

MEX-N5100BE/N5100BT/ N5150BT

SERVICE MANUAL

Ver. 1.0 2014.12



Photo: MEX-N5100BT

US Model
Canadian Model
AEP Model
UK Model
MEX-N5100BT
E Model
Australian Model
MEX-N5150BT
Russian Model
MEX-N5100BE

The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	MEX-N5000BE/N5000BT/ N5050BT/N5070BT
Mechanism Type	MG-101CF-188
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

(US and Canadian models only)
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
CEA2006 Standard
Power Output: 17 Watts RMS x 4 at 4
Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Tuner section (US and Canadian models)

FM
Tuning range: 87.5 – 107.9 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
FM CCIR: -1,956.5 to -487.3 kHz and
+500.0 to +2,095.4 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 73 dB
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM
Tuning range: 530 – 1,710 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Sensitivity: 26 µV

(AEP and UK models)
FM
Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
FM CCIR: -1,956.5 to -487.3 kHz and
+500.0 to +2,095.4 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 73 dB
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

MW/LW
Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Sensitivity: MW: 26 µV, LW: 50 µV

(Russian model)
FM
Tuning range:
FM1/FM2: 87.5 – 108.0 MHz
(at 50 kHz step)
FM3: 65 – 74 MHz (at 30kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
FM CCIR: -1,956.5 to -487.3 kHz and
+500.0 to +2,095.4 kHz
FM OIRT: -1,815.6 to -943.7 kHz and
+996.6 to +1,776.6 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 73 dB
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

MW/LW
Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Sensitivity: MW: 26 µV, LW: 50 µV

(E, Mexican, Indian and Australian models)
FM
Tuning range:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 108.0 MHz (at 100 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)

FM tuning step:
50 kHz/100 kHz/200 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
FM CCIR: -1,956.5 to -487.3 kHz and
+500.0 to +2,095.4 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 73 dB
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

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

(Saudi Arabia model)
FM
Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
FM CCIR: -1,956.5 to -487.3 kHz and
+500.0 to +2,095.4 kHz

Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 73 dB
Separation: 50 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

MW
Tuning range: 531 – 1,602 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Sensitivity: 26 µV

SW
Tuning range:
SW1: 2,940 – 7,735 kHz
SW2: 9,500 – 18,135 kHz
(except for 10,140 – 11,575 kHz)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency:
-2,463.8 to -1,710.1 kHz and
+1,710.0 to +2,418.4 kHz
Sensitivity: 26 µV

– Continued on next page –

Bluetooth® AUDIO SYSTEM

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Sony Corporation

Published by Sony Techno Create Corporation

SONY®

MEX-N5100BE/N5100BT/N5150BT

CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit
The maximum number of: (CD-R/CD-RW only)
— folders (albums): 150 (including root folder)
— files (tracks) and folders: 300 (may less than 300 if folder/file names contain many characters)
— displayable characters for a folder/file name: 32 (Joliet)/64 (Romeo)
Corresponding codec: MP3 (.mp3), WMA (.wma) and AAC (.m4a)

USB Player section

Interface: USB (High-speed)
Maximum current: 1 A
The maximum number of recognizable tracks: 10,000
Corresponding codec: MP3 (.mp3), WMA (.wma), WAV (.wav), AAC (.m4a), AAC (.mp4) and FLAC (.flac)

Wireless Communication

Communication System:
BLUETOOTH Standard version 3.0
Output:
BLUETOOTH Standard Power Class 2 (Max. +4 dBm)
Maximum communication range:
Line of sight approx. 10 m (33 ft)*1
Frequency band:
2.4 GHz band (2,4000 – 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)
MAP (Message Access Profile)
HID (Human Interface Device Profile)
Corresponding codec:
SBC (.sbc) and 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: 4 – 8 ohms
Maximum power output: 55 W × 4 (at 4 ohms)

General

Outputs:
Audio outputs terminal:
front, rear, sub
Power antenna (aerial)/Power amplifier control terminal (REM OUT)
Inputs:
SiriusXM input terminal (US and Canadian models only)
Remote controller input terminal
Antenna (aerial) input terminal
MIC input terminal
AUX input jack (stereo mini jack)
USB port
Power requirements: 12 V DC car battery (negative ground (earth))
Rated current consumption: 10 A
Dimensions:
Approx. 178 mm × 50 mm × 177 mm (7 1/8 in × 2 in × 7 in) (w/h/d)
Mounting dimensions:
Approx. 182 mm × 53 mm × 160 mm (7 1/4 in × 2 1/8 in × 6 5/16 in) (w/h/d)
Mass: Approx. 1.2 kg (2 lb 11 oz)
Package contents:
Remote commander (1): RM-X231 (Except AEP, UK and Australian models only)
Microphone (1)
Parts for installation and connections (1 set)
Design and specifications are subject to change without notice.

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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.

FLEXIBLE CIRCUIT BOARD REPAIRING

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

- US and Canadian models:

CAUTION

The use of optical instruments with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MEX-N5100BE/N5100BT/N5150BT

SECTION 1

SERVICING NOTES

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Accessories are given in the last of the electrical parts list.

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

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

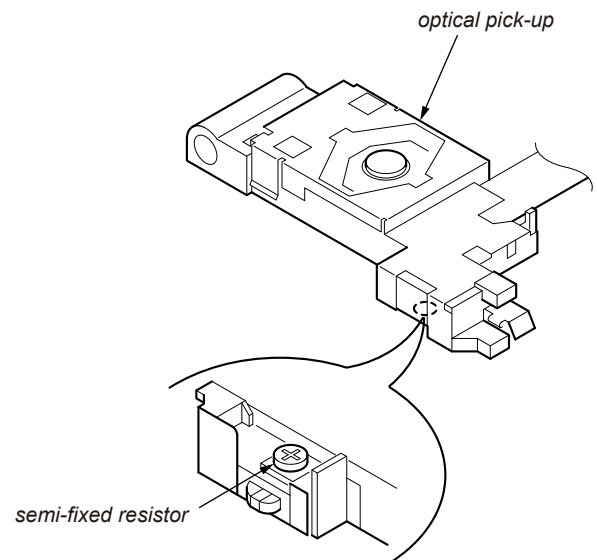
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right above when checking it for adjustment. It is feared that you will lose your sight.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



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)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

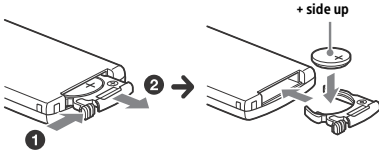
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (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 OF THE REMOTE COMMANDER (Except AEP, UK and Australian models only)

Under normal conditions, the battery will last approximately 1 year. (The service life may be shorter, depending on the conditions of use.)
When the battery becomes weak, the range of the remote commander becomes shorter.

CAUTION

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



Notes on the lithium battery

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to ensure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

DESTINATION ABBREVIATIONS

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

- Abbreviations
 - AUS : Australian model
 - CND : Canadian model
 - EA : Saudi Arabia model
 - IND : Indian model
 - MX : Mexican model
 - RU : Russian model

DESTINATION SETTING METHOD

When the complete MAIN board or IC502 on the MAIN board is replaced, the destination setting is necessary.

1. Destination Setting

Set destination according to the procedure below.

1-1. Setting the Destination Code

1. In the state of source off (the clock is displayed), enter the test mode by pressing the buttons in order of the [↺ 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
2. In the state in which the software main version is displayed on the liquid crystal display (refer to following figure), enter the destination setting mode by pressing the buttons in order of the [▶▶▶ SEEK+] → [SEEK- ◀◀◀] → [PUSH ENTER/VOICE].
(Displayed characters/values in the following figure are example)

Software main version



3. Input the alphanumeric character of 12 digits of "F XXXXXX" displayed on the liquid crystal display, and execute the destination setting.

Note: Refer to following "1-3. Entering the Destination Code" for operation method.

4. The resetting operation is executed by pressing the [OFF SRC] button for 1 second after the setting ends, and the unit returns to the normal condition.

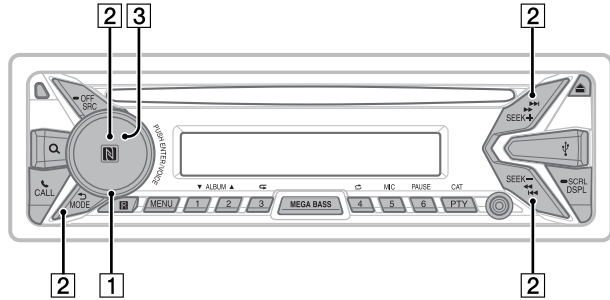
1-2. Display in Destination Setting Mode

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



1-3. Entering the Destination Code

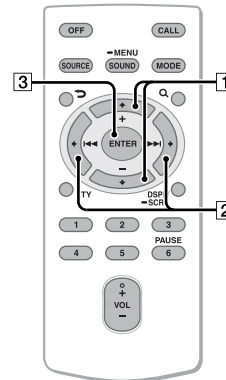
• Method of operation by main unit



1. Rotate the control dial, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [PUSH ENTER/VOICE] or [▶▶▶ SEEK+] button.
The digit returns by pressing the [↺ MODE] or [SEEK- ◀◀◀] button.
3. The setting is completed by pressing the [PUSH ENTER/VOICE] button, and the initialization operation is done.

• Method of operation by remote commander (Except AEP, UK and Australian models only)

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



1. Press the [▲] or [▼] button, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [▶] button.
The digit returns by pressing the [◀] button.
3. The setting is completed by pressing the [ENTER] button, and the initialization operation is done.

– Continued on next page –

1-4. Destination Code

Model	Destination	OP5	OP4	OP3	OP2	OP1	OP0
MEX-N5100BE	Russian	0	3	8	0	5	7
MEX-N5100BT	US, Canadian	4	2	8	2	4	2
	AEP, UK	0	2	8	0	4	1
MEX-N5150BT	E, Mexican	0	6	B	0	6	0
	Saudi Arabia	0	6	A	0	6	4
	Indian	0	6	9	0	6	0
	Australian	4	6	8	0	6	0

2. Confirmation After Destination Setting

Execute the following operation after completing the destination setting, and confirm a correct destination was set.

Destination setting checking method:

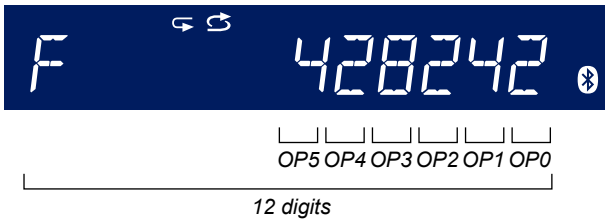
- In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [S 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
- In the state in which the software main version is displayed on the liquid crystal display (refer to following figure), enter the destination setting value display mode by pressing the [SCRL DSPL] button twice.
(Displayed characters/values in the following figure are example)

Software main version



- Confirm the alphanumeric character of 12 digits in liquid crystal display is a value correctly input.
(Displayed characters/values in the following figure are example)

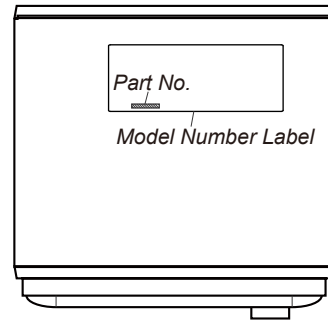
Destination code



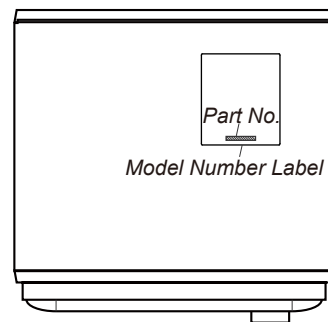
- The resetting operation is executed by pressing the [OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.

MODEL IDENTIFICATION

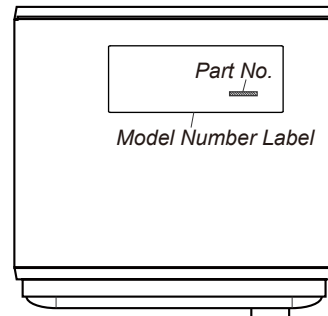
– Bottom view –
(MEX-N5100BE/N5100BT)



– Bottom view –
(MEX-N5150BT: E, Mexican, Indian and Australian models)



– Bottom view –
(MEX-N5150BT: Saudi Arabia model)



Part No.	Model
4-548-075-0□	MEX-N5100BT: US and Canadian models (UC)
4-548-076-0□	MEX-N5100BT: AEP and UK models (EUR)
4-548-077-0□	MEX-N5100BE: Russian model (RU2)
4-548-078-0□	MEX-N5150BT: E model (E)
4-548-079-0□	MEX-N5150BT: Australian model (ET4)
4-548-080-0□	MEX-N5150BT: Mexican model (MX3)
4-548-081-0□	MEX-N5150BT: Indian model (IN)
4-548-082-0□	MEX-N5150BT: Saudi Arabia model (EA)

TEST DISCS

Use following TEST DISC (for CD) when this unit confirms the operation and checks it.

Part No.	Description
3-702-101-01	DISC (YEDS-18), TEST
4-225-203-01	DISC (PATD-012), TEST

NOTE OF PERFORMING THE OPERATION CHECK

When performing the operation check in the state that is removed the CD mechanism deck from the main unit, it is necessary to use a long flexible flat cable.

When performing the operation check, use following flexible flat cable.

Part No.	Description
1-846-819-31	CABLE FLEXIBLE FLAT (27 CORE) (Length: 150 mm)

NOTE OF REPLACING THE KEY BOARD

When the KEY board is defective, replace the FRONT PANEL (SV) ASSY (Ref. No. FP1).

NOTE OF REPLACING THE IC001, IC002, IC804, IC805, IC1002 AND IC1009 ON THE MAIN BOARD

IC001, IC002, IC804, IC805, IC1002 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS

After completing the repairs of this unit, follow the procedure below to check normal operation of the NFC.

Note: After checking of NFC operation, be sure to delete the pairing information before returning this unit to the customer.

Connecting with a Smartphone by One touch (NFC)

By touching the control dial on the unit with an NFC* compatible smartphone, the unit is paired and connected with the smartphone automatically.

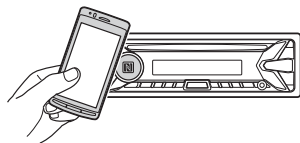
* NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.


For a smartphone with Android OS 4.0 or lower installed, downloading the app "NFC Easy Connect" available at Google Play™ is required. The app may not be downloadable in some countries/regions.

1 Activate the NFC function on the smartphone.

For details, refer to the operating instructions supplied with the smartphone.

2 Touch the N-Mark part of the unit with the N-Mark part of the smartphone.



Make sure that  lights up on the display of the unit.

To disconnect by One touch

Touch the N-Mark part of the unit with the N-Mark part of the smartphone again.

Notes

- When making the connection, handle the smartphone carefully to prevent scratches.
- One touch connection is not possible when the unit is already connected to another NFC compatible device. In this case, disconnect the other device, and make connection with the smartphone again.

IMPORTANT NOTE OF "INITIALIZING"


The purpose of "Bluetooth Initialize" is to initialize the Bluetooth connection history (HF/Audio Streaming). (To delete the device information for the devices that you connected to when searching, etc.)

When complete MAIN board is replaced, it is necessary to initialize this unit.

Refer to the following, initialize this unit.

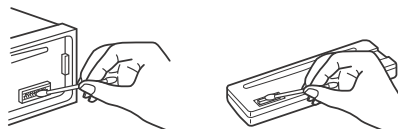
Note: Phonebook data and dialed/received call history can be deleted by executing "Bluetooth Initialize".

Procedure:

1. In the state of source off (the clock is displayed), press the [MENU] button.
2. Rotate the control dial, and select the "SET BT".
3. Press the [PUSH ENTER/VOICE] button.
4. Rotate the control dial, and select the "SET BT INIT".
5. Press the [PUSH ENTER/VOICE] button, and the message "SET INIT-NO" is displayed on the liquid crystal display.
6. Rotate the control dial clockwise, and the message "SET INIT-YES" is displayed on the liquid crystal display.
7. Press the [PUSH ENTER/VOICE] button, and the message "INITIAL" is blinked on the liquid crystal display.
8. When "Bluetooth Initialize" is completed, the message "COMPLETE" is displayed on the liquid crystal display for a moment.
9. Press the [ MODE] button, and return to the state of source off (the clock is displayed) mode.

CLEANING THE CONNECTORS

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.



Notes

- For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.
- Never touch the connectors directly with your fingers or with any metal device.

CANCELING THE DEMO MODE

You can cancel the demonstration display which appears when the source is off and the clock is displayed.

1 Press MENU, rotate the control dial to select [SET DISPLAY], then press it.

2 Rotate the control dial to select [SET DEMO], then press it.

3 Rotate the control dial to select [SET DEMO-OFF], then press it.

The setting is complete.

4 Press (back) twice.

The display returns to normal reception/play mode.

BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE

1. Required Equipment

- This unit to be tested, external microphone of attachment
- Cellular phone (Recommended SEMC W880 or W910i, or select from connectable cellular phones list)
- Bluetooth audio devices (SONY NWZ-A826, or select from connectable cellular phones/audio devices list)
- Speaker connection (at least Front L/R ch)
- DC power supply (12 V)

2. Preparation

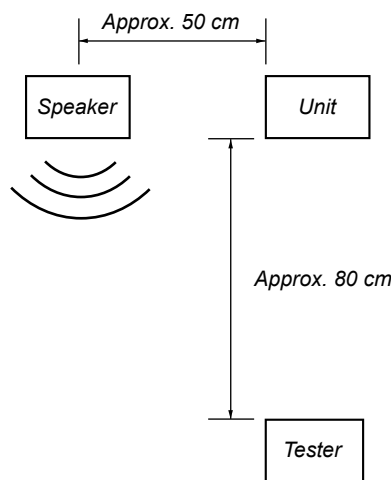
- Confirm the setting of this unit and note down it.
- Press the [CALL] button and rotate the control dial until “SET PAIRING” appears, then press it, confirm that the Bluetooth signal icon (BT) is flashing.
- Turn on the Bluetooth function of the cellular phone.

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 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

Note: Depending on the connecting device, Signal-strength/Battery-remaining indications might not be displayed.
Or, depending on the connecting device, the levels of indications are shown incorrectly.
Even if you see no indications or wrong indications, they are not failures of this unit.

1. Search for this unit from the Bluetooth device (cellular phone), and confirm whether this unit (model name) is displayed.
2. Search for the distance of this unit and the Bluetooth device (cellular phone) about 5 m apart.
Confirm whether the Bluetooth device (or this unit) is displayed after it searches.
3. Do the pairing of the cellular phone and this unit (input of passkey).
4. Connect the cellular phone with this unit, and confirm the “HF” icon (HF) lights.
5. Confirm the connection continues even if the distance of the cellular phone and this unit is separated by about 5 m.
6. Set this unit besides the “BT PHONE” source, and call the 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 (An external microphone is connected).
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 cellular phone again.

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

7. Bluetooth Audio Function Check

Note: 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 cellular phone with Bluetooth audio function) with this unit, and confirm the “Audio Streaming” icon (AS) lights.
2. Playback 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 [SEEK+], [SEEK-] and [PAUSE 6] buttons operation).

Note: Varies depending on the connected Bluetooth audio device.

8. What to Do after Checking

- After checking, select “SET BT INIT” from the menu list of this unit to execute initialization.
(Connected device information is deleted)

BLUETOOTH INFORMATION WRITING METHOD

When the complete MAIN board, knob (VOL) (SV) assy or front panel (SV) assy is replaced, the writing of Bluetooth information is necessary.

Write the Bluetooth information according to the procedure below.

Preparation:

- Windows PC
- NFC compatible smartphone that installed the file manager application (ASTRO File Manager, File Expert, etc.)
- USB cable for the smartphone
- NFCTagWriter.apk (ver.1.0.2 and above)

Note 1: The NFCTagWriter.apk is updated. When the NFCTagWriter.apk is prepared already, be sure to refer to the “6. Version Check Method of the NFC Tag Data Writing Application for the Servicing” on the page 12, and check the version of NFCTagWriter.apk.

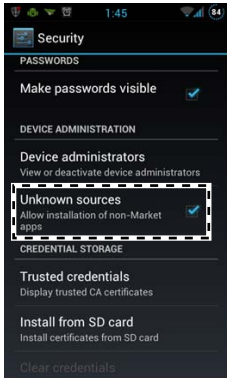
Note 2: Confirm the method of obtaining the NFCTagWriter.apk to the service headquarters.

1. Installing the NFC Writing Application for the Servicing

Install the NFCTagWriter.apk on the smartphone for writing of Bluetooth information.

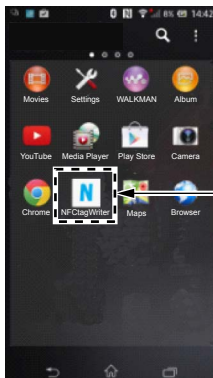
Procedure:

1. Prepare the NFCTagWriter.apk file on the PC.
2. Connect the smartphone to the PC with the USB cable.
3. Transfer the NFCTagWriter.apk to the smartphone.
4. When tapping the “Settings” → “Security” on the screen of the smartphone, check the box “Unknown sources”.



5. Disconnect the smartphone from the PC.
6. Use the file manager application to explore the NFCTagWriter.apk on the smartphone.
7. Click on the NFCTagWriter.apk to open it, and install the NFCTagWriter.apk to the smartphone.
8. When tapping the “Settings” → “Security” on the screen of the smartphone, uncheck the box “Unknown sources”.

– Screen after the installation for reference –



NFCTagWriter application

9. Refer to the “6. Version Check Method of the NFC Tag Data Writing Application for the Servicing” on the page 12, and check the version of NFCTagWriter.apk.
 ver.0.9.0 : The use is not allowed.
 Install the NFCTagWriter.apk of ver.1.0.2 and above.
 ver.1.0.2 and above: This use is allowed.

2. Writing the NFC Tag Data

Write the NFC tag data (Bluetooth information) to the NFC module in the knob (VOL) (SV) assy.

Procedure:

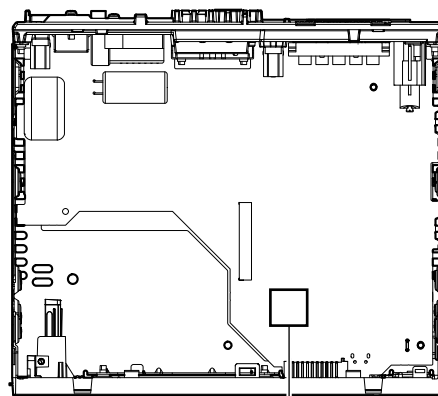
1. Check the Bluetooth address (BD_ADDR).
 There are following two checking methods.
 - How to read from the BT module label
 - How to display on the liquid crystal display by the test mode

How to read from the BT module label:

Set the unit to the state where the BT module (Ref. No. IC1002 on the MAIN board) can be seen.

(Refer to the “2. DISASSEMBLY” on the page 23 and after)

– MAIN board top view –



BD_ADDR
(Barcode)

BD_ADDR



BT module label

– Continued on next page –

How to display on the liquid crystal display by the test mode:

1. In 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 [S 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).

Software main version



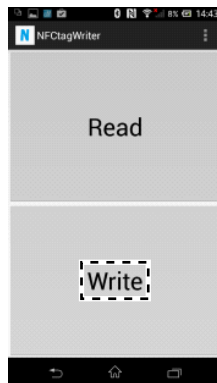
2. In the state in which the software main version is displayed on the liquid crystal display, enter the Bluetooth address (BD_ADDR) display mode by pressing the [SCRL DSPL] button.
(Displayed characters/values in the following figure are example)

Bluetooth address (BD_ADDR)

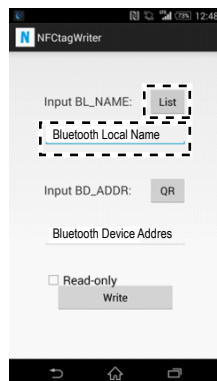


3. The resetting operation is executed by pressing the [OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.

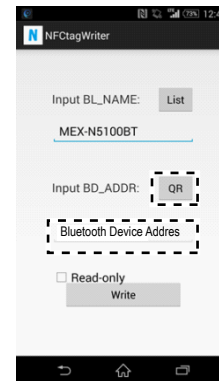
2. Turn on the NFC function of the smartphone.
3. Start the NFCTagWriter application on the smartphone.
4. Tap the "Write" on the screen of the smartphone.



