835 GHz)

Modulation method: FHSS

Compatible BLUETOOTH Profiles*2:

A2DP (Advanced Audio Distribution Profile) 1.3
 AVRCP (Audio Video Remote Control Profile) 1.5
 HFP (Handsfree Profile) 1.6
 PBAP (Phone Book Access Profile)
 SPP (Serial Port Profile)
 Corresponding codec:
 SBC (.sbc), AAC (.m4a)

*1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna (aerial)'s performance, operating system, software application, etc.

*2 BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

Power amplifier section

Output: Speaker outputs

Speaker impedance: 2 Ω/4 Ω – 8 Ω

Maximum power output: 100 W x 4 (at 2 Ω/4 Ω)

General

(DSX-GS80)

Power requirements: 12 V DC car battery (negative ground (earth))

Rated current consumption: 10 A (DSX-M80)

Power requirements: 12 V DC boat battery (negative ground (earth))

Rated current consumption: 10 A

Dimensions:

Approx. 178 mm x 50 mm x 177 mm (7 1/8 in x 2 in x 7 in) (w/h/d)

Mounting dimensions:

Approx. 182 mm x 53 mm x 160 mm (7 1/4 in x 2 1/8 in x 6 3/8 in) (w/h/d)

Mass: Approx. 1.0 kg (2 lb 4 oz)

Package contents:

Main unit (1)

Remote commander (1):

RM-X231 (DSX-GS80: US, CND)

RM-X232 (DSX-M80)

Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

DSX-GS80: US, CND

FM/AM Bluetooth® CAR AUDIO

DSX-GS80: AEP, UK

FM/AM/LW Bluetooth® CAR AUDIO

DSX-M80

FM/AM Bluetooth® MARINE AUDIO

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libFLAC

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NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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SECTION 1 SERVICING NOTES

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For Authorized Service

The **SERVICING NOTES** contains important information for servicing. Be sure to read this section before repairing the unit.

UNLEADED SOLDER

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

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

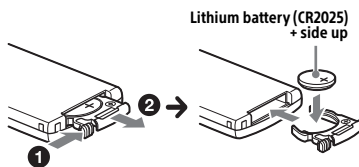
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

REPLACING THE LITHIUM BATTERY (CR2025) OF THE REMOTE COMMANDER (GS80: US, CND/M80 only)

When the battery becomes weak, the range of the remote commander becomes shorter.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.



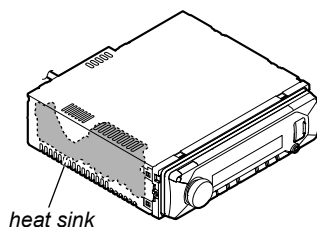
Note on the lithium battery

Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

NOTE FOR THE HEAT SINK

This unit is installed with a heat sink inside the chassis on the left side.

If you touch this unit immediately after checking the operation of this unit, be careful not to touch the heat sink on the left side.



DESTINATION ABBREVIATIONS

The following abbreviations for model destinations are used in this service manual.

- Abbreviations

DSX-GS80

US, CND: US, Canadian and Latin American area (Puerto Rico) models

AEP, UK : European area, East European area, CIS area (Moldova) and Middle East area (Israel) models

DSX-M80

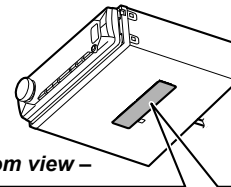
US, CND, AEP, UK, E:

US, Canadian, Latin American area (Puerto Rico), European area, East European area, CIS area (Moldova) and African area (South Africa) models

MODEL IDENTIFICATION

Check the model number label pasted on the bottom side of the main unit.

Note: Print content on the model number label may be changed in the mid-way of production.



– Bottom view –

DSX-GS80 US, CND	
	
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.	
MODEL : DSX-GS80 FM/AM Bluetooth® CAR AUDIO MADE IN THAILAND / FABRIQUE EN THAILANDE DC 12 V - NEGATIVE GROUND (0 A) SPEAKER IMPEDANCE 2 Ω / 4 Ω TO 8 Ω X 4 FRONT USB: 5 V --- REAR USB: 5 V --- REM OUT: 12 V ---	FCC ID: AK8DSXGS80 IC : 4098-DSXGS80 SERIAL NO. []
5-007-456-01	
AEP, UK	
	
DC 12 V - NEGATIVE GROUND (0 A) SPEAKER IMPEDANCE 2 Ω / 4 Ω TO 8 Ω X 4 FRONT USB: 5 V --- REAR USB: 5 V --- REM OUT: 12 V ---	
MODEL : DSX-GS80 FM/AM/LW Bluetooth® CAR AUDIO MADE IN THAILAND / FABRIQUE EN THAILANDE	Manufacturer: Sony Corporation Eu Importer: Sony Europe B.V. De Willelaan 7-01, 1030 Zaventem, Belgium CE 10R-0510738 SERIAL NO. []
5-007-457-01	
DSX-M80 All destinations	
	
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.	
MODEL : DSX-M80 FM/AM Bluetooth® MARINE AUDIO MADE IN THAILAND / FABRIQUE EN THAILANDE DC 12 V - NEGATIVE GROUND (0 A) SPEAKER IMPEDANCE 2 Ω / 4 Ω TO 8 Ω X 4 FRONT USB: 5 V --- REAR USB: 5 V --- REM OUT: 12 V ---	FCC ID: AK8DSXM80 IC : 4098-DSXM80 SERIAL NO. []
5-007-459-01	

NOTE OF REPLACING THE MAIN BOARD

When replacing the MAIN board, there are point to notes and necessary to perform a few work. Be sure to refer to the following.

Required works:

- Destination setting
(Refer to “DESTINATION SETTING METHOD” on the right)
- Initializing
(Refer to “INITIALIZATION METHOD” on page 8)

Operation check works:

- BLUETOOTH FUNCTION CHECKING METHOD USING A SMARTPHONE OR CELLULAR PHONE (page 10)
- OPERATION CHECK OF THE USB (page 11)

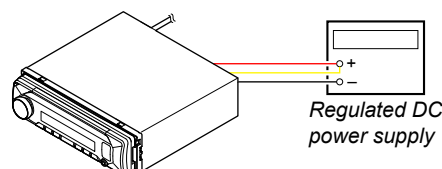
DESTINATION SETTING METHOD

When the MAIN board is replaced, the destination setting is necessary. Set destination according to the procedure below.

Note 1: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

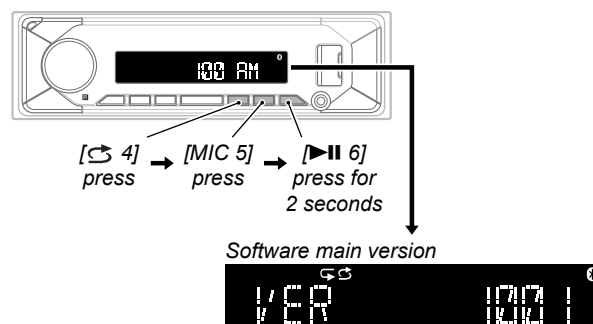
Setting procedure:

1. Connect the power cord to the regulated DC power supply, and turn the power on of this unit.

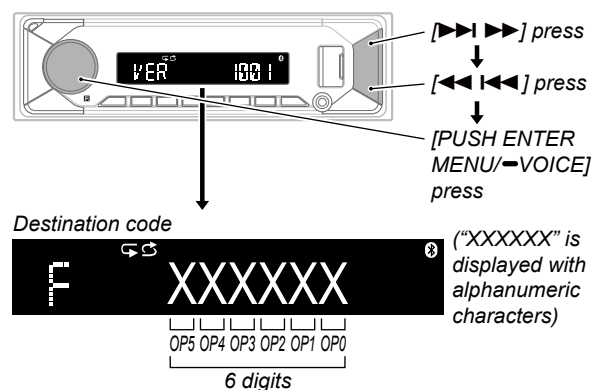


2. Press and hold the [■OFF SRC] button to the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [⏏ 4] → [MIC 5] → [▶▶ 6] (press only the [▶▶ 6] button for 2 seconds) and display the software main version.
(Displayed characters/values in the following figure are example)

Note 2: There is not displayed “AM”, depending on the destination.



3. In the state in which the software main version is displayed on the liquid crystal display, enter the destination setting mode by pressing the buttons in order of the [▶▶▶ ▶▶▶] → [◀◀▶ ▶◀◀] → [PUSH ENTER MENU/■VOICE].
(Displayed characters/values in the following figure are example)



– Continued on next page –

4. Input the 6 digits destination code.

Destination Code

Model	Destination	OP5	OP4	OP3	OP2	OP1	OP0
DSX-GS80	US, CND	7	2	8	3	1	2
	AEP, UK	3	2	8	1	1	1
DSX-M80	All destinations	F	2	8	3	2	0

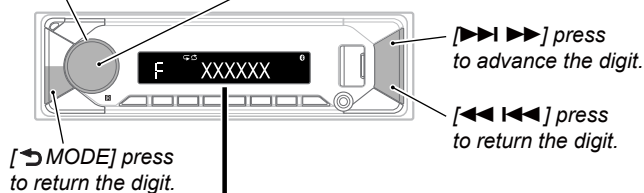
Rotate the control dial, and select the alphanumeric character of "0 to F".

The digit advances by pressing the [PUSH ENTER MENU/VOICE] or [▶▶▶▶] button.

The digit returns by pressing the [↶ MODE] or [◀◀◀◀] button.

Control dial rotate to select the alphanumeric characters.

[PUSH ENTER MENU/VOICE] press to advance the digit.



Destination code (example: US, CND of GS80)



Note 3: Destination code input can also be done with the remote commander supplied with this unit.

Instead of rotating the control dial, press the [▲] or [▼] button.

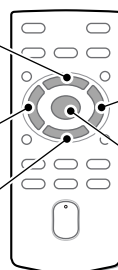
To advance the digit for press the [▶] or [ENTER] button, to return the digit for press the [◀] button.

Note 4: The model to which the remote commander is not supplied can also be operated by using the optional remote commander.

[▲] press to select the alphanumeric characters.

[◀] press to return the digit.

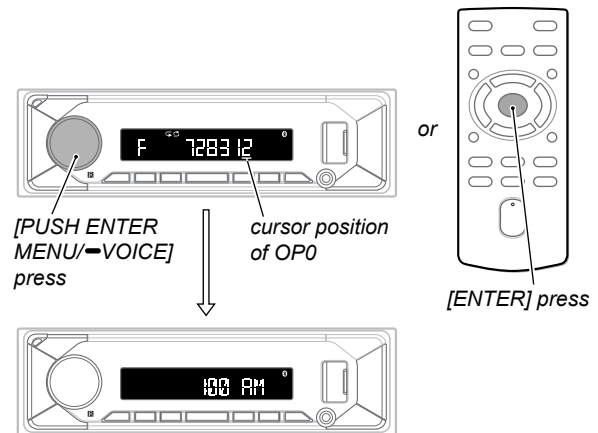
[▼] press to select the alphanumeric characters.



[▶] press to advance the digit.

[ENTER] press to advance the digit.

5. The setting is completed by pressing the [PUSH ENTER MENU/VOICE] button on the main unit or [ENTER] button on the remote commander at the state of cursor position of "OP0", then the display turns off, the initialization operation is done, and the display returns to the clock display.



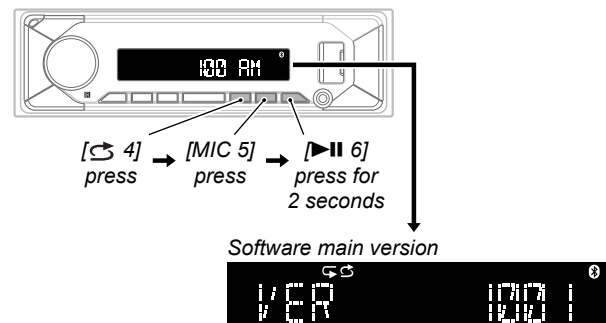
Note 5: There is not displayed "AM", depending on the destination.

6. Perform the check whether there is no mistake in the destination code.

Press and hold the [OFF SRC] button to the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [↶ 4] → [MIC 5] → [▶▶ 6] (press only the [▶▶ 6] button for 2 seconds) and display the software main version.

(Displayed characters/values in the following figure are example)

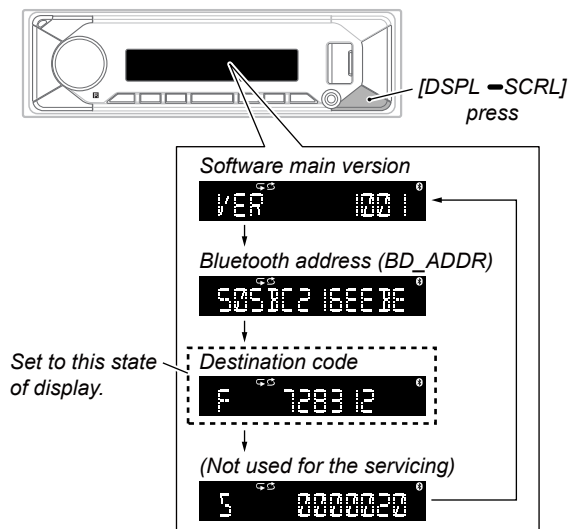
Note 6: There is not displayed "AM", depending on the destination.



Software main version

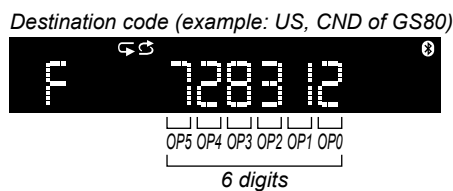
– Continued on next page –

7. In the state in which the software main version is displayed on the liquid crystal display, enter the destination code display mode by pressing the [DSPL ➡ SCRL] button 2 times. (Displayed characters/values in the following figure are example)

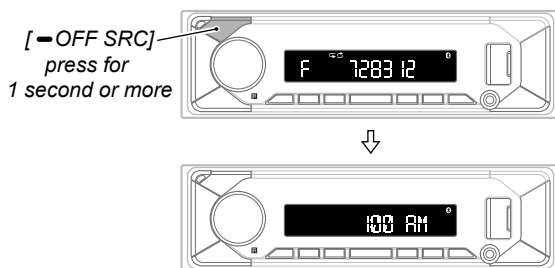


8. Confirm the alphanumeric character of 6 digits on the liquid crystal display is a value set in step 4.

Note 7: If the setting is incorrect, start from step 2 again.



9. Press the [➡ OFF SRC] button for 1 second or more to execute reset and return to the normal condition.



Note 8: There is not displayed "AM", depending on the destination.

10. This completes the destination setting work.

SETTING THE AREA/REGION (GS80: AEP, UK only)

If changing the area/region setting, set the area/region according to the procedure below.

Procedure:

Initializing the unit will erase the clock settings and all your settings stored in the backup memory.

[INITIALIZE] appears only while the source is off and the clock is displayed.

- 1 Press MENU, rotate the control dial to select [GENERAL], then press it.
- 2 Rotate the control dial to select [INITIALIZE], then press it.
- 3 Rotate the control dial to select [INIT-YES], then press it.

Note

Initialize the unit before discarding the unit to prevent the leakage of phone information.

Setting the area/region

After initializing the unit, the area/region setting display appears.

- 1 Press ENTER while [AREA] is displayed.
The area/region currently set appears.
- 2 Rotate the control dial to select [EUROPE] or [RUSSIA], then press it.
- 3 Rotate the control dial to select [YES] or [NO], then press it.
If the setting area/region is changed, the unit will initialize, then the clock is displayed.

This setting can be configured in the general setup menu.

INITIALIZATION METHOD

Refer to the following procedure when initializing this unit.
When this unit is initialized, the clock settings and some saved contents can be deleted.

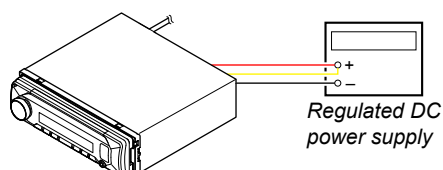
Note 1: After this unit has been repaired, perform this unit initialization before installing this unit in the car.

Note 2: After performing a BLUETOOTH connection, be sure to initialize this unit and clear the connection history.

Note 3: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

Initialization procedure:

1. Connect the power cord to the regulated DC power supply, and turn the power on of this unit.

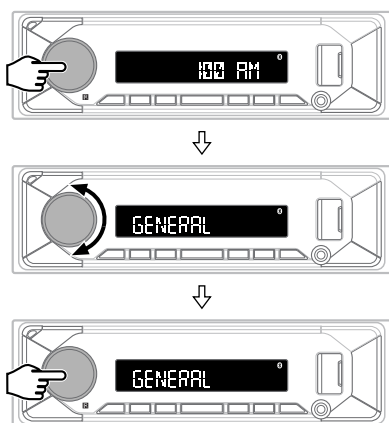


2. Press and hold the [OFF SRC] button to the state of source off (the clock is displayed on the liquid crystal display).

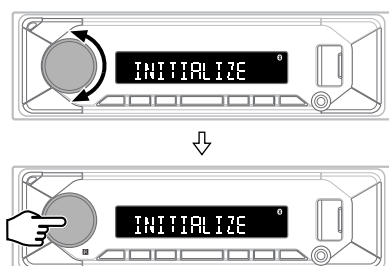
Note 4: There is not displayed “AM”, depending on the destination.



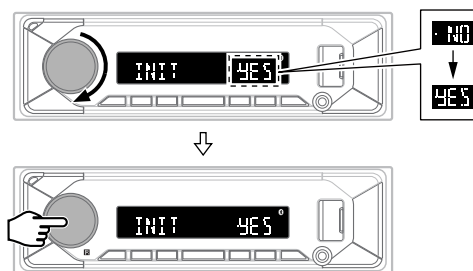
3. Press the [PUSH ENTER MENU/VOICE] button, and rotate the control dial to display the “GENERAL”. Then press the [PUSH ENTER MENU/VOICE] button again. (Displayed characters/values in the following figure are example)



4. Rotate the control dial to display the “INITIALIZE” and press the [PUSH ENTER MENU/VOICE] button.

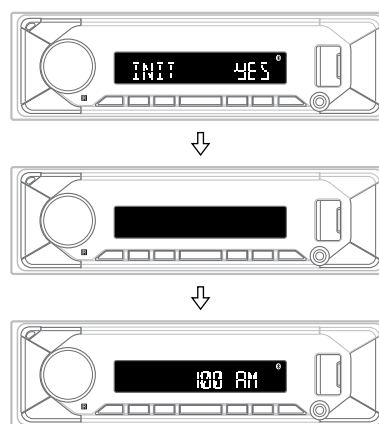


5. Rotate the control dial clockwise and switch “INIT -NO” to “INIT -YES”, then press the [PUSH ENTER MENU/VOICE] button.



6. This unit automatically restarts, the clock is displayed and initialization is complete.

Note 5: There is not displayed “AM”, depending on the destination.



BLUETOOTH CONNECTION METHOD

Refer to the following procedure when connecting this unit and a BLUETOOTH device via BLUETOOTH connection to check the operation.

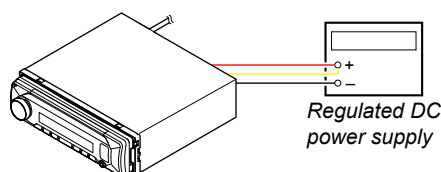
This unit can connect two BLUETOOTH devices (two mobile phones, or a mobile phone and an audio device).

Note 1: After perform a BLUETOOTH connection, be sure to clear the connection history by referring to “INITIALIZATION METHOD” on page 8.

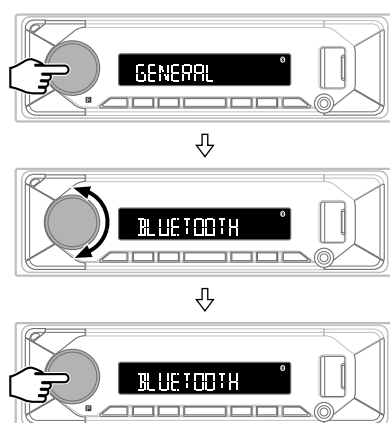
Note 2: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

Connection procedure:

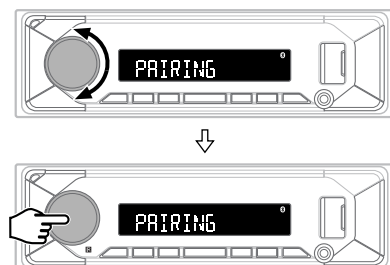
1. Connect the power cord to the regulated DC power supply, and turn the power on of this unit.



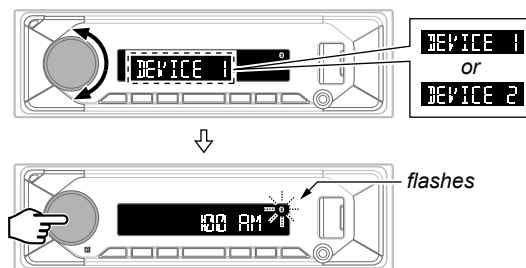
2. Press the [PUSH ENTER MENU/VOICE] button, and rotate the control dial to display the “BLUETOOTH”. Then press the [PUSH ENTER MENU/VOICE] button again.



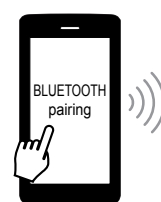
3. Rotate the control dial to display the “PAIRING” and press the [PUSH ENTER MENU/VOICE] button.



4. Rotate the control dial to display the “DEVICE 1” or “DEVICE 2” and press the [PUSH ENTER MENU/VOICE] button. (This unit enters to the pairing standby state, and the BLUETOOTH logo (Bluetooth symbol) in the display window of this unit is flashes)



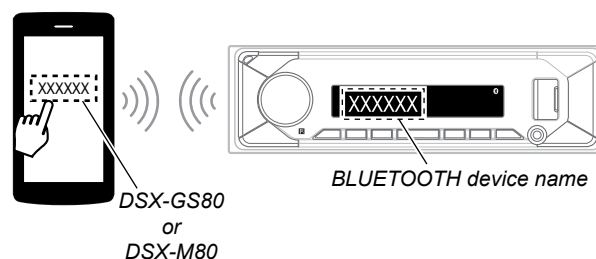
5. Operate the BLUETOOTH device you want to pair with this unit to detect this unit.



6. Select the model name of this unit displayed on the screen of the BLUETOOTH device, and perform the pairing. (During pairing, the BLUETOOTH logo (Bluetooth symbol) in the display window of this unit is lighting state)

Note 3: If passkey input is required on the BLUETOOTH device, input “0000”.

Note 4: “DEVICE 1” or “DEVICE 2” in the display window of this unit will be changed to the paired device name after pairing is complete.



7. The “BLUETOOTH logo” changes from flashing to lighting and the connection with the BLUETOOTH device is completed.

BLUETOOTH FUNCTION CHECKING METHOD USING A SMARTPHONE OR CELLULAR PHONE

1. Required Equipment

- This unit to be tested
- BLUETOOTH compatible smartphone or cellular phone
- BLUETOOTH audio devices (SONY NWZ-A826, or select from connectable smartphone, cellular phones or audio devices list)
- Speaker connection (at least Front L/R ch)
- DC power supply (12 V)

2. Preparation

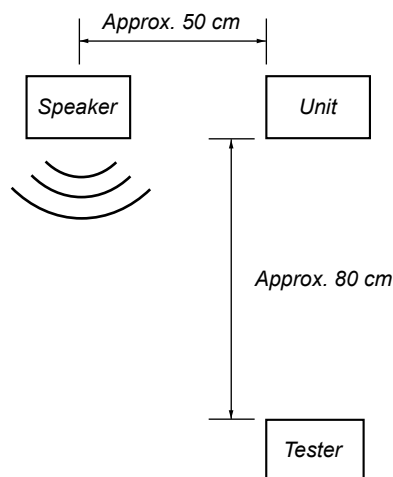
- Confirm the setting of this unit and note down it.
- Press the [PUSH ENTER MENU/VOICE] button, rotate the control dial to select, and determine in the following order, then confirm that the BLUETOOTH logo (BT) is flashing. "BLUETOOTH" → "PAIRING" → "DEVICE 1" (or "DEVICE 2")
- Turn on the BLUETOOTH function of the smartphone or cellular phone.

3. Test Environment

- No other BLUETOOTH device is making a communication in the periphery (within 20 m).
- No other this unit are supplied with electric power.
- There are no two or more wireless LAN access points in the periphery (with 50 m) (one is OK).
- The set should be tested in a place such as a meeting room, free from ambient noise.
- The speaker at the far end should be in a place such as another meeting room separated acoustically.

4. Setting

Install this unit on the desktop.



5. Precautions

Beware of the following points when conducting the talking test:

- There is no fault if a talking can be made by adjusting appropriately the volume of the telephone of the other party and the smartphone or cellular phone connected through the BLUETOOTH, besides the setup of this unit.
- The speaker's voice will become loud naturally if the periphery is noisy, or become low if quiet (even though the speaker intends to talk on the same volume level).
- The speaker's voice will become loud naturally if the other party's voice is loud.

6. BLUETOOTH Phone (Hands Free) Function Check

1. Search for this unit from the BLUETOOTH device (smartphone or cellular phone), and confirm whether this unit (model name) is displayed.
2. Search for the distance of this unit and the BLUETOOTH device (smartphone or cellular phone) about 5 m apart. Confirm whether the this unit is displayed after it searches.
3. Do the pairing of the smartphone or cellular phone and this unit. (If the input of the passkey is required, to enter the "0000")
4. Connect the smartphone or cellular phone with this unit, and confirm the "HF" icon (H) is lights.
5. Confirm the connection continues even if the distance of the smartphone or cellular phone and this unit is separated by about 5 m.
6. Set this unit except the "BT PHONE" source, and call the smartphone or cellular phone connected with this unit. Confirm the automatic change of this unit into "BT PHONE" source, and the change into the screen for incoming calls. Confirm the ring tone is heard from the front speaker.
7. Take a phone call (press the [CALL] button), and start a conversation. Confirm the other person voice is heard from the speaker. Speak toward an external microphone at the following condition, and confirm the other party hears its voice. Compare the sound quality with a normal set. Confirm that there is no big difference.
8. Turn on ACC from off, and confirm whether this unit connects BLUETOOTH with the smartphone or cellular phone again.

Note: Depending on the smartphone or cellular phone, it might not reconnect automatically when ACC is turned on.

7. BLUETOOTH Audio Function Check

Note 1: Depending on the connecting BT Audio device, track information (e.g. track name, playback time) can be on display.

If the device doesn't support AVRCP1.3, or, if AVRCP1.3 feature of the device has not been validated with this unit, the track information won't be shown.

Even if there is no track information on display during playback of an AVRCP1.3 device, it is not a failure of this unit.

1. Connect the BLUETOOTH audio device (or smartphone, cellular phone with BLUETOOTH audio function) with this unit, and confirm the "Audio Streaming" icon (A) is lights.
2. Playback the BLUETOOTH audio. Confirm the sound is emitted from this unit when this unit is switched to "BT AUDIO" source.
3. Confirm whether BLUETOOTH audio can be controlled by operating this unit (the [▶▶], [◀◀] and [⏮ 6] buttons operation).

Note 2: Varies depending on the connected BLUETOOTH audio device.

8. What to Do after Checking

- After checking, this unit to execute initialization (refer to "INITIALIZATION METHOD" on page 8). (Connected device information is deleted)

OPERATION CHECK OF THE USB

Connect a USB device to this unit for checking the USB operation of this unit.

Refer to the support site written in the operating instructions for the details about the compatibility of a USB device.

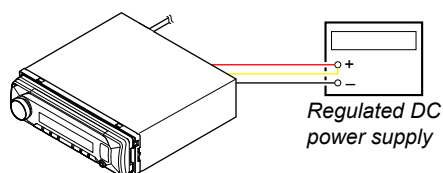
CANCELING THE DEMONSTRATION MODE

To cancel the demonstration, refer to the following procedure.

Note 1: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

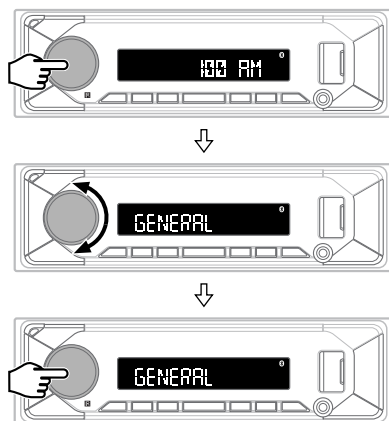
Procedure:

1. Connect the power cord to the regulated DC power supply, and turn the power on of this unit.

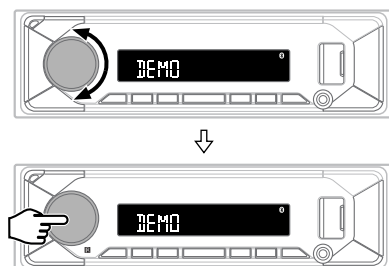


2. Press the [PUSH ENTER MENU/VOICE] button, and rotate the control dial to display the "GENERAL". Then press the [PUSH ENTER MENU/VOICE] button again.

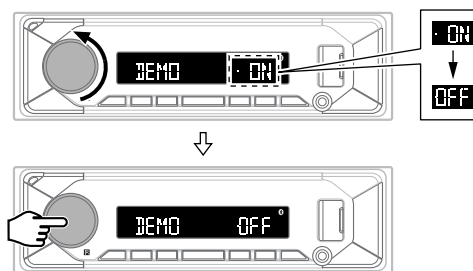
Note 2: There is not displayed "AM", depending on the destination.



3. Rotate the control dial to display the "DEMO" and press the [PUSH ENTER MENU/VOICE] button.



4. Rotate the control dial counterclockwise and switch "DEMO -ON" to "DEMO -OFF", then press the [PUSH ENTER MENU/VOICE] button.



5. Press the [MODE] button twice to return to the normal display.

Note 3: There is not displayed "AM", depending on the destination.



NOTE OF REPLACING THE ELECTRICAL PARTS ON EACH BOARD FOR REPAIRING

Among the parts listed in the electrical parts list (page 55 to 65), parts described as “Not supplied” can not be replaced for repairing individually.

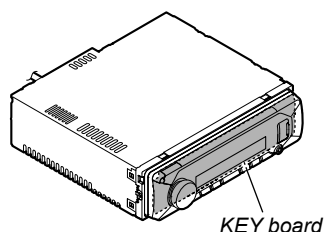
If a part that can not be replaced for repair is defective, replace the complete mounted board or the whole parts including the applicable board with a new part.

ABOUT REPAIRING OF THE KEY BOARD

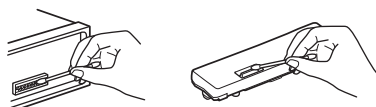
Individual electrical parts that mounted on the KEY board cannot be replaced.

When the KEY board is defective, replace the front panel assy (Exploded Views: Ref. No. FP1) including the KEY board with new parts.

Also, block diagram, schematic diagram and printed wiring board of the KEY board have not described in this service manual.

**CLEANING THE CONNECTORS**

Avoid touching the connectors directly. The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel and clean the connectors with a cotton swab. Do not apply too much force. Otherwise, the connectors may be damaged.

**Note**

For safety, do not remove the front panel while driving.

SECTION 2 GENERAL

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This section is extracted from
operating instruction.

(DSX-GS80: US, CND)

Connection/Installation

Cautions

- Run all ground (earth) leads to a common ground (earth) point.
- Do not get the leads trapped under a screw, or caught in moving parts (e.g., seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Note on the power supply lead (yellow)

When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.

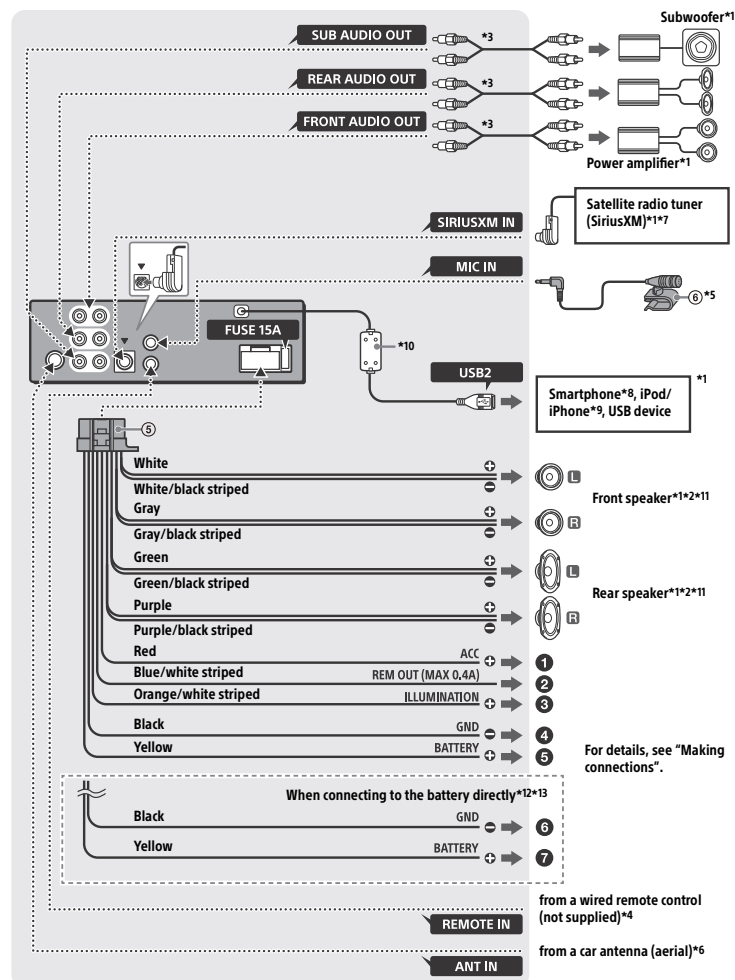
Note on installing in cars with a start-stop system

The unit may restart when starting the engine from start-stop. In this case, turn off the start-stop system of your car.

