MEX-BT4000E/BT4000P/BT4000U/ BT4050U/BT4054U

SERVICE MANUAL

Ver. 1.0 2011.11

US Model
Canadian Model
MEX-BT4000P
AEP Model
UK Model
MEX-BT4000U
E Model
MEX-BT4050U
Russian Model
MEX-BT4000E
Indian Model
MEX-BT4054U

Photo: MEX-BT4000P

- The Tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT565UP/GT565UV/ GT615UV/GT616UG
Mechanism Type	MG-101CA-188
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS (BT4000P)

CEA2006 Standard
Power Output: 17 Watts RMS × 4 at 4 Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Tuner section (BT4000P)

FM
Tuning range: 87.5 – 107.9 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
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
Intermediate frequency:
9,115 kHz or 9,125 kHz/5 kHz
Sensitivity: 26 µV

Tuner section (BT4000U)

FM
Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
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
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: MW: 26 µV, LW: 45 µV

Tuner section (BT4000E)

FM
Tuning range:
FM1/FM2: 87.5 – 108.0 MHz (at 50 kHz step)
FM3: 65 – 74 MHz (at 30 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
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
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: MW: 26 µV, LW: 45 µV

Tuner section (BT4050U: E, Mexican models/ BT4054U)

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: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
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
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz (at 9 kHz step)
9,115 kHz or 9,125 kHz/5 kHz (at 10 kHz step)
Sensitivity: 26 µV

Tuner section (BT4050U: Saudi Arabia model)

FM
Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
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
Intermediate frequency:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
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:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: 26 µV

CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit

USB Player section

Interface: USB (Full-speed)
Maximum current: 1 A

Wireless Communication

Communication System:
Bluetooth Standard version 2.1 + EDR
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) 1.2
AVRCP (Audio Video Remote Control Profile) 1.3
HFP (Handsfree Profile) 1.5
PBAP (Phone Book Access Profile)
OPP (Object Push Profile)

*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: 52 W × 4 (at 4 ohms)

General

Outputs:
BT4000P/BT4050U/BT4054U:
Audio outputs terminal (front, rear, sub)
Power antenna (aerial)/Power amplifier control terminal (REM OUT)
BT4000E/BT4000U:
Audio outputs terminal (front, rear/sub switchable)
Power antenna (aerial) relay control terminal
Power amplifier control terminal
Inputs:
Connector for optional SiriusXM Connect tuner cable (BT4000P)
Telephone ATT control terminal
Remote controller input terminal
Antenna (aerial) input terminal
MIC input terminal
AUX input jack (stereo mini jack)
USB signal input connector
Power requirements: 12 V DC car battery (negative ground (earth))
Dimensions: Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in) (w/h/d)
Mounting dimensions: Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in) (w/h/d)
Mass: Approx. 1.2 kg (2 lb 11 oz)
Supplied accessories:
Remote commander: RM-X231
Microphone (BT4000P/BT4000U)
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

Bluetooth® AUDIO SYSTEM

9-893-368-01
2011K33-1

Sony Corporation
Published by Sony Techno Create Corporation

SONY®

For the State of California, USA only
Perchlorate Material – special handling may apply, See
www.dtsc.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate

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• US and Canadian models:
CAUTION
The use of optical instruments with this product will increase eye hazard.

• Except US and Canadian models:

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

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

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.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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 ⚠ 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.

TABLE OF CONTENTS

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

SECTION 1
SERVICING NOTES

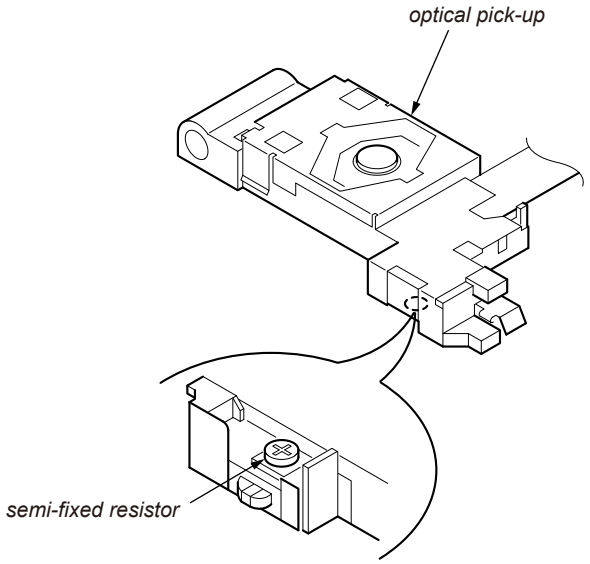
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

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)

: 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.

NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING

When the MAIN board or system controller (IC501) 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] ⟶ [5] ⟶ [6] (press only the [6] button for two seconds).
2. In the state in which the system controller version is displayed on the liquid crystal display, enter the destination setting mode by pressing the buttons in order of the [SEEK +] ⟶ [SEEK –] ⟶ [PUSH ENTER/SELECT].
3. Input the alphanumeric character of 6 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.

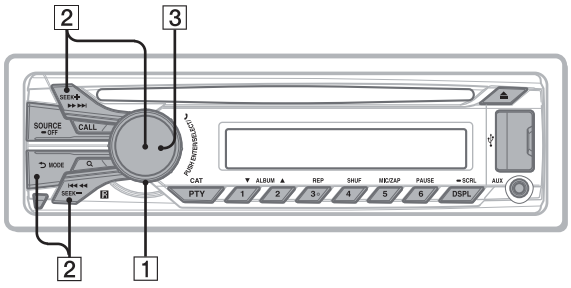
4. The resetting operation is executed by pressing the [SOURCE/OFF] button for 1 second after the setting ends, and the unit returns to the normal condition.

1-2. Display in Destination Setting Mode

							OP5	OP4	OP3	OP2	OP1	OP0
12 digits	F						X	X	X	X	X	X

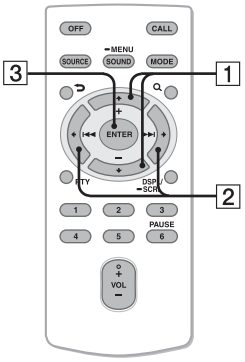
1-3. Entering the Destination Code

- **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/SELECT] or [SEEK +] button.
   The digit returns by pressing the [⮌] or [SEEK –] button.
3. The setting is completed by pressing the [PUSH ENTER/SELECT] button, and the initialization operation is done.

- **Method of operation by 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.

1-4. Destination Code

Model	Destination	OP5	OP4	OP3	OP2	OP1	OP0
MEX-BT4000E	Russian	0	1	E	2	6	7
MEX-BT4000P	US, Canadian	0	3	4	2	3	2
MEX-BT4000U	AEP, UK	0	1	C	2	2	1
MEX-BT4050U	E, Mexican	0	1	4	A	0	0
	Saudi Arabia	0	1	4	A	0	4
MEX-BT4054U	Indian	0	1	4	A	1	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:

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 [4] ⟶ [5] ⟶ [6] (press only the [6] button for two seconds).
2. In the state in which the system controller version is displayed on the liquid crystal display, enter the destination setting value display mode by pressing the [DSPL] button.
3. Confirm the alphanumeric character of 6 digits of "F XXXXXX" displayed in liquid crystal display is an value correctly input.
4. The resetting operation is executed by pressing the [SOURCE/OFF] button for 1 second after the confirming ends, and the unit returns to the normal condition.

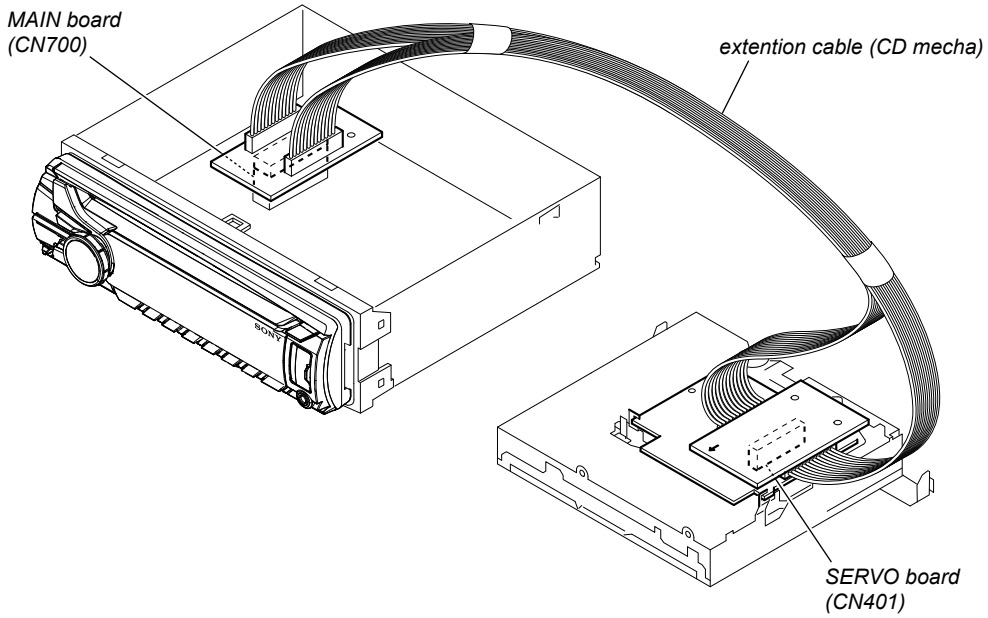
EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig cable (extension cable (CD mecha)) as shown below.

- Connect the MAIN board (CN700) and the SERVO board (CN401) with the jig cable.

Jig cable:

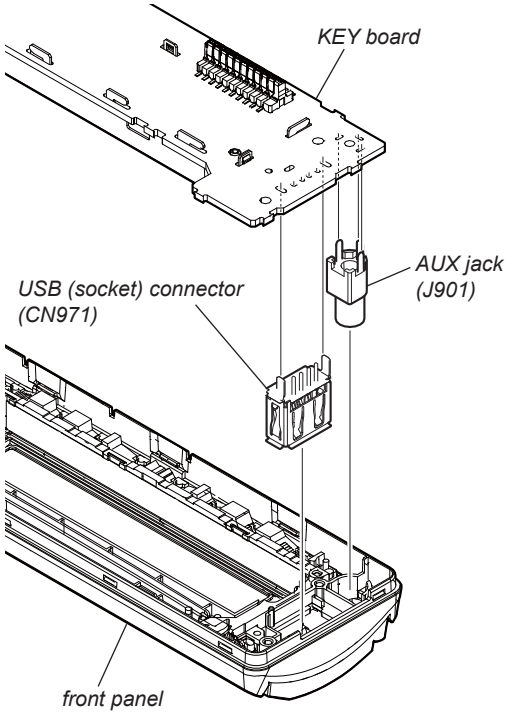
Part No.	Description
A-1818-424-A	EXTENSION CABLE (CD MECHA)



NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)

To replace the USB connector and the AUX jack requires alignment.

1. Insert the USB connector and the AUX jack into the front panel.
2. Place the KEY board on the front panel and align the terminals of the USB connector and the AUX jack with the holes in the KEY board.
3. Solder four terminals of the connector and three terminals of the jack.



TEST DISCS

Use following TEST DISC when this set confirms the operation and checks it.

Part No.	Description
3-702-101-01	YEDS-18 (for CD)
4-225-203-01	PATD-012 (for CD)

NOTE FOR THE 20-PIN CONNECTOR (CN901)

Do not use alcohol to clean the 20-pin connector (CN901) connecting the front panel with the main body.
Do not touch the connector directly with your bare hand. Poor contact may be caused.

NOTE FOR REPLACEMENT OF THE BT BOARD

When repairing, the complete BT board should be replaced since any parts in the BT board cannot be repaired.

NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board should be replaced since any parts in the SERVO board cannot be repaired.

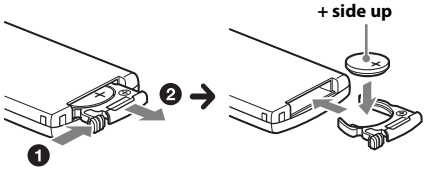
NOTE FOR REPLACEMENT OF THE SENSOR BOARD

When SENSOR board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08 (Former type) or MECHANICAL BLOCK (11CA) ASSY (New type).

Note: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

Replacing the lithium battery of the remote commander

When the battery becomes weak, the range of the remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.



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 assure 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.

WARNING

Battery may explode if mistreated.
Do not recharge, disassemble, or dispose of in fire.

Canceling the DEMO mode

You can cancel the demonstration display which appears while this unit is turned off.

1 **Press and hold the select button.**
The setup display appears.

2 **Rotate the control dial until "DEMO" appears, then press it.**

3 **Rotate the control dial to select "DEMO-OFF," then press it.**
The setting is complete.

4 **Press ⮌ (BACK).**
The display returns to normal reception/play mode.

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 the BT board or MAIN board (including BT board) are replaced, it is necessary to initialize this set.

Refer to the following, initialize this set.

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

Initializing Bluetooth Settings

You can initialize all the Bluetooth related settings (pairing information, phonebook, call history, preset number, device information, etc.) from this unit.

1 **Press and hold (SOURCE/OFF) for 1 second to turn off the power.**

2 **Press and hold the select button.**
The menu list appears.

3 **Rotate the control dial to select "BT INIT," then press it.**
The confirmation appears.

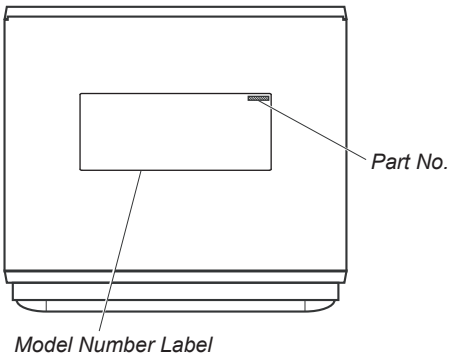
4 **Rotate the control dial to select "INIT-YES," then press it.**
"INITIAL" flashes while initializing the Bluetooth settings; "COMPLETE" appears when initializing has finished.

Note

When disposing of this unit, preset numbers should be deleted with "BT INIT."

MODEL IDENTIFICATION

– Bottom View –



Part No.	Destination
4-300-009-0□	BT4000P: US and Canadian models
4-300-010-0□	BT4000E: Russian model
4-300-011-0□	BT4050U: E model
4-300-012-0□	BT4050U: Mexican model
4-300-013-0□	BT4050U: Saudi Arabia model
4-300-014-0□	BT4000U: AEP and UK models
4-300-015-0□	BT4054U: Indian model

BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE

1. Required Equipment

- Set to be tested (MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U), external microphone of attachment if necessary
- 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

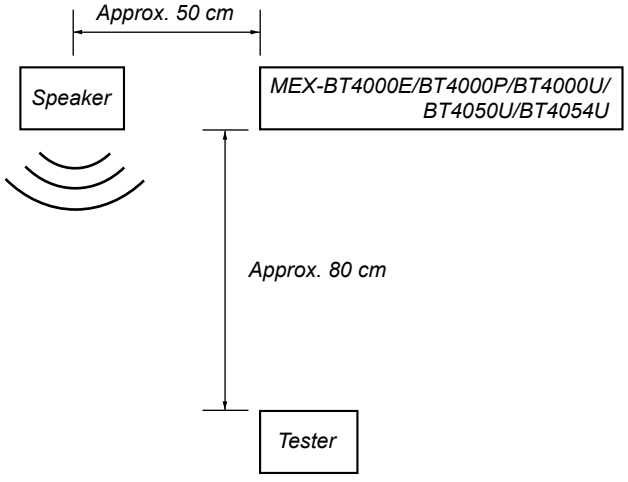
- Confirm the setting of the MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U, and notate it.
- Press the [CALL] button and rotate the control dial until "SET PAIRING" appears, then press it, confirm that the Bluetooth signal icon ( ) is flashing.
- Turn on the Bluetooth function of the cellular phone.

3. Test Environment

- No other Bluetooth device is making a communication in the periphery (within 20 m).
- No other MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U 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 the MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U 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 MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U.
- The speaker's voice will become loud naturally if the periphery is noisy, or become low if quiet (even though the speaker intents 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 MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U.

1. Search for this set from the Bluetooth device (cellular phone), and confirm whether this set ("Sony Automotive") is displayed.
2. Search for the distance of this set and the Bluetooth device (cellular phone) about 5 m apart.
   Confirm whether the Bluetooth device (or this set) is displayed after it searches.
3. Do the pairing of the cellular phone and this set (input of pass code).
4. Connect the cellular phone with this set, and confirm the "HF" icon lights.
5. Confirm the connection continues even if the distance of the cellular phone and this set is separated by about 5 m.
6. Set this set besides the "BT PHONE" source, and call the cellular phone connected with this set.
   Confirm the automatic change of this set into "BT PHONE" source, and the change into the screen for incoming calls.
   Confirm the ring tone is heard from the speaker.
7. Take a phone call (press the encoder switch), and start a conversation.
   Confirm the other person voice is heard from the speaker.
   Speak toward the microphone of this set, and confirm whether the other party hears its voice (At the external microphone noncontact).
   Compare the sound quality with a normal set. Confirm that there is no big difference.
8. Speak toward an external microphone at the following condition, and confirm the other party hears its voice.
   - An external microphone is connected.
9. Turn on ACC from off, and confirm whether this set 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 MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U;
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 MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U.

1. Connect the Bluetooth audio device (or cellular phone with Bluetooth audio function) with this set, and confirm the "Audio Streaming" icon lights.
2. Playback Bluetooth audio. Confirm the sound is emitted from this set when this set is switched to "Bluetooth Audio" source.
3. Confirm whether Bluetooth audio can be controlled by operating this set (the Multi way encoder left/right, [PAUSE] keys operation).

Note: Varies depending on the connected Bluetooth audio device.

8. What to Do after Checking

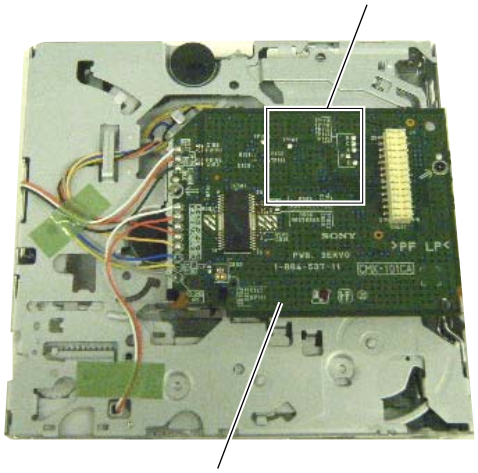
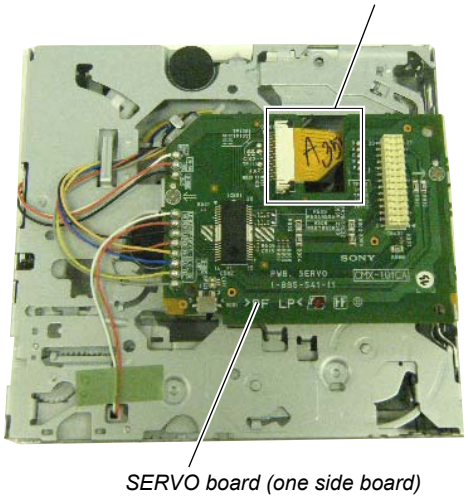
- After checking, select "BT INIT" from the menu list of this set to execute initialization.
  (Connected device information is deleted.)

ABOUT THE MG-101CA-188 OF FORMER AND NEW

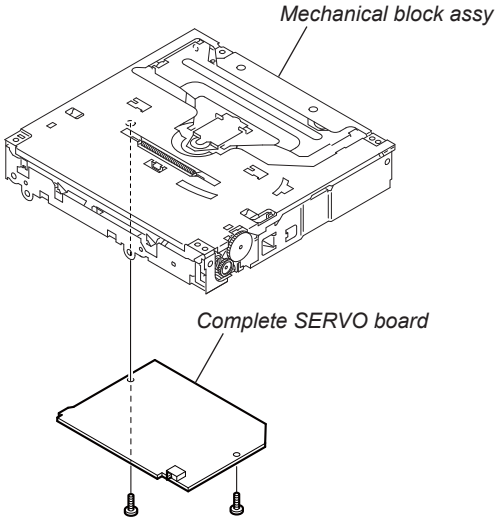
As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), please be sure to work, after referring to the following figure and checking former and new.

- **New/Former Discrimination**

  As shown in the following figure, please check the SERVO board side of the mechanism deck (MG-101CA-188).

Former type	New type
Flexible board cannot be seen.  *SERVO board (double-sided board)*	*Flexible board can be seen.*  *SERVO board (one side board)*

- **New/Former Compatibility**

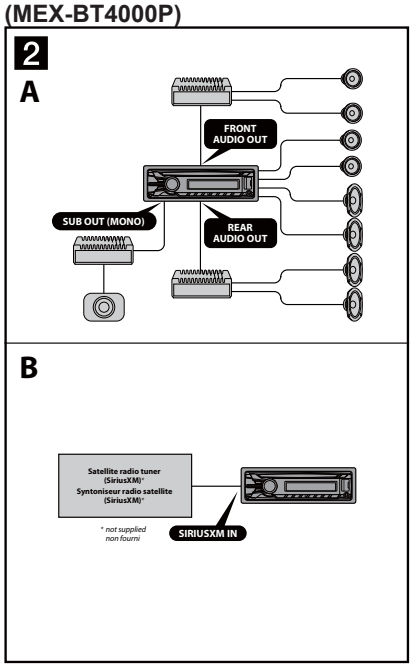


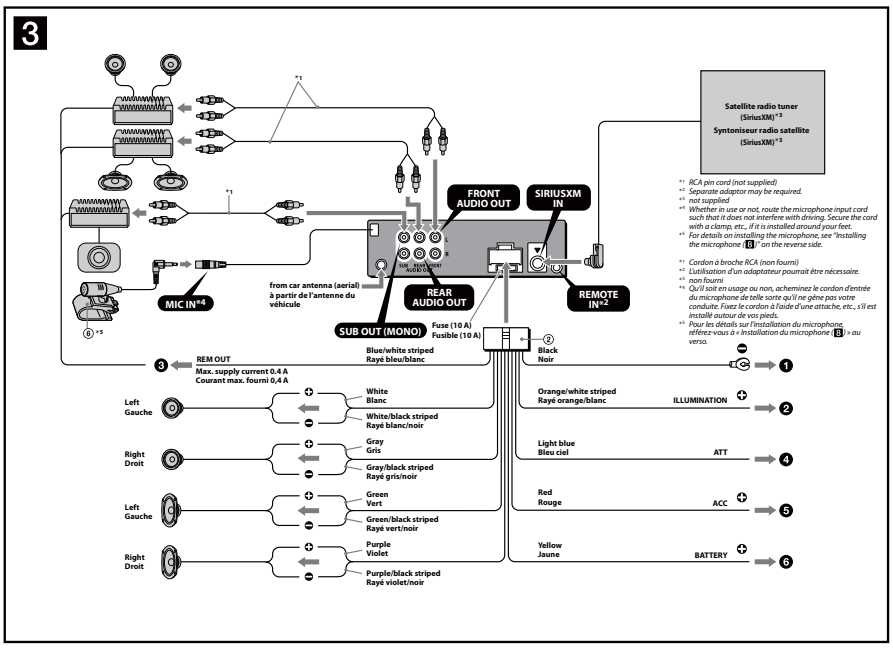
MECHANICAL BLOCK ASSY		COMPLETE SERVO BOARD		Judgment
New type	+	New type	=	OK
New type	+	Former type	=	OK
Former type	+	New type	=	NG
Former type	+	Former type	=	OK

SECTION 2
GENERAL

This section is extracted from instruction manual.

(MEX-BT4000P)





Cautions

Be sure to install this unit in the dashboard of the car as the rear side of the unit becomes hot during use.

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads 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.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- The use of optical instruments with this product will increase eye hazard.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

***Notes* (2-A)**

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

Connection diagram 3

1 To a metal surface of the car
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

2 To a car's illumination signal
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

3 To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster
Notes
- *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).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

To AMP. REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

4 To the interface cable of a car telephone

5 To the +12 V power terminal which is energized in the accessory position of the ignition switch
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
  Be sure to connect the black ground (earth) lead to a metal surface of the car first.
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

6 To the +12 V power terminal which is energized at all times
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads

- *REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

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.

Notes on 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 its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Précautions

Installez cet appareil sur le tableau de bord de la voiture, car l'arrière de l'appareil chauffe en cours d'utilisation.

- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant deffectuer les raccordements, coupez le moteur pour éviter un court-circuit.
- Raccordez les câbles d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres raccordements.
- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Pour des raisons de sécurité, veillez à isoler avec du ruban isolant tout câble libre non raccordé.
- L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux.

Remarques sur le câble d'alimentation (jaune)

- Lorsque cet appareil est raccordé à d'autres éléments stéréo, la valeur nominale du circuit de la voiture raccordé doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture nest assez puissant, raccordez directement l'appareil à la batterie.

Exemple de raccordement 2

***Remarques* (2-A)**

- *Raccordez d'abord le câble de mise à la masse avant de raccorder l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

Schéma de raccordement 3

1 À un point métallique de la voiture
Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.

2 Vers le connecteur du signal d'éclairage de la voiture
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.

3 Au câble de commande d'antenne électrique ou au câble d'alimentation de l'amplificateur d'antenne
Remarques
- *Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

Au niveau de AMP. REMOTE IN de l'amplificateur de puissance en option
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

4 Vers le câble de liaison d'un téléphone de voiture

5 À la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».*

6 À la borne d'alimentation +12 V qui est alimentée en permanence
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.

Remarques sur les câbles de commande et d'alimentation

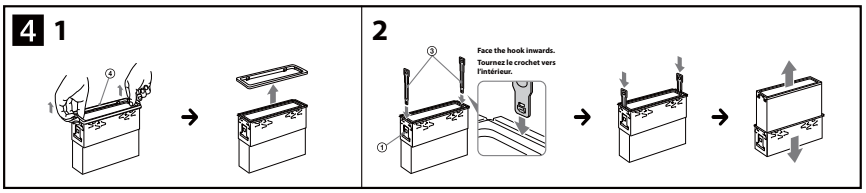
- *Le câble REM OUT (rayé bleu/blanc) fournit une alimentation de +12 V CC lorsque vous mettez l'appareil en marche.*
- *Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble REM OUT (rayé bleu/blanc) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

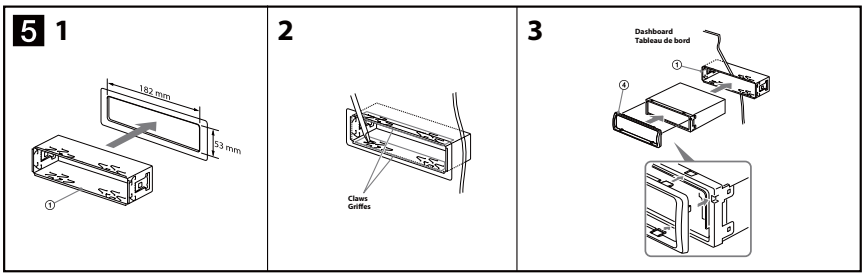
Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

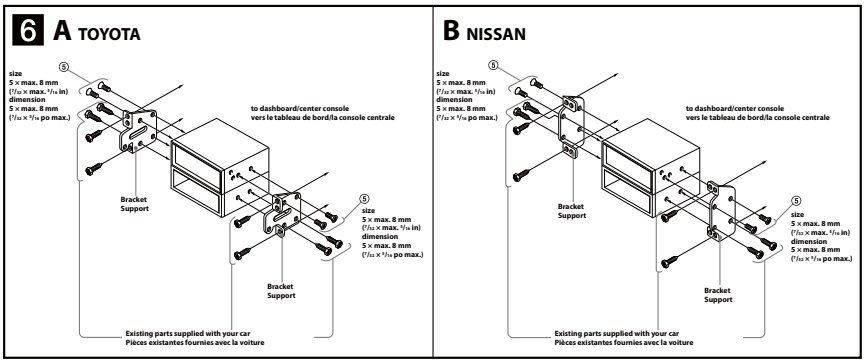
Remarques sur le raccordement des haut-parleurs

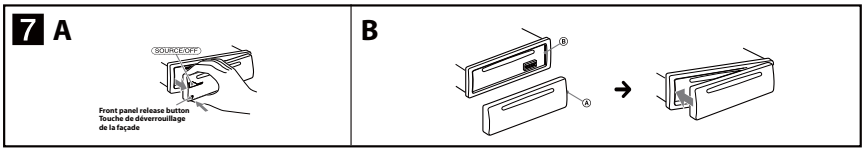
- *Avant de raccorder les haut-parleurs, éteignez l'appareil.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil possède un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les câbles des haut-parleurs de l'appareil.*

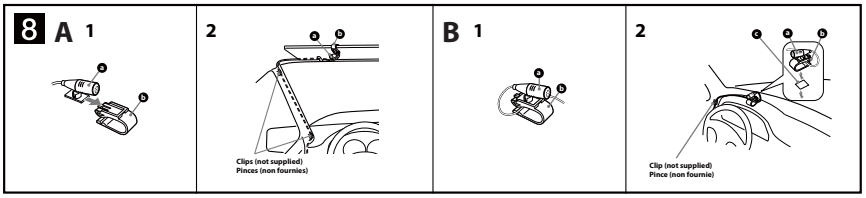
Remarque sur le raccordement
Si le haut-parleur et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.











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 temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket 4

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

1. **Remove the protection collar Ⓐ.**
   Pinch both edges of the protection collar Ⓐ, then pull it out.
2. **Remove the bracket ①.**
   ❶ Insert both release keys ③ together between the unit and the bracket ① until they click.
   ❷ Pull down the bracket ①, then pull up the unit to separate.

Mounting example 5

Installation in the dashboard

Notes

- *Bend these claws outward for a tight fit, if necessary (5-2).*
- *Make sure that the 4 catches on the protection collar Ⓐ are properly engaged in the slots of the unit (5-3).*

Mounting the unit in a Japanese car 6

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

Note

To prevent malfunction, install only with the supplied screws ⑤.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press the front panel release button, and pull it off towards you.

7-B To attach

Engage part Ⓐ of the front panel with part Ⓑ of the unit, as illustrated, and push the left side into position until it clicks.

Installing the microphone 8

To capture your voice during handsfree calling, you need to install the microphone (supplied).

Cautions

- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- 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.

8-A Installing on the sun visor

1. **Install the microphone ❹ on the clip ❺.**
2. **Install the clip ❺ on the sun visor.**
3. **Install clips (not supplied) and adjust the length and position of the cord so that it does not obstruct your driving.**

8-B Installing on the dashboard

1. **Install the microphone ❹ on the clip ❺, then place the cord along the groove of the clip ❺.**
2. **Attach the clip ❺ to the dashboard with the double-sided tape ❻.**
3. **Install a clip (not supplied) and adjust the length and position of the cord so that it does not obstruct your driving.**

Notes

- *Before attaching the double-sided tape ❻, clean the surface of the dashboard with a dry cloth.*
- *Adjust the microphone angle to the proper position.*
- *The microphone ❹ can be installed without using the clip ❺. In this case, directly attach the microphone to the dashboard with the double-sided tape ❻. Keep the unused clip ❺ for future use.*

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (SOURCE/OFF) until the display disappears each time you turn the ignition off.

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.

Précautions

- Choisissez soigneusement l'emplacement d'installation pour que l'appareil ne gêne pas le conducteur pendant la conduite.
- Évitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.

Réglage de l'angle de montage

Réglez l'inclinaison à un angle inférieur à 45°.

Retrait du tour de protection et du support 4

Avant d'installer l'appareil, retirez le tour de protection Ⓐ et le support ① de l'appareil.

1. **Retirez le tour de protection Ⓐ.**
   Pincez les deux bords du tour de protection Ⓐ, puis sortez-le.
2. **Retirez le support ①.**
   ❶ Insérez les clés de déblocage ③ en même temps entre l'appareil et le support ① jusqu'au déclic.
   ❷ Tirez le support ① vers le bas, puis tirez sur l'appareil vers le haut pour les séparer.

Exemple de montage 5

Installation dans le tableau de bord

Remarques

- *Si nécessaire, pliez ces griffes vers l'extérieur pour assurer une prise correcte (5-2).*
- *Assurez-vous que les 4 loquets situés sur le tour de protection Ⓐ sont correctement engagés dans les fentes de l'appareil (5-3).*

Montage de l'appareil dans une voiture japonaise 6

Cet appareil ne peut pas être installé dans certaines voitures japonaises. Consultez, dans ce cas, votre détaillant Sony.

Remarque

Pour éviter tout problème de fonctionnement, utilisez uniquement les vis ⑤ fournies pour le montage.

Retrait et fixation de la façade 7

Avant d'installer l'appareil, retirez la façade.

7-A Pour la retirer

Avant de retirer la façade, n'oubliez pas de maintenir enfoncée la touche (SOURCE/OFF). Appuyez sur la touche de déverrouillage de la façade, puis faites glisser la façade vers vous.

7-B Pour la fixer

Engagez la partie Ⓐ de la façade dans la partie Ⓑ de l'appareil, comme illustré, puis appuyez sur le côté gauche jusqu'au déclic indiquant que la façade est en position.

Installation du microphone 8

Pour capturer votre voix au cours d'un appel en mains libres, vous devez installer le microphone (fourni).