5. Input the Bluetooth Local Name (BL_NAME).
(Input the model name with the keyboard on the smartphone, or tap the "List" on the screen of the smartphone and select the model name)



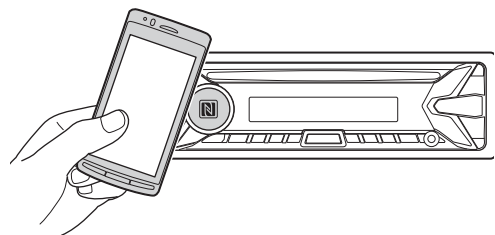
6. Input the Bluetooth address (BD_ADDR).
(Input the Bluetooth address (BD_ADDR) that written on the BT module label with the keyboard on the smartphone, or tap the "QR" on the screen of the smartphone and read the barcode with the camera of the smartphone)



7. Tap the "Write" on the screen of the smartphone, in the state that unchecked the box "Read-only".

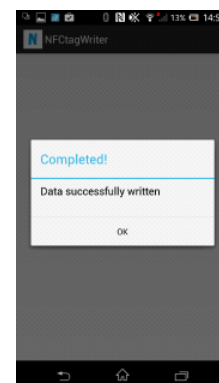


8. Touch the N-mark part of the smartphone to the N-mark part of the unit.

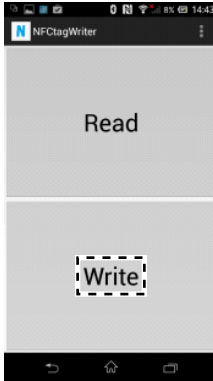


9. Check that "Completed!" is displayed on the screen of the smartphone.

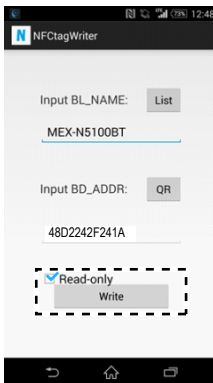
Note 1: When "Completed!" is not displayed on the screen of the smartphone, refer to "3. Error Display" on the page 10.



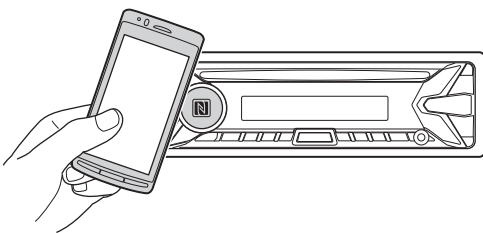
10. End the NFCTagWriter application on the smartphone.
11. Check the operation of connecting with the smartphone by one touch (NFC).
(Refer to the “OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS” on the page 6)
12. Start the NFCTagWriter application on the smartphone.
13. Tap the “Write” on the screen of the smartphone.



14. Check the box “Read-only” on the screen of the smartphone, and tap the “Write” on the screen of the smartphone.

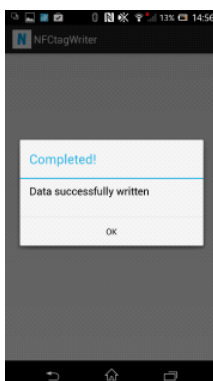


15. Touch the N-mark part of the smartphone to the N-mark part of the unit.

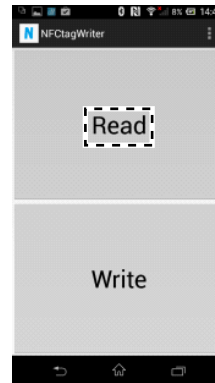


16. Check that “Completed!” is displayed on the screen of the smartphone.

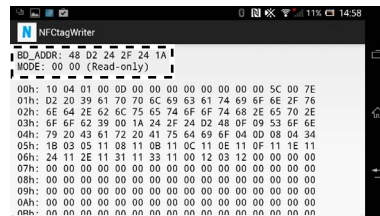
Note 2: When “Completed!” is not displayed on the screen of the smartphone, refer to “3. Error Display”.



17. Tap the “Read” on the screen of the smartphone.



18. Check that “BD_ADDR” on the screen of the smartphone accords with BD_ADDR written on the BT module label and “MODE” on the screen of the smartphone is “00 00 (Read-only)”.

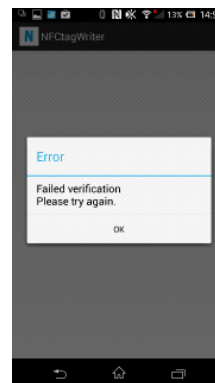


19. End the NFCTagWriter application on the smartphone.
20. Check the operation of connecting with the smartphone by one touch (NFC).
(Refer to the “OPERATION CHECK OF THE NFC AFTER COMPLETING THE REPAIRS” on the page 6)

3. Error Display

When the writing of the NFC tag data has failed, “Error” is displayed on the screen of the smartphone.

When “Error” is displayed on the screen of the smartphone, operate according to the procedure below.



Procedure:

1. Tap the “Write” on the screen of the smartphone to write of the NFC tag data again.
2. When “Error” is displayed on the screen of the smartphone again, tap the “Read” on the screen of the smartphone.
3. Check that “MODE” on the screen of the smartphone is not “00 00 (Read-only)”.
4. When “MODE” on the screen of the smartphone is “00 00 (Read-only)”, execute the writing of the NFC tag data again after replacing the knob (VOL) (SV) assy.
(When “MODE” on the screen of the smartphone is “00 00 (Read-only)”, the writing of the NFC tag data cannot execute)

4. Check Method of the NFC Tag Data

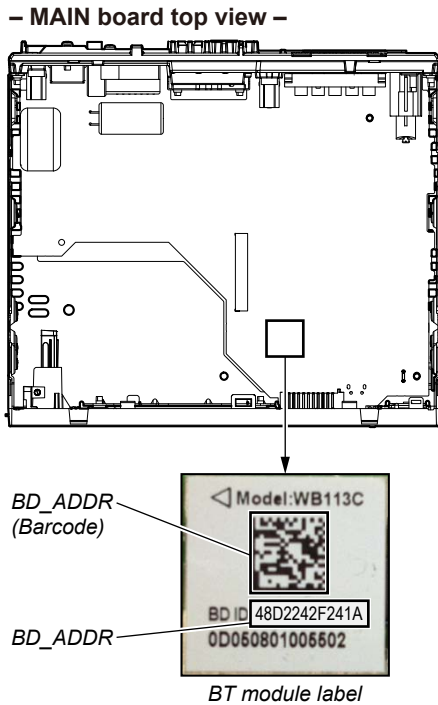
Check the NFC tag data according to the procedure below.

Procedure:

1. Check the Bluetooth address (BD_ADDR).
There are following two checking methods.
 - How to read from the BT module label
 - How to display on the liquid crystal display by the test mode

How to read from the BT module label:

Set the unit to the state where the BT module (Ref. No. IC1002 on the MAIN board) can be seen.
(Refer to the “2. DISASSEMBLY” on the page 23 and after)



How to display on the liquid crystal display by the test mode:

1. In 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 [S 4] → [MIC 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).

Software main version

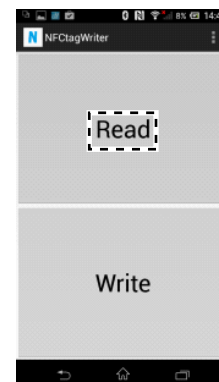


2. In the state in which the software main version is displayed on the liquid crystal display, enter the Bluetooth address (BD_ADDR) display mode by pressing the [← SCRL DSPL] button.
(Displayed characters/values in the following figure are example)

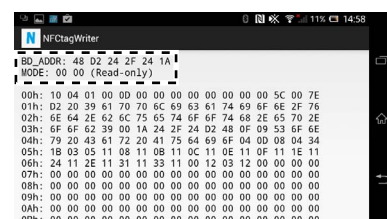
Bluetooth address (BD_ADDR)



3. The resetting operation is executed by pressing the [← OFF SRC] button for 1 second after the confirming ends, and the unit returns to the normal condition.
2. Turn on the NFC function of the smartphone.
3. Start the NFCTagWriter application on the smartphone.
4. Tap the “Read” on the screen of the smartphone.



5. Check that “BD_ADDR” on the screen of the smartphone accords with BD_ADDR written on the BT module label and “MODE” on the screen of the smartphone is “00 00 (Read-only)”.



6. End the NFCTagWriter application on the smartphone.

5. The Factor that One Touch Connection is Impossible

The four following factors are considered as the factor that one touch connection is impossible.

Guess and check the defective factor by each checking result.

Note: The four following factors are examples.

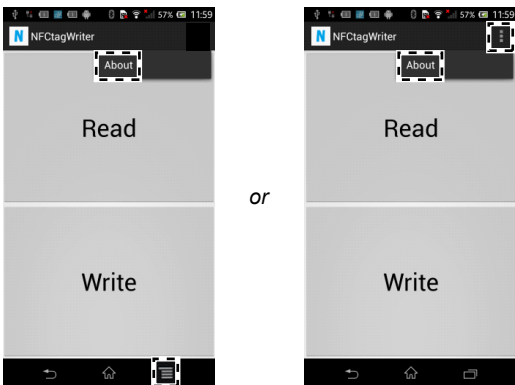
	Factor	Bluetooth manual connection check by user	NFC tag data check	Bluetooth manual connection check by servicing	NFC one touch connection check with smartphone
1	BT module defect	NG	—	NG	NG
2	Knob (VOL) (SV) assy defect	OK	NG	OK	NG
3	NFC tag data writing failure	OK	NG	OK	NG
4	Smartphone	OK	OK	OK	NG

6. Version Check Method of the NFC Tag Data Writing Application for the Servicing

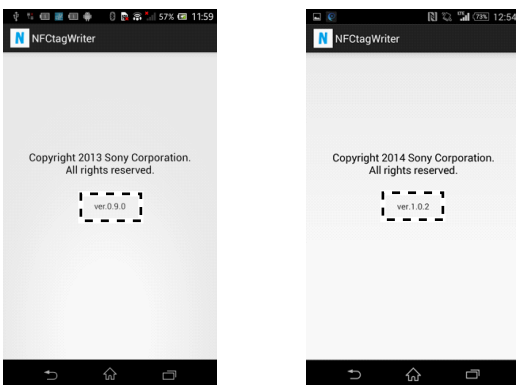
Check the version of the NFC tag data writing application (NFCTagWriter application) for the servicing according to the procedure below.

Procedure:

1. Start the NFCTagWriter application on the smartphone.
2. Tap the “☰” (menu button) or “❗” of the screen of the smartphone, then tap the “About” that is displayed on the screen of the smartphone.



3. Check that version of the NFC tag data writing application for the servicing is displayed on the screen of the smartphone.



ver.0.9.0
The use is not allowed
(Use the ver.1.0.2 and above)

ver.1.0.2
The use is allowed

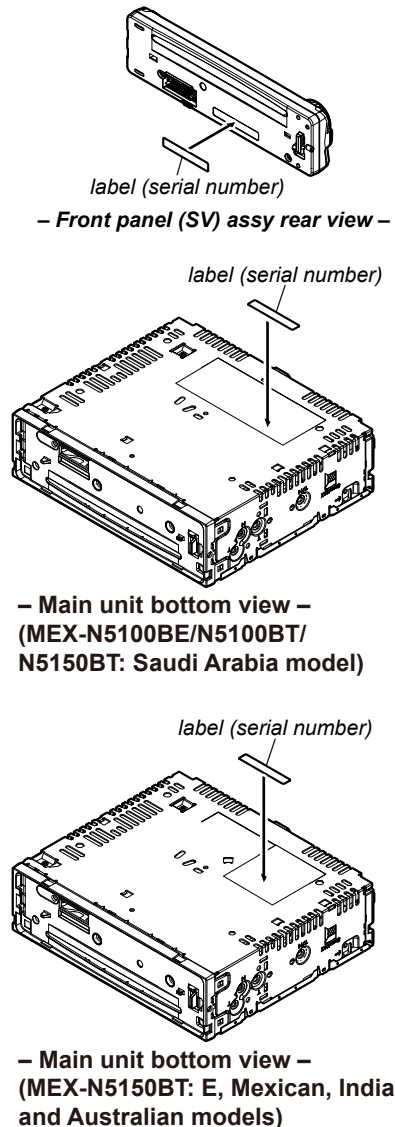
AFFIXING OF LABEL (SERIAL NUMBER)

When the front panel (SV) assy is replaced, it is necessary to affix the label (serial number).

2 labels (serial number) are included with a new front panel (SV) assy. Affix 1 label to the rear side of the front panel (SV) assy. Affix the other one to the bottom side of main unit.

Be sure to perform this procedure, as Bluetooth will not operate correctly if the serial number of the front panel (SV) assy and main unit do not match.

Also, since the serial number has changed, print page 13 and hand the tear-off with the product to the customer when returning the product after repairs are complete.



MEMO

SECTION 2
GENERAL

This section is extracted from instruction manual.

(US and Canadian models)

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.

Precautions

- 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.

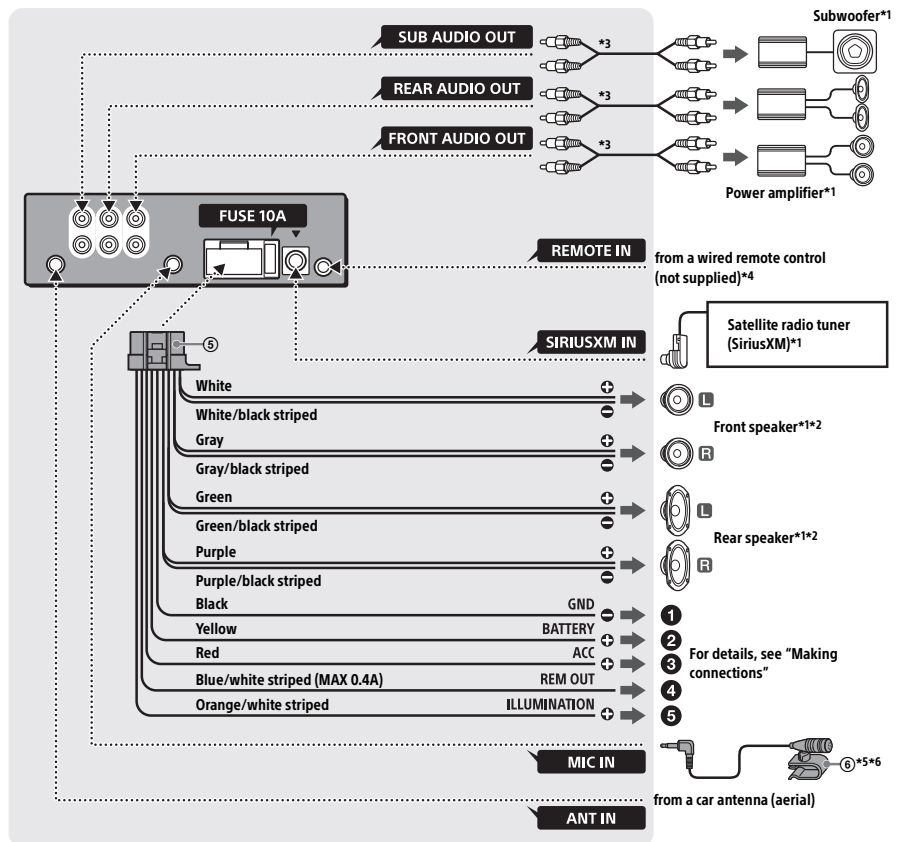
Note on the power supply lead (yellow)

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.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connection



*1 Not supplied

*2 Speaker impedance: 4 – 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).

*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.

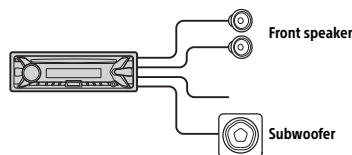
*6 For details on installing the microphone, see "Installing the microphone"

Making connections

- To a common ground (earth) point**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- 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.
- 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.
- 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.
- To a car's illumination signal**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

Subwoofer Easy Connection

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



Note

Use a subwoofer with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

Memory hold connection

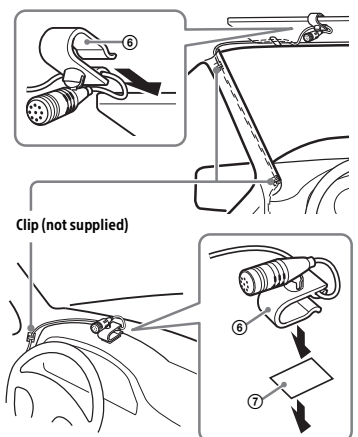
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

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.

Note

Before attaching the double-sided tape ⑦, 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 [SET STEERING] → [STR EDIT] 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

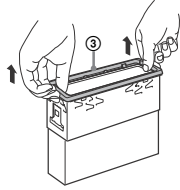
- To enable the wired remote control, set [STR CONTROL] in [SET STEERING] to [EXTERNAL].

Installation

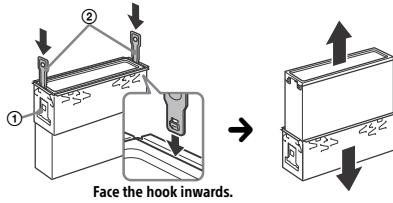
Removing the protection collar and the bracket

Before installing the unit, remove the protection collar ③ and the bracket ① from the unit.

- Pinch both edges of the protection collar ③, then pull it out.



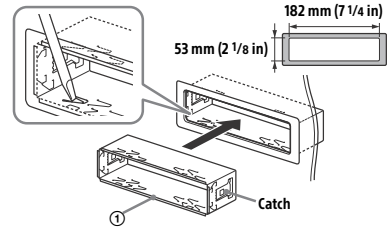
- Insert both release keys ② until they click, and pull down the bracket ①, then pull up the unit to separate.



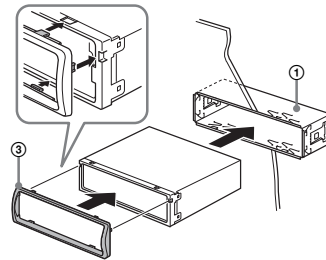
Mounting the unit in the dashboard

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

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



- Mount the unit onto the bracket ①, then attach the protection collar ③.



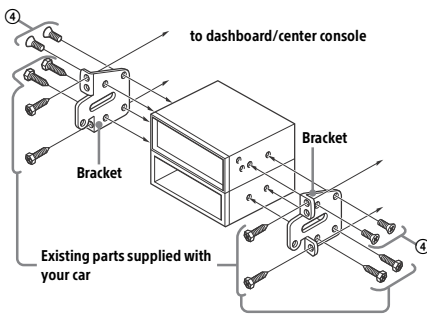
Notes

- 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 protection collar ③ are properly engaged in the slots of the unit.

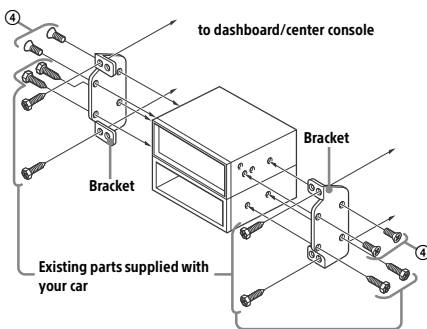
Mounting the unit in a Japanese car

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

TOYOTA



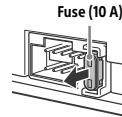
NISSAN



Note
To prevent malfunction, install only with the supplied 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.



(AEP and UK models)

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 lead 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.

Precautions

- 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.

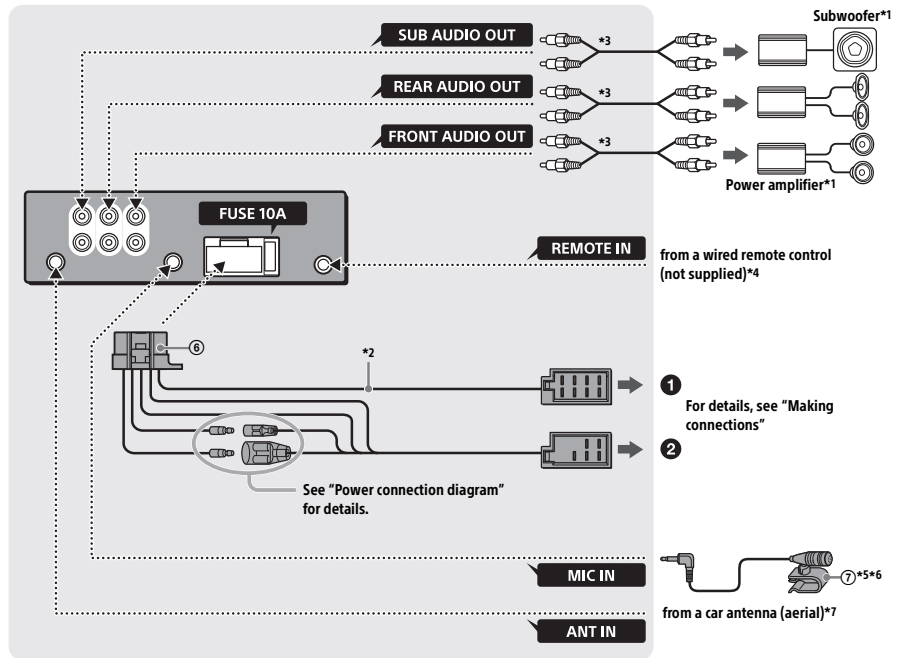
Note on the power supply lead (yellow)

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.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connection

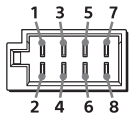


- *1 Not supplied
- *2 Speaker impedance: 4 – 8 Ω × 4
- *3 RCA pin cord (not supplied)
- *4 Depending on the type of car, use an adaptor for a wired remote control (not supplied).
- *5 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet.
- *6 For details on installing the microphone, see "Installing the microphone"
- *7 Depending on the type of car, use an adaptor (not supplied) if the antenna connector does not fit.

Making connections

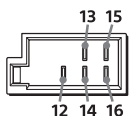
If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ⑥ may damage the antenna (aerial).

1 To the car's speaker connector



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

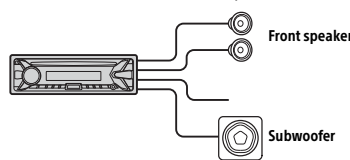
2 To the car's power connector



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

Subwoofer Easy Connection

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



- Notes
- Preparation of the rear speaker cords is required.
 - Use a subwoofer with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

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.

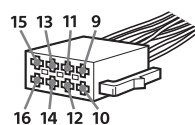
Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

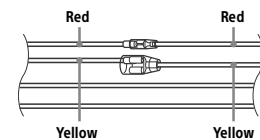
Power connection diagram

Make sure your car's auxiliary power connector, and match the connections of cords correctly depending on the car.

Auxiliary power connector

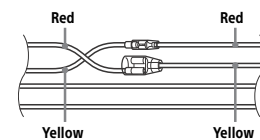


Common connection



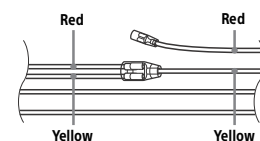
12	continuous power supply	Yellow
15	switched power supply	Red

When the positions of the red and yellow leads are inverted



12	switched power supply	Yellow
15	continuous power supply	Red

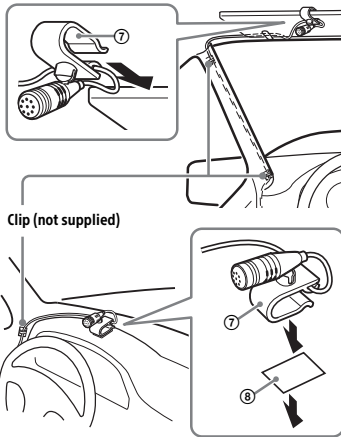
When the car without ACC position



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.

Note

Before attaching the double-sided tape ⑧, clean the surface of the dashboard with a dry cloth.

Using the wired remote control

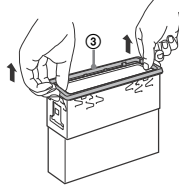
- 1 To enable the wired remote control, set [STR CONTROL] in [SET STEERING] to [EXTERNAL].

Installation

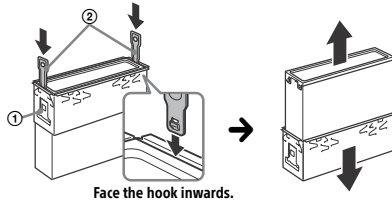
Removing the protection collar and the bracket

Before installing the unit, remove the protection collar ③ and the bracket ① from the unit.

- 1 Pinch both edges of the protection collar ③, then pull it out.



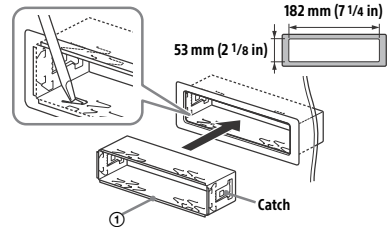
- 2 Insert both release keys ② until they click, and pull down the bracket ①, then pull up the unit to separate.



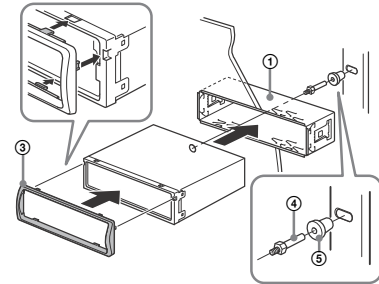
Mounting the unit in the dashboard

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

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



- 2 Mount the unit onto the bracket ①, then attach the protection collar ③.

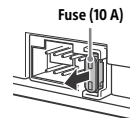


Notes

- 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 protection collar 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.



(Russian model)

Установка/подключение

Внимание!

- Подведите все заземляющие провода к общей точке заземления.
- Не допускайте попадания проводов под винты или между подвижными деталями (например, между направляющими сидений).
- Во избежание короткого замыкания перед установкой соединений выключите зажигание автомобиля.
- Сначала подсоедините провод питания ⑥ к устройству и громкоговорителям, а затем — к контактам внешнего источника питания.
- В целях безопасности обязательно изолируйте все свободные неподсоединенные провода электроизоляционной лентой.

Меры предосторожности

- Тщательно выбирайте место для установки аппарата, чтобы он не мешал управлению автомобилем.
- Не устанавливайте аппарат там, где он будет подвержен воздействию пыли, грязи, чрезмерной вибрации или высоких температур, например в местах, куда попадают прямые солнечные лучи, или вблизи вентиляционных решеток обогревателей.
- В целях обеспечения надежной и безопасной установки используйте лишь входящие в комплект монтажные детали.