Mounting angle adjustment

Adjust the mounting angle to less than 30°.

Connection



*1 Not supplied

*2 Speaker impedance: 4 Ω to 8 Ω × 4

*3 RCA pin cord (not supplied)

*4 Depending on the type of car, use an adaptor for a wired remote control (not supplied). For details on using the wired remote control, see "Using the wired remote control".

*5 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet. For details on installing the microphone, see "Installing the microphone".

*6 Depending on the type of car, use an adaptor (not supplied) if the antenna (aerial) connector does not fit.

*7 For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner.

*8 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.

*9 To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).

*10 Ferrite sleeve

*11 Use speakers with 50W RMS or higher power input capacity. Using Sony XB series full range speakers is recommended.

*12 When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.

*13 Before connecting, arranging the yellow and black leads of the power supply leads ⑤ is required.

Making connections

- 1 To the +12 V power terminal which is energized when the ignition switch is set to the accessory position

If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

- 2 To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster

It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).

To AMP REMOTE IN of an optional power amplifier

This connection is only for amplifiers and a power antenna (aerial). Connecting any other system may damage the unit.

- 3 To a car's illumination signal

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

- 4 To a common ground (earth) point

First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

- 5 To the +12 V power terminal which is energized at all times

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

When connecting to the battery directly

When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.

- 6 to a metal point of car

- 7 to the positive battery terminal

Notes

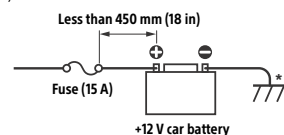
• Despite connecting to the power supply lead of the car, the unit may not fully provide its performance due to insufficient power. In this case, make the power connection to the battery directly.

• All power wires connected to the positive battery post should be fused within 450 mm (18 in) of the battery post, and before they pass through any metal.

• Make sure that the car's battery wires connected to the car (ground (earth) to chassis)* are of a wire gauge at least equal to that of the main power wire connected from the battery to the head unit.

• During full-power operation, a current of more than 15 A will run through the system. Therefore, make sure that the wires to be connected to the +12 V and GND terminals of this unit are at least 14-Gauge (AWG14) or have a sectional area of more than 2 mm² (3/32 in).

When making the speaker parallel connection, use wires with more than 12-Gauge (AWG12) or wires that have a sectional area of more than 3.5 mm² (5/32 in).



If you have any questions or problems concerning the connection, consult the dealer for details.

DSX-GS80/M80

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(DSX-GS80: US, CND)

Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

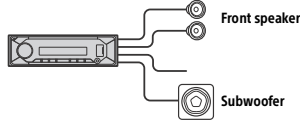
Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Subwoofer Easy Connection

You can use a subwoofer without a power amplifier when it is connected to a rear speaker lead.

To enable the connection, set [SUBW MODE] in [SUBW DIRECT] to [1] to [3].



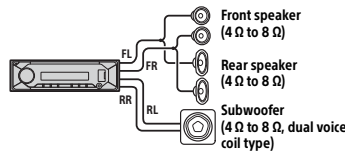
Note

Use a subwoofer with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Speaker Parallel Connection

When making the speaker parallel connection for a high volume playback, be sure to:

- Set [SPEAKER LOAD] in [GENERAL] to [2 OHM].

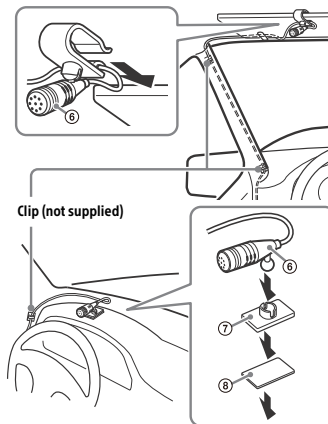


Notes

- When using a subwoofer with dual voice coil, or using a subwoofer by connecting the right and left rear speaker leads, be sure to set [SPEAKER LOAD] in [GENERAL] to [2 OHM].
- To exert the speaker's potential, make the power connection to the battery directly.

Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑥.



Cautions

- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from interfering with your driving operations.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes

- When mounting on the dashboard, remove the visor clip carefully from the microphone ⑥, then attach the flat-mount base ⑦ to the microphone ⑥.
- Before attaching the double-sided tape ⑧, clean the surface of the dashboard with a dry cloth.

Using the wired remote control

When using the steering wheel remote control

Installation of the connection cable RC-SR1 (not supplied) is required before use.

- To enable the steering wheel remote control, select [STEERING] → [EDIT CUSTOM] to make the registration.

When the registration completes, the steering wheel remote control becomes available.

Notes on installing the connection cable RC-SR1 (not supplied)

- Refer to the support sites on the back cover for details, then connect each lead properly to the appropriate leads. Making an improper connection may damage the unit.
- Depending on the type of car, be sure to insulate the unused leads with electrical tape for safety.
- Do not connect this cable when the steering wheel remote control is not used.
- Consulting the dealer or an experienced technician for help is recommended.

When using the wired remote control

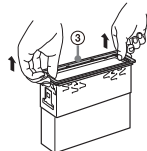
- To enable the wired remote control, set [STRG CONTROL] in [STEERING] to [PRESET].

Installation

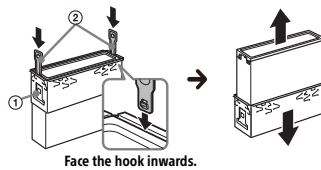
Removing the trim ring and the mounting sleeve

Before installing the unit, remove the trim ring ③ and the mounting sleeve ① from the unit.

- Pinch both edges of the trim ring ③, then pull it out.



- Insert both release keys ② until they click, and pull down the mounting sleeve ①, then pull up the unit to separate.



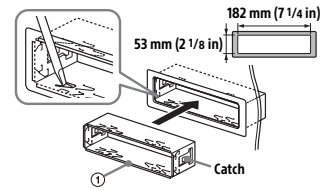
Mounting the unit in the dashboard

- Before installing, make sure the catches on both sides of the mounting sleeve ① are bent inwards 2 mm (3/32 in).
- For Japanese cars, see "Mounting the unit in a Japanese car".

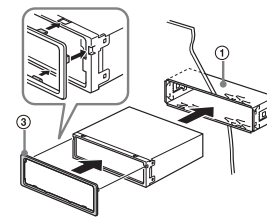
CAUTION

Do not touch the left side of the unit when removing from the dashboard. The heatsink on the left side of the unit remains hot right after use.

- Position the mounting sleeve ① inside the dashboard, then bend the claws outward for a tight fit.



- Mount the unit onto the mounting sleeve ①, then attach the trim ring ③.



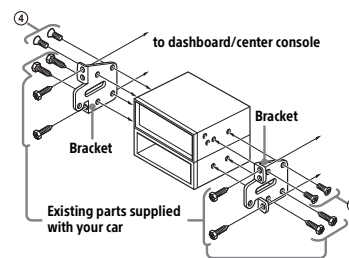
Notes

- If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.
- Make sure the 4 catches on the trim ring ③ are properly engaged in the slots of the unit.

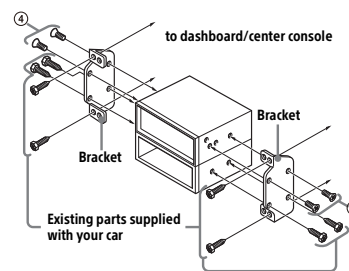
Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

TOYOTA



NISSAN

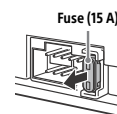


Note

To prevent malfunction, install only with the mounting screws ④.

Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



(DSX-GS80: AEP, UK)

Connection/Installation

Cautions

- Run all ground (earth) leads to a common ground (earth) point.
- Do not get the leads trapped under a screw, or caught in moving parts (e.g., seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power supply leads ⑥ to the unit and speakers before connecting it to the auxiliary power connector.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Note on the power supply lead (yellow)

When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.

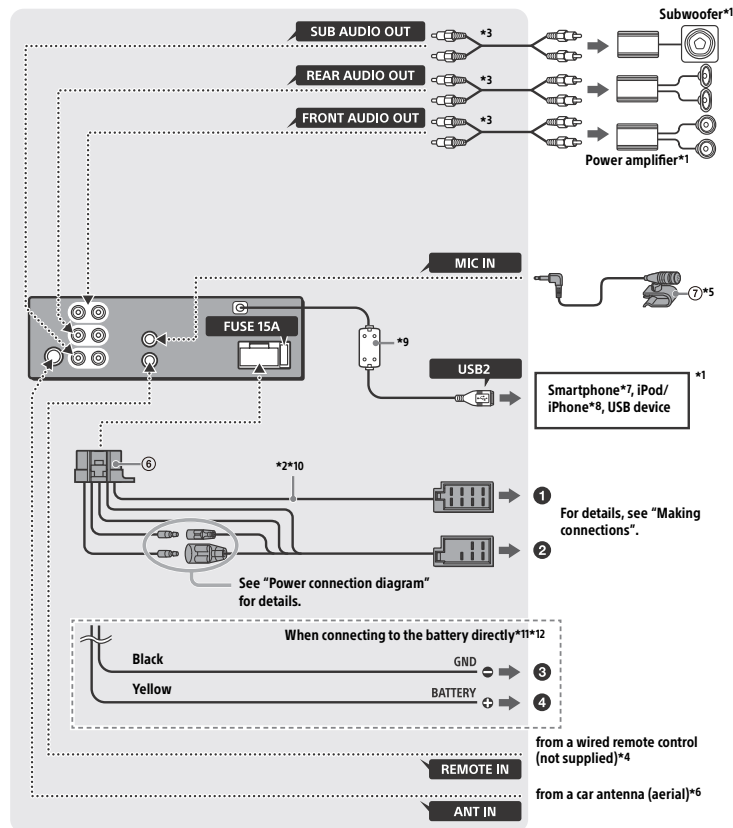
Note on installing in cars with a start-stop system

The unit may restart when starting the engine from start-stop. In this case, turn off the start-stop system of your car.

Mounting angle adjustment

Adjust the mounting angle to less than 30°.

Connection



*1 Not supplied

*2 Speaker impedance: 4 Ω to 8 Ω × 4

*3 RCA pin cord (not supplied)

*4 Depending on the type of car, use an adaptor for a wired remote control (not supplied). For details on using the wired remote control, see "Using the wired remote control".

*5 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet. For details on installing the microphone, see "Installing the microphone".

*6 Depending on the type of car, use an adaptor (not supplied) if the antenna (aerial) connector does not fit.

*7 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.

*8 To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).

*9 Ferrite sleeve

*10 Use speakers with 50W RMS or higher power input capacity. Using Sony XB series full range speakers is recommended.

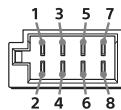
*11 When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.

*12 Before connection, arrange the yellow and black leads of the power supply leads ⑥ is required.

Making connections

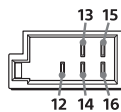
If you have a power antenna (aerial) without a relay box, connecting this unit with the power supply leads ⑥ may damage the antenna (aerial).

① To the car's speaker connector



1	Rear speaker (right)	⊕	Purple
2		⊖	Purple/black striped
3	Front speaker (right)	⊕	Gray
4		⊖	Gray/black striped
5	Front speaker (left)	⊕	White
6		⊖	White/black striped
7	Rear speaker (left)	⊕	Green
8		⊖	Green/black striped

② To the car's power connector



12	continuous power supply	Yellow
13	power antenna (aerial) /power amplifier control (REM OUT)	Blue/white striped
14	switched illumination power supply	Orange/white striped
15	switched power supply	Red
16	ground (earth)	Black

When connecting to the battery directly

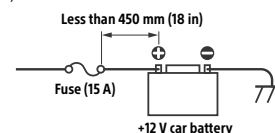
When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.

③ to a metal point of car

④ to the positive battery terminal

Notes

- Despite connecting to the power supply lead of the car, the unit may not fully provide its performance due to insufficient power. In this case, make the power connection to the battery directly.
 - All power wires connected to the positive battery post should be fused within 450 mm (18 in) of the battery post, and before they pass through any metal.
 - Make sure that the car's battery wires connected to the car (ground (earth) to chassis)* are of a wire gauge at least equal to that of the main power wire connected from the battery to the head unit.
 - During full-power operation, a current of more than 15 A will run through the system. Therefore, make sure that the wires to be connected to the +12 V and GND terminals of this unit are at least 14-Gauge (AWG14) or have a sectional area of more than 2 mm² (3/32 in).
- When making the speaker parallel connection, use wires with more than 12-Gauge (AWG12) or wires that have a sectional area of more than 3.5 mm² (5/32 in).



If you have any questions or problems concerning the connection, consult the dealer for details.

(DSX-GS80: AEP, UK)

Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

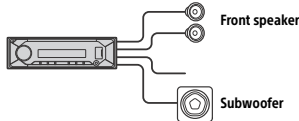
Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Subwoofer Easy Connection

You can use a subwoofer without a power amplifier when it is connected to a rear speaker lead.

To enable the connection, set [SUBW MODE] in [SUBW DIRECT] to [1] to [3].



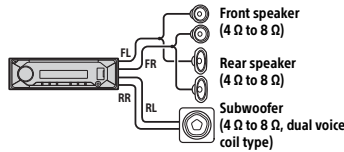
Notes

- Preparation of the rear speaker leads is required.
- Use a subwoofer with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Speaker Parallel Connection

When making the speaker parallel connection for a high volume playback, be sure to:

- Set [SPEAKER LOAD] in [GENERAL] to [2 OHM].



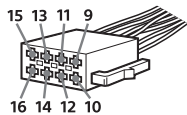
Notes

- When using a subwoofer with dual voice coil, or using a subwoofer by connecting the right and left rear speaker leads, be sure to set [SPEAKER LOAD] in [GENERAL] to [2 OHM].
- To exert the speaker's potential, make the power connection to the battery directly.

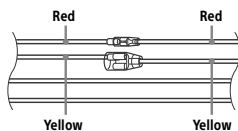
Power connection diagram

Check your car's auxiliary power connector, and match the connections of leads correctly depending on the car.

Auxiliary power connector

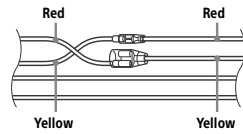


Common connection



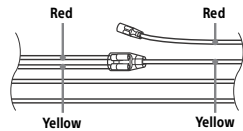
12	continuous power supply	Yellow
15	switched power supply	Red

When the positions of the red and yellow leads are inverted



12	switched power supply	Yellow
15	continuous power supply	Red

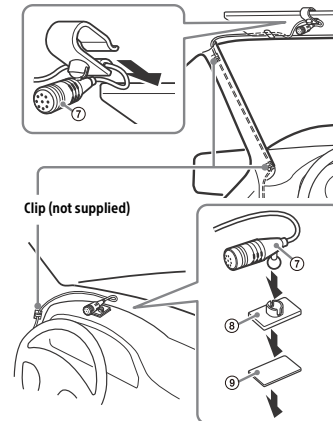
When the car without ACC position



After matching the connections and switching power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, consult the car dealer.

Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑦.



Cautions

- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from interfering with your driving operations.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

Notes

- When mounting on the dashboard, remove the visor clip carefully from the microphone ⑦, then attach the flat-mount base ⑧ to the microphone ⑦.
- Before attaching the double-sided tape ⑨ clean the surface of the dashboard with a dry cloth.

Using the wired remote control

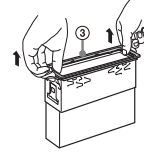
- 1 To enable the wired remote control, set [STRG CONTROL] in [STEERING] to [PRESET].

Installation

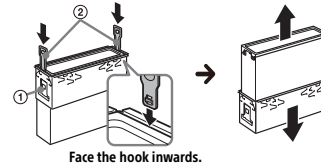
Removing the trim ring and the mounting sleeve

Before installing the unit, remove the trim ring ③ and the mounting sleeve ① from the unit.

- 1 Pinch both edges of the trim ring ③, then pull it out.



- 2 Insert both release keys ② until they click, and pull down the mounting sleeve ①, then pull up the unit to separate.



Face the hook inwards.

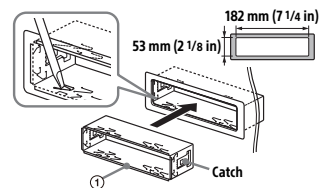
Mounting the unit in the dashboard

Before installing, make sure the catches on both sides of the mounting sleeve ① are bent inwards 2 mm (3/32 in).

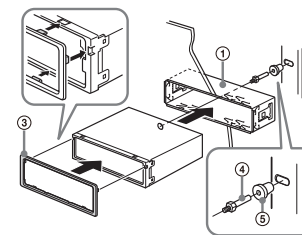
CAUTION

Do not touch the left side of the unit when removing from the dashboard. The heatsink on the left side of the unit remains hot right after use.

- 1 Position the mounting sleeve ① inside the dashboard, then bend the claws outward for a tight fit.



- 2 Mount the unit onto the mounting sleeve ①, then attach the trim ring ③.

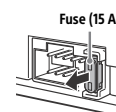


Notes

- If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.
- Make sure the 4 catches on the trim ring ③ are properly engaged in the slots of the unit.

Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



(DSX-M80)

Connection/Installation

Cautions

- Run all ground (earth) leads to a common ground (earth) point.
- Do not get the leads trapped under a screw, or caught in moving parts (e.g., seat railing).
- Before making connections, turn the boat's ignition off to avoid short circuits.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Choose the installation location carefully so that the unit will not interfere with normal boating or car driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Select carefully the mounting location to avoid internal damage by water entering the unit. Areas subject to water splashes should be avoided. The Waterproof Car Stereo Cover (not supplied) is recommended.
- Use only the supplied mounting hardware for a safe and secure installation.

Note on the power supply lead (yellow)

When connecting this unit in combination with other stereo components, the amperage rating of the boat circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.

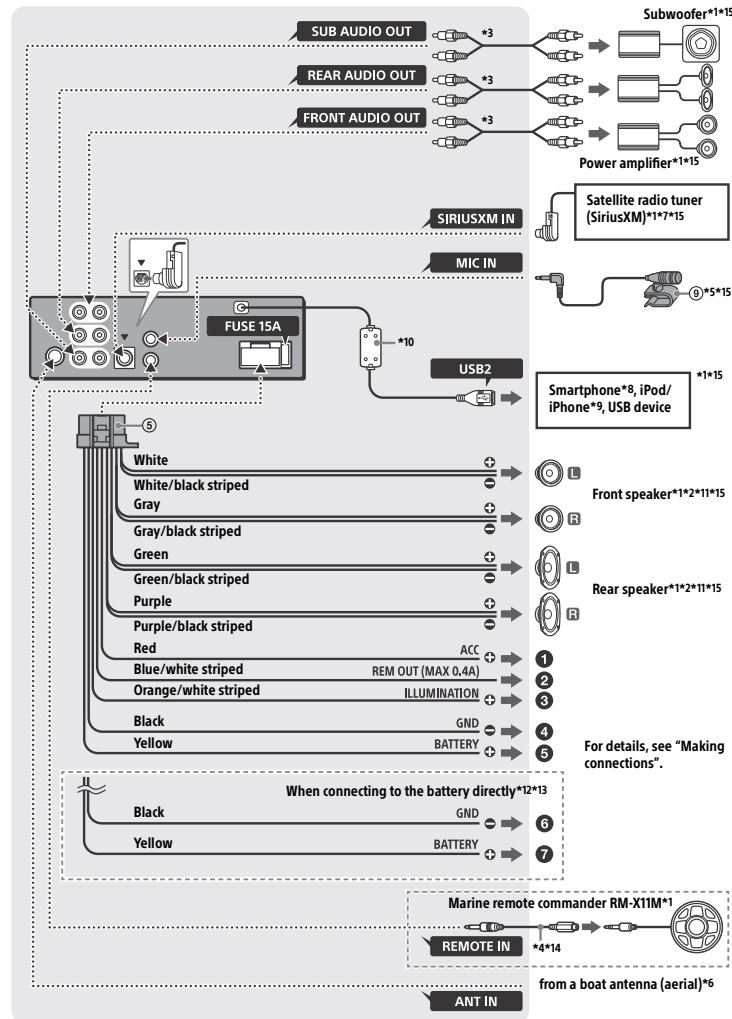
Note on installing in boats with a start-stop system

The unit may restart when starting the engine from start-stop. In this case, turn off the start-stop system of your boat.

Mounting angle adjustment

Adjust the mounting angle to less than 30°.

Connection



*1 Not supplied

*2 Speaker impedance: 4 Ω to 8 Ω × 4

*3 RCA pin cord (not supplied)

*4 Depending on the type of boat, use an adaptor for a wired remote control (not supplied). For details on using the wired remote control, see "Using the wired remote control".

*5 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet. For details on installing the microphone, see "Installing the microphone".

*6 Depending on the type of boat, use an adaptor (not supplied) if the antenna (aerial) connector does not fit.

*7 For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner.

*8 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.

*9 To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).

*10 Ferrite sleeve

*11 Use speakers with 50W RMS or higher power input capacity. Using Sony XB series full range speakers is recommended.

*12 When the amperage rating of the fuse used on your boat is 10 A, make the power connection to the battery directly to avoid short circuits.

*13 Before connection, arranging the yellow and black leads of the power supply leads ⑤ is required.

*14 Supplied with the marine remote commander RM-X11M.

*15 Not waterproof

Making connections

① To the +12 V power terminal which is energized when the ignition switch is set to the accessory position

If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

② To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster

It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).

To AMP REMOTE IN of an optional power amplifier

This connection is only for amplifiers and a power antenna (aerial). Connecting any other system may damage the unit.

③ To a boat's illumination signal

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

④ To a common ground (earth) point

First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

⑤ To the +12 V power terminal which is energized at all times

Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

When connecting to the battery directly

When the amperage rating of the fuse used on your boat is 10 A, make the power connection to the battery directly to avoid short circuits.

⑥ to a metal point of boat**⑦ to the positive battery terminal****Notes**

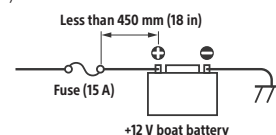
• Despite connecting to the power supply lead of the boat, the unit may not fully provide its performance due to insufficient power. In this case, make the power connection to the battery directly.

• All power wires connected to the positive battery post should be fused within 450 mm (18 in) of the battery post, and before they pass through any metal.

• Make sure that the boat battery wires connected to the boat (ground (earth) to chassis)* are of a wire gauge at least equal to that of the main power wire connected from the battery to the head unit.

• During full-power operation, a current of more than 15 A will run through the system. Therefore, make sure that the wires to be connected to the +12 V and GND terminals of this unit are at least 14-Gauge (AWG14) or have a sectional area of more than 2 mm² (3/32 in).

When making the speaker parallel connection, use wires with more than 12-Gauge (AWG12) or wires that have a sectional area of more than 3.5 mm² (5/32 in).



If you have any questions or problems concerning the connection, consult the dealer for details.

DSX-GS80/M80

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For Authorized Servicer

(DSX-M80)

Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

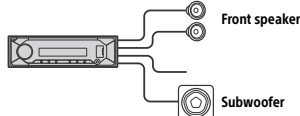
Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Subwoofer Easy Connection

You can use a subwoofer without a power amplifier when it is connected to a rear speaker lead.

To enable the connection, set [SUBW MODE] in [SUBW DIRECT] to [1] to [3].



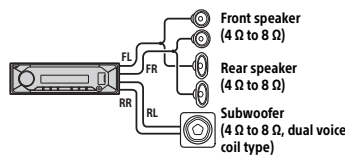
Note

Use a subwoofer with a 2 Ω impedance or 4 Ω to 8 Ω impedance, and with adequate power handling capacities to avoid damage.

Speaker Parallel Connection

When making the speaker parallel connection for a high volume playback, be sure to:

- Set [SPEAKER LOAD] in [GENERAL] to [2 OHM].

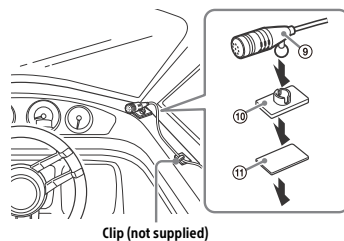


Notes

- When using a subwoofer with dual voice coil, or using a subwoofer by connecting the right and left rear speaker leads, be sure to set [SPEAKER LOAD] in [GENERAL] to [2 OHM].
- To exert the speaker's potential, make the power connection to the battery directly.

Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑨.



Cautions

- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from interfering with your driving operations.
- If any other shock-absorbing equipment is in your boat, contact the store where you purchased this unit, or the boat dealer, before installation.

Notes

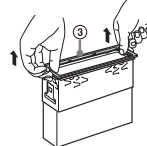
- When mounting on the dashboard, remove the visor clip carefully from the microphone ⑨, then attach the flat-mount base ⑩ to the microphone ⑨.
- Before attaching the double-sided tape ⑪ clean the surface of the dashboard with a dry cloth.

Installation

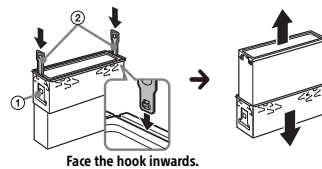
Removing the trim ring and the mounting sleeve

Before installing the unit, remove the trim ring ③ and the mounting sleeve ① from the unit.

- 1 Pinch both edges of the trim ring ③, then pull it out.



- 2 Insert both release keys ② until they click, and pull down the mounting sleeve ①, then pull up the unit to separate.



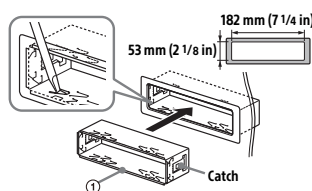
Mounting the unit in the dashboard or the cutout hole on boat

- Before installing, make sure the catches on both sides of the mounting sleeve ① are bent inwards 2 mm (3/32 in).
- For Japanese cars, see "Mounting the unit in a Japanese car".

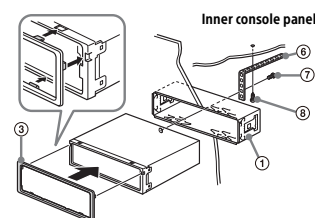
CAUTION

Do not touch the left side of the unit when removing from the dashboard. The heatsink on the left side of the unit remains hot right after use.

- 1 Position the mounting sleeve ① inside the dashboard, then bend the claws outward for a tight fit.



- 2 Mount the unit onto the mounting sleeve ①, then attach the trim ring ③.



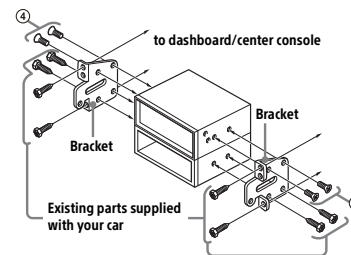
Notes

- If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.
- Make sure the 4 catches on the trim ring ③ are properly engaged in the slots of the unit.

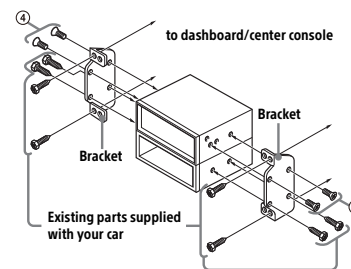
Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

TOYOTA



NISSAN

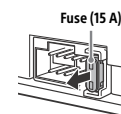


Note

To prevent malfunction, install only with the mounting screws ④.

Fuse replacement

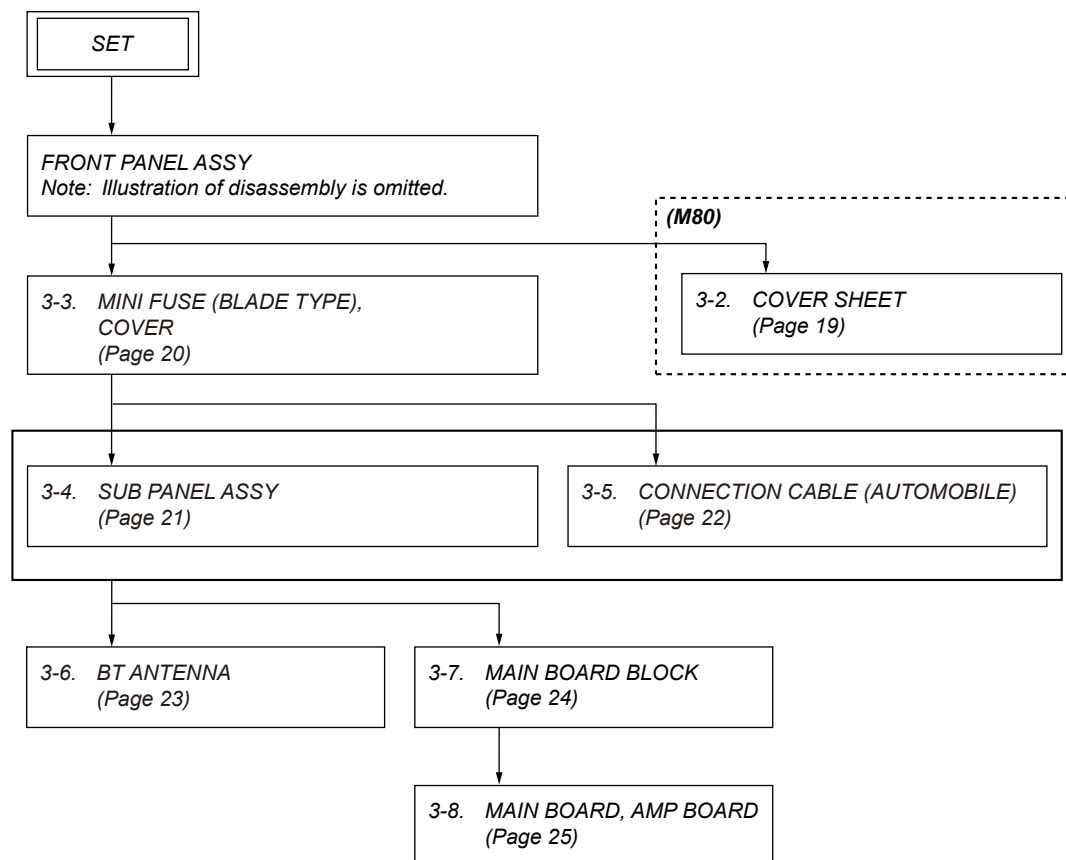
When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

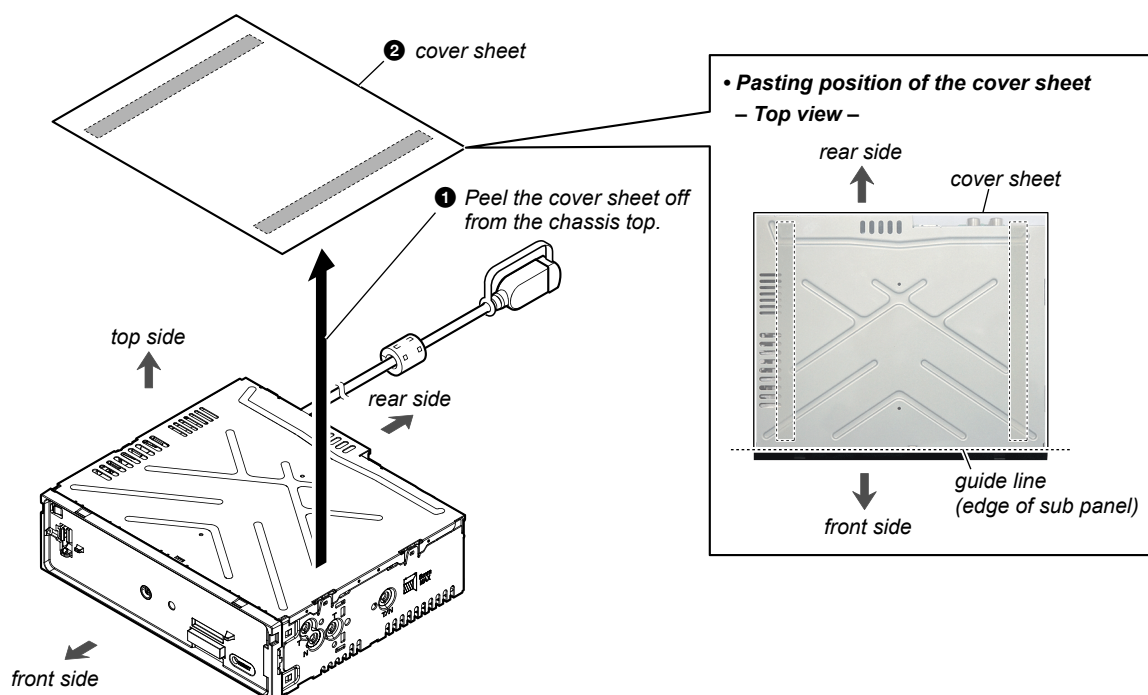
3-1. DISASSEMBLY FLOW



Note: Follow the disassembly procedure in the numerical order given.

3-2. COVER SHEET (DSX-M80)

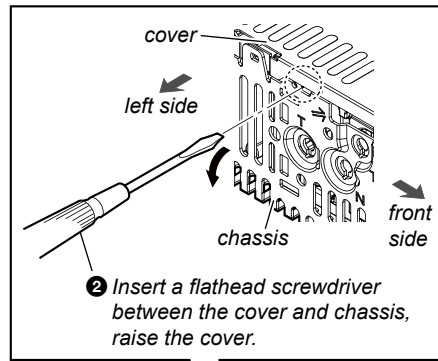
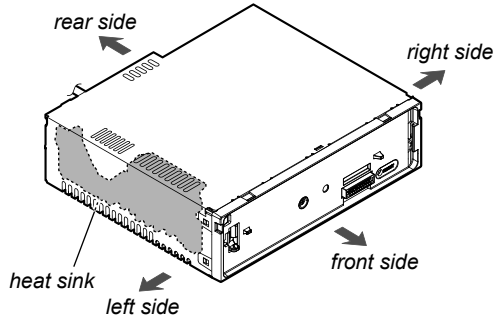
Note: For the DSX-M80, a cover sheet is attached to the cover.
Remove the cover block without peeling off the cover sheet.