Avertissements

- Éloignez le microphone de l'humidité et des températures extrêmement élevées.
- Il est extrêmement dangereux que le cordon s'enroule autour de la colonne de direction ou du levier de vitesses. Assurez-vous d'éviter que le cordon et les autres parties puissent encombrer votre conduite.
- Si des coussins gonflables ou tout équipement antichoc se trouvent dans votre voiture, communiquez avec le magasin où vous avez acheté cet appareil, ou le concessionnaire, avant l'installation.

8-A Installation sur le pare-soleil

1. **Installez le microphone ❹ sur la pince ❺.**
2. **Installez la pince ❺ sur le pare-soleil.**
3. **Installez les pinces (non fournies) et réglez la longueur et la position du cordon de façon à ne pas encombrer votre conduite.**

8-B Installation sur le tableau de bord

1. **Installez le microphone ❹ sur la pince ❺, puis placez le cordon le long de la rainure de la pince ❺.**
2. **Fixez la pince ❺ au tableau de bord à l'aide d'un ruban adhésif à double face ❻.**
3. **Installez la pince (non fournie) et réglez la longueur et la position du cordon de façon à ne pas encombrer votre conduite.**

Remarques

- *Avant de fixer le ruban adhésif à double face ❻, nettoyez la surface du tableau de bord avec un tissu sec.*
- *Réglez l'angle du microphone à la bonne position.*
- *Le microphone ❹ peut être installé sans utiliser la pince ❺. Le cas échéant, fixez directement le microphone au tableau de bord à l'aide d'un ruban adhésif à double face ❻. Gardez la pince inutilisée ❺ pour utilisation ultérieure.*

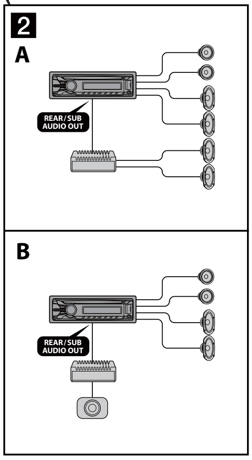
Avertissement si le contact de votre véhicule ne comporte pas de position ACC

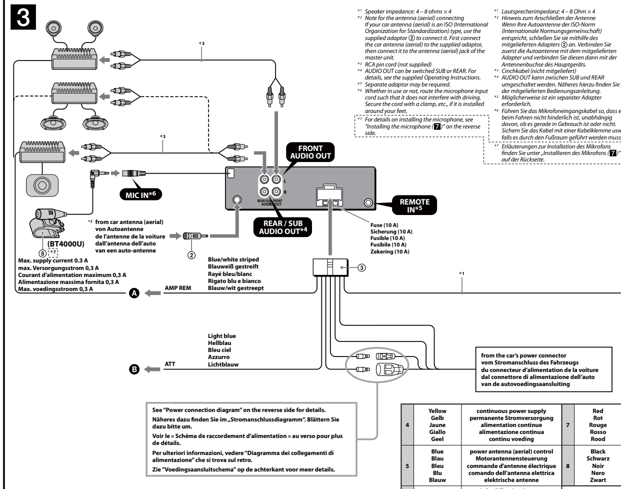
Veillez à régler la fonction Auto Off. Pour obtenir davantage d'informations, reportez-vous au mode d'emploi fourni.
L'appareil s'éteint complètement et automatiquement après le laps de temps choisi une fois l'appareil arrêté afin d'éviter que la batterie ne se décharge.
Si vous ne réglez pas la fonction Auto Off, appuyez sur la touche (SOURCE/OFF), et maintenez-la enfoncée jusqu'à ce que l'affichage disparaisse à chaque fois que vous coupez le contact.

Remplacement du fusible

Lorsque vous remplacez le fusible, veillez à utiliser un fusible dont l'intensité, en ampères, correspond à la valeur indiquée sur le fusible usagé.
Si le fusible grille, vérifiez le branchement de l'alimentation et remplacez le fusible.
Si le nouveau fusible grille également, il est possible que l'appareil soit défectueux. Dans ce cas, consultez votre détaillant Sony le plus proche.

(MEX-BT4000E/BT4000U)





*1 Speaker impedance: 4 – 8 ohms × 4
*2 Note for the antenna (aerial) connecting
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ② to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
*3 RCA pin cord (not supplied)
*4 AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.
*5 Separate adaptor may be required.
*6 Whether in use or not, route the microphone input cord such that it does not interfere with driving. Secure the cord with a clamp, etc., if it is installed around your feet.
*7 For details on installing the microphone, see "Installing the microphone (7)" on the reverse side.

*1 Lautsprecherimpedanz: 4 – 8 Ohm × 4
*2 Hinweis zum Anschließen der Antenne
Wenn Ihre Autoantenne der ISO-Norm (Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters ② an. Verbinden Sie zuerst die Autoantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*3 Cinchkabel (nicht mitgeliefert)
*4 AUDIO OUT kann zwischen SUB und REAR umgeschaltet werden. Näheres hierzu finden Sie in der mitgelieferten Bedienungsanleitung.
*5 Möglicherweise ist ein separater Adapter erforderlich.
*6 Führen Sie das Mikrofoneingangskabel so, dass es beim Fahren nicht hinderlich ist, unabhängig davon, ob es gerade in Gebrauch ist oder nicht. Sichern Sie das Kabel mit einer Kabelklemme usw., falls es durch den Fußraum geführt werden muss.
*7 Erläuterungen zur Installation des Mikrofons finden Sie unter „Installieren des Mikrofons (7)" auf der Rückseite.

*1 Impédance des haut-parleurs : 4 – 8 ohms × 4
*2 Remarque sur le raccordement de l'antenne
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni ② pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*3 Cordon à broche RCA (non fourni)
*4 AUDIO OUT peut être commuté sur SUB ou REAR. Pour obtenir plus de détails, reportez-vous au mode d'emploi.
*5 Un adaptateur séparé peut être nécessaire.
*6 Que vous utilisiez ou non le microphone, acheminez son cordon de manière à ce qu'il ne gêne pas la conduite. Fixez le cordon à l'aide d'une attache, par exemple, si vous l'installez à proximité des pieds.
*7 Pour plus d'informations sur l'installation du microphone, reportez-vous à la section « Installation du microphone (7) » au verso.

*1 Impedenza diffusori: 4 – 8 ohm × 4
*2 Nota per il collegamento dell'antenna
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore ② in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*3 Cavo a piedini RCA (non in dotazione)
*4 AUDIO OUT può essere impostato su SUB o su REAR. Per ulteriori informazioni, consultare il manuale di istruzioni per l'uso in dotazione.
*5 Potrebbe essere necessario un adattatore separato.
*6 Indipendentemente dal fatto che venga utilizzato o meno, sistemare il cavo di ingresso del microfono in modo che non interferisca con la guida. Se il cavo è installato nella parte dell'abitacolo riservato ai piedi, fissarlo con un fermacavo o simili.
*7 Per ulteriori informazioni sull'installazione del microfono, consultare "Installazione del microfono (7)" sul lato opposto.

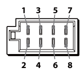
*1 Luidsprekerimpedantie: 4 – 8 ohm × 4
*2 Opmerking bij de antenne-aansluiting
Indien uw auto is uitgerust met een antenne van het type ISO (International Organization for Standardization), moet u die aansluiten met behulp van de bijgeleverde adapter ②. Sluit eerst de auto-antenne aan op de bijgeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.
*3 Tulpstekkersnoer (niet bijgeleverd)
*4 AUDIO OUT kan worden ingesteld op SUB of REAR. Raadpleeg de gebruiksaanwijzing voor meer informatie.
*5 Er is mogelijk een afzonderlijke adapter vereist.
*6 Zorg ervoor dat de microfooningangskabel u niet kan hinderen tijdens het rijden. Bevestig de kabel met een klem enz. als deze in de buurt van uw voeten geïnstalleerd is.
*7 Meer informatie over de installatie van de microfoon vindt u onder "De microfoon installeren (7)" op de keerzijde.

(BT4000U)

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power antenna (aerial) control Motorantennensteuerung commande d'antenne électrique comando dell'antenna elettrica elektrische antenne	8	Black Schwarz Noir Nero Zwart	ground (earth) Masse masse terra aarding
6	Orange/White Orangeweiß gestreift Rayé orange/blanc Arancione/bianco Oranje/wit	switched illumination power supply geschaltete Beleuchtungsstromversorgung alimentation de l'éclairage commuté alimentazione illuminazione commutata geschakelde voeding voor verlichting			

Positions 1, 2 and 3 do not have pins.
An Position 1, 2 und 3 befinden sich keine Stifte.
Les positions 1, 2 et 3 ne comportent pas de broches.
Le posizioni 1, 2 e 3 non hanno piedini.
De posities 1, 2 en 3 hebben geen pins.

from the car's speaker connector
vom Lautsprecheranschluss des Fahrzeugs
du connecteur de haut-parleur de la voiture
dal connettore dei diffusori dell'auto
van de autoluidsprekeraansluiting



1	Purple Violett Violet Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Gray Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped leads.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.

Cautions

Be sure to install this unit in the dashboard of the car as the rear side of the unit becomes hot during use.

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads 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 ③ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

Notes **(2-A)**

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

Connection diagram 3

A To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

B To the interface cable of a car telephone

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads

- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

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.

Notes on 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 its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Warnhinweise

Installieren Sie das Gerät unbedingt im Armaturenbrett des Fahrzeugs, denn die Rückseite des Geräts erwärmt sich bei Betrieb.

- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom (negative Erdung) bestimmt.
- Achten Sie darauf, dass die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z. B. in einer Sitzschiene eingeklemmt werden.
- Schalten Sie, bevor Sie irgendwelche Anschlüsse vornehmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungskabel ③ mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Hilfsstromanschluss verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband abgeklebt werden.

Hinweise zum Stromversorgungskabel (gelb)

- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muss der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen der einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das Gerät direkt an die Batterie an.

Anschlussbeispiel 2

Hinweise **(2-A)**

- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Der Warnton wird nur ausgegeben, wenn der integrierte Verstärker verwendet wird.*

Anschlussdiagramm 3

A An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.

B An Schnittstellenkabel eines Autotelefons

Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel ③ die Antenne beschädigt werden.

Hinweise zu den Steuer- und Stromversorgungsleitungen

- *Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss

- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Hinweis zum Anschließen
Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.

Précautions

Installez cet appareil sur le tableau de bord de la voiture, car l'arrière de l'appareil chauffe en cours d'utilisation.

- Cet appareil est conçu pour fonctionner uniquement sur un courant continu de 12 V avec masse négative.
- Evitez de coincer les câbles sous des vis ou dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le câble d'alimention ③ sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- **Rassemblez tous les câbles de mise à la masse en un point de masse commun.**
- Veillez à isoler tout câble lâche non raccordé avec du ruban isolant.

Remarques sur le câble d'alimentation (jaune)

- Lorsque cet appareil est raccordé à d'autres équipements stéréo, la valeur nominale du circuit raccordé du véhicule doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Exemple de raccordement 2

Remarques **(2-A)**

- *Raccordez d'abord le câble de mise à la masse avant de connecter l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

Schéma de raccordement 3

A Vers la prise AMP REMOTE IN d'un amplificateur de puissance facultatif
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.

B Vers le câble d'interface d'un téléphone de voiture

Avertissement

Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni ③ risque d'endommager l'antenne.

Remarques sur les câbles de commande et d'alimentation

- *Le câble de commande d'antenne électrique (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (informations de circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW (PO)/LW (GO) intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne électrique (bleu) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes des haut-parleurs droit à celles des haut-parleurs gauche.*
- *Ne pas raccorder le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.*
- *Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés (–) installés dans votre voiture si l'appareil dispose d'un câble négatif commun pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les haut-parleurs et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont raccordés correctement.

Attenzione

Assicurarsi di installare l'apparecchio nel cruscotto dell'auto, poiché la parte posteriore dell'apparecchio stesso si surriscalda durante l'uso.

- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di alimentazione ③ all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliaria.
- **Portare tutti i cavi di messa a terra a un punto di massa comune.**
- Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato utilizzando del nastro adesivo.

Note sul cavo di alimentazione (giallo)

- Se questo apparecchio viene collegato in combinazione con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

Esempio di collegamento 2

Note **(2-A)**

- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *L'allarme viene emesso solo se è in uso l'amplificatore incorporato.*

Schema di collegamento 3

A A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

B Al cavo di interfaccia di un telefono per auto

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione ③, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

Note sui cavi di controllo e di alimentazione

- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori

- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Nota sui collegamenti
Se l'amplificatore e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.

Let op

Installeer dit apparaat in het dashboard van de auto omdat de achterkant van het apparaat tijdens gebruik heet kan worden.

- Dit apparaat is ontworpen voor gebruik op een auto-accu van 12 V gelijkstroom, negatieve aarde.
- Zorg ervoor dat de draden niet onder een schroef of tussen bewegende onderdelen (bv. rail van de autostoel) terechtkomen.
- Voordat u de aansluitingen maakt, moet u het contact uitzetten om kortsluiting te vermijden.
- Sluit de voedingskabel ③ aan op het apparaat en de luidsprekers voordat u de kabel aansluit op de hulpvoedingsaansluiting.
- **Sluit alle aardingskabels op een gemeenschappelijk aardpunt aan.**
- Voorzie niet-aangesloten kabels om veiligheidsredenen altijd van isolatietape.

Opmerkingen bij de voedingskabel (geel)

- Wanneer u dit apparaat aansluit samen met andere componenten, moet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het apparaat rechtstreeks aansluiten op de accu.

Voorbeeldaansluitingen 2

Opmerkingen **(2-A)**

- *Sluit eerst de aarddraad aan voordat u de versterker aansluit.*
- *U hoort de pieptoon alleen als de ingebouwde versterker wordt gebruikt.*

Aansluitschema 3

A Naar AMP REMOTE IN van een optionele eindversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.

B Naar het interface-snoer van een autotelefoon

Waarschuwing

Indien u een elektrische antenne hebt zonder relaiskast, kan het aansluiten van dit apparaat met de bijgeleverde voedingskabel ③ de antenne beschadigen.

Opmerkingen over de bedienings- en voedingskabels

- *De bedieningskabel voor de elektrische antenne (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternative Frequency) of TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/zijruit, moet u de bedieningskabel voor de elektrische antenne (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.*

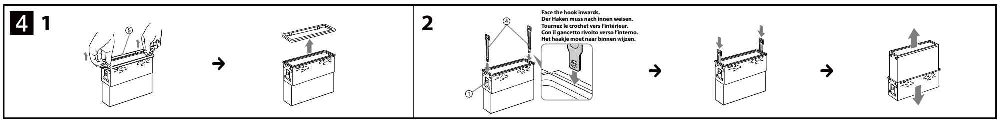
Instandhouden van het geheugen
Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

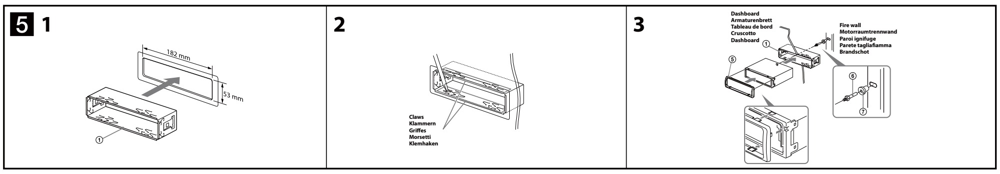
Opmerkingen betreffende het aansluiten van de luidsprekers

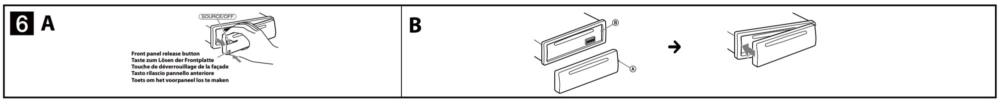
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als u dit niet doet, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.*
- *Verbind de aarddraad van dit apparaat niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter- en linkerluidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

Opmerking over aansluiten
Als de luidspreker en versterker niet correct zijn aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.

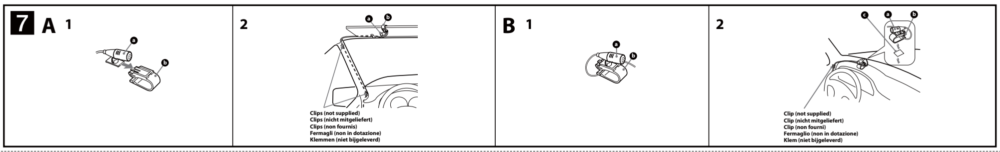
MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U







(BT4000U)



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.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket 4

Before installing the unit, remove the protection collar ⑤ and the bracket ① from the unit.

1. **Remove the protection collar ⑤.**
   Pinch both edges of the protection collar ⑤, then pull it out.
2. **Remove the bracket ①.**
   ❶ Insert both release keys ④ together between the unit and the bracket ① until they click.
   ❷ Pull down the bracket ①, then pull up the unit to separate.

Mounting example 5

Installation in the dashboard

Notes
- *Bend these claws outward for a tight fit, if necessary (5-2).*
- *Make sure that the 4 catches on the protection collar ⑤ are properly engaged in the slots of the unit (5-3).*

How to detach and attach the front panel 6

Before installing the unit, detach the front panel.

6-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press the front panel release button, and pull it off towards you.

6-B To attach

Engage part Ⓐ of the front panel with part Ⓑ of the unit, as illustrated, and push the left side into position until it clicks.

(BT4000U)

Installing the microphone 7

To capture your voice during handsfree calling, you need to install the microphone (supplied).

Cautions
- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from obstructing your driving.
- 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.

7-A Installing on the sun visor

1. **Install the microphone ⓐ on the clip ⓑ.**
2. **Install the clip ⓑ on the sun visor.**
3. **Install clips (not supplied) and adjust the length and position of the cord so that it does not obstruct your driving.**

7-B Installing on the dashboard

1. **Install the microphone ⓐ on the clip ⓑ, then place the cord along the groove of the clip ⓑ.**
2. **Attach the clip ⓑ to the dashboard with the double-sided tape ⓒ.**
3. **Install a clip (not supplied) and adjust the length and position of the cord so that it does not obstruct your driving.**

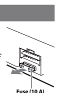
Notes
- *Before attaching the double-sided tape ⓒ, clean the surface of the dashboard with a dry cloth.*
- *Adjust the microphone angle to the proper position.*
- *The microphone ⓐ can be installed without using the clip ⓑ.*
  In this case, directly attach the microphone to the dashboard with the double-sided tape ⓒ. Keep the unused clip ⓑ for future use.

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (SOURCE/OFF) until the display disappears each time you turn the ignition off.

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.


Fuse (10 A)

Sicherheitshinweise

- Wählen Sie den Einbauort sorgfältig so aus, dass das Gerät beim Fahren nicht hinderlich ist.
- Bauen Sie das Gerät so ein, dass es keinen hohen Temperaturen (keinem direkten Sonnenlicht, keiner Warmluft von der Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets die mitgelieferten Montageteile.

Hinweis zum Montagewinkel

Das Gerät sollte in einem Winkel von weniger als 45° montiert werden.

Abnehmen der Schutzumrandung und der Halterung 4

Nehmen Sie vor dem Installieren des Geräts die Schutzumrandung ⑤ und die Halterung ① vom Gerät ab.

1. **Entfernen Sie die Schutzumrandung ⑤.**
   Fassen Sie die Schutzumrandung ⑤ mit den Fingern an den Seitenkanten und ziehen Sie sie heraus.
2. **Entfernen Sie die Halterung ①.**
   ❶ Führen Sie beide Löseschlüssel ④ zwischen dem Gerät und der Halterung ① ein, bis sie mit einem Klicken einrasten.
   ❷ Ziehen Sie die Halterung ① nach unten und das Gerät nach oben, um die beiden zu trennen.

Montagebeispiel 5

Installation im Armaturenbrett

Hinweise
- *Falls erforderlich, biegen Sie diese Klammern für einen sicheren Halt nach außen (5-2).*
- *Achten Sie darauf, die 4 Verriegelungen an der Schutzumrandung ⑤ korrekt in die Aussparungen am Gerät einzusetzen (5-3).*

Abnehmen und Anbringen der Frontplatte 6

Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

6-A Abnehmen

Halten Sie vor dem Abnehmen der Frontplatte unbedingt (SOURCE/OFF) gedrückt. Drücken Sie die Taste zum Lösen der Frontplatte und ziehen Sie die Frontplatte auf sich zu und heraus.

6-B Anbringen

Setzen Sie Teil Ⓐ der Frontplatte wie in der Abbildung dargestellt an Teil Ⓑ des Geräts an und drücken Sie die linke Seite der Frontplatte an, bis sie mit einem Klicken einrastet.

Installieren des Mikrofons 7

Damit bei Freisprechanrufen Ihre Stimme übertragen werden kann, müssen Sie das Mikrofon (mitgeliefert) installieren.

Sicherheitshinweise
- Schützen Sie das Mikrofon vor extrem hohen Temperaturen und Feuchtigkeit.
- Es ist sehr gefährlich, wenn sich das Kabel um die Lenksäule oder den Schalthebel wickelt. Achten Sie unbedingt darauf, dass das Kabel und andere Teile beim Fahren nicht hinderlich sind.
- Wenn Ihr Auto mit Airbags oder anderen Aufprallschutzsystemen ausgestattet ist, wenden Sie sich vor der Installation an den Händler, bei dem Sie dieses Gerät erworben haben, oder an den Autohändler.

7-A Befestigung an der Sonnenblende

1. **Befestigen Sie das Mikrofon ⓐ am Clip ⓑ.**
2. **Bringen Sie den Clip ⓑ an der Sonnenblende an.**
3. **Bringen Sie Clips (nicht mitgeliefert) an und wählen Sie die Länge und Verlegung des Kabels so, dass es beim Fahren nicht hinderlich ist.**

7-B Befestigung am Armaturenbrett

1. **Befestigen Sie das Mikrofon ⓐ am Clip ⓑ und führen Sie das Kabel entlang der Kerbe des Clips ⓑ.**
2. **Bringen Sie den Clip ⓑ mit dem doppelseitigen Klebeband ⓒ am Armaturenbrett an.**
3. **Bringen Sie einen Clip (nicht mitgeliefert) an und wählen Sie die Länge und Verlegung des Kabels so, dass es beim Fahren nicht hinderlich ist.**

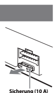
Hinweise
- *Reinigen Sie die Oberfläche des Armaturenbretts mit einem trockenen Tuch, bevor Sie das doppelseitige Klebeband ⓒ anbringen.*
- *Stellen Sie den Mikrofonwinkel nach Bedarf ein.*
- *Das Mikrofon ⓐ kann auch ohne Clip ⓑ befestigt werden.*
  Bringen Sie das Mikrofon in diesem Fall mit dem doppelseitigen Klebeband ⓒ direkt am Armaturenbrett an. Bewahren Sie den nicht verwendeten Clip ⓑ zum späteren Gebrauch auf.

Warnhinweis, wenn die Zündung Ihres Fahrzeugs nicht über eine Zubehörposition (ACC oder I) verfügt

Aktivieren Sie unbedingt die Abschaltautomatik. Näheres dazu finden Sie in der mitgelieferten Bedienungsanleitung.
Nach dem Ausschalten wird das Gerät dann nach der voreingestellten Zeit automatisch vollständig abgeschaltet, so dass der Autobatterie kein Strom mehr entzogen wird.
Wenn Sie die Abschaltautomatik nicht aktivieren, müssen Sie jedes Mal, wenn Sie die Zündung ausschalten, die Taste (SOURCE/OFF) gedrückt halten, bis die Anzeige ausgeblendet wird.

Austauschen der Sicherung

Wenn Sie eine Sicherung austauschen, achten Sie darauf, eine Ersatzsicherung mit dem gleichen Ampere-Wert wie die Originalsicherung zu verwenden. Dieser ist auf der Originalsicherung angegeben.
Wenn die Sicherung durchbrennt, überprüfen Sie den Stromanschluss und tauschen die Sicherung aus. Brennt die neue Sicherung ebenfalls durch, kann eine interne Fehlfunktion vorliegen. Wenden Sie sich in einem solchen Fall an Ihren Sony-Händler.


Sicherung (10 A)

Précautions

- Choisir soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du véhicule.
- Eviter d'installer l'appareil dans un endroit exposé à de la poussière, de la saleté, des vibrations violentes ou à des températures élevées, comme en plein soleil ou à proximité d'un conduit de chauffage.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 45°.

Retrait du tour de protection et du support 4

Avant d'installer l'appareil, retirez le tour de protection ⑤ et le support ① de l'appareil.

1. **Retirez le tour de protection ⑤.**
   Saisissez les deux bords du tour de protection ⑤, puis tirez pour l'extraire.
2. **Retirez le support ①.**
   ❶ Insérez les deux clés de déblocage ④ simultanément entre l'appareil et le support ① jusqu'au déclic indiquant qu'elles sont en place.
   ❷ Tirez le support ① vers le bas, puis tirez l'appareil vers le haut pour les séparer.

Exemple de montage 5

Installation dans le tableau de bord

Remarques
- *Pliez ces griffes vers l'extérieur pour assurer une prise correcte si nécessaire (5-2).*
- *Assurez-vous que les 4 loquets du tour de protection ⑤ sont correctement insérés dans les fentes de l'appareil (5-3).*

Retrait et fixation de la façade 6

Avant d'installer l'appareil, retirez la façade.

6-A Pour la retirer

Avant de détacher la façade, n'oubliez pas d'appuyer sur la touche (SOURCE/OFF) et de la maintenir enfoncée. Appuyez sur la touche de déverrouillage de la façade et détachez-la en la tirant vers vous.

6-B Pour la fixer

Fixez la partie Ⓐ de la façade sur la partie Ⓑ de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche jusqu'au déclic.

Installation du microphone 7

Pour capturer la voix pendant un appel en mains libres, vous devez installer le microphone (fourni).

Avertissements
- Conservez le microphone à l'abri de la chaleur et de l'humidité extrêmement élevées.
- Il est extrêmement dangereux que le cordon s'enroule autour de la colonne de direction ou du changement de vitesse. Veillez à ce que le cordon et les autres pièces n'entravent pas la conduite.
- Si votre véhicule est équipé d'airbags ou d'autres dispositifs d'absorption des chocs, contactez le revendeur de l'appareil ou votre concessionnaire avant de procéder à l'installation.

7-A Installation sur le pare-soleil

1. **Fixez le microphone ⓐ au clip ⓑ.**
2. **Fixez le clip ⓑ au pare-soleil.**
3. **Fixez des clips (non fournis), puis réglez la longueur et la position du cordon afin qu'il n'entrave pas la conduite.**

7-B Installation sur le tableau de bord

1. **Fixez le microphone ⓐ au clip ⓑ, puis placez le cordon dans la rainure du clip ⓑ.**
2. **Fixez le clip ⓑ au tableau de bord avec de l'adhésif double face ⓒ.**
3. **Fixez un clip (non fourni), puis réglez la longueur et la position du cordon afin qu'il n'entrave pas la conduite.**

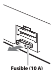
Remarques
- *Avant de fixer l'adhésif double face ⓒ, nettoyez la surface du tableau de bord avec un chiffon sec.*
- *Réglez l'angle du microphone sur la position correcte.*
- *Le microphone ⓐ peut être installé sans utiliser le clip ⓑ.*
  Dans ce cas, fixez le microphone directement au tableau de bord avec de l'adhésif double face ⓒ. Conservez le clip de réserve ⓑ en vue d'une utilisation ultérieure.

Avertissement au cas où le contact de votre voiture ne dispose pas d'une position ACC

Veillez à régler la fonction de mise hors tension automatique. Pour obtenir davantage d'informations, reportez-vous au mode d'emploi fourni.
L'appareil s'éteint complètement et automatiquement après le laps de temps choisi une fois l'appareil mis hors tension afin d'éviter que la batterie ne se décharge.
Si vous ne réglez pas la fonction de mise hors tension automatique, appuyez sur la touche (SOURCE/OFF) et maintenez-la enfoncée jusqu'à ce que l'affichage disparaisse à chaque fois que vous coupez le contact.

Remplacement du fusible

Lorsque vous remplacez le fusible, veillez à utiliser un fusible dont l'intensité, en ampères, correspond à la valeur indiquée sur le fusible usagé.
Si le fusible saute, vérifiez le branchement de l'alimentation et remplacez-le.
Si le nouveau fusible saute également, il est possible que l'appareil soit défectueux. Dans ce cas, consultez votre revendeur Sony le plus proche.


Fusible (10 A)

Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.

Regolazione dell'angolo di montaggio

Regolare l'angolo di montaggio in modo che sia inferiore a 45°.

Rimozione della staffa e della cornice protettiva 4

Prima di installare l'apparecchio, rimuovere la cornice protettiva ⑤ e la staffa ① dall'apparecchio.

1. **Rimuovere la cornice protettiva ⑤.**
   Afferrare la cornice di protezione ⑤ dai bordi laterali, quindi estrarla.
2. **Rimuovere la staffa ①.**
   ❶ Inserire contemporaneamente entrambe le chiavette di rilascio ④ tra l'apparecchio e la staffa ① fino a che non scattano in posizione.
   ❷ Estrarre la staffa ① quindi sollevare l'apparecchio per rimuoverlo.

Esempio di montaggio 5

Installazione nel cruscotto

Note
- *Piegare verso l'esterno questi morsetti per un'installazione più sicura, se necessario (5-2).*
- *Assicurarsi che i 4 fermi sulla cornice protettiva ⑤ siano correttamente inseriti negli alloggiamenti dell'apparecchio (5-3).*

Come rimuovere e reinserire il pannello anteriore 6

Prima di installare l'apparecchio rimuovere il pannello anteriore.

6-A Per rimuoverlo

Prima di staccare il pannello anteriore, assicurarsi di tenere premuto (SOURCE/OFF). Premere il tasto rilascio pannello anteriore, quindi tirare il pannello verso di sé.

6-B Per reinserirlo

Applicare la parte Ⓐ del pannello anteriore alla parte Ⓑ dell'apparecchio come mostrato nell'illustrazione e premere il lato sinistro fino a sentire uno scatto.

Installazione del microfono 7

Per catturare la voce durante le chiamate vivavoce, è necessario installare il microfono (in dotazione).

Attenzione
- Non sottoporre il microfono a temperature e umidità eccessivamente elevate.
- Se il cavo rimane avvolto al piantone dello sterzo o alla leva del cambio, possono verificarsi situazioni di estremo pericolo. Accertarsi quindi di posizionare il cavo e altri componenti in modo che non ostruiscano la guida.
- Se nell'auto sono presenti air-bag o altri dispositivi di assorbimento degli urti, prima dell'installazione contattare il negozio in cui è stato acquistato l'apparecchio o l'autoconcessionario.

7-A Installazione sull'aletta parasole

1. **Installare il microfono ⓐ sul fermaglio ⓑ.**
2. **Installare il fermaglio ⓑ sull'aletta parasole.**
3. **Installare i fermagli (non in dotazione) e regolare la lunghezza e la posizione del cavo in modo che non ostacoli la guida.**

7-B Installazione sul cruscotto

1. **Installare il microfono ⓐ sul fermaglio ⓑ, quindi inserire il cavo nella scanalatura del fermaglio stesso ⓑ.**
2. **Applicare il fermaglio ⓑ al cruscotto utilizzando il nastro biadesivo ⓒ.**
3. **Installare un fermaglio (non in dotazione) e regolare la lunghezza e la posizione del cavo in modo che non ostacoli la guida.**

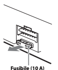
Note
- *Prima di applicare il nastro biadesivo ⓒ, pulire la superficie del cruscotto con un panno asciutto.*
- *Regolare l'angolazione del microfono sulla posizione corretta.*
- *È possibile anche installare il microfono ⓐ senza utilizzare il fermaglio ⓑ.*
  In questo caso, applicare direttamente il microfono al cruscotto utilizzando il nastro biadesivo ⓒ. Conservare il fermaglio inutilizzato ⓑ per usi futuri.

Avvertenza relativa all'installazione su un'auto sprovvista della posizione ACC (accessoria) sul blocchetto di accensione

Accertarsi di impostare la funzione di spegnimento automatico. Per ulteriori informazioni, fare riferimento alle istruzioni per l'uso in dotazione.
L'apparecchio si spegne completamente e automaticamente all'ora impostata dopo che è stato disattivato, onde evitare che la batteria si scarichi.
Se la funzione di spegnimento automatico non è stata impostata, ogni volta che il motore viene spento tenere premuto (SOURCE/OFF) finché il display non viene disattivato.

Sostituzione del fusibile

Per la sostituzione del fusibile, assicurarsi di utilizzare un fusibile dello stesso amperaggio di quello indicato sull'originale.
Se il fusibile si brucia, controllare i collegamenti dell'alimentazione e sostituire il fusibile.
Se dopo la sostituzione il fusibile si brucia di nuovo, è possibile che si tratti di un problema interno. In tal caso, rivolgersi al più vicino rivenditore Sony.


Fusibile (10 A)

Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het apparaat de bestuurder niet hindert tijdens het rijden.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen, bv. in direct zonlicht of bij de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in contact komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.

Maximale montagehoek

Installeer het apparaat nooit in een hoek van meer dan 45° met het horizontale vlak.

De beschermende rand en de beugel verwijderen 4

Voordat u het apparaat gaat installeren, moet u de beschermende rand ⑤ en de beugel ① verwijderen van het apparaat.

1. **Verwijder de beschermende rand ⑤.**
   Druk beide zijden van de beschermende rand ⑤ in en trek de rand naar u toe.
2. **Verwijder de beugel ①.**
   ❶ Plaats de ontgrendelingssleutels ④ tussen het apparaat en de beugel ① tot deze vastklikken.
   ❷ Trek de beugel ① omlaag en trek het apparaat omhoog om deze van elkaar te scheiden.