Примечание относительно провода питания (желтый)

При подключении данного устройства вместе с другими стереокомпонентами номинальное значение силы тока в контуре питания автомобиля должно превышать суммарное значение силы тока, указанное на предохранителях всех компонентов.

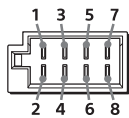
Регулировка угла установки

Отрегулируйте угол установки так, чтобы он составлял менее 45°.

Установка соединений

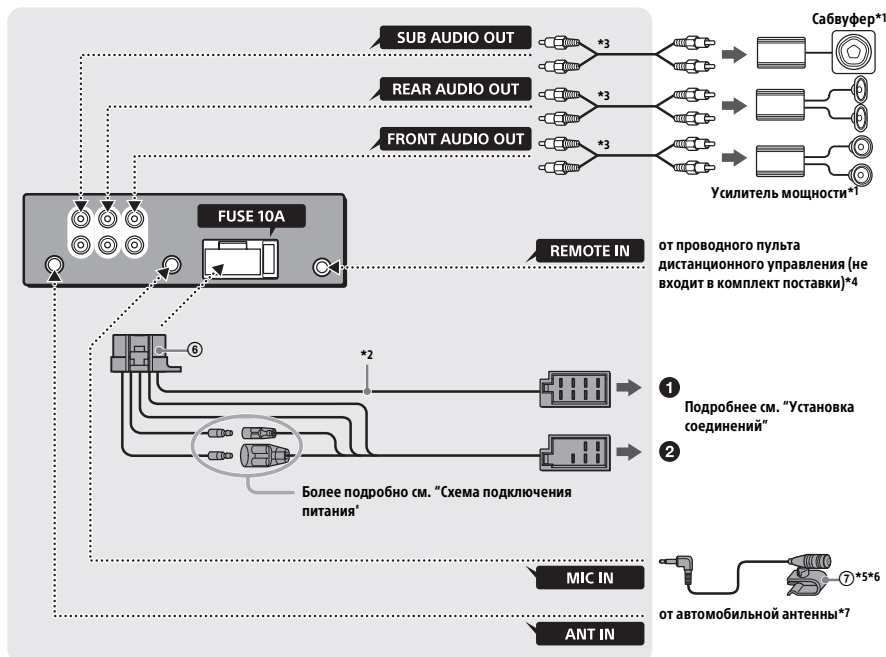
Если используется антенна с электроприводом без релейного блока, подсоединение этого устройства с помощью прилагаемого провода питания ⑥ может привести к повреждению антенны.

1 К разъему громкоговорителя автомобиля



1	Задний громкоговоритель (правый)	⊕	Фиолетовый
2		⊖	Фиолетовый/с черными полосками
3	Передний громкоговоритель (правый)	⊕	Серый
4		⊖	Серый/с черными полосками
5	Передний громкоговоритель (левый)	⊕	Белый
6		⊖	Белый/с черными полосками
7	Задний громкоговоритель (левый)	⊕	Зеленый
8		⊖	Зеленый/с черными полосками

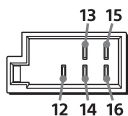
Подключение



- *1 Не входит в комплект поставки.
- *2 Полное сопротивление громкоговорителей: 4–8 Ом × 4
- *3 Кабель с разъемами RCA (не входит в комплект поставки).
- *4 В зависимости от типа автомобиля, возможно, потребуется использовать адаптер для проводного пульта дистанционного управления (не входит в комплект поставки).
- *5 Независимо от того, будет он использоваться или нет, прокладывайте кабель для подключения микрофона таким образом, чтобы он не препятствовал управлению автомобилем. Закрепите кабель с помощью зажима и т. д., если он прокладывается возле ног.

- *6 Дополнительные сведения об установке микрофона см. на "Установка микрофона"
- *7 В зависимости от типа автомобиля используйте адаптер (не входит в комплект поставки), если разъем антенны не подходит.

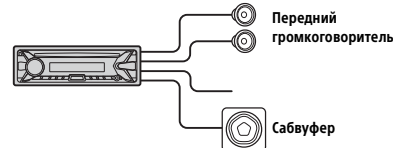
2 К разъему электропитания автомобиля



12	Источник бесперебойного электропитания	Желтый
13	Антенна с электроприводом/ управление усилителем мощности (REM OUT)	Синий/с белыми полосками
14	Импульсный источник электропитания подсветки	Оранжевый/с белыми полосками
15	Импульсный источник электропитания	Красный
16	Заземление	Черный

Простое подключение сабвуфера

Сабвуфер можно использовать без усилителя мощности, если подключить его к кабелю заднего громкоговорителя.



Примечания

- Требуется подготовка кабелей задних громкоговорителей.
- Во избежание повреждений используйте сабвуфер с полным сопротивлением 4–8 Ом и соответствующей предельно допустимой мощностью.

Подсоединение для поддержки памяти

Когда к устройству подсоединен желтый провод питания, блок памяти будет постоянно получать питание, даже при выключенном зажигании.

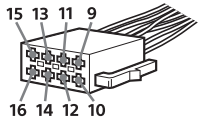
Подключение громкоговорителей

- Перед подключением громкоговорителей выключите устройство.
- Во избежание повреждений используйте громкоговорители с полным сопротивлением 4–8 Ом и соответствующей предельно допустимой мощностью.

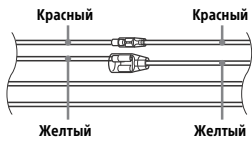
Схема подключения питания

Проверьте разъем подключения вспомогательного питания автомобиля и правильно распределите соединения проводов (в зависимости от типа автомобиля).

Разъем подключения вспомогательного питания

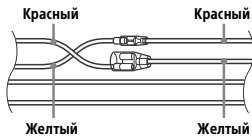


Общая схема подключения



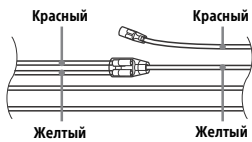
12	Источник бесперебойного электропитания	Желтый
15	Импульсный источник электропитания	Красный

Если красный и желтый провода переставлены местами



12	Импульсный источник электропитания	Желтый
15	Источник бесперебойного электропитания	Красный

Если в автомобиле нет положения ACC

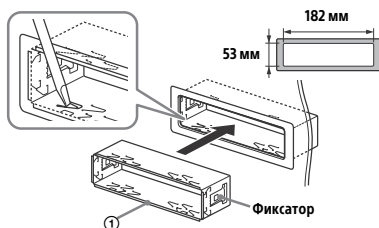


После проверки соответствия соединений и проводов импульсного источника электропитания подключите устройство к автомобильному контуру электропитания. В случае возникновения каких-либо вопросов или проблем, связанных с подключением устройства, которые не рассматриваются в настоящем руководстве, обратитесь за советом к дилеру автомобильной фирмы.

Установка устройства в приборной панели

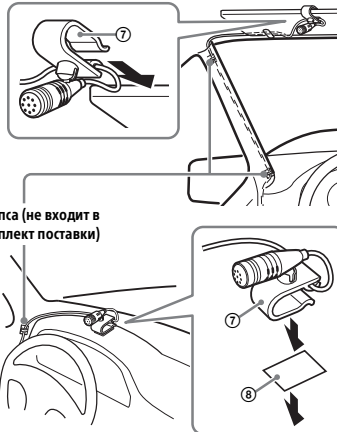
Перед установкой убедитесь, что фиксаторы с обеих сторон кронштейна ① согнуты вовнутрь на 2 мм.

1 Установите кронштейн ① в приборную панель, затем выгните выступы наружу, чтобы обеспечить плотную фиксацию.



Установка микрофона

Для записи голоса во время вызовов с использованием громкой связи необходимо установить микрофон ⑦.



Клипса (не входит в комплект поставки)

Внимание!

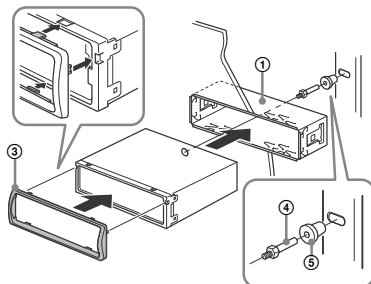
- Следите за тем, чтобы кабель не обматывался вокруг колонки рулевого управления или рычага коробки передач — это очень опасно! Следите за тем, чтобы он и другие детали не препятствовали управлению автомобилем.
- Если в вашем автомобиле установлены подушки безопасности или другое ударопоглощающее оборудование, перед установкой свяжитесь с магазином, в котором вы приобрели данное устройство или с автомобильным дилером.

Примечание
Перед наклеиванием двусторонней клейкой ленты ⑧ очистите поверхность приборной панели сухой материей.

Использование проводного пульта дистанционного управления

1 Чтобы активировать проводной пульт дистанционного управления, установите для [STR CONTROL] в [SET STEERING] значение [EXTERNAL].

2 Прикрепите устройство к кронштейну ①, затем вставьте защитную манжету ③.



Примечания

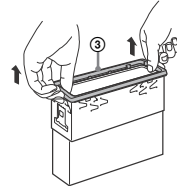
- Если фиксаторы не согнуты или выгнуты наружу, устройство не будет установлено надлежащим образом и может выпасть
- Убедитесь, что 4 фиксатора на защитной манжете ③ надлежащим образом вставлены в отверстия, имеющиеся в устройстве.

Установка

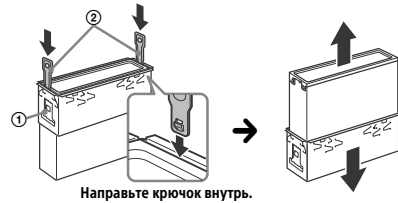
Отсоединение защитной манжеты и кронштейна

Перед монтажом устройства отсоедините защитную манжету ③ и кронштейн ① от устройства.

1 Захватите оба края защитной манжеты ③, а затем вытащите ее.



2 Вставьте оба ключа для демонтажа ② до щелчка, потяните кронштейн ① вниз, а затем потяните устройство вверх, чтобы отсоединить его.



Направьте крючок внутрь.

Замена предохранителя

При замене предохранителей обязательно используйте только те, которые соответствуют силе тока, указанной на оригинальном предохранителе. Если перегорел предохранитель, проверьте подключение питания и замените предохранитель. Если после замены предохранитель снова перегорел, это может означать неисправность устройства. В этом случае обратитесь к ближайшему дилеру Sony.



(E, Saudi Arabia, Mexican, Indian and Australian models)

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.

Precautions

- 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.

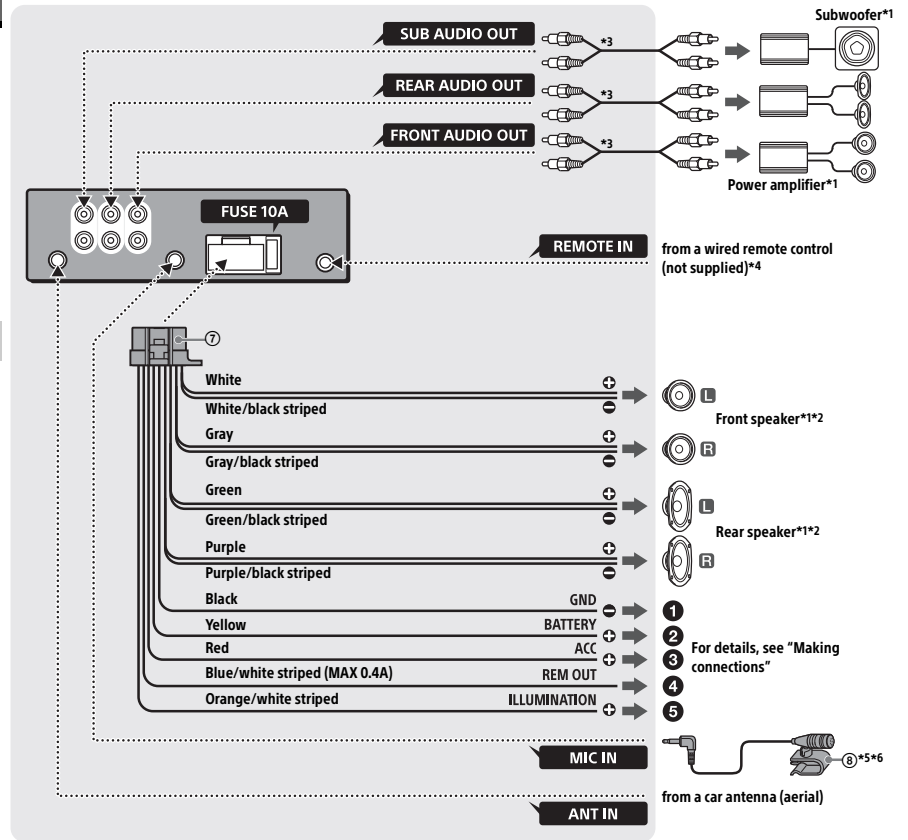
Note on the power supply lead (yellow)

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.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Connection



*1 Not supplied

*2 Speaker impedance: 4 – 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).

*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.

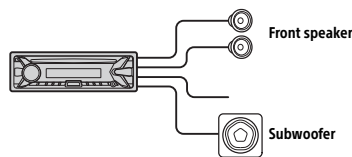
*6 For details on installing the microphone, see "Installing the microphone"

Making connections

- To a common ground (earth) point**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- 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.
- 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.
- 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.
- To a car's illumination signal**
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

Subwoofer Easy Connection

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



Note

Use a subwoofer with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

Memory hold connection

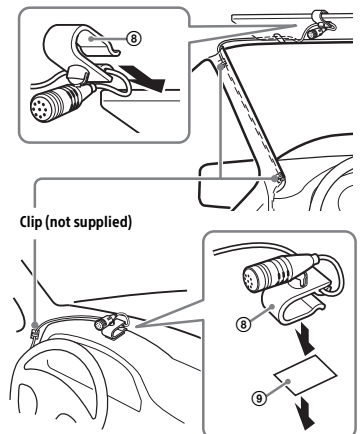
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid damage.

Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑧.



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.

Note

Before attaching the double-sided tape ⑨, clean the surface of the dashboard with a dry cloth.

MEX-N5100BE/N5100BT/N5150BT

(E, Saudi Arabia, Indian and Australian models)

Using the wired remote control

- To enable the wired remote control, set [STR CONTROL] in [SET STEERING] to [EXTERNAL].

(Mexican model)

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 [SET STEERING] → [STR EDIT] 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.

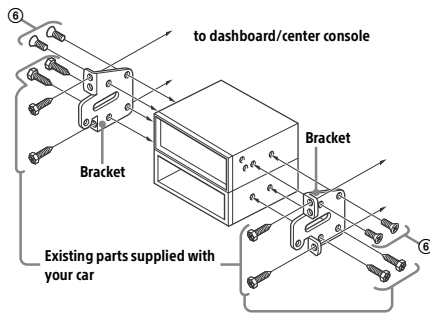
When using the wired remote control

- To enable the wired remote control, set [STR CONTROL] in [SET STEERING] to [EXTERNAL].

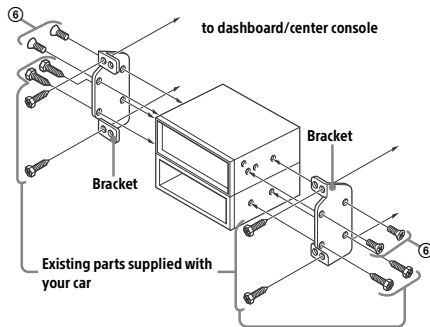
Mounting the unit in a Japanese car

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



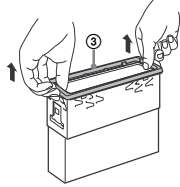
Note
To prevent malfunction, install only with the supplied screws ⑥.

Installation

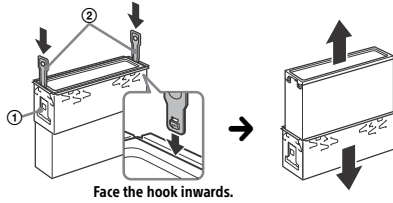
Removing the protection collar and the bracket

Before installing the unit, remove the protection collar ③ and the bracket ① from the unit.

- Pinch both edges of the protection collar ③, then pull it out.



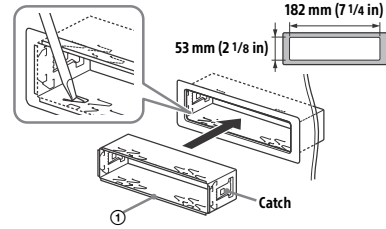
- Insert both release keys ② until they click, and pull down the bracket ①, then pull up the unit to separate.



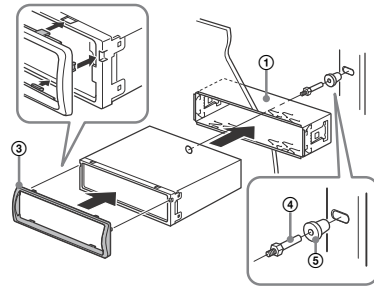
Mounting the unit in the dashboard

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

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

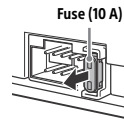


- Mount the unit onto the bracket ①, then attach the protection collar ③.



Fuse replacement

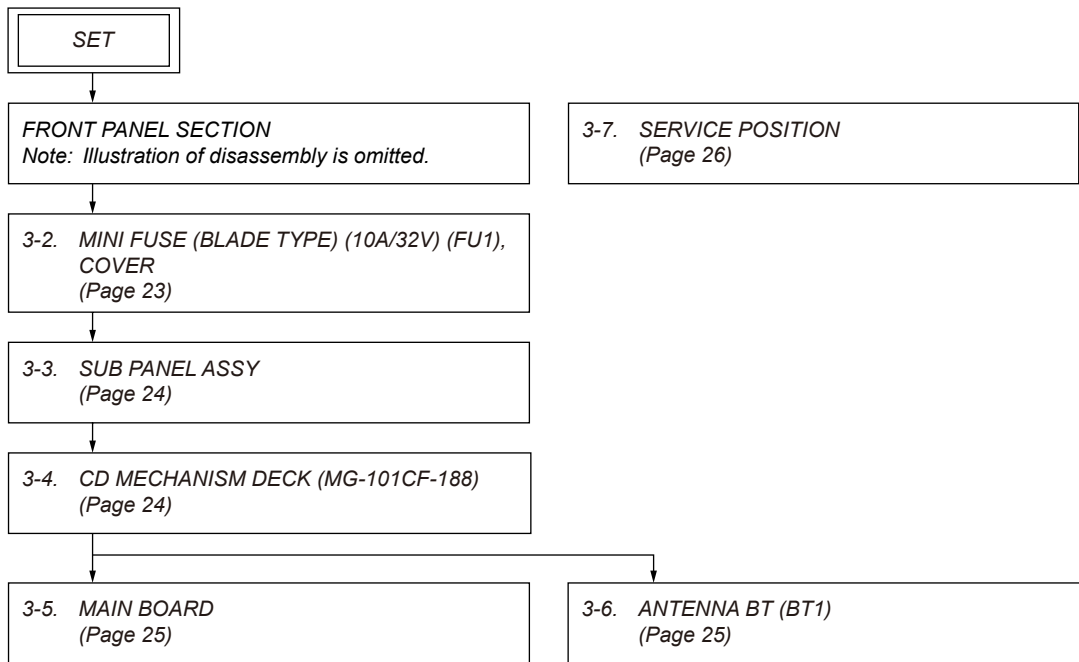
When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



SECTION 3 DISASSEMBLY

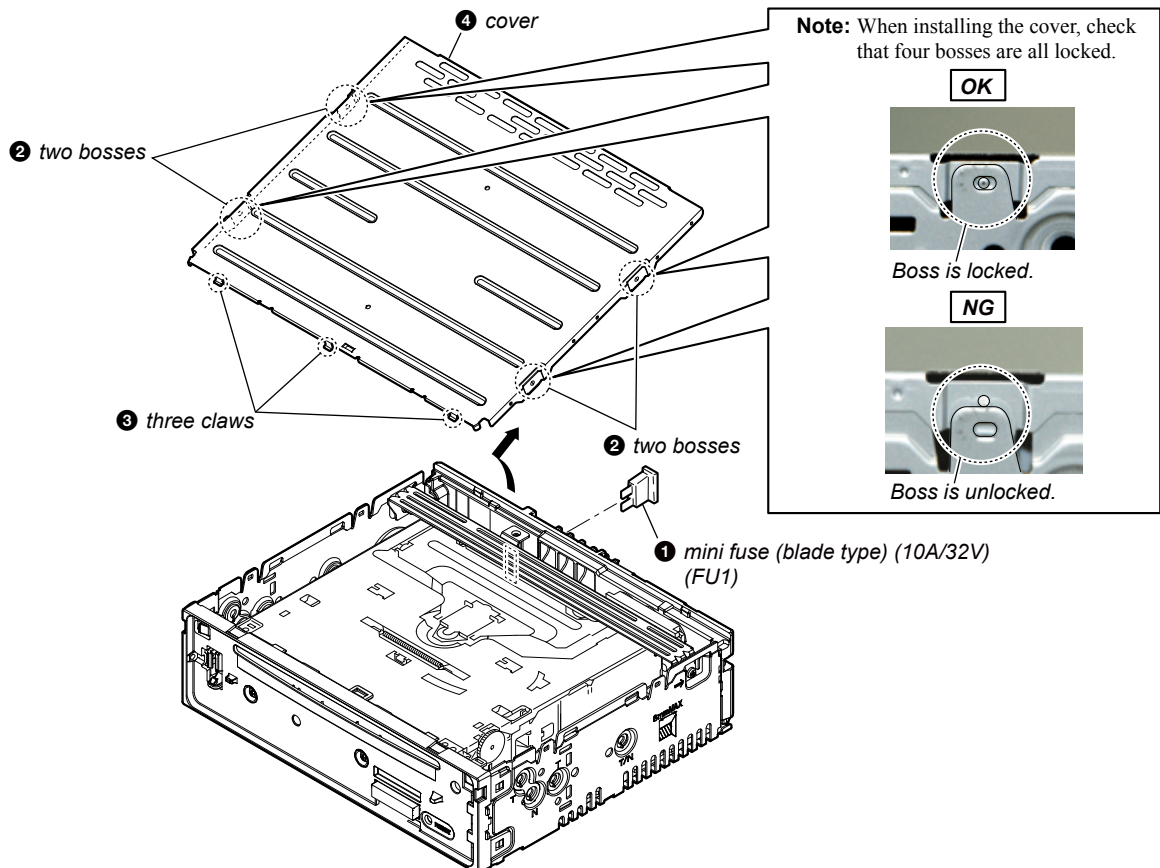
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

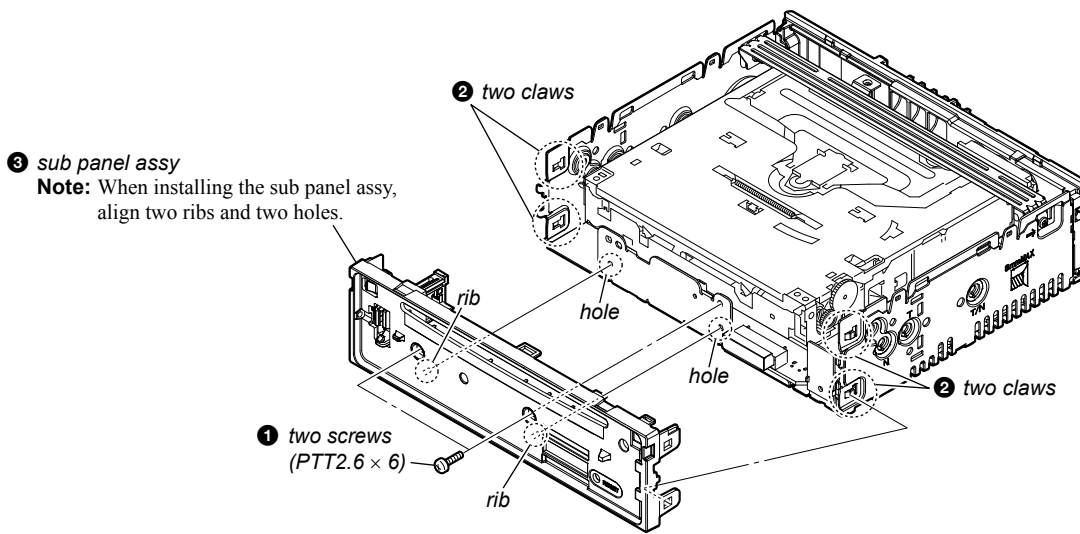


Note: Follow the disassembly procedure in the numerical order given.