3-3. MINI FUSE (BLADE TYPE), COVER

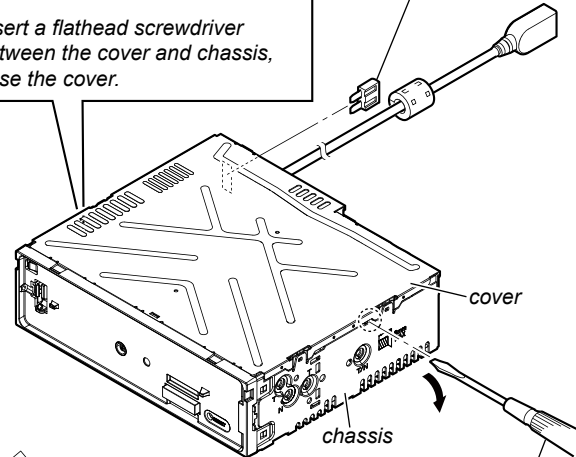
• Note for the heat sink

This unit locates the heat sink on the left side. When touching this unit, be careful not to touch the heat sink on the left side of the unit.



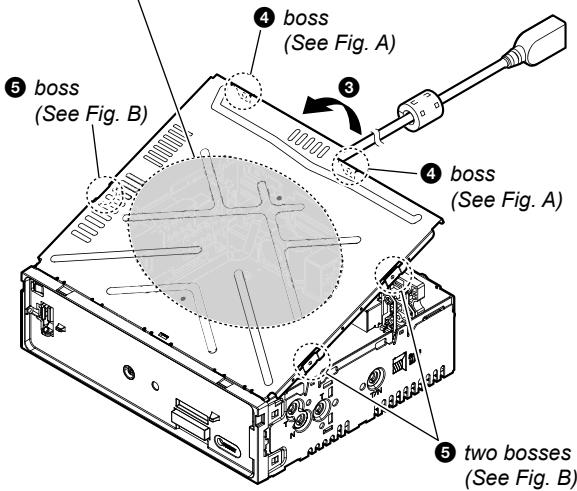
1 mini fuse (blade type)

Note 1: When installing the mini fuse (blade type), insert straight into the interior.

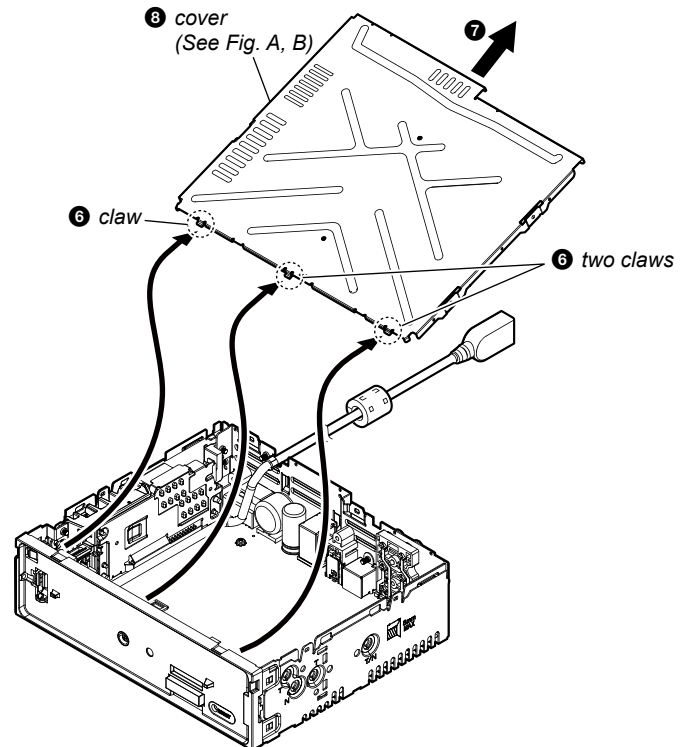


cover

Note 3: When installing the cover, do not press on the center of the cover.



2 Insert a flathead screwdriver between the cover and chassis, raise the cover.



• How to install the cover

Note 2: When installing the cover, check that five bosses are all locked.

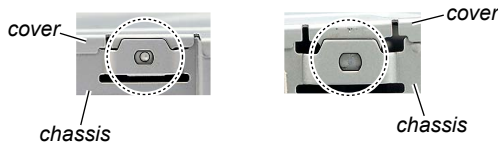
< Fig. A >

OK

Boss is locked.

NG

Boss is unlocked.



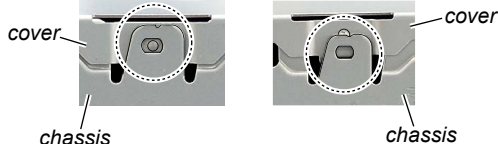
< Fig. B >

OK

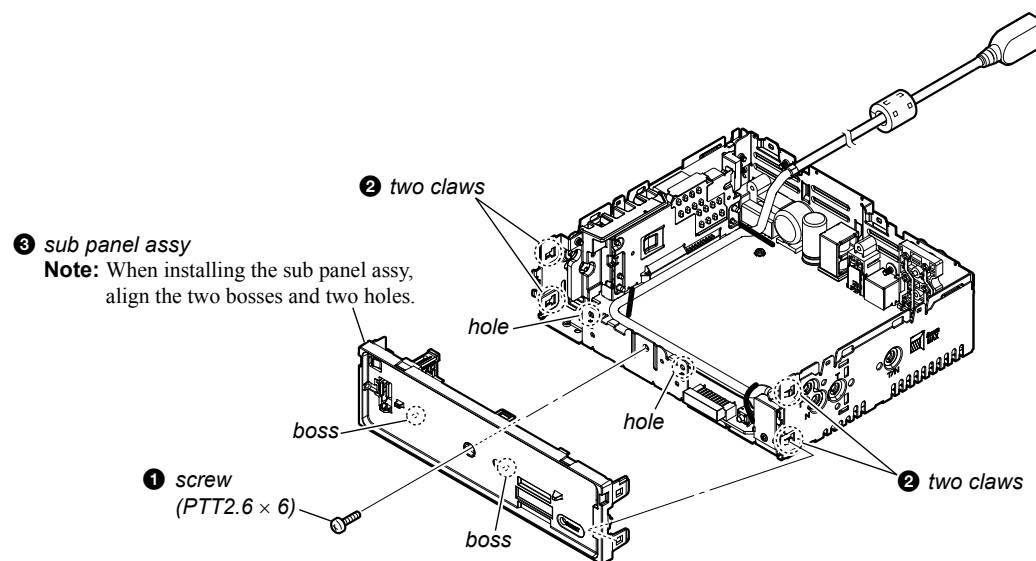
Boss is locked.

NG

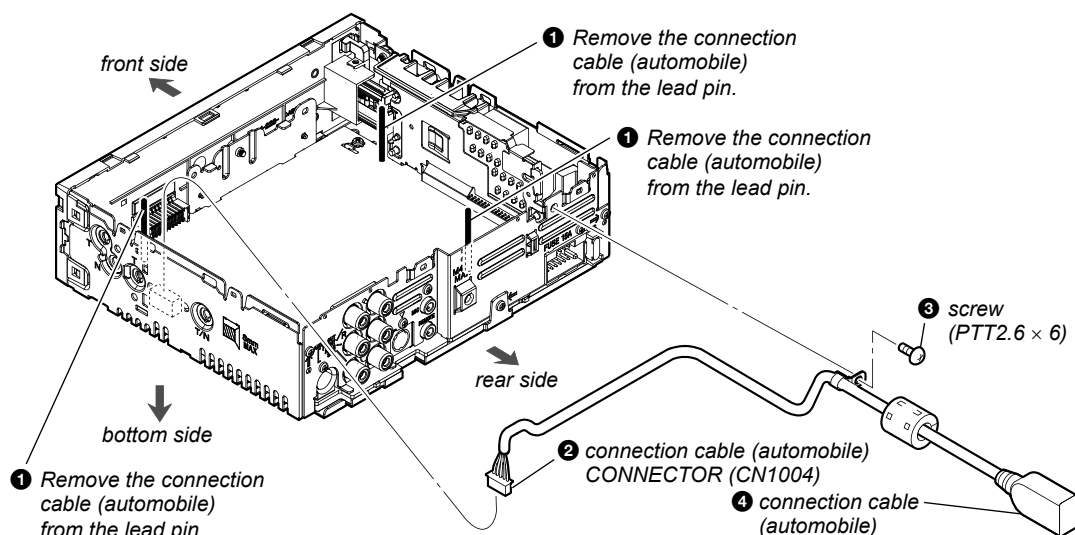
Boss is unlocked.



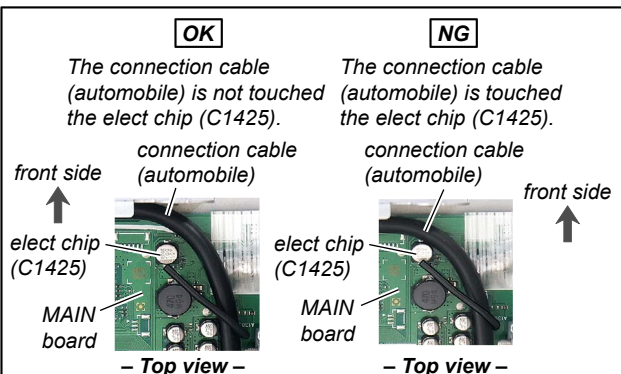
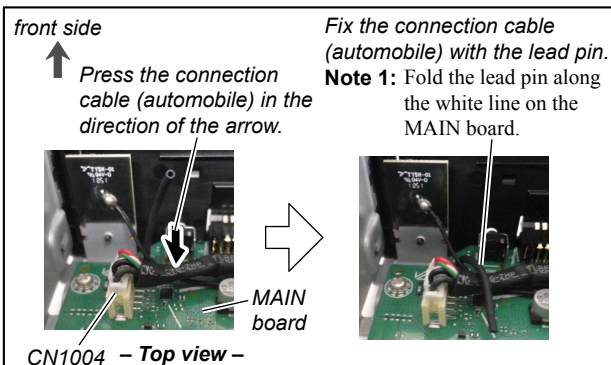
3-4. SUB PANEL ASSY



3-5. CONNECTION CABLE (AUTOMOBILE)

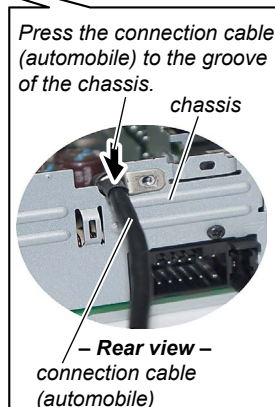
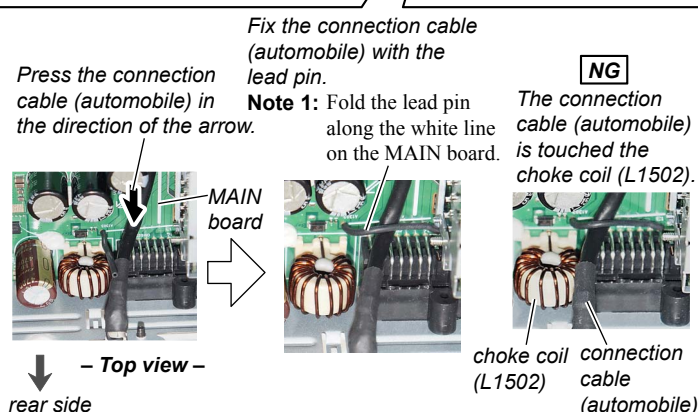
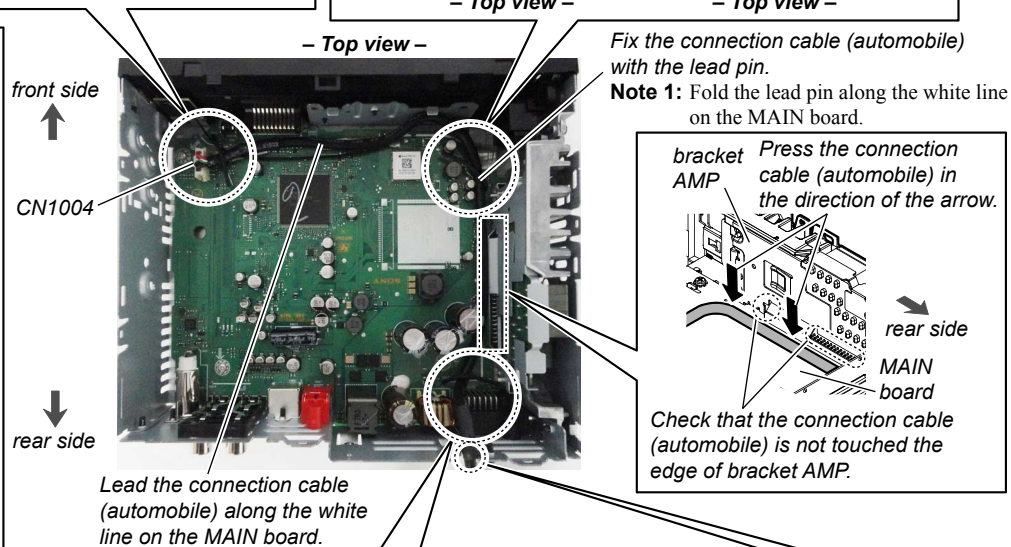
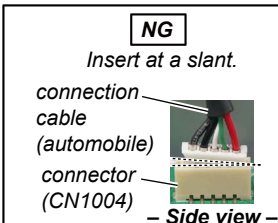
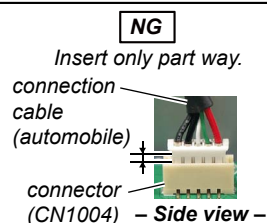
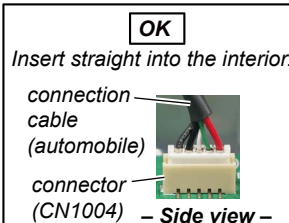


- **Connection cable (automobile) setting**

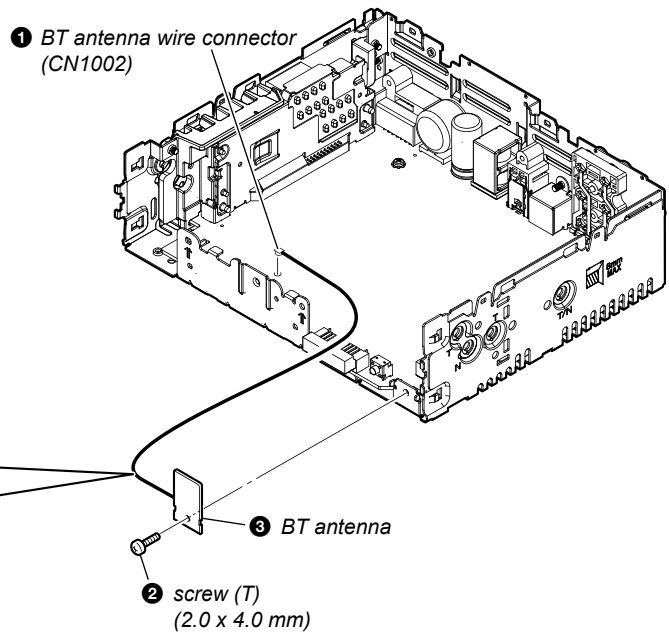
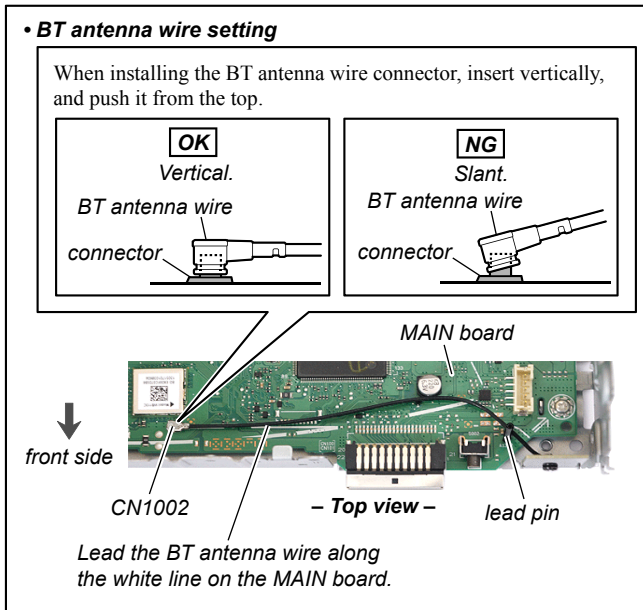


- **How to install the connector (CN1004)**

Note 2: When installing the connector (CN1004) on the MAIN board, insert straight to the connector. No slanting after insertion.



3-6. BT ANTENNA

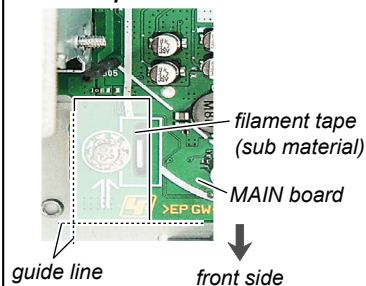


3-7. MAIN BOARD BLOCK

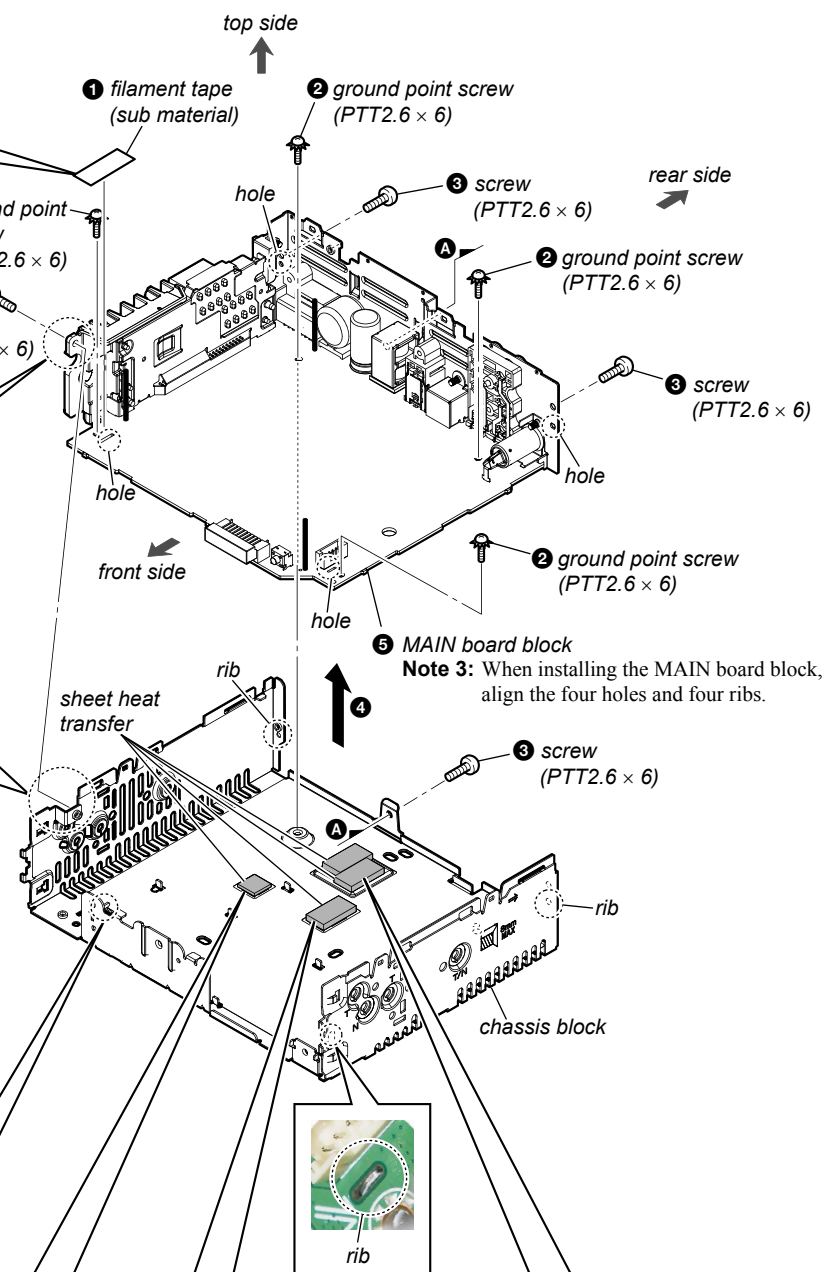
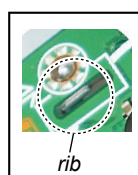
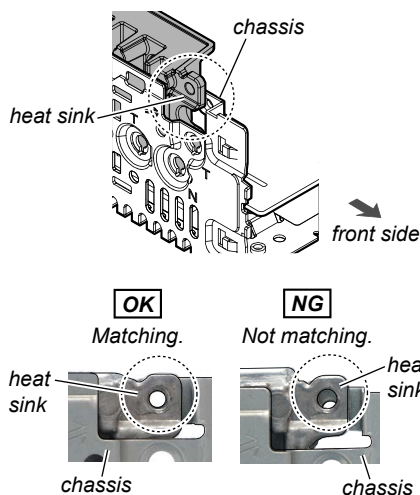
• **Pasting position of the filament tape (sub material)**

Note 1: Paste the filament tape (sub material) to affix the leg of chassis and screw.

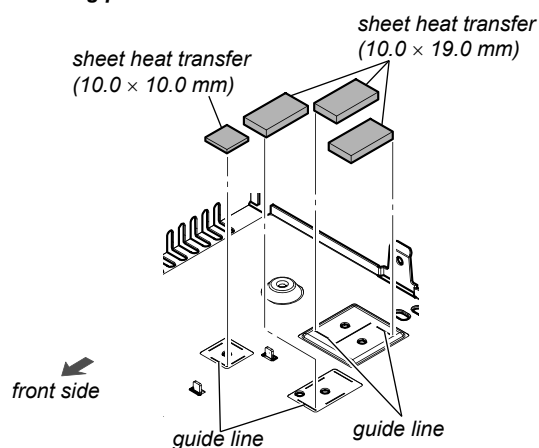
– Top view –



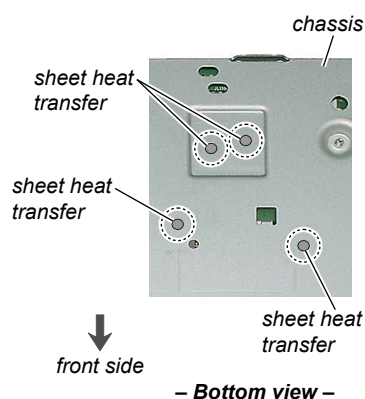
Note 2: When installing the MAIN board block to the chassis block, insert the heat sink between the chassis notch and align the screw holes.



• **Pasting position of the sheet heat transfer**



Note 4: Check that the sheet heat transfer blocks the four holes on the chassis.

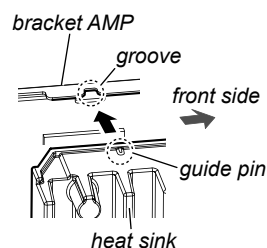


3-8. MAIN BOARD, AMP BOARD

Note 1: When replacing the MAIN board, make sure to refer to "NOTE OF REPLACING THE MAIN BOARD" on page 5.

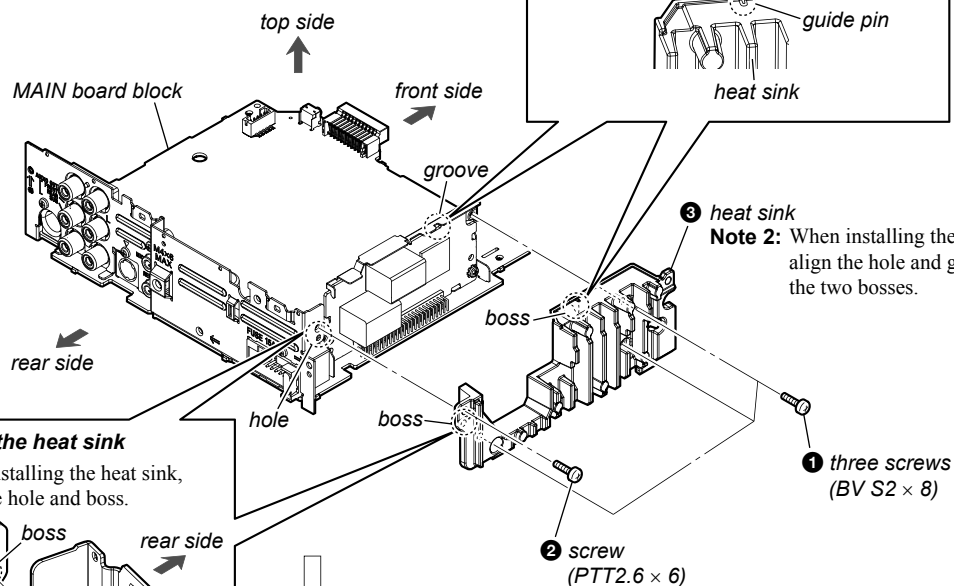
• **How to install the heat sink**

Note 3: When installing the heat sink, align the groove and guide pin (boss).



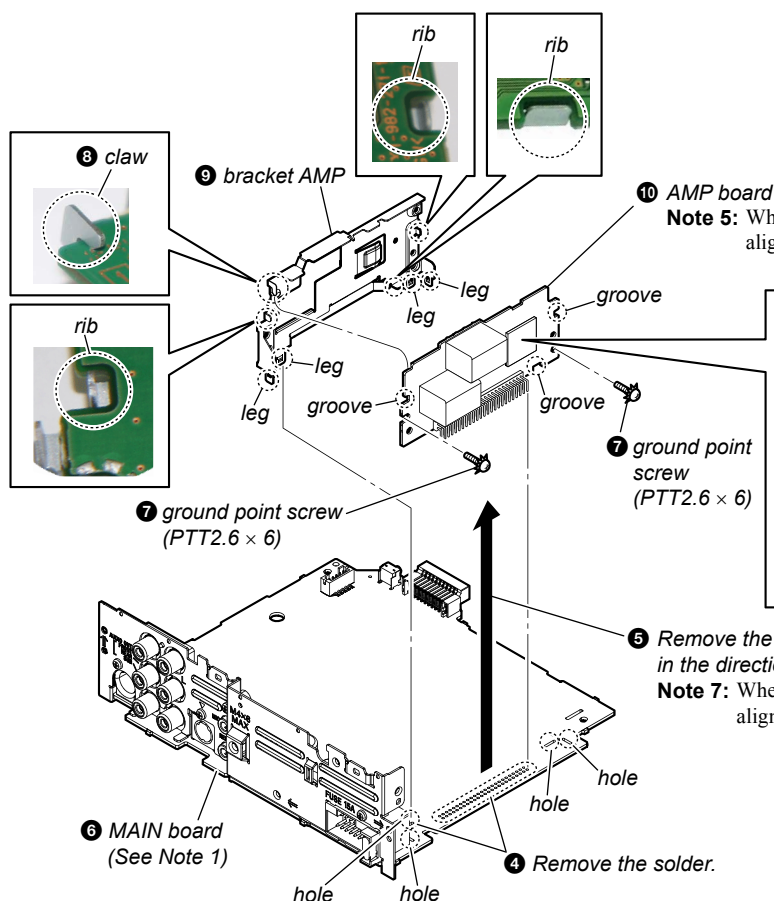
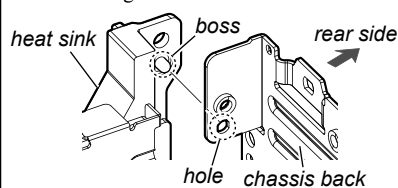
③ heat sink

Note 2: When installing the heat sink, align the hole and groove with the two bosses.



• **How to install the heat sink**

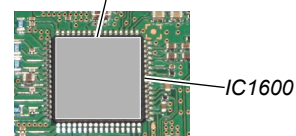
Note 4: When installing the heat sink, align the hole and boss.



• **Application position of compound**

Note 6: When replacing the AMP board, it is necessary to spread the compound. Spread the compound over the IC1600 referring to the figure below.

COMPOUND (CASMOPLY HC-300)



SECTION 4 TEST MODE

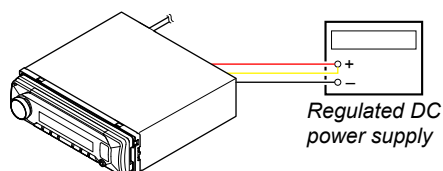
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For Authorized Servicer

SETTING THE TEST MODE

Note 1: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

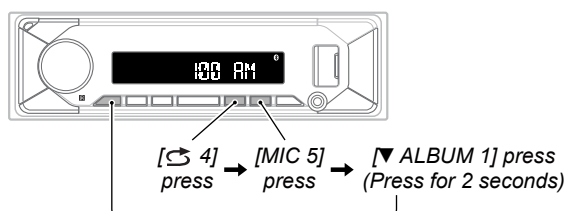
Setting method:

1. Connect the power cord to the regulated DC power supply, and turn the power on of this unit.



2. Press and hold the [OFF SRC] button to the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [4] → [MIC 5] → [ALBUM 1] (press only the [ALBUM 1] button for 2 seconds).

Note 2: There is not displayed "AM", depending on the destination.



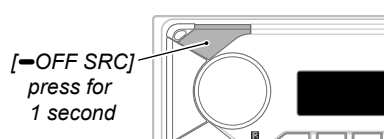
3. It is set to the test mode, and all segments of the liquid crystal display light.

Screen display



Releasing method:

Press the [OFF SRC] button for 1 second.



MICROPHONE AUDIO LOOPBACK

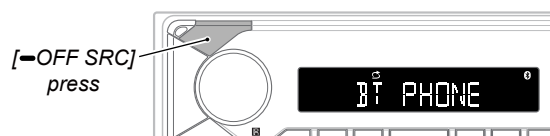
To confirm the state of the external microphone used when a hands-free function is used, the microphone audio is output from the speaker.

The breakdown judgment of the microphone can be done without connecting H/F with the smartphone or cellular phone.

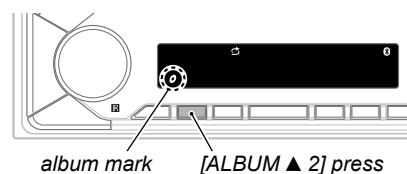
Note: The liquid crystal display is an example of DSX-GS80. The liquid crystal display of DSX-M80 will be black characters on a white background.

Procedure:

1. Connect a speaker and external microphone to this unit.
2. Enter the test mode.
(Refer to "SETTING THE TEST MODE" on the left)
3. Press the [OFF SRC] button to select the "BT PHONE" function.



4. On/off of the microphone audio loopback function changes whenever the [ALBUM 2] button is pressed ("O" (album mark) is displayed on the liquid crystal display).