Montagevoorbeeld 5

Montage in het dashboard

Opmerkingen
- *Indien nodig kunt u deze klemhaken ombuigen voor een stevigere bevestiging (5-2).*
- *De 4 grepen op de beschermende rand ⑤ moeten goed in de sleuven van het apparaat zijn geplaatst (5-3).*

Het voorpaneel verwijderen en bevestigen 6

Verwijder, alvorens met het installeren te beginnen, het afneembare voorpaneel.

6-A Verwijderen

Voordat u het voorpaneel verwijdert, moet u (SOURCE/OFF) ingedrukt houden. Druk op de toets om het voorpaneel los te maken en trek het voorpaneel naar u toe.

6-B Bevestigen

Breng deel Ⓐ van het voorpaneel aan op deel Ⓑ van het apparaat zoals afgebeeld en druk op de linkerzijde tot deze vastklikt.

De microfoon installeren 7

Om uw stem te kunnen registreren tijdens het handsfree bellen, moet u de microfoon (bijgeleverd) installeren.

Opgelet
- Stel de microfoon niet bloot aan extreem hoge temperaturen of aan een hoge vochtigheidsgraad.
- Het is uiterst gevaarlijk als de kabel rond de stuurkolom of de versnellingspook verstrikt raakt. Zorg ervoor dat de kabel en andere onderdelen u niet kunnen hinderen tijdens het rijden.
- Als uw auto uitgerust is met airbags of andere schokdempende apparatuur, contacteert u de winkel waar u dit apparaat hebt gekocht of uw autodealer voor u het apparaat installeert.

7-A Bevestigen aan de zonneklep

1. **Bevestig de microfoon ⓐ aan de klem ⓑ.**
2. **Bevestig de klem ⓑ aan de zonneklep.**
3. **Gebruik klemmen (niet bijgeleverd) en pas de lengte en positie van de kabel aan zodat deze u niet hindert tijdens het rijden.**

7-B Bevestigen op het dashboard

1. **Bevestig de microfoon ⓐ aan de klem ⓑ en plaats de kabel in de gleuf in de klem ⓑ.**
2. **Bevestig de klem ⓑ op het dashboard met behulp van de dubbelzijdige kleefband ⓒ.**
3. **Gebruik een klem (niet bijgeleverd) en pas de lengte en positie van de kabel aan zodat deze u niet hindert tijdens het rijden.**

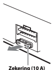
Opmerkingen
- *Voor u de dubbelzijdige kleefband vastmaakt ⓒ, reinigt u het oppervlak van het dashboard met een droge doek.*
- *Breng de microfoon in de juiste hoek.*
- *De microfoon ⓐ kan ook geïnstalleerd worden zonder de klem ⓑ te gebruiken.*
  Bevestig in dit geval de microfoon rechtstreeks op het dashboard met behulp van de dubbelzijdige kleefband ⓒ. Bewaar de ongebruikte klem ⓑ voor toekomstig gebruik.

Waarschuwing als het contactslot van de auto geen ACC-positie heeft

Zorg ervoor dat u de functie voor automatisch uitschakelen instelt. Raadpleeg de bijgeleverde gebruiksaanwijzing voor meer informatie.
Het apparaat wordt na de ingestelde tijd automatisch volledig uitgeschakeld nadat het apparaat is uitgeschakeld. Zo wordt voorkomen dat de accu leegloopt.
Als u de functie voor automatisch uitschakelen niet instelt, moet u (SOURCE/OFF) ingedrukt houden tot het display verdwijnt telkens wanneer u het contact uitschakelt.

Zekering vervangen

Vervang een zekering altijd door een exemplaar van een zelfde ampèrage als op de oorspronkelijke zekering wordt vermeld.
Als de zekering doorbrandt, moet u de voedingsaansluiting controleren en de zekering vervangen.
Brandt de zekering vervolgens nogmaals door, dan kan er sprake zijn van een defect in het apparaat. Raadpleeg in dat geval de Sony-dealer bij u in de buurt.


Zekering (10 A)

Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power supply lead.
After matching the connections and switched 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, please consult the car dealer.

Schéma de raccordement d'alimentation

Le connecteur d'alimentation auxiliaire peut varier suivant le type de voiture. Vérifiez le schéma du connecteur d'alimentation auxiliaire de votre voiture pour vous assurer que les connexions correspondent. Il en existe trois types de base (illustrés ci-dessous). Il se peut que vous deviez commuter la position des fils rouge et jaune du câble d'alimentation de l'autoradio.
Après avoir établi les connexions et commuté correctement les câbles d'alimentation, raccordez l'appareil à l'alimentation de la voiture. Si vous avez des questions ou des difficultés à propos de cet appareil qui ne sont pas abordées dans le présent mode d'emploi, consultez votre concessionnaire automobile.

Stromanschlussdiagramm

Der Hilfsstromanschluss kann je nach Fahrzeugtyp unterschiedlich sein. Sehen Sie im Hilfsstromanschlussdiagramm für Ihr Fahrzeug nach, wie die Verbindung ordnungsgemäß vorgenommen werden muss. Es gibt, wie unten abgebildet, drei grundlegende Typen. Sie müssen möglicherweise die rote und gelbe Leitung des Stromversorgungskabels der Autostereoanlage vertauschen.
Stellen Sie die Anschlüsse her, schließen Sie die geschalteten Stromversorgungsleitungen richtig an und verbinden Sie dann das Gerät mit der Stromversorgung Ihres Fahrzeugs. Wenn beim Anschließen des Geräts Fragen oder Probleme auftreten, die in dieser Anleitung nicht erläutert werden, wenden Sie sich bitte an den Autohändler.

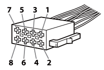
Diagramma dei collegamenti di alimentazione

Il connettore di alimentazione ausiliaria può variare a seconda della macchina. Controllare il diagramma del connettore di alimentazione ausiliaria della macchina per essere sicuri che i collegamenti corrispondano correttamente. Vi sono tre tipi di base (illustrazione sotto). Potrà essere necessario cambiare le posizioni dei fili rosso e giallo nel cavo di alimentazione dello stereo della macchina.
Dopo aver fatto corrispondere i collegamenti e aver commutato i cavi di alimentazione, collegare l'apparecchio all'alimentazione della macchina. Se si hanno domande o se sorgono problemi che non sono stati trattati nel manuale nel collegare l'apparecchio, contattare l'autoconcessionario.

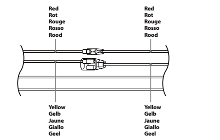
Voedingsaansluitschema

De hulpvoedingsaansluiting kan verschillen afhankelijk van de auto. Controleer het hulpvoedingsaansluitschema dat bij dit apparaat wordt geleverd om te zien of de aansluitingen kloppen. Er zijn drie basistypes (zie afbeelding hieronder). Het is mogelijk dat u de posities van de rode en gele kabels in de voedingskabel van het autoaudiosysteem moet omwisselen.
Als de aansluitingen en geschakelde voedingskabels kloppen, sluit u het apparaat aan op de voeding van de auto. Indien u nog vragen of problemen hebt in verband met het aansluiten van het apparaat die niet in deze handleiding worden behandeld, raadpleeg dan de autodealer.

Auxiliary power connector
Hilfsstromanschluss
Connecteur d'alimentation auxiliaire
Connettore di alimentazione ausiliaria
Hulpvoedingsaansluiting

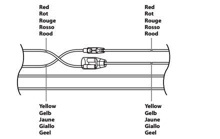


a



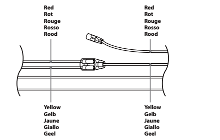
4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continue voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding

b



4	Yellow Gelb Jaune Giallo Geel	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding	7	Red Rot Rouge Rosso Rood	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continue voeding

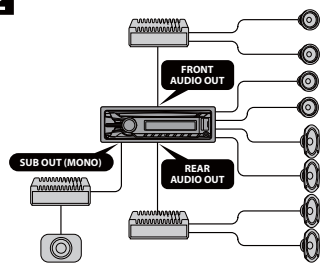
c



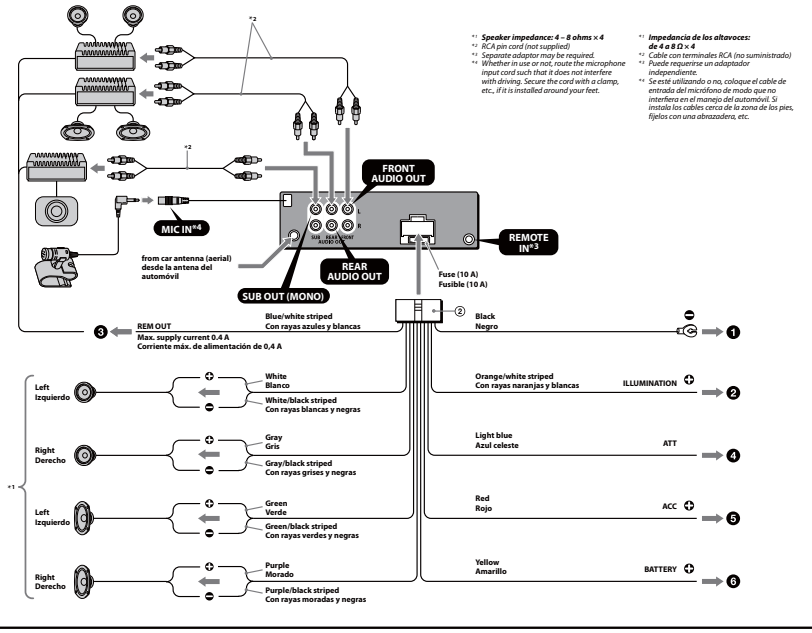
the car without ACC position
Fahrzeug ohne Zubehörposition (ACC oder I)
Véhicule sans position ACC
Auto priva della posizione ACC
Auto zonder ACC-positie

(MEX-BT4050U/BT4054U)

2



3



**1 Speaker impedance: 4 – 8 ohms × 4*
**2 RCA pin cord (not supplied)*
**3 Separate adaptor may be required.*
**4 Whether in use or not, route the microphone input cord such that it does not interfere with driving. Secure the cord with a clamp, etc., if it is installed around your feet.*

**1 Impedancia de los altavoces: de 4 a 8 Ω × 4*
**2 Cable con terminales RCA (no suministrado)*
**3 Puede requerirse un adaptador independiente.*
**4 Se esté utilizando o no, coloque el cable de entrada del micrófono de modo que no interfiera en el manejo del automóvil. Si instala los cables cerca de la zona de los pies, fíjelos con una abrazadera, etc.*

Cautions

Be sure to install this unit in the dashboard of the car as the rear side of the unit becomes hot during use.

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads 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 input leads only after all other leads have been connected.
- **Run all ground (earth) leads to a common ground (earth) point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

Notes

- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

Connection diagram 3

❶ **To a metal surface of the car**
First connect the black ground (earth) lead, then connect the yellow, and red power supply leads.

❷ **To a car's illumination signal**
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

❸ **To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**
Notes
- *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).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

To AMP. REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
  Be sure to connect the black ground (earth) lead to a metal surface of the car first.
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❻ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads

- *REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the unit.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

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

Notes on 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 its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Precauciones

Asegúrese de instalar la unidad en el tablero del automóvil, ya que la parte posterior de la unidad se calienta durante el uso.

- Esta unidad ha sido diseñada para alimentarse sólo con cc de 12 V de masa negativa.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p. ej. los rieles del asiento).
- Antes de realizar las conexiones, apague el automóvil para evitar cortocircuitos.
- Conecte los cables de fuente de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- **Conecte todos los cables de conexión a masa a un punto común.**
- Por razones de seguridad, asegúrese de aislar con cinta aislante los cables sueltos que no estén conectados.

Notas sobre el cable de fuente de alimentación (amarillo)

- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Ejemplo de conexiones 2

Notas

- *Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.*
- *La alarma sonará únicamente si se utiliza el amplificador incorporado.*

Diagrama de conexión 3

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.

❷ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

❸ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
Notas
- *Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil tiene una antena de FM/AM incorporada en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

A AMP REMOTE IN de un amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido**
Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- *Si el automóvil tiene una antena de FM/AM incorporada en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❻ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación

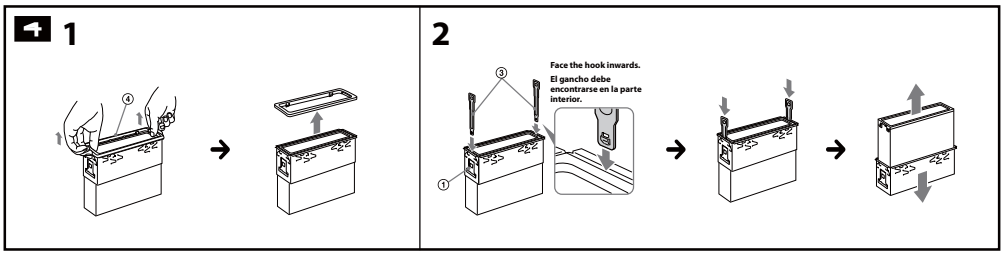
- *El cable REM OUT (sayado azul y blanco) suministra cc +12 V al encender la unidad.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable REM OUT (sayado azul y blanco) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más detalles, consulte a su distribuidor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

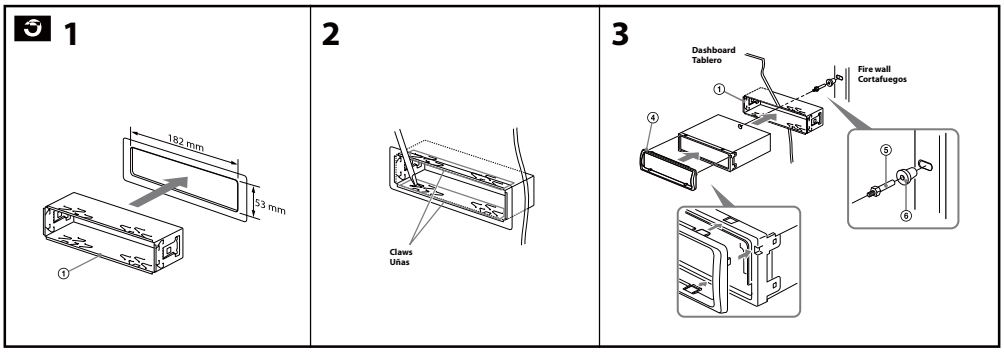
Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

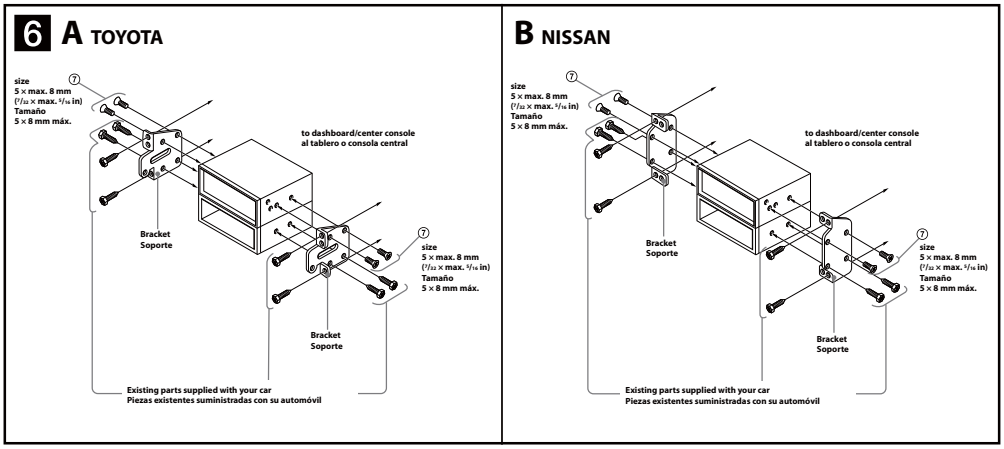
Notas sobre la conexión de los altavoces

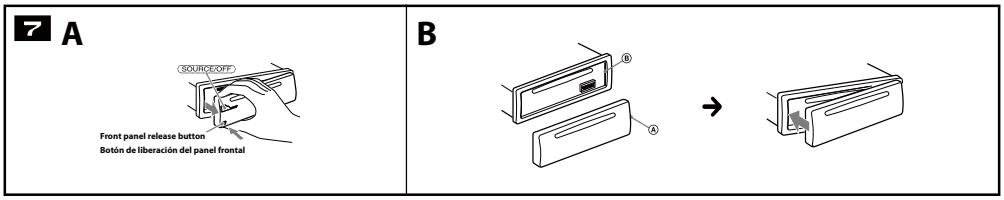
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.









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 temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket 4

Before installing the unit, remove the protection collar ④ and the bracket ① from the unit.

1. **Remove the protection collar ④.**
   Pinch both edges of the protection collar ④, then pull it out.
2. **Remove the bracket ①.**
   ❶ Insert both release keys ③ together between the unit and the bracket ① until they click.
   ❷ Pull down the bracket ①, then pull up the unit to separate.

Mounting example 5

Installation in the dashboard

Notes

- *Bend these claws outward for a tight fit, if necessary (B-2).*
- *Make sure that the 4 catches on the protection collar ④ are properly engaged in the slots of the unit (B-3).*

Mounting the unit in a Japanese car 6

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

Note

To prevent malfunction, install only with the supplied screws ⑦.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach

Before detaching the front panel, be sure to press and hold (SOURCE/OFF). Press the front panel release button, and pull it off towards you.

7-B To attach

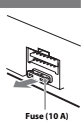
Engage part Ⓐ of the front panel with part Ⓑ of the unit, as illustrated, and push the left side into position until it clicks.

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions.
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (SOURCE/OFF) until the display disappears each time you turn the ignition off.

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.



Notes on the tuning step

- For how to set the tuning step, see the supplied Operating Instructions.
- If replacing the car battery or changing the connections, the tuning step setting will be erased.

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar estén a polvo, suciedad, vibraciones excesivas o altas temperaturas, por ejemplo, a la luz solar directa o cerca de conductos de calefacción.
- Para realizar una instalación segura y firme, utilice solamente elementos de instalación suministrados.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 45°.

Extracción del marco de protección y del soporte 4

Antes de instalar la unidad, retire el marco de protección ④ y el soporte ① de la misma.

1. **Retire el marco de protección ④.**
   Apriete ambos bordes del marco de protección ④ y, a continuación, tire de él hacia fuera.
2. **Retire el soporte ①.**
   ❶ Inserte ambas llaves de liberación ③ entre la unidad y el soporte ① hasta que encajen.
   ❷ Presione el soporte ① y, a continuación, levante la unidad para separar ambos elementos.

Ejemplo de montaje 5

Instalación en el tablero

Notas

- *Si es necesario, doble las uñas hacia fuera para que encaje firmemente (B-2).*
- *Compruebe que los 4 enganches del marco de protección ④ estén bien fijados en las ranuras de la unidad (B-3).*

Montaje de la unidad en un automóvil japonés 6

Es posible que no pueda instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su distribuidor Sony.

Nota

Para evitar que se produzcan fallas de funcionamiento, realice la instalación solamente con los tornillos suministrados ⑦.

Forma de extraer e instalar el panel frontal 7

Antes de instalar la unidad, extraiga el panel frontal.

7-A Para extraerlo

Antes de desconectar el panel frontal, asegúrese de mantener presionado (SOURCE/OFF). Presione el botón de liberación del panel frontal y extraiga el panel frontal hacia usted.

7-B Para instalarlo

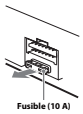
Coloque la parte Ⓐ del panel frontal en la parte Ⓑ de la unidad, como se muestra en la ilustración, y después presione la parte izquierda hasta que encaje.

Advertencia: si el encendido del automóvil no dispone de una posición ACC

Asegúrese de ajustar la función de desconexión automática. Para obtener más información, consulte el manual de instrucciones suministrado.
La unidad se apagará completa y automáticamente en el tiempo establecido después de que se desconecte la unidad, lo que evita que se desgaste la batería.
Si no ha ajustado la función de desconexión automática, mantenga presionado (SOURCE/OFF) cada vez que apague el interruptor de encendido, hasta que la pantalla desaparezca.

Sustitución del fusible

Al sustituir el fusible, asegúrese de utilizar uno cuyo amperaje coincida con el especificado en el original.
Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo.
Si el fusible vuelve a fundirse después de sustituirlo, es posible que exista alguna falla de funcionamiento interno. En tal caso, consulte con el distribuidor Sony más cercano.



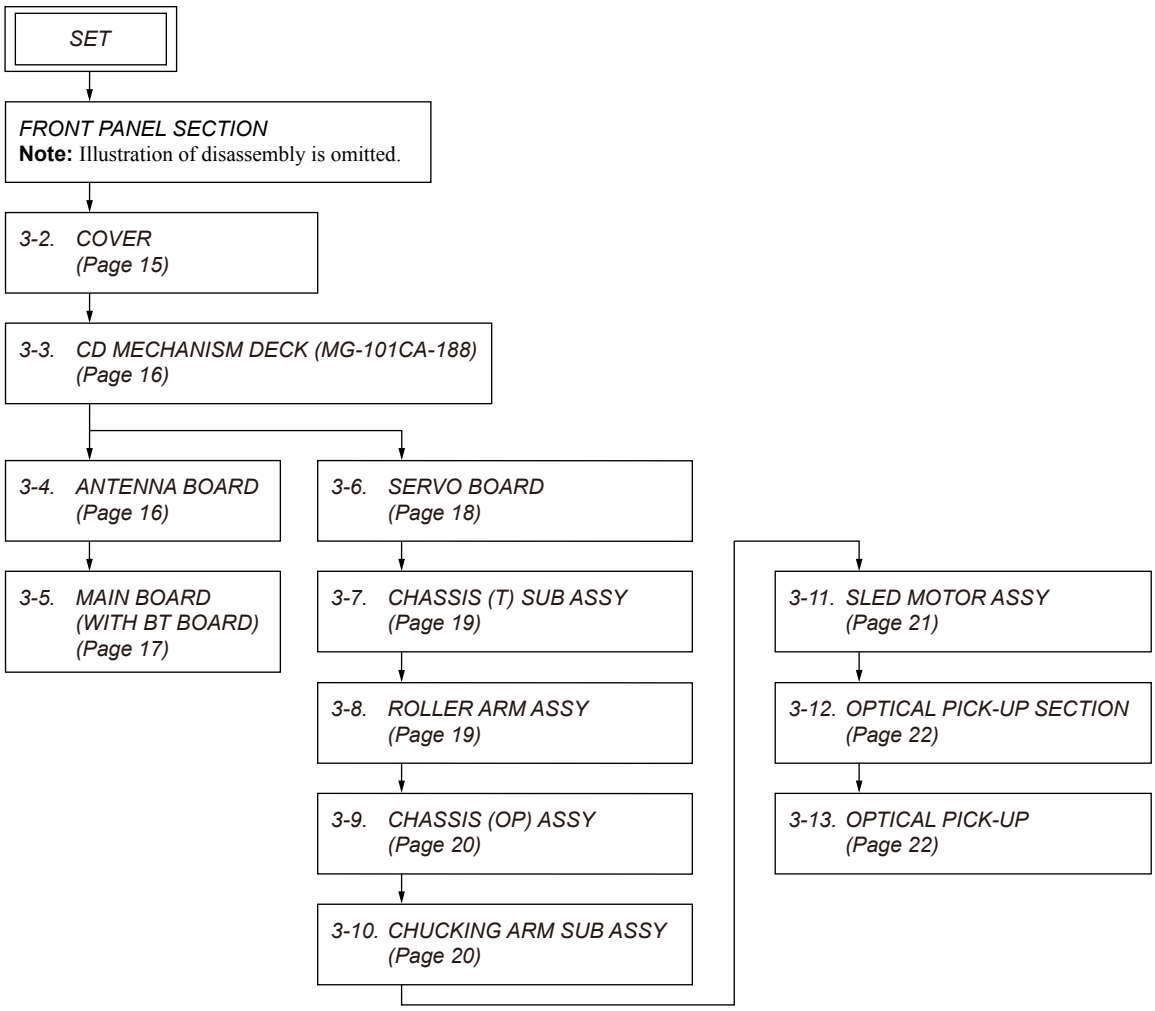
Notas acerca de la sintonización

- Para obtener información sobre cómo ajustar la sintonización, consulte el manual de instrucciones suministrado.
- Si se reemplaza la batería del automóvil o se cambian las conexiones, la configuración de la sintonización se borrará.

SECTION 3
DISASSEMBLY

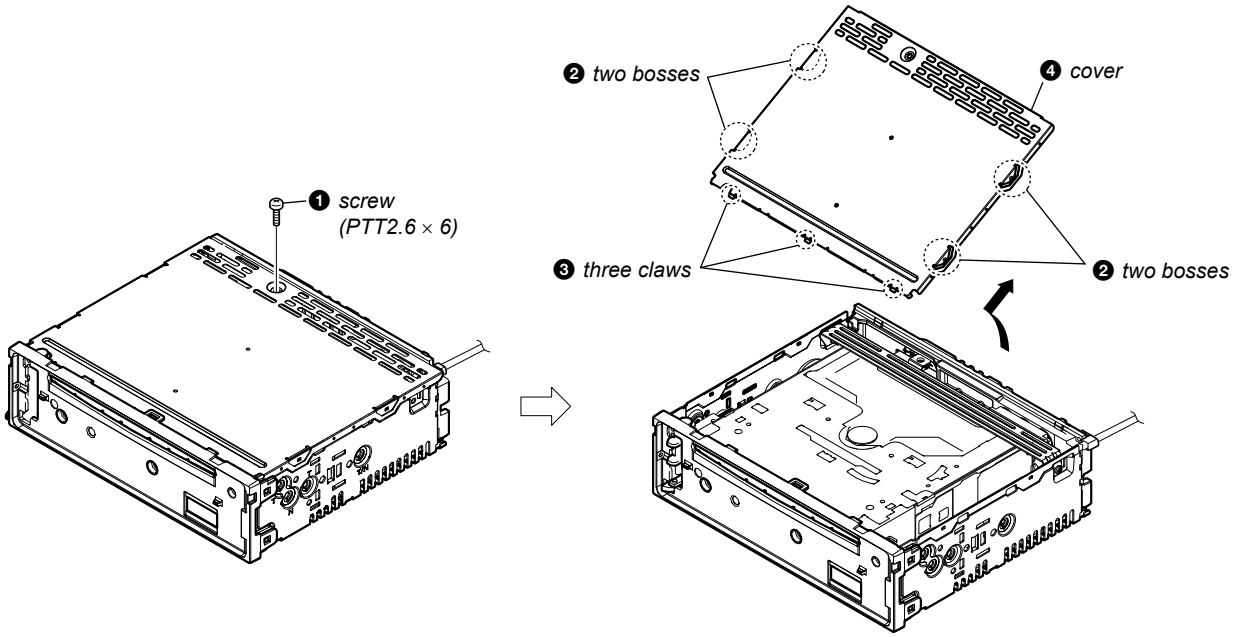
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

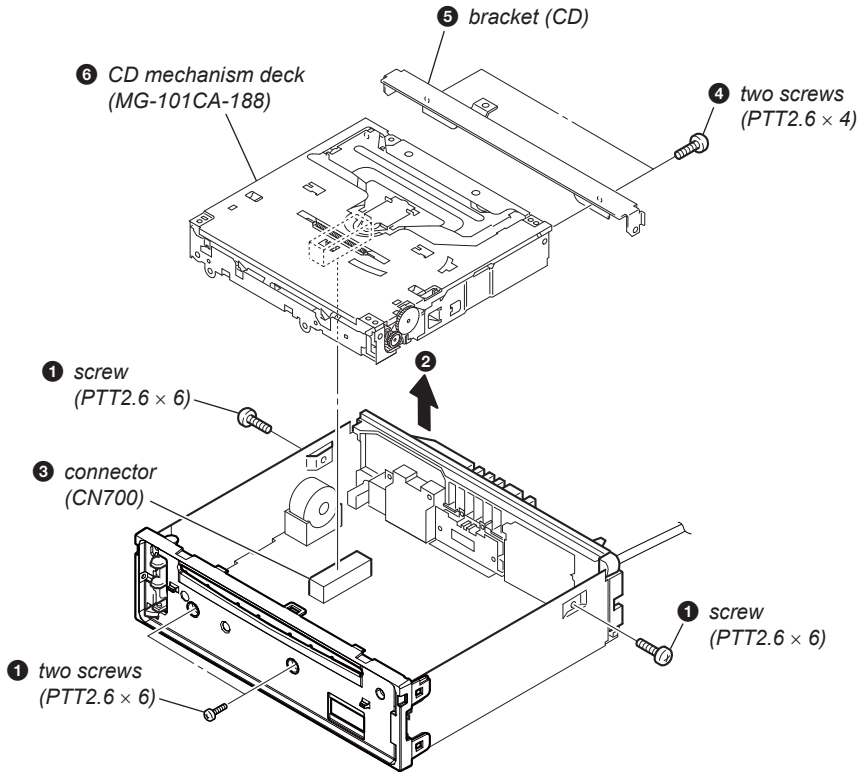


Note: Follow the disassembly procedure in the numerical order given.