3-2. MINI FUSE (BLADE TYPE) (10A/32V) (FU1), COVER

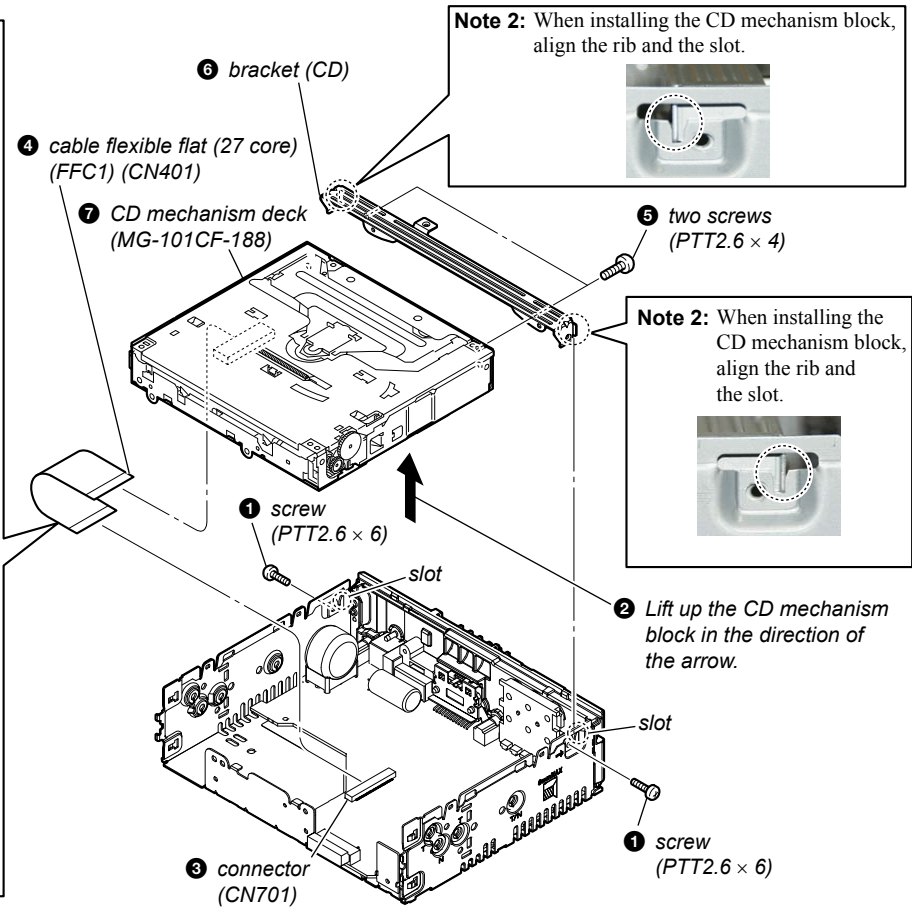
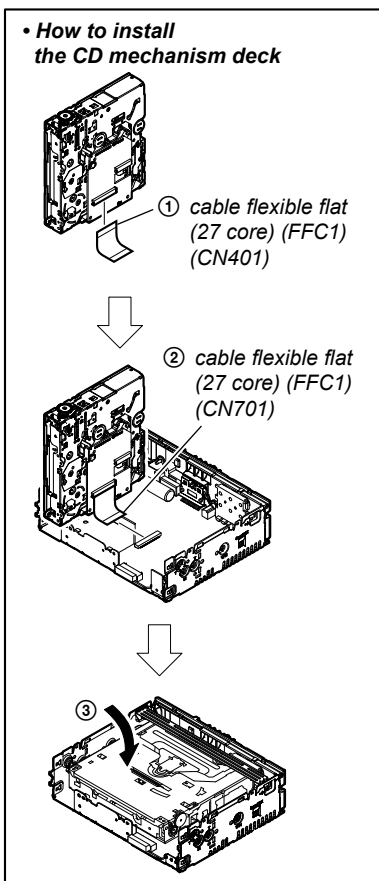


3-3. SUB PANEL ASSY

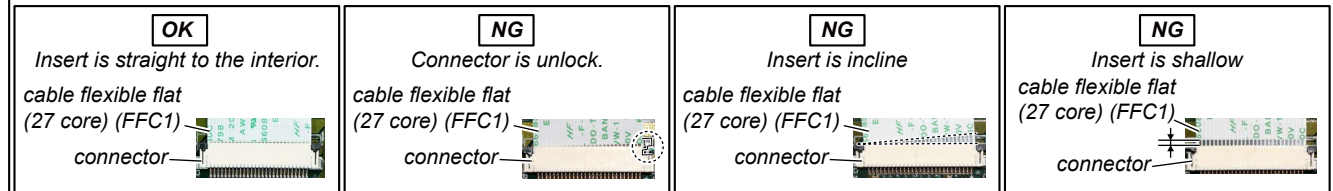


3-4. CD MECHANISM DECK (MG-101CF-188)

Note 1: The service manual of the mechanism deck, used in this model has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.



Note 3: When installing the cable flexible flat (27 core) (FFC1), insert straight to the connector and lock a connector completely. No slanting after insertion.



3-5. MAIN BOARD

Note 1: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to “DESTINATION SETTING METHOD” on page 4, “BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE” on page 7 and “BLUETOOTH INFORMATION WRITING METHOD” on page 8.

• Wire setting

lead wire from antenna BT
Note 2: Arrange the lead wire along a white line.

connector (CN1002) white line antenna BT
 front side MAIN board

OK
 lead wire with connector
 connector

NG
 lead wire with connector
 connector

Note 3: The heat transfer sheet must be pasted on this position. However, when the MAIN board block is removed, the heat transfer sheet may adhere to the MAIN board. Paste the heat transfer sheet on this place again then.

heat transfer sheet
 guide line

③ screw (PTT2.6 × 8)
 ② two ground point screws (PTT2.6 × 6)
 ③ screw (PTT2.6 × 8)
 ⑤ Remove the MAIN board block in the direction of the arrow.
 ④ claw
 ① lead wire with connector (CN1002)
 ④ claw

3-6. ANTENNA BT (BT1)

• Wire setting

lead wire from antenna BT
Note: Arrange the lead wire along a white line.

connector (CN1002) white line antenna BT
 front side MAIN board

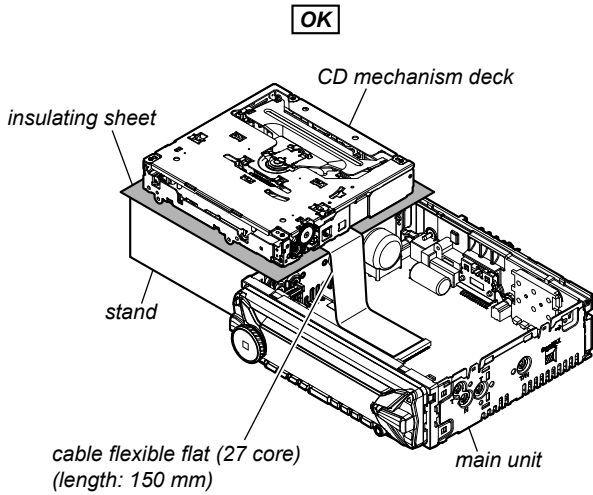
OK
 lead wire with connector
 connector

NG
 lead wire with connector
 connector

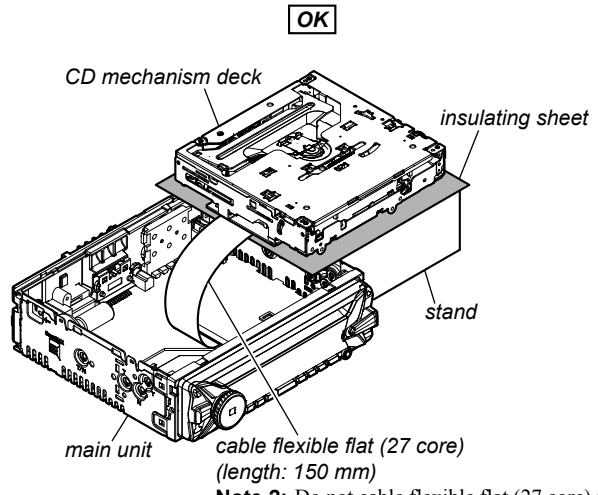
① lead wire with connector (CN1002)
 ② screw (T)
 ③ antenna BT (BT1)

3-7. SERVICE POSITION

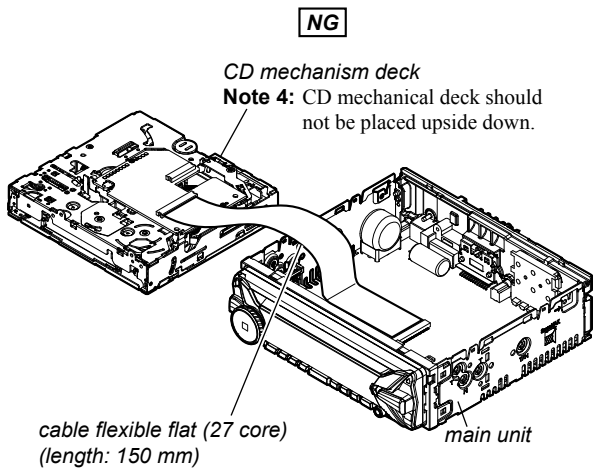
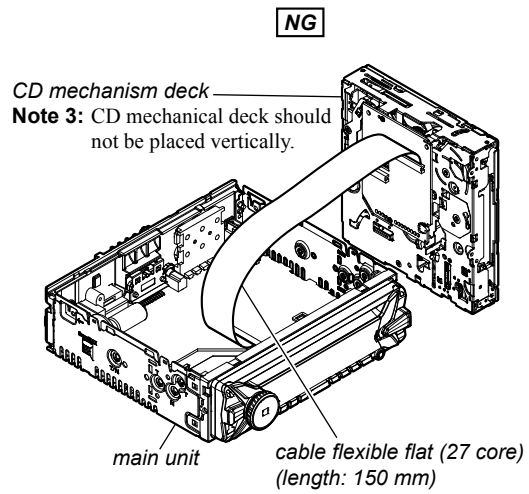
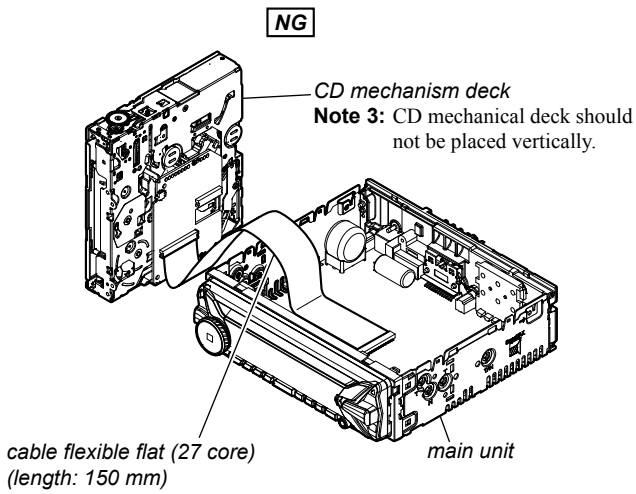
Note 1: The service position below cannot be performed with the flexible flat cable (length: 80 mm) used with the unit. Refer to “NOTE OF PERFORMING THE OPERATION CHECK” in the servicing notes, and use a long flexible flat cable (length: 150 mm).



Note 2: Do not cable flexible flat (27 core) is damaged by the edge of the chassis.



Note 2: Do not cable flexible flat (27 core) is damaged by the edge of the chassis.



SECTION 4 TEST MODE

SETTING THE TEST MODE

Setting method:

1. In the state of source off (the clock is displayed), enter the test mode by pressing the buttons in order of the [☞ 4] → [MIC 5] → [▼ ALBUM 1] (press only the [▼ ALBUM 1] button for two seconds).
2. It is set to the test mode, and all segments of the liquid crystal display light.

Releasing method:

Press the [■ OFF SRC] button for 1 second.

MICROPHONE AUDIO LOOPBACK

To confirm the state of the external microphone used when a handsfree 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 cellular phone.

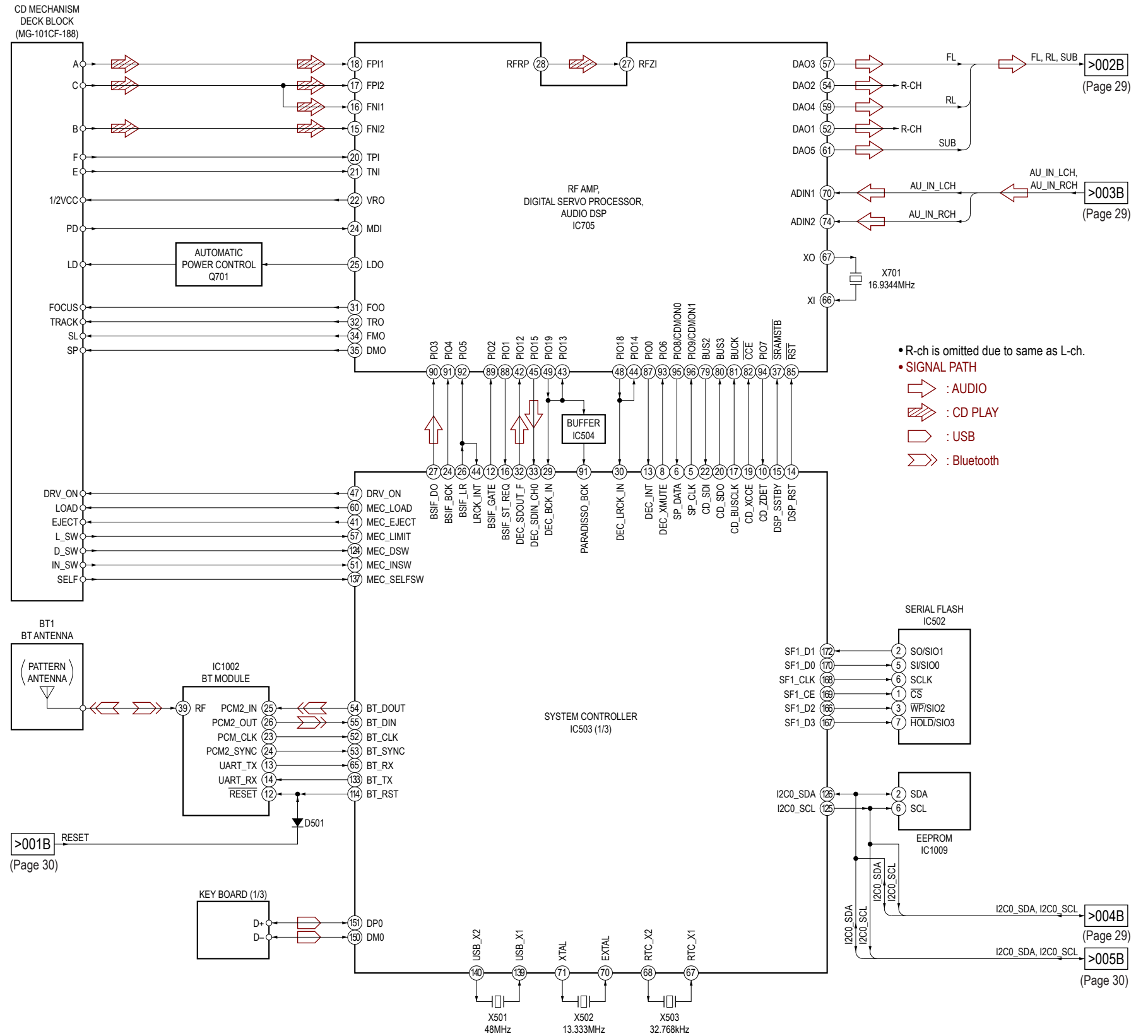
Procedure:

1. Enter the test mode.
2. Press the [■ OFF SRC] button to select the Bluetooth Phone function.
3. On/off of the microphone audio loopback function changes whenever the [ALBUM ▲ 2] button is pressed (“○” is displayed on the liquid crystal display).

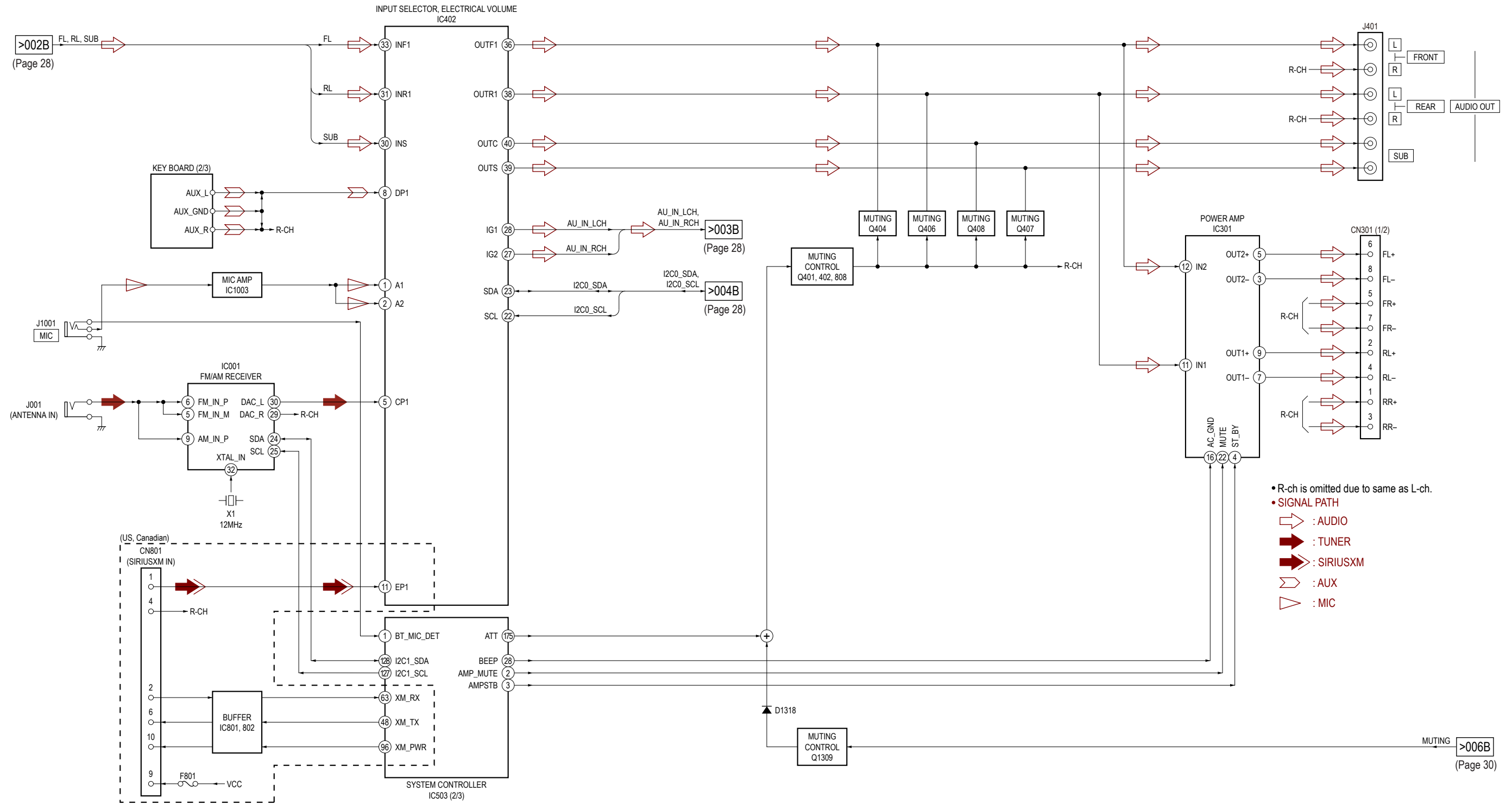
LOOPBACK	○
ON	Lit
OFF	None

SECTION 5
DIAGRAMS

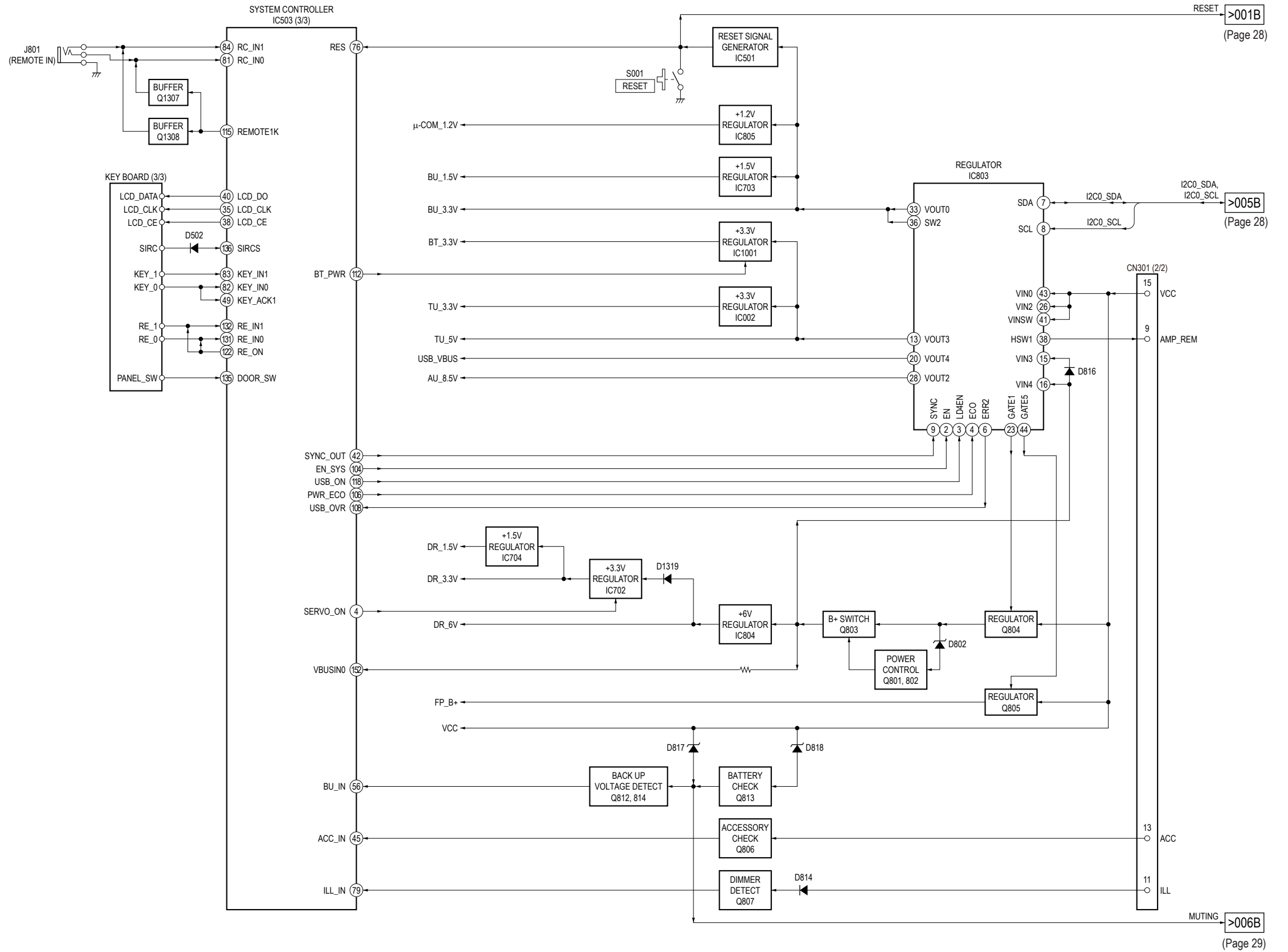
5-1. BLOCK DIAGRAM - SERVO/BT/USB Section -



5-2. BLOCK DIAGRAM - MAIN 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.

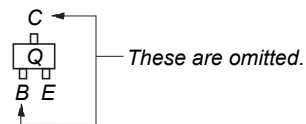
Note:

- : Parts extracted from the component side.
- : Parts extracted from the conductor side.
- △: Internal component.
- : 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.

- Indication of transistor.



Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

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.
- △: Internal component.
- □: Panel designation.