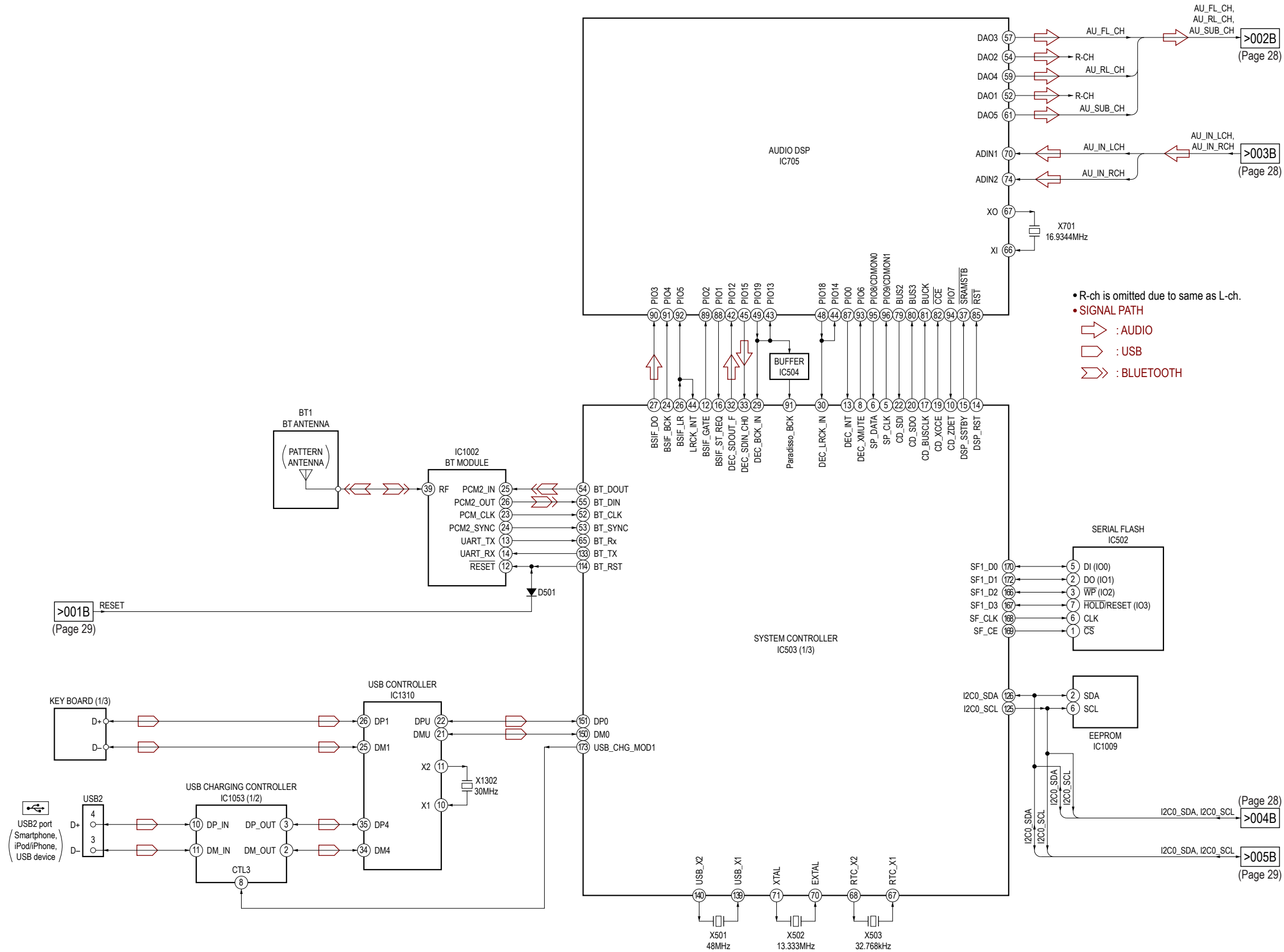


Microphone audio loopback	O (album mark)
ON	Lit
OFF	None

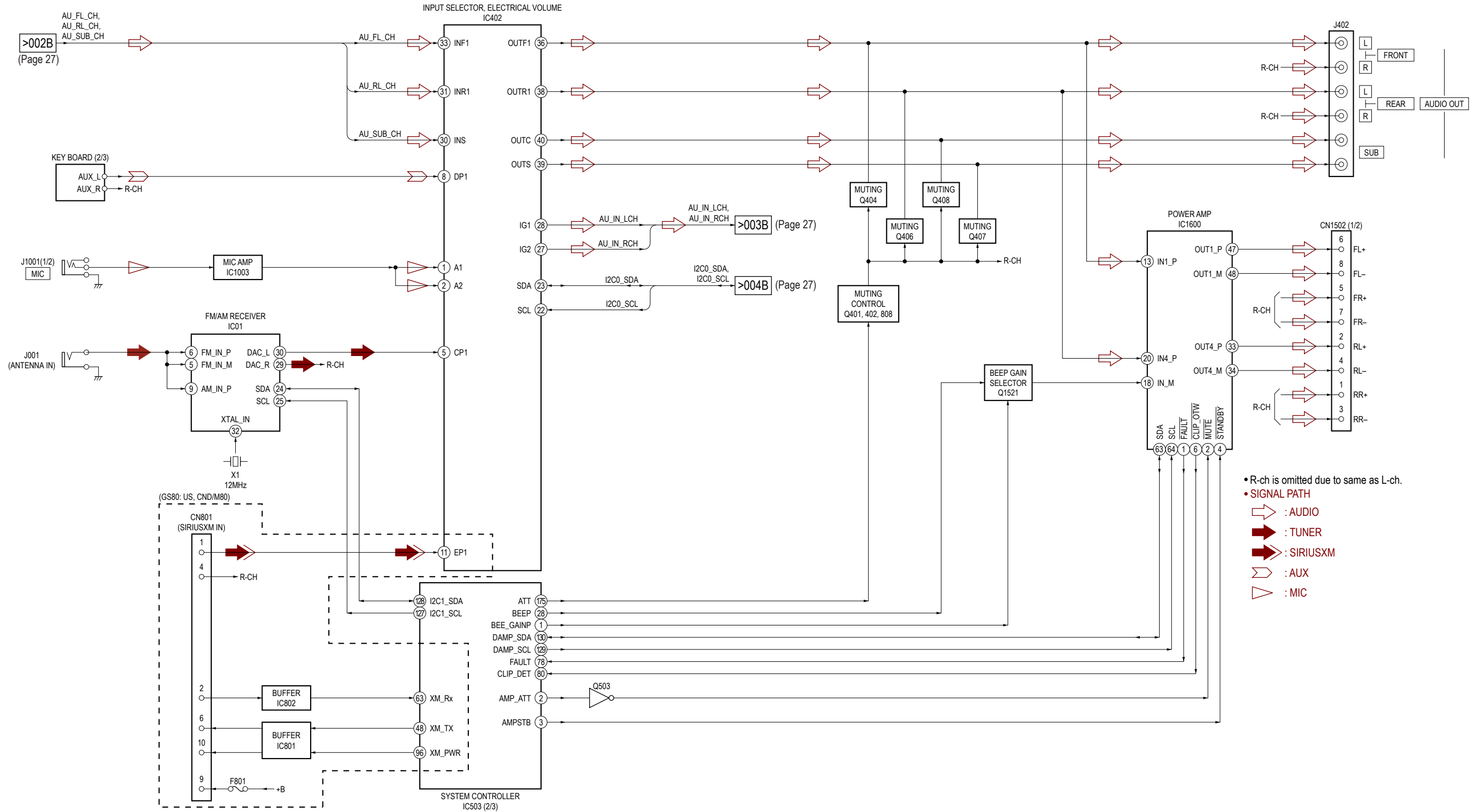
5. Input voice to the external microphone with the microphone audio loopback function "ON", and check that voice is output from the speaker.

SECTION 5 DIAGRAMS

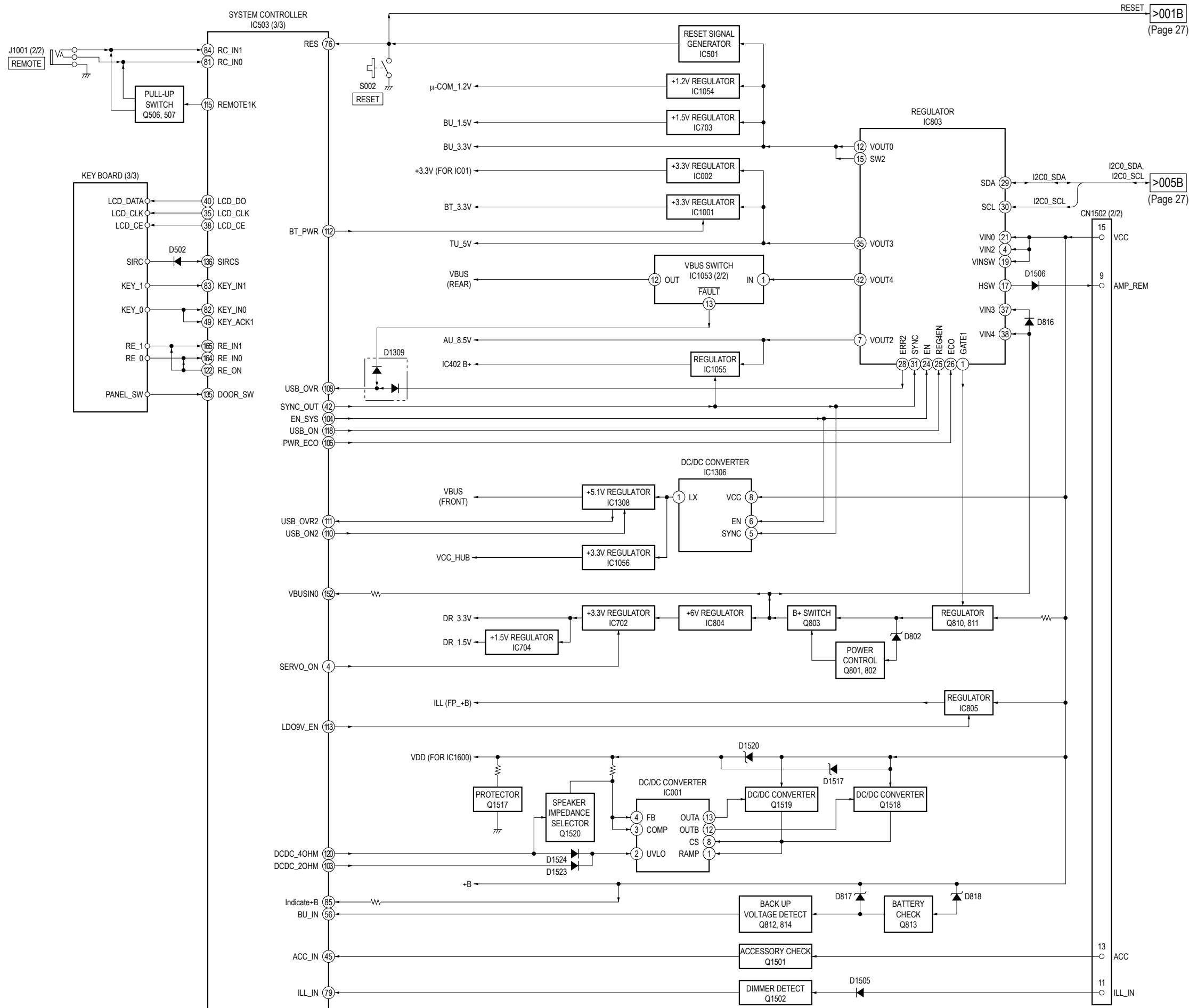
5-1. BLOCK DIAGRAM - AUDIO DSP Section -



5-2. BLOCK DIAGRAM - AMP Section -



5-3. BLOCK DIAGRAM - PANEL/POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

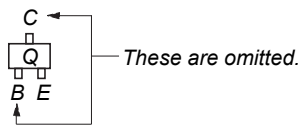
Note:

- — : Parts extracted from the component side.
- : Parts extracted from the conductor side.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:

Pattern face side: Parts on the pattern face side seen
(Conductor Side) from the pattern face are indicated.
Parts face side: Parts on the parts face side seen from
(Component Side) the parts face are indicated.

- AMP board is multi-layer printed board. However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor.



Note 1: When the complete MAIN board is replaced, be sure to refer to "NOTE OF REPLACING THE MAIN BOARD" on page 5.

Note 2: Among the parts listed in the electrical parts list (page 55 to 65), parts described as "Not supplied" can not be replaced for repairing individually.
If a part that can not be replaced for repair is defective, replace the complete mounted board or the whole parts including the applicable board with a new part.

Note 3: Individual electrical parts that mounted on the KEY board can not be replaced.
When the KEY board is defective, replace the front panel assy (Exploded Views: Ref. No. FP1) including the KEY board with new parts.
Also, block diagram, schematic diagram and printed wiring board of the KEY board have not described in this service manual.

For Schematic Diagrams.

Note:

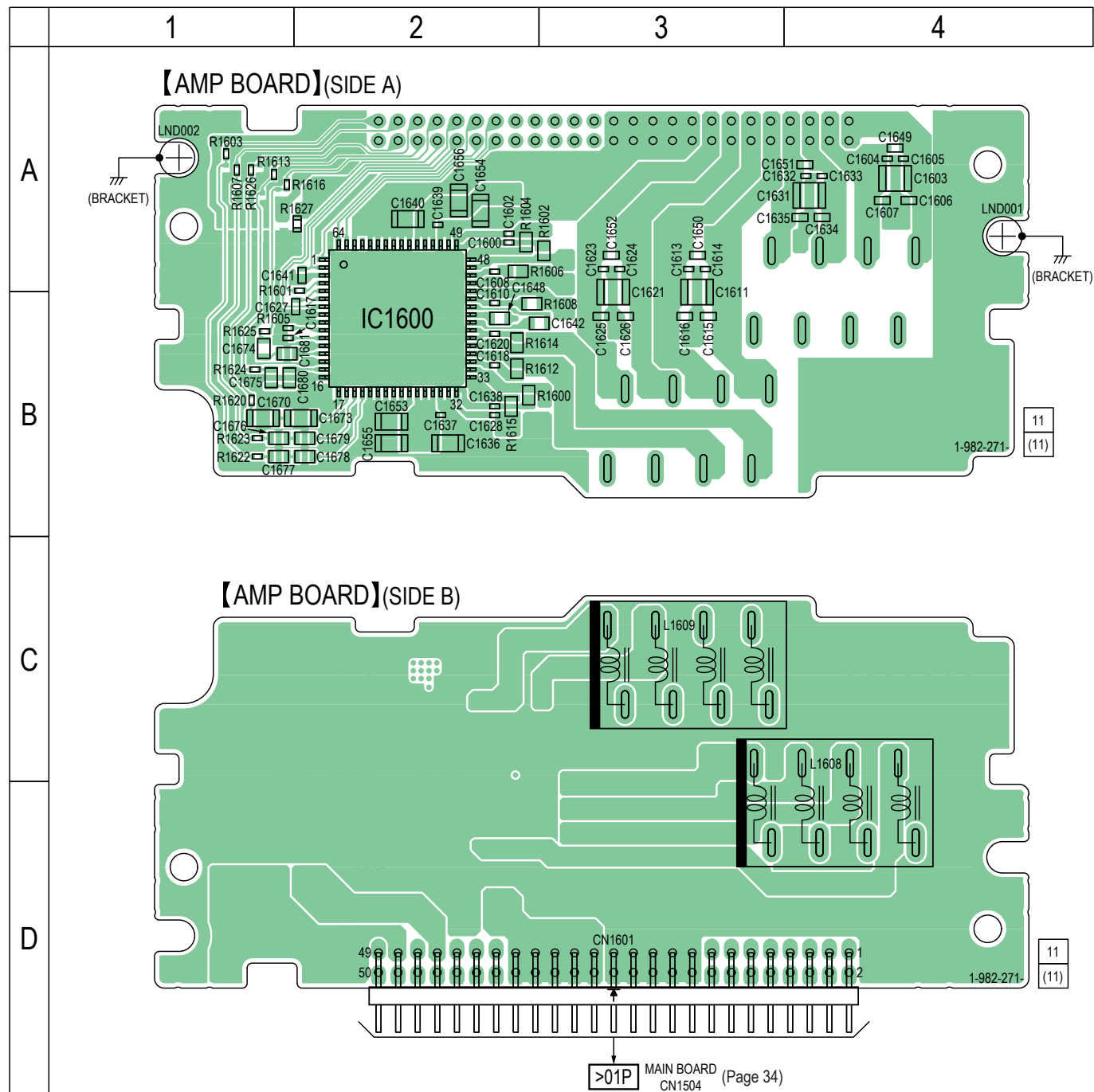
- All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : Panel designation.
- : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: TUNER (FM)
[] : TUNER (AM/LW)
* : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⇒ : AUDIO
⇒ : TUNER
⇒ : SIRIUSXM
⇒ : USB
⇒ : AUX
⇒ : BLUETOOTH
⇒ : MIC

Note 1: When the complete MAIN board is replaced, be sure to refer to "NOTE OF REPLACING THE MAIN BOARD" on page 5.

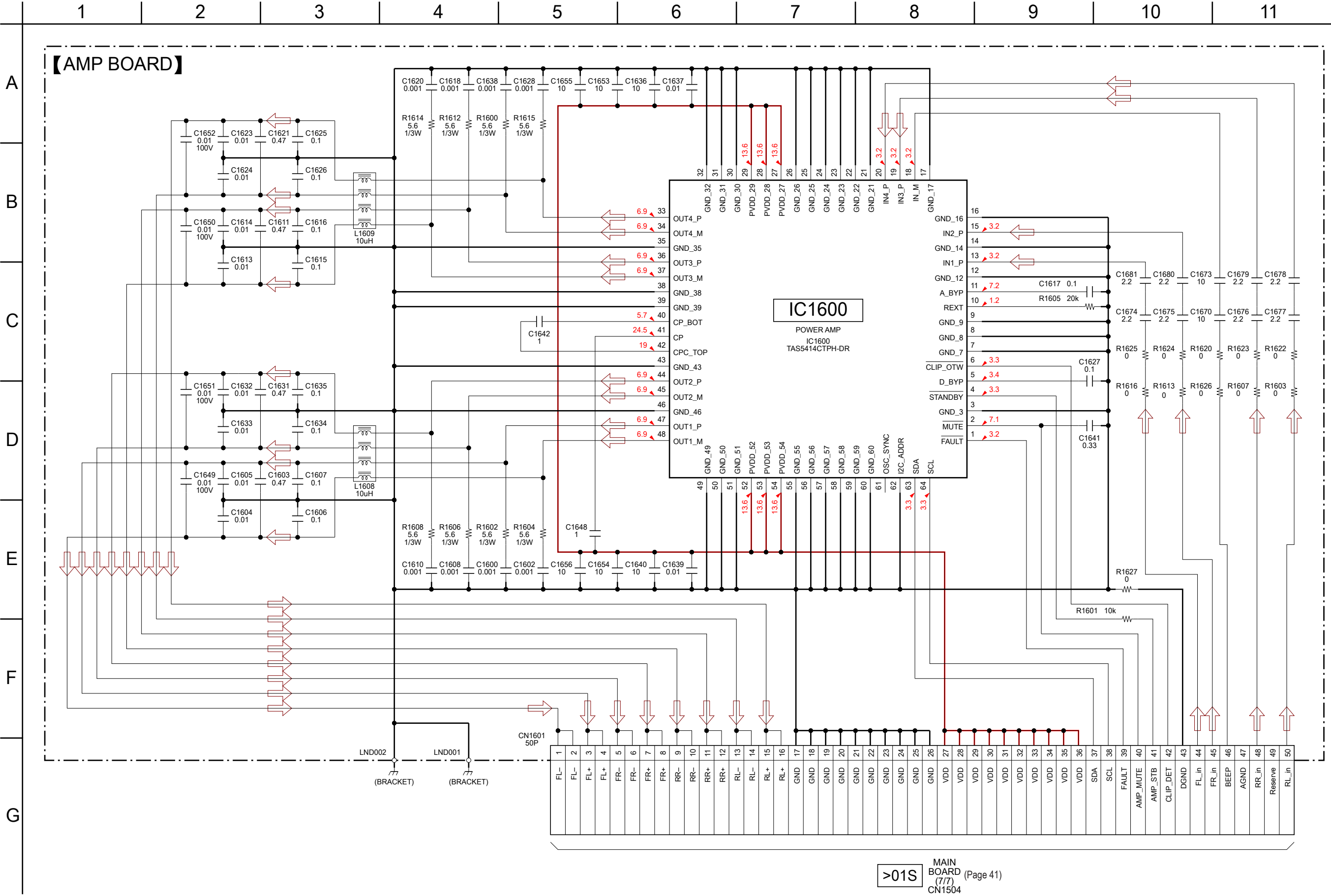
Note 2: Among the parts listed in the electrical parts list (page 55 to 65), parts described as "Not supplied" can not be replaced for repairing individually.
If a part that can not be replaced for repair is defective, replace the complete mounted board or the whole parts including the applicable board with a new part.

Note 3: Individual electrical parts that mounted on the KEY board can not be replaced.
When the KEY board is defective, replace the front panel assy (Exploded Views: Ref. No. FP1) including the KEY board with new parts.
Also, block diagram, schematic diagram and printed wiring board of the KEY board have not described in this service manual.

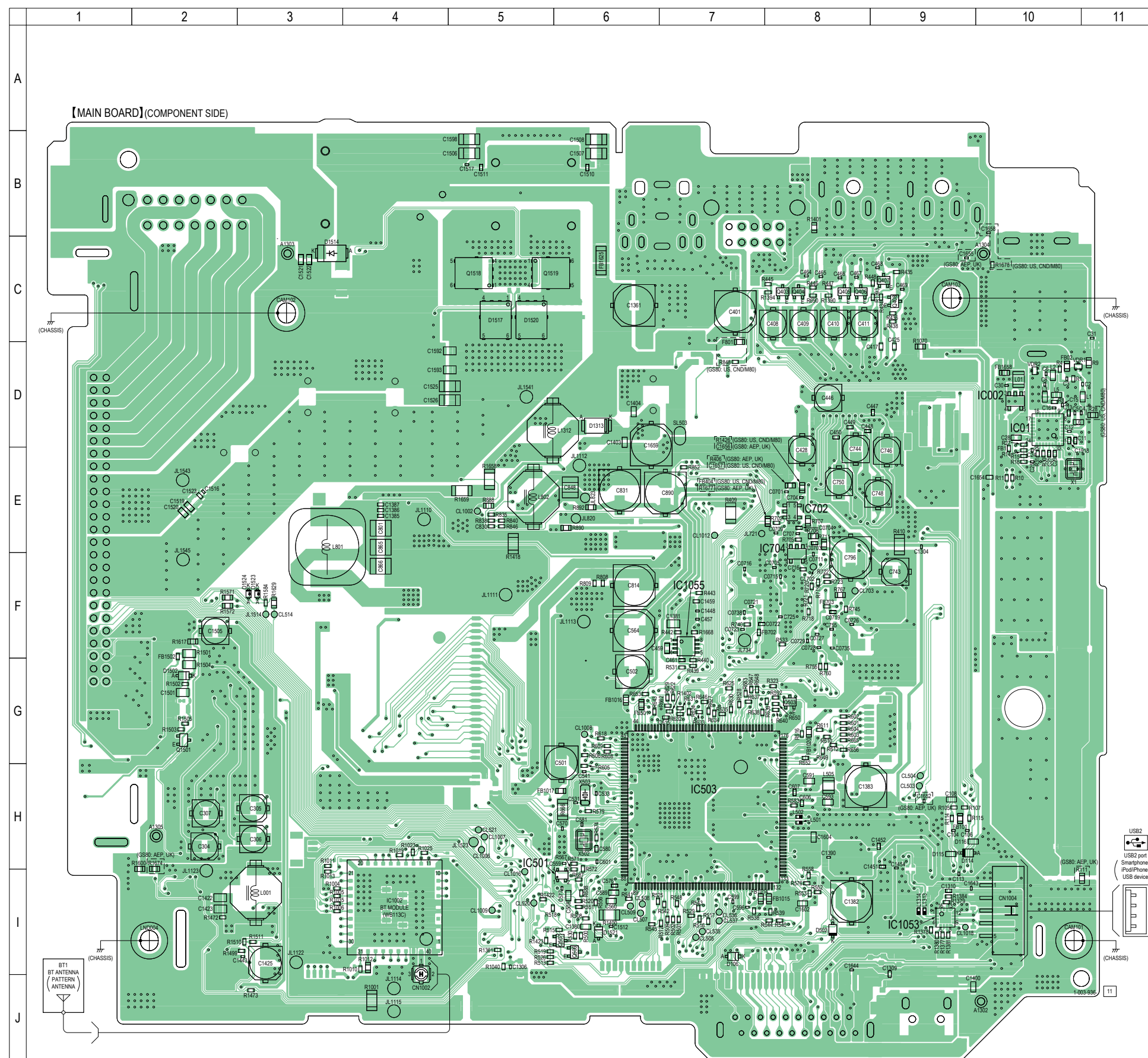
5-4. PRINTED WIRING BOARD - AMP Board - : Uses unleaded solder.



5-5. SCHEMATIC DIAGRAM - AMP Board - • See page 43 for IC Block Diagrams.



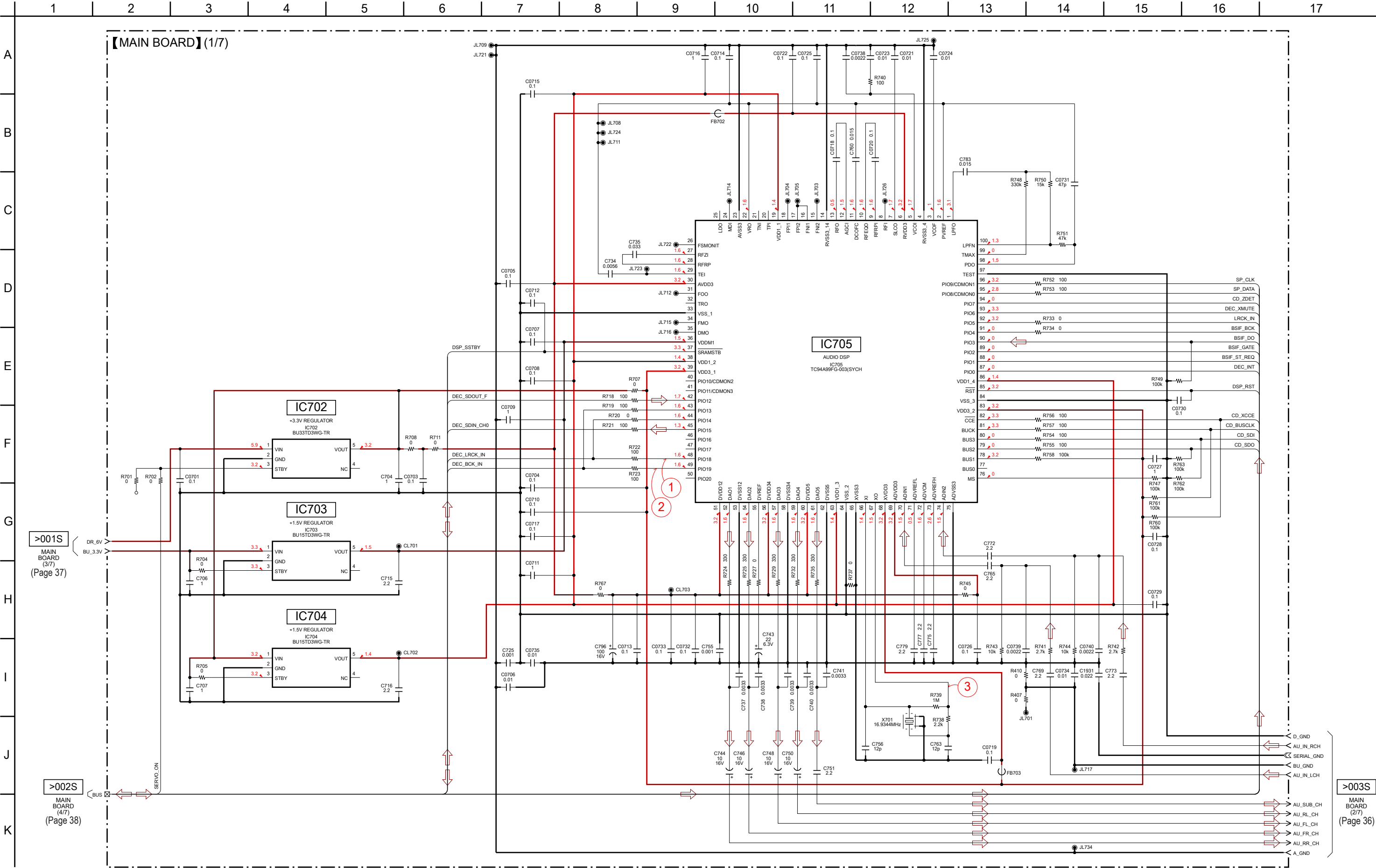
5-6. PRINTED WIRING BOARD - MAIN Board (Component Side) - • : Uses unleaded solder.



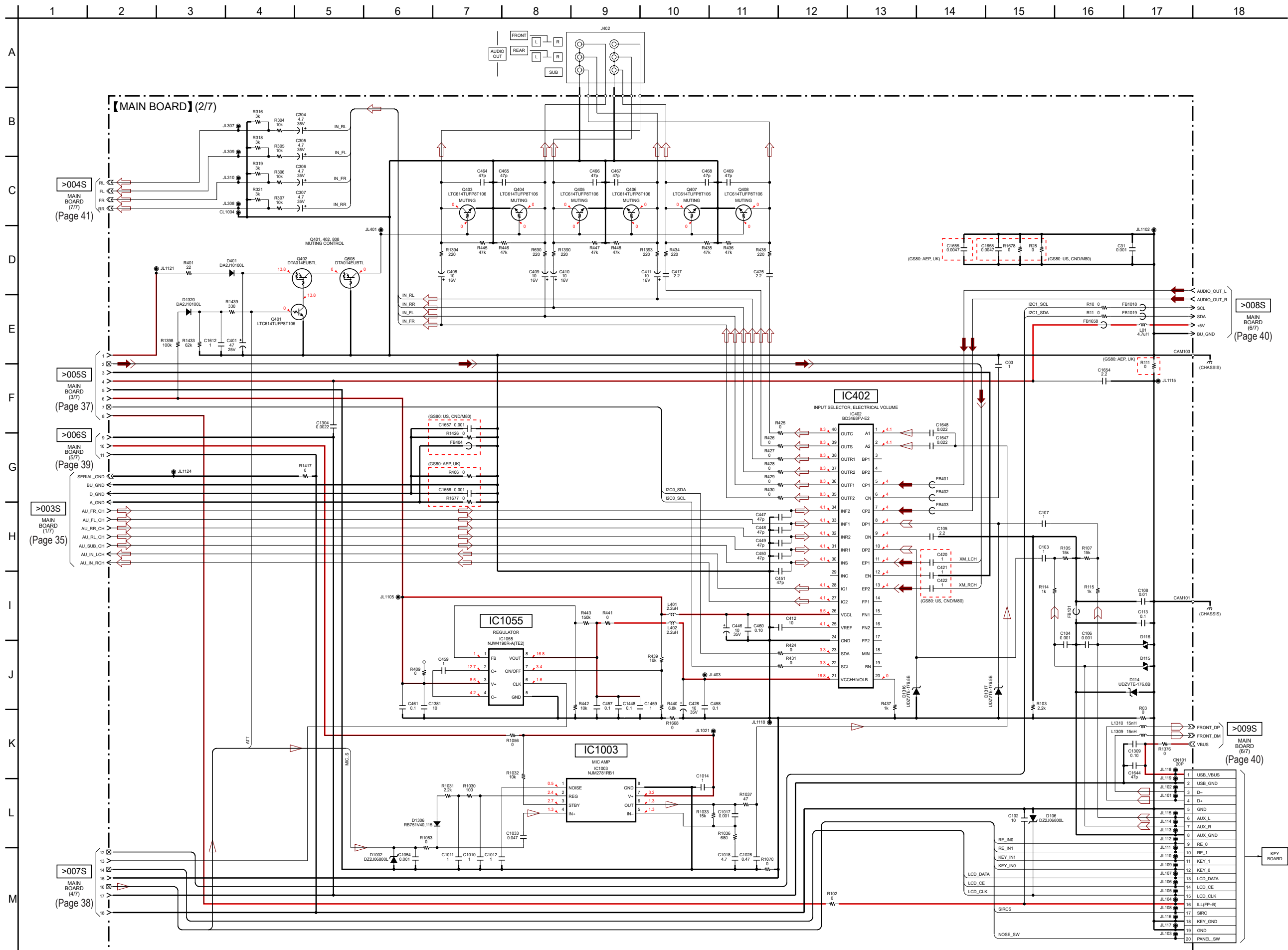
34



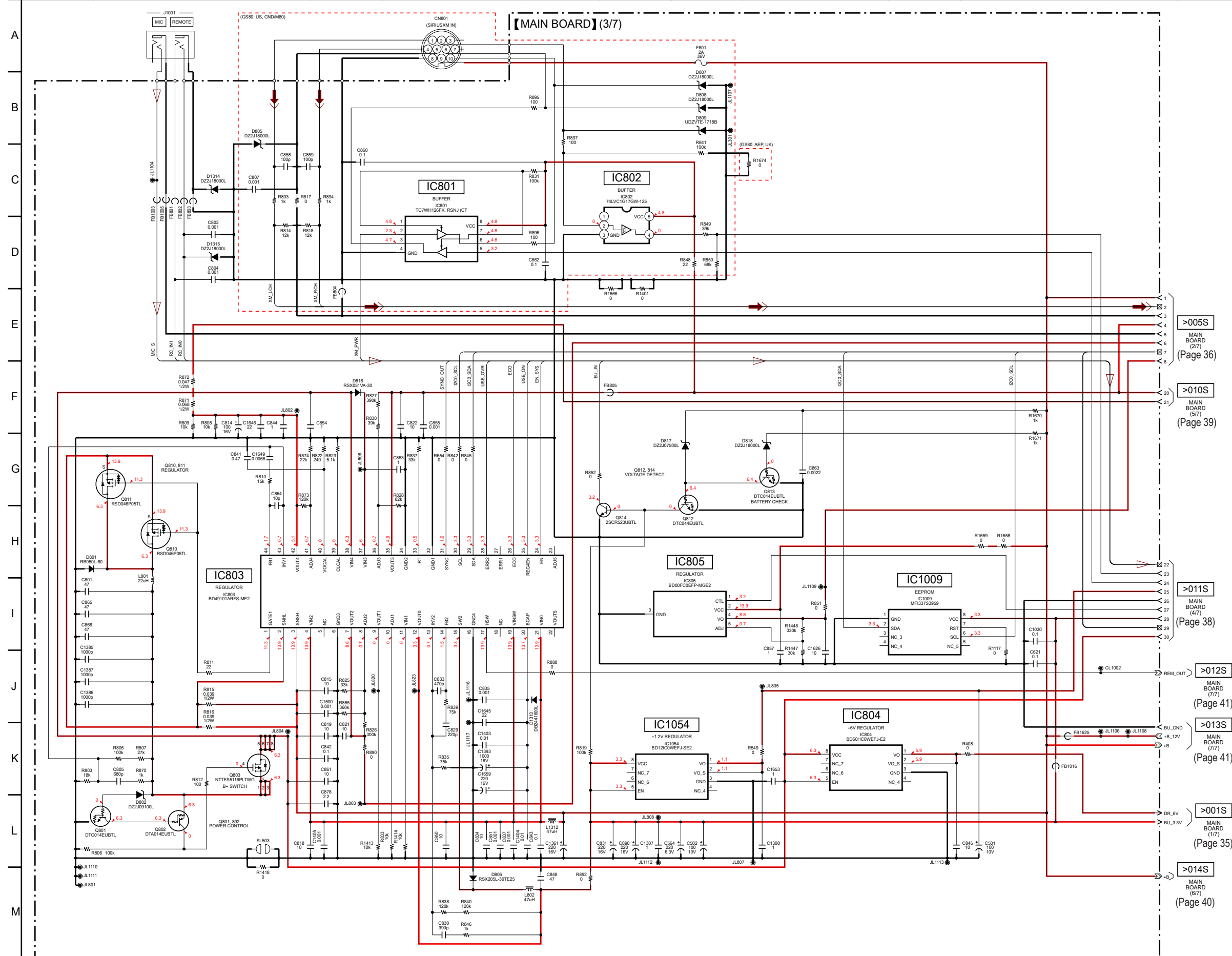
5-8. SCHEMATIC DIAGRAM - MAIN Board (1/7) - • See page 42 for Waveforms. • See page 43 for IC Block Diagrams. • See page 47 for IC Pin Function Description.