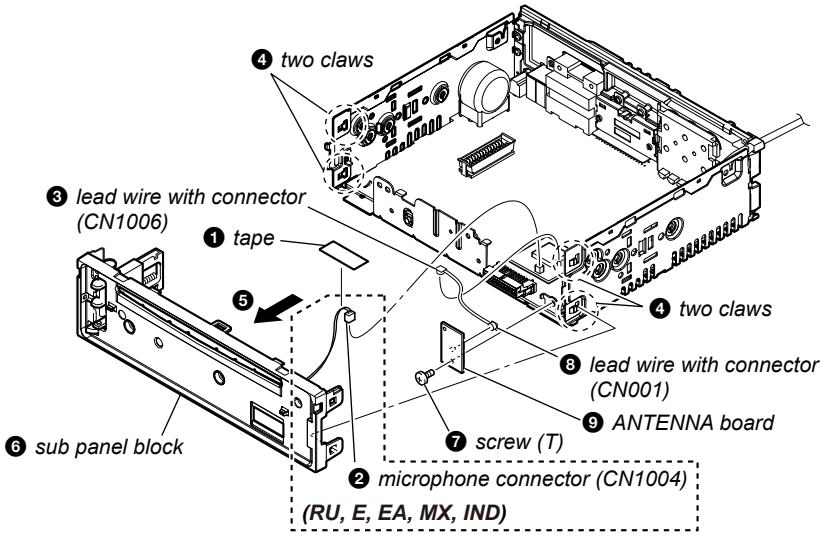
3-2. COVER

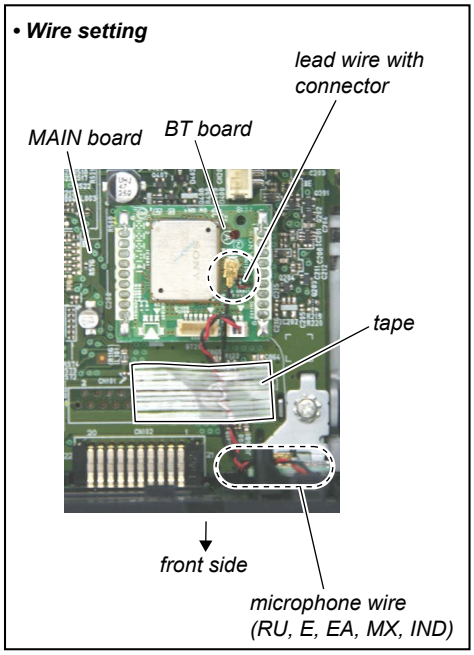


3-3. CD MECHANISM DECK (MG-101CA-188)



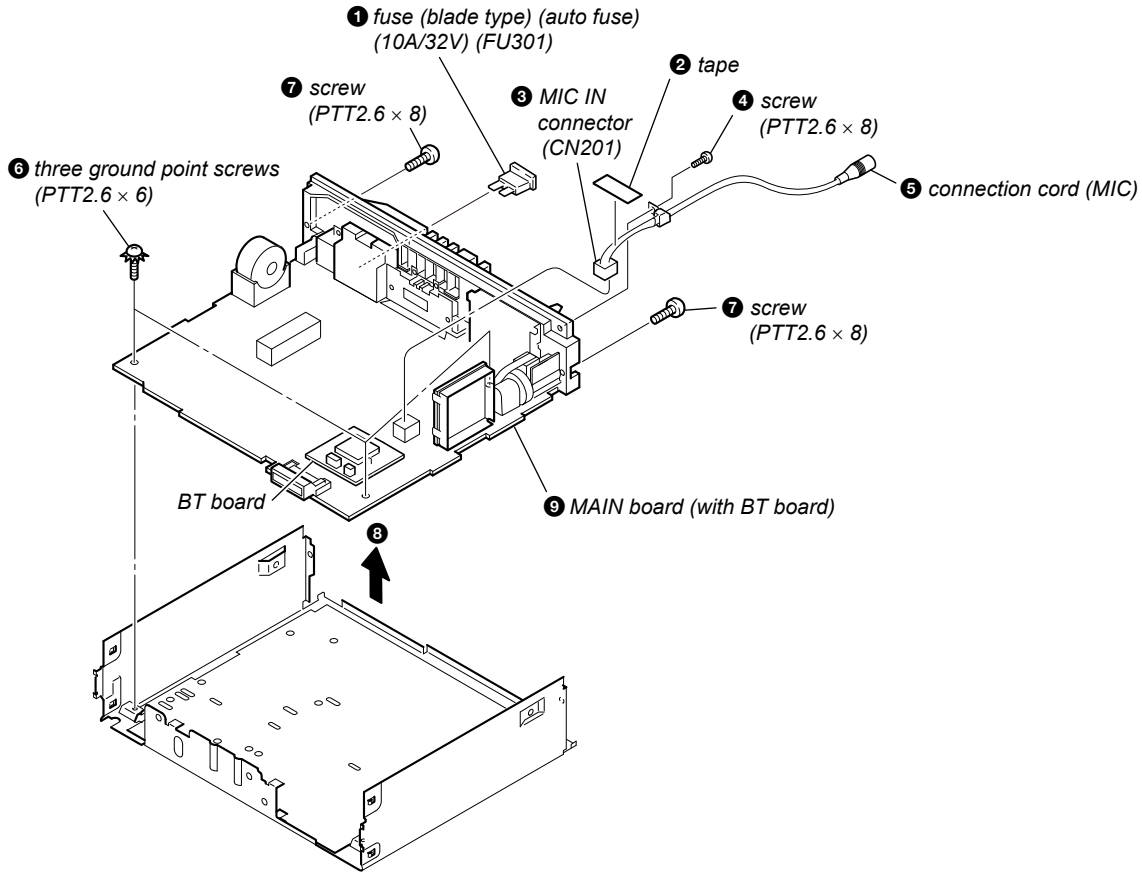
3-4. ANTENNA BOARD





- Abbreviation
  EA : Saudi Arabia model
  IND : Indian model
  MX : Mexican model
  RU : Russian model

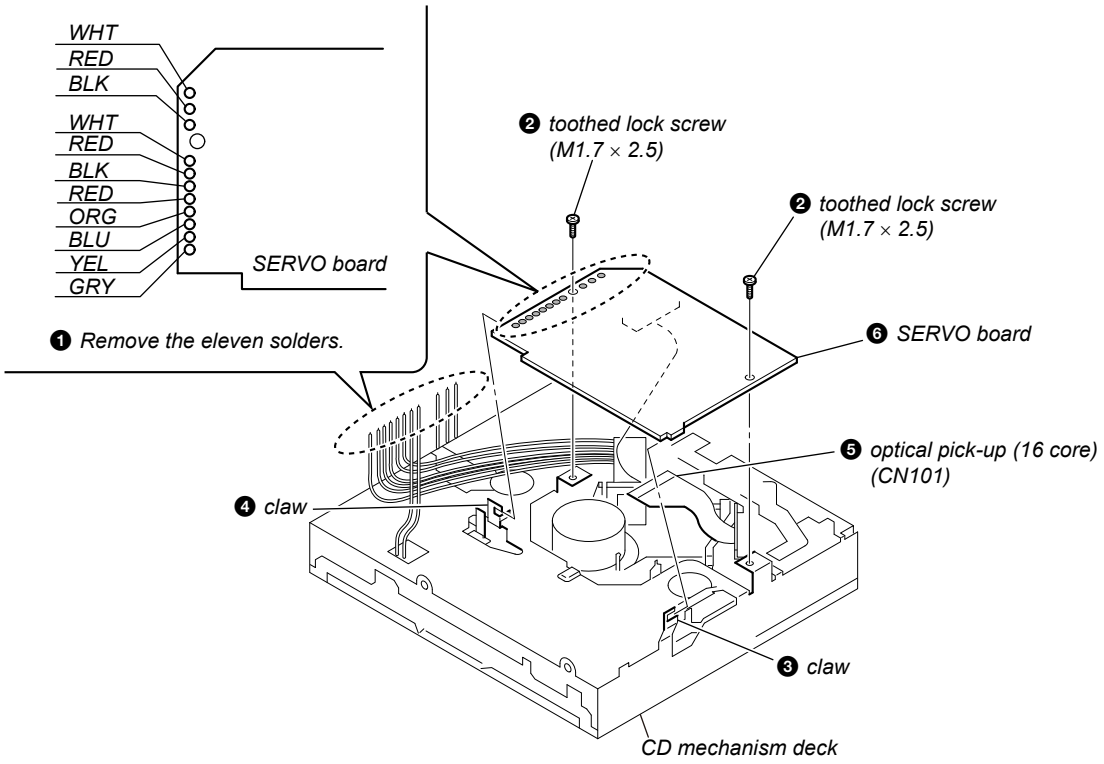
3-5. MAIN BOARD (WITH BT BOARD)



3-6. SERVO BOARD

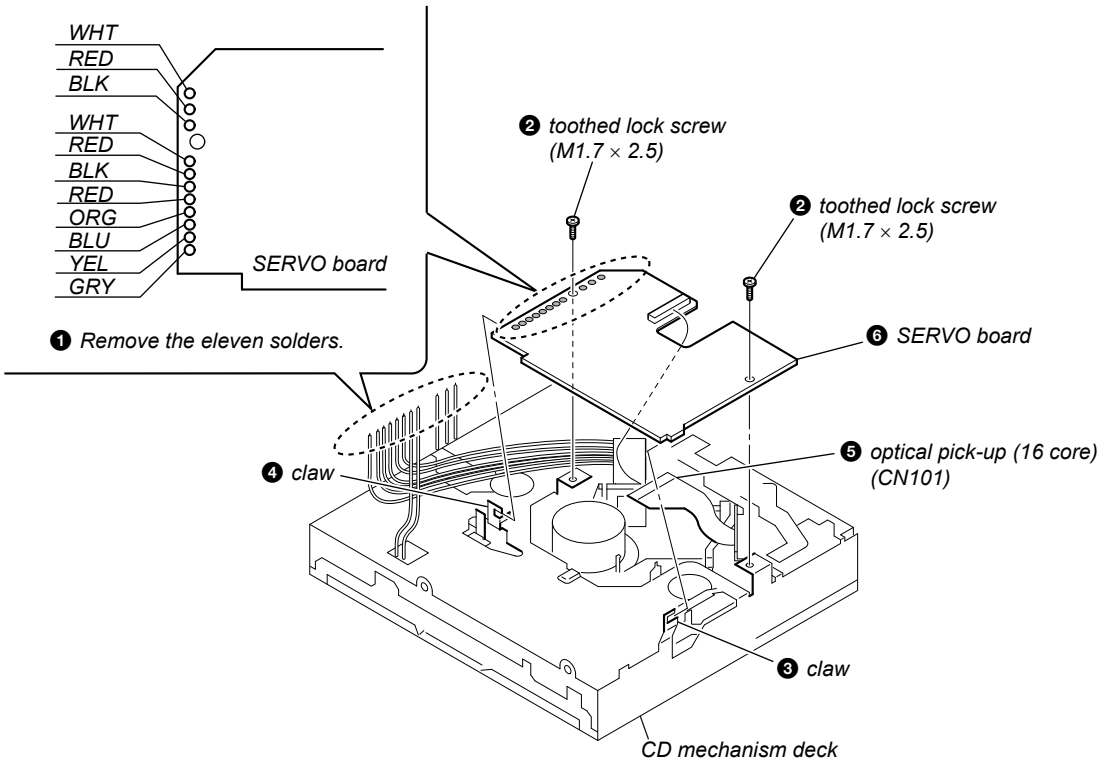
Note: In this unit, COMPLETE SERVO board has been changed in the midway of production. When replacing COMPLETE SERVO board, refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

• Former type



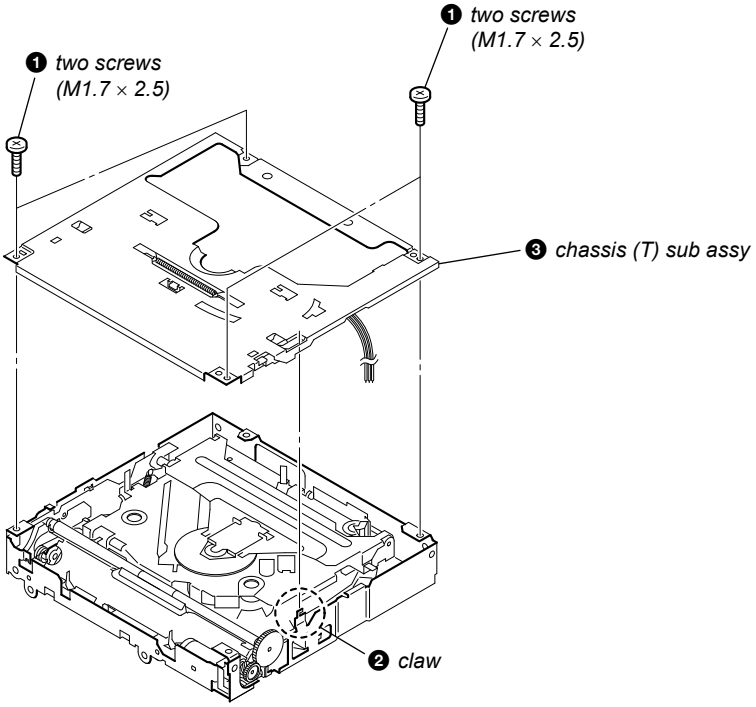
– CD mechanism deck bottom side view –

• New type

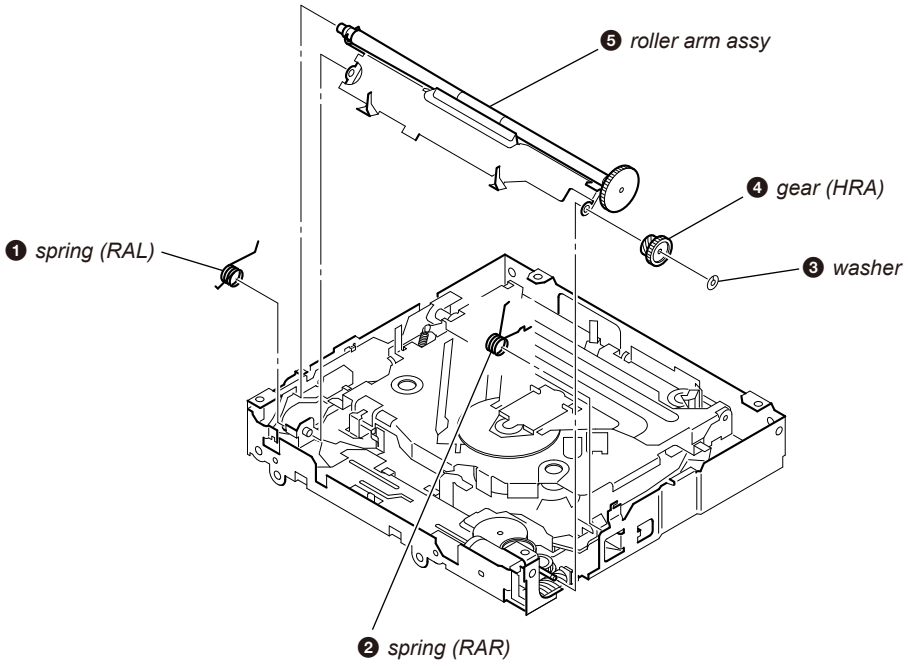


– CD mechanism deck bottom side view –

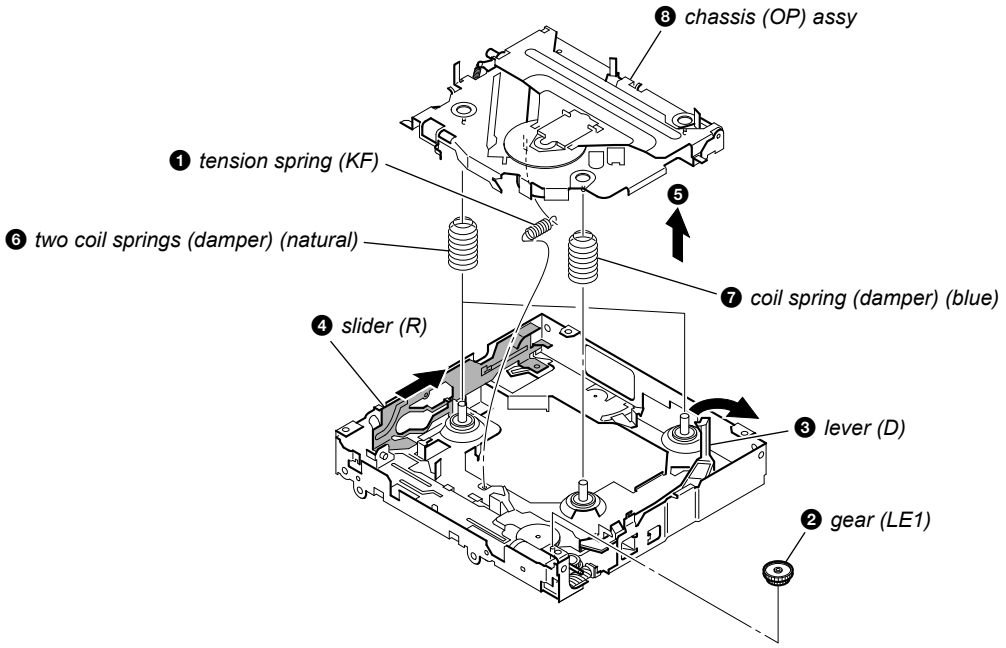
3-7. CHASSIS (T) SUB ASSY



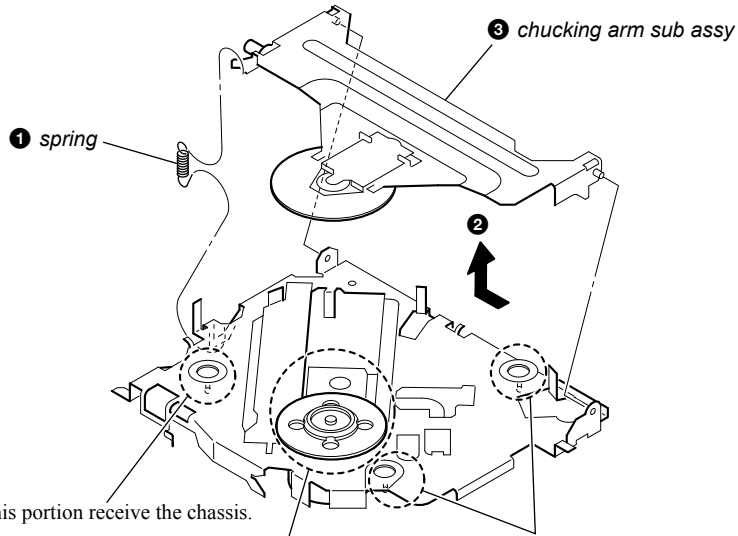
3-8. ROLLER ARM ASSY



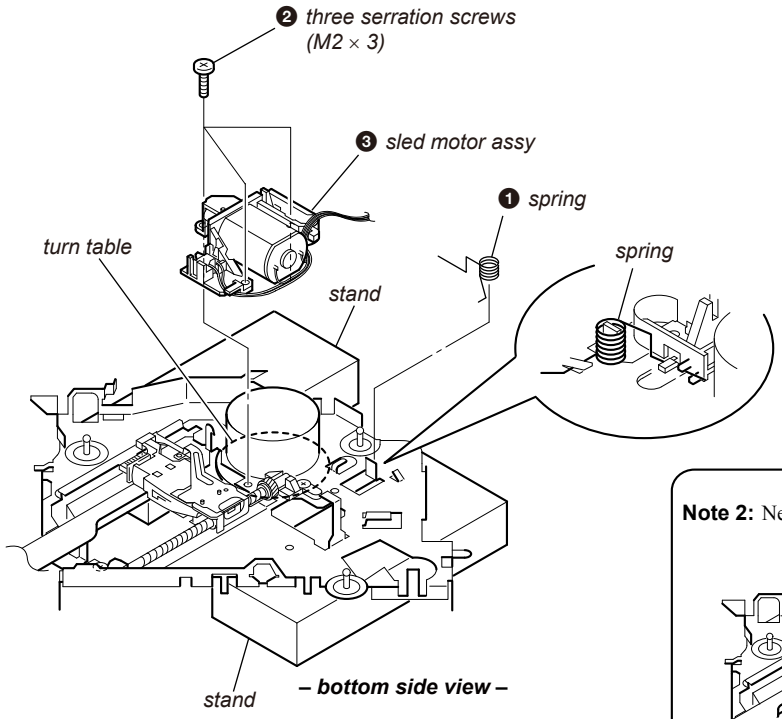
3-9. CHASSIS (OP) ASSY



3-10. CHUCKING ARM SUB ASSY

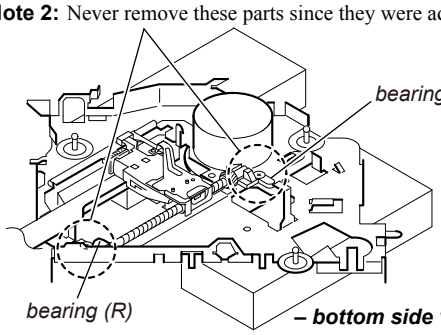


3-11. SLED MOTOR ASSY

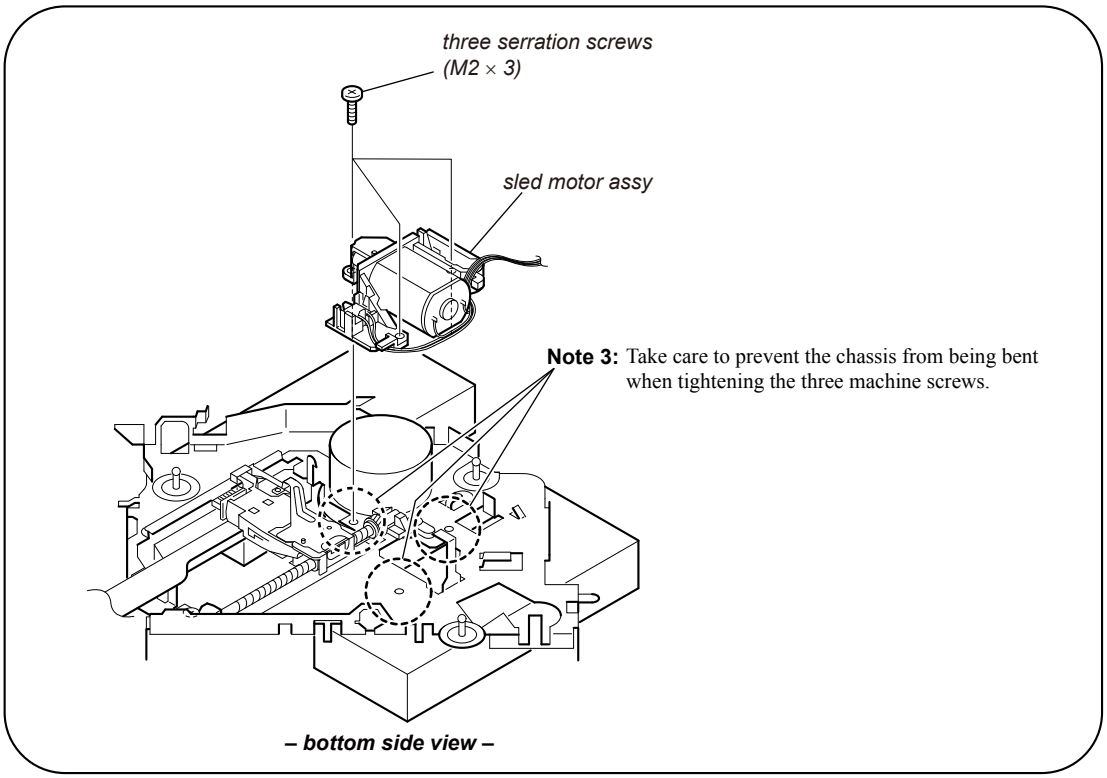


Note 1: Place the stand with care not to touch the turn table.

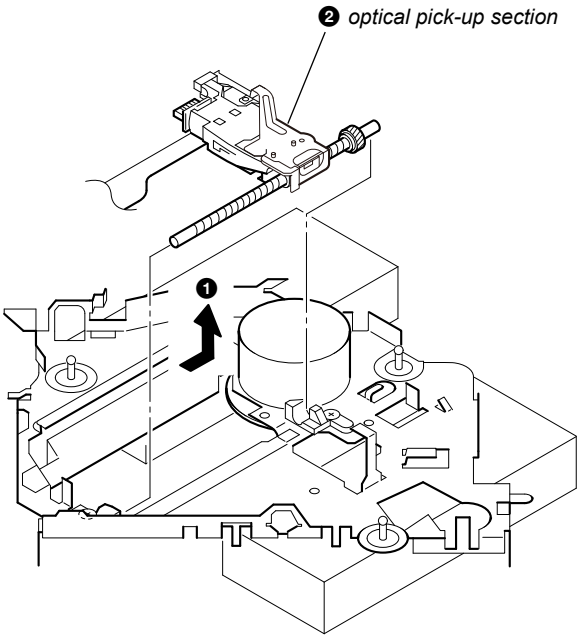
Note 2: Never remove these parts since they were adjusted.



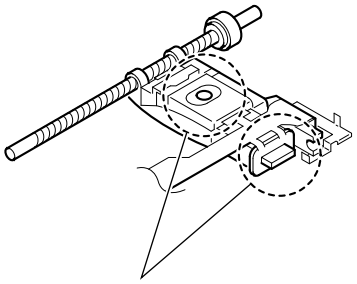
• Note for Assembly



3-12. OPTICAL PICK-UP SECTION

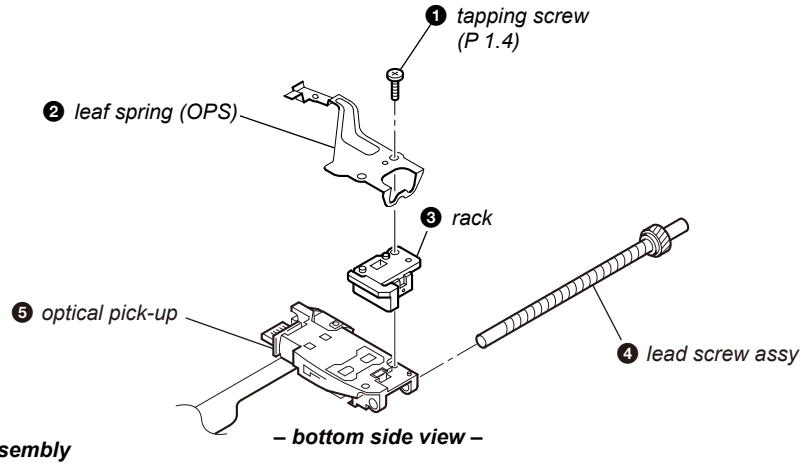


– bottom side view –



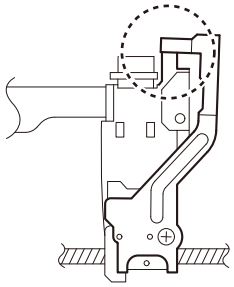
Note: Be careful not to touch the lens and hologram terminal when removing the optical pick-up section.

3-13. OPTICAL PICK-UP

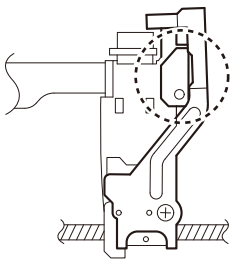


– bottom side view –

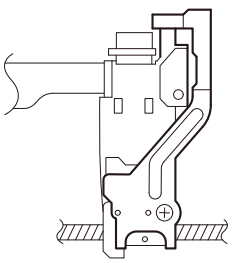
• Notes for Assembly



Prevent the end of the leaf spring (OPS) from being in contact with the OP slide base.



Prevent the end of the leaf spring (OPS) from being in contact with the OP slide base.



There is space at the end of the leaf spring (OPS) to avoid contact with the slide.

SECTION 4
TEST MODE

SETTING THE TEST MODE

Setting method:

1. Press the [SOURCE/OFF] button for 1 second to turn the power off.
2. Press the [4] → [5] → [1] buttons sequentially (the [1] button is pressed for two seconds).
3. It is set to the test mode, and all segments of the liquid crystal display light.

Releasing method:

Press the [SOURCE/OFF] button for 1 second.

MICROPHONE AUDIO LOOPBACK

To confirm the state of the external microphone/internal 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 [SOURCE/OFF] button to select the Bluetooth Phone function.
3. On/off of the microphone audio loopback function changes whenever the [2] button is pressed (“ALBM” is displayed in the liquid crystal display).

LOOPBACK	ALBM
ON	Lit
OFF	None

THE EXTERNAL MICROPHONE DETECTION STATE DISPLAY

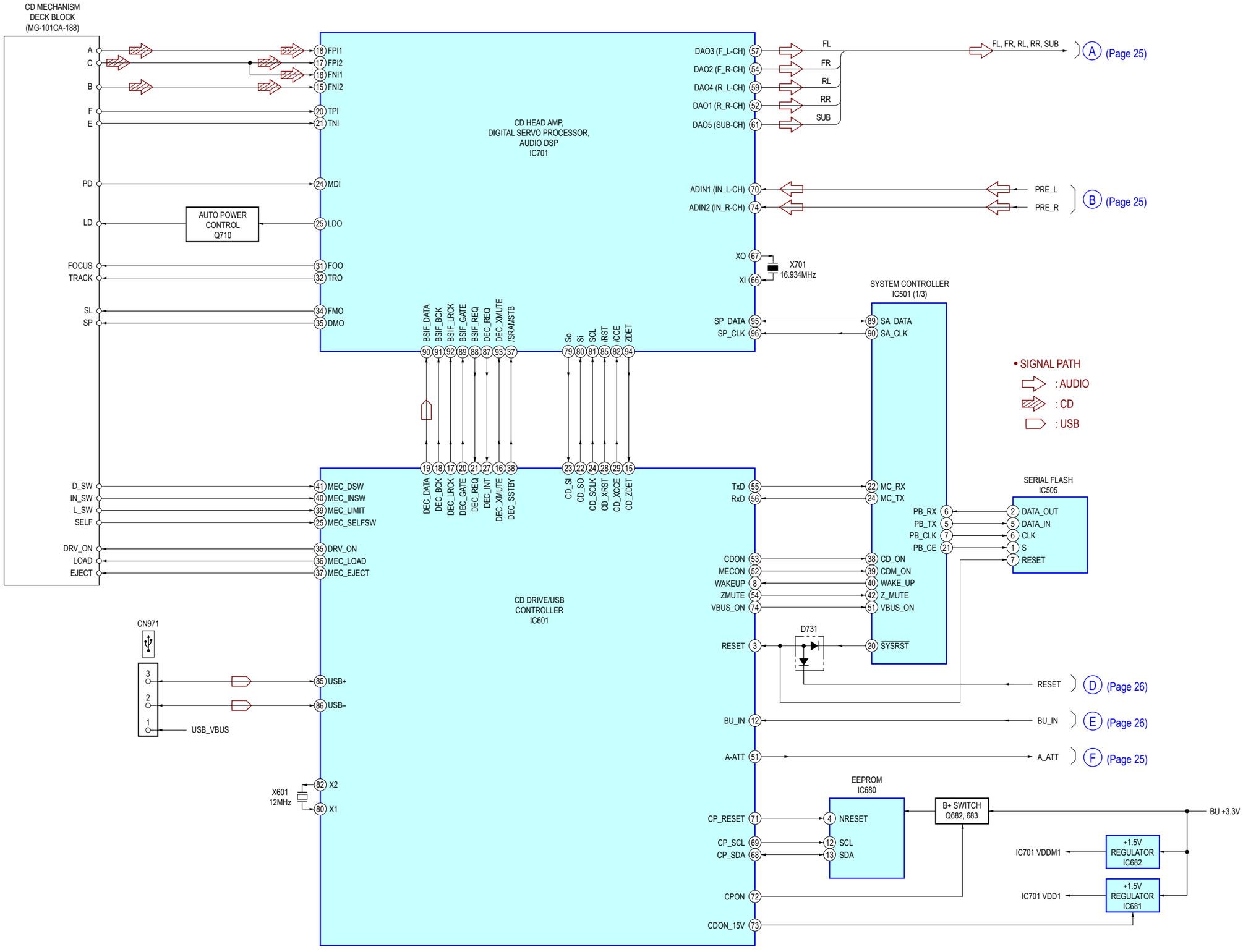
Connected confirmation of the external microphone detection line is done.
The trouble that doesn't change into an external microphone occurs when this detection circuit is broken.

Procedure:

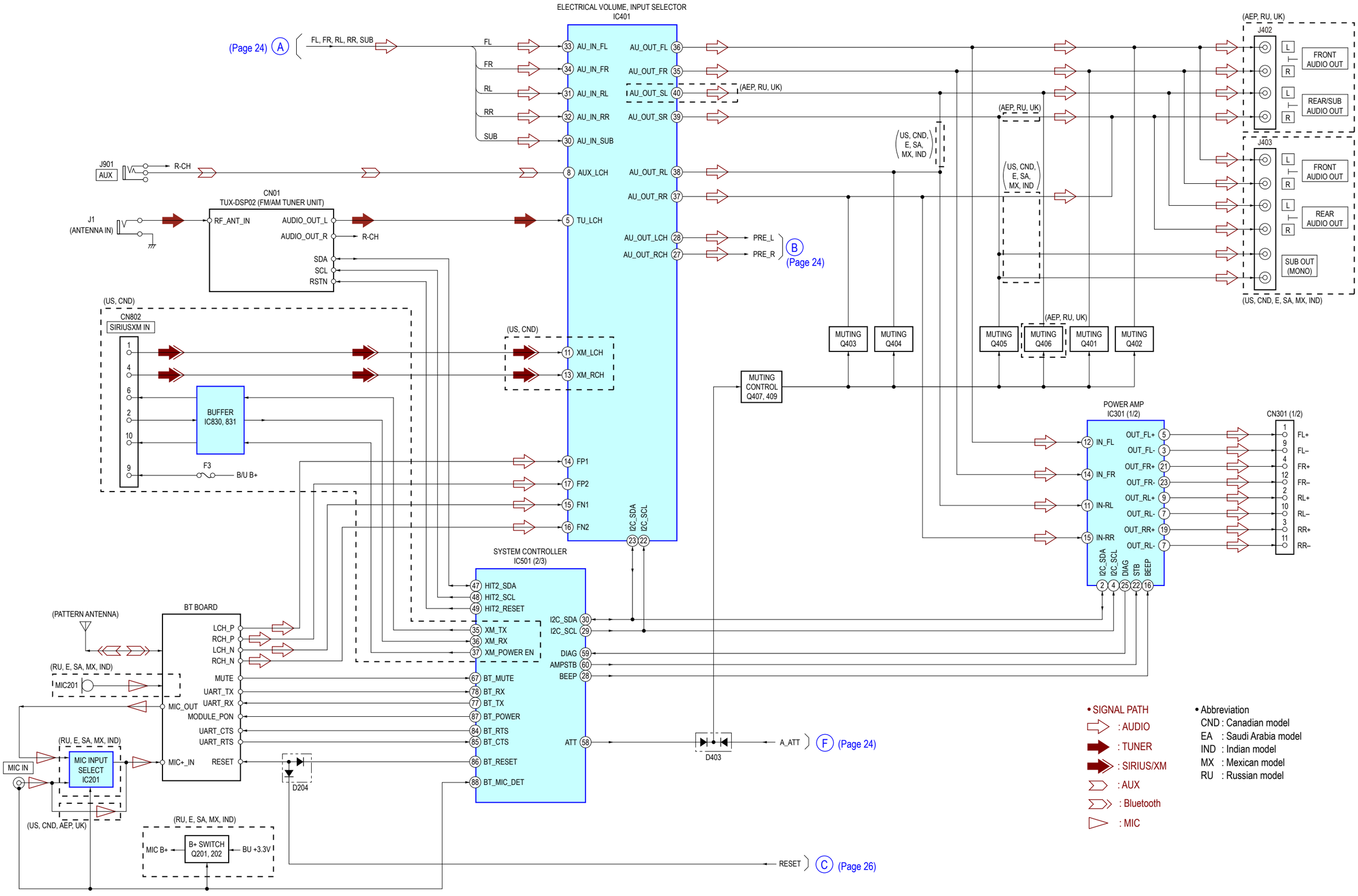
1. Enter the test mode.
2. Press the [SOURCE/OFF] button to select the Bluetooth Phone function.
3. Plug in the external microphone into the MIC IN terminal.
4. The detection state of the external microphone is displayed in the liquid crystal display (“TRACK” is displayed).
   For MEX-BT4000P/BT4000U “TRACK” still show every time when pull out and pull in external microphone.