Note:

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

Note:

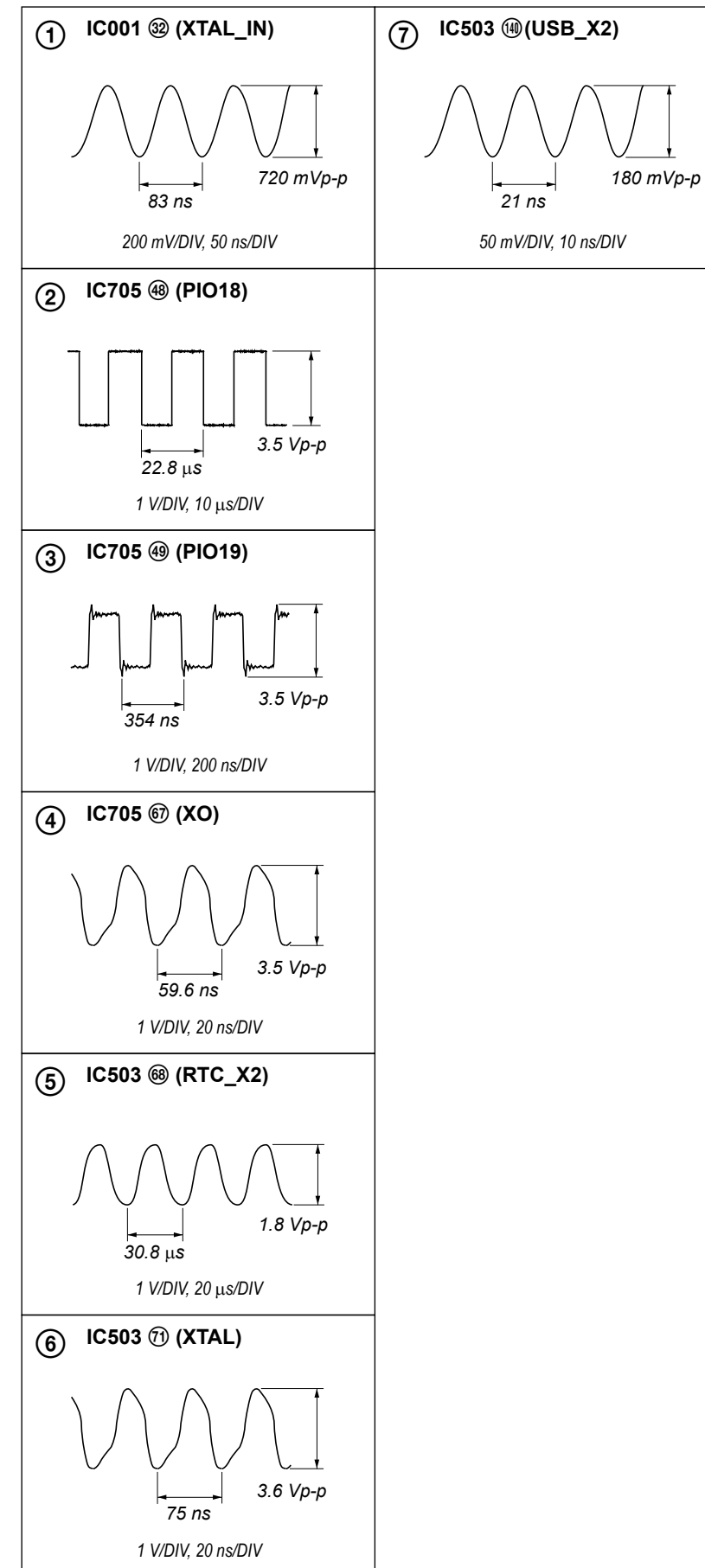
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- —: 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)
(): CD PLAY
* : 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
→: CD PLAY
□: USB
→: AUX
→: Bluetooth
□: MIC

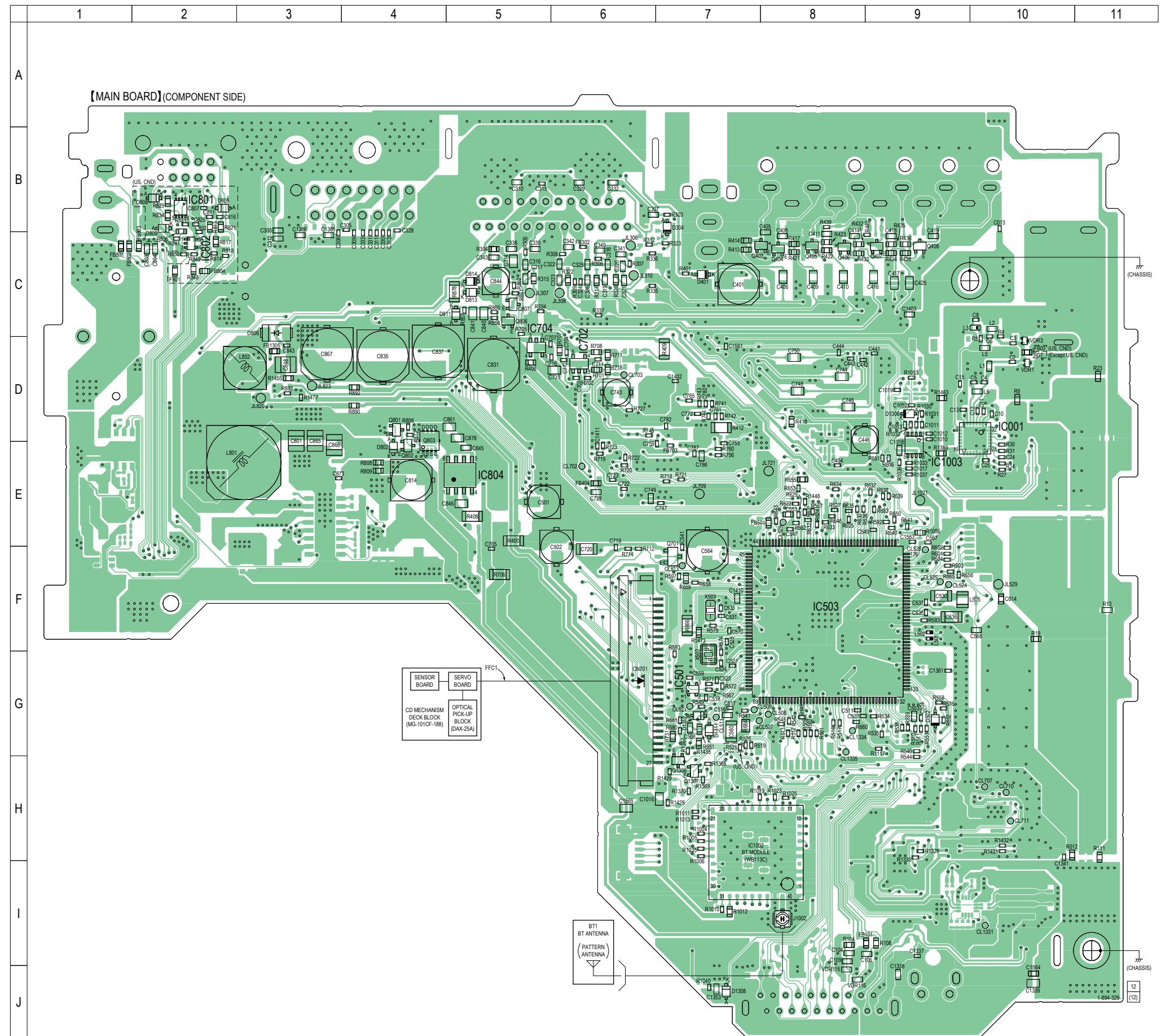
Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

• Waveforms

— MAIN Board —



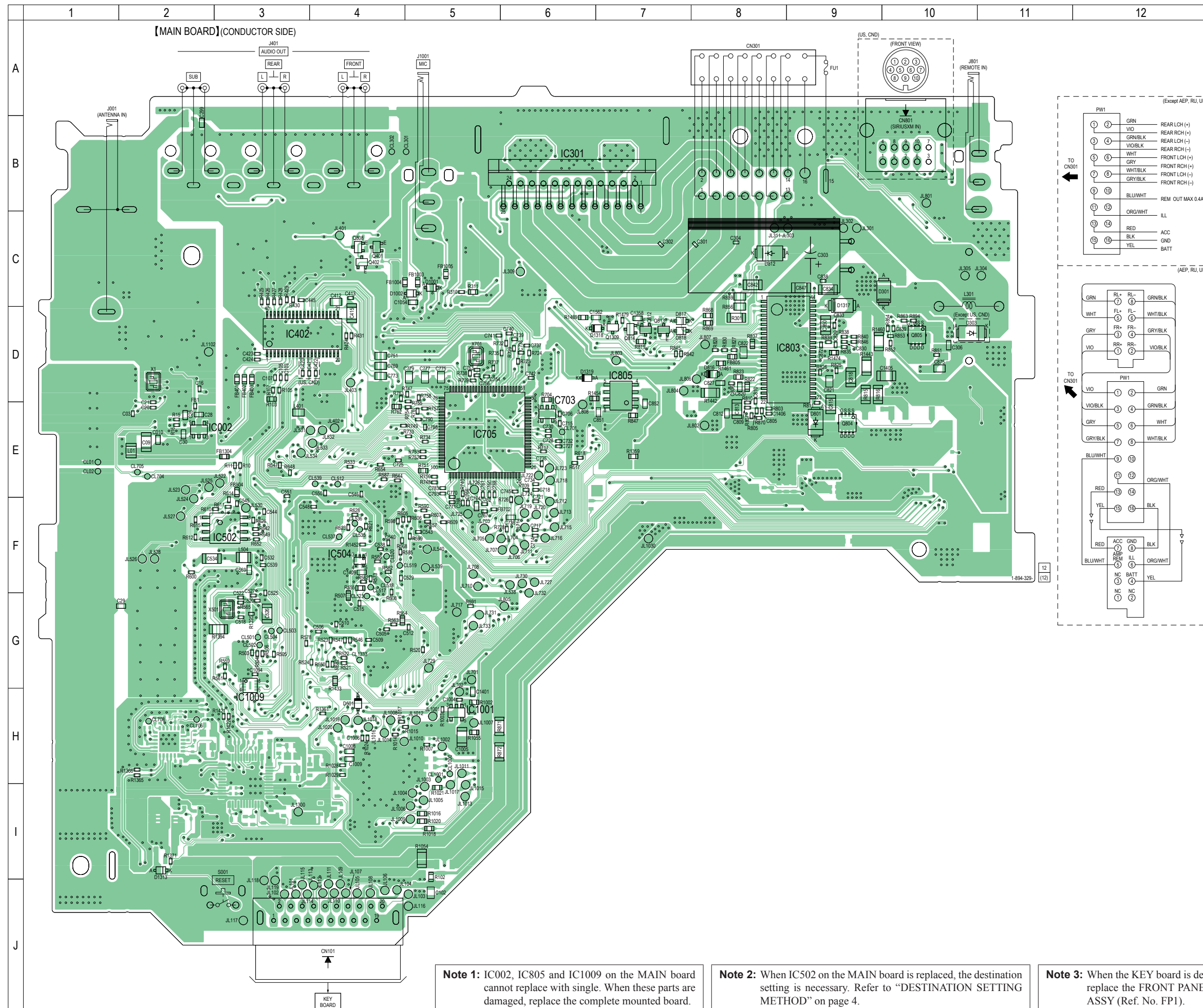
5-4. PRINTED WIRING BOARDS - MAIN Section (1/2) - •  : Uses unleaded solder.



Note 1: IC001, IC804 and IC1002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

5-5. PRINTED WIRING BOARDS - MAIN Section (2/2) -  : Uses unleaded solder.

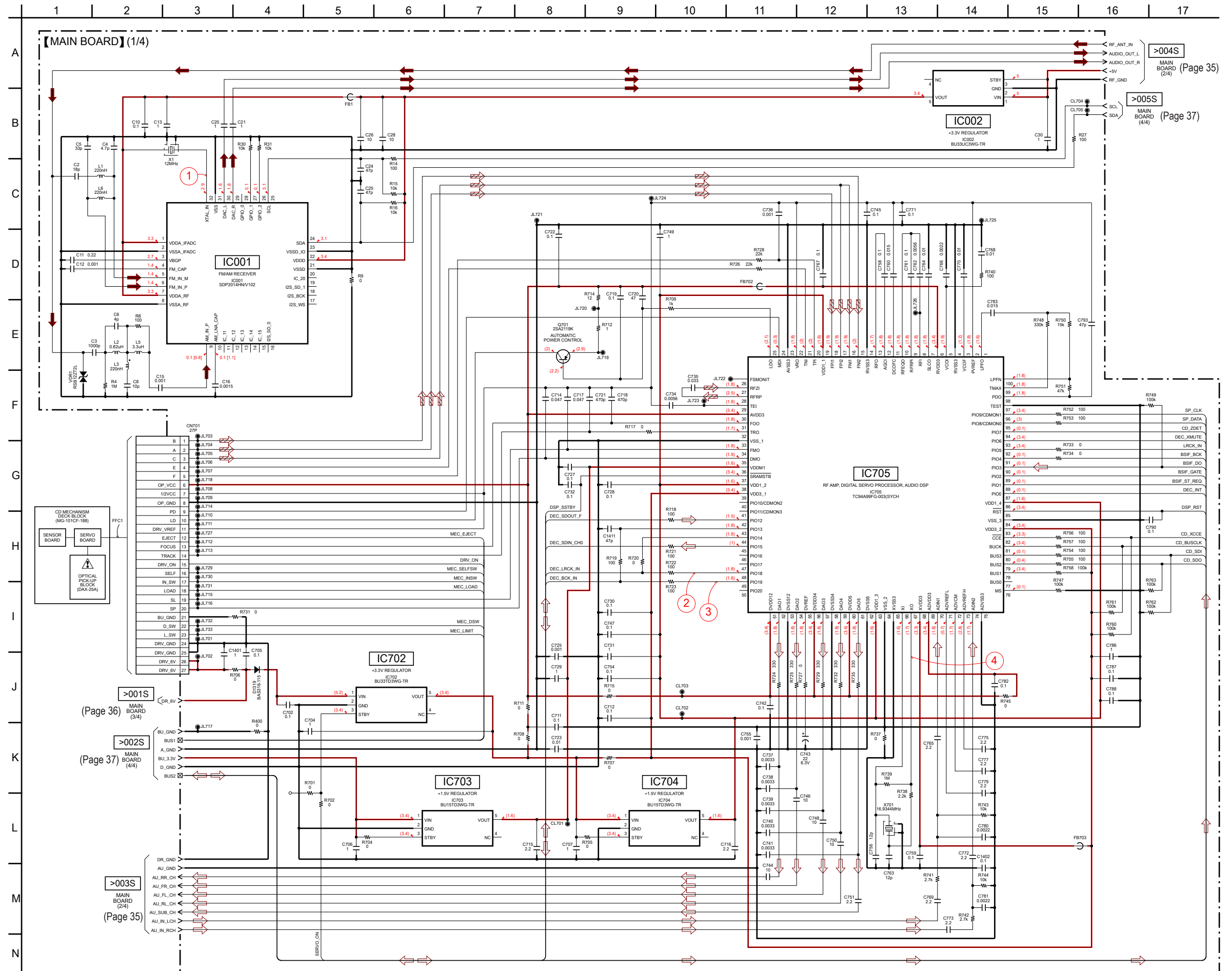


Note 1: IC002, IC805 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4.

Note 3: When the KEY board is defective, replace the FRONT PANEL (SV) ASSY (Ref. No. FP1).

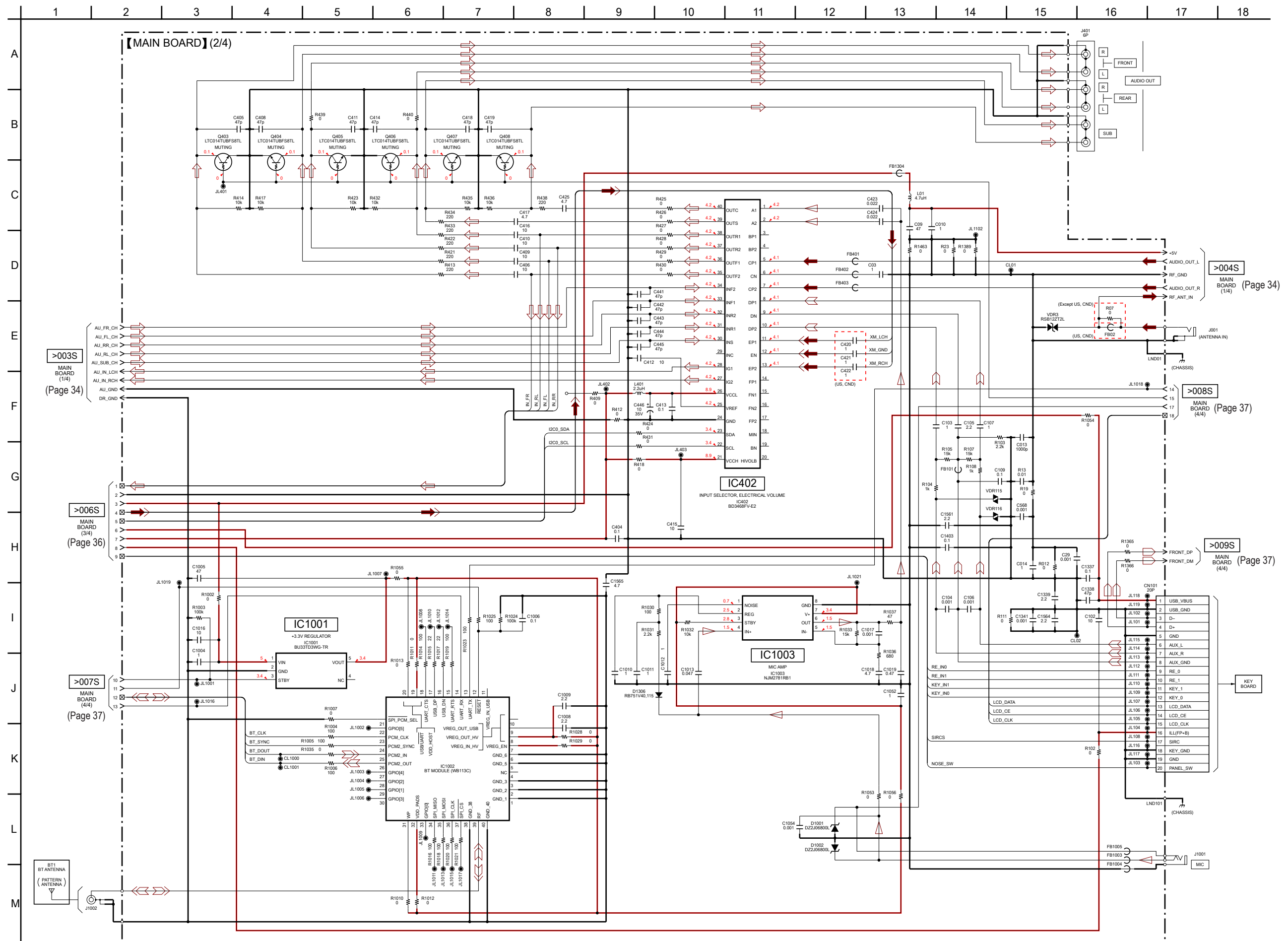
5-6. SCHEMATIC DIAGRAM - MAIN Section (1/4) - • See page 31 for Waveforms. • See page 38 for IC Block Diagrams. • See page 39 for IC Pin Function Description.



Note 1: IC001 and IC002 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: The service manual of the mechanism deck, used in this model, has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

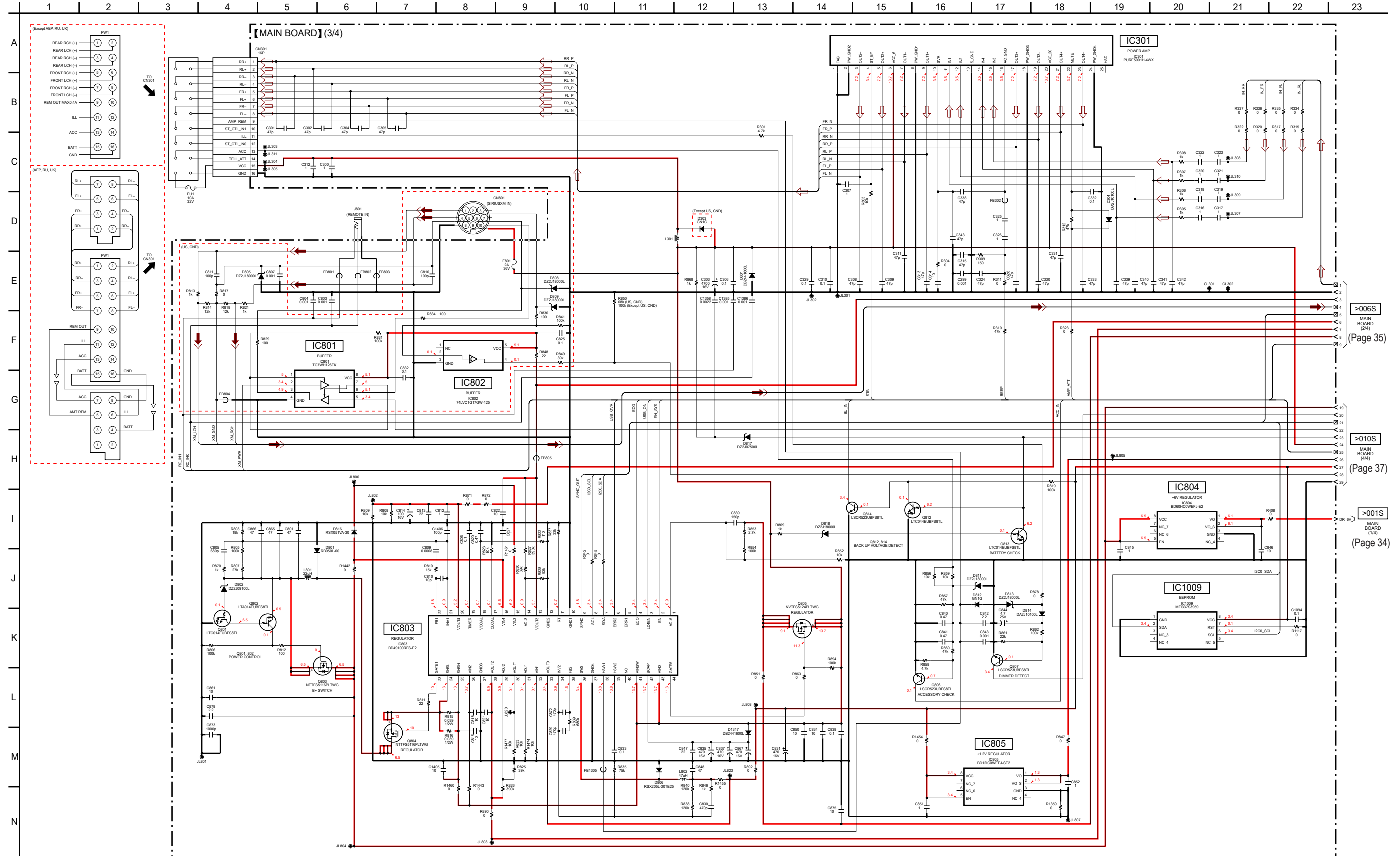
5-7. SCHEMATIC DIAGRAM - MAIN Section (2/4) - See page 38 for IC Block Diagrams.



Note 1: IC1002 on the MAIN board cannot replace with single. When this part is damaged, replace the complete mounted board.

Note 2: When the KEY board is defective, replace the FRONT PANEL (SV) ASSY (Ref. No. FP1).

5-8. SCHEMATIC DIAGRAM - MAIN Section (3/4) - • See page 38 for IC Block Diagrams.



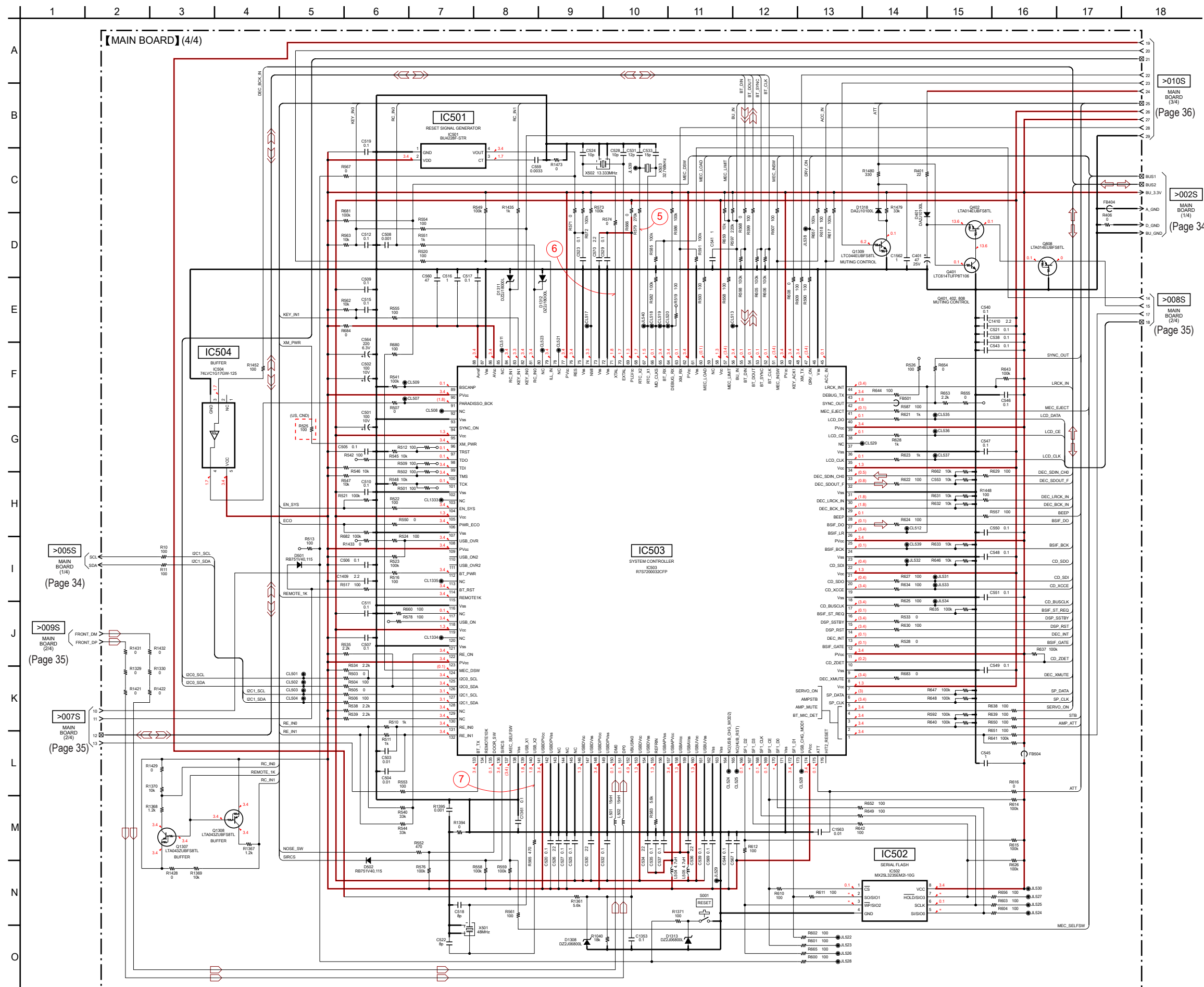
>006S
MAIN BOARD (2/4)
(Page 35)

>010S
MAIN BOARD (4/4)
(Page 37)

>001S
MAIN BOARD (1/4)
(Page 34)

Note: IC804, IC805 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

5-9. SCHEMATIC DIAGRAM - MAIN Section (4/4) - • See page 31 for Waveforms. • See page 38 for IC Block Diagrams. • See page 39 for IC Pin Function Description.