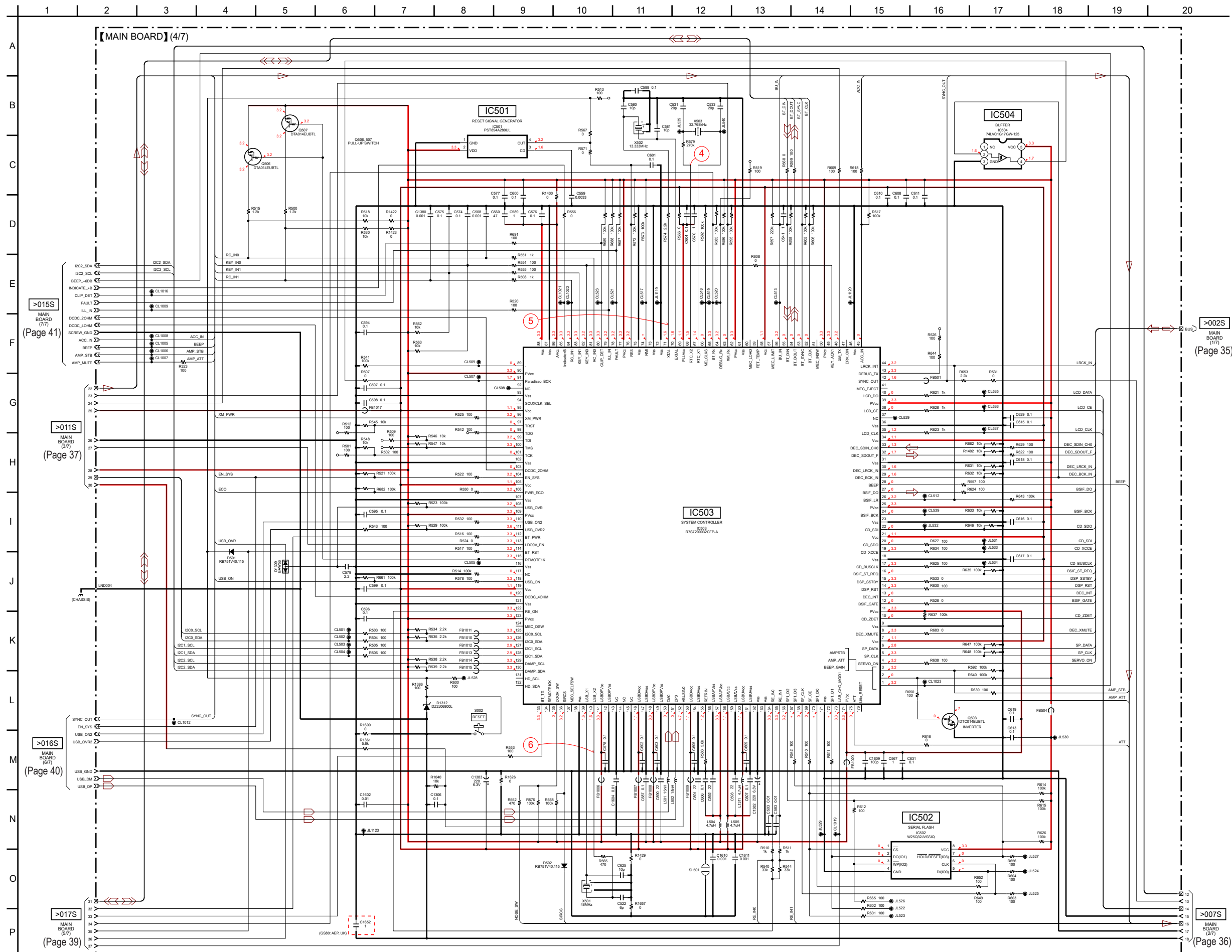
5-9. SCHEMATIC DIAGRAM - MAIN Board (2/7) - • See page 43 for IC Block Diagrams.



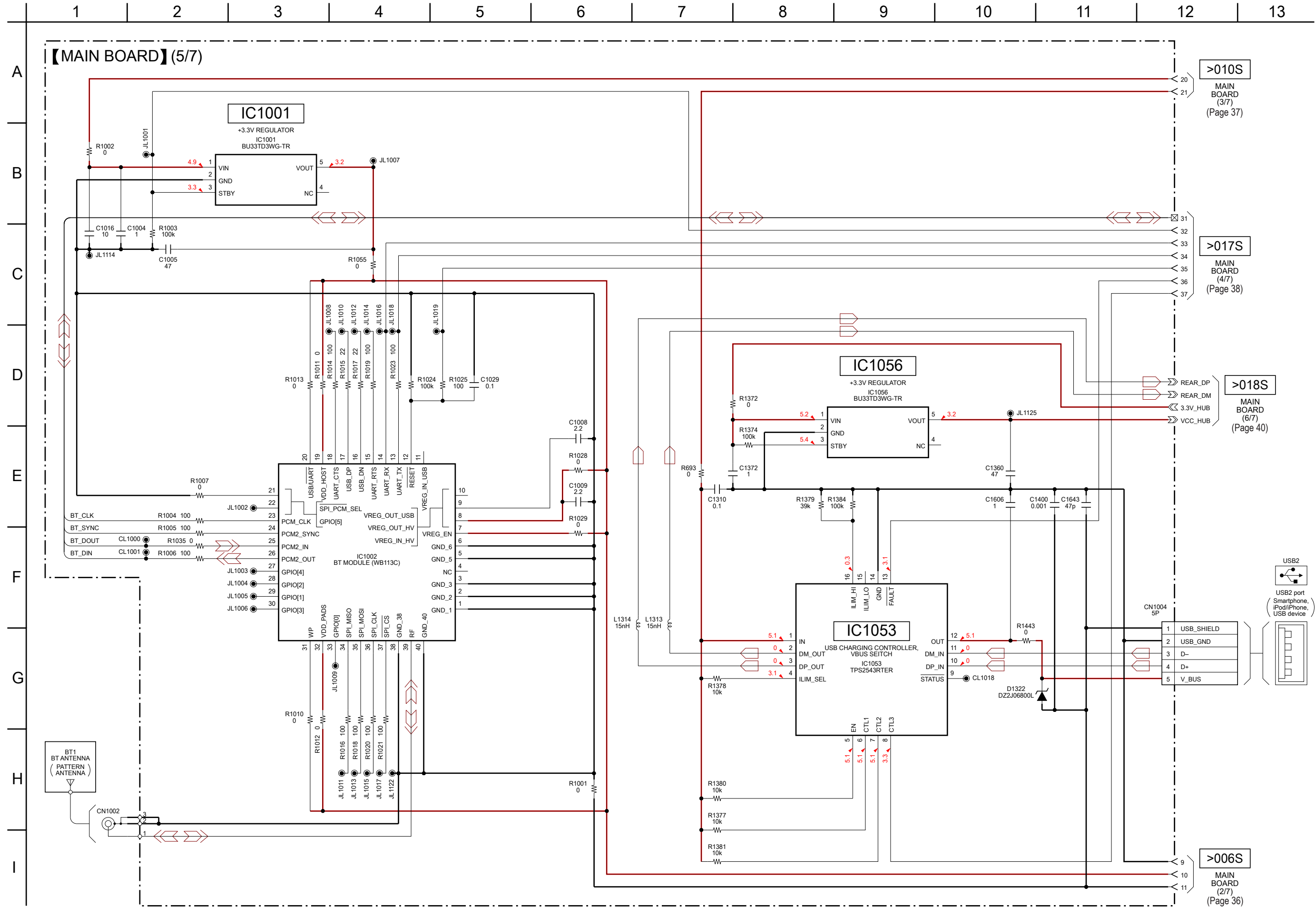
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----



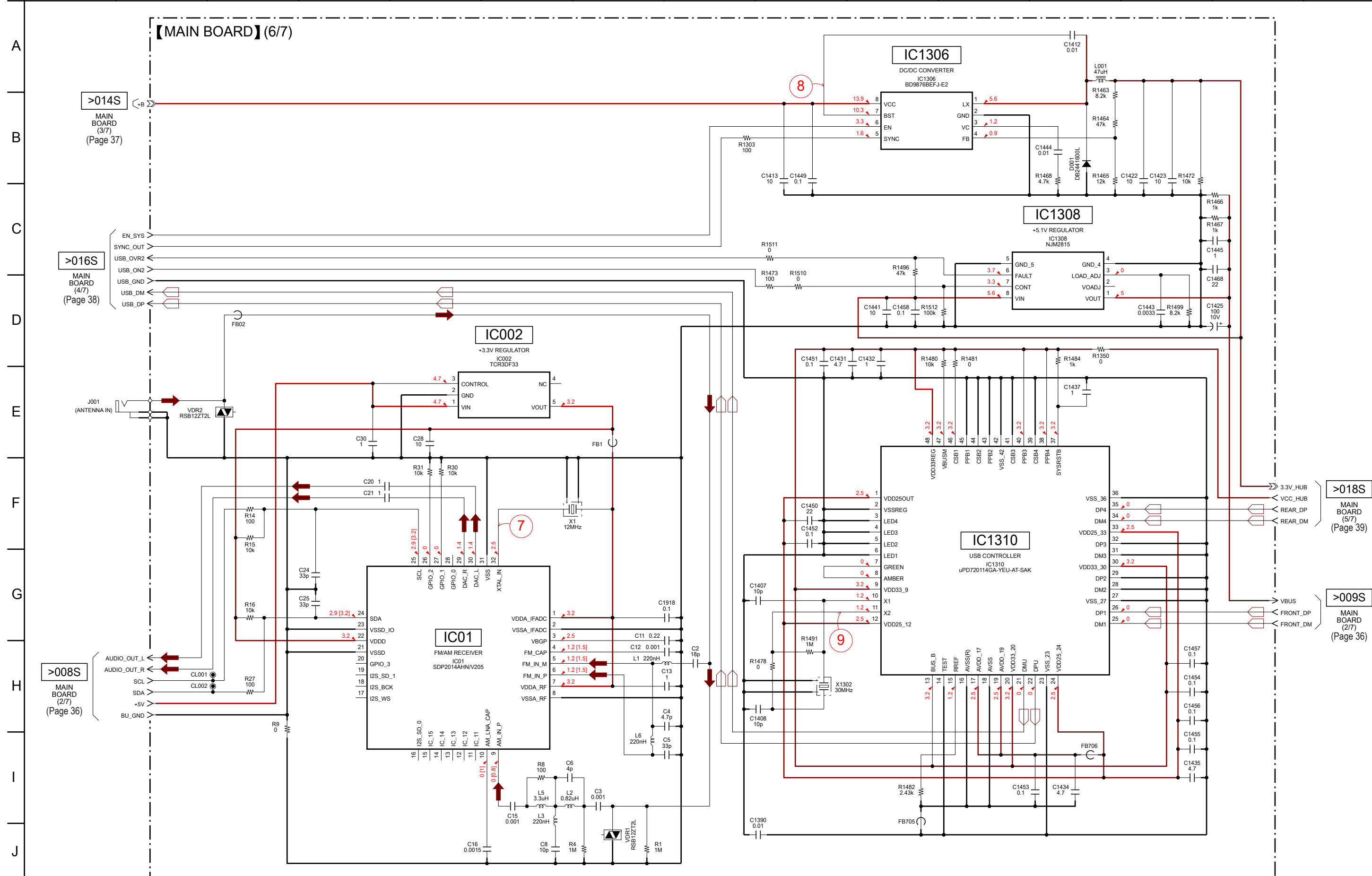
5-11. SCHEMATIC DIAGRAM - MAIN Board (4/7) - • See page 42 for Waveforms. • See page 43 for IC Block Diagrams. • See page 47 for IC Pin Function Description.



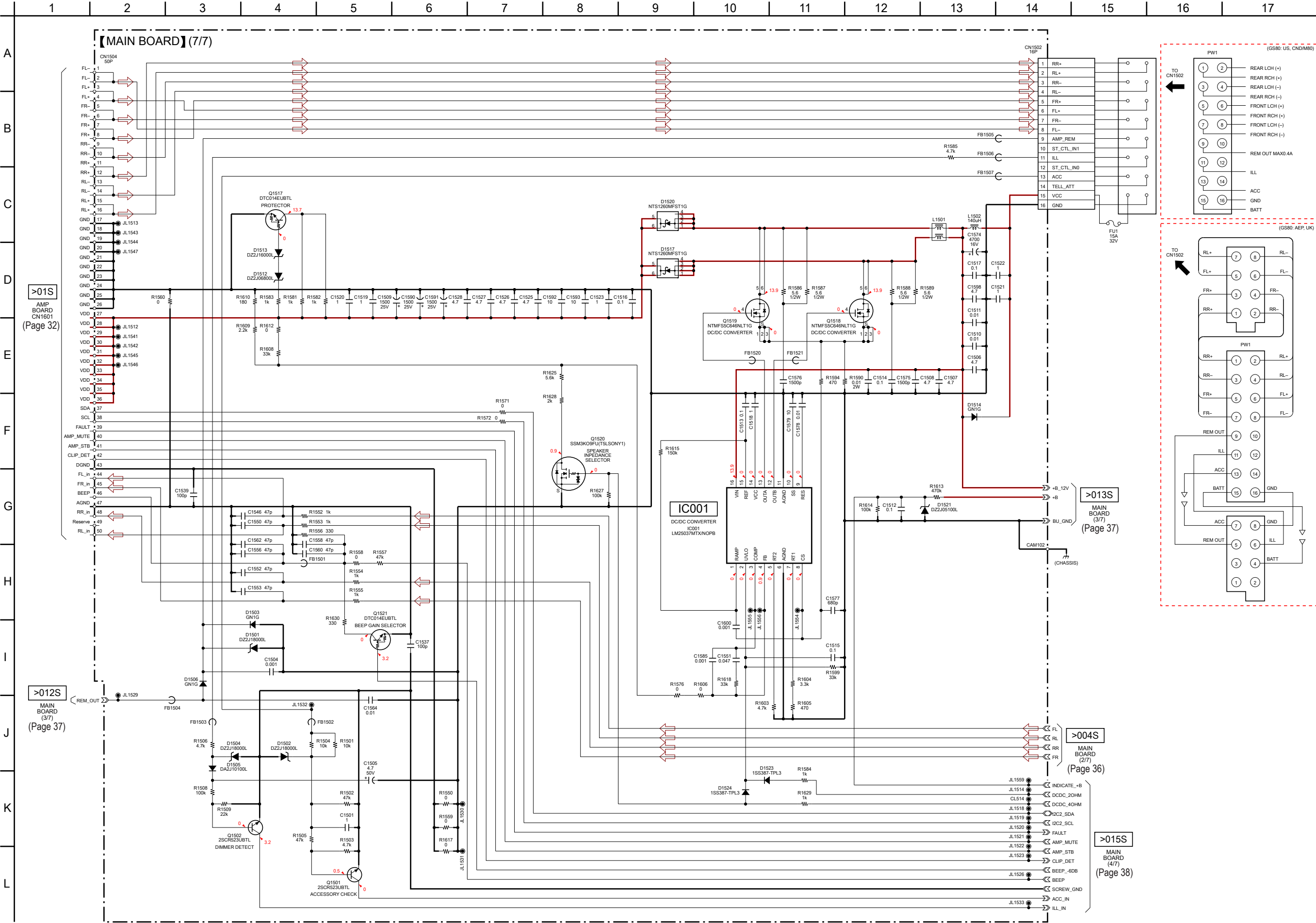
5-12. SCHEMATIC DIAGRAM - MAIN Board (5/7) - • See page 43 for IC Block Diagrams.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

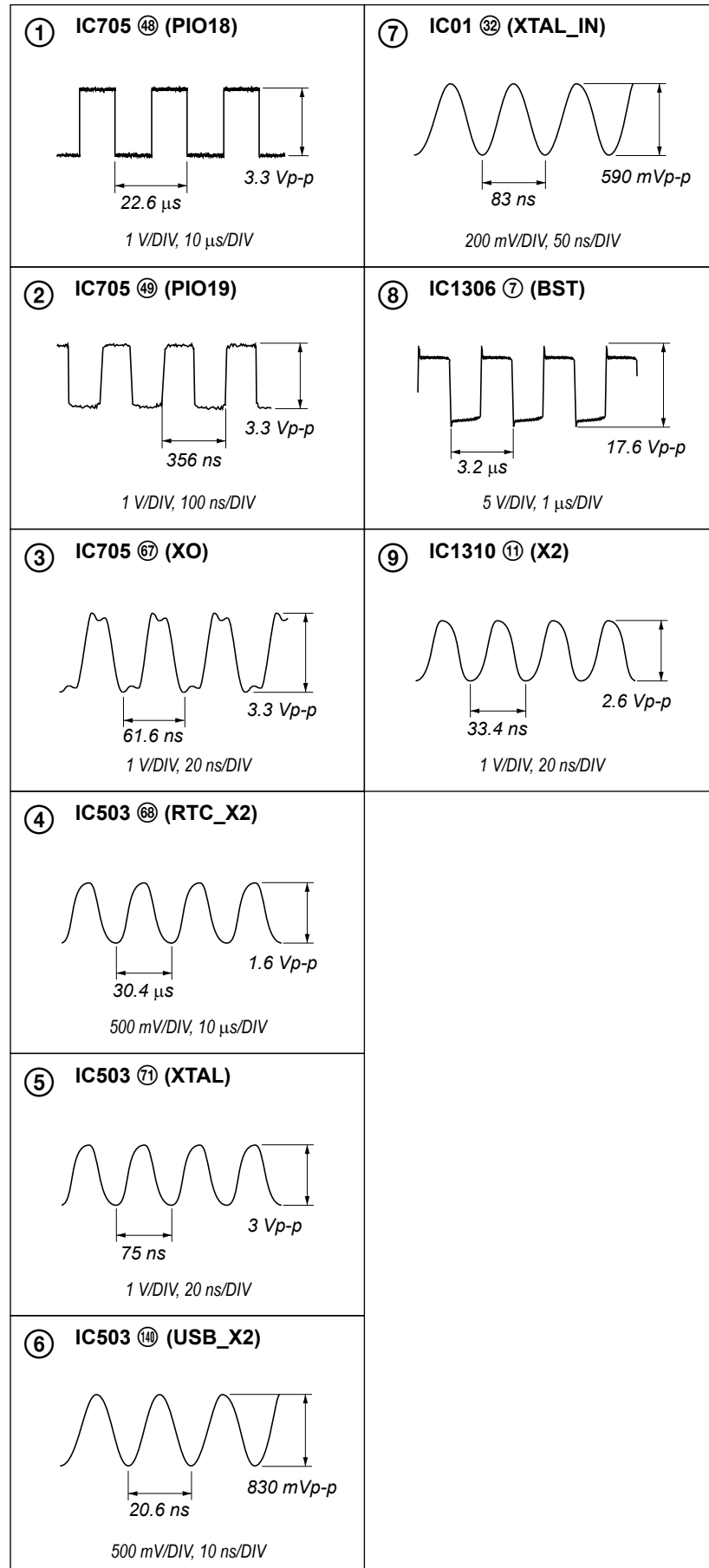


5-14. SCHEMATIC DIAGRAM - MAIN Board (7/7) - • See page 43 for IC Block Diagrams.



• Waveforms

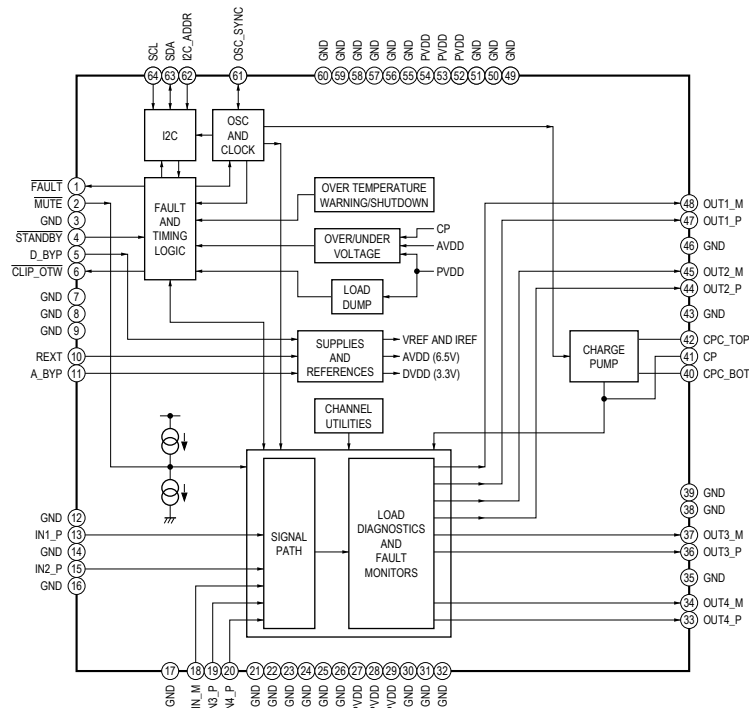
– MAIN Board –



• IC Block Diagrams

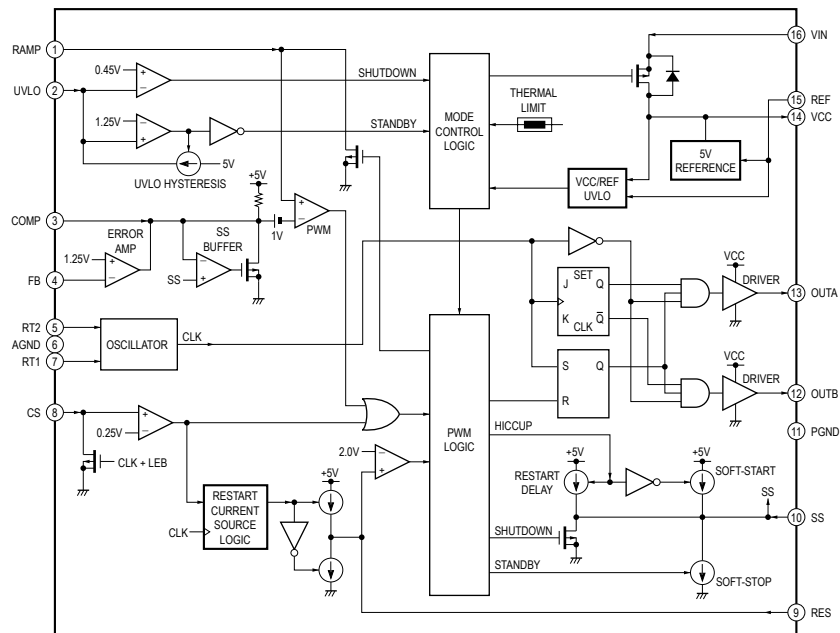
– AMP Board –

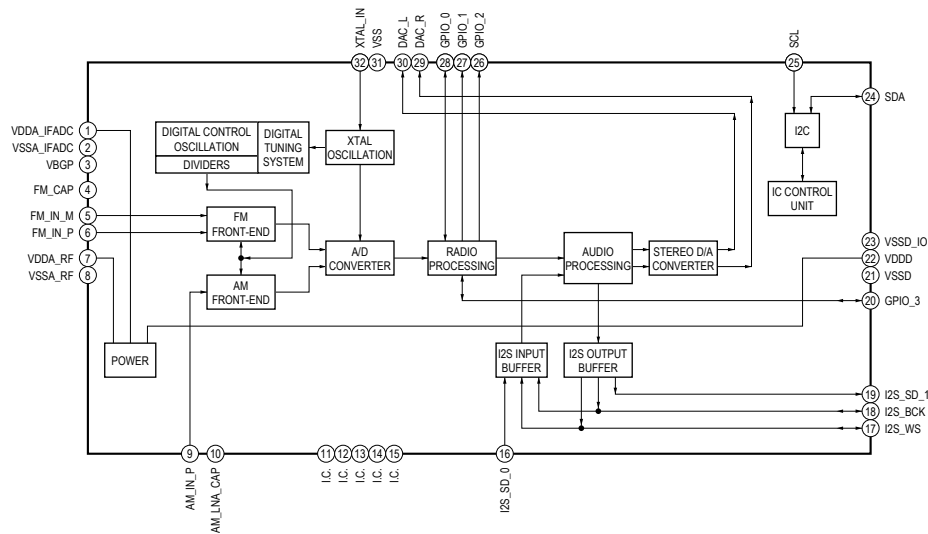
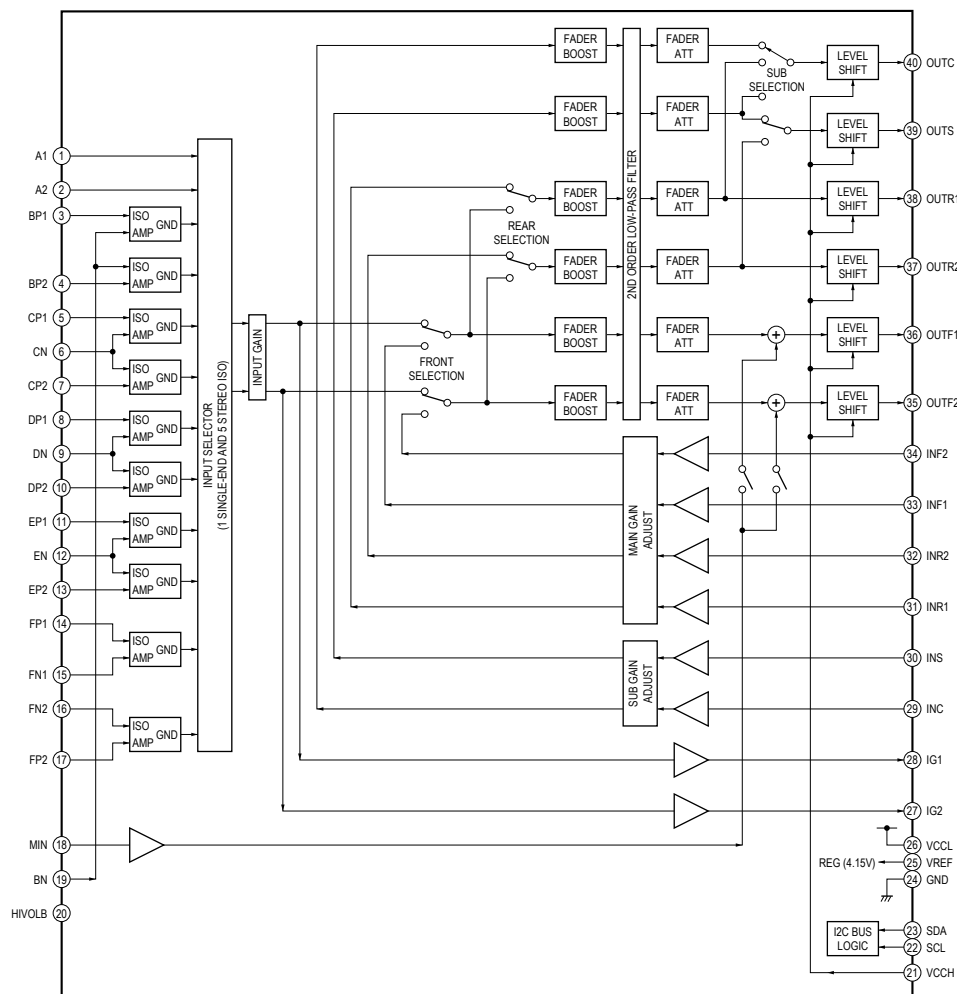
IC1600 TAS5414CTPH-DR



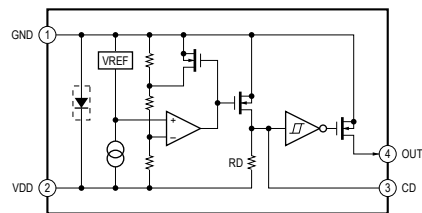
– MAIN Board –

IC001 LM25037MTX/NOPB

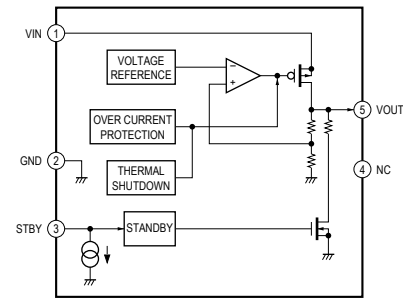


DSX-GS80/M80
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IC01 SDP2014AHN/V205**IC402 BD3468FV-E2**

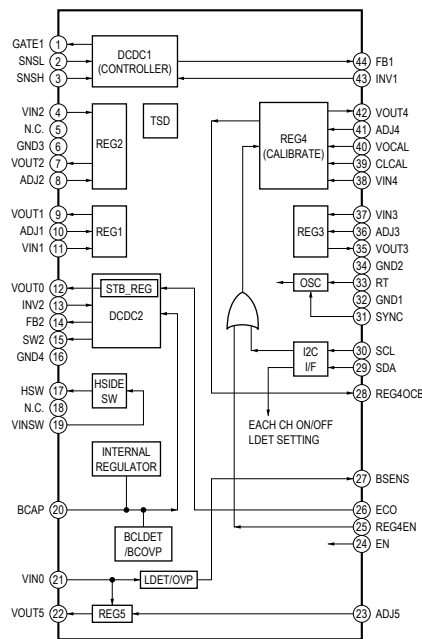
IC501 PST894A280UL



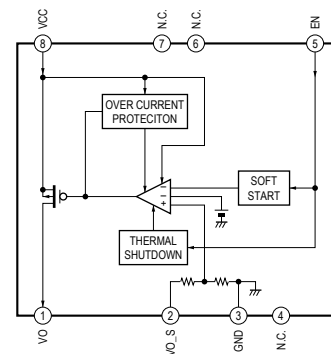
IC702, 1001, 1056 BU33TD3WG-TR
IC703, 704 BU15TD3WG-TR



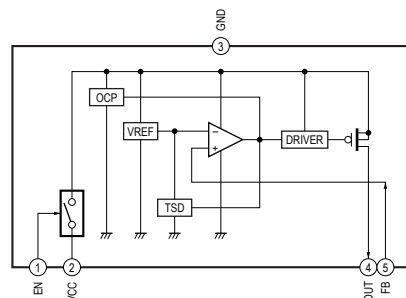
IC803 BD49101ARFS-ME2



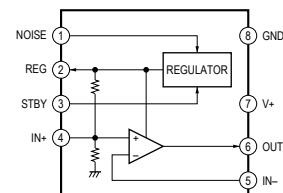
IC804 BD60HC0WEFJ-E2
IC1054 BD12IC0WEFJ-SE2



IC805 BD00FC0EFP-MGE2



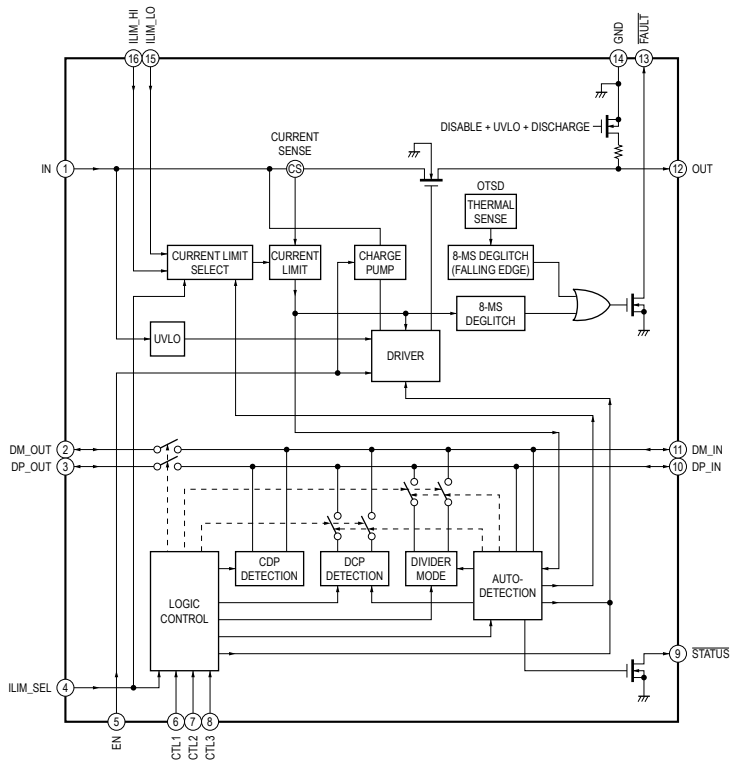
IC1003 NJM2781RB1



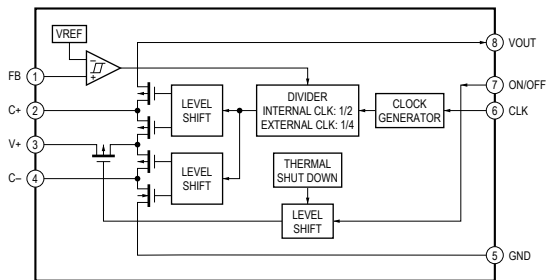
DSX-GS80/M80

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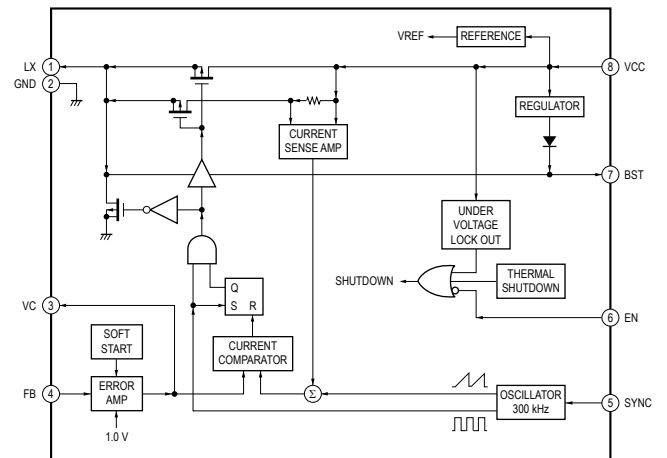
IC1053 TPS2543RTER