SECTION 5
DIAGRAMS

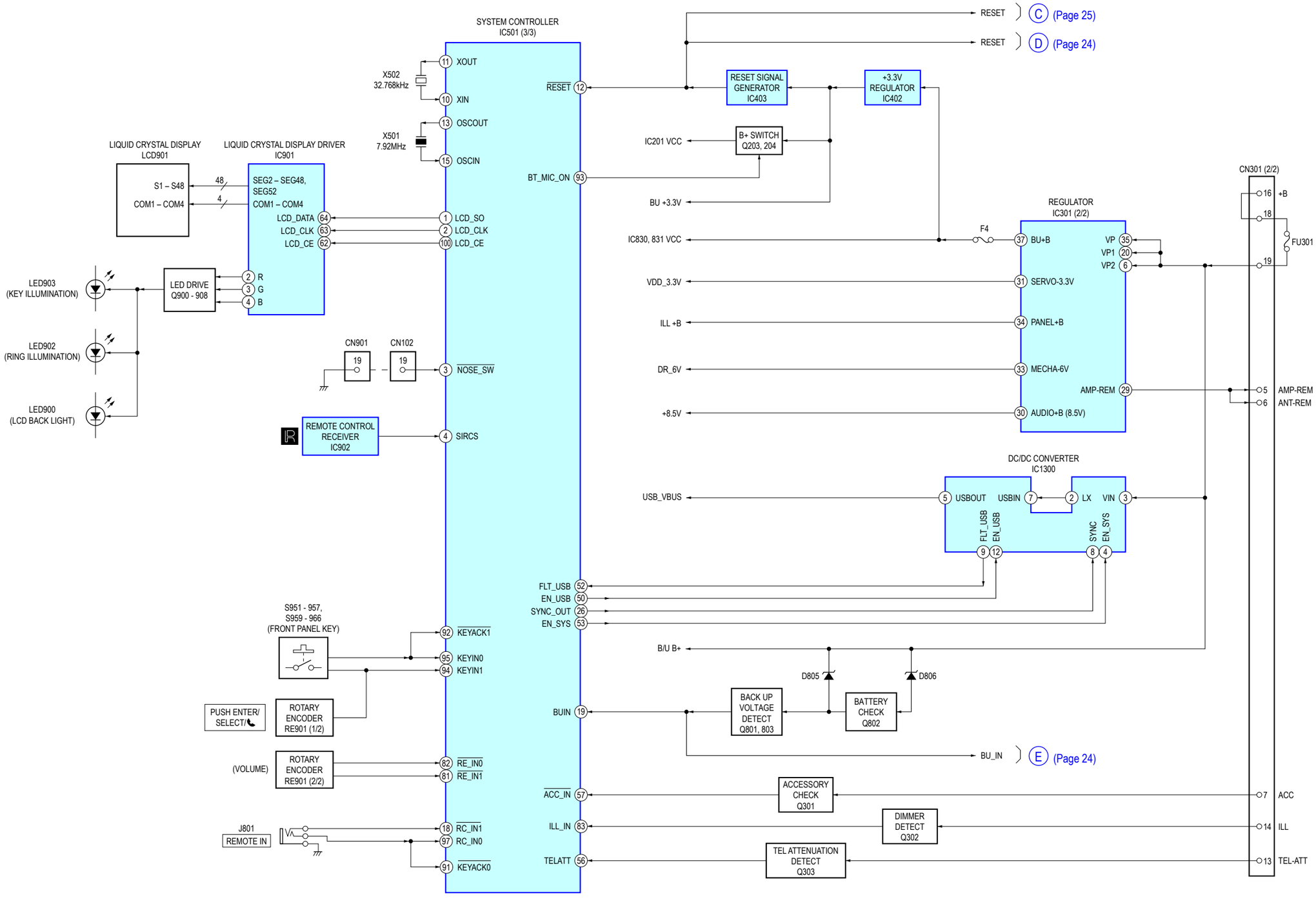
5-1. BLOCK DIAGRAM - CD SERVO Section -



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.

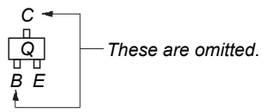
Note:

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

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  IND : Indian model
  MX : Mexican model
  RU : Russian model

Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

For Schematic Diagrams.

Note:

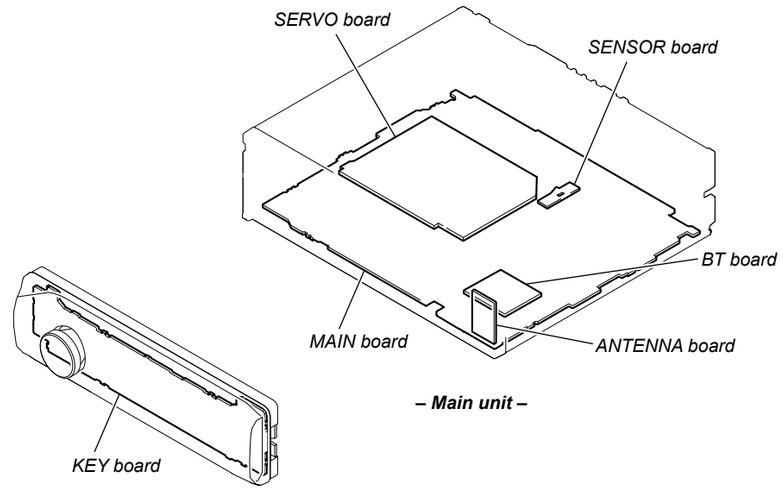
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭: Panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	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 conditions.
  no mark: TUNER (FM)
  ( ): CD PLAY
  ∗ : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ). 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
  : CD
  : USB
  : SIRIUS/XM
  : AUX
  : Bluetooth
  : MIC
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  IND : Indian model
  MX : Mexican model
  RU : Russian model

Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

• Circuit Boards Location



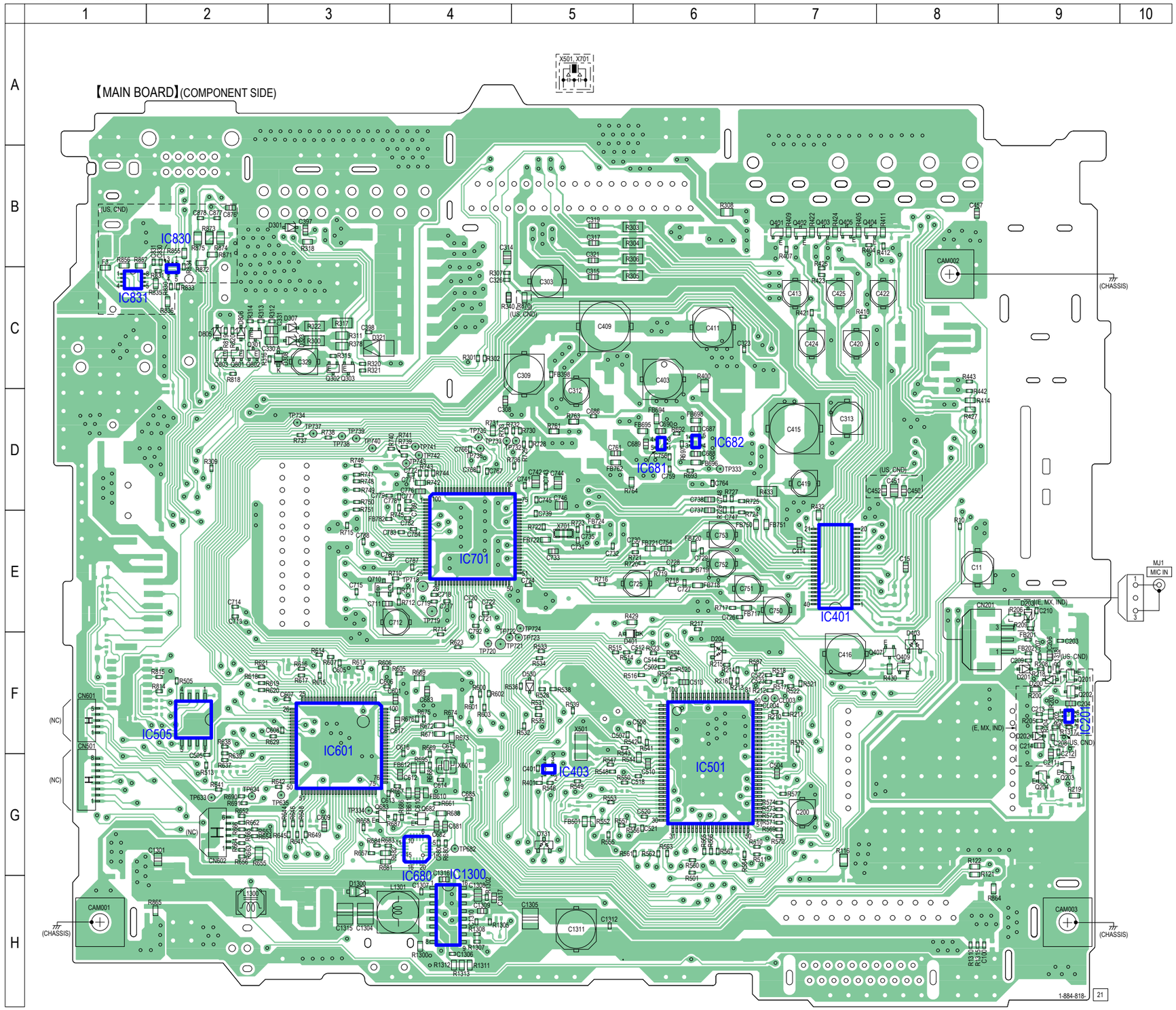
– Main unit –

– Front panel –

5-4. PRINTED WIRING BOARD - MAIN Section (1/2) (US, Canadian, E, Mexican and Indian models) -

• See page 27 for Circuit Boards Location.

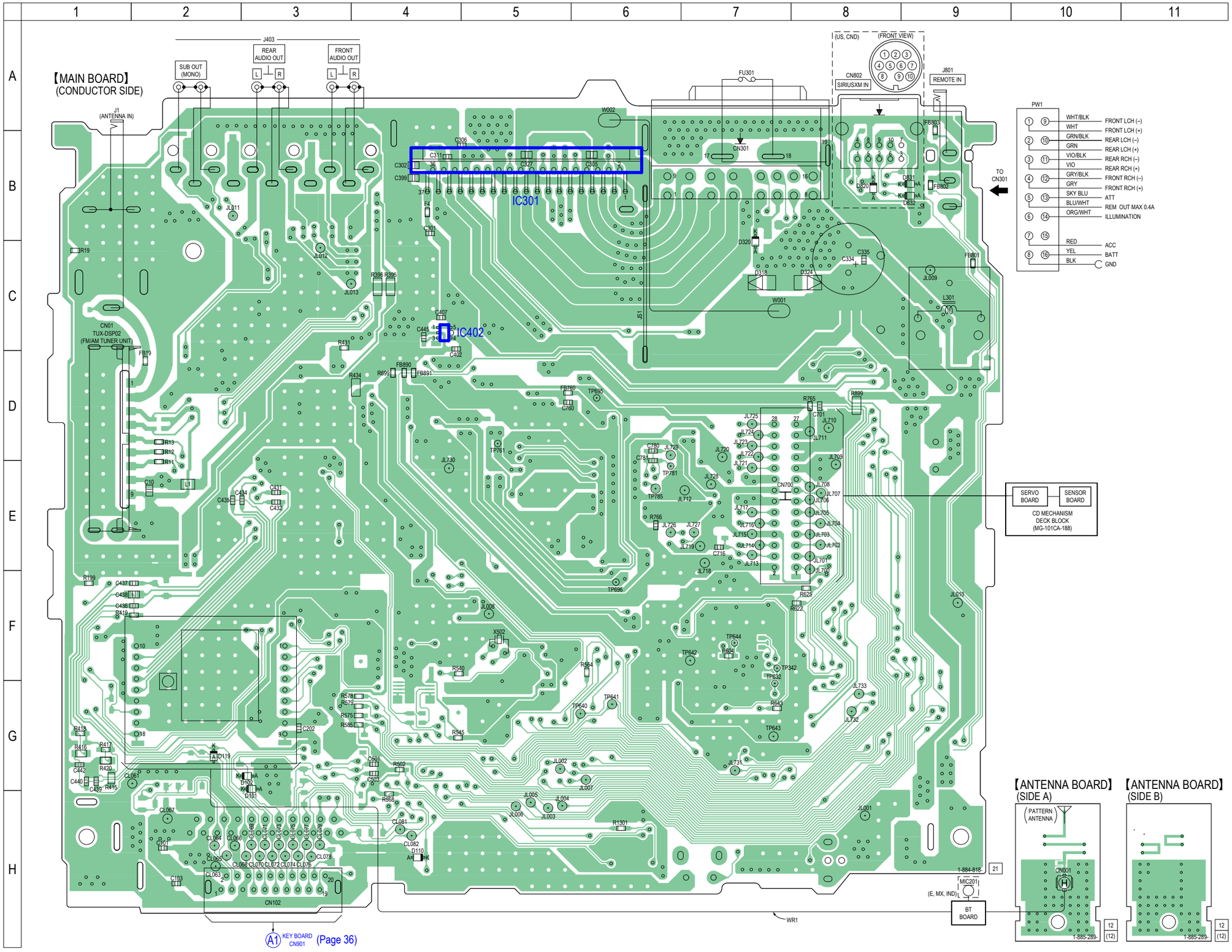
• : Uses unleaded solder.



Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

5-5. PRINTED WIRING BOARDS - MAIN Section (2/2) (US, Canadian, E, Mexican and Indian models) - • See page 27 for Circuit Boards Location. • : Uses unleaded solder.



Note 1: When SERVO board is defective, exchange the complete mounted board.

Note 2: When SENSOR board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08 (Former type) or MECHANICAL BLOCK (11CA) ASSY (New type).

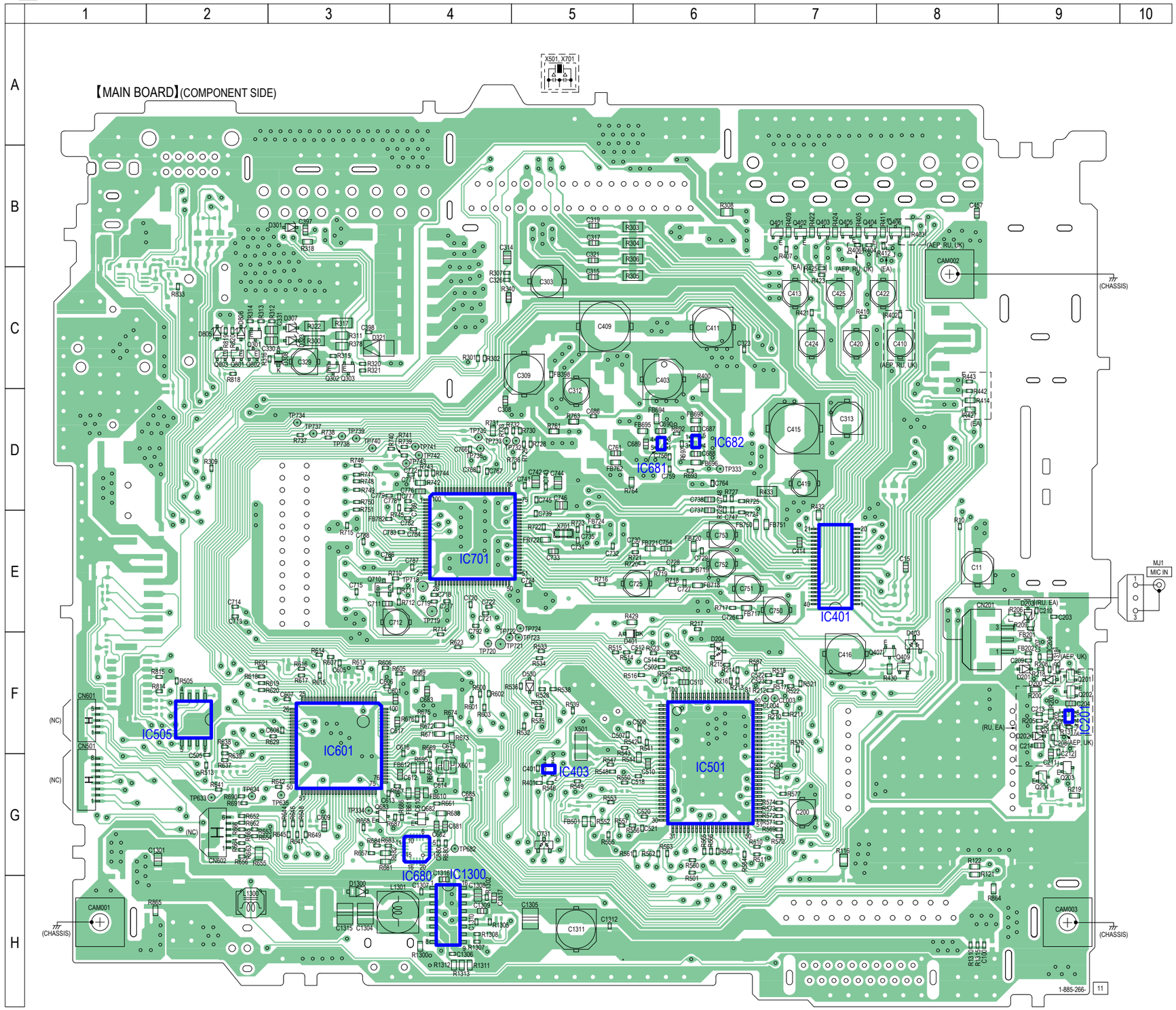
Note 3: When BT board is defective, exchange the complete mounted board.

Note 4: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

5-6. PRINTED WIRING BOARD - MAIN Section (1/2) (AEP, Russian, UK and Saudi Arabia models) -

• See page 27 for Circuit Boards Location.

• : Uses unleaded solder.

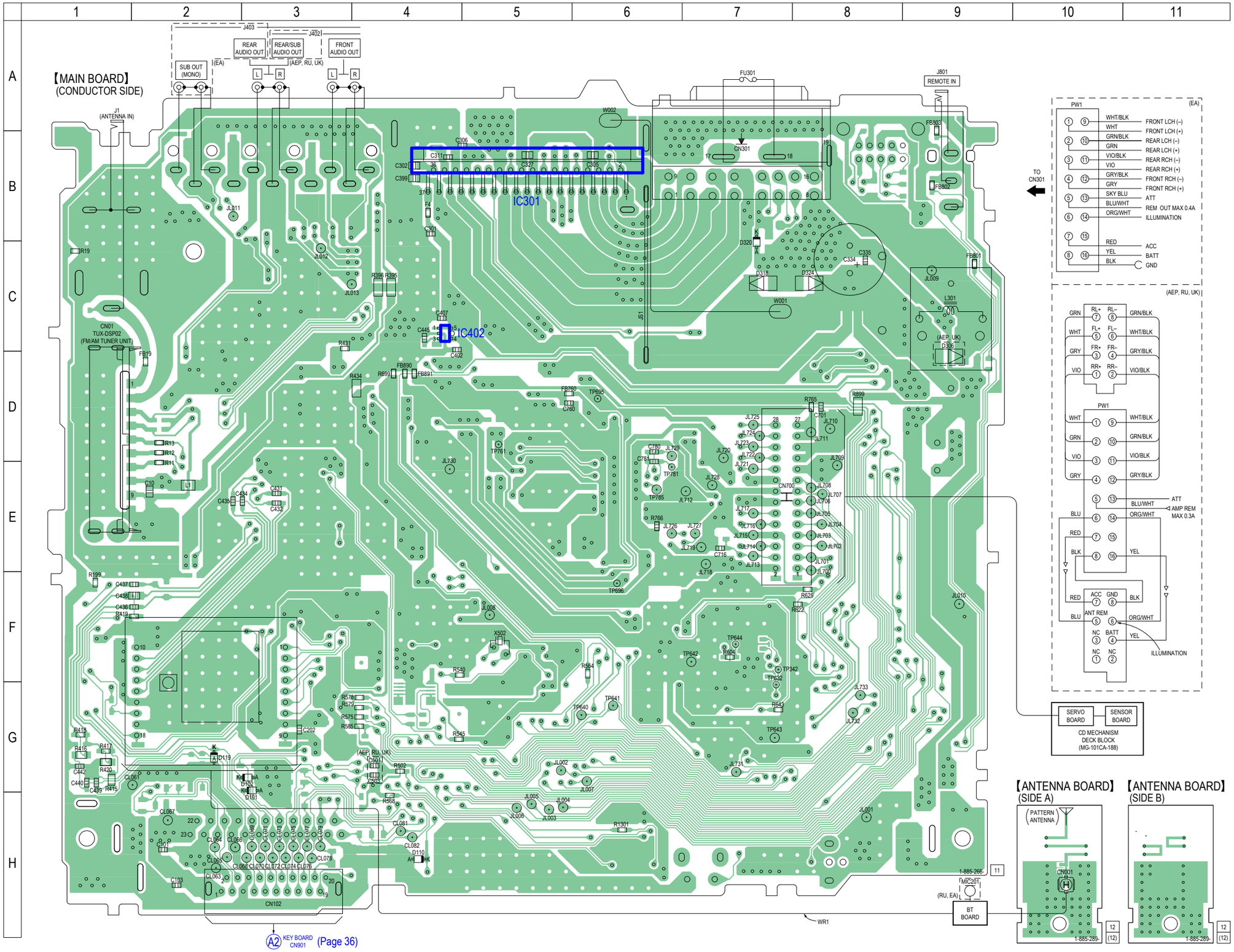


Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

5-7. PRINTED WIRING BOARDS - MAIN Section (2/2) (AEP, Russian, UK and Saudi Arabia models) -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



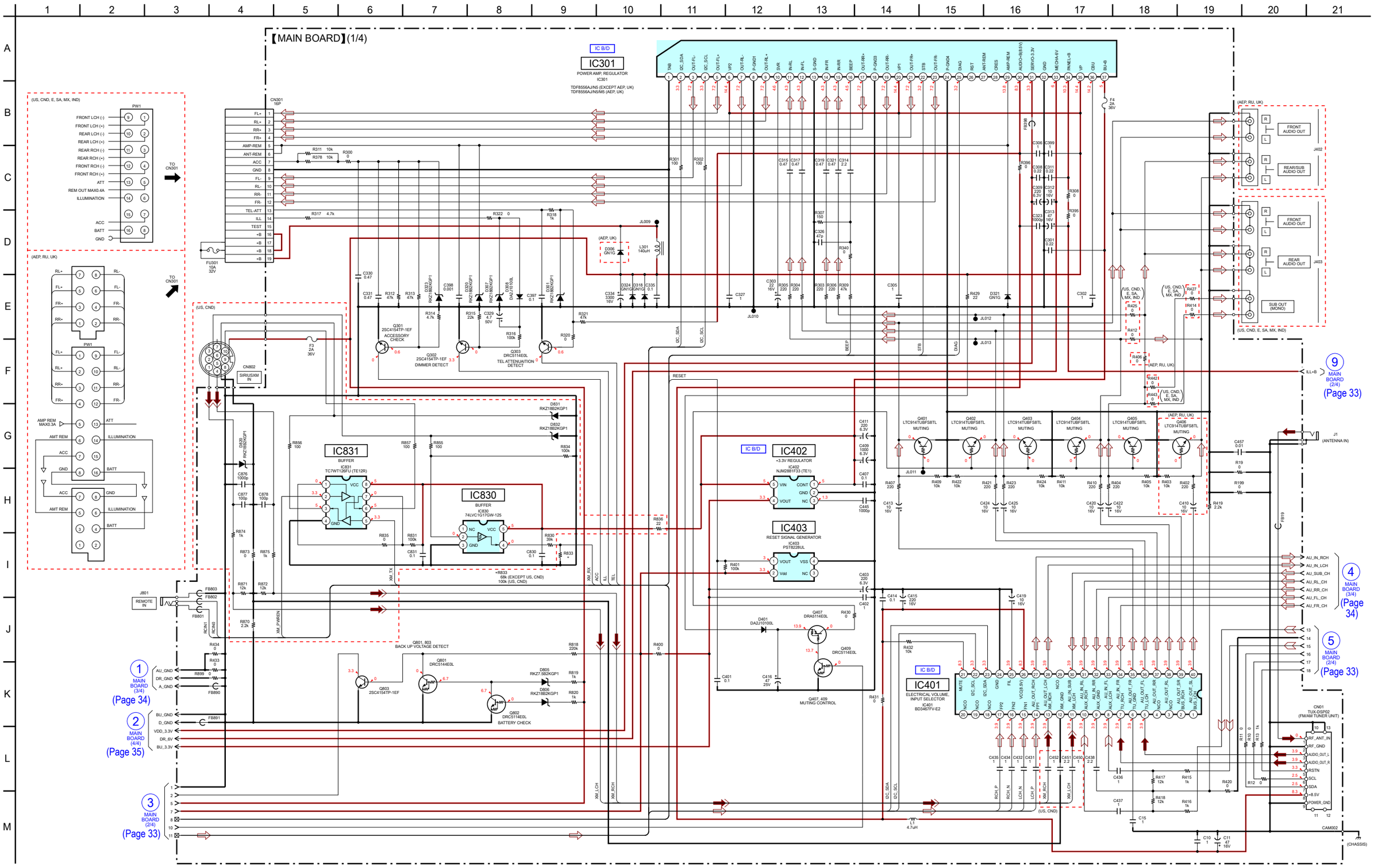
Note 1: When SERVO board is defective, exchange the complete mounted board.

Note 2: When SENSOR board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08 (Former type) or MECHANICAL BLOCK (11CA) ASSY (New type).

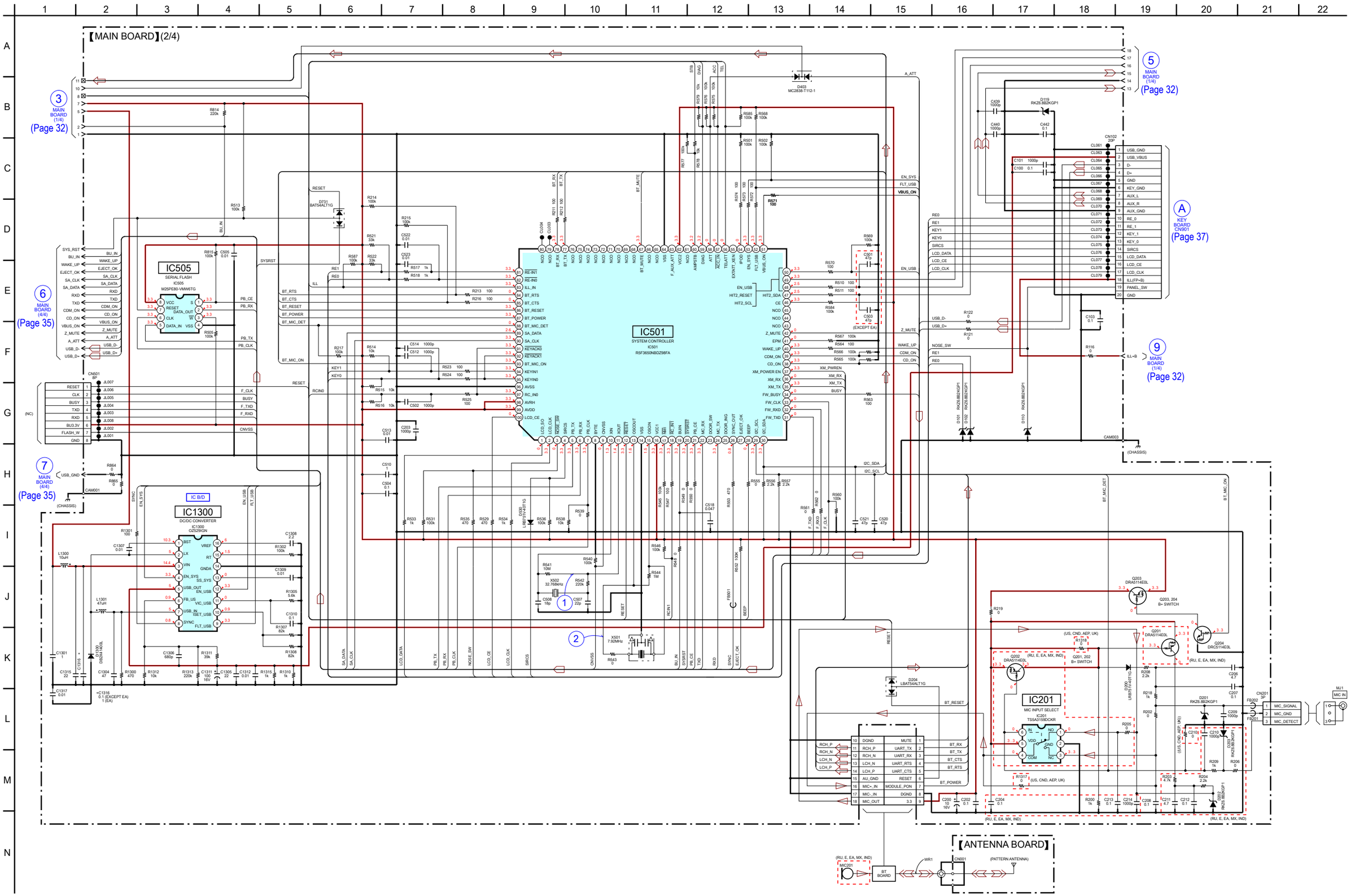
Note 3: When BT board is defective, exchange the complete mounted board.

Note 4: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

5-8. SCHEMATIC DIAGRAM - MAIN Section (1/4) - • See page 38 for IC Block Diagrams.



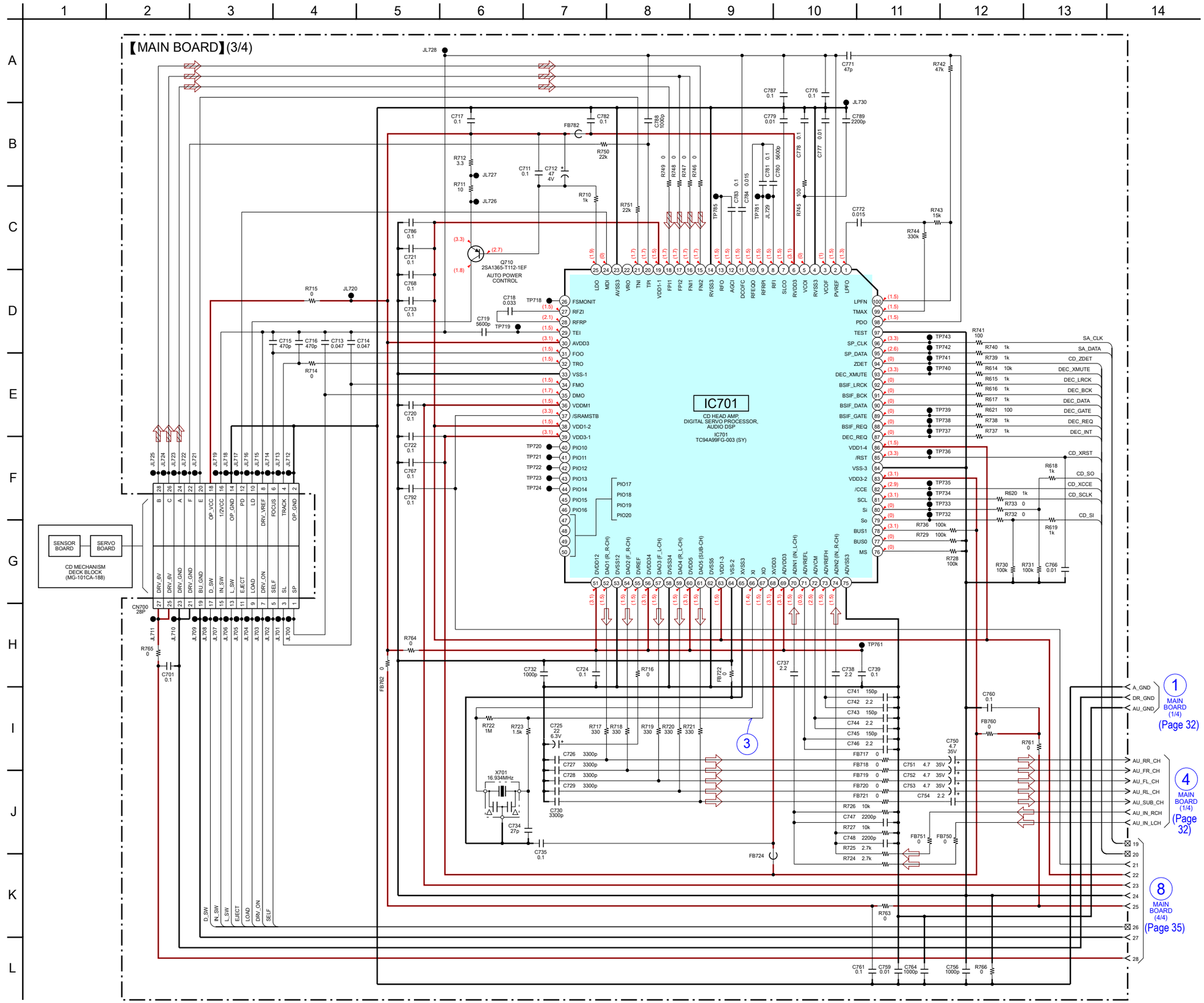
5-9. SCHEMATIC DIAGRAM - MAIN Section (2/4) - • See page 38 for waveforms. • See page 38 for IC Block Diagrams. • See page 40 for IC Pin Function Description.



Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: When BT board is defective, exchange the complete mounted board.

5-10. SCHEMATIC DIAGRAM - MAIN Section (3/4) - • See page 38 for waveforms. • See page 40 for IC Pin Function Description.



Note 1: When SERVO board is defective, exchange the complete mounted board.

Note 2: When SENSOR board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08 (Former type) or MECHANICAL BLOCK (11CA) ASSY (New type).

Note 3: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

5-11. SCHEMATIC DIAGRAM - MAIN Section (4/4) -

• See page 38 for waveforms. • See page 38 for IC Block Diagrams. • See page 40 for IC Pin Function Description.