>010S
MAIN BOARD (34)
(Page 36)

>002S
MAIN BOARD (14)
(Page 34)

>008S
MAIN BOARD (24)
(Page 35)

>005S
MAIN BOARD (14)
(Page 34)

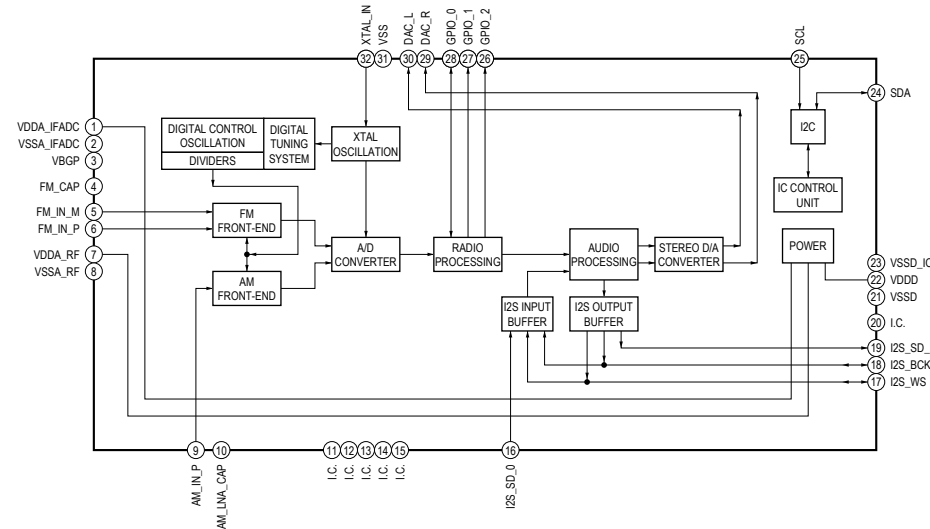
>009S
MAIN BOARD (24)
(Page 35)

>007S
MAIN BOARD (24)
(Page 35)

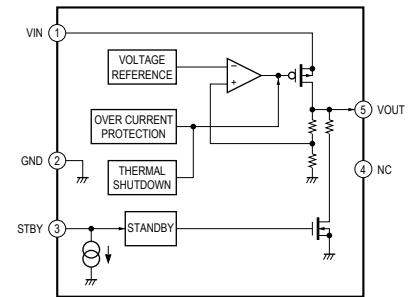
Note: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4.

• IC Block Diagrams

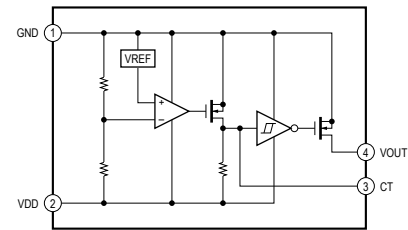
– MAIN Board –
IC001 SDP2014HN/V102



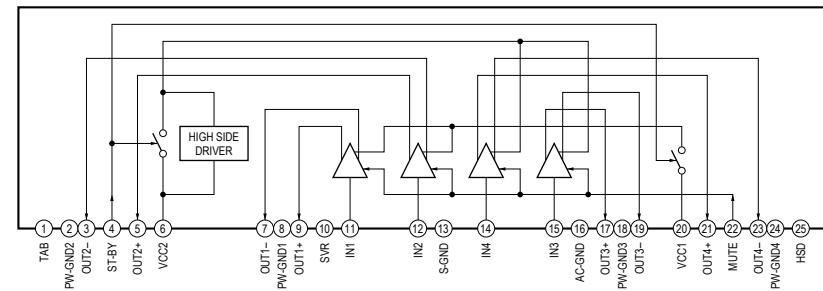
IC002 BU33UC3WG-TR
IC702, 1001 BU33TD3WG-TR
IC703, 704 BU15TD3WG-TR



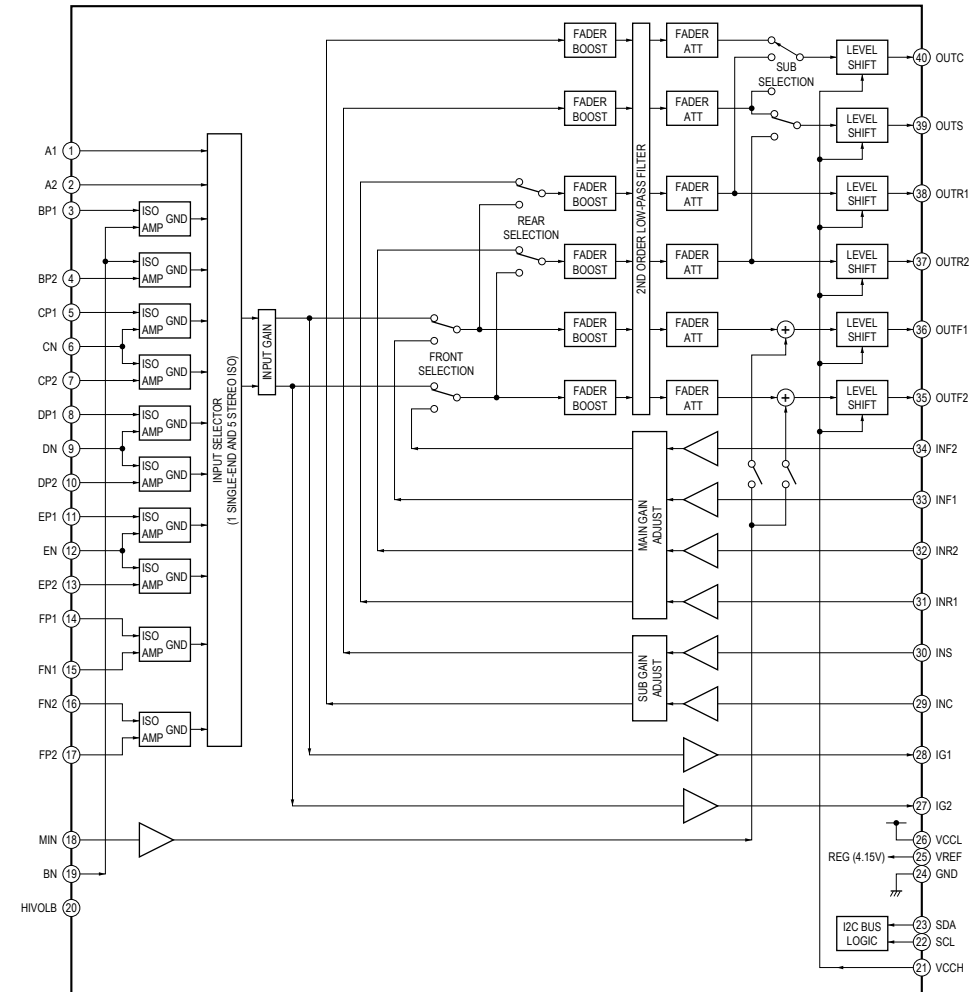
IC501 BU4228F-STR



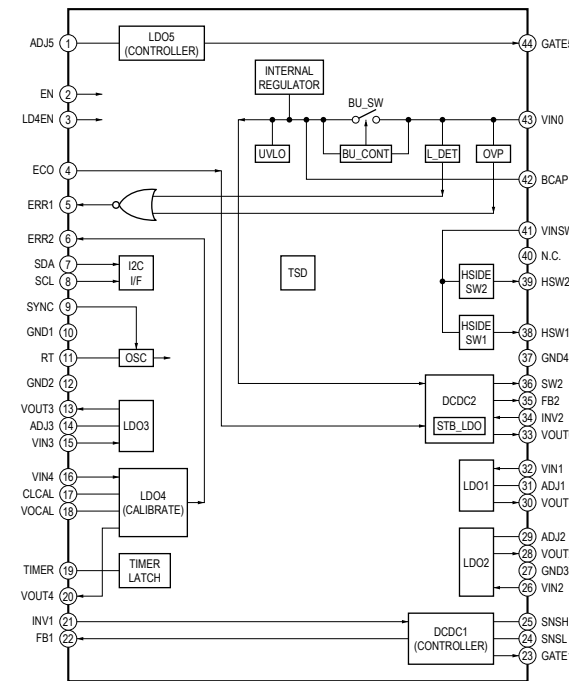
IC301 PURE5001H-4WX



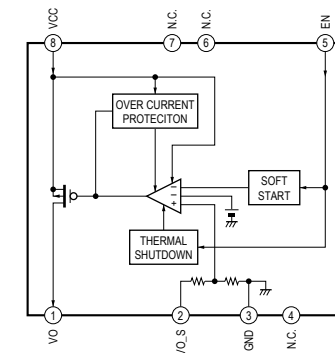
IC402 BD3468FV-E2



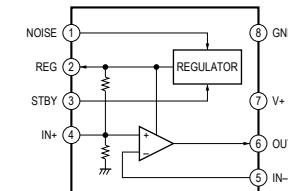
IC803 BD49100RFS-E2



IC804 BD60HC0WEFJ-E2
IC805 BD12IC0WEFJ-SE2



IC1003 NJM2781RB1



• IC Pin Function Description

MAIN BOARD IC503 R7S7200032CFP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	BT_MIC_DET	I	External microphone plug insert detection signal input terminal for the Bluetooth
2	AMP_MUTE	O	Amplifier muting on/off control signal output to the power amplifier "L": 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	Loading motor drive signal (eject direction) output terminal "H": motor on
42	SYNC_OUT	O	Frequency control signal output to the regulator
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	Driver control signal output to the CD mechanism deck block
48	XM_TX	O	Serial data output to the SIRIUSXM in connector (US and Canadian models 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	Disc insert detection switch input terminal
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

MEX-N5100BE/N5100BT/N5150BT

Pin No.	Pin Name	I/O	Description
57	MEC_LIMIT	I	Limit in detection switch input terminal
58	Vcc	-	Power supply terminal (+1.18V) (for internal)
59	NC	-	Not used
60	MEC_LOAD	O	Loading motor drive signal (loading direction) output terminal "H": motor on
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 (US and Canadian models 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	NC	-	Not used
79	ILL_IN	I	Illuminate line detection signal input terminal
80	NC	-	Not used
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	NC	-	Not used
86	AVcc	-	Power supply terminal (+3.3V) (analog system)
87	Vss	-	Ground terminal
88	Avref	-	Reference power supply (+3.3V) input terminal (analog system)
89	BSCANP	I	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	SYNC_ON	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 (US and Canadian models 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	NC	-	Not used
104	EN_SYS	O	Power on/off control signal output to the regulator "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 "L": over current
109	PVcc	-	Power supply terminal (+3.3V) (for I/O)
110	USB_ON2	O	USB power on/off control signal output terminal Not used
111	USB_OVR2	I	USB over current detection signal input terminal Not used
112	BT_PWR	O	Power on/off control signal output terminal for the Bluetooth section "H": power on
113	NC	-	Not used
114	BT_RST	O	Reset signal output to the BT module "L": reset
115	REMOTE1K	O	Rotary commander key control signal output terminal
116	Vss	-	Ground terminal

Pin No.	Pin Name	I/O	Description
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	NC	-	Not used
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	Chucking end detection switch input terminal
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, 130	NC	-	Not used
131, 132	RE_IN0, RE_IN1	I	Jog dial pulse input from the rotary encoder
133	BT_TX	O	Serial data output to the BT module
134	REMOTE10K	O	Rotary commander key control signal output terminal 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_SELFSW	I	Self loading position detection switch input terminal
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 connector
151	DP0	I/O	Two-way USB data (+) bus with the USB connector
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	USBUVcc	-	Power supply terminal (+1.18V) (for USB 48 MHz)
161	USBUVss	-	Ground terminal (for USB 48 MHz)
162, 163	Vss	-	Ground terminal
164	NC (USB_CHG_MOD2)	-	Not used
165	NC (HUB_RST)	-	Not used
166	SF1_D2	O	Write protect signal output to the serial flash
167	SF1_D3	O	Hold signal output to the serial flash
168	SF1_CLK	O	Serial data transfer clock signal output to the serial flash
169	SF1_CE	O	Chip select signal output to the serial flash
170	SF1_D0	O	Serial data output to the serial flash
171	Vss	-	Ground terminal
172	SF1_D1	I	Serial data input from the serial flash
173	USB_CHG_MOD1	O	USB charge control signal output terminal Not used
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	HIT2_RESET	O	Reset signal output terminal Not used

MEX-N5100BE/N5100BT/N5150BT

MAIN BOARD IC705 TC94A99FG-003 (SYCH (RF AMP, DIGITAL SERVO PROCESSOR, 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
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	FNI2	I	Main beam (B) input from the CD mechanism deck block
16, 17	FNI1, FPI2	I	Main beam (C) input from the CD mechanism deck block
18	FPI1	I	Main beam (A) input from the CD mechanism deck block
19	VDD1_1	-	Power supply terminal (+1.5V)
20	TPI	I	Sub beam (F) input from the CD mechanism deck block
21	TNI	I	Sub beam (E) input from the CD mechanism deck block
22	VRO	O	Reference voltage (+1.65V) output to the CD mechanism deck block
23	AVSS3	-	Ground terminal
24	MDI	I	Laser power detection signal input from the CD mechanism deck block
25	LDO	O	Laser power control signal output to the CD mechanism deck block
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	Focus coil control signal output to the CD mechanism deck block
32	TRO	O	Tracking coil control signal output to the CD mechanism deck block
33	VSS_1	-	Ground terminal
34	FMO	O	Sled motor control signal output to the CD mechanism deck block
35	DMO	O	Spindle motor control signal output to the CD mechanism deck block
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)

Pin No.	Pin Name	I/O	Description
61	DAO5	O	Audio signal (sub-ch) output to the electrical volume
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

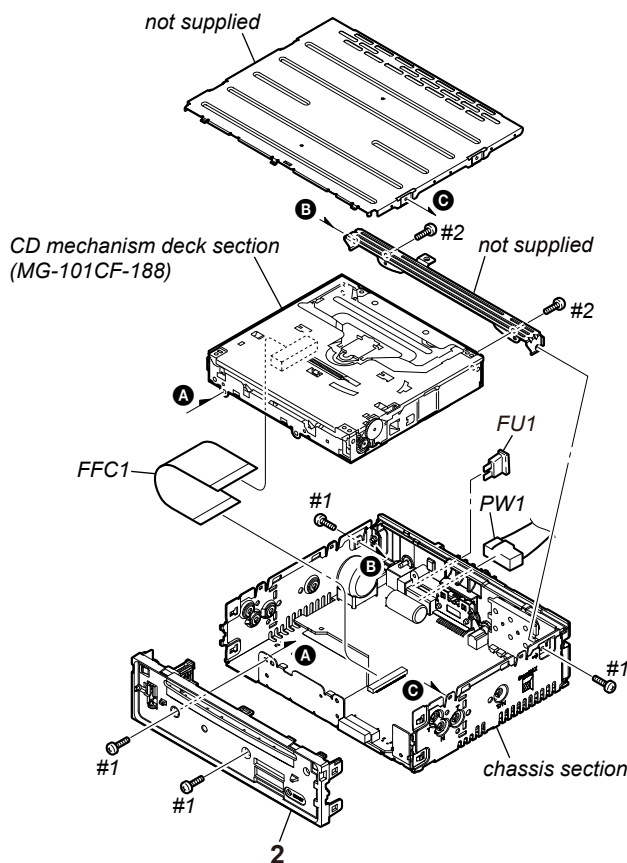
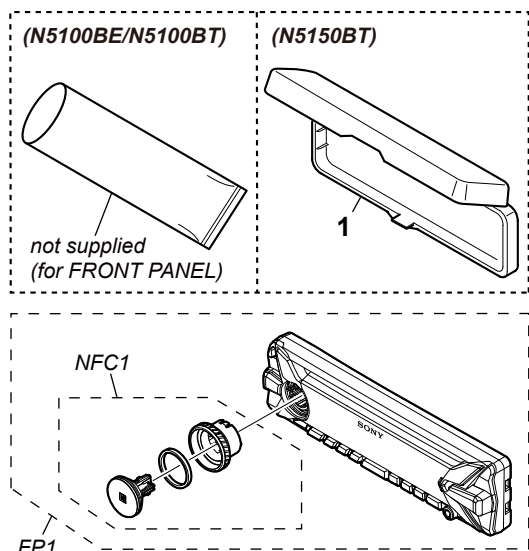
**SECTION 6
EXPLODED VIEWS**

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. SUB PANEL SECTION



Note 1: The service manual of the mechanism deck, used in this model has been issued in a separate volume. Please refer to the service manual of the MG-101 series for the mechanism deck information.

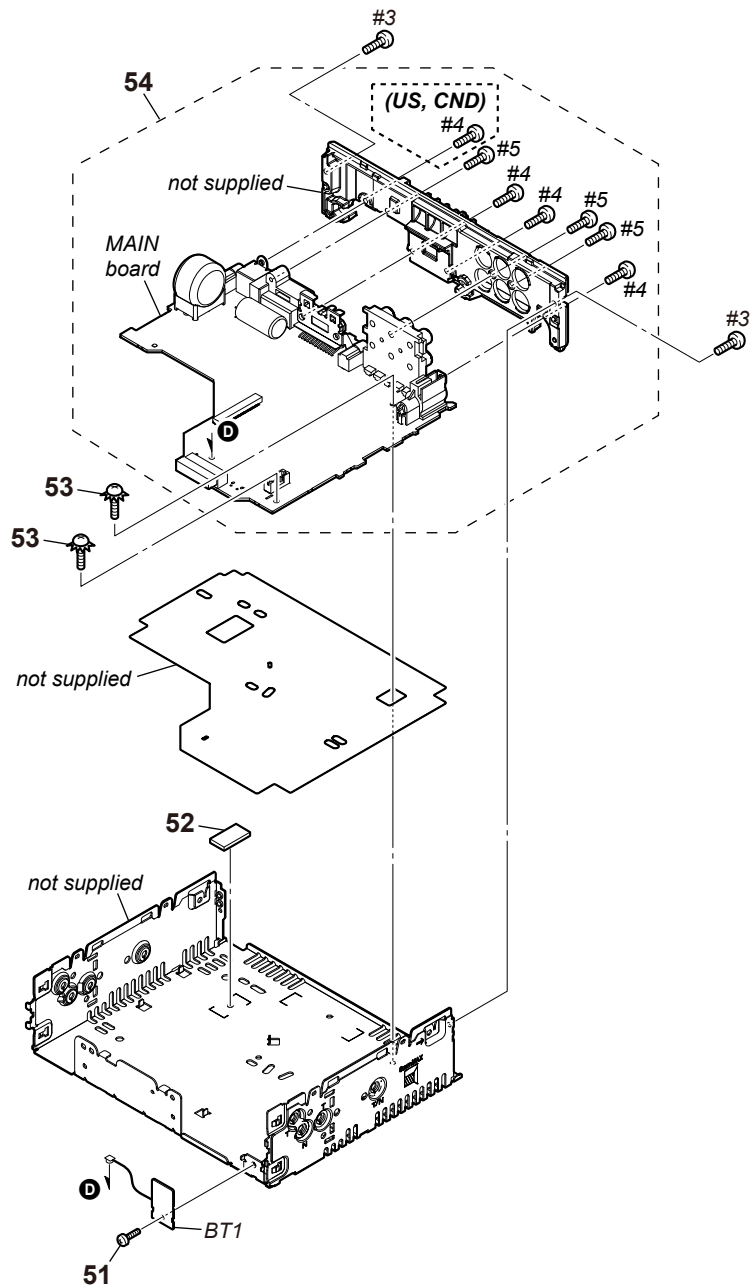
Note 3: When the front panel (SV) assy is replaced, the Bluetooth information writing and affixing of label (serial number) is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8 and "AFFIXING OF LABEL (SERIAL NUMBER)" on page 12.

Note 2: When the knob (VOL) (SV) assy is replaced, Bluetooth information writing is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

Ref. No.	Part No.	Description	Remark
1	X-2187-544-5	CASE ASSY (N5150BT)	
2	X-2590-421-1	PANEL ASSY, SUB	
FFC1	1-846-819-41	CABLE FLEXIBLE FLAT (27 CORE)	(Length: 80 mm)
FP1	A-2063-459-A	PANEL (SV) ASSY, FRONT (N5100BT: US, CND)	(See Note 3)
FP1	A-2063-460-A	PANEL (SV) ASSY, FRONT (N5100BT: AEP, UK)	(See Note 3)
FP1	A-2063-461-A	PANEL (SV) ASSY, FRONT (N5100BE)	(See Note 3)

Ref. No.	Part No.	Description	Remark
FP1	A-2063-462-A	PANEL (SV) ASSY, FRONT (N5150BT)	(See Note 3)
FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)	
NFC1	X-2591-157-1	KNOB (VOL) (SV) ASSY (See Note 2)	
PW1	1-846-033-11	CONNECTION CABLE (ISO) (POWER CORD)	(AEP, RU, UK)
PW1	1-846-979-11	CONNECTION CABLE, AUTOMOBILE (POWER CORD) (Except AEP, RU, UK)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	

6-2. CHASSIS SECTION



Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to “DESTINATION SETTING METHOD” on page 4, “BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE” on page 7 and “BLUETOOTH INFORMATION WRITING METHOD” on page 8.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-042-244-01	SCREW (T)		BT1	1-754-894-21	BT, ANTENNA	
52	4-548-823-01	SHEET HEAT TRANSFER		#3	7-685-793-01	SCREW +PTT 2.6X8 (S)	
53	4-410-504-01	SCREW (+PTT 2.6X6), GROUND POINT		#4	7-685-794-01	SCREW +PTT 2.6X10 (S)	
54	A-2063-242-A	MAIN BOARD, COMPLETE (US, CND) (See Note)		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
54	A-2063-243-A	MAIN BOARD, COMPLETE (Except US, CND) (See Note)					

SECTION 7 ELECTRICAL PARTS LIST

KEY **MAIN**

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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		KEY BOARD *****		* C107	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
				C109	1-118-347-11	CERAMIC CHIP 0.1uF	10% 25V
				C299	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V
				C300	1-118-039-11	CERAMIC CHIP 1uF	10% 25V
				C301	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C302	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C303	1-112-839-11	ELECT 4700uF	20% 16V
				C304	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C305	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C306	1-118-361-11	CERAMIC CHIP 0.1uF	10% 50V
				* C307	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				C308	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C309	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C310	1-118-347-11	CERAMIC CHIP 0.1uF	10% 25V
				C311	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C312	1-118-039-11	CERAMIC CHIP 1uF	10% 25V
				C313	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C314	1-118-930-11	CERAMIC CHIP 10uF	10% 10V
				C315	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				* C316	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C317	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C318	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C319	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C320	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C321	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C322	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C323	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				C324	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				* C325	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				* C326	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
				C328	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C329	1-118-347-11	CERAMIC CHIP 0.1uF	10% 25V
				C330	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C331	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C332	1-118-361-11	CERAMIC CHIP 0.1uF	10% 50V
				C333	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
				C338	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C339	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C340	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C341	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C342	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C343	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C401	1-128-992-21	ELECT CHIP 47uF	20% 25V
				C404	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
				C405	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
A-2063-242-A	MAIN BOARD, COMPLETE (US, CND)	(See Note)					
A-2063-243-A	MAIN BOARD, COMPLETE (Except US, CND)	(See Note)					

7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT						
7-685-794-01	SCREW +PTT 2.6X10 (S)						
		< CAPACITOR/RESISTOR >					
C2	1-116-153-11	CERAMIC CHIP 18PF	1% 50V				
C3	1-112-692-11	CERAMIC CHIP 1000PF	5% 50V				
* C03	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V				
C4	1-116-385-81	CERAMIC CHIP 4.7PF	0.1P 50V				
C5	1-116-194-81	CERAMIC CHIP 33PF	1% 50V				
C6	1-164-844-11	CERAMIC CHIP 4PF	0.25PF 50V				
C8	1-164-850-11	CERAMIC CHIP 10PF	0.5PF 50V				
C09	1-116-707-11	CERAMIC CHIP 47uF	20% 10V				
* C010	1-116-735-11	CERAMIC CHIP 1uF	10% 16V				
C10	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V				
C11	1-116-745-11	CERAMIC CHIP 0.22uF	10% 6.3V				
C12	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V				
C013	1-112-692-11	CERAMIC CHIP 1000PF	5% 50V				
C13	1-116-737-11	CERAMIC CHIP 1uF	20% 10V				
* C014	1-116-735-11	CERAMIC CHIP 1uF	10% 16V				
C15	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V				
* C16	1-118-401-11	CERAMIC CHIP 0.0015uF	10% 50V				
C20	1-116-737-11	CERAMIC CHIP 1uF	20% 10V				
C21	1-116-737-11	CERAMIC CHIP 1uF	20% 10V				
C24	1-164-866-11	CERAMIC CHIP 47PF	5% 50V				
C25	1-164-866-11	CERAMIC CHIP 47PF	5% 50V				
* C26	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V				
* C28	1-116-720-11	CERAMIC CHIP 10uF	20% 6.3V				
C29	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V				
C30	1-165-908-11	CERAMIC CHIP 1uF	10% 10V				
C102	1-116-716-11	CERAMIC CHIP 10uF	10% 16V				
* C103	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V				
C104	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V				
C105	1-118-477-11	CERAMIC CHIP 2.2uF	10% 6.3V				
C106	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V				