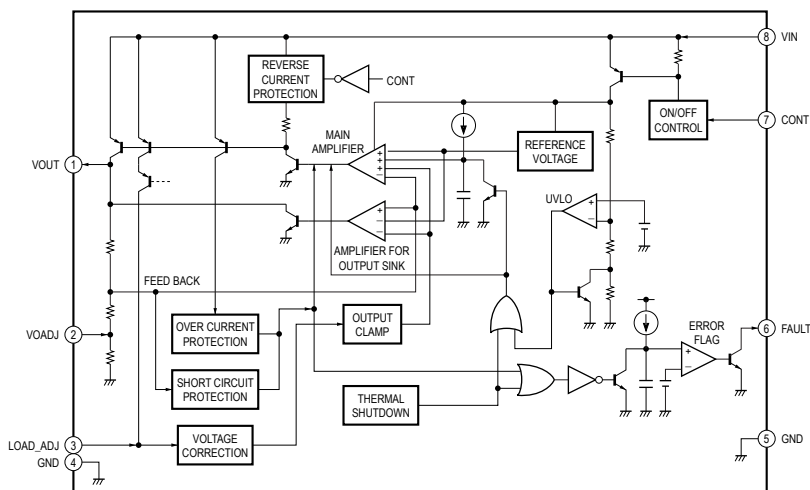
IC1055 NJW4190R-A (TE2)



IC1306 BD9876BEFJ-E2



IC1308 NJM2815GM1-51A



• IC Pin Function Description

MAIN BOARD IC503 R7S7200032CFP-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	BEEP_GAIN	O	Gain selection signal output to the beep gain selector “L”: for 2 ohm mode, “H”: for 4 ohm mode
2	AMP_ATT	O	Amplifier muting on/off control signal output to the power amplifier “H”: muting on
3	AMPSTB	O	Standby signal output to the power amplifier “L”: standby
4	SERVO_ON	O	Power on/off control signal output to the servo section “H”: power on
5	SP_CLK	O	Serial data transfer clock signal output to the audio DSP
6	SP_DATA	I	Serial data input from the audio DSP
7	Vcc	-	Power supply terminal (+1.18V) (for internal)
8	DEC_XMUTE	O	Muting on/off control signal output to the audio DSP “L”: muting on
9	Vss	-	Ground terminal
10	CD_ZDET	I	Zero data detection signal input from the audio DSP
11	PVcc	-	Power supply terminal (+3.3V) (for I/O)
12	BSIF_GATE	O	Gate signal output to the audio DSP
13	DEC_INT	I	Interrupt signal input from the audio DSP
14	DSP_RST	O	Reset signal output to the audio DSP “L”: reset
15	DSP_SSTBY	O	Standby signal output to the audio DSP “L”: standby
16	BSIF_ST_REQ	I	Request signal input from the audio DSP
17	CD_BUSCLK	O	Serial data transfer clock signal output to the audio DSP
18	Vss	-	Ground terminal
19	CD_XCCE	O	Chip enable signal output to the audio DSP
20	CD_SDO	O	Serial data output to the audio DSP
21	Vcc	-	Power supply terminal (+1.18V) (for internal)
22	CD_SDI	I	Serial data input from the audio DSP
23	Vss	-	Ground terminal
24	BSIF_BCK	O	Bit clock signal output to the audio DSP
25	PVcc	-	Power supply terminal (+3.3V) (for I/O)
26	BSIF_LR	O	L/R sampling clock signal output to the audio DSP
27	BSIF_DO	O	Audio data output to the audio DSP
28	BEEP	O	Beep sound drive signal output to the power amplifier
29	DEC_BCK_IN	I	Bit clock signal input from the audio DSP
30	DEC_LRCK_IN	I	L/R sampling clock signal input from the audio DSP
31	Vss	-	Ground terminal
32	DEC_SDOOUT_F	O	Audio data output to the audio DSP
33	DEC_SDIN_CH0	I	Audio data input from the audio DSP
34	Vcc	-	Power supply terminal (+1.18V) (for internal)
35	LCD_CLK	O	Serial data transfer clock signal output to the front panel block
36	Vss	-	Ground terminal
37	NC	-	Not used
38	LCD_CE	O	Chip enable signal output to the front panel block
39	PVcc	-	Power supply terminal (+3.3V) (for I/O)
40	LCD_DO	O	Serial data output to the front panel block
41	MEC_EJECT	O	Not used
42	SYNC_OUT	O	Frequency control signal output to the regulator and DC/DC converter
43	DEBUG_TX	O	Transmit data output terminal for the debug Not used
44	LRCK_INT	I	L/R sampling clock signal input from the pin 26 (BSIF_LR)
45	ACC_IN	I	Accessory power detection signal input terminal “L”: accessory power on
46	Vss	-	Ground terminal
47	DRV_ON	O	Not used
48	XM_TX	O	Serial data output to the SIRIUSXM in connector (GS80: US, CND/M80 only)
49	KEY_ACK1	I	Key acknowledge signal (wake up signal) input from the front panel block
50	PVcc	-	Power supply terminal (+3.3V) (for I/O)
51	MEC_INSW	I	Not used
52	BT_CLK	I	Serial data transfer clock signal input from the BT module
53	BT_SYNC	I	Sync signal input from the BT module
54	BT_DOUT	O	Audio data output to the BT module
55	BT_DIN	I	Audio data input from the BT module
56	BU_IN	I	Back-up power detection signal input terminal “L” is input at low voltage
57	MEC_LIMIT	I	Not used

Pin No.	Pin Name	I/O	Description
58	Vcc	-	Power supply terminal (+1.18V) (for internal)
59	FET_TEMP	-	Not used
60	MEC_LOAD	O	Not used
61	Vss	-	Ground terminal
62	PVcc	-	Power supply terminal (+3.3V) (for I/O)
63	XM_Rx	I	Serial data input from the SIRIUSXM in connector (GS80: US, CND/M80 only)
64	DEBUG_Rx	I	Receive data input terminal for the debug Not used
65	BT_Rx	I	Serial data input from the BT module
66	MD_CLKS	I	Fixed at "L" in this unit
67	RTC_X1	I	System clock input terminal (32.768 kHz)
68	RTC_X2	O	System clock output terminal (32.768 kHz)
69	PLLvcc	-	Power supply terminal (+1.18V) (for PLL)
70	EXTAL	I	System clock input terminal (13.333 MHz)
71	XTAL	O	System clock output terminal (13.333 MHz)
72, 73	Vss	-	Ground terminal
74	NMI	I	Fixed at "H" in this unit
75	Vss	-	Ground terminal
76	RES	I	System reset signal input from the reset signal generator and RESET switch "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
77	PVcc	-	Power supply terminal (+3.3V) (for I/O)
78	FAULT	I	Fault signal input from the power amplifier "L": fault
79	ILL_IN	I	Illuminate line detection signal input terminal
80	CLIP_DET	I	Clip detection or over temperature warning signal input from the power amplifier "L": clip or over temperature
81	RC_IN0	I	Rotary commander key input terminal
82, 83	KEY_IN0, KEY_IN1	I	Front panel key input terminal
84	RC_IN1	I	Rotary commander shift key input terminal
85	Indicate+B	I	Battery voltage level check signal input terminal
86	AVcc	-	Power supply terminal (+3.3V) (analog system)
87	Vss	-	Ground terminal
88	Vss	-	Reference power supply (+3.3V) input terminal (analog system)
89	-	-	Fixed at "L" in this unit
90	PVcc	-	Power supply terminal (+3.3V) (for I/O)
91	Paradisso_BCK	I	Audio clock signal input terminal
92	NC	-	Not used
93	Vss	-	Ground terminal
94	SCUXCLK_SEL	O	Not used
95	Vcc	-	Power supply terminal (+1.18V) (for internal)
96	XM_PWR	O	Power supply on/off control signal output to the SIRIUSXM in connector "H": power on (GS80: US, CND/M80 only)
97	TRST	I	Reset signal input terminal for the JTAG Not used
98	TDO	O	Data output terminal for the JTAG Not used
99	TDI	I	Data input terminal for the JTAG Not used
100	TMS	I	Mode selection signal input terminal for the JTAG Not used
101	TCK	I	Clock signal input terminal for the JTAG Not used
102	Vss	-	Ground terminal
103	DCDC_2OHM	O	Speaker impedance selection signal and power on/off control signal output terminal Pin 103: "L"/Pin 120: "H" = 4 ohm mode power on Pin 103: "H"/Pin 120: "L" = 2 ohm mode power on Pin 103: "L"/Pin 120: "L" = power off
104	EN_SYS	O	Power on/off control signal output to the regulator and DC/DC converter "H": power on
105	Vcc	-	Power supply terminal (+1.18V) (for internal)
106	PWR_ECO	O	Low power mode selection signal output to the regulator "L": low power mode
107	Vss	-	Ground terminal
108	USB_OVR	I	USB over current detection signal input from the regulator and VBUS switch "L": over current
109	PVcc	-	Power supply terminal (+3.3V) (for I/O)
110	USB_ON2	O	USB power on/off control signal output to the +5.1V regulator "H": power on
111	USB_OVR2	I	USB over current detection signal input from the +5.1V regulator "L": over current
112	BT_PWR	O	Power on/off control signal output terminal for the Bluetooth section "H": power on
113	LDO9V_EN	O	Power on/off control signal output terminal for front panel section "H": power on
114	BT_RST	O	Reset signal output to the BT module "L": reset
115	REMOTE1K	O	Rotary commander key control signal output terminal

Pin No.	Pin Name	I/O	Description
116	Vss	-	Ground terminal
117	NC	-	Not used
118	USB_ON	O	USB power on/off control signal output to the regulator "H": power on
119	Vcc	-	Power supply terminal (+1.18V) (for internal)
120	DCDC_4OHM	O	Speaker impedance selection signal and power on/off control signal output terminal Pin 103: "L"/Pin 120: "H" = 4 ohm mode power on Pin 103: "H"/Pin 120: "L" = 2 ohm mode power on Pin 103: "L"/Pin 120: "L" = power off
121	Vss	-	Ground terminal
122	RE_ON	O	Jog dial pulse pull-up signal output terminal
123	PVcc	-	Power supply terminal (+3.3V) (for I/O)
124	MEC_DSW	I	Not used
125	I2C0_SCL	O	Serial data transfer clock signal output to the electrical volume, regulator and EEPROM
126	I2C0_SDA	I/O	Two-way data bus with the electrical volume, regulator and EEPROM
127	I2C1_SCL	O	Serial data transfer clock signal output to the FM/AM receiver
128	I2C1_SDA	I/O	Two-way data bus with the FM/AM receiver
129	DAMP_SCL	O	Serial data transfer clock signal output to the power amplifier
130	DAMP_SDA	I/O	Two-way data bus with the power amplifier
131	HD_SCL	O	Serial data transfer clock signal output terminal Not used
132	HD_SDA	I/O	Two-way data bus terminal Not used
133	BT_TX	O	Serial data output to the BT module
134	REMOTE10K	O	Not used
135	DOOR_SW	I	Front panel remove/attach detection signal input terminal "L": Front panel is attached
136	SIRCS	I	Remote control signal input from the front panel block
137	MEC_SELF SW	I	Not used
138	Vss	-	Ground terminal
139	USB_X1	I	System clock input terminal (48 MHz)
140	USB_X2	O	System clock output terminal (48 MHz)
141	USBDPVcc	-	Power supply terminal (+3.3V) (for USB digital)
142	USBDPVss	-	Ground terminal (for USB digital)
143 to 145	NC	-	Not used
146	USBDVcc	-	Power supply terminal (+1.18V) (for USB digital)
147	USBDVss	-	Ground terminal (for USB digital)
148	USBDPVcc	-	Power supply terminal (+3.3V) (for USB digital)
149	USBDPVss	-	Ground terminal (for USB digital)
150	DM0	I/O	Two-way USB data (-) bus with the USB controller
151	DP0	I/O	Two-way USB data (+) bus with the USB controller
152	VBUSIN0	I	VBUS power detection signal input terminal "H": VBUS power is detected
153	USBDVcc	-	Power supply terminal (+1.18V) (for USB digital)
154	USBDVss	-	Ground terminal (for USB digital)
155	REFRIN	I	External resistor connection terminal
156	USBAPVss	-	Ground terminal (for USB analog)
157	USBAPVcc	-	Power supply terminal (+3.3V) (for USB analog)
158	USBAVcc	-	Power supply terminal (+1.18V) (for USB analog)
159	USBAVss	-	Ground terminal (for USB analog)
160	USBVcc	-	Power supply terminal (+1.18V) (for USB 48 MHz)
161	USBVss	-	Ground terminal (for USB 48 MHz)
162, 163	Vss	-	Ground terminal
164, 165	RE_IN0, RE_IN1	I	Jog dial pulse input from the front panel block
166, 167	SF1_D2, SF1_D3	I/O	Two-way serial data bus with the serial flash
168	SF_CLK	O	Serial data transfer clock signal output to the serial flash
169	SF_CE	O	Chip select signal output to the serial flash
170	SF1_D0	I/O	Two-way serial data bus with the serial flash
171	Vss	-	Ground terminal
172	SF1_D1	I/O	Two-way serial data bus with the serial flash
173	USB_CHG_MOD1	O	USB charge control signal output to USB charging controller "L": charge
174	PVcc	-	Power supply terminal (+3.3V) (for I/O)
175	ATT	O	Audio muting on/off control signal output terminal "H": muting on
176	Litio_RESET	O	Not used

MAIN BOARD IC705 TC94A99FG-003 (SYCH (AUDIO DSP))

Pin No.	Pin Name	I/O	Description
1	LPFO	O	PLL circuit low-pass filter amplifier output terminal
2	PVREF	-	PLL circuit reference voltage (+1.65V) terminal
3	VCOF	O	VCO filter terminal
4	RVSS3	-	Ground terminal
5	VCOI	I	DSP VCO control voltage input terminal
6	RVDD3	-	Power supply terminal (+3.3V)
7	SLCO	O	EFM slice level output terminal
8	RFI	I	RF signal input terminal Not used
9	RFRPI	I	RF ripple signal input terminal
10	RFEQO	O	RF equalizer circuit output terminal
11	DCOFC	O	RF equalizer offset compensation low-pass filter output terminal
12	AGCI	I	RF signal auto gain control amplifier input terminal
13	RFO	O	RF signal generation amplifier output terminal
14	RVSS3	-	Ground terminal
15, 16	FNI2, FNI1	I	Not used
17, 18	FPI2, FPI1	I	Not used
19	VDD1_1	-	Power supply terminal (+1.5V)
20	TPI	I	Not used
21	TNI	I	Not used
22	VRO	O	Reference voltage (+1.65V) output terminal
23	AVSS3	-	Ground terminal
24	MDI	I	Not used
25	LDO	O	Not used
26	FSMONIT	O	Not used
27	RFZI	I	RF ripple zero-cross signal input terminal
28	RFRP	O	RF ripple signal output terminal
29	TEI	O	Tracking error signal output terminal
30	AVDD3	-	Power supply terminal (+3.3V)
31	FOO	O	Not used
32	TRO	O	Not used
33	VSS_1	-	Ground terminal
34	FMO	O	Not used
35	DMO	O	Not used
36	VDDM1	-	Power supply terminal (+1.5V)
37	SRAMSTB	I	Standby signal input from the system controller "L": standby
38	VDD1_2	-	Power supply terminal (+1.5V)
39	VDD3_1	-	Power supply terminal (+3.3V)
40, 41	PIO10/CDMON2, PIO11/CDMON3	I/O	Not used
42	PIO12	I	Audio data input from the system controller
43	PIO13	I	Bit clock signal input from the pin 49 (PIO19)
44	PIO14	I	L/R sampling clock signal input from the pin 48 (PIO18)
45	PIO15	O	Audio data output to the system controller
46, 47	PIO16, PIO17	I/O	Not used
48	PIO18	O	L/R sampling clock signal output to the system controller
49	PIO19	O	Bit clock signal output to the system controller
50	PIO20	I/O	Not used
51	DVDD12	-	Power supply terminal (+3.3V)
52	DAO1	O	Audio signal (rear R-ch) output to the electrical volume
53	DVSS12	-	Ground terminal
54	DAO2	O	Audio signal (front R-ch) output to the electrical volume
55	DVREF	-	Reference voltage terminal
56	DVDD34	-	Power supply terminal (+3.3V)
57	DAO3	O	Audio signal (front L-ch) output to the electrical volume
58	DVSS34	-	Ground terminal
59	DAO4	O	Audio signal (rear L-ch) output to the electrical volume
60	DVDD5	-	Power supply terminal (+3.3V)
61	DAO5	O	Audio signal (sub-ch) output to the electrical volume

Pin No.	Pin Name	I/O	Description
62	DVSS5	-	Ground terminal
63	VDD1_3	-	Power supply terminal (+1.5V)
64	VSS_2	-	Ground terminal
65	XVSS3	-	Ground terminal
66	XI	I	System clock input terminal (16.9344 MHz)
67	XO	O	System clock output terminal (16.9344 MHz)
68	XVDD3	-	Power supply terminal (+3.3V)
69	ADVDD3	-	Power supply terminal (+3.3V)
70	ADIN1	I	Audio signal (L-ch) input from the electrical volume
71	ADVREFL	O	Reference voltage output terminal
72	ADVCM	O	Reference voltage output terminal
73	ADVREFH	O	Reference voltage output terminal
74	ADIN2	I	Audio signal (R-ch) input from the electrical volume
75	ADVSS3	-	Ground terminal
76	MS	I	Microprocessor interface mode selection signal input terminal "L": serial interface, "H": parallel interface Fixed at "L" in this unit
77, 78	BUS0, BUS1	I/O	Serial data input/output terminal Not used
79	BUS2	O	Serial data output to the system controller
80	BUS3	I	Serial data input from the system controller
81	BUCK	I	Serial data transfer clock signal input from the system controller
82	$\overline{\text{CCE}}$	I	Chip enable signal input from the system controller
83	VDD3_2	-	Power supply terminal (+3.3V)
84	VSS_3	-	Ground terminal
85	$\overline{\text{RST}}$	I	Reset signal input from the system controller "L": reset
86	VDD1_4	-	Power supply terminal (+1.5V)
87	PIO0	O	Interrupt signal output to the system controller
88	PIO1	O	Request signal output to the system controller
89	PIO2	I	Gate signal input from the system controller
90	PIO3	I	Audio data input from the system controller
91	PIO4	I	Bit clock signal input from the system controller
92	PIO5	I	L/R sampling clock signal input from the system controller
93	PIO6	I	Muting on/off control signal input from the system controller "L": muting on
94	PIO7	O	Zero data detection signal output to the system controller
95	PIO8/CDMON0	O	Serial data output to the system controller
96	PIO9/CDMON1	I	Serial data transfer clock signal input from the system controller
97	TEST	I	Test mode setting terminal Normally fixed at "L"
98	PDO	O	EFM and PLCK phase difference signal output terminal
99	TMAX	O	TMAX detection result output terminal
100	LPFN	I	PLL circuit low-pass filter amplifier inversion input terminal

MAIN BOARD IC1310 μ PD720114GA-YEU-AT-SAK (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VDD25OUT	O	Internal regulator power supply voltage (+2.5V) output terminal
2	VSSREG	-	Ground terminal (for internal regulator)
3 to 6	LED4 to LED1	O	LED drive signal output terminal Not used
7	GREEN	O	LED (green color) control signal output terminal Not used
8	AMBER	O	LED (amber color) control signal output terminal Not used
9	VDD33	-	Power supply terminal (+3.3V)
10	X1	I	System clock input terminal (30 MHz)
11	X2	O	System clock output terminal (30 MHz)
12	VDD25	-	Power supply terminal (+2.5V)
13	BUS_B	I	Power supply setting terminal Fixed at "H" in this unit
14	TEST	I	Test mode control signal input terminal Fixed at "L" in this unit
15	RREF	-	Reference resistor connection terminal
16	AVSS (R)	-	Ground terminal
17	AVDD	-	Power supply terminal (+2.5V)
18	AVSS	-	Ground terminal
19	AVDD	-	Power supply terminal (+2.5V)
20	VDD33	-	Power supply terminal (+3.3V)
21	DMU	I/O	Two-way USB data (–) bus with the system controller
22	DPU	I/O	Two-way USB data (+) bus with the system controller
23	VSS	-	Ground terminal
24	VDD25	-	Power supply terminal (+2.5V)
25	DM1	I/O	Two-way USB data (–) bus with the front panel block (USB (front))
26	DP1	I/O	Two-way USB data (+) bus with the front panel block (USB (front))
27	VSS	-	Ground terminal
28	DM2	I/O	Two-way USB data (–) bus terminal Not used
29	DP2	I/O	Two-way USB data (+) bus terminal Not used
30	VDD33	-	Power supply terminal (+3.3V)
31	DM3	I/O	Two-way USB data (–) bus terminal Not used
32	DP3	I/O	Two-way USB data (+) bus terminal Not used
33	VDD25	-	Power supply terminal (+2.5V)
34	DM4	I/O	Two-way USB data (–) bus with the USB (rear) cable connector
35	DP4	I/O	Two-way USB data (+) bus with the USB (rear) cable connector
36	VSS	-	Ground terminal
37	SYSRSTB	I	Reset signal input terminal "L": reset Fixed at "H" in this unit
38	PPB4	I	Power control signal input terminal Fixed at "H" in this unit
39	CSB4	I	Over current detection signal input terminal Not used
40	PPB3	I	Power control signal input terminal Fixed at "H" in this unit
41	CSB3	I	Over current detection signal input terminal Not used
42	VSS	-	Ground terminal
43	PPB2	I/O	Power control signal input/output terminal Not used
44	CSB2	I	Over current detection signal input terminal Not used
45	PPB1	I/O	Power control signal input/output terminal Not used
46	CSB1	I	Over current detection signal input terminal
47	VBUSM	I	VBUS power monitor terminal
48	VDD33REG	I	Internal regulator power supply voltage (+3.3V) input terminal

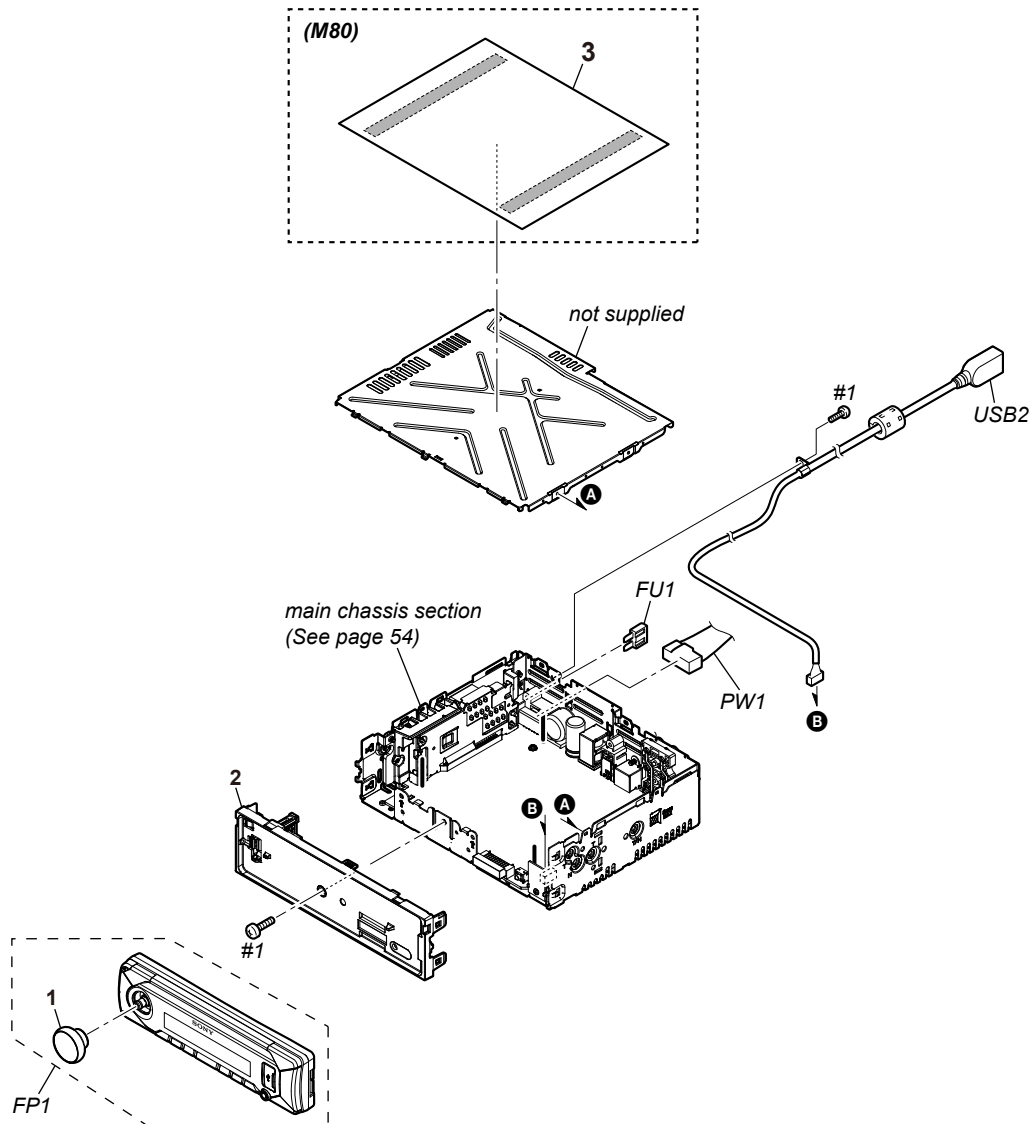
SECTION 6 EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

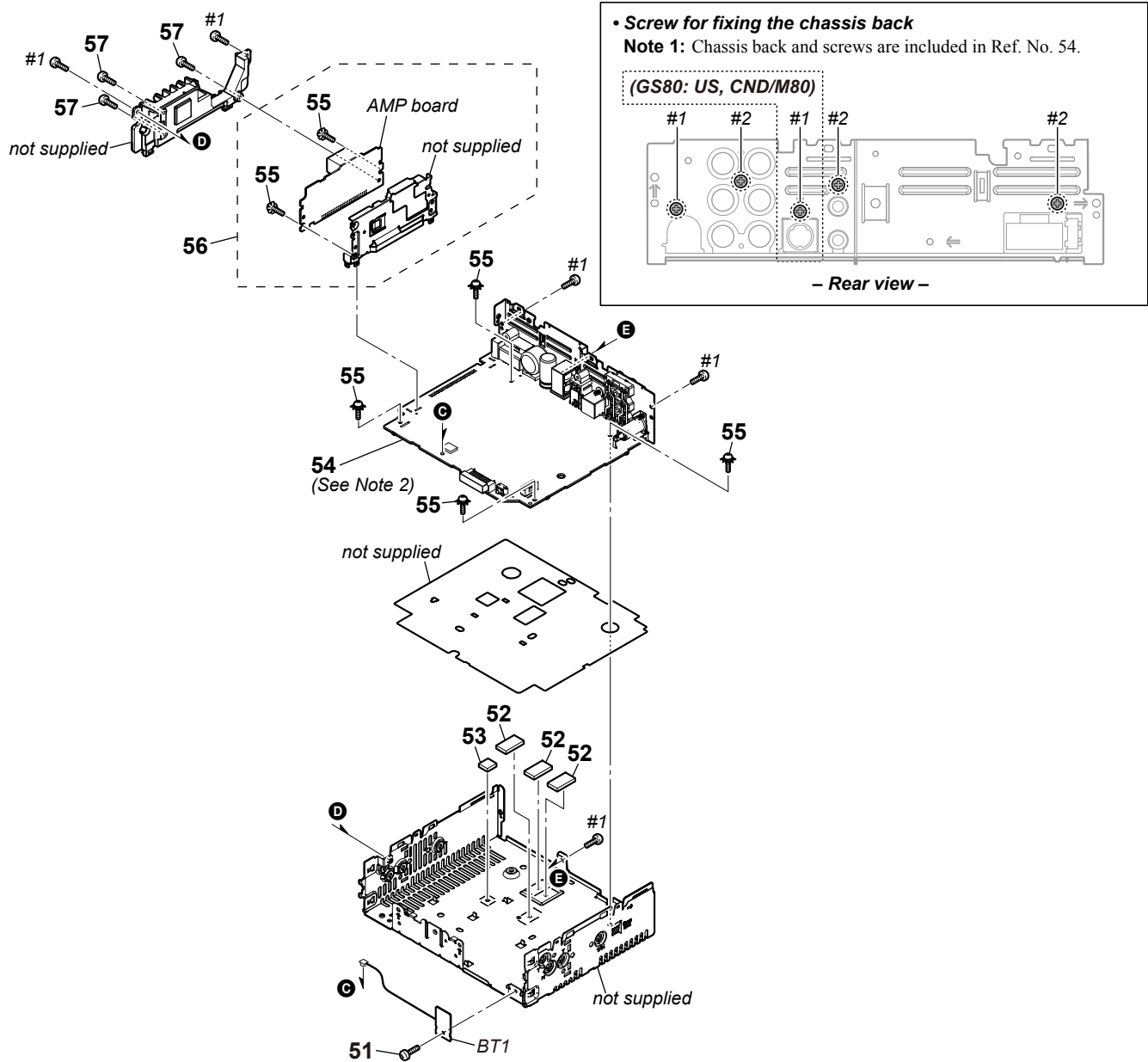
Parts Color Cabinet's Color

6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X25968591	KNOB (VOL) (SV) ASSY		PW1	184697912	CONNECTION CABLE, AUTOMOBILE (Power supply leads) (GS80: US, CND/M80)	
2	X50000761	PANEL, SUB (ASSY)		USB2	100477411	CONNECTION CABLE (AUTOMOBILE) (USB2 port) (GS80)	
3	259030705	SHEET, COVER (M80)		USB2	100477421	CONNECTION CABLE (AUTOMOBILE) (USB2 port with CAP) (M80)	
FP1	A5012216A	PANEL FRONT (SV) ASSY (GS80: US, CND)		#1	768579209	SCREW +PTT 2.6X6 (S)	
FP1	A5012217A	PANEL FRONT (SV) ASSY (GS80: AEP, UK)					
FP1	A5012218A	PANEL FRONT (SV) ASSY (M80)					
FU1	152346111	MINI FUSE (BLADE TYPE) (15 A/32 V)					
PW1	184603312	CONNECTION CABLE (ISO) (Power supply leads) (GS80: AEP, UK)					

6-2. MAIN CHASSIS SECTION



Note 2: When replacing the complete MAIN board (Ref. No. 54), make sure to refer to “NOTE OF REPLACING THE MAIN BOARD” on page 5.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	304224411	SCREW (T) (2.0X4.0 mm)		55	441050401	SCREW (+PTT 2.6X6), GROUND POINT	
52	454882301	SHEET HEAT TRANSFER (10.0X19.0 mm)		56	A2180063A	AMP BOARD, COMPLETE (GS80)	
53	469424901	SHEET HEAT TRANSFER (10.0X10.0 mm)		56	A5011844A	AMP BOARD, COMPLETE (M80)	
54	A5012219A	MAIN BOARD, COMPLETE (SV) (GS80: US, CND)		57	468954901	SCREW, +BV S2X8	
		(See Note 1, 2)					
54	A5012220A	MAIN BOARD, COMPLETE (SV) (GS80: AEP, UK)		BT1	175494511	BT, ANTENNA	
		(See Note 1, 2)		#1	768579209	SCREW +PTT 2.6X6 (S)	
54	A5012221A	MAIN BOARD, COMPLETE (SV) (M80)		#2	768513419	SCREW +P 2.6X8 TYPE2 NON-SLIT	
		(See Note 1, 2)					

AMP

SECTION 7
ELECTRICAL PARTS LIST

Note:

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

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

Among the parts listed in the electrical parts list (page 55 to 65), parts described as "Not supplied" can not be replaced for repairing individually.
If a part that can not be replaced for repair is defective, replace the complete mounted board or the whole parts including the applicable board with a new part.