【MAIN BOARD】(4/4)

IC601
CD DRIVE/USB CONTROLLER
IC601
TMPM321FEFG(SY)

IC680
EEPROM
IC680
MFI341S2162

IC682
+1.5V REGULATOR
IC682
NJM2878F3-15 (TE2)

IC681
+1.5V REGULATOR
IC681
NJM2878F3-15 (TE2)

IC B/D

X601
12MHz

CN601
6P
1 VCC
2 SYS_RST
3 SWCLK
4 SWDIO
5 GND
(NC)

CN602
6P
1 TRACE_DATA3
2 TRACE_DATA2
3 TRACE_DATA1
4 TRACE_DATA0
5 TRACE_CLK
6 GND
(NC)

Q683
RT1N141M-TP-1

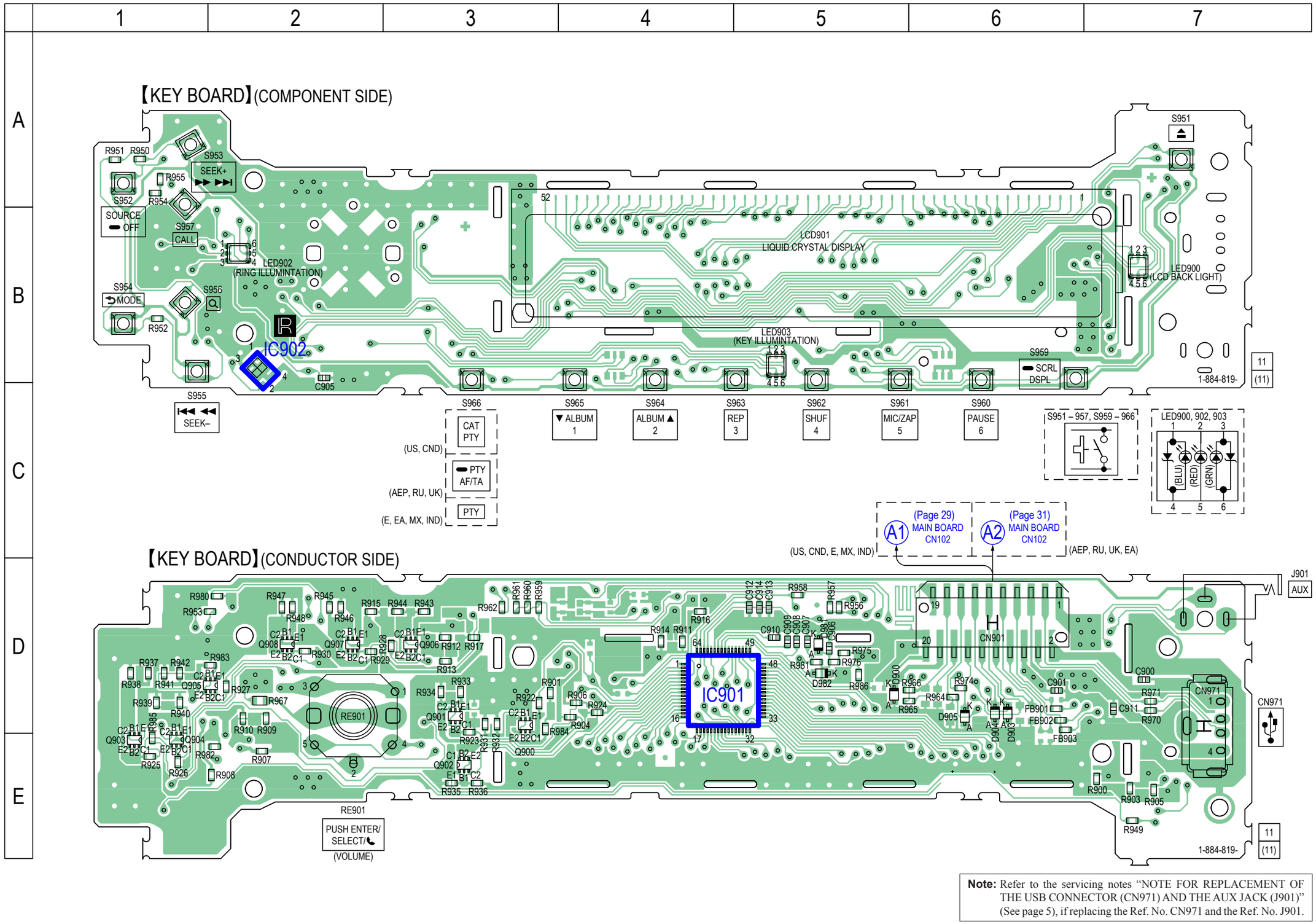
Q682
ISA1602AM1-T111-1EF

Q682, 683
B+ SWITCH

Note: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

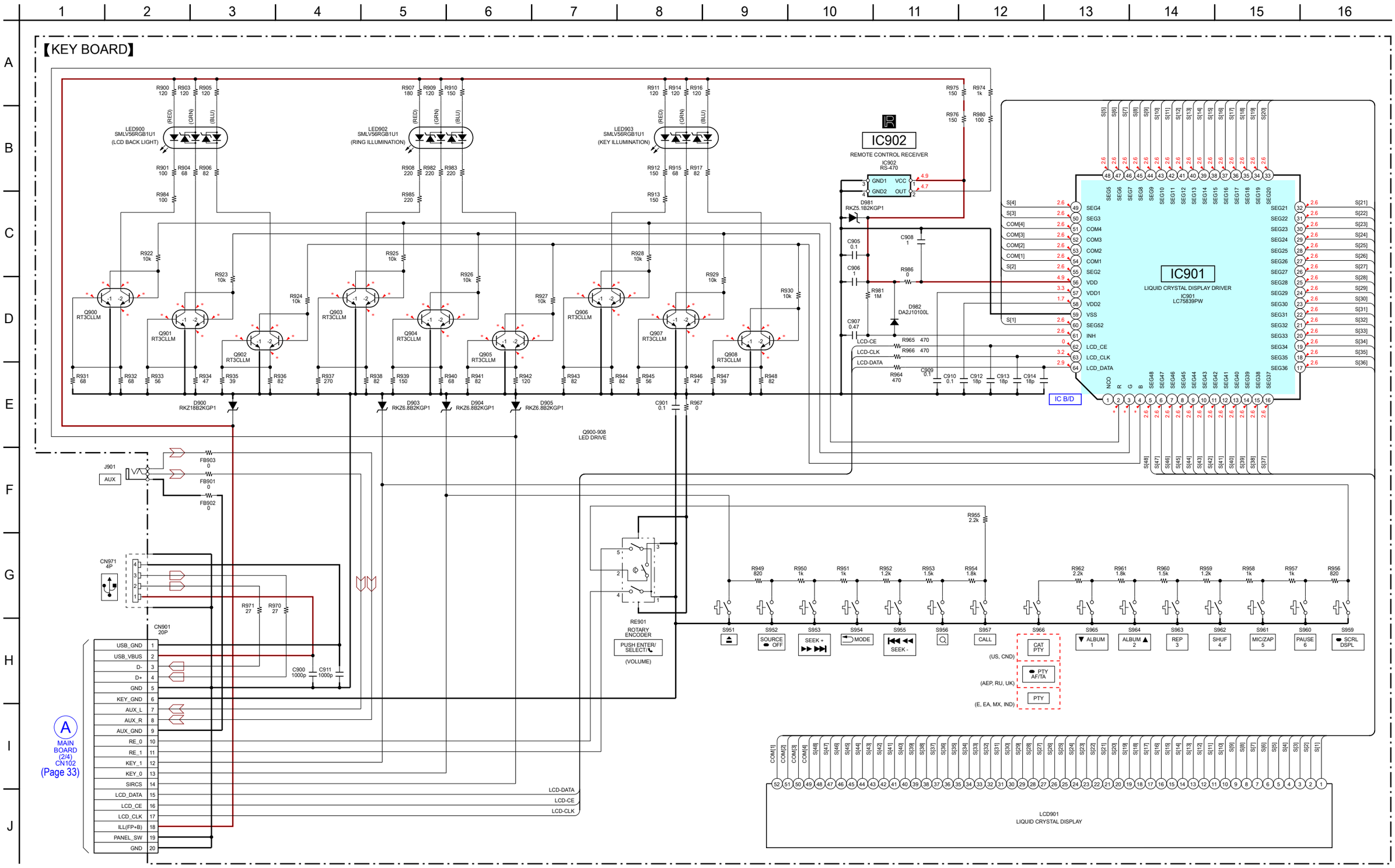
7 MAIN BOARD (2/4) (Page 33)
2 MAIN BOARD (1/4) (Page 32)
6 MAIN BOARD (2/4) (Page 33)
8 MAIN BOARD (3/4) (Page 34)

5-12. PRINTED WIRING BOARD - KEY Board - • See page 27 for Circuit Boards Location. • : Uses unleaded solder.



Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

5-13. SCHEMATIC DIAGRAM - KEY Board - • See page 38 for IC Block Diagrams.

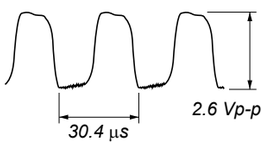


Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

• Waveforms

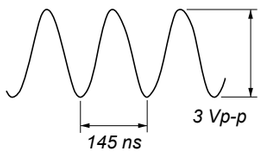
– MAIN Board –

① IC501 ⑪ (XOUT)



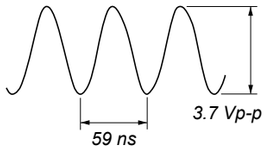
1 V/DIV, 20 µs/DIV

② IC501 ⑬ (OSCOUT)



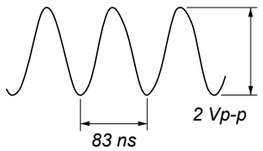
1 V/DIV, 50 ns/DIV

③ IC701 ⑰ (XO)



1 V/DIV, 20 ns/DIV

④ IC601 ㉒ (X2)

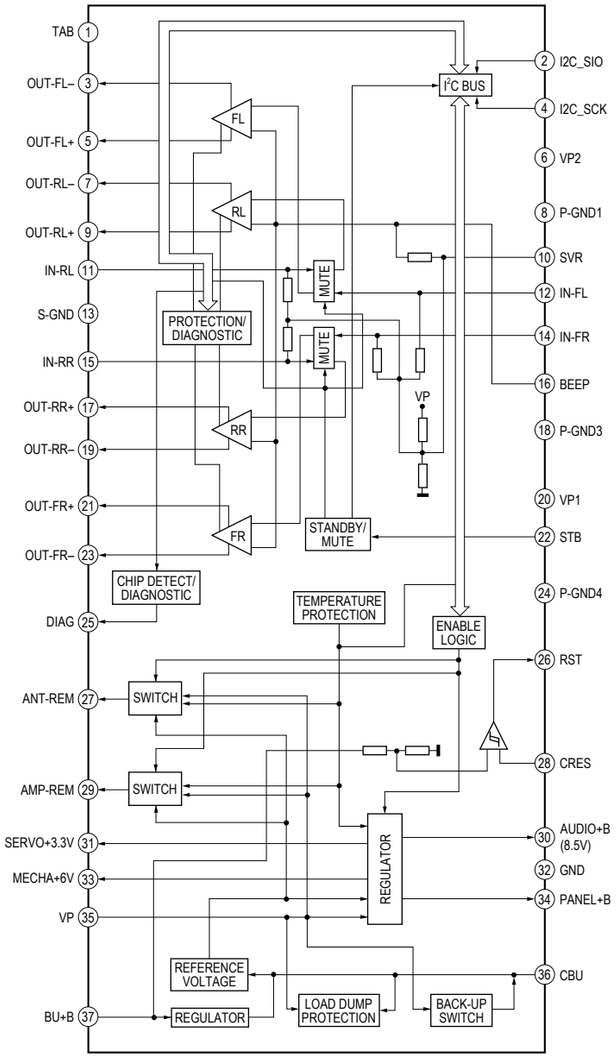


1 V/DIV, 50 ns/DIV

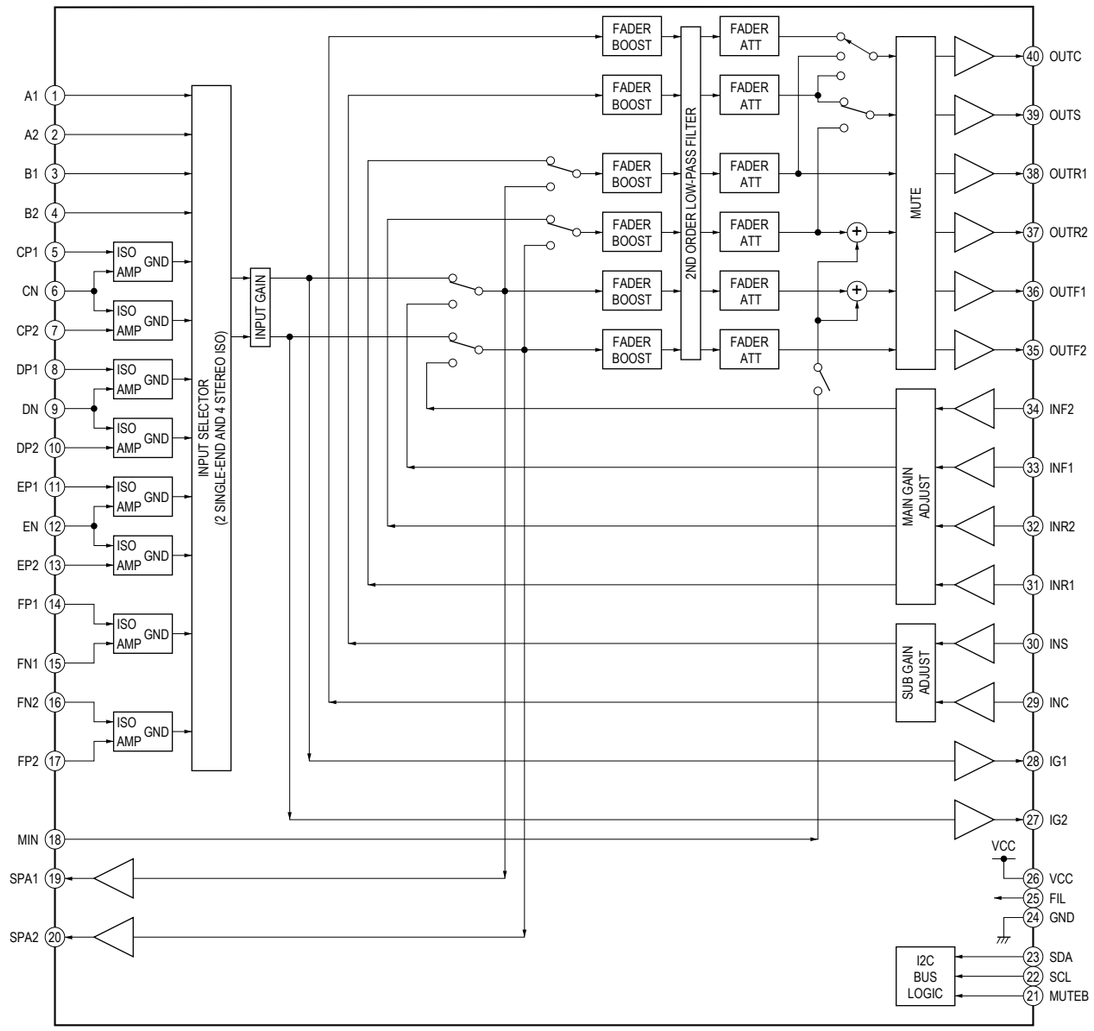
• IC Block Diagrams

– MAIN Board –

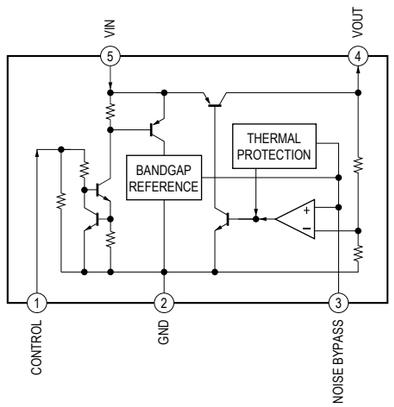
IC301 TDF8556AJ/N5 (Except AEP and UK models)
TDF8556AJ/N5/M5 (AEP and UK models)



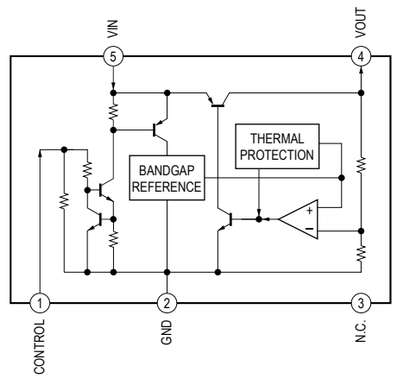
IC401 BD3467FV-E2



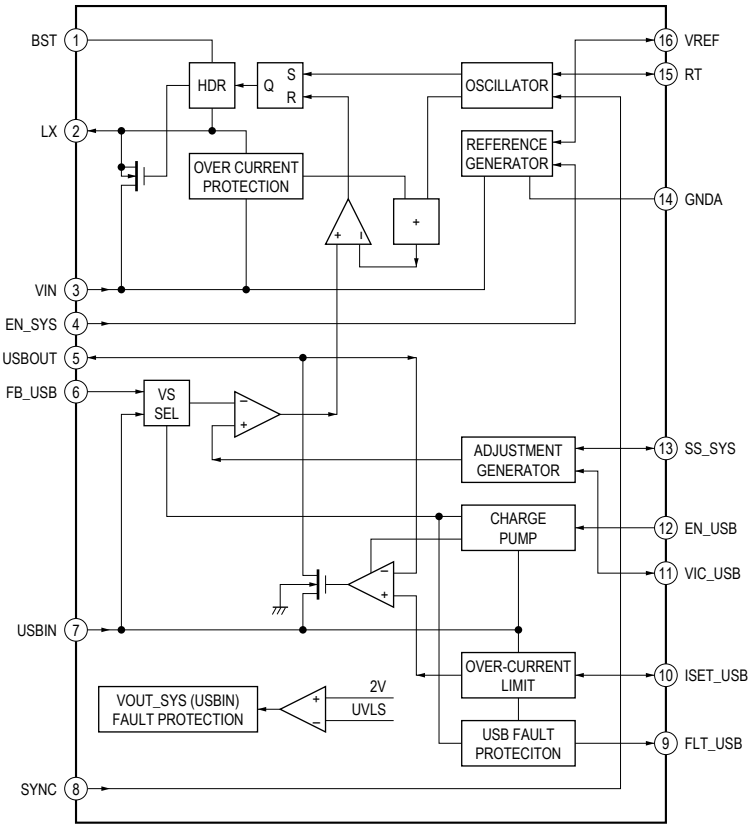
IC402 NJM2881F33 (TE1)



IC681, 682 NJM2878F3-15 (TE2)

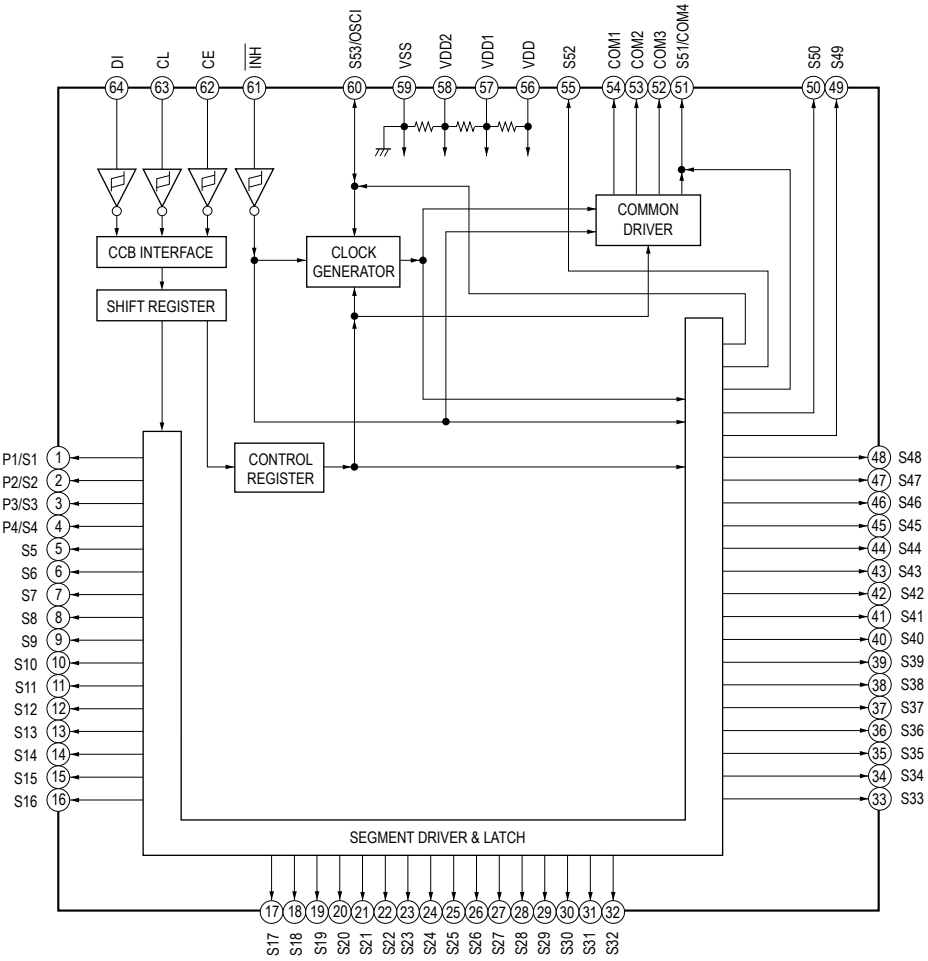


IC1300 OZ529IGN-A1-TR



– KEY Board –

IC901 LC75839PW-US-H



• **IC Pin Function Description**

MAIN BOARD IC501 R5F3650NBDZ98FA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	LCD_SO	O	Serial data output to the liquid crystal display driver
2	LCD_CLK	O	Serial clock signal output to the liquid crystal display driver
3	$\overline{\text{NOSE\_SW}}$	I	Front panel remove/attach detection signal input terminal "L": Front panel is attached
4	SIRCS	I	Remote control signal input from the remote control signal receiver
5	PB_TX	O	Serial data output to the serial flash
6	PB_RX	I	Serial data input from the serial flash
7	PB_CLK	O	Serial data transfer clock signal output to the serial flash
8	BYTE	I	External data bus width select signal input Connect to VSS in this unitt
9	CNVSS	I	Flash write signal input terminal Normally operation: "L", Flash write: "H"
10	XIN	I	Low speed operation clock signal input terminal (32.768 kHz)
11	XOUT	O	Low speed operation clock signal output terminal (32.768 kHz)
12	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator "L": reset
13	OSCOUT	O	High speed operation clock signal output terminal (7.92 MHz)
14	VSS	-	Ground terminal
15	OSCIN	I	High speed operation clock signal input terminal (7.92 MHz)
16	VCC1	-	Power supply terminal (+3.3V)
17	$\overline{\text{NMI}}$	I	Non-maskable interrupt signal input terminal Fixed at "H" in this unit
18	$\overline{\text{RC\_IN1}}$	I	Rotary remote commander shift key input terminal
19	BUIN	I	Back up power supply detection signal input terminal "L" is input at low voltage
20	$\overline{\text{SYSRST}}$	O	Reset signal output to the serial flash and CD drive/USB controller "L": reset
21	PB_CE	O	Chip enable signal output to the serial flash
22	MC_RX	I	Serial data input from the CD drive/USB controller
23	DOOR_SW	I	Front panel remove/attach detection signal input terminal Not used
24	MC_TX	O	Serial data output to the CD drive/USB controller
25	DOOR_ING	O	LED drive signal output terminal Not used
26	SYNC_OUT	O	Synchronize signal output to the DC/DC converter
27	EJECT_OK	O	Eject OK signal output terminal Not used
28	BEEP	O	Beep sound drive signal output to the power amplifier
29	I2C_SCL	O	IIC serial clock signal output terminal
30	I2C_SDA	I/O	IIC two-way serial data bus terminal
31	FW_TXD	O	Flash writer data output terminal
32	FW_RXD	I	Flash writer data input terminal
33	FW_CLK	I	Flash writer clock signal output terminal
34	FW_BUSY	O	Flash writer busy signal output terminal
35	XM_TX	O	Serial data output to the SIRIUSXM IN connector (US and Canadian models only)
36	XM_RX	I	Serial data input from the SIRIUSXM IN connector (US and Canadian models only)
37	XM_POWER_EN	O	Power supply on/off control signal output to the SIRIUSXM IN connector (US and Canadian models only)
38	CD_ON	I	Power supply on/off control signal input terminal for the CD section
39	CDM_ON	I	Power supply on/off control signal input terminal for the CD mechanism section
40	WAKE_UP	O	System wake up signal output to the CD drive/USB controller
41	EPM	O	EPM signal output terminal Fixed at "L" in this unit
42	Z_MUTE	I	Muting on/off control signal input from the CD drive/USB controller
43 to 45	NCO	-	Not used
46	CE	O	Chip enable signal output terminal Fixed at "H" in this unit
47	HIT2_SDA	I/O	IIC two-way serial data bus with the FM/AM tuner unit
48	HIT2_SCL	O	IIC serial clock signal output to the FM/AM tuner unit
49	HIT2_RESET	O	Reset signal output to the FM/AM tuner unit
50	EN_USB	O	Power supply on/off control signal output to the DC/DC converter
51	VBUS_ON	I	VBUS on/off control signal input from the CD drive/USB controller "H": VBUS on
52	FLT_USB	I	Over current detection signal input from the DC/DC converter
53	EN_SYS	O	Power supply on/off control signal output to the DC/DC converter
54	IPOD	I	iPod connection mode is difference slope setting terminal
55	EXTATT_XEN	-	Not used
56	TELATT	I	Telephone attenuator detection signal input terminal
57	$\overline{\text{ACC\_IN}}$	I	Accessory power detection signal input terminal "L": accessory power on
58	ATT	O	Muting on/off control signal output terminal "H": muting on

Pin No.	Pin Name	I/O	Description
59	DIAG	I	Diagnostic signal input from the power amplifier
60	AMPSTB	O	Standby control signal output to the power amplifier
61	NCO	-	Not used
62	VCC2	-	Power supply terminal (+3.3V)
63	F_AUX_ATT	O	Muting on/off control signal output terminal Not used
64	VSS	-	Ground terminal
65, 66	NCO	-	Not used
67	BT_MUTE	I	Muting on/off control signal input from the Bluetooth section "H": muting on
68 to 76	NCO	-	Not used
77	BT_TX	O	Serial data output to the Bluetooth section
78	BT_RX	I	Serial data input from the Bluetooth section
79, 80	NCO	-	Not used
81, 82	$\overline{\text{RE-IN1}}$, $\overline{\text{RE-IN0}}$	I	Jog dial pulse input from the rotary encoder
83	ILL_IN	I	Illuminate line detect signal input terminal
84	BT_RTS	O	Return to send signal output to the Bluetooth section
85	BT_CTS	I	Clear to send signal input from the Bluetooth section
86	BT_RESET	O	Reset signal output to the Bluetooth section "L": reset
87	BT_POWER	O	Power supply on/off control signal output to the Bluetooth section
88	BT_MIC_DET	I	Microphone detection signal input terminal for the MIC IN jack "H": microphone is connected
89	SA_DATA	I/O	IIC two-way serial data bus with the audio DSP
90	SA_CLK	O	IIC serial clock signal output to the audio DSP
91, 92	$\overline{\text{KEYACK0}}$, $\overline{\text{KEYACK1}}$	I	Acknowledge signal (wake up signal) input terminal
93	BT_MIC_ON	O	Power supply on/off control signal output to the microphone section
94, 95	KEYIN1, KEYIN0	I	Front panel key input terminal
96	AVSS	-	Ground terminal (for A/D converter)
97	RC_IN0	I	Rotary remote commander shift key input terminal
98	AVRH	I	Reference voltage (+3.3V) input terminal (for A/D converter)
99	AVDD	-	Power supply terminal (+3.3V) (for A/D converter)
100	LCD_CE	O	Chip enable signal output to the liquid crystal display driver

MAIN BOARD IC601 TMPM321FEFG (SY) (CD DRIVE/USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	AVSS	-	Ground terminal
2	VREFH	I	Reference voltage (+3.3V) input terminal (for A/D converter)
3	RESET	I	Reset signal input from the system controller "L": reset
4	MODE	I	Operation mode setting terminal Fixed at "L" in this unit
5	OPEN_REQ	-	Not used
6	EJECT_OK	I	Eject OK signal input terminal Not used
7	NC	-	Not used
8	WAKEUP	I	System wake up signal input from the system controller
9 to 11	NC	-	Not used
12	BUI_N	I	Back up power supply detection signal input terminal "L" is input at low voltage
13	DVSS	-	Ground terminal
14	NC	-	Not used
15	CD_ZDET	I	Zero detection signal input from the audio DSP
16	DEC_XMUTE	O	Muting on/off control signal output to the audio DSP "L": muting on
17	DEC_LRCK	O	L/R sampling clock signal output to the audio DSP
18	DEC_BCK	O	Bit clock signal output to the audio DSP
19	DEC_DATA	O	Digital audio data output to the audio DSP
20	DEC_GATE	O	Gate signal output to the audio DSP
21	DEC_REQ	I	Request signal input from the audio DSP
22	CD_SO	O	Serial data output to the audio DSP
23	CD_SI	I	Serial data input from the audio DSP
24	CD_SCLK	I	Serial data transfer clock signal output to the audio DSP
25	MEC_SELFSW	I	Detection signal input from the CD section (self switch)
26	NC	-	Not used
27	DEC_INT	I	Interrupt signal input from the audio DSP
28	CD_XRST	O	Reset request signal output to the audio DSP "L": reset
29	CD_XCCE	O	Chip enable signal output to the audio DSP
30, 31	NC	-	Not used
32	Z/Y_CHECK	-	Not used
33	DVCC3	-	Power supply terminal (+3.3V)
34	DVSS	-	Ground terminal
35	DRV_ON	O	Driver control signal output to the CD section
36	MEC_LOAD	O	Motor (Loading) signal output to the CD section
37	MEC_EJECT	O	Motor (Eject) signal output to the CD section
38	DEC_SSTBY	O	SRAM standby mode control signal output to the audio DSP
39	MEC_LIMIT	I	Detection signal input from the CD section (limit switch)
40	MEC_INSW	I	Detection signal input from the CD section (in switch)
41	MEC_DSW	I	Detection signal input from the CD section (D switch)
42, 43	NC	-	Not used
44	XLINE	-	Not used
45	XINITO	-	Not used
46	FE/SBAD_SEL	-	Not used
47	Z/Y_SEL	I	Z/Y setting terminal
48	NC	-	Not used
49	MECON_CHECK	I	Power supply voltage detection terminal for CD mechanism section
50	CDON_CHECK	I	Power supply voltage detection terminal for CD section
51	A_ATT	O	Muting on/off control signal output terminal
52	MECON	O	Power supply on/off control signal output terminal for the CD mechanism section
53	CDON	O	Power supply on/off control signal output terminal for the CD section
54	ZMUTE	O	Muting on/off control signal input from the system controller
55	TxD	O	Serial data output to the system controller
56	RxD	I	Serial data input from the system controller
57, 58	NC	-	Not used
59	DVCC3	-	Power supply terminal (+3.3V)
60	DVSS	-	Ground terminal
61	SWDIO	-	Not used
62	SWCLK	-	Not used
63	TRACECLK	-	Not used

Pin No.	Pin Name	I/O	Description
64 to 67	TRACEDATA0 to TRACEDATA3	-	Not used
68	CP_SDA	I/O	Serial data input/output for the EEPROM
69	CP_SCL	O	Serial data transfer clock signal output to the EEPROM
70	NC	-	Not used
71	CP_RESET	O	Reset signal output to the EEPROM
72	CPON	O	Power supply on/off control signal output terminal for the EEPROM
73	CDON_15V	O	Power supply on/off control signal output terminal for the CD section
74	VBUS_ON	O	VBUS on/off control signal output to the system controller “H”: VBUS on
75	NC	-	Not used
76	REGVCC3	-	Power supply terminal (+3.3V)
77, 78	XT1, XT2	-	Not used
79	CVCC3	-	Power supply terminal (+3.3V)
80	X1	I	System clock input terminal (12 MHz)
81	CVSS	-	Ground terminal
82	X2	O	System clock output terminal (12 MHz)
83	DVCC3	-	Power supply terminal (+3.3V)
84	DVSS	-	Ground terminal
85, 86	USB+, USB–	I/O	Digital audio data bus terminal
87	NMI	-	Not used
88, 89	TEST	-	Not used
90, 91	NC	-	Not used
92	AVCC3	-	Power supply terminal (+3.3V)
93 to 100	NC	-	Not used

MAIN BOARD IC701 TC94A99FG-003 (SY) (CD HEAD AMP, DIGITAL SERVO PROCESSOR, AUDIO DSP)