Note: When the complete MAIN board is replaced, it is necessary to replace knob (VOL) (SV) assy simultaneously. Also, the destination setting, Bluetooth operation check and Bluetooth information writing is necessary. Refer to "DESTINATION SETTING METHOD" on page 4, "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 and "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C406	1-118-047-11	CERAMIC CHIP	10uF	10%	16V	C536	1-116-711-11	CERAMIC CHIP	22uF	20%	16V
C408	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C537	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C409	1-118-047-11	CERAMIC CHIP	10uF	10%	16V	C538	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C410	1-118-047-11	CERAMIC CHIP	10uF	10%	16V	C539	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C540	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C412	1-100-966-91	CERAMIC CHIP	10uF	20%	10V	C541	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C413	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C543	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C414	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C544	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C415	1-116-865-11	CERAMIC CHIP	10uF	10%	25V	C545	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C416	1-118-047-11	CERAMIC CHIP	10uF	10%	16V	C546	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C417	1-116-722-11	CERAMIC CHIP	4.7uF	10%	16V	C547	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C418	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C548	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C419	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C549	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
* C420	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V (US, CND)	C550	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
* C421	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V (US, CND)	C551	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
* C422	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V (US, CND)	C553	1-216-833-11	METAL CHIP	10K	5%	1/10W
C423	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V	C559	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C424	1-118-389-11	CERAMIC CHIP	0.022uF	10%	25V	C560	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
C425	1-116-722-11	CERAMIC CHIP	4.7uF	10%	16V	C564	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C441	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	* C567	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C442	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	C568	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C443	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
C444	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	C570	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
C445	1-164-866-11	CERAMIC CHIP	47PF	5%	50V	C702	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C446	1-114-599-21	ELECT CHIP	10uF	20%	35V	* C704	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C501	1-165-492-21	ELECT CHIP	100uF	20%	10V	C705	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-165-492-21	ELECT CHIP	100uF	20%	10V	* C706	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C503	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	* C707	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
C504	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V	C711	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C712	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C714	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
C507	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C715	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
C508	1-118-290-11	CERAMIC CHIP	0.001uF	10%	50V	C716	1-118-477-11	CERAMIC CHIP	2.2uF	10%	6.3V
C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C717	1-118-388-11	CERAMIC CHIP	0.047uF	10%	25V
C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C718	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C719	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C720	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
C515	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	* C721	1-118-407-11	CERAMIC CHIP	470PF	10%	50V
C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C722	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C723	1-118-459-11	CERAMIC CHIP	0.01uF	10%	25V
C518	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V	C725	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C727	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C728	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C729	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C522	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V	C730	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C731	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
C524	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	C732	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C734	1-118-394-11	CERAMIC CHIP	0.0056uF	10%	50V
C526	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	C735	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C527	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C736	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C528	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V	C737	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
C529	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C738	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
C530	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	C739	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
C531	1-164-852-11	CERAMIC CHIP	12PF	5%	50V	C740	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
C532	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C741	1-118-397-11	CERAMIC CHIP	0.0033uF	10%	50V
C533	1-164-854-11	CERAMIC CHIP	15PF	5%	50V	C742	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-116-711-11	CERAMIC CHIP	22uF	20%	16V	C743	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C535	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V	C744	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
						C745	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
						C746	1-118-047-11	CERAMIC CHIP	10uF	10%	16V

MEX-N5100BE/N5100BT/N5150BT

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C747	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	* C830	1-118-407-11	CERAMIC CHIP 470PF	10% 50V
C748	1-118-047-11	CERAMIC CHIP 10uF	10% 16V	C831	1-100-769-21	ELECT CHIP 470uF	20% 16V
C749	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C832	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C750	1-118-047-11	CERAMIC CHIP 10uF	10% 16V				(US, CND)
C751	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	* C833	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C754	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C834	1-116-865-11	CERAMIC CHIP 10uF	10% 25V
C755	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V				
C756	1-164-852-11	CERAMIC CHIP 12PF	5% 50V	C835	1-100-769-21	ELECT CHIP 470uF	20% 16V
C758	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C837	1-100-769-21	ELECT CHIP 470uF	20% 16V
C759	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	* C838	1-118-035-11	CERAMIC CHIP 0.1uF	10% 25V
C760	1-127-988-81	CERAMIC CHIP 0.015uF	10% 16V	C839	1-164-878-11	CERAMIC CHIP 150PF	5% 50V
C761	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C840	1-116-739-11	CERAMIC CHIP 0.47uF	10% 50V
C762	1-100-579-81	CERAMIC CHIP 0.0056uF	10% 25V	C841	1-116-739-11	CERAMIC CHIP 0.47uF	10% 50V
C763	1-164-852-11	CERAMIC CHIP 12PF	5% 50V	C842	1-114-817-11	CERAMIC CHIP 2.2uF	10% 50V
C764	1-118-345-11	CERAMIC CHIP 0.01uF	10% 25V	C843	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V
C765	1-118-477-11	CERAMIC CHIP 2.2uF	10% 6.3V	C844	1-100-764-21	ELECT CHIP 4.7uF	20% 25V
C766	1-118-399-11	CERAMIC CHIP 0.0022uF	10% 50V	C845	1-116-734-11	CERAMIC CHIP 1uF	20% 16V
C767	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C846	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C768	1-118-459-11	CERAMIC CHIP 0.01uF	10% 25V	C847	1-118-955-11	CERAMIC CHIP 22uF	20% 16V
C769	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C848	1-116-705-11	CERAMIC CHIP 47uF	20% 16V
C770	1-118-459-11	CERAMIC CHIP 0.01uF	10% 25V	C850	1-116-865-11	CERAMIC CHIP 10uF	10% 25V
C771	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	* C851	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
C772	1-118-477-11	CERAMIC CHIP 2.2uF	10% 6.3V	* C852	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
C773	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C861	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C775	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C865	1-116-705-11	CERAMIC CHIP 47uF	20% 16V
C777	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C866	1-116-705-11	CERAMIC CHIP 47uF	20% 16V
C779	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C867	1-100-769-21	ELECT CHIP 470uF	20% 16V
C780	1-118-399-11	CERAMIC CHIP 0.0022uF	10% 50V	* C872	1-118-407-11	CERAMIC CHIP 470PF	10% 50V
C781	1-118-399-11	CERAMIC CHIP 0.0022uF	10% 50V	C873	1-112-692-11	CERAMIC CHIP 1000PF	5% 50V
C782	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C875	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C783	1-127-988-81	CERAMIC CHIP 0.015uF	10% 16V	C878	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V
C786	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C1004	1-116-737-11	CERAMIC CHIP 1uF	20% 10V
C787	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C1005	1-116-707-11	CERAMIC CHIP 47uF	20% 10V
C788	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C1006	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C790	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C1008	1-118-040-11	CERAMIC CHIP 2.2uF	10% 16V
C793	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C1009	1-118-040-11	CERAMIC CHIP 2.2uF	10% 16V
C801	1-116-705-11	CERAMIC CHIP 47uF	20% 16V	* C1010	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
C803	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V	* C1011	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
C804	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V	* C1012	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
C805	1-118-405-11	CERAMIC CHIP 680PF	10% 50V	C1013	1-118-388-11	CERAMIC CHIP 0.047uF	10% 25V
C806	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C1016	1-116-716-11	CERAMIC CHIP 10uF	10% 16V
C807	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V	C1017	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V
			(US, CND)	C1018	1-116-724-11	CERAMIC CHIP 4.7uF	20% 6.3V
C809	1-118-393-11	CERAMIC CHIP 0.0068uF	10% 50V	C1019	1-116-741-11	CERAMIC CHIP 0.47uF	20% 10V
C810	1-164-850-11	CERAMIC CHIP 10PF	0.5PF 50V	* C1052	1-116-738-11	CERAMIC CHIP 1uF	10% 6.3V
C811	1-164-874-11	CERAMIC CHIP 100PF	5% 50V	C1054	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V
			(US, CND)	C1094	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
* C812	1-116-735-11	CERAMIC CHIP 1uF	10% 16V	C1337	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C813	1-116-711-11	CERAMIC CHIP 22uF	20% 16V	C1338	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C814	1-117-681-11	ELECT CHIP 100uF	20% 16V	C1339	1-118-045-11	CERAMIC CHIP 2.2uF	10% 25V
C815	1-116-865-11	CERAMIC CHIP 10uF	10% 25V	C1341	1-118-403-11	CERAMIC CHIP 0.001uF	10% 50V
C816	1-164-874-11	CERAMIC CHIP 100PF	5% 50V	C1353	1-118-361-11	CERAMIC CHIP 0.1uF	10% 50V
			(US, CND)	C1358	1-162-966-91	CERAMIC CHIP 0.0022uF	10% 50V
C818	1-116-865-11	CERAMIC CHIP 10uF	10% 25V	C1361	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
C820	1-116-740-11	CERAMIC CHIP 0.47uF	10% 16V	C1385	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V
C821	1-116-716-11	CERAMIC CHIP 10uF	10% 16V	C1386	1-118-290-11	CERAMIC CHIP 0.001uF	10% 50V
C822	1-116-716-11	CERAMIC CHIP 10uF	10% 16V	* C1401	1-116-735-11	CERAMIC CHIP 1uF	10% 16V
C825	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V	C1402	1-118-386-11	CERAMIC CHIP 0.1uF	10% 16V
			(US, CND)	C1403	1-118-347-11	CERAMIC CHIP 0.1uF	10% 25V
C827	1-116-734-11	CERAMIC CHIP 1uF	20% 16V	C1405	1-118-359-11	CERAMIC CHIP 10uF	10% 16V
* C829	1-118-407-11	CERAMIC CHIP 470PF	10% 50V	C1406	1-164-874-11	CERAMIC CHIP 100PF	5% 50V
				C1409	1-118-040-11	CERAMIC CHIP 2.2uF	10% 16V

Ref. No.	Part No.	Description	Remark
C1410	1-118-040-11	CERAMIC CHIP 2.2uF 10%	16V
C1411	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C1561	1-116-732-11	CERAMIC CHIP 2.2uF 20%	6.3V
* C1562	1-116-735-11	CERAMIC CHIP 1uF 10%	16V
C1563	1-118-459-11	CERAMIC CHIP 0.01uF 10%	25V
C1564	1-118-040-11	CERAMIC CHIP 2.2uF 10%	16V
C1565	1-116-722-11	CERAMIC CHIP 4.7uF 10%	16V
< CONNECTOR >			
CN101	1-842-266-22	SOCKET, CONNECTOR 20P	
CN301	1-843-330-11	PIN, CONNECTOR 16P	
CN701	1-843-775-11	CONNECTOR, FFC/FPC (ZIF) 27P	
CN801	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (US, CND)	
< DIODE >			
D301	6-503-548-01	DIODE DB2441600L	
D303	6-503-238-01	DIODE GN1G (Except US, CND)	
D304	6-502-961-01	DIODE DA2J10100L	
D401	6-502-961-01	DIODE DA2J10100L	
D501	6-503-759-01	DIODE RB751V40, 115	
D502	6-503-759-01	DIODE RB751V40, 115	
D801	6-504-041-01	DIODE RB050L-60	
D802	6-502-972-01	DIODE DZ2J09100L	
D805	6-503-031-01	DIODE DZ2J18000L (US, CND)	
* D806	6-503-973-01	DIODE RSX205L-30TE25	
D808	6-503-031-01	DIODE DZ2J18000L (US, CND)	
D809	6-503-031-01	DIODE DZ2J18000L (US, CND)	
D811	6-503-031-01	DIODE DZ2J18000L	
D812	6-503-238-01	DIODE GN1G	
D813	6-503-031-01	DIODE DZ2J18000L	
D814	6-502-961-01	DIODE DA2J10100L	
D816	6-504-047-01	DIODE RSX051VA-30	
D817	6-503-016-01	DIODE DZ2J07500L	
D818	6-503-031-01	DIODE DZ2J18000L	
D1001	6-502-969-01	DIODE DZ2J06800L	
D1002	6-502-969-01	DIODE DZ2J06800L	
D1306	6-503-759-01	DIODE RB751V40, 115	
D1308	6-502-969-01	DIODE DZ2J06800L	
D1311	6-503-031-01	DIODE DZ2J18000L	
D1312	6-503-031-01	DIODE DZ2J18000L	
D1313	6-502-969-01	DIODE DZ2J06800L	
D1317	6-503-548-01	DIODE DB2441600L	
D1318	6-502-961-01	DIODE DA2J10100L	
D1319	8-719-074-43	DIODE BAS316-115	
< FUSE >			
F801	1-576-415-11	FUSE (2A/ 32 V) (US, CND)	
< FERRITE BEAD >			
FB1	1-481-912-21	EMI FERRITE (SMD) (1005)	
FB02	1-400-334-21	FERRITE, EMI (SMD) (1608) (US, CND)	
FB101	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB302	1-481-746-11	SDM EMI FERRITE	
FB401	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB402	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB403	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB404	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB501	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB504	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	

Ref. No.	Part No.	Description	Remark
FB702	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB703	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB804	1-500-113-22	BEAD, FERRITE (CHIP) (1608) (US, CND)	
FB805	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1003	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1004	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1005	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB1304	1-469-094-21	FERRITE, EMI (SMD) (1608)	
FB1305	1-481-396-21	FERRITE, EMI (SMD) (1608)	
< IC/BT MODULE >			
IC001	(Not supplied)	IC SDP2014HN/V102 (See Note 1)	
IC002	(Not supplied)	IC BU33UC3WG-TR (See Note 1)	
IC301	6-720-774-01	IC PURE5001H-4WX	
IC402	6-721-168-01	IC BD3468FV-E2	
IC501	6-719-855-01	IC BU4228F-STR	
IC502	6-722-094-01	IC MX25L3235EM2I-10G-A06 (SV) (See Note 2)	
IC503	6-721-341-01	IC R7S7200032CFP	
IC504	6-710-376-01	IC 74LVC1G17GW-125	
IC702	6-717-694-01	IC BU33TD3WG-TR	
IC703	6-716-355-01	IC BU15TD3WG-TR	
IC704	6-716-355-01	IC BU15TD3WG-TR	
IC705	6-715-712-11	IC TC94A99FG-003 (SYCH)	
IC801	6-709-182-01	IC TC7WH126FK (US, CND)	
IC802	6-710-376-01	IC 74LVC1G17GW-125 (US, CND)	
IC803	6-721-184-01	IC BD49100RFS-E2	
IC804	(Not supplied)	IC BD60HC0WEFJ-E2 (See Note 1)	
IC805	(Not supplied)	IC BD12IC0WEFJ-SE2 (See Note 1)	
IC1001	6-717-694-01	IC BU33TD3WG-TR	
IC1002	(Not supplied)	BT MODULE (WB113C) (See Note 1)	
IC1003	6-703-863-01	IC NJM2781RB1	
IC1009	(Not supplied)	IC MFI337S3959 (See Note 1)	
< JACK >			
J001	1-843-791-11	JACK (ANT) (ANTENNA IN)	
J401	1-822-714-21	JACK, PIN 6P (AUDIO OUT FRONT/REAT/SUB)	
J801	1-566-822-81	JACK (REMOTE IN)	
J1001	1-566-822-91	JACK (MIC)	
J1002	1-821-559-11	CONNECTOR, COAXIAL (SMT TYPE)	
< COIL >			
L01	1-400-073-21	INDUCTOR 4.7uH	
L1	1-469-293-21	INDUCTOR 220nH	
L2	1-412-978-41	INDUCTOR 0.82uH	
L3	1-481-330-21	INDUCTOR 220nH	
L5	1-412-985-31	INDUCTOR 3.3uH	
L6	1-469-293-21	INDUCTOR 220nH	
L301	1-456-617-11	COIL, CHOKE	
L401	1-469-844-11	INDUCTOR 2.2uH	
L501	1-414-842-21	INDUCTOR 15nH	
L502	1-414-842-21	INDUCTOR 15nH	
L504	1-400-073-21	INDUCTOR 4.7uH	
L505	1-400-073-21	INDUCTOR 4.7uH	
L801	1-460-704-11	COIL, CHOKE 22uH	
L802	1-481-904-11	INDUCTOR 47uH	

Note 1: IC001, IC002, IC804, IC805, IC1002 and IC1009 on the MAIN board cannot replace with single. When these parts are damaged, replace the complete mounted board.

Note 2: When IC502 on the MAIN board is replaced, the destination setting is necessary. Refer to "DESTINATION SETTING METHOD" on page 4.

MEX-N5100BE/N5100BT/N5150BT

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSISTOR >				R315	1-216-864-11	SHORT CHIP	0
Q401	6-551-970-01	TRANSISTOR	LTC614TUF8T106	R317	1-216-864-11	SHORT CHIP	0
Q402	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL	R320	1-216-864-11	SHORT CHIP	0
Q403	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R322	1-216-864-11	SHORT CHIP	0
Q404	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R323	1-218-990-81	SHORT CHIP	0
Q405	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R334	1-218-990-81	SHORT CHIP	0
Q406	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R335	1-218-990-81	SHORT CHIP	0
Q407	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R336	1-218-990-81	SHORT CHIP	0
Q408	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R337	1-218-990-81	SHORT CHIP	0
Q701	6-551-120-01	TRANSISTOR	2SA2119K	R400	1-216-296-11	SHORT CHIP	0
Q801	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL	R401	1-218-933-11	METAL CHIP	22 5% 1/16W
Q802	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL	R406	1-216-864-11	SHORT CHIP	0
Q803	6-553-498-01	FET	NTTFS5116PLTWG	R408	1-216-296-11	SHORT CHIP	0
Q804	6-553-498-01	FET	NTTFS5116PLTWG	R409	1-216-296-11	SHORT CHIP	0
Q805	6-553-497-01	FET	NVTFS5124PLTWG	R412	1-216-296-11	SHORT CHIP	0
Q806	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R413	1-250-600-11	METAL CHIP	220 1% 1/10W
Q807	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R414	1-250-640-11	METAL CHIP	10K 1% 1/10W
Q808	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL	R417	1-250-640-11	METAL CHIP	10K 1% 1/10W
Q812	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL	R418	1-216-864-11	SHORT CHIP	0
Q813	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL	R421	1-250-600-11	METAL CHIP	220 1% 1/10W
Q814	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R422	1-250-600-11	METAL CHIP	220 1% 1/10W
Q1307	6-552-933-01	TRANSISTOR	LTA043ZUBFS8TL	R423	1-250-640-11	METAL CHIP	10K 1% 1/10W
Q1308	6-552-933-01	TRANSISTOR	LTA043ZUBFS8TL	R424	1-218-990-81	SHORT CHIP	0
Q1309	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL	R425	1-218-990-81	SHORT CHIP	0
< RESISTOR/CAPACITOR >				R426	1-218-990-81	SHORT CHIP	0
R4	1-218-989-11	METAL CHIP	1M 5% 1/16W	R427	1-218-990-81	SHORT CHIP	0
R07	1-216-864-11	SHORT CHIP	0 (Except US, CND)	R428	1-218-990-81	SHORT CHIP	0
R8	1-218-941-81	METAL CHIP	100 5% 1/16W	R429	1-218-990-81	SHORT CHIP	0
R9	1-216-864-11	SHORT CHIP	0	R430	1-218-990-81	SHORT CHIP	0
R10	1-218-941-81	METAL CHIP	100 5% 1/16W	R431	1-218-990-81	SHORT CHIP	0
R11	1-218-941-81	METAL CHIP	100 5% 1/16W	R432	1-250-640-11	METAL CHIP	10K 1% 1/10W
R012	1-216-864-11	SHORT CHIP	0	R433	1-250-600-11	METAL CHIP	220 1% 1/10W
R13	1-118-345-11	CERAMIC CHIP	0.01uF 10% 25V	R434	1-250-600-11	METAL CHIP	220 1% 1/10W
R14	1-218-941-81	METAL CHIP	100 5% 1/16W	R435	1-250-640-11	METAL CHIP	10K 1% 1/10W
R15	1-218-965-11	METAL CHIP	10K 5% 1/16W	R436	1-250-640-11	METAL CHIP	10K 1% 1/10W
R16	1-218-965-11	METAL CHIP	10K 5% 1/16W	R438	1-250-600-11	METAL CHIP	220 1% 1/10W
R19	1-216-864-11	SHORT CHIP	0	R439	1-218-990-81	SHORT CHIP	0
R23	1-216-864-11	SHORT CHIP	0	R440	1-218-990-81	SHORT CHIP	0
R27	1-218-941-81	METAL CHIP	100 5% 1/16W	R501	1-218-941-81	METAL CHIP	100 5% 1/16W
R30	1-218-965-11	METAL CHIP	10K 5% 1/16W	R502	1-218-941-81	METAL CHIP	100 5% 1/16W
R31	1-218-965-11	METAL CHIP	10K 5% 1/16W	R503	1-218-990-81	SHORT CHIP	0
R102	1-216-864-11	SHORT CHIP	0	R504	1-218-941-81	METAL CHIP	100 5% 1/16W
R103	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R505	1-218-990-81	SHORT CHIP	0
R104	1-216-821-11	METAL CHIP	1K 5% 1/10W	R506	1-218-941-81	METAL CHIP	100 5% 1/16W
R105	1-218-967-11	METAL CHIP	15K 5% 1/16W	R507	1-216-864-11	SHORT CHIP	0
R107	1-218-967-11	METAL CHIP	15K 5% 1/16W	R509	1-218-941-81	METAL CHIP	100 5% 1/16W
R108	1-216-821-11	METAL CHIP	1K 5% 1/10W	R510	1-218-953-11	METAL CHIP	1K 5% 1/16W
R111	1-216-864-11	SHORT CHIP	0	R511	1-218-953-11	METAL CHIP	1K 5% 1/16W
R301	1-216-214-00	METAL CHIP	4.7K 5% 1/8W	R512	1-218-941-81	METAL CHIP	100 5% 1/16W
R303	1-218-965-11	METAL CHIP	10K 5% 1/16W	R513	1-218-941-81	METAL CHIP	100 5% 1/16W
R304	1-216-864-11	SHORT CHIP	0	R516	1-218-941-81	METAL CHIP	100 5% 1/16W
R305	1-218-953-11	METAL CHIP	1K 5% 1/16W	R517	1-218-941-81	METAL CHIP	100 5% 1/16W
R306	1-218-953-11	METAL CHIP	1K 5% 1/16W	R519	1-218-941-81	METAL CHIP	100 5% 1/16W
R307	1-218-953-11	METAL CHIP	1K 5% 1/16W	R520	1-218-941-81	METAL CHIP	100 5% 1/16W
R308	1-218-953-11	METAL CHIP	1K 5% 1/16W	R521	1-218-977-11	METAL CHIP	100K 5% 1/16W
R309	1-218-943-11	METAL CHIP	150 5% 1/16W	R522	1-218-941-81	METAL CHIP	100 5% 1/16W
R310	1-218-973-11	METAL CHIP	47K 5% 1/16W	R523	1-218-977-11	METAL CHIP	100K 5% 1/16W
R311	1-216-864-11	SHORT CHIP	0	R524	1-218-941-81	METAL CHIP	100 5% 1/16W
R312	1-218-973-11	METAL CHIP	47K 5% 1/16W	R525	1-218-941-81	METAL CHIP	100 5% 1/16W