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
	A2180063A	AMP BOARD, COMPLETE (GS80)					C1651	111640511	CERAMIC CHIP	0.01uF	10%	100V	
	A5011844A	AMP BOARD, COMPLETE (M80)					C1652	111640511	CERAMIC CHIP	0.01uF	10%	100V	
		*****					C1653	111687411	CERAMIC CHIP	10uF	10%	35V	
	441050401	SCREW (+PTT 2.6X6), GROUND POINT					C1654	111687411	CERAMIC CHIP	10uF	10%	35V	
		< CAPACITOR >					C1655	111687411	CERAMIC CHIP	10uF	10%	35V	
C1600	111840311	CERAMIC CHIP	0.001uF	10%	50V		C1656	111687411	CERAMIC CHIP	10uF	10%	35V	
C1602	111840311	CERAMIC CHIP	0.001uF	10%	50V		C1670	111687411	CERAMIC CHIP	10uF	10%	35V	
C1603	112007611	FILM CHIP	0.47uF	20%	50V		C1673	111687411	CERAMIC CHIP	10uF	10%	35V	
C1604	111839111	CERAMIC CHIP	0.01uF	10%	50V		C1674	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1605	111839111	CERAMIC CHIP	0.01uF	10%	50V		C1675	111699221	CERAMIC CHIP	2.2uF	10%	50V	
							C1676	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1606	111836111	CERAMIC CHIP	0.1uF	10%	50V		C1677	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1607	111836111	CERAMIC CHIP	0.1uF	10%	50V		C1678	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1608	111840311	CERAMIC CHIP	0.001uF	10%	50V		C1679	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1610	111840311	CERAMIC CHIP	0.001uF	10%	50V		C1680	111699221	CERAMIC CHIP	2.2uF	10%	50V	
C1611	112007611	FILM CHIP	0.47uF	20%	50V		C1681	111699221	CERAMIC CHIP	2.2uF	10%	50V	
									< CONNECTOR >				
C1613	111839111	CERAMIC CHIP	0.01uF	10%	50V		CN1601	184480911	PIN HEADER 50P				
C1614	111839111	CERAMIC CHIP	0.01uF	10%	50V				< IC >				
C1615	111836111	CERAMIC CHIP	0.1uF	10%	50V		IC1600	672194311	IC TAS5414CTPH-DR				
C1616	111836111	CERAMIC CHIP	0.1uF	10%	50V				< COIL >				
C1617	111838611	CERAMIC CHIP	0.1uF	10%	16V		L1608	146071421	COIL, CHOKE	10uH (4IN1)			
						L1609	146071421	COIL, CHOKE	10uH (4IN1)				
C1618	111840311	CERAMIC CHIP	0.001uF	10%	50V				< RESISTOR >				
C1620	111840311	CERAMIC CHIP	0.001uF	10%	50V		R1600	124835711	RES-CHIP	5.6	1%	1/3W	
C1621	112007611	FILM CHIP	0.47uF	20%	50V		R1601	121896581	METAL CHIP	10K	5%	1/16W	
C1623	111839111	CERAMIC CHIP	0.01uF	10%	50V		R1602	124835711	RES-CHIP	5.6	1%	1/3W	
C1624	111839111	CERAMIC CHIP	0.01uF	10%	50V		R1603	121899081	SHORT CHIP	0			
							R1604	124835711	RES-CHIP	5.6	1%	1/3W	
C1625	111836111	CERAMIC CHIP	0.1uF	10%	50V		* R1605	125052611	METAL CHIP	20K	1%	1/16W	
C1626	111836111	CERAMIC CHIP	0.1uF	10%	50V		R1606	124835711	RES-CHIP	5.6	1%	1/3W	
C1627	111836111	CERAMIC CHIP	0.1uF	10%	50V		R1607	121899081	SHORT CHIP	0			
C1628	111840311	CERAMIC CHIP	0.001uF	10%	50V		R1608	124835711	RES-CHIP	5.6	1%	1/3W	
C1631	112007611	FILM CHIP	0.47uF	20%	50V		R1612	124835711	RES-CHIP	5.6	1%	1/3W	
C1632	111839111	CERAMIC CHIP	0.01uF	10%	50V		R1613	121899081	SHORT CHIP	0			
C1633	111839111	CERAMIC CHIP	0.01uF	10%	50V		R1614	124835711	RES-CHIP	5.6	1%	1/3W	
C1634	111836111	CERAMIC CHIP	0.1uF	10%	50V		R1615	124835711	RES-CHIP	5.6	1%	1/3W	
C1635	111836111	CERAMIC CHIP	0.1uF	10%	50V		R1616	121899081	SHORT CHIP	0			
C1636	111687411	CERAMIC CHIP	10uF	10%	35V		R1620	121899081	SHORT CHIP	0			
C1637	111839111	CERAMIC CHIP	0.01uF	10%	50V		R1622	121899081	SHORT CHIP	0			
C1638	111840311	CERAMIC CHIP	0.001uF	10%	50V								
C1639	111839111	CERAMIC CHIP	0.01uF	10%	50V								
C1640	111687411	CERAMIC CHIP	10uF	10%	35V								
C1641	112003311	CERAMIC CHIP	0.33uF	10%	10V								
C1642	111804411	CERAMIC CHIP	1uF	10%	50V								
C1648	111804411	CERAMIC CHIP	1uF	10%	50V								
C1649	111640511	CERAMIC CHIP	0.01uF	10%	100V								
C1650	111640511	CERAMIC CHIP	0.01uF	10%	100V								

DSX-GS80/M80

Sony CONFIDENTIAL
For Authorized Servicer

AMP KEY MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1623	121899081	SHORT CHIP	0			C417	112214911	CERAMIC CHIP	2.2uF	10%	16V
R1624	121899081	SHORT CHIP	0			C420	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
R1625	121899081	SHORT CHIP	0			C421	(Not supplied)	CERAMIC CHIP	1uF	(GS80: US, CND/M80)	
R1626	121899081	SHORT CHIP	0							20%	16V
										(GS80: US, CND/M80)	
R1627	121686491	SHORT CHIP	0			C422	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
*****										(GS80: US, CND/M80)	
KEY BOARD						C425	112214911	CERAMIC CHIP	2.2uF	10%	16V
*****						C428	111459921	ELECT CHIP	10uF	20%	35V
Individual electrical parts that mounted on the KEY board cannot be replaced.						C446	111459921	ELECT CHIP	10uF	20%	35V
When the KEY board is defective, replace the panel front assy (Ref. No. FP1) including the KEY board with new parts.						C447	111878111	CERAMIC CHIP	47PF	5%	50V
*****						C448	111878111	CERAMIC CHIP	47PF	5%	50V
	A5012219A	MAIN BOARD, COMPLETE (SV) (GS80: US, CND)				C449	111878111	CERAMIC CHIP	47PF	5%	50V
		(See Note)				C450	111878111	CERAMIC CHIP	47PF	5%	50V
	A5012220A	MAIN BOARD, COMPLETE (SV) (GS80: AEP, UK)				C451	111878111	CERAMIC CHIP	47PF	5%	50V
		(See Note)				C457	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
	A5012221A	MAIN BOARD, COMPLETE (SV) (M80) (See Note)				C458	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
		*****				C459	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
	768513419	SCREW +P 2.6X8 TYPE2 NON-SLIT				C460	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
	768579209	SCREW +PTT 2.6X6 (S)				C461	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
		< CAPACITOR >				C464	111878111	CERAMIC CHIP	47PF	5%	50V
C2	111885211	CERAMIC CHIP	18PF	1%	50V	C465	111878111	CERAMIC CHIP	47PF	5%	50V
C03	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C466	111878111	CERAMIC CHIP	47PF	5%	50V
C3	112021811	CERAMIC CHIP	0.001uF	10%	50V	C467	111878111	CERAMIC CHIP	47PF	5%	50V
C4	111882611	CERAMIC CHIP	4.7PF		50V	C468	111878111	CERAMIC CHIP	47PF	5%	50V
* C5	111482391	CERAMIC CHIP	33PF	1%	50V	C469	111878111	CERAMIC CHIP	47PF	5%	50V
C6	(Not supplied)	CERAMIC CHIP	4PF		50V	C501	116549221	ELECT CHIP	100uF	20%	10V
C8	(Not supplied)	CERAMIC CHIP	10PF	5%	50V	C502	116549221	ELECT CHIP	100uF	20%	10V
C11	111674511	CERAMIC CHIP	0.22uF	10%	6.3V	C503	100117511	CERAMIC CHIP	0.01uF	5%	50V
C12	112021811	CERAMIC CHIP	0.001uF	10%	50V	C508	111829011	CERAMIC CHIP	0.001uF	10%	50V
C13	111673711	CERAMIC CHIP	1uF	20%	10V	C522	111219991	CERAMIC CHIP	6PF	0.5PF	50V
C15	112021811	CERAMIC CHIP	0.001uF	10%	50V	C531	(Not supplied)	CERAMIC CHIP	20PF	5%	50V
C16	(Not supplied)	CERAMIC CHIP	0.0015uF	10%	10V	C533	(Not supplied)	CERAMIC CHIP	20PF	5%	50V
C20	111673711	CERAMIC CHIP	1uF	20%	10V	C541	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
C21	111673711	CERAMIC CHIP	1uF	20%	10V	C559	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C24	(Not supplied)	CERAMIC CHIP	33PF	5%	50V	C560	112093111	CERAMIC CHIP	47uF	20%	6.3V
C25	(Not supplied)	CERAMIC CHIP	33PF	5%	50V	C564	110035421	ELECT CHIP	220uF	20%	6.3V
* C28	111672011	CERAMIC CHIP	10uF	20%	6.3V	C567	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
C30	112215611	CERAMIC CHIP	1uF	20%	10V	C570	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
C31	112021811	CERAMIC CHIP	0.001uF	10%	50V	C574	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C102	111671611	CERAMIC CHIP	10uF	10%	16V	C575	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C103	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C576	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C104	112021811	CERAMIC CHIP	0.001uF	10%	50V	C577	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C105	112097911	CERAMIC CHIP	2.2uF	20%	6.3V	C578	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C106	112021811	CERAMIC CHIP	0.001uF	10%	50V	C579	112097911	CERAMIC CHIP	2.2uF	20%	6.3V
C107	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C580	111884911	CERAMIC CHIP	10PF	1%	50V
C108	100117511	CERAMIC CHIP	0.01uF	5%	50V	C581	111884911	CERAMIC CHIP	10PF	1%	50V
C113	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V	C583	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C304	110038211	ELECT CHIP	4.7uF	20%	35V	C587	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C305	110038211	ELECT CHIP	4.7uF	20%	35V	C588	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C306	110038211	ELECT CHIP	4.7uF	20%	35V	C589	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C307	110038211	ELECT CHIP	4.7uF	20%	35V	C590	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C401	112899221	ELECT CHIP	47uF	20%	25V	C591	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C408	110038111	ELECT CHIP	10uF	20%	16V	C592	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C409	110038111	ELECT CHIP	10uF	20%	16V	C593	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C410	110038111	ELECT CHIP	10uF	20%	16V	C594	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C411	110038111	ELECT CHIP	10uF	20%	16V	C595	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C412	111804711	CERAMIC CHIP	10uF	10%	16V	C596	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
						C597	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
						C598	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
						C599	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V

Note: When the complete MAIN board is replaced, be sure to refer to "NOTE OF REPLACING THE MAIN BOARD" on page 5.

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C600	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C0734	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C601	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C734	111839411	CERAMIC CHIP	0.0056uF	10%	50V
C602	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C0735	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C603	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C735	(Not supplied)	CERAMIC CHIP	0.033uF	10%	6.3V
C604	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C737	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C605	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C0738	(Not supplied)	CERAMIC CHIP	0.0022uF	10%	25V
C606	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C738	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C607	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C0739	(Not supplied)	CERAMIC CHIP	0.0022uF	10%	25V
C608	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C739	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C609	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C0740	(Not supplied)	CERAMIC CHIP	0.0022uF	10%	25V
C610	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C740	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C611	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C741	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
C613	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C743	112477821	ELECT CHIP	22uF	20%	6.3V
C615	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C744	110038111	ELECT CHIP	10uF	20%	16V
C616	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C746	110038111	ELECT CHIP	10uF	20%	16V
C617	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C748	110038111	ELECT CHIP	10uF	20%	16V
C618	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C750	110038111	ELECT CHIP	10uF	20%	16V
C619	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C751	111672811	CERAMIC CHIP	2.2uF	10%	10V
C621	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C755	112021811	CERAMIC CHIP	0.001uF	10%	50V
C625	111884911	CERAMIC CHIP	10PF	1%	50V	C756	(Not supplied)	CERAMIC CHIP	12PF	5%	50V
C629	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	* C760	111839011	CERAMIC CHIP	0.015uF	10%	25V
C631	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C763	(Not supplied)	CERAMIC CHIP	12PF	5%	50V
C0701	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C765	111847711	CERAMIC CHIP	2.2uF	10%	6.3V
C0703	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C769	111672811	CERAMIC CHIP	2.2uF	10%	10V
C0704	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C772	111847711	CERAMIC CHIP	2.2uF	10%	6.3V
C704	112219011	CERAMIC CHIP	1uF	20%	6.3V	C773	111672811	CERAMIC CHIP	2.2uF	10%	10V
C0705	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C775	111672811	CERAMIC CHIP	2.2uF	10%	10V
C0706	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C777	111672811	CERAMIC CHIP	2.2uF	10%	10V
C706	112219011	CERAMIC CHIP	1uF	20%	6.3V	C779	111672811	CERAMIC CHIP	2.2uF	10%	10V
C0707	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	* C783	111839011	CERAMIC CHIP	0.015uF	10%	25V
C707	112219011	CERAMIC CHIP	1uF	20%	6.3V	C796	113536621	ELECT CHIP	100uF	20%	16V
C0708	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C801	111892911	CERAMIC CHIP	47uF	10%	16V
C0709	112215611	CERAMIC CHIP	1uF	20%	10V	C803	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0710	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C804	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0711	112215611	CERAMIC CHIP	1uF	20%	10V	C805	(Not supplied)	CERAMIC CHIP	680PF	10%	25V
C0712	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C807	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0713	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	(GS80: US, CND/M80)					
C0714	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C814	113536621	ELECT CHIP	100uF	20%	16V
C0715	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C815	112236211	CERAMIC CHIP	10uF	10%	35V
C715	111847711	CERAMIC CHIP	2.2uF	10%	6.3V	C818	112236211	CERAMIC CHIP	10uF	10%	35V
C0716	112215611	CERAMIC CHIP	1uF	20%	10V	C819	112236211	CERAMIC CHIP	10uF	10%	35V
C716	111847711	CERAMIC CHIP	2.2uF	10%	6.3V	C821	111804711	CERAMIC CHIP	10uF	10%	16V
C0717	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C822	111804711	CERAMIC CHIP	10uF	10%	16V
C0718	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C829	(Not supplied)	CERAMIC CHIP	220PF	10%	25V
C0719	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C830	111840811	CERAMIC CHIP	390PF	10%	50V
C0720	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C831	111866011	ELECT CHIP	220uF	20%	16V
C0721	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C833	(Not supplied)	CERAMIC CHIP	470PF	10%	50V
C0722	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C834	112236211	CERAMIC CHIP	10uF	10%	35V
C0723	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C835	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0724	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C837	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0725	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C841	112219811	CERAMIC CHIP	0.47uF	20%	25V
C725	112021811	CERAMIC CHIP	0.001uF	10%	50V	C842	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C0726	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C843	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C0727	112215611	CERAMIC CHIP	1uF	20%	10V	C844	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C0728	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C846	111671611	CERAMIC CHIP	10uF	10%	16V
C0729	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C848	111892911	CERAMIC CHIP	47uF	10%	16V
C0730	(Not supplied)	CERAMIC CHIP	0.1uF	10%	16V	C850	112236211	CERAMIC CHIP	10uF	10%	35V
C0731	111878111	CERAMIC CHIP	47PF	5%	50V	C851	111829011	CERAMIC CHIP	0.001uF	10%	50V
C0732	112091711	CERAMIC CHIP	0.1uF	10%	25V	C853	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C0733	112091711	CERAMIC CHIP	0.1uF	10%	25V	C854	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
						C855	112021811	CERAMIC CHIP	0.001uF	10%	50V

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C857	(Not supplied)	CERAMIC CHIP	1uF	10%	35V	C1431	112094811	CERAMIC CHIP	4.7uF	20%	6.3V
C858	111878811	CERAMIC CHIP	100PF	5%	50V	C1432	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
				(GS80: US, CND/M80)		C1434	112094811	CERAMIC CHIP	4.7uF	20%	6.3V
C859	111878811	CERAMIC CHIP	100PF	5%	50V						
				(GS80: US, CND/M80)		C1435	112094811	CERAMIC CHIP	4.7uF	20%	6.3V
C860	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C1437	(Not supplied)	CERAMIC CHIP	1uF	20%	16V
				(GS80: US, CND/M80)		C1441	111804711	CERAMIC CHIP	10uF	10%	16V
C861	111671611	CERAMIC CHIP	10uF	10%	16V	C1443	(Not supplied)	CERAMIC CHIP	0.0033uF	10%	25V
						C1444	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C862	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V						
				(GS80: US, CND/M80)		C1445	112215611	CERAMIC CHIP	1uF	20%	10V
C863	(Not supplied)	CERAMIC CHIP	0.0022uF	10%	25V	C1448	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C864	111884911	CERAMIC CHIP	10PF	1%	50V	C1449	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C865	111892911	CERAMIC CHIP	47uF	10%	16V	C1450	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C866	111892911	CERAMIC CHIP	47uF	10%	16V	C1451	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C878	112218411	CERAMIC CHIP	2.2uF	10%	10V	C1452	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C890	111866011	ELECT CHIP	220uF	20%	16V	C1453	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1004	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1454	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1005	(Not supplied)	CERAMIC CHIP	47uF	20%	10V	C1455	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1008	112214911	CERAMIC CHIP	2.2uF	10%	16V	C1456	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1009	112214911	CERAMIC CHIP	2.2uF	10%	16V	C1457	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1010	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1458	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V
C1011	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1459	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1012	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1468	(Not supplied)	CERAMIC CHIP	22uF	20%	10V
C1014	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1500	111829011	CERAMIC CHIP	0.001uF	10%	50V
C1016	111671611	CERAMIC CHIP	10uF	10%	16V	C1501	111895211	CERAMIC CHIP	1uF	10%	50V
C1017	112021811	CERAMIC CHIP	0.001uF	10%	50V	C1504	111829011	CERAMIC CHIP	0.001uF	10%	50V
C1018	112094811	CERAMIC CHIP	4.7uF	20%	6.3V	C1505	112899621	ELECT CHIP	4.7uF	20%	50V
C1028	112219811	CERAMIC CHIP	0.47uF	20%	25V	C1506	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1029	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C1507	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1030	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C1508	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1033	(Not supplied)	CERAMIC CHIP	0.047uF	10%	10V	C1509	111224221	ELECT	1500uF	20%	25V
C1054	111829011	CERAMIC CHIP	0.001uF	10%	50V	C1510	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C1304	(Not supplied)	CERAMIC CHIP	0.0022uF	10%	25V	C1511	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V
C1306	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V	C1512	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1307	(Not supplied)	CERAMIC CHIP	1uF	10%	35V	C1513	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1308	(Not supplied)	CERAMIC CHIP	1uF	10%	35V	C1514	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1309	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C1515	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1310	(Not supplied)	CERAMIC CHIP	0.1uF	10%	25V	C1516	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1360	(Not supplied)	CERAMIC CHIP	47uF	20%	10V	C1517	(Not supplied)	CERAMIC CHIP	0.1uF	10%	35V
C1361	110076721	ELECT CHIP	220uF	20%	16V	C1518	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1372	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	C1519	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1380	111829011	CERAMIC CHIP	0.001uF	10%	50V	C1520	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1381	111804711	CERAMIC CHIP	10uF	10%	16V	C1521	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1382	110035421	ELECT CHIP	220uF	20%	6.3V	C1522	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1383	110035421	ELECT CHIP	220uF	20%	6.3V	C1523	(Not supplied)	CERAMIC CHIP	1uF	10%	35V
C1385	111269211	CERAMIC CHIP	1000PF	5%	50V	C1525	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1386	111269211	CERAMIC CHIP	1000PF	5%	50V	C1526	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1387	111269211	CERAMIC CHIP	1000PF	5%	50V	C1527	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1390	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C1528	111649311	CERAMIC CHIP	4.7uF	10%	50V
C1393	111643721	ELECT	1000uF	20%	16V	C1537	111878811	CERAMIC CHIP	100PF	5%	50V
C1400	111829011	CERAMIC CHIP	0.001uF	10%	50V	C1539	111878811	CERAMIC CHIP	100PF	5%	50V
C1403	100117511	CERAMIC CHIP	0.01uF	5%	50V	C1546	111878111	CERAMIC CHIP	47PF	5%	50V
C1404	100117511	CERAMIC CHIP	0.01uF	5%	50V	C1550	111878111	CERAMIC CHIP	47PF	5%	50V
C1405	111829011	CERAMIC CHIP	0.001uF	10%	50V	C1551	(Not supplied)	CERAMIC CHIP	0.047uF	10%	10V
C1407	111884911	CERAMIC CHIP	10PF	1%	50V	C1552	111878111	CERAMIC CHIP	47PF	5%	50V
C1408	111884911	CERAMIC CHIP	10PF	1%	50V	C1553	111878111	CERAMIC CHIP	47PF	5%	50V
C1412	(Not supplied)	CERAMIC CHIP	0.01uF	10%	25V	C1556	111878111	CERAMIC CHIP	47PF	5%	50V
C1413	112236211	CERAMIC CHIP	10uF	10%	35V	C1558	111878111	CERAMIC CHIP	47PF	5%	50V
C1422	111804711	CERAMIC CHIP	10uF	10%	16V	C1560	111878111	CERAMIC CHIP	47PF	5%	50V
C1423	111804711	CERAMIC CHIP	10uF	10%	16V	C1562	111878111	CERAMIC CHIP	47PF	5%	50V
C1425	116549221	ELECT CHIP	100uF	20%	10V	C1564	100117511	CERAMIC CHIP	0.01uF	5%	50V

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
C1574	111283911	ELECT	4700uF	20%	16V	D802	650297201	DIODE DZ2J09100L	
C1575	111251491	CERAMIC CHIP	1500PF	5%	50V				
C1576	111251491	CERAMIC CHIP	1500PF	5%	50V				
C1577	(Not supplied)	CERAMIC CHIP	680PF	10%	25V	* D805	650303101	DIODE DZ2J18000L (GS80: US, CND/M80)	
C1578	100117511	CERAMIC CHIP	0.01uF	5%	50V	D806	650397301	DIODE RSX205L-30TE25	
C1579	111804711	CERAMIC CHIP	10uF	10%	16V	D807	650303101	DIODE DZ2J18000L (GS80: US, CND/M80)	
C1585	111829011	CERAMIC CHIP	0.001uF	10%	50V	D808	650303101	DIODE DZ2J18000L (GS80: US, CND/M80)	
C1590	111224221	ELECT	1500uF	20%	25V	D809	650362801	DIODE UDZVTE-1718B (GS80: US, CND/M80)	
C1591	111224221	ELECT	1500uF	20%	25V				
C1592	112236211	CERAMIC CHIP	10uF	10%	35V	D816	650404701	DIODE RSX051VA-30	
C1593	112236211	CERAMIC CHIP	10uF	10%	35V	D817	650301601	DIODE DZ2J07500L	
C1598	111649311	CERAMIC CHIP	4.7uF	10%	50V	D818	650303101	DIODE DZ2J18000L	
C1600	111829011	CERAMIC CHIP	0.001uF	10%	50V	D1002	650296901	DIODE DZ2J06800L	
C1602	100117511	CERAMIC CHIP	0.01uF	5%	50V	D1306	650375901	DIODE RB751V40, 115	
C1604	100117511	CERAMIC CHIP	0.01uF	5%	50V				
C1606	112215611	CERAMIC CHIP	1uF	20%	10V	D1309	650385701	DIODE BAW56	
C1609	111878811	CERAMIC CHIP	100PF	5%	50V	D1312	650296901	DIODE DZ2J06800L	
C1610	111829011	CERAMIC CHIP	0.001uF	10%	50V	D1313	650354801	DIODE DB2441600L	
C1611	111829011	CERAMIC CHIP	0.001uF	10%	50V	D1314	650303101	DIODE DZ2J18000L	
C1612	(Not supplied)	CERAMIC CHIP	1uF	10%	35V	D1315	650303101	DIODE DZ2J18000L	
C1626	111804711	CERAMIC CHIP	10uF	10%	16V				
C1643	111878111	CERAMIC CHIP	47PF	5%	50V	D1316	650361801	DIODE UDZVTE-176.8B	
C1644	111878111	CERAMIC CHIP	47PF	5%	50V	D1317	650361801	DIODE UDZVTE-176.8B	
C1645	112080011	CERAMIC CHIP	22uF	20%	25V	D1320	650296101	DIODE DA2J10100L	
C1646	112080011	CERAMIC CHIP	22uF	20%	25V	D1322	650296901	DIODE DZ2J06800L	
C1647	112218011	CERAMIC CHIP	0.022uF	10%	16V	D1501	650303101	DIODE DZ2J18000L	
C1648	112218011	CERAMIC CHIP	0.022uF	10%	16V				
C1649	(Not supplied)	CERAMIC CHIP	0.0068uF	10%	6.3V	D1502	650303101	DIODE DZ2J18000L	
C1652	112215611	CERAMIC CHIP	1uF	20%	10V	D1503	650323801	DIODE GN1G	
					(GS80: AEP, UK)	D1504	650303101	DIODE DZ2J18000L	
C1653	(Not supplied)	CERAMIC CHIP	1uF	20%	16V	D1505	650296101	DIODE DA2J10100L	
C1654	112214911	CERAMIC CHIP	2.2uF	10%	16V	D1506	650323801	DIODE GN1G	
C1655	(Not supplied)	CERAMIC CHIP	0.0047uF	10%	16V				
					(GS80: AEP, UK)	D1512	650296901	DIODE DZ2J06800L	
C1656	111829011	CERAMIC CHIP	0.001uF	10%	50V	D1513	650302901	DIODE DZ2J16000L	
					(GS80: AEP, UK)	D1514	650323801	DIODE GN1G	
C1657	111829011	CERAMIC CHIP	0.001uF	10%	50V	D1517	(Not supplied)	DIODE NTS1260MFST1G	
					(GS80: US, CND/M80)	D1520	(Not supplied)	DIODE NTS1260MFST1G	
C1658	(Not supplied)	CERAMIC CHIP	0.0047uF	10%	16V				
					(GS80: US, CND/M80)				
C1659	111866011	ELECT CHIP	220uF	20%	16V				
C1918	(Not supplied)	CERAMIC CHIP	0.1uF	10%	10V				
C1931	112218011	CERAMIC CHIP	0.022uF	10%	16V				
< CONNECTOR >									
CN101	184226623	SOCKET, CONNECTOR 20P							
CN801	177988621	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (GS80: US, CND/M80)							
CN1002	182155911	CONNECTOR, COAXIAL (SMT TYPE)							
CN1004	177999321	PIN, CONNECTOR (PWB) 5P							
CN1502	184333031	PIN, CONNECTOR 16P							
< DIODE/VARISTOR >									
D001	650354801	DIODE DB2441600L							
D106	650296901	DIODE DZ2J06800L							
D114	650361801	DIODE UDZVTE-176.8B							
D115	180504312	ABSORBER, CHIP SURGE							
D116	180504312	ABSORBER, CHIP SURGE							
D401	650296101	DIODE DA2J10100L							
D501	650375901	DIODE RB751V40, 115							
D502	650375901	DIODE RB751V40, 115							
D801	650404101	DIODE RB050L-60							
< FUSE >									
* F801	157641631	FUSE (2 A/36 V) (GS80: US, CND/M80)							
< FERRITE BEAD >									
FB1	148191221	EMI FERRITE (SMD) (1005)							
FB02	140033421	FERRITE, EMI (SMD) (1608)							
FB101	150011322	BEAD, FERRITE (CHIP) (1608)							
FB401	140033421	FERRITE, EMI (SMD) (1608)							
FB402	140033421	FERRITE, EMI (SMD) (1608)							
FB403	140033421	FERRITE, EMI (SMD) (1608)							
FB404	150011322	BEAD, FERRITE (CHIP) (1608)							
									(GS80: US, CND/M80)
FB501	150011322	BEAD, FERRITE (CHIP) (1608)							
FB504	150011322	BEAD, FERRITE (CHIP) (1608)							
FB702	146908421	INDUCTOR, FERRITE BEAD (1005)							
FB703	146908421	INDUCTOR, FERRITE BEAD (1005)							
FB705	146909421	FERRITE, EMI (SMD) (1608)							
FB706	146909421	FERRITE, EMI (SMD) (1608)							
FB801	150011322	BEAD, FERRITE (CHIP) (1608)							
FB802	150011322	BEAD, FERRITE (CHIP) (1608)							
FB803	150011322	BEAD, FERRITE (CHIP) (1608)							
FB804	150011322	BEAD, FERRITE (CHIP) (1608)							
									(GS80: US, CND/M80)
FB805	150011322	BEAD, FERRITE (CHIP) (1608)							
FB1003	150011322	BEAD, FERRITE (CHIP) (1608)							

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB1005	150011322	BEAD, FERRITE (CHIP) (1608)				< JACK >	
FB1006	150011322	BEAD, FERRITE (CHIP) (1608)		J001	184491721	JACK (ANT) (ANTENNA IN)	
FB1007	150011322	BEAD, FERRITE (CHIP) (1608)		J402	184464911	JACK, PIN 6P (AUDIO OUT FRONT/REAR/SUB)	
FB1008	150011322	BEAD, FERRITE (CHIP) (1608)		J1001	184465521	JACK (MIC, REMOTE)	
FB1009	150011322	BEAD, FERRITE (CHIP) (1608)				< COIL >	
FB1010	150011322	BEAD, FERRITE (CHIP) (1608)					
FB1011	150011322	BEAD, FERRITE (CHIP) (1608)		L01	140007321	INDUCTOR	4.7uH
FB1012	150011322	BEAD, FERRITE (CHIP) (1608)		L001	145763011	COIL, CHOKE	47uH
FB1013	150011322	BEAD, FERRITE (CHIP) (1608)		L1	146929321	INDUCTOR	220nH
FB1014	150011322	BEAD, FERRITE (CHIP) (1608)		L2	148278511	INDUCTOR	0.82uH
FB1015	150011322	BEAD, FERRITE (CHIP) (1608)		L3	148267821	INDUCTOR	220nH
FB1016	140005021	INDUCTOR, FERRITE BEAD		L5	148278611	INDUCTOR	3.3uH
FB1017	140005021	INDUCTOR, FERRITE BEAD		L6	146929321	INDUCTOR	220nH
FB1018	148193711	EMI FERRITE (SMD) (1005)		L401	146984421	INDUCTOR	2.2uH
FB1019	148193711	EMI FERRITE (SMD) (1005)		L402	146984421	INDUCTOR	2.2uH
FB1020	141476021	FERRITE, EMI (SMD) (1608)		L501	141484221	INDUCTOR	15nH
FB1501	148174611	SDM EMI FERRITE		L502	141484221	INDUCTOR	15nH
FB1502	148191221	EMI FERRITE (SMD) (1005)		L504	140007321	INDUCTOR	4.7uH
FB1503	148191221	EMI FERRITE (SMD) (1005)		L505	140007321	INDUCTOR	4.7uH
FB1504	148135021	EMI FERRITE (SMD) (1608)		L801	146054911	INDUCTOR	22uH
FB1505	148135021	EMI FERRITE (SMD) (1608)		L802	145763011	COIL, CHOKE	47uH
FB1506	148191221	EMI FERRITE (SMD) (1005)		L1309	141484221	INDUCTOR	15nH
FB1507	148191221	EMI FERRITE (SMD) (1005)		L1310	141484221	INDUCTOR	15nH
FB1520	140083421	FERRITE, EMI (SMD) (1005)		L1311	140007321	INDUCTOR	4.7uH
FB1521	140083421	FERRITE, EMI (SMD) (1005)		L1312	145763011	COIL, CHOKE	47uH
FB1625	140015021	FERRITE, EMI (SMD) (4516)		L1313	141484221	INDUCTOR	15nH
FB1658	150011322	BEAD, FERRITE (CHIP) (1608)		L1314	141484221	INDUCTOR	15nH
		< IC/BT MODULE >		L1501	146094811	CHOKE COIL	
IC001	672349801	IC LM25037MTX/NOPB		L1502	146044311	CHOKE COIL	140uH
IC01	(Not supplied)	IC SDP2014AHNV205				< TRANSISTOR >	
IC002	672339201	IC TCR3DF33		Q401	655197001	TRANSISTOR	LTC614TUF8T106
IC402	672116801	IC BD3468FV-E2		Q402	655292201	TRANSISTOR	DTA014EUBTL
IC501	671933001	IC PST894A280UL		Q403	655197001	TRANSISTOR	LTC614TUF8T106
IC502	(Not supplied)	IC W25Q32JVSSIQ		Q404	655197001	TRANSISTOR	LTC614TUF8T106
IC503	672201801	IC R7S7200032CFP-A		Q405	655197001	TRANSISTOR	LTC614TUF8T106
IC504	671037601	IC 74LVC1G17GW-125		Q406	655197001	TRANSISTOR	LTC614TUF8T106
IC702	671769401	IC BU33TD3WG-TR		Q407	655197001	TRANSISTOR	LTC614TUF8T106
IC703	671635501	IC BU15TD3WG-TR		Q408	655197001	TRANSISTOR	LTC614TUF8T106
IC704	671635501	IC BU15TD3WG-TR		Q503	655293601	TRANSISTOR	DTC014EUBTL
IC705	671571212	IC TC94A99FG-003 (SYCH		Q506	655292201	TRANSISTOR	DTA014EUBTL
IC801	672260901	IC TC7WH126FK, RSNJ (CT (GS80: US, CND/M80)		Q507	655292201	TRANSISTOR	DTA014EUBTL
IC802	671037601	IC 74LVC1G17GW-125 (GS80: US, CND/M80)		Q801	655293601	TRANSISTOR	DTC014EUBTL
IC803	672349401	IC BD49101ARFS-ME2		Q802	655292201	TRANSISTOR	DTA014EUBTL
IC804	672152501	IC BD60HC0WEFJ-E2		Q803	655349801	FET	NTTFS5116PLTWG
IC805	672349701	IC BD00FC0EFP-MGE2		Q808	655292201	TRANSISTOR	DTA014EUBTL
IC1001	671769401	IC BU33TD3WG-TR		Q810	655349601	FET	RSD046P05TL
IC1002	(Not supplied)	BT MODULE (WB113C)		Q811	655349601	FET	RSD046P05TL
IC1003	670386301	IC NJM2781RB1		Q812	655294901	TRANSISTOR	DTC044EUBTL
IC1009	671832412	IC MFI337S3959		Q813	655293601	TRANSISTOR	DTC014EUBTL
IC1053	672036001	IC TPS2543RTER		Q814	655289201	TRANSISTOR	2SCR523UBTL
IC1054	672189901	IC BD12IC0WEFJ-SE2		Q1501	655289201	TRANSISTOR	2SCR523UBTL
IC1055	672114001	IC NJW4190R-A (TE2)		Q1502	655289201	TRANSISTOR	2SCR523UBTL
IC1056	671769401	IC BU33TD3WG-TR		Q1517	655293601	TRANSISTOR	DTC014EUBTL
IC1306	(Not supplied)	IC BD9876BEFJ-E2		Q1518	(Not supplied)	FET	NTMFS5C646NLT1G
IC1308	672355301	IC NJM2815GM1-51A		Q1519	(Not supplied)	FET	NTMFS5C646NLT1G
IC1310	671841602	IC uPD720114GA-YEU-AT-SAK		Q1520	872905384	FET	SSM3K09FU (T5LSONY1)
				Q1521	655293601	TRANSISTOR	DTC014EUBTL