Pin No.	Pin Name	I/O	Description
1	LPFO	O	Signal output from the operation amplifier for PLL loop filter
2	PVREF	I	Reference voltage (+1.65V) input terminal
3	VCOF	O	Terminal for VCO filter
4	RVSS3	-	Ground terminal
5	VCOI	I	DSP VCO control voltage input terminal
6	RVDD3	-	Power supply terminal (+3.1V)
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	EFM slice level output terminal
11	DCOFC	O	Not used
12	AGCI	I	RF signal amplitude adjustment amplification input terminal
13	RFO	O	RF signal generation amplification output terminal Not used
14	RVSS3	-	Ground terminal
15	FNI2	I	Main beam input terminal (Connect with pin diode B)
16	FNI1	I	Main beam input terminal (Connect with pin diode C)
17	FPI2	I	Main beam input terminal (Connect with pin diode C)
18	FPI1	I	Main beam input terminal (Connect with pin diode A)
19	VDD1-1	-	Power supply terminal (+1.5V)
20	TPI	I	Sub beam amplification input terminal (Connect with pin diode F)
21	TNI	I	Sub beam amplification input terminal (Connect with pin diode E)
22	VRO	O	Reference voltage (+1.65V) output terminal Not used
23	AVSS3	-	Ground terminal
24	MDI	I	Monitor photo diode amplification input terminal
25	LDO	O	Laser diode amplification output terminal
26	FSMONIT	-	Not used
27	RFZI	I	RF ripple zero crossing signal input terminal
28	RFRP	O	RF ripple signal output terminal
29	TEI	I	Tracking error signal input terminal
30	AVDD3	-	Power supply terminal (+3.1V)
31	FOO	O	Focus servo equalizer signal output terminal
32	TRO	O	Tracking servo equalizer signal output terminal
33	VSS-1	-	Ground terminal
34	FMO	O	Feeding servo equalizer signal output terminal
35	DMO	O	Disc servo equalizer signal output terminal
36	VDDM1	-	Power supply terminal (+1.5V)
37	/SRAMSTB	I	Strobe signal input from the CD drive/USB controller “L”: standby mode
38	VDD1-2	-	Power supply terminal (+1.5V)
39	VDD3-1	-	Power supply terminal (+3.1V)
40	PIO10 to PIO20	-	Not used
51	DVDD12	-	Power supply terminal (+3.1V)
52	DAO1 (R_R-CH)	O	R_R channel data output terminal
53	DVSS12	-	Ground terminal
54	DAO2 (F_R-CH)	O	F_R channel data output terminal
55	DVREF	-	Reference voltage input terminal
56	DVDD34	-	Power supply terminal (+3.1V)
57	DAO3 (F_L-CH)	O	F_L channel data output terminal
58	DVSS34	-	Ground terminal
59	DAO4 (R_L-CH)	O	R_L channel data output terminal
60	DVDD5	-	Power supply terminal (+3.1V)
61	DAO5 (SUB-CH)	O	SUB channel data output terminal
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 (16.934 MHz)
67	XO	O	System clock output terminal (16.934 MHz)
68	XVDD3	-	Power supply terminal (+3.1V)

Pin No.	Pin Name	I/O	Description
69	ADVDD3	-	Power supply terminal (+3.1V)
70	ADIN1 (IN_L-CH)	I	Audio signal input terminal (L channel)
71	ADVREFL	O	Reference voltage output terminal
72	ADVCM	O	Reference voltage output terminal
73	ADVREFH	O	Reference voltage output terminal
74	ADIN2 (IN_R-CH)	I	Audio signal input terminal (R channel)
75	ADVSS3	-	Ground terminal
76	MS	I	I/F mode selection signal input terminal Fixed at “L” in this unit
77, 78	BUS0, BUS1	I/O	Bus data input/output terminal Not used
79	So	O	Serial data output to the CD drive/USB controller
80	Si	I	Serial data input from the CD drive/USB controller
81	SCL	I	Bus clock signal input from the CD drive/USB controller
82	/CCE	I	Chip enable signal input from the CD drive/USB controller
83	VDD3-2	-	Power supply terminal (+3.1V)
84	VSS-3	-	Ground terminal
85	/RST	I	Reset signal input from the system controller
86	VDD1-4	-	Power supply terminal (+1.5V)
87	DEC_REQ	O	Request signal output to the CD drive/USB controller
88	BSIF-REQ	O	Request signal output to the CD drive/USB controller
89	BSIF-GATE	I	Gate signal input from the CD drive/USB controller
90	BSIF_DATA	I	Audio data input from the CD drive/USB controller
91	BSIF_BCK	I	Bit clock signal input from the CD drive/USB controller
92	BSIF_LRCK	I	L/R sampling clock signal (44.1 kHz) input terminal for audio data input
93	BSIF_XMUTE	I	Muting on/off control signal input from the CD drive/USB controller
94	ZDET	O	Zero detection signal output terminal
95	SP_DATA	O	Spectrum analyzer data output to the system controller
96	SP_CLK	I	Spectrum analyzer data transfer clock signal input from the system controller
97	TEST	I	Setting terminal for test mode Normally fixed at “L”
98	PDO	O	Phase error margin signal between EFM signal and PLCK signal output terminal
99	TMAX	O	TMAX detection result output terminal\
100	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter

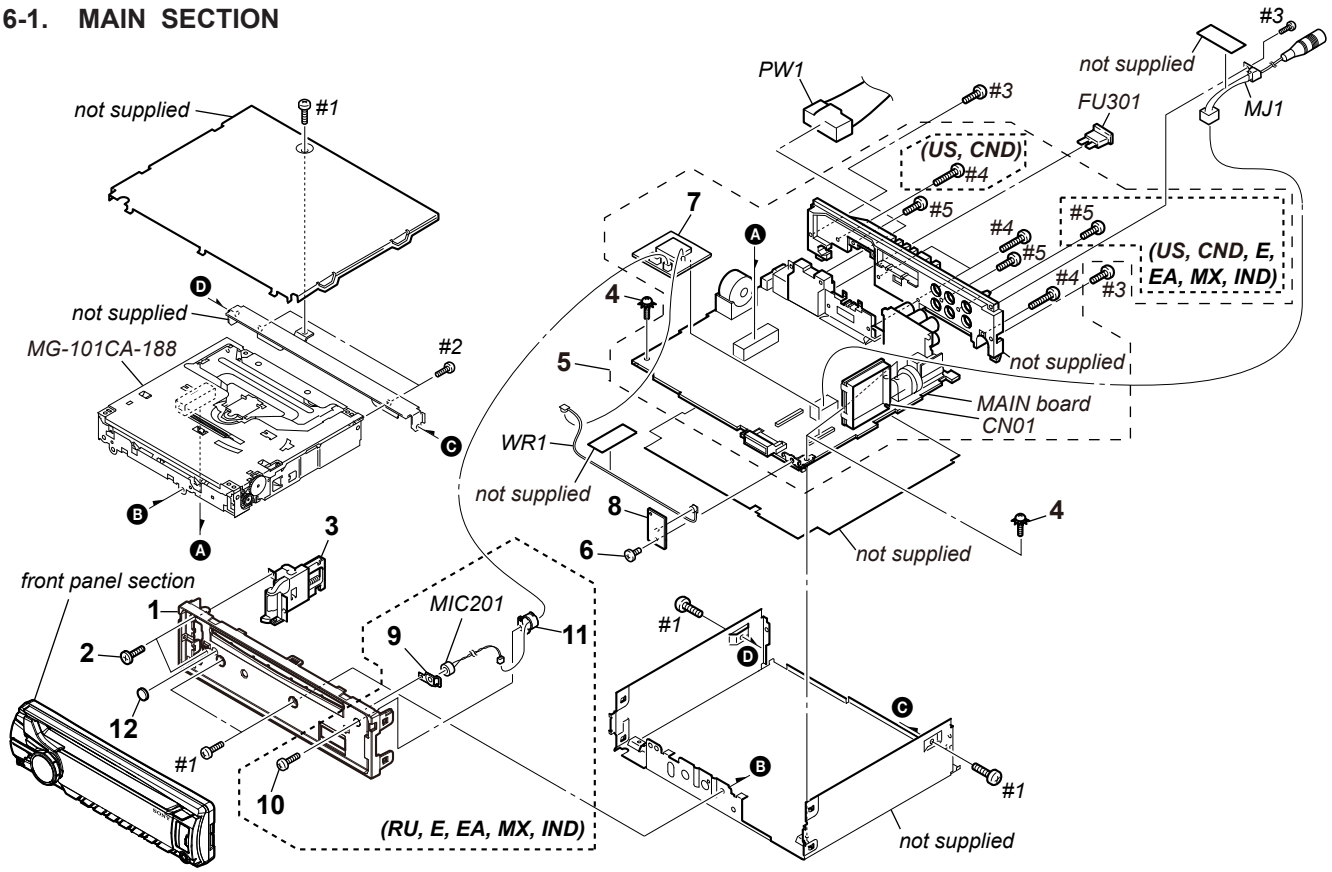
MEX-BT4000E/BT4000P/BT4000U/BT4050U/BT4054U
SECTION 6
EXPLODED VIEWS

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
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  IND : Indian model
  MX : Mexican model
  RU : Russian model

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

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

6-1. MAIN SECTION



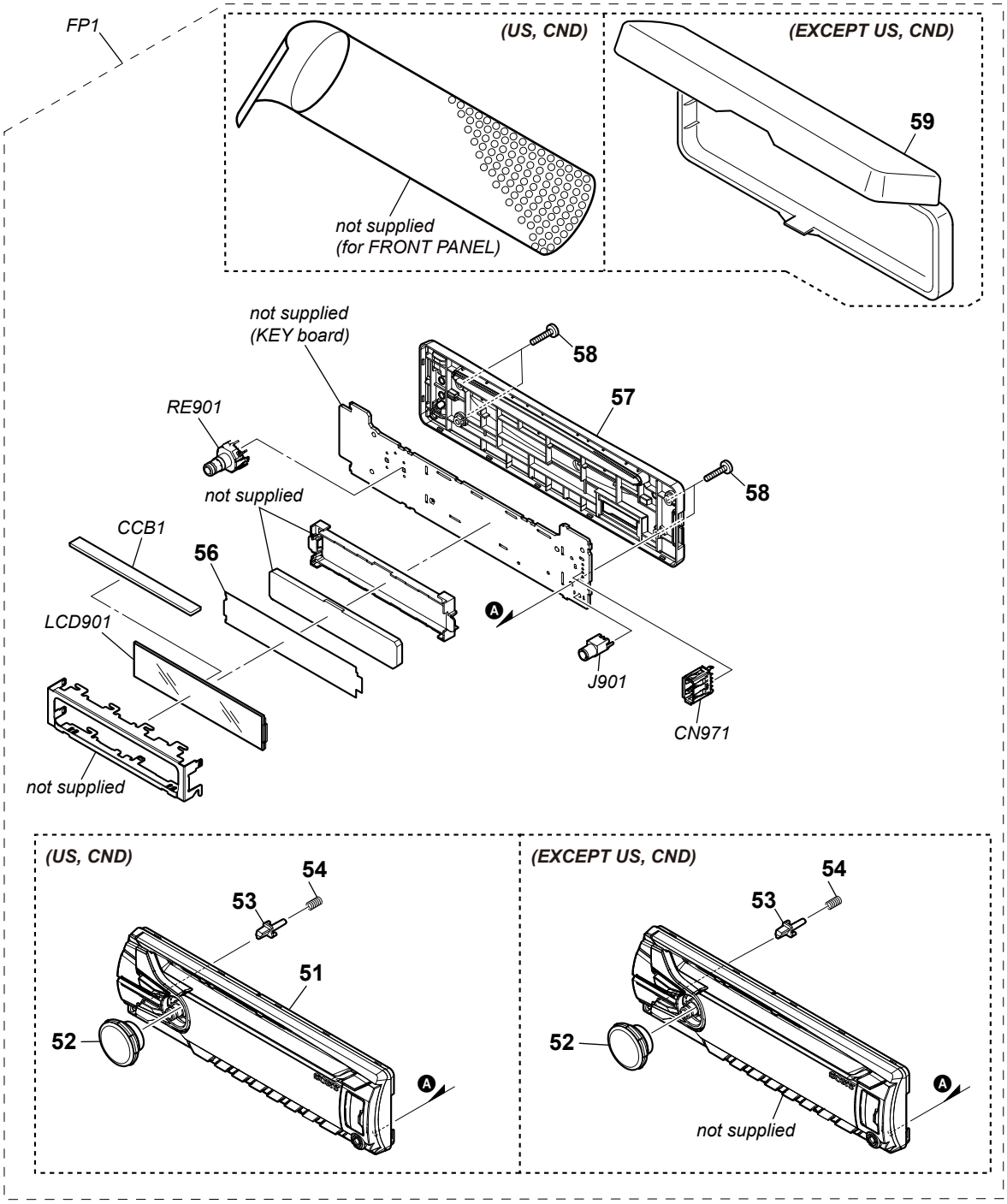
Note 1: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: When the BT board or MAIN board (including BT board) is replaced, it is necessary to confirm operation. Refer to "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" of the servicing note (See page 7).

Ref. No.	Part No.	Description	Remark
1	X-2581-176-1	PANEL ASSY, SUB (US, CND, AEP, UK)	
1	X-2581-177-1	PANEL ASSY, SUB (RU, E, EA, MX, IND)	
2	3-042-244-11	SCREW (T)	
3	X-2547-583-3	LOCK ASSY (T)	
4	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
5	A-1848-290-A	MAIN BOARD, COMPLETE (Including BT borad)	(US, CND)
5	A-1848-291-A	MAIN BOARD, COMPLETE (Including BT borad) (RU)	
5	A-1848-292-A	MAIN BOARD, COMPLETE (Including BT borad) (E)	
5	A-1848-293-A	MAIN BOARD, COMPLETE (Including BT borad) (EA)	
5	A-1848-294-A	MAIN BOARD, COMPLETE (Including BT borad)	(AEP, UK)
5	A-1860-397-A	MAIN BOARD, COMPLETE (Including BT borad)	(MX, IND)
6	3-042-244-01	SCREW (T)	
7	A-1847-637-A	BT BOARD, COMPLETE (Included in MAIN board)	
8	A-1847-636-A	ANTENNA BOARD, COMPLETE	
9	X-2580-124-1	PLATE (MIC SLOT) (SV) ASSY	(RU, E, EA, MX, IND)
10	3-250-543-21	SCREW (+B P-TITE M2) (RU, E, EA, MX, IND)	

Ref. No.	Part No.	Description	Remark
11	2-898-980-01	HOLDER (MIC SLOT) (RU, E, EA, MX, IND)	
12	3-243-844-01	CUSHION (SUB PANEL)	
CN01	A-1832-182-A	TUX-DSP02 (FM/AM Tuner Unit)	
FU301	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10 A/32 V)	
MIC201	1-542-914-11	MICROPHONE (RU, E, EA, MX, IND)	
MJ1	1-839-686-21	CORD, CONNECTION (MIC) (MIC IN)	(US, CND, AEP, UK)
MJ1	1-839-687-21	CORD, CONNECTION (MIC) (MIC IN)	(RU, E, EA, MX, IND)
PW1	1-839-374-11	CONNECTION CORD FOR AUTOMOBILE	(POWER) (US, CND, E, EA, MX, IND)
PW1	1-839-390-11	CONNECTION CORD (ISO) (POWER) (AEP, RU, UK)	
WR1	1-838-694-11	LEAD WIRE WITH CONNECTOR	(Bluetooth antenna wire)
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

6-2. FRONT PANEL SECTION

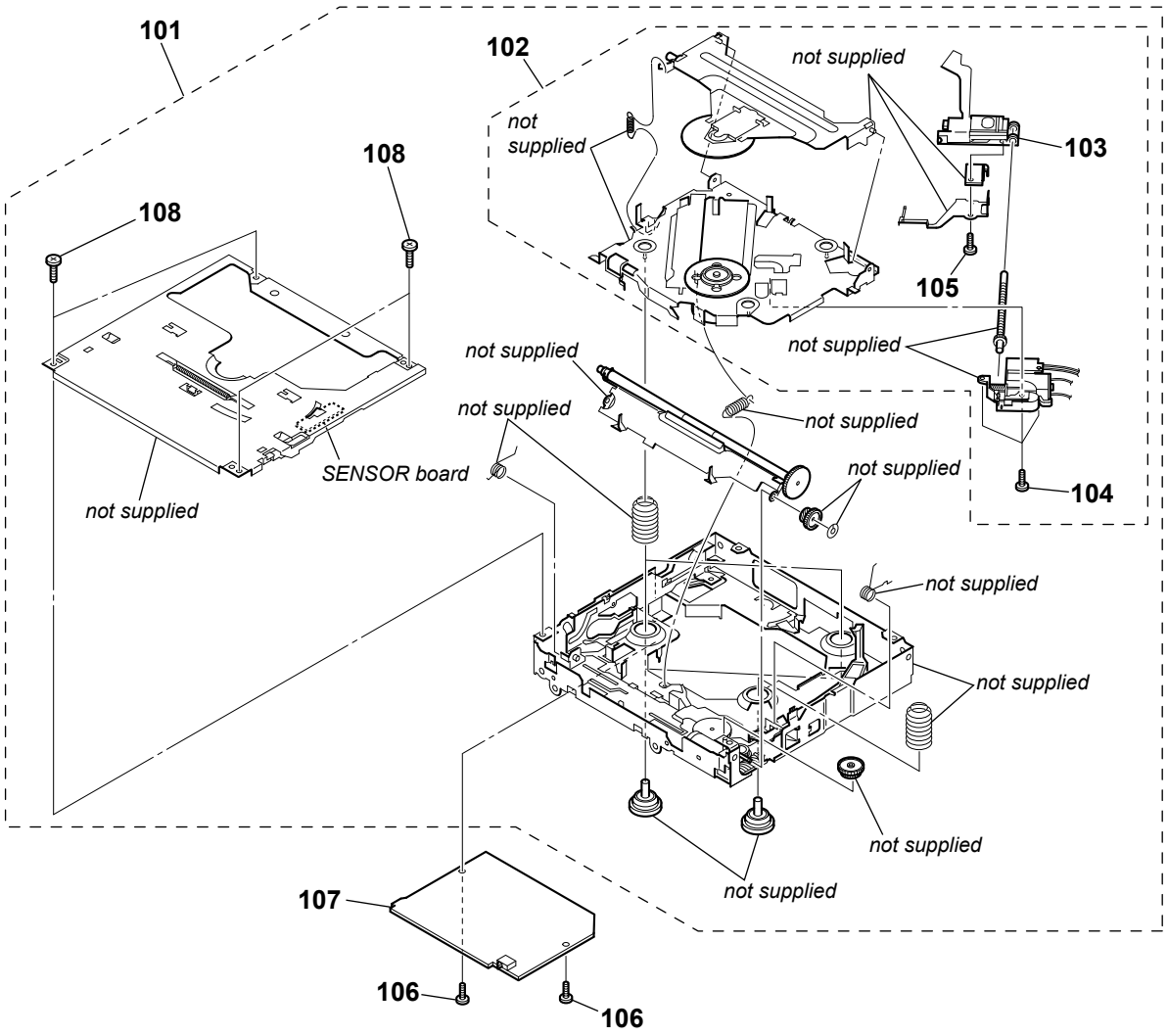


Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

Ref. No.	Part No.	Description	Remark
51	X-2582-838-1	PANEL (SV) ASSY, FRONT (US, CND)	
52	X-2581-844-1	KNOB (VOL) (SV) ASSY	
53	4-278-075-01	BUTTON (RELEASE)	
54	2-639-881-01	SPRING (RELEASE)	
56	4-278-080-01	ILLUMINATOR (LCD)	
57	4-278-217-01	PANEL, BACK	
58	3-250-543-21	SCREW (+B P-TITE M2)	
59	X-2187-544-4	CASE ASSY (EXCEPT US, CND)	
CCB1	1-780-968-11	CONDUCTIVE BOARD, CONNECTION	
CN971	1-822-798-11	USB CONNECTOR (♆)	

Ref. No.	Part No.	Description	Remark
FP1	A-1848-302-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000P)	
FP1	A-1848-303-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000E)	
FP1	A-1848-304-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4050U)	
FP1	A-1848-305-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000U)	
FP1	A-1848-306-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4054U)	
J901	1-842-936-12	JACK (SMALL TYPE) (DIA. 3.5) (AUX)	
LCD901	1-811-485-11	DISPLAY PANEL, LIQUID CRYSTAL	
RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/SELECT/📞)	

6-3. CD MECHANISM SECTION (MG-101CA-188)



Note: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

Ref. No.	Part No.	Description	Remark
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY 08 (Former type)	
101	A-1866-801-A	MECHANICAL BLOCK (11CA) ASSY (New type)	
⚠ 102	A-1284-705-A	DAXEV08	
⚠ 103	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)	
104	2-626-869-31	SCREW (M2X3), SERRATION	
105	3-686-458-21	SCREW (P1.4), TAPPING	
106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
107	A-1823-723-A	SERVO BOARD, COMPLETE (Former type)	
107	A-1866-089-A	SERVO BOARD, COMPLETE (New type)	
108	2-134-636-71	SCREW (M1.7X2.5)	

SECTION 7
ELECTRICAL PARTS LIST

ANTENNA | BT | KEY

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: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  IND : Indian model
  MX : Mexican model
  RU : Russian model

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

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

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

Ref. No.	Part No.	Description				Remark
	A-1847-636-A	ANTENNA BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
CN001	1-821-559-11	CONNECTOR, COAXIAL (SMT TYPE)				
**********						
	A-1847-637-A	BT BOARD, COMPLETE (Included in MAIN board)				
		**********				
When BT board is defective, exchange the complete mounted board.						
**********						
		KEY BOARD				
		**********				
		< CAPACITOR >				
C900	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C901	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C905	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C906	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C907	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
C908	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C909	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C910	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C911	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C912	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
C913	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
C914	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	
		< CONNECTOR >				
CN901	1-842-265-22	PLUG, CONNECTOR 20P				
		< DIODE >				
D900	6-503-213-01	DIODE RKZ18B2KGP1				
D903	6-503-205-01	DIODE RKZ6.8B2KGP1				
D904	6-503-205-01	DIODE RKZ6.8B2KGP1				
D905	6-503-205-01	DIODE RKZ6.8B2KGP1				
D981	6-503-202-01	DIODE RKZ5.1B2KGP1				
D982	6-502-961-01	DIODE DA2J10100L				
		< SHORT CHIP >				
FB901	1-216-864-11	SHORT CHIP	0			
FB902	1-216-864-11	SHORT CHIP	0			
FB903	1-216-864-11	SHORT CHIP	0			

Ref. No.	Part No.	Description				Remark
		< IC >				
IC901	6-717-496-01	IC LC75839PW-US-H				
IC902	6-600-629-01	IC RS-470 (🖼)				
		< LED >				
LED900	6-503-357-01	LED SMLV56RGB1U1 (LCD BACK LIGHT)				
LED902	6-503-357-01	LED SMLV56RGB1U1 (RING ILLUMINATION)				
LED903	6-503-357-01	LED SMLV56RGB1U1 (KEY ILLUMINATION)				
		< TRANSISTOR >				
Q900	6-551-272-01	TRANSISTOR RT3CLLM				
Q901	6-551-272-01	TRANSISTOR RT3CLLM				
Q902	6-551-272-01	TRANSISTOR RT3CLLM				
Q903	6-551-272-01	TRANSISTOR RT3CLLM				
Q904	6-551-272-01	TRANSISTOR RT3CLLM				
Q905	6-551-272-01	TRANSISTOR RT3CLLM				
Q906	6-551-272-01	TRANSISTOR RT3CLLM				
Q907	6-551-272-01	TRANSISTOR RT3CLLM				
Q908	6-551-272-01	TRANSISTOR RT3CLLM				
		< RESISTOR >				
R900	1-216-810-11	METAL CHIP	120	5%	1/10W	
R901	1-216-809-11	METAL CHIP	100	5%	1/10W	
R903	1-216-810-11	METAL CHIP	120	5%	1/10W	
R904	1-216-807-11	METAL CHIP	68	5%	1/10W	
R905	1-216-810-11	METAL CHIP	120	5%	1/10W	
R906	1-216-808-11	METAL CHIP	82	5%	1/10W	
R907	1-216-812-11	METAL CHIP	180	5%	1/10W	
R908	1-216-813-11	METAL CHIP	220	5%	1/10W	
R909	1-216-810-11	METAL CHIP	120	5%	1/10W	
R910	1-216-811-11	METAL CHIP	150	5%	1/10W	
R911	1-216-810-11	METAL CHIP	120	5%	1/10W	
R912	1-216-811-11	METAL CHIP	150	5%	1/10W	
R913	1-216-811-11	METAL CHIP	150	5%	1/10W	
R914	1-216-810-11	METAL CHIP	120	5%	1/10W	
R915	1-216-807-11	METAL CHIP	68	5%	1/10W	
R916	1-216-810-11	METAL CHIP	120	5%	1/10W	
R917	1-216-808-11	METAL CHIP	82	5%	1/10W	
R922	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R923	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R924	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R925	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R926	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R928	1-216-833-11	METAL CHIP	10K	5%	1/10W	

KEY **MAIN**

Ref. No.	Part No.	Description			Remark
R929	1-216-833-11	METAL CHIP	10K	5%	1/10W
R930	1-216-833-11	METAL CHIP	10K	5%	1/10W
R931	1-216-807-11	METAL CHIP	68	5%	1/10W
R932	1-216-807-11	METAL CHIP	68	5%	1/10W
R933	1-216-806-11	METAL CHIP	56	5%	1/10W
R934	1-216-805-11	METAL CHIP	47	5%	1/10W
R935	1-216-804-11	METAL CHIP	39	5%	1/10W
R936	1-216-808-11	METAL CHIP	82	5%	1/10W
R937	1-216-814-11	METAL CHIP	270	5%	1/10W
R938	1-216-808-11	METAL CHIP	82	5%	1/10W
R939	1-216-811-11	METAL CHIP	150	5%	1/10W
R940	1-216-807-11	METAL CHIP	68	5%	1/10W
R941	1-216-808-11	METAL CHIP	82	5%	1/10W
R942	1-216-810-11	METAL CHIP	120	5%	1/10W
R943	1-216-808-11	METAL CHIP	82	5%	1/10W
R944	1-216-808-11	METAL CHIP	82	5%	1/10W
R945	1-216-806-11	METAL CHIP	56	5%	1/10W
R946	1-216-805-11	METAL CHIP	47	5%	1/10W
R947	1-216-804-11	METAL CHIP	39	5%	1/10W
R948	1-216-808-11	METAL CHIP	82	5%	1/10W
R949	1-216-820-11	METAL CHIP	820	5%	1/10W
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-216-821-11	METAL CHIP	1K	5%	1/10W
R952	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R953	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R954	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R955	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R956	1-216-820-11	METAL CHIP	820	5%	1/10W
R957	1-216-821-11	METAL CHIP	1K	5%	1/10W
R958	1-216-821-11	METAL CHIP	1K	5%	1/10W
R959	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R960	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R961	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R962	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R964	1-216-817-11	METAL CHIP	470	5%	1/10W
R965	1-216-817-11	METAL CHIP	470	5%	1/10W
R966	1-216-817-11	METAL CHIP	470	5%	1/10W
R967	1-216-295-91	SHORT CHIP	0		
R970	1-216-802-11	METAL CHIP	27	5%	1/10W
R971	1-216-802-11	METAL CHIP	27	5%	1/10W
R974	1-216-821-11	METAL CHIP	1K	5%	1/10W
R975	1-216-811-11	METAL CHIP	150	5%	1/10W
R976	1-216-811-11	METAL CHIP	150	5%	1/10W
R980	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-857-11	METAL CHIP	1M	5%	1/10W
R982	1-216-813-11	METAL CHIP	220	5%	1/10W
R983	1-216-813-11	METAL CHIP	220	5%	1/10W
R984	1-216-809-11	METAL CHIP	100	5%	1/10W
R985	1-216-813-11	METAL CHIP	220	5%	1/10W
R986	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S951	1-798-284-11	TACTILE SWITCH (⏏)			
S952	1-798-284-11	TACTILE SWITCH (SOURCE, ⏻ OFF)			
S953	1-798-284-11	TACTILE SWITCH (SEEK+, ▶▶ ▶▶I)			
S954	1-798-284-11	TACTILE SWITCH (↩ MODE)			
S955	1-798-284-11	TACTILE SWITCH (I◀◀ ◀◀, SEEK–)			
S956	1-798-284-11	TACTILE SWITCH (Q)			
S957	1-798-284-11	TACTILE SWITCH (CALL)			
S959	1-798-284-11	TACTILE SWITCH (⏻ SCRL, DSPL)			

Ref. No.	Part No.	Description			Remark
S960	1-798-284-11	TACTILE SWITCH (PAUSE, 6)			
S961	1-798-284-11	TACTILE SWITCH (MIC/ZAP, 5)			
S962	1-798-284-11	TACTILE SWITCH (SHUF, 4)			
S963	1-798-284-11	TACTILE SWITCH (REP, 3)			
S964	1-798-284-11	TACTILE SWITCH (ALBUM ▲, 2)			
S965	1-798-284-11	TACTILE SWITCH (▼ ALBUM, 1)			
S966	1-798-284-11	TACTILE SWITCH (CAT, PTY) (US, CND)			
S966	1-798-284-11	TACTILE SWITCH (⏻ PTY, AF/TA) (AEP, RU, UK)			
S966	1-798-284-11	TACTILE SWITCH (PTY) (E, EA, MX, IND)			
**********					
	A-1848-290-A	MAIN BOARD, COMPLETE (US, CND)			
	A-1848-291-A	MAIN BOARD, COMPLETE (RU)			
	A-1848-292-A	MAIN BOARD, COMPLETE (E)			
	A-1848-293-A	MAIN BOARD, COMPLETE (EA)			
	A-1848-294-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-1860-397-A	MAIN BOARD, COMPLETE (MX, IND)			
		**********			
					(Including BT board)
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C10	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C11	1-137-765-21	ELECT CHIP	47uF	20%	16V
C15	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C100	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-114-868-11	CERAMIC CHIP	0.1uF	10%	50V
C200	1-124-779-00	ELECT CHIP	10uF	20%	16V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C203	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
					(RU, E, EA, MX, IND)
C206	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C207	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C208	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C209	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C210	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
					(RU, E, EA, MX, IND)
C210	1-218-990-81	SHORT CHIP	0 (US, CND, AEP, UK)		
C211	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
					(RU, E, EA, MX, IND)
C212	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
					(RU, E, EA, MX, IND)
C213	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
					(RU, E, EA, MX, IND)
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
					(RU, E, EA, MX, IND)
C301	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C302	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
C303	1-137-893-11	ELECT CHIP	22uF	20%	16V
C305	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
C306	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C308	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C309	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C311	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C312	1-124-779-00	ELECT CHIP	10uF	20%	16V
C313	1-137-765-21	ELECT CHIP	47uF	20%	16V
C314	1-112-064-11	CERAMIC CHIP	2.2uF	10%	10V
C315	1-112-780-11	CERAMIC CHIP	0.47uF	10%	16V

Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

MAIN

Ref. No.	Part No.	Description			Remark
C317	1-112-780-11	CERAMIC CHIP	0.47uF	10%	16V
C319	1-112-780-11	CERAMIC CHIP	0.47uF	10%	16V
C321	1-112-780-11	CERAMIC CHIP	0.47uF	10%	16V
C323	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C326	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C327	1-116-733-11	CERAMIC CHIP	1uF	10%	25V
C329	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
C330	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
C331	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V
C334	1-112-302-11	ELECT	3300uF	20%	16V
C335	1-114-868-11	CERAMIC CHIP	0.1uF	10%	50V
C397	1-114-868-11	CERAMIC CHIP	0.1uF	10%	50V
C398	1-100-905-11	CERAMIC CHIP	0.001uF	10%	50V
C399	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C401	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C402	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C403	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C407	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C409	1-100-588-21	ELECT CHIP	1000uF	20%	6.3V
C410	1-124-779-00	ELECT CHIP	10uF	20%	16V (AEP, RU, UK)
C411	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C413	1-124-779-00	ELECT CHIP	10uF	20%	16V
C414	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C415	1-128-398-11	ELECT CHIP	220uF	20%	16V
C416	1-128-992-21	ELECT CHIP	47uF	20%	25V
C419	1-124-779-00	ELECT CHIP	10uF	20%	16V
C420	1-124-779-00	ELECT CHIP	10uF	20%	16V
C422	1-124-779-00	ELECT CHIP	10uF	20%	16V
C424	1-124-779-00	ELECT CHIP	10uF	20%	16V
C425	1-124-779-00	ELECT CHIP	10uF	20%	16V
C431	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C434	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C436	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C437	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C438	1-112-064-11	CERAMIC CHIP	2.2uF	10%	10V
C439	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C440	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C442	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C445	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C450	1-165-908-11	CERAMIC CHIP	1uF	10%	10V (US, CND)
C451	1-112-064-11	CERAMIC CHIP	2.2uF	10%	10V (US, CND)
C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V (US, CND)
C457	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C501	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (EXCEPT EA)
C502	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (EXCEPT EA)
C504	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C505	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C507	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C508	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
C510	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C512	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C514	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C518	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C520	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C521	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C522	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C523	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C601	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C605	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C606	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C607	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C608	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C609	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C610	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C612	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C613	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C614	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C615	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C616	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C617	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C680	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C681	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C682	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C683	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C685	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C686	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C687	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C688	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C689	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C690	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C701	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C711	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C712	1-126-208-21	ELECT CHIP	47uF	20%	4V
C713	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C714	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C715	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C716	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C717	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C718	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
C719	1-100-579-81	CERAMIC CHIP	0.0056uF	10%	25V
C720	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C721	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C722	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C724	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C725	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C726	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C727	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C728	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C729	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C730	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C732	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C733	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C734	1-164-860-11	CERAMIC CHIP	27PF	5%	50V
C735	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C737	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C738	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C739	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C741	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
* C742	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
C743	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
* C744	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C745	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
* C746	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
C747	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C748	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C750	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C751	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C752	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C753	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C754	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C756	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C759	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C760	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C761	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C764	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C766	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C767	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C768	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C771	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
C772	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
C776	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C777	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C778	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C779	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C780	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C781	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C782	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C783	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C784	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
C786	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C787	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C788	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C789	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C792	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C830	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V (US, CND)
C831	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V (US, CND)
C876	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (US, CND)
C877	1-164-874-11	CERAMIC CHIP	100PF	5%	50V (US, CND)
C878	1-164-874-11	CERAMIC CHIP	100PF	5%	50V (US, CND)
C1301	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C1304	1-116-486-21	CERAMIC CHIP	47uF	20%	16V
C1305	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
C1306	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C1307	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1308	1-112-064-11	CERAMIC CHIP	2.2uF	10%	10V
C1309	1-114-323-11	CERAMIC CHIP	0.01uF	10%	50V
C1310	1-114-582-91	CERAMIC CHIP	0.1uF	10%	16V
C1311	1-117-681-11	ELECT CHIP	100uF	20%	16V
C1312	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C1315	1-100-055-21	CERAMIC CHIP	22uF	20%	16V
C1316	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V (EXCEPT EA)
C1316	1-114-246-11	CERAMIC CHIP	1uF	20%	25V (EA)
C1317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remark
		< TUNER UNIT/CONNECTOR >	
CN01	A-1832-182-A	TUX-DSP02 (FM/AM tuner unit)	
CN102	1-842-266-22	SOCKET, CONNECTOR 20P	
CN201	1-794-509-11	PIN, CONNECTOR (PC BOARD) 3P	
CN301	1-774-701-21	PIN, CONNECTOR 16P	
CN501	1-779-806-21	CONNECTOR 8P	
CN601	1-785-900-21	CONNECTOR 5P	
CN602	1-785-125-21	CONNECTOR 6P	
CN700	1-842-487-12	CONNECTOR, BOARD TO BOARD 28P	
CN802	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (US, CND)	
		< DIODE >	
D101	6-503-205-01	DIODE RKZ6.8B2KGP1	
D102	6-503-205-01	DIODE RKZ6.8B2KGP1	
D110	6-503-205-01	DIODE RKZ6.8B2KGP1	
D119	6-503-205-01	DIODE RKZ6.8B2KGP1	
D200	6-502-131-01	DIODE LRB751V-40T1G	
D201	6-503-205-01	DIODE RKZ6.8B2KGP1	
D202	6-503-205-01	DIODE RKZ6.8B2KGP1 (RU, E, EA, MX, IND)	
D203	6-503-205-01	DIODE RKZ6.8B2KGP1 (RU, E, EA, MX, IND)	
D204	6-501-656-01	DIODE LBAT54ALT1G	
D301	6-503-213-01	DIODE RKZ18B2KGP1	
D306	6-503-238-01	DIODE GN1G (AEP, UK)	
D307	6-503-213-01	DIODE RKZ18B2KGP1	
D308	6-502-961-01	DIODE DA2J10100L	
D318	6-503-238-01	DIODE GN1G	
D320	6-503-213-01	DIODE RKZ18B2KGP1	
D321	6-503-238-01	DIODE GN1G	
D323	6-503-213-01	DIODE RKZ18B2KGP1	
D324	6-503-238-01	DIODE GN1G	
D401	6-502-961-01	DIODE DA2J10100L	
D403	6-500-335-01	DIODE MC2838-T112-1	
D530	6-502-131-01	DIODE LRB751V-40T1G	
D731	6-501-013-01	DIODE BAT54ALT1G	
D805	6-503-206-01	DIODE RKZ7.5B2KGP1	
D806	6-503-213-01	DIODE RKZ18B2KGP1	
D820	6-503-213-01	DIODE RKZ18B2KGP1 (US, CND)	
D831	6-503-213-01	DIODE RKZ18B2KGP1 (US, CND)	
D832	6-503-213-01	DIODE RKZ18B2KGP1 (US, CND)	
D1300	6-503-319-01	DIODE DB2X41400L	
		< FUSE >	
F3	1-576-415-11	FUSE (2 A/32 V) (US, CND)	
F4	1-576-415-11	FUSE (2 A/32 V)	
		< FERRITE BEAD/JUMPER RESISTOR >	
FB19	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB201	1-400-940-21	INDUCTOR, FERRITE BEAD (1005)	
FB202	1-400-940-21	INDUCTOR, FERRITE BEAD (1005)	
FB398	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB501	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB610	1-216-864-11	SHORT CHIP 0	
FB611	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB612	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB694	1-216-864-11	SHORT CHIP 0	
FB695	1-216-864-11	SHORT CHIP 0	
FB696	1-216-864-11	SHORT CHIP 0	
FB698	1-216-864-11	SHORT CHIP 0	
FB717	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark
FB718	1-216-864-11	SHORT CHIP 0	
FB719	1-216-864-11	SHORT CHIP 0	
FB720	1-216-864-11	SHORT CHIP 0	
FB721	1-216-864-11	SHORT CHIP 0	
FB722	1-216-864-11	SHORT CHIP 0	
FB724	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
FB750	1-216-864-11	SHORT CHIP 0	
FB751	1-216-864-11	SHORT CHIP 0	
FB760	1-216-864-11	SHORT CHIP 0	
FB762	1-216-864-11	SHORT CHIP 0	
FB782	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)	
FB890	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB891	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
		< IC >	
IC201	6-711-719-01	IC TS5A3159DCKR (RU, E, EA, MX, IND)	
IC301	6-715-848-21	IC TDF8556AJ/N5 (EXCEPT AEP, UK)	
IC301	6-715-849-11	IC TDF8556AJ/N5/M5 (AEP, UK)	
IC401	6-714-623-01	IC BD3467FV-E2	
IC402	6-717-679-01	IC NJM2881F33 (TE1)	
IC403	6-712-776-01	IC PST8228UL	
IC501	6-718-291-01	IC R5F3650NBDZ98FA (for SERVICE)	
IC505	6-718-195-01	IC M25PE80-VMW6TG	
IC601	(Not supplied)	IC TMPM321FEFG (SY)	
IC680	6-713-560-01	IC MFI341S2162	
IC681	6-711-238-01	IC NJM2878F3-15 (TE2)	
IC682	6-711-238-01	IC NJM2878F3-15 (TE2)	
IC701	6-715-712-01	IC TC94A99FG-003 (SY)	
IC830	6-710-376-01	IC 74LVC1G17GW-125 (US, CND)	
IC831	8-759-653-98	IC TC7WT126FU (TE12R) (US, CND)	
IC1300	6-717-575-01	IC OZ529IGN-A1-TR	
		< JACK >	
J1	1-822-949-21	JACK (ANT) (ANTENNA IN)	
J402	1-822-712-11	JACK, PIN 4P (FRONT AUDIO OUT, REAR/SUB AUDIO OUT) (AEP, RU, UK)	
J403	1-822-714-21	JACK, PIN 6P (FRONT AUDIO OUT, REAR AUDIO OUT, SUB OUT (MONO)) (US, CND, E, EA, MX, IND)	
J801	1-566-822-81	JACK (REMOTE IN)	
		< COIL >	
L1	1-400-073-21	INDUCTOR 4.7uH	
L301	1-460-443-11	CHOKE COIL 140uH	
L1300	1-457-874-11	CHOKE COIL 10uH	
L1301	1-481-904-11	INDUCTOR 47uH	
		< TRANSISTOR >	
Q201	6-552-410-01	TRANSISTOR DRA5114E0L (RU, E, EA, MX, IND)	
Q202	6-552-410-01	TRANSISTOR DRA5114E0L (RU, E, EA, MX, IND)	
Q203	6-552-410-01	TRANSISTOR DRA5114E0L	
Q204	6-552-430-01	TRANSISTOR DRC5114E0L	
Q301	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q302	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
Q303	6-552-430-01	TRANSISTOR DRC5114E0L	
Q401	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q402	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q403	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q404	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q405	6-552-856-01	TRANSISTOR LTC914TUBFS8TL	
Q406	6-552-856-01	TRANSISTOR LTC914TUBFS8TL (AEP, RU, UK)	
Q407	6-552-410-01	TRANSISTOR DRA5114E0L	
Q409	6-552-430-01	TRANSISTOR DRC5114E0L	
Q682	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF	
Q683	8-729-038-37	TRANSISTOR RT1N141M-TP-1	
Q710	8-729-024-43	TRANSISTOR 2SA1365-T112-1EF	
Q801	6-552-444-01	TRANSISTOR DRC5144E0L	
Q802	6-552-430-01	TRANSISTOR DRC5114E0L	
Q803	8-729-620-13	TRANSISTOR 2SC4154TP-1EF	
		< RESISTOR >	
R10	1-218-990-81	SHORT CHIP 0	
R11	1-216-864-11	SHORT CHIP 0	
R12	1-216-864-11	SHORT CHIP 0	
R13	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R19	1-216-864-11	SHORT CHIP 0	
R116	1-216-295-91	SHORT CHIP 0	
R121	1-216-864-11	SHORT CHIP 0	
R122	1-216-864-11	SHORT CHIP 0	
R199	1-216-864-11	SHORT CHIP 0	
R200	1-216-821-11	METAL CHIP 1K 5% 1/10W (RU, E, EA, MX, IND)	
R202	1-218-990-81	SHORT CHIP 0	
R203	1-216-829-11	METAL CHIP 4.7K 5% 1/10W (RU, E, EA, MX, INDU)	
R204	1-218-957-11	METAL CHIP 2.2K 5% 1/16W (RU, E, EA, MX, IND)	
R205	1-218-990-81	SHORT CHIP 0 (RU, E, EA, MX, IND)	
R206	1-218-990-81	SHORT CHIP 0 (RU, E, EA, MX, IND)	
R208	1-218-957-11	METAL CHIP 2.2K 5% 1/16W	
R209	1-218-953-11	METAL CHIP 1K 5% 1/16W (RU, E, EA, MX, IND)	
R210	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R211	1-218-941-81	METAL CHIP 100 5% 1/16W	
R212	1-218-941-81	METAL CHIP 100 5% 1/16W	
R213	1-218-941-81	METAL CHIP 100 5% 1/16W	
R214	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R215	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R216	1-218-941-81	METAL CHIP 100 5% 1/16W	
R217	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R218	1-218-953-11	METAL CHIP 1K 5% 1/16W	
R219	1-216-864-11	SHORT CHIP 0	
R300	1-216-296-11	SHORT CHIP 0	
R301	1-218-941-81	METAL CHIP 100 5% 1/16W	
R302	1-218-941-81	METAL CHIP 100 5% 1/16W	
R303	1-216-182-00	METAL CHIP 220 5% 1/8W	
R304	1-216-182-00	METAL CHIP 220 5% 1/8W	
R305	1-216-182-00	METAL CHIP 220 5% 1/8W	
R306	1-216-182-00	METAL CHIP 220 5% 1/8W	
R307	1-218-943-11	METAL CHIP 150 5% 1/16W	
R308	1-216-295-91	SHORT CHIP 0	
R309	1-218-973-11	METAL CHIP 47K 5% 1/16W	
R311	1-216-073-91	METAL CHIP 10K 5% 1/10W	
R312	1-218-973-11	METAL CHIP 47K 5% 1/16W	
R313	1-218-973-11	METAL CHIP 47K 5% 1/16W	

Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

MAIN

Ref. No.	Part No.	Description			Remark
R314	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R315	1-218-969-11	METAL CHIP	22K	5%	1/16W
R316	1-218-977-11	METAL CHIP	100K	5%	1/16W
R317	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R318	1-216-821-11	METAL CHIP	1K	5%	1/10W
R320	1-218-990-81	SHORT CHIP	0		
R321	1-218-973-11	METAL CHIP	47K	5%	1/16W
R322	1-216-296-11	SHORT CHIP	0		
R340	1-216-864-11	SHORT CHIP	0		
R378	1-216-073-91	METAL CHIP	10K	5%	1/10W
R395	1-216-296-11	SHORT CHIP	0		
R396	1-216-296-11	SHORT CHIP	0		
R400	1-216-295-91	SHORT CHIP	0		
R401	1-218-977-11	METAL CHIP	100K	5%	1/16W
R402	1-218-945-11	METAL CHIP	220	5%	1/16W (AEP, RU, UK)
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, RU, UK)
R404	1-218-945-11	METAL CHIP	220	5%	1/16W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R406	1-218-990-81	SHORT CHIP	0 (AEP, RU, UK)		
R407	1-218-945-11	METAL CHIP	220	5%	1/16W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-218-945-11	METAL CHIP	220	5%	1/16W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R412	1-218-990-81	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R414	1-216-864-11	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R415	1-216-049-11	METAL CHIP	1K	5%	1/10W
R416	1-216-049-11	METAL CHIP	1K	5%	1/10W
R417	1-216-834-11	METAL CHIP	12K	5%	1/10W
R418	1-216-834-11	METAL CHIP	12K	5%	1/10W
R419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R420	1-216-295-91	SHORT CHIP	0		
R421	1-218-945-11	METAL CHIP	220	5%	1/16W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-218-945-11	METAL CHIP	220	5%	1/16W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-218-990-81	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R427	1-216-864-11	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R429	1-216-801-11	METAL CHIP	22	5%	1/10W
R430	1-216-864-11	SHORT CHIP	0		
R431	1-216-864-11	SHORT CHIP	0		
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W
R433	1-216-296-11	SHORT CHIP	0		
R434	1-216-296-11	SHORT CHIP	0		
R442	1-218-990-81	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R443	1-218-990-81	SHORT CHIP	0 (US, CND, E, EA, MX, IND)		
R501	1-218-977-11	METAL CHIP	100K	5%	1/16W
R502	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-218-977-11	METAL CHIP	100K	5%	1/16W
R510	1-218-941-81	METAL CHIP	100	5%	1/16W
R511	1-218-941-81	METAL CHIP	100	5%	1/16W
R513	1-218-977-11	METAL CHIP	100K	5%	1/16W
R514	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R515	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R516	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R517	1-218-953-11	METAL CHIP	1K	5%	1/16W
R518	1-218-953-11	METAL CHIP	1K	5%	1/16W
R521	1-218-971-11	METAL CHIP	33K	5%	1/16W
R522	1-218-971-11	METAL CHIP	33K	5%	1/16W
R523	1-218-941-81	METAL CHIP	100	5%	1/16W
R524	1-218-941-81	METAL CHIP	100	5%	1/16W
R525	1-218-941-81	METAL CHIP	100	5%	1/16W
R529	1-218-949-11	METAL CHIP	470	5%	1/16W
R531	1-218-977-11	METAL CHIP	100K	5%	1/16W
R533	1-218-953-11	METAL CHIP	1K	5%	1/16W
R534	1-218-953-11	METAL CHIP	1K	5%	1/16W
R535	1-218-949-11	METAL CHIP	470	5%	1/16W
R536	1-218-977-11	METAL CHIP	100K	5%	1/16W
R538	1-218-965-11	METAL CHIP	10K	5%	1/16W
R539	1-218-990-81	SHORT CHIP	0		
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R541	1-245-604-11	METAL CHIP	10M	5%	1/16W
R542	1-218-981-91	METAL CHIP	220K	5%	1/16W
R543	1-218-990-81	SHORT CHIP	0		
R544	1-216-857-11	METAL CHIP	1M	5%	1/10W
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W
R546	1-218-977-11	METAL CHIP	100K	5%	1/16W
R547	1-218-941-81	METAL CHIP	100	5%	1/16W
R548	1-218-990-81	SHORT CHIP	0		
R549	1-218-990-81	SHORT CHIP	0		
R550	1-218-990-81	SHORT CHIP	0		
R552	1-218-977-11	METAL CHIP	100K	5%	1/16W
R553	1-218-949-11	METAL CHIP	470	5%	1/16W
R555	1-218-990-81	SHORT CHIP	0		
R556	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R557	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R560	1-218-977-11	METAL CHIP	100K	5%	1/16W
R561	1-218-990-81	SHORT CHIP	0		
R562	1-218-990-81	SHORT CHIP	0		
R563	1-218-941-81	METAL CHIP	100	5%	1/16W
R564	1-216-809-11	METAL CHIP	100	5%	1/10W
R565	1-218-977-11	METAL CHIP	100K	5%	1/16W
R566	1-218-977-11	METAL CHIP	100K	5%	1/16W
R567	1-218-977-11	METAL CHIP	100K	5%	1/16W
R568	1-216-845-11	METAL CHIP	100K	5%	1/10W
R569	1-218-977-11	METAL CHIP	100K	5%	1/16W
R570	1-218-941-81	METAL CHIP	100	5%	1/16W
R571	1-218-941-81	METAL CHIP	100	5%	1/16W
R572	1-218-941-81	METAL CHIP	100	5%	1/16W
R573	1-218-941-81	METAL CHIP	100	5%	1/16W
R574	1-218-941-81	METAL CHIP	100	5%	1/16W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W
R577	1-218-977-11	METAL CHIP	100K	5%	1/16W
R578	1-216-833-11	METAL CHIP	10K	5%	1/10W
R579	1-216-833-11	METAL CHIP	10K	5%	1/10W
R584	1-218-977-11	METAL CHIP	100K	5%	1/16W
R585	1-216-845-11	METAL CHIP	100K	5%	1/10W
R587	1-218-977-11	METAL CHIP	100K	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W
R602	1-218-941-81	METAL CHIP	100	5%	1/16W
R603	1-218-941-81	METAL CHIP	100	5%	1/16W
R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W
R607	1-218-977-11	METAL CHIP	100K	5%	1/16W
R613	1-218-973-11	METAL CHIP	47K	5%	1/16W
R614	1-218-965-11	METAL CHIP	10K	5%	1/16W
R615	1-218-953-11	METAL CHIP	1K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R616	1-218-953-11	METAL CHIP	1K	5%	1/16W
R617	1-218-953-11	METAL CHIP	1K	5%	1/16W
R618	1-218-953-11	METAL CHIP	1K	5%	1/16W
R619	1-218-953-11	METAL CHIP	1K	5%	1/16W
R620	1-218-953-11	METAL CHIP	1K	5%	1/16W
R621	1-218-941-81	METAL CHIP	100	5%	1/16W
R622	1-216-833-11	METAL CHIP	10K	5%	1/10W
R623	1-218-990-81	SHORT CHIP	0		
R625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R637	1-218-971-11	METAL CHIP	33K	5%	1/16W
R638	1-218-971-11	METAL CHIP	33K	5%	1/16W
R639	1-218-965-11	METAL CHIP	10K	5%	1/16W
R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R642	1-218-965-11	METAL CHIP	10K	5%	1/16W
R643	1-216-845-11	METAL CHIP	100K	5%	1/10W
R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R645	1-218-941-81	METAL CHIP	100	5%	1/16W
R646	1-218-941-81	METAL CHIP	100	5%	1/16W
R647	1-218-941-81	METAL CHIP	100	5%	1/16W
R648	1-218-941-81	METAL CHIP	100	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R652	1-218-977-11	METAL CHIP	100K	5%	1/16W
R653	1-218-977-11	METAL CHIP	100K	5%	1/16W
R654	1-218-977-11	METAL CHIP	100K	5%	1/16W
R655	1-216-097-11	METAL CHIP	100K	5%	1/10W
R656	1-218-977-11	METAL CHIP	100K	5%	1/16W
R657	1-218-941-81	METAL CHIP	100	5%	1/16W
R658	1-218-990-81	SHORT CHIP	0		
R661	1-218-941-81	METAL CHIP	100	5%	1/16W
R662	1-218-941-81	METAL CHIP	100	5%	1/16W
R663	1-218-941-81	METAL CHIP	100	5%	1/16W
R664	1-218-941-81	METAL CHIP	100	5%	1/16W
R665	1-218-941-81	METAL CHIP	100	5%	1/16W
R666	1-218-941-81	METAL CHIP	100	5%	1/16W
R667	1-218-965-11	METAL CHIP	10K	5%	1/16W
R668	1-218-989-11	METAL CHIP	1M	5%	1/16W
R669	1-218-990-81	SHORT CHIP	0		
R671	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R672	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R673	1-216-835-11	METAL CHIP	15K	5%	1/10W
R674	1-216-835-11	METAL CHIP	15K	5%	1/10W
R675	1-218-977-11	METAL CHIP	100K	5%	1/16W
R676	1-218-977-11	METAL CHIP	100K	5%	1/16W
R680	1-218-953-11	METAL CHIP	1K	5%	1/16W
R681	1-216-845-11	METAL CHIP	100K	5%	1/10W
R682	1-216-809-11	METAL CHIP	100	5%	1/10W
R683	1-218-965-11	METAL CHIP	10K	5%	1/16W
R684	1-218-965-11	METAL CHIP	10K	5%	1/16W
R686	1-218-969-11	METAL CHIP	22K	5%	1/16W
R687	1-218-953-11	METAL CHIP	1K	5%	1/16W
R688	1-216-864-11	SHORT CHIP	0		
R689	1-216-864-11	SHORT CHIP	0		
R690	1-220-200-81	METAL CHIP	30K	5%	1/16W
R691	1-218-971-11	METAL CHIP	33K	5%	1/16W
R692	1-218-990-81	SHORT CHIP	0		
R693	1-218-990-81	SHORT CHIP	0		
R695	1-216-864-11	SHORT CHIP	0		
R697	1-218-990-81	SHORT CHIP	0		
R699	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R710	1-218-953-11	METAL CHIP	1K	5%	1/16W
R711	1-218-929-11	METAL CHIP	10	5%	1/16W
R712	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R714	1-218-990-81	SHORT CHIP	0		
R715	1-218-990-81	SHORT CHIP	0		
R716	1-218-990-81	SHORT CHIP	0		
R717	1-218-947-11	METAL CHIP	330	5%	1/16W
R718	1-218-947-11	METAL CHIP	330	5%	1/16W
R719	1-218-947-11	METAL CHIP	330	5%	1/16W
R720	1-218-947-11	METAL CHIP	330	5%	1/16W
R721	1-218-947-11	METAL CHIP	330	5%	1/16W
R722	1-218-989-11	METAL CHIP	1M	5%	1/16W
R723	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R724	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R725	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R726	1-218-965-11	METAL CHIP	10K	5%	1/16W
R727	1-218-965-11	METAL CHIP	10K	5%	1/16W
R728	1-218-977-11	METAL CHIP	100K	5%	1/16W
R729	1-218-977-11	METAL CHIP	100K	5%	1/16W
R730	1-218-977-11	METAL CHIP	100K	5%	1/16W
R731	1-216-845-11	METAL CHIP	100K	5%	1/10W
R732	1-218-990-81	SHORT CHIP	0		
R733	1-218-990-81	SHORT CHIP	0		
R736	1-218-977-11	METAL CHIP	100K	5%	1/16W
R737	1-218-953-11	METAL CHIP	1K	5%	1/16W
R738	1-218-953-11	METAL CHIP	1K	5%	1/16W
R739	1-218-953-11	METAL CHIP	1K	5%	1/16W
R740	1-218-953-11	METAL CHIP	1K	5%	1/16W
R741	1-218-941-81	METAL CHIP	100	5%	1/16W
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R743	1-218-967-11	METAL CHIP	15K	5%	1/16W
R744	1-218-983-11	METAL CHIP	330K	5%	1/16W
R745	1-218-941-81	METAL CHIP	100	5%	1/16W
R746	1-218-990-81	SHORT CHIP	0		
R747	1-218-990-81	SHORT CHIP	0		
R748	1-218-990-81	SHORT CHIP	0		
R749	1-218-990-81	SHORT CHIP	0		
R750	1-218-969-11	METAL CHIP	22K	5%	1/16W
R751	1-218-969-11	METAL CHIP	22K	5%	1/16W
R761	1-216-864-11	SHORT CHIP	0		
R763	1-216-864-11	SHORT CHIP	0		
R764	1-216-864-11	SHORT CHIP	0		
R765	1-216-864-11	SHORT CHIP	0		
R766	1-216-864-11	SHORT CHIP	0		
R814	1-218-981-91	METAL CHIP	220K	5%	1/16W
R815	1-218-977-11	METAL CHIP	100K	5%	1/16W
R818	1-218-981-91	METAL CHIP	220K	5%	1/16W
R819	1-218-953-11	METAL CHIP	1K	5%	1/16W
R820	1-218-953-11	METAL CHIP	1K	5%	1/16W
R830	1-218-972-11	METAL CHIP	39K	5%	1/16W (US, CND)
R831	1-218-977-11	METAL CHIP	100K	5%	1/16W (US, CND)
R833	1-218-975-11	METAL CHIP	68K	5%	1/16W (US, CND)
R833	1-218-977-11	METAL CHIP	100K	5%	1/16W (EXCEPT US, CND)
R834	1-218-977-11	METAL CHIP	100K	5%	1/16W (US, CND)
R835	1-216-864-11	SHORT CHIP	0 (US, CND)		

MAIN **SENSOR** **SERVO**

Ref. No.	Part No.	Description			Remark
R836	1-216-801-11	METAL CHIP	22	5%	1/10W (US, CND)
R855	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R856	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R857	1-216-809-11	METAL CHIP	100	5%	1/10W (US, CND)
R864	1-216-864-11	SHORT CHIP	0		
R865	1-216-864-11	SHORT CHIP	0		
R870	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (US, CND)
R871	1-216-834-11	METAL CHIP	12K	5%	1/10W (US, CND)
R872	1-216-834-11	METAL CHIP	12K	5%	1/10W (US, CND)
R873	1-216-295-91	SHORT CHIP	0 (US, CND)		
R874	1-216-049-11	METAL CHIP	1K	5%	1/10W (US, CND)
R875	1-216-049-11	METAL CHIP	1K	5%	1/10W (US, CND)
R899	1-216-296-11	SHORT CHIP	0		
R1300	1-216-817-11	METAL CHIP	470	5%	1/10W
R1301	1-216-809-11	METAL CHIP	100	5%	1/10W
R1302	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1305	1-208-905-11	METAL CHIP	5.6K	0.5%	1/16W
R1307	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R1308	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R1310	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1311	1-218-885-11	METAL CHIP	39K	0.5%	1/10W
R1312	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1313	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1315	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1317	1-218-990-81	SHORT CHIP	0 (US, CND, AEP, UK)		
R1318	1-218-990-81	SHORT CHIP	0 (US, CND, AEP, UK)		
		< VIBRATOR >			
X501	1-814-544-21	VIBRATOR, CERAMIC (7.92 MHz) (EXCEPT EA)			
X501	1-814-548-11	VIBRATOR, CERAMIC (7.92 MHz) (EA)			
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768 kHz)			
X601	1-814-304-11	VIBRATOR, CRYSTAL (12 MHz)			
X701	1-795-561-21	VIBRATOR, CERAMIC (16.934 MHz)			

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SENSOR BOARD
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When SENSOR board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08 (Former type) or MECHANICAL BLOCK (11CA) ASSY (New type).

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	A-1823-723-A	SERVO BOARD, COMPLETE (Former type)
	A-1866-089-A	SERVO BOARD, COMPLETE (New type)

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When SERVO board is defective, exchange the complete mounted board.

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY 08 (Former type)	
101	A-1866-801-A	MECHANICAL BLOCK (11CA) ASSY (New type)	
⚠ 102	A-1284-705-A	DAXEV08	
⚠ 103	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)	
CCB1	1-780-968-11	CONDUCTIVE BOARD, CONNECTION	
CN971	1-822-798-11	USB CONNECTOR (♆)	
FP1	A-1848-302-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000P)	
FP1	A-1848-303-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000E)	
FP1	A-1848-304-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4050U)	
FP1	A-1848-305-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4000U)	
FP1	A-1848-306-A	PANEL COMPLETE ASSY, FRONT (MEX-BT4054U)	
FU301	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10 A/32 V)	
J901	1-842-936-12	JACK (SMALL TYPE) (DIA. 3.5) (AUX)	
LCD901	1-811-485-11	DISPLAY PANEL, LIQUID CRYSTAL	
MIC201	1-542-914-11	MICROPHONE (RU, E, EA, MX, IND)	
MJ1	1-839-686-21	CORD, CONNECTION (MIC) (MIC IN)	(US, CND, AEP, UK)
MJ1	1-839-687-21	CORD, CONNECTION (MIC) (MIC IN)	(RU, E, EA, MX, IND)
PW1	1-839-374-11	CONNECTION CORD FOR AUTOMOBILE (POWER)	(US, CND, E, EA, MX, IND)
PW1	1-839-390-11	CONNECTION CORD (ISO) (POWER)	(AEP, RU, UK)
RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/SELECT/📞)	
WR1	1-838-694-11	LEAD WIRE WITH CONNECTOR	(Bluetooth antenna wire)

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		ACCESSORIES
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	1-489-810-41	REMOTE COMMANDER (RM-X231)
	4-296-017-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, CND)
	4-296-017-21	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP, UK)
	4-296-017-31	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (RU)
	4-296-017-41	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (E, IND)
	4-296-017-51	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (MX)
	4-296-017-61	MANUAL, INSTRUCTION (ENGLISH, ARABIC, PERSIAN) (EA)
	4-296-018-11	MANUAL, INSTRUCTION INSTALL (ENGLISH, FRENCH) (US, CND)
	4-296-018-21	MANUAL, INSTRUCTION INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP, UK)
	4-296-018-31	MANUAL, INSTRUCTION INSTALL (RUSSIAN, UKRAINIAN) (RU)
	4-296-018-41	MANUAL, INSTRUCTION INSTALL (ENGLISH, SPANISH) (E, MX, IND)
	4-296-018-51	MANUAL, INSTRUCTION INSTALL (ENGLISH, ARABIC, PERSIAN) (EA)

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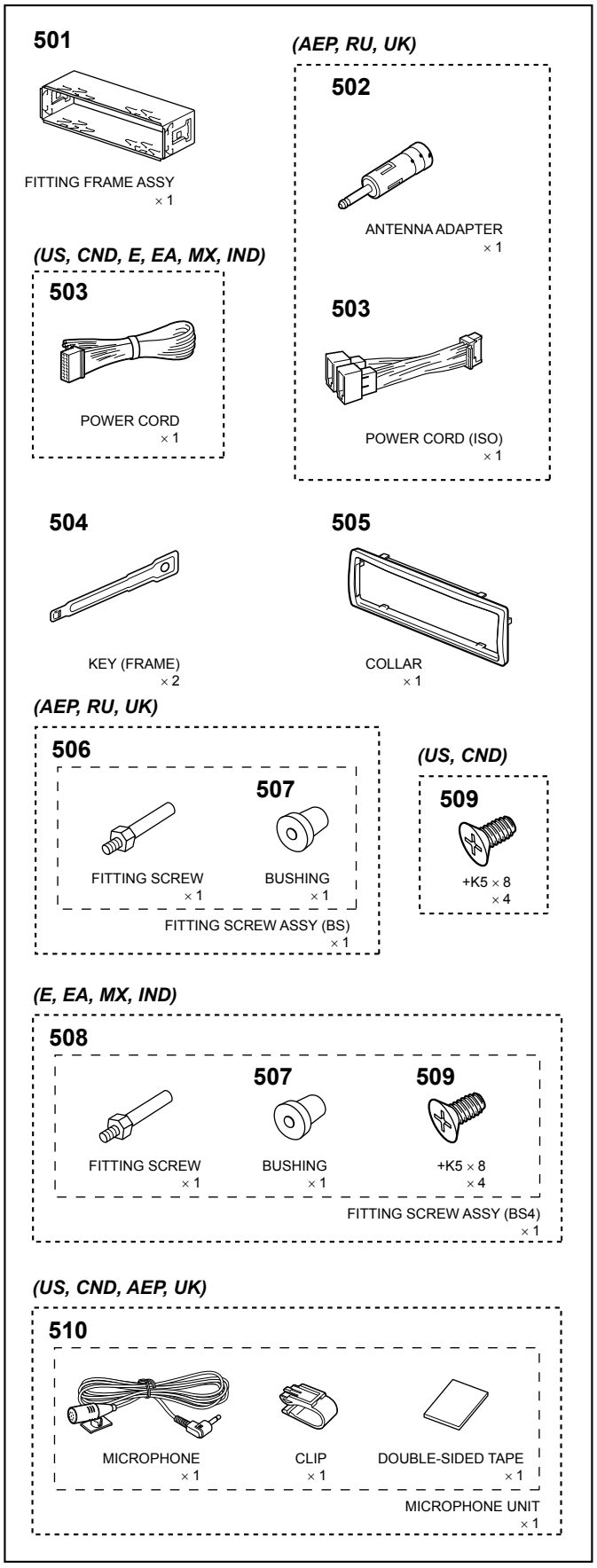
Note: As for the mechanism deck (MG-101CA-188) carried in this unit, component parts have been changed from the midway of production. When you perform repair exchange of the mechanism deck (MG-101CA-188), refer to "ABOUT THE MG-101CA-188 OF FORMER AND NEW" on page 8.

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS **********	
501	X-2548-178-1	FRAME ASSY, FITTING	
502	1-465-459-51	ADAPTOR, ANTENNA (AEP, RU, UK)	
503	1-839-374-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (US, CND, E, EA, MX, IND)	
503	1-839-390-11	CONNECTION CORD (ISO) (POWER) (AEP, RU, UK)	
504	4-276-003-01	KEY (FRAME) (1 piece)	
505	4-278-065-01	COLLAR	
506	X-3382-926-1	SCREW ASSY (BS), FITTING (AEP, RU, UK)	
507	3-349-410-11	BUSHING (EXCEPT US, CND)	
508	X-3381-154-1	SCREW ASSY (BS4), FITTING (E, EA, MX, IND)	
509	3-934-325-01	SCREW, +K (5X8) TAPPING (1 piece) (US, CND, E, EA, MX, IND)	
510	1-542-870-11	MICROPHONE UNIT (US, CND, AEP, UK)	



REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2011.11	New