(US, CND)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R526	1-218-941-81	METAL CHIP	100	5%	1/16W	R610	1-218-941-81	METAL CHIP	100	5%	1/16W
R528	1-218-990-81	SHORT CHIP	0			R611	1-218-941-81	METAL CHIP	100	5%	1/16W
R533	1-218-990-81	SHORT CHIP	0			R612	1-218-941-81	METAL CHIP	100	5%	1/16W
R534	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R614	1-218-977-11	METAL CHIP	100K	5%	1/16W
R535	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R615	1-218-977-11	METAL CHIP	100K	5%	1/16W
R538	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R616	1-218-990-81	SHORT CHIP	0		
R539	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R617	1-218-977-11	METAL CHIP	100K	5%	1/16W
R540	1-218-971-81	METAL CHIP	33K	5%	1/16W	R618	1-218-941-81	METAL CHIP	100	5%	1/16W
R541	1-218-977-11	METAL CHIP	100K	5%	1/16W	R621	1-218-953-11	METAL CHIP	1K	5%	1/16W
R542	1-218-941-81	METAL CHIP	100	5%	1/16W	R622	1-218-941-81	METAL CHIP	100	5%	1/16W
R544	1-218-971-81	METAL CHIP	33K	5%	1/16W	R623	1-218-953-11	METAL CHIP	1K	5%	1/16W
R545	1-218-965-11	METAL CHIP	10K	5%	1/16W	R624	1-218-941-81	METAL CHIP	100	5%	1/16W
R546	1-218-965-11	METAL CHIP	10K	5%	1/16W	R625	1-218-941-81	METAL CHIP	100	5%	1/16W
R547	1-218-965-11	METAL CHIP	10K	5%	1/16W	R626	1-218-977-11	METAL CHIP	100K	5%	1/16W
R548	1-218-965-11	METAL CHIP	10K	5%	1/16W	R627	1-218-941-81	METAL CHIP	100	5%	1/16W
R549	1-218-977-11	METAL CHIP	100K	5%	1/16W	R628	1-218-953-11	METAL CHIP	1K	5%	1/16W
R550	1-218-990-81	SHORT CHIP	0			R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R551	1-216-821-11	METAL CHIP	1K	5%	1/10W	R630	1-218-941-81	METAL CHIP	100	5%	1/16W
R552	1-218-949-11	METAL CHIP	470	5%	1/16W	R631	1-218-965-11	METAL CHIP	10K	5%	1/16W
R553	1-218-941-81	METAL CHIP	100	5%	1/16W	R632	1-218-965-11	METAL CHIP	10K	5%	1/16W
R554	1-216-809-11	METAL CHIP	100	5%	1/10W	R633	1-218-965-11	METAL CHIP	10K	5%	1/16W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W	R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R557	1-218-941-81	METAL CHIP	100	5%	1/16W	R635	1-218-977-11	METAL CHIP	100K	5%	1/16W
R558	1-218-977-11	METAL CHIP	100K	5%	1/16W	R637	1-218-977-11	METAL CHIP	100K	5%	1/16W
R559	1-218-977-11	METAL CHIP	100K	5%	1/16W	R638	1-218-941-81	METAL CHIP	100	5%	1/16W
R561	1-218-941-81	METAL CHIP	100	5%	1/16W	R639	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-250-519-11	METAL CHIP	10K	1%	1/16W	R640	1-218-977-11	METAL CHIP	100K	5%	1/16W
R563	1-250-519-11	METAL CHIP	10K	1%	1/16W	R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R565	1-218-949-11	METAL CHIP	470	5%	1/16W	R642	1-218-941-81	METAL CHIP	100	5%	1/16W
R567	1-218-990-81	SHORT CHIP	0			R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R568	1-218-990-81	SHORT CHIP	0			R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R571	1-218-990-81	SHORT CHIP	0			R646	1-218-965-11	METAL CHIP	10K	5%	1/16W
R572	1-218-977-11	METAL CHIP	100K	5%	1/16W	R647	1-218-977-11	METAL CHIP	100K	5%	1/16W
R573	1-218-977-11	METAL CHIP	100K	5%	1/16W	R648	1-218-977-11	METAL CHIP	100K	5%	1/16W
R574	1-218-990-81	SHORT CHIP	0			R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W	R650	1-218-941-81	METAL CHIP	100	5%	1/16W
R578	1-218-941-81	METAL CHIP	100	5%	1/16W	R651	1-218-941-81	METAL CHIP	100	5%	1/16W
R579	1-250-553-11	METAL CHIP	270K	1%	1/16W	R652	1-218-941-81	METAL CHIP	100	5%	1/16W
R582	1-218-977-11	METAL CHIP	100K	5%	1/16W	R653	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
* R583	1-250-513-11	METAL CHIP	5.6K	1%	1/16W	R654	1-218-990-81	SHORT CHIP	0		
R585	1-218-977-11	METAL CHIP	100K	5%	1/16W	R655	1-216-864-11	SHORT CHIP	0		
R586	1-218-977-11	METAL CHIP	100K	5%	1/16W	R656	1-218-941-81	METAL CHIP	100	5%	1/16W
R587	1-218-941-81	METAL CHIP	100	5%	1/16W	R657	1-218-977-11	METAL CHIP	100K	5%	1/16W
R590	1-218-941-81	METAL CHIP	100	5%	1/16W	R658	1-218-941-81	METAL CHIP	100	5%	1/16W
R591	1-218-977-11	METAL CHIP	100K	5%	1/16W	R659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-218-977-11	METAL CHIP	100K	5%	1/16W	R660	1-218-941-81	METAL CHIP	100	5%	1/16W
R593	1-218-941-81	METAL CHIP	100	5%	1/16W	R662	1-218-965-11	METAL CHIP	10K	5%	1/16W
R597	1-218-981-81	METAL CHIP	220K	5%	1/16W	R665	1-218-941-81	METAL CHIP	100	5%	1/16W
R598	1-218-977-11	METAL CHIP	100K	5%	1/16W	R666	1-216-296-11	SHORT CHIP	0		
R599	1-218-941-81	METAL CHIP	100	5%	1/16W	R680	1-218-941-81	METAL CHIP	100	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W	R681	1-218-977-11	METAL CHIP	100K	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W	R682	1-218-977-11	METAL CHIP	100K	5%	1/16W
R602	1-218-941-81	METAL CHIP	100	5%	1/16W	R683	1-218-990-81	SHORT CHIP	0		
R603	1-218-941-81	METAL CHIP	100	5%	1/16W	R684	1-216-295-91	SHORT CHIP	0		
R604	1-218-941-81	METAL CHIP	100	5%	1/16W	R701	1-216-864-11	SHORT CHIP	0		
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W	R702	1-218-990-81	SHORT CHIP	0		
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W	R704	1-216-864-11	SHORT CHIP	0		
R607	1-218-941-81	METAL CHIP	100	5%	1/16W	R705	1-218-990-81	SHORT CHIP	0		
R608	1-218-990-81	SHORT CHIP	0			R706	1-216-296-11	SHORT CHIP	0		
R609	1-218-941-81	METAL CHIP	100	5%	1/16W	R707	1-216-864-11	SHORT CHIP	0		

MEX-N5100BE/N5100BT/N5150BT

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R708	1-216-864-11	SHORT CHIP	0	R814	1-218-966-11	METAL CHIP	12K 5% 1/16W (US, CND)
R709	1-218-953-11	METAL CHIP	1K 5% 1/16W	R815	1-257-321-11	METAL CHIP	0.039 1% 1/2W
R711	1-216-864-11	SHORT CHIP	0	R816	1-257-321-11	METAL CHIP	0.039 1% 1/2W
R712	1-242-967-11	METAL CHIP	1 5% 1/16W	R817	1-216-864-11	SHORT CHIP	0 (US, CND)
R714	1-208-637-11	METAL CHIP	12 0.5% 1/16W	R818	1-218-966-11	METAL CHIP	12K 5% 1/16W (US, CND)
R715	1-216-864-11	SHORT CHIP	0	R819	1-216-845-11	METAL CHIP	100K 5% 1/10W
R717	1-218-990-81	SHORT CHIP	0	R821	1-216-821-11	METAL CHIP	1K 5% 1/10W (US, CND)
R718	1-218-941-81	METAL CHIP	100 5% 1/16W	R822	1-250-593-11	METAL CHIP	110 1% 1/10W
R719	1-218-941-81	METAL CHIP	100 5% 1/16W	R823	1-250-640-11	METAL CHIP	10K 1% 1/10W
R720	1-218-990-81	SHORT CHIP	0	R825	1-250-533-11	METAL CHIP	39K 1% 1/16W
R721	1-218-941-81	METAL CHIP	100 5% 1/16W	R826	1-250-557-11	METAL CHIP	390K 1% 1/16W
R722	1-218-941-81	METAL CHIP	100 5% 1/16W	R827	1-250-557-11	METAL CHIP	390K 1% 1/16W
R723	1-218-941-81	METAL CHIP	100 5% 1/16W	R828	1-250-541-11	METAL CHIP	82K 1% 1/16W
R724	1-218-947-11	METAL CHIP	330 5% 1/16W	R829	1-216-809-11	METAL CHIP	100 5% 1/10W (US, CND)
R725	1-218-947-11	METAL CHIP	330 5% 1/16W	R830	1-250-533-11	METAL CHIP	39K 1% 1/16W
R726	1-218-969-11	METAL CHIP	22K 5% 1/16W	R831	1-218-977-11	METAL CHIP	100K 5% 1/16W (US, CND)
R727	1-218-990-81	SHORT CHIP	0	R833	1-250-519-11	METAL CHIP	10K 1% 1/16W
R728	1-218-969-11	METAL CHIP	22K 5% 1/16W	R834	1-216-809-11	METAL CHIP	100 5% 1/10W (US, CND)
R729	1-218-947-11	METAL CHIP	330 5% 1/16W	* R835	1-250-540-11	METAL CHIP	75K 1% 1/16W
R731	1-216-864-11	SHORT CHIP	0	R836	1-216-809-11	METAL CHIP	100 5% 1/10W (US, CND)
R732	1-218-947-11	METAL CHIP	330 5% 1/16W	R837	1-216-839-11	METAL CHIP	33K 5% 1/10W
R733	1-218-990-81	SHORT CHIP	0	* R838	1-250-545-11	METAL CHIP	120K 1% 1/16W
R734	1-218-990-81	SHORT CHIP	0	R839	1-250-563-11	METAL CHIP	680K 1% 1/16W
R735	1-218-947-11	METAL CHIP	330 5% 1/16W	* R840	1-250-545-11	METAL CHIP	120K 1% 1/16W
R737	1-218-990-81	SHORT CHIP	0	R841	1-218-977-11	METAL CHIP	100K 5% 1/16W (US, CND)
* R738	1-250-503-11	METAL CHIP	2.2K 1% 1/16W	R842	1-218-990-81	SHORT CHIP	0
R739	1-218-989-11	METAL CHIP	1M 5% 1/16W	R845	1-218-990-81	SHORT CHIP	0
R740	1-218-941-81	METAL CHIP	100 5% 1/16W	R846	1-250-495-11	METAL CHIP	1K 1% 1/16W
R741	1-218-958-11	METAL CHIP	2.7K 5% 1/16W	R847	1-216-864-11	SHORT CHIP	0
R742	1-218-958-11	METAL CHIP	2.7K 5% 1/16W	R848	1-216-801-11	METAL CHIP	22 5% 1/10W (US, CND)
R743	1-218-965-11	METAL CHIP	10K 5% 1/16W	R849	1-218-972-11	METAL CHIP	39K 5% 1/16W (US, CND)
R744	1-218-965-11	METAL CHIP	10K 5% 1/16W	R850	1-218-975-11	METAL CHIP	68K 5% 1/16W (US, CND)
R745	1-218-990-81	SHORT CHIP	0	R850	1-218-977-11	METAL CHIP	100K 5% 1/16W (Except US, CND)
R747	1-218-977-11	METAL CHIP	100K 5% 1/16W	R851	1-218-990-81	SHORT CHIP	0
R748	1-218-983-11	METAL CHIP	330K 5% 1/16W	R852	1-250-519-11	METAL CHIP	10K 1% 1/16W
R749	1-218-977-11	METAL CHIP	100K 5% 1/16W	R853	1-208-897-81	METAL CHIP	2.7K 0.5% 1/16W
R750	1-218-967-11	METAL CHIP	15K 5% 1/16W	* R854	1-250-543-11	METAL CHIP	100K 1% 1/16W
R751	1-216-841-11	METAL CHIP	47K 5% 1/10W	R856	1-216-073-91	METAL CHIP	10K 5% 1/10W
R752	1-218-941-81	METAL CHIP	100 5% 1/16W	R857	1-218-973-11	METAL CHIP	47K 5% 1/16W
R753	1-218-941-81	METAL CHIP	100 5% 1/16W	R858	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
R754	1-218-941-81	METAL CHIP	100 5% 1/16W	R859	1-216-073-91	METAL CHIP	10K 5% 1/10W
R755	1-218-941-81	METAL CHIP	100 5% 1/16W	R860	1-218-973-11	METAL CHIP	47K 5% 1/16W
R756	1-218-941-81	METAL CHIP	100 5% 1/16W	R861	1-218-969-11	METAL CHIP	22K 5% 1/16W
R757	1-218-941-81	METAL CHIP	100 5% 1/16W	R862	1-218-977-11	METAL CHIP	100K 5% 1/16W
R758	1-218-977-11	METAL CHIP	100K 5% 1/16W	R863	1-218-990-81	SHORT CHIP	0
R760	1-218-977-11	METAL CHIP	100K 5% 1/16W	R868	1-216-821-11	METAL CHIP	1K 5% 1/10W
R761	1-218-977-11	METAL CHIP	100K 5% 1/16W	R869	1-216-821-11	METAL CHIP	1K 5% 1/10W
R762	1-216-845-11	METAL CHIP	100K 5% 1/10W	R870	1-250-495-11	METAL CHIP	1K 1% 1/16W
R763	1-218-977-11	METAL CHIP	100K 5% 1/16W	R871	1-216-296-11	SHORT CHIP	0
R803	1-250-525-11	METAL CHIP	18K 1% 1/16W	R872	1-216-296-11	SHORT CHIP	0
* R805	1-250-543-11	METAL CHIP	100K 1% 1/16W				
R806	1-218-977-11	METAL CHIP	100K 5% 1/16W				
* R807	1-250-529-11	METAL CHIP	27K 1% 1/16W				
R808	1-250-640-11	METAL CHIP	10K 1% 1/10W				
R809	1-250-640-11	METAL CHIP	10K 1% 1/10W				
* R810	1-250-523-11	METAL CHIP	15K 1% 1/16W				
R811	1-218-933-11	METAL CHIP	22 5% 1/16W				
R812	1-218-941-81	METAL CHIP	100 5% 1/16W				
R813	1-216-821-11	METAL CHIP	1K 5% 1/10W (US, CND)				

Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R878	1-216-296-11	SHORT CHIP	0		
R890	1-216-864-11	SHORT CHIP	0		
R892	1-216-864-11	SHORT CHIP	0		
R894	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1002	1-216-864-11	SHORT CHIP	0		
R1003	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1004	1-218-941-81	METAL CHIP	100	5%	1/16W
R1005	1-218-941-81	METAL CHIP	100	5%	1/16W
R1006	1-218-941-81	METAL CHIP	100	5%	1/16W
R1007	1-218-990-81	SHORT CHIP	0		
R1010	1-218-990-81	SHORT CHIP	0		
R1011	1-218-990-81	SHORT CHIP	0		
R1012	1-216-864-11	SHORT CHIP	0		
R1013	1-218-990-81	SHORT CHIP	0		
R1014	1-218-941-81	METAL CHIP	100	5%	1/16W
R1015	1-218-933-11	METAL CHIP	22	5%	1/16W
R1016	1-216-809-11	METAL CHIP	100	5%	1/10W
R1017	1-218-933-11	METAL CHIP	22	5%	1/16W
R1018	1-216-809-11	METAL CHIP	100	5%	1/10W
R1019	1-218-941-81	METAL CHIP	100	5%	1/16W
R1020	1-216-809-11	METAL CHIP	100	5%	1/10W
R1021	1-216-809-11	METAL CHIP	100	5%	1/10W
R1023	1-218-941-81	METAL CHIP	100	5%	1/16W
R1024	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1025	1-218-941-81	METAL CHIP	100	5%	1/16W
R1028	1-218-990-81	SHORT CHIP	0		
R1029	1-218-990-81	SHORT CHIP	0		
R1030	1-218-941-81	METAL CHIP	100	5%	1/16W
R1031	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1032	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1033	1-218-967-11	METAL CHIP	15K	5%	1/16W
R1035	1-218-990-81	SHORT CHIP	0		
R1036	1-218-951-11	METAL CHIP	680	5%	1/16W
R1037	1-218-937-11	METAL CHIP	47	5%	1/16W
R1040	1-250-525-11	METAL CHIP	18K	1%	1/16W
R1053	1-218-990-81	SHORT CHIP	0		
R1054	1-216-296-11	SHORT CHIP	0		
R1055	1-216-864-11	SHORT CHIP	0		
R1056	1-216-864-11	SHORT CHIP	0		
R1117	1-218-990-81	SHORT CHIP	0		
R1329	1-218-990-81	SHORT CHIP	0		
R1330	1-218-990-81	SHORT CHIP	0		
R1359	1-216-864-11	SHORT CHIP	0		
* R1361	1-250-513-11	METAL CHIP	5.6K	1%	1/16W
R1365	1-218-990-81	SHORT CHIP	0		
R1366	1-218-990-81	SHORT CHIP	0		
R1367	1-250-497-11	METAL CHIP	1.2K	1%	1/16W
R1368	1-250-497-11	METAL CHIP	1.2K	1%	1/16W
R1369	1-250-519-11	METAL CHIP	10K	1%	1/16W
R1370	1-250-519-11	METAL CHIP	10K	1%	1/16W
R1371	1-218-941-81	METAL CHIP	100	5%	1/16W
R1389	1-216-864-11	SHORT CHIP	0		
R1394	1-216-296-11	SHORT CHIP	0		
R1395	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
R1421	1-218-990-81	SHORT CHIP	0		
R1422	1-218-990-81	SHORT CHIP	0		
R1428	1-218-990-81	SHORT CHIP	0		
R1429	1-218-990-81	SHORT CHIP	0		

Note 1: When the front panel (SV) assy is replaced, the Bluetooth information writing and affixing of label (serial number) is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8 and "AFFIXING OF LABEL (SERIAL NUMBER)" on page 12.

Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R1431	1-218-990-81	SHORT CHIP	0		
R1432	1-218-990-81	SHORT CHIP	0		
R1433	1-216-864-11	SHORT CHIP	0		
R1435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1442	1-216-296-11	SHORT CHIP	0		
R1443	1-216-296-11	SHORT CHIP	0		
R1448	1-218-941-81	METAL CHIP	100	5%	1/16W
R1452	1-218-941-81	METAL CHIP	100	5%	1/16W
R1454	1-216-864-11	SHORT CHIP	0		
R1455	1-216-864-11	SHORT CHIP	0		
R1460	1-216-296-11	SHORT CHIP	0		
R1461	1-216-864-11	SHORT CHIP	0		
R1463	1-216-864-11	SHORT CHIP	0		
R1473	1-216-864-11	SHORT CHIP	0		
R1474	1-250-640-11	METAL CHIP	10K	1%	1/10W
R1477	1-250-519-11	METAL CHIP	10K	1%	1/16W
R1479	1-218-971-81	METAL CHIP	33K	5%	1/16W
R1480	1-216-815-11	METAL CHIP	330	5%	1/10W
< SWITCH >					
S001	1-571-914-21	SWITCH, KEY BOARD (RESET)			
< DIODE/VARISTOR >					
VDR1	6-504-046-01	DIODE RSB12ZT2L			
VDR3	6-504-046-01	DIODE RSB12ZT2L			
VDR115	1-805-043-12	ABSORBER, CHIP SURGE			
VDR116	1-805-043-12	ABSORBER, CHIP SURGE			
< VIBRATOR >					
X1	1-814-824-11	QUARTZ CRYSTAL UNIT (12 MHz)			
X501	1-814-485-11	QUARTZ CRYSTAL UNIT (48 MHz)			
X502	1-814-767-11	QUARTZ CRYSTAL UNITS (13.333 MHz)			
X503	1-814-777-11	QUARTZ CRYSTAL UNITS (32.768 kHz)			
X701	1-814-778-11	QUARTZ CRYSTAL UNITS (16.9344 MHz)			

MISCELLANEOUS					

BT1	1-754-894-21	BT, ANTENNA			
FFC1	1-846-819-41	CABLE FLEXIBLE FLAT (27 CORE)			(Length: 80 mm)
FP1	A-2063-459-A	PANEL (SV) ASSY, FRONT (N5100BT: US, CND)			(See Note 1)
FP1	A-2063-460-A	PANEL (SV) ASSY, FRONT (N5100BT: AEP, UK)			(See Note 1)
FP1	A-2063-461-A	PANEL (SV) ASSY, FRONT (N5100BE)			(See Note 1)
FP1	A-2063-462-A	PANEL (SV) ASSY, FRONT (N5150BT)			(See Note 1)
FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)			
NFC1	X-2591-157-1	KNOB (VOL.) (SV) ASSY (See Note 2)			
PW1	1-846-033-11	CONNECTION CABLE (ISO) (POWER CORD)			(AEP, RU, UK)
PW1	1-846-979-11	CONNECTION CABLE, AUTOMOBILE			(POWER CORD) (Except AEP, RU, UK)

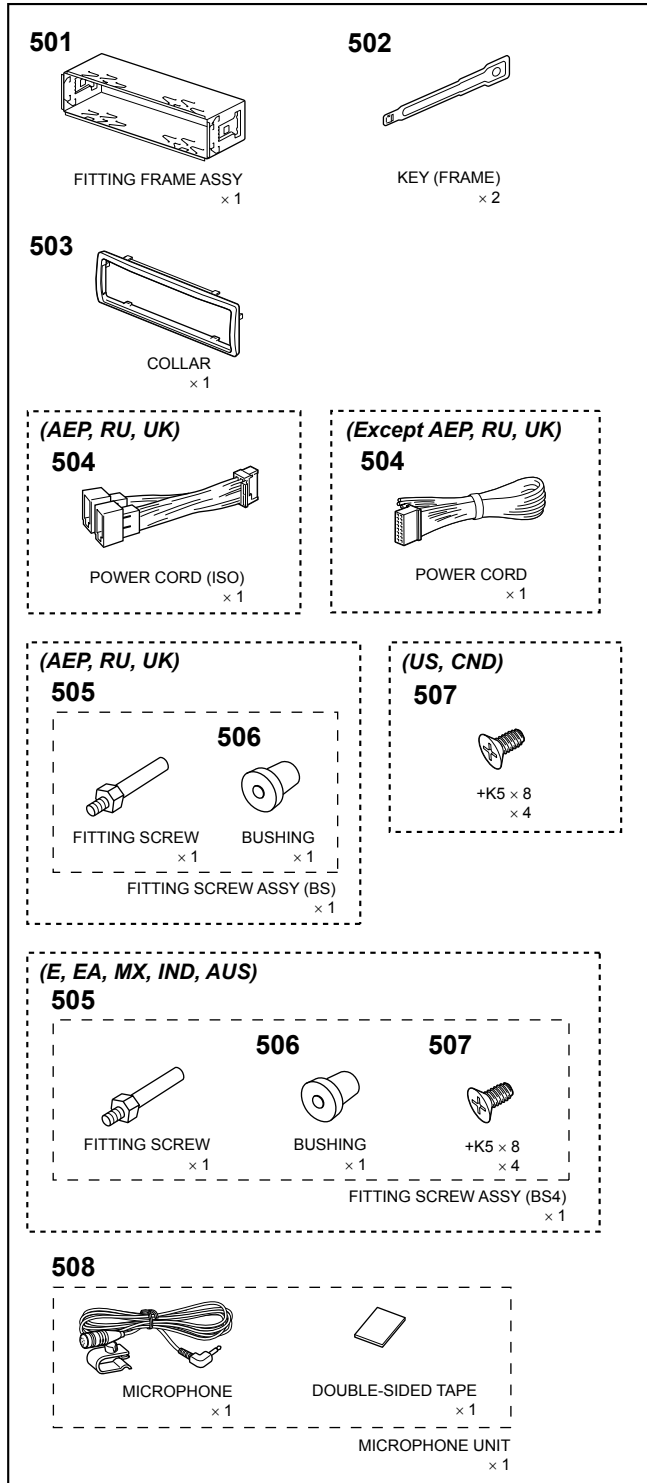
Note 2: When the knob (VOL.) (SV) assy is replaced, Bluetooth information writing is necessary. Refer to "BLUETOOTH INFORMATION WRITING METHOD" on page 8.

MEX-N5100BE/N5100BT/N5150BT

Ref. No.	Part No.	Description	Remark
		ACCESSORIES *****	
	1-489-810-42	REMOTE COMMANDER (RM-X231) (Except AEP, UK, AUS)	
	4-548-379-11	OPERATING INSTRUCTION (ENGLISH, FRENCH, SPANISH) (US, CND)	
	4-548-379-21	OPERATING INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH, ITALIAN) (AEP, UK)	
	4-548-379-31	OPERATING INSTRUCTION (RUSSIAN, UKRAINIAN) (RU)	
	4-548-379-41	OPERATING INSTRUCTION (ENGLISH) (AUS)	
	4-548-379-51	OPERATING INSTRUCTION (ENGLISH, SPANISH) (E, IND)	
	4-548-379-61	OPERATING INSTRUCTION (ENGLISH, SPANISH) (MX)	
	4-548-379-71	OPERATING INSTRUCTION (ENGLISH, ARABIC, PERSIAN) (EA)	

PARTS FOR INSTALLATION AND CONNECTIONS

501	X-2583-962-1	FRAME ASSY, FITTING	
502	4-276-003-02	KEY (FRAME) (1 piece)	
503	4-461-753-01	COLLAR	
504	1-846-033-11	CONNECTION CABLE (ISO) (POWER CORD) (AEP, RU, UK)	
504	1-846-979-11	CONNECTION CABLE, AUTOMOBILE (POWER CORD) (Except AEP, RU, UK)	
505	X-2584-360-1	SCREW ASSY (BS), FITTING (AEP, RU, UK)	
505	X-2587-114-1	SCREW ASSY (BS4), FITTING (E, EA, MX, IND, AUS)	
506	3-349-410-11	BUSHING (EXCEPT US, CND)	
507	3-934-325-21	SCREW, +K (5X8) TAPPING (1 piece) (Except AEP, RU, UK)	
508	1-542-986-11	MICROPHONE UNIT (Including DOUBLE-SIDED TAPE)	



MEMO