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
		< RESISTOR >				R501	121894181	METAL CHIP	100	5%	1/16W
R1	121898911	METAL CHIP	1M	5%	1/16W	R502	121894181	METAL CHIP	100	5%	1/16W
R03	121899081	SHORT CHIP	0			R503	121894181	METAL CHIP	100	5%	1/16W
R4	121898911	METAL CHIP	1M	5%	1/16W	R504	121894181	METAL CHIP	100	5%	1/16W
R8	121894181	METAL CHIP	100	5%	1/16W	R505	121894181	METAL CHIP	100	5%	1/16W
R9	121686491	SHORT CHIP	0			R506	121894181	METAL CHIP	100	5%	1/16W
R10	121899081	SHORT CHIP	0			R507	121686491	SHORT CHIP	0		
R11	121899081	SHORT CHIP	0			R508	121895311	METAL CHIP	1K	5%	1/16W
R14	121894181	METAL CHIP	100	5%	1/16W	R509	121894181	METAL CHIP	100	5%	1/16W
R15	121896581	METAL CHIP	10K	5%	1/16W	R510	121895311	METAL CHIP	1K	5%	1/16W
R16	121896581	METAL CHIP	10K	5%	1/16W	R511	121895311	METAL CHIP	1K	5%	1/16W
R27	121894181	METAL CHIP	100	5%	1/16W	R512	121894181	METAL CHIP	100	5%	1/16W
R28	121686491	SHORT CHIP	0 (GS80: US, CND/M80)			R513	121894181	METAL CHIP	100	5%	1/16W
R30	121896581	METAL CHIP	10K	5%	1/16W	R514	121897781	METAL CHIP	100K	5%	1/16W
R31	121896581	METAL CHIP	10K	5%	1/16W	R515	121895481	METAL CHIP	1.2K	5%	1/16W
R102	121686491	SHORT CHIP	0			R516	121894181	METAL CHIP	100	5%	1/16W
R103	121895781	METAL CHIP	2.2K	5%	1/16W	R517	121894181	METAL CHIP	100	5%	1/16W
R105	121896781	METAL CHIP	15K	5%	1/16W	R518	125051911	METAL CHIP	10K	1%	1/16W
R107	121896781	METAL CHIP	15K	5%	1/16W	R519	121894181	METAL CHIP	100	5%	1/16W
R111	121686491	SHORT CHIP	0 (GS80: AEP, UK)			R520	121894181	METAL CHIP	100	5%	1/16W
R114	121895311	METAL CHIP	1K	5%	1/16W	R521	121897781	METAL CHIP	100K	5%	1/16W
R115	121895311	METAL CHIP	1K	5%	1/16W	R522	121894181	METAL CHIP	100	5%	1/16W
R304	121896581	METAL CHIP	10K	5%	1/16W	R523	121897781	METAL CHIP	100K	5%	1/16W
R305	121896581	METAL CHIP	10K	5%	1/16W	R524	121899081	SHORT CHIP	0		
R306	121896581	METAL CHIP	10K	5%	1/16W	R525	121894181	METAL CHIP	100	5%	1/16W
R307	121896581	METAL CHIP	10K	5%	1/16W	R526	121894181	METAL CHIP	100	5%	1/16W
* R316	125050611	METAL CHIP	3K	1%	1/16W	R528	121899081	SHORT CHIP	0		
* R318	125050611	METAL CHIP	3K	1%	1/16W	R529	121897781	METAL CHIP	100K	5%	1/16W
* R319	125050611	METAL CHIP	3K	1%	1/16W	R530	125051911	METAL CHIP	10K	1%	1/16W
* R321	125050611	METAL CHIP	3K	1%	1/16W	R531	121899081	SHORT CHIP	0		
R323	121894181	METAL CHIP	100	5%	1/16W	R532	121894181	METAL CHIP	100	5%	1/16W
R401	121893381	METAL CHIP	22	5%	1/16W	R533	121899081	SHORT CHIP	0		
R406	121686491	SHORT CHIP	0 (GS80: AEP, UK)			R534	121895781	METAL CHIP	2.2K	5%	1/16W
R407	121629691	SHORT CHIP	0			R535	121895781	METAL CHIP	2.2K	5%	1/16W
R408	121629691	SHORT CHIP	0			R538	121895781	METAL CHIP	2.2K	5%	1/16W
R409	121629691	SHORT CHIP	0			R539	121895781	METAL CHIP	2.2K	5%	1/16W
R410	121629691	SHORT CHIP	0			R540	121897181	METAL CHIP	33K	5%	1/16W
R424	121899081	SHORT CHIP	0			R541	121897781	METAL CHIP	100K	5%	1/16W
R425	121899081	SHORT CHIP	0			R542	121894181	METAL CHIP	100	5%	1/16W
R426	121899081	SHORT CHIP	0			R543	121894181	METAL CHIP	100	5%	1/16W
R427	121899081	SHORT CHIP	0			R544	121897181	METAL CHIP	33K	5%	1/16W
R428	121899081	SHORT CHIP	0			R545	121896581	METAL CHIP	10K	5%	1/16W
R429	121899081	SHORT CHIP	0			R546	121896581	METAL CHIP	10K	5%	1/16W
R430	121899081	SHORT CHIP	0			R547	121896581	METAL CHIP	10K	5%	1/16W
R431	121899081	SHORT CHIP	0			R548	121896581	METAL CHIP	10K	5%	1/16W
* R434	125047911	METAL CHIP	220	1%	1/16W	R549	121686491	SHORT CHIP	0		
R435	125053511	METAL CHIP	47K	1%	1/16W	R550	121899081	SHORT CHIP	0		
R436	125053511	METAL CHIP	47K	1%	1/16W	R551	121895311	METAL CHIP	1K	5%	1/16W
R437	121895311	METAL CHIP	1K	5%	1/16W	R552	121894911	METAL CHIP	470	5%	1/16W
* R438	125047911	METAL CHIP	220	1%	1/16W	R553	121894181	METAL CHIP	100	5%	1/16W
R439	125051911	METAL CHIP	10K	1%	1/16W	R554	121894181	METAL CHIP	100	5%	1/16W
R440	125051511	METAL CHIP	6.8K	1%	1/16W	R555	121894181	METAL CHIP	100	5%	1/16W
R441	121686491	SHORT CHIP	0			R556	121899081	SHORT CHIP	0		
R442	125051911	METAL CHIP	10K	1%	1/16W	R557	121894181	METAL CHIP	100	5%	1/16W
R443	125054711	METAL CHIP	150K	1%	1/16W	R558	121897781	METAL CHIP	100K	5%	1/16W
R445	125053511	METAL CHIP	47K	1%	1/16W	R562	125051911	METAL CHIP	10K	1%	1/16W
R446	125053511	METAL CHIP	47K	1%	1/16W	R563	125051911	METAL CHIP	10K	1%	1/16W
R447	125053511	METAL CHIP	47K	1%	1/16W	R565	121894911	METAL CHIP	470	5%	1/16W
R448	125053511	METAL CHIP	47K	1%	1/16W	R567	121899081	SHORT CHIP	0		
R500	121895481	METAL CHIP	1.2K	5%	1/16W	R568	121899081	SHORT CHIP	0		

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Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R571	121899081	SHORT CHIP	0				R652	121894181	METAL CHIP	100	5%		1/16W
R572	121897781	METAL CHIP	100K	5%	1/16W		R653	121895781	METAL CHIP	2.2K	5%		1/16W
R573	121897781	METAL CHIP	100K	5%	1/16W		R654	121899081	SHORT CHIP	0			
R574	121895781	METAL CHIP	2.2K	5%	1/16W		R656	121894181	METAL CHIP	100	5%		1/16W
R576	121897781	METAL CHIP	100K	5%	1/16W		R661	121897781	METAL CHIP	100K	5%		1/16W
R578	121894181	METAL CHIP	100	5%	1/16W		R662	121896581	METAL CHIP	10K	5%		1/16W
R579	125055311	METAL CHIP	270K	1%	1/16W		R665	121894181	METAL CHIP	100	5%		1/16W
R582	121897781	METAL CHIP	100K	5%	1/16W		R666	121629691	SHORT CHIP	0			
* R583	125051311	METAL CHIP	5.6K	1%	1/16W		R682	121897781	METAL CHIP	100K	5%		1/16W
R585	121897781	METAL CHIP	100K	5%	1/16W		R683	121899081	SHORT CHIP	0			
R586	121897781	METAL CHIP	100K	5%	1/16W		R687	121897781	METAL CHIP	100K	5%		1/16W
R592	121897781	METAL CHIP	100K	5%	1/16W		R688	121897781	METAL CHIP	100K	5%		1/16W
R595	121897781	METAL CHIP	100K	5%	1/16W		R689	121897781	METAL CHIP	100K	5%		1/16W
R597	121898181	METAL CHIP	220K	5%	1/16W		* R690	125047911	METAL CHIP	220	1%		1/16W
R598	121897781	METAL CHIP	100K	5%	1/16W		R691	121894181	METAL CHIP	100	5%		1/16W
R599	121894181	METAL CHIP	100	5%	1/16W		R693	121629691	SHORT CHIP	0			
R600	121894181	METAL CHIP	100	5%	1/16W		R701	121686491	SHORT CHIP	0			
R601	121894181	METAL CHIP	100	5%	1/16W		R702	121899081	SHORT CHIP	0			
R602	121894181	METAL CHIP	100	5%	1/16W		R704	121686491	SHORT CHIP	0			
R603	121894181	METAL CHIP	100	5%	1/16W		R705	121899081	SHORT CHIP	0			
R604	121894181	METAL CHIP	100	5%	1/16W		R707	121686491	SHORT CHIP	0			
R605	121897781	METAL CHIP	100K	5%	1/16W		R708	121686491	SHORT CHIP	0			
R606	121897781	METAL CHIP	100K	5%	1/16W		R711	121686491	SHORT CHIP	0			
R608	121899081	SHORT CHIP	0				R718	121894181	METAL CHIP	100	5%		1/16W
R609	121894181	METAL CHIP	100	5%	1/16W		R719	121894181	METAL CHIP	100	5%		1/16W
R610	121894181	METAL CHIP	100	5%	1/16W		R720	121899081	SHORT CHIP	0			
R611	121894181	METAL CHIP	100	5%	1/16W		R721	121894181	METAL CHIP	100	5%		1/16W
R612	121894181	METAL CHIP	100	5%	1/16W		R722	121894181	METAL CHIP	100	5%		1/16W
R614	121897781	METAL CHIP	100K	5%	1/16W		R723	121894181	METAL CHIP	100	5%		1/16W
R615	121897781	METAL CHIP	100K	5%	1/16W		R724	121894711	METAL CHIP	330	5%		1/16W
R616	121899081	SHORT CHIP	0				R725	121894711	METAL CHIP	330	5%		1/16W
R617	121897781	METAL CHIP	100K	5%	1/16W		R727	121899081	SHORT CHIP	0			
R618	121894181	METAL CHIP	100	5%	1/16W		R729	121894711	METAL CHIP	330	5%		1/16W
R621	121895311	METAL CHIP	1K	5%	1/16W		R732	121894711	METAL CHIP	330	5%		1/16W
R622	121894181	METAL CHIP	100	5%	1/16W		R733	121899081	SHORT CHIP	0			
R623	121895311	METAL CHIP	1K	5%	1/16W		R734	121899081	SHORT CHIP	0			
R624	121894181	METAL CHIP	100	5%	1/16W		R735	121894711	METAL CHIP	330	5%		1/16W
R625	121894181	METAL CHIP	100	5%	1/16W		R737	121899081	SHORT CHIP	0			
R626	121897781	METAL CHIP	100K	5%	1/16W		* R738	125050311	METAL CHIP	2.2K	1%		1/16W
R627	121894181	METAL CHIP	100	5%	1/16W		R739	121898911	METAL CHIP	1M	5%		1/16W
R628	121895311	METAL CHIP	1K	5%	1/16W		R740	121894181	METAL CHIP	100	5%		1/16W
R629	121894181	METAL CHIP	100	5%	1/16W		R741	121895881	METAL CHIP	2.7K	5%		1/16W
R630	121894181	METAL CHIP	100	5%	1/16W		R742	121895881	METAL CHIP	2.7K	5%		1/16W
R631	121896581	METAL CHIP	10K	5%	1/16W		R743	121896581	METAL CHIP	10K	5%		1/16W
R632	121896581	METAL CHIP	10K	5%	1/16W		R744	121896581	METAL CHIP	10K	5%		1/16W
R633	121896581	METAL CHIP	10K	5%	1/16W		R745	121899081	SHORT CHIP	0			
R634	121894181	METAL CHIP	100	5%	1/16W		R747	121897781	METAL CHIP	100K	5%		1/16W
R635	121897781	METAL CHIP	100K	5%	1/16W		R748	121898381	METAL CHIP	330K	5%		1/16W
R637	121897781	METAL CHIP	100K	5%	1/16W		R749	121897781	METAL CHIP	100K	5%		1/16W
R638	121894181	METAL CHIP	100	5%	1/16W		R750	121896781	METAL CHIP	15K	5%		1/16W
R639	121894181	METAL CHIP	100	5%	1/16W		R751	121897381	METAL CHIP	47K	5%		1/16W
R640	121897781	METAL CHIP	100K	5%	1/16W		R752	121894181	METAL CHIP	100	5%		1/16W
R642	121894181	METAL CHIP	100	5%	1/16W		R753	121894181	METAL CHIP	100	5%		1/16W
R643	121897781	METAL CHIP	100K	5%	1/16W		R754	121894181	METAL CHIP	100	5%		1/16W
R644	121894181	METAL CHIP	100	5%	1/16W		R755	121894181	METAL CHIP	100	5%		1/16W
R646	121896581	METAL CHIP	10K	5%	1/16W		R756	121894181	METAL CHIP	100	5%		1/16W
R647	121897781	METAL CHIP	100K	5%	1/16W		R757	121894181	METAL CHIP	100	5%		1/16W
R648	121897781	METAL CHIP	100K	5%	1/16W		R758	121897781	METAL CHIP	100K	5%		1/16W
R649	121894181	METAL CHIP	100	5%	1/16W		R760	121897781	METAL CHIP	100K	5%		1/16W
R650	121894181	METAL CHIP	100	5%	1/16W		R761	121897781	METAL CHIP	100K	5%		1/16W

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R762	121897781	METAL CHIP	100K	5%	1/16W	R895	121894181	METAL CHIP	100	5%	1/16W
R763	121897781	METAL CHIP	100K	5%	1/16W	R896	121894181	METAL CHIP	100	5%	1/16W
R767	121686491	SHORT CHIP	0			R897	121894181	METAL CHIP	100	5%	1/16W
R803	125052511	METAL CHIP	18K	1%	1/16W	R1001	121629691	SHORT CHIP	0		
* R805	125054311	METAL CHIP	100K	1%	1/16W	R1002	121629691	SHORT CHIP	0		
R806	121897781	METAL CHIP	100K	5%	1/16W	R1003	121897781	METAL CHIP	100K	5%	1/16W
* R807	125052911	METAL CHIP	27K	1%	1/16W	R1004	121894181	METAL CHIP	100	5%	1/16W
R808	125051911	METAL CHIP	10K	1%	1/16W	R1005	121894181	METAL CHIP	100	5%	1/16W
R809	125051911	METAL CHIP	10K	1%	1/16W	R1006	121894181	METAL CHIP	100	5%	1/16W
* R810	125052311	METAL CHIP	15K	1%	1/16W	R1007	121899081	SHORT CHIP	0		
R811	121893381	METAL CHIP	22	5%	1/16W	R1010	121899081	SHORT CHIP	0		
R812	121894181	METAL CHIP	100	5%	1/16W	R1011	121899081	SHORT CHIP	0		
R814	121896681	METAL CHIP	12K	5%	1/16W	R1012	121686491	SHORT CHIP	0		
					(GS80: US, CND/M80)	R1013	121899081	SHORT CHIP	0		
R815	125732111	METAL CHIP	0.039	1%	1/2W	R1014	121894181	METAL CHIP	100	5%	1/16W
R816	125732111	METAL CHIP	0.039	1%	1/2W	R1015	121893381	METAL CHIP	22	5%	1/16W
R817	121686491	SHORT CHIP	0		(GS80: US, CND/M80)	R1016	121894181	METAL CHIP	100	5%	1/16W
R818	121896681	METAL CHIP	12K	5%	1/16W	R1017	121893381	METAL CHIP	22	5%	1/16W
					(GS80: US, CND/M80)	R1018	121894181	METAL CHIP	100	5%	1/16W
R819	121897781	METAL CHIP	100K	5%	1/16W	R1019	121894181	METAL CHIP	100	5%	1/16W
* R822	125048011	METAL CHIP	240	1%	1/16W	R1020	121894181	METAL CHIP	100	5%	1/16W
R823	125051211	METAL CHIP	5.1K	1%	1/16W	R1021	121894181	METAL CHIP	100	5%	1/16W
R825	125053111	METAL CHIP	33K	1%	1/16W	R1023	121894181	METAL CHIP	100	5%	1/16W
R826	125729611	METAL CHIP	300K	1%	1/20W	R1024	121897781	METAL CHIP	100K	5%	1/16W
R827	125055711	METAL CHIP	390K	1%	1/16W	R1025	121894181	METAL CHIP	100	5%	1/16W
* R828	125054111	METAL CHIP	82K	1%	1/16W	R1028	121899081	SHORT CHIP	0		
R830	125053311	METAL CHIP	39K	1%	1/16W	R1029	121899081	SHORT CHIP	0		
R831	121897781	METAL CHIP	100K	5%	1/16W	R1030	121894181	METAL CHIP	100	5%	1/16W
					(GS80: US, CND/M80)	R1031	121895781	METAL CHIP	2.2K	5%	1/16W
R833	125051911	METAL CHIP	10K	1%	1/16W	R1032	121896581	METAL CHIP	10K	5%	1/16W
* R835	125054011	METAL CHIP	75K	1%	1/16W	R1033	121896781	METAL CHIP	15K	5%	1/16W
R837	121897181	METAL CHIP	33K	5%	1/16W	R1035	121899081	SHORT CHIP	0		
* R838	125054511	METAL CHIP	120K	1%	1/16W	R1036	121895181	METAL CHIP	680	5%	1/16W
* R839	125054011	METAL CHIP	75K	1%	1/16W	R1037	121893781	METAL CHIP	47	5%	1/16W
* R840	125054511	METAL CHIP	120K	1%	1/16W	R1040	125052511	METAL CHIP	18K	1%	1/16W
R841	121897781	METAL CHIP	100K	5%	1/16W	R1053	121899081	SHORT CHIP	0		
					(GS80: US, CND/M80)	R1055	121686491	SHORT CHIP	0		
R842	121899081	SHORT CHIP	0			R1056	121686491	SHORT CHIP	0		
R845	121899081	SHORT CHIP	0			R1070	121686491	SHORT CHIP	0		
R846	125049511	METAL CHIP	1K	1%	1/16W	R1117	121899081	SHORT CHIP	0		
R848	121893381	METAL CHIP	22	5%	1/16W	R1303	121894181	METAL CHIP	100	5%	1/16W
					(GS80: US, CND/M80)	R1350	121686491	SHORT CHIP	0		
R849	125053311	METAL CHIP	39K	1%	1/16W	* R1361	125051311	METAL CHIP	5.6K	1%	1/16W
					(GS80: US, CND/M80)	R1372	121686491	SHORT CHIP	0		
R850	121897581	METAL CHIP	68K	5%	1/16W	R1374	121897781	METAL CHIP	100K	5%	1/16W
R851	121686491	SHORT CHIP	0			R1376	121629691	SHORT CHIP	0		
R852	121899081	SHORT CHIP	0			R1377	121896581	METAL CHIP	10K	5%	1/16W
R865	120894881	METAL CHIP	360K	0.5%	1/16W	R1378	121896581	METAL CHIP	10K	5%	1/16W
R870	125049511	METAL CHIP	1K	1%	1/16W	R1379	125053311	METAL CHIP	39K	1%	1/16W
R871	124847311	METAL CHIP	0.068	1%	1/2W	R1380	121896581	METAL CHIP	10K	5%	1/16W
R872	124545311	METAL CHIP	0.047	1%	1/2W	R1381	121896581	METAL CHIP	10K	5%	1/16W
* R873	125054511	METAL CHIP	120K	1%	1/16W	R1384	121897781	METAL CHIP	100K	5%	1/16W
* R874	125052711	METAL CHIP	22K	1%	1/16W	R1386	121894181	METAL CHIP	100	5%	1/16W
R888	121686491	SHORT CHIP	0			* R1390	125047911	METAL CHIP	220	1%	1/16W
R890	121686491	SHORT CHIP	0			* R1393	125047911	METAL CHIP	220	1%	1/16W
R892	121686491	SHORT CHIP	0			* R1394	125047911	METAL CHIP	220	1%	1/16W
R893	121895311	METAL CHIP	1K	5%	1/16W	R1398	121897781	METAL CHIP	100K	5%	1/16W
					(GS80: US, CND/M80)	R1400	121629691	SHORT CHIP	0		
R894	121895311	METAL CHIP	1K	5%	1/16W						
					(GS80: US, CND/M80)						

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1401	121686491	SHORT CHIP	0			R1586	124838211	RES-CHIP	5.6	1%	1/2W
R1402	121896581	METAL CHIP	10K	5%	1/16W	R1587	124838211	RES-CHIP	5.6	1%	1/2W
R1413	125051911	METAL CHIP	10K	1%	1/16W	R1588	124838211	RES-CHIP	5.6	1%	1/2W
R1414	125051911	METAL CHIP	10K	1%	1/16W	R1589	124838211	RES-CHIP	5.6	1%	1/2W
R1417	121629691	SHORT CHIP	0			R1590	124569211	METAL CHIP	0.01	1%	2W
R1418	121629691	SHORT CHIP	0			R1594	125060811	METAL CHIP	470	1%	1/10W
R1422	121899081	SHORT CHIP	0			R1599	121897181	METAL CHIP	33K	5%	1/16W
R1423	121899081	SHORT CHIP	0			R1600	121686491	SHORT CHIP	0		
R1426	121686491	SHORT CHIP	0 (GS80: US, CND/M80)			* R1603	125051111	METAL CHIP	4.7K	1%	1/16W
R1429	121899081	SHORT CHIP	0			* R1604	125050711	METAL CHIP	3.3K	1%	1/16W
R1433	125053811	METAL CHIP	62K	1%	1/16W	R1605	125060811	METAL CHIP	470	1%	1/10W
R1439	121894711	METAL CHIP	330	5%	1/16W	R1606	121686491	SHORT CHIP	0		
R1443	121629691	SHORT CHIP	0			R1608	125053111	METAL CHIP	33K	1%	1/16W
R1447	125053011	METAL CHIP	30K	1%	1/16W	* R1609	125050311	METAL CHIP	2.2K	1%	1/16W
R1448	125055511	METAL CHIP	330K	1%	1/16W	R1610	(Not supplied)	METAL CHIP	180	1%	1/10W
R1463	125051711	METAL CHIP	8.2K	1%	1/16W	R1612	121686491	SHORT CHIP	0		
R1464	125053511	METAL CHIP	47K	1%	1/16W	R1613	121891191	METAL CHIP	470K	0.5%	1/10W
R1465	125052111	METAL CHIP	12K	1%	1/16W	* R1614	125054311	METAL CHIP	100K	1%	1/16W
R1466	121895311	METAL CHIP	1K	5%	1/16W	R1615	121897981	METAL CHIP	150K	5%	1/16W
R1467	121895311	METAL CHIP	1K	5%	1/16W	R1617	121686491	SHORT CHIP	0		
R1468	121896181	METAL CHIP	4.7K	5%	1/16W	R1618	125053111	METAL CHIP	33K	1%	1/16W
R1472	121896581	METAL CHIP	10K	5%	1/16W	* R1625	125051311	METAL CHIP	5.6K	1%	1/16W
R1473	121894181	METAL CHIP	100	5%	1/16W	R1626	121686491	SHORT CHIP	0		
R1478	121899081	SHORT CHIP	0			R1627	121897781	METAL CHIP	100K	5%	1/16W
R1480	121896581	METAL CHIP	10K	5%	1/16W	R1628	(Not supplied)	METAL CHIP	2K	1%	1/16W
R1481	121899081	SHORT CHIP	0			R1629	121682191	METAL CHIP	1K	5%	1/10W
R1482	124618481	METAL CHIP	2.43K	0.5%	1/16W	R1630	121894711	METAL CHIP	330	5%	1/16W
R1484	121895311	METAL CHIP	1K	5%	1/16W	R1657	121686491	SHORT CHIP	0		
R1491	121898911	METAL CHIP	1M	5%	1/16W	R1658	121629691	SHORT CHIP	0		
R1496	121897381	METAL CHIP	47K	5%	1/16W	R1659	121629691	SHORT CHIP	0		
R1499	125051711	METAL CHIP	8.2K	1%	1/16W	R1666	121686491	SHORT CHIP	0		
R1501	121607391	METAL CHIP	10K	5%	1/8W	R1668	121899081	SHORT CHIP	0		
R1502	121897381	METAL CHIP	47K	5%	1/16W	R1670	121895311	METAL CHIP	1K	5%	1/16W
R1503	121896181	METAL CHIP	4.7K	5%	1/16W	R1671	121895311	METAL CHIP	1K	5%	1/16W
R1504	121607391	METAL CHIP	10K	5%	1/8W	R1674	121686491	SHORT CHIP	0 (GS80: AEP, UK)		
R1505	121897381	METAL CHIP	47K	5%	1/16W	R1677	121686491	SHORT CHIP	0 (GS80: AEP, UK)		
R1506	121621491	METAL CHIP	4.7K	5%	1/4W	R1678	121899081	SHORT CHIP	0 (GS80: US, CND/M80)		
R1508	121897781	METAL CHIP	100K	5%	1/16W			< SWITCH >			
R1509	121896981	METAL CHIP	22K	5%	1/16W						
R1510	121899081	SHORT CHIP	0			S002	157191421	SWITCH, KEY BOARD			
R1511	121899081	SHORT CHIP	0					< DIODE >			
R1512	121897781	METAL CHIP	100K	5%	1/16W						
R1550	121686491	SHORT CHIP	0			VDR1	650404601	DIODE RSB12ZT2L			
R1552	121895311	METAL CHIP	1K	5%	1/16W	VDR2	650404601	DIODE RSB12ZT2L			
R1553	121895311	METAL CHIP	1K	5%	1/16W			< VIBRATOR >			
R1554	121895311	METAL CHIP	1K	5%	1/16W						
R1555	121895311	METAL CHIP	1K	5%	1/16W	X1	181482421	QUARTZ CRYSTAL UNIT (12 MHz)			
R1556	121894711	METAL CHIP	330	5%	1/16W	X501	181448511	QUARTZ CRYSTAL UNIT (48 MHz)			
R1557	121897381	METAL CHIP	47K	5%	1/16W	X502	181476711	QUARTZ CRYSTAL UNITS (13.333 MHz)			
R1558	121686491	SHORT CHIP	0			X503	(Not supplied)	QUARTZ CRYSTAL UNIT (32.768 kHz)			
R1559	121629691	SHORT CHIP	0			X701	181477811	QUARTZ CRYSTAL UNITS (16.9344 MHz)			
R1560	121629691	SHORT CHIP	0			X1302	181436711	QUARTZ CRYSTAL UNITS (30 MHz)			
R1571	121686491	SHORT CHIP	0			*****					
R1572	121686491	SHORT CHIP	0								
R1576	121686491	SHORT CHIP	0								
R1581	121619891	METAL CHIP	1K	5%	1/4W						
R1582	121619891	METAL CHIP	1K	5%	1/4W						
R1583	125061611	METAL CHIP	1K	1%	1/10W						
R1584	121895311	METAL CHIP	1K	5%	1/16W						
R1585	121621491	METAL CHIP	4.7K	5%	1/4W						

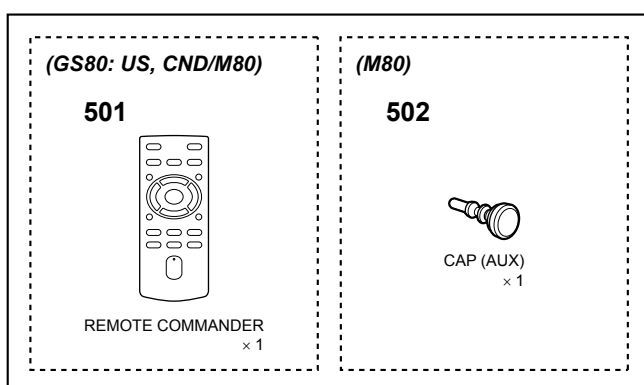
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DSX-GS80/M80
Sony CONFIDENTIAL
 For Authorized Servicer

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		MISCELLANEOUS *****	
BT1	175494511	BT, ANTENNA	
FP1	A5012216A	PANEL FRONT (SV) ASSY (GS80: US, CND)	
FP1	A5012217A	PANEL FRONT (SV) ASSY (GS80: AEP, UK)	
FP1	A5012218A	PANEL FRONT (SV) ASSY (M80)	
FU1	152346111	MINI FUSE (BLADE TYPE) (15 A/32 V)	
PW1	184603312	CONNECTION CABLE (ISO) (Power supply leads) (GS80: AEP, UK)	
PW1	184697912	CONNECTION CABLE, AUTOMOBILE (Power supply leads) (GS80: US, CND/M80)	
USB2	100477411	CONNECTION CABLE (AUTOMOBILE) (USB2 port) (GS80)	
USB2	100477421	CONNECTION CABLE (AUTOMOBILE) (USB2 port with CAP) (M80)	

SECTION 8
ACCESSORIES

Ref. No.	Part No.	Description	Remark
	500664011	OPERATING INSTRUCTION (ENGLISH, FRENCH) (GS80: US, CND)	
	500664021	OPERATING INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH) (GS80: AEP, UK)	
	500664031	OPERATING INSTRUCTION (ITALIAN, PORTUGUESE, DANISH, FINNISH, NORWEGIAN, POLISH) (GS80: AEP, UK)	
	500664041	OPERATING INSTRUCTION (GREEK, CZECH, HUNGARIAN, BULGARIAN, SLOVAK, ROMANIAN) (GS80: AEP, UK)	
	500664111	OPERATING INSTRUCTION (ENGLISH, FRENCH) (M80)	
501	148981043	REMOTE COMMANDER (RM-X231) (GS80: US, CND)	
501	149333911	REMOTE COMMANDER (RM-X232) (M80)	
502	268351601	CAP (AUX) (M80)	



PARTS FOR INSTALLATION AND CONNECTIONS

551	X25839622	FRAME ASSY, FITTING (Mounting sleeve)
552	473642701	COLLAR (Trim ring)
553	427600303	KEY (FRAME) (Release key) (1 piece)
554	184603312	CONNECTION CABLE (ISO) (Power supply leads) (GS80: AEP, UK)
554	184697912	CONNECTION CABLE, AUTOMOBILE (Power supply leads) (GS80: US, CND/M80)
555	393432521	SCREW, +K (5X8) TAPPING (Mounting screw) (1 piece) (GS80: US, CND/M80)
556	X25843601	SCREW ASSY (BS), FITTING (GS80: AEP, UK)
557	334941011	BUSHING (GS80: AEP, UK)
558	185209721	MICROPHONE UNIT (Including Flat-mount base, Double-sided tape)
559	288950801	PLATE (FITTING) (Mounting plate) (M80)
560	768216001	SCREW +P 4X6 (Mounting screw) (M80)
561	391591701	SCREW, +T 4X12 (Mounting screw) (M80)

