

MEX-BT4100E/BT4100P/ BT4100U/BT4150U

SERVICE MANUAL

Ver. 1.1 2012.12



Photo: MEX-BT4100P

US Model
Canadian Model
MEX-BT4100P
AEP Model
UK Model
MEX-BT4100U
E Model
MEX-BT4150U
Russian Model
MEX-BT4100E

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	MEX-BT4000E/BT4000P/ BT4000U/BT4050U
Mechanism Type	MG-101CA-188
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

(BT4100P only)

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.

(BT4100P only)

AUDIO POWER SPECIFICATIONS



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 (BT4100P)

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 (BT4100E/BT4100U)

FM

Tuning range:
BT4100E
FM1/FM2: 87.5 – 108.0 MHz (50 kHz step)
FM3: 65 – 74 MHz (30 kHz step)
BT4100U
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 (BT4150U: E, Mexican models)

FM

Tuning range:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 108.0 MHz (at 100 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)

FM tuning step:

50 kHz/100 kHz/200 kHz switchable

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 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 (BT4150U: 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)
SPP (Serial Port 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:
Audio outputs terminal (front, rear, sub)
Power antenna (aerial)/Power amplifier control terminal (REM OUT)

Inputs:

SiriusXM input terminal (BT4100P only)
Remote controller input terminal
Antenna (aerial) input terminal
MIC input terminal
AUX input jack (stereo mini jack)
USB port

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

Dimensions: Approx. 178 × 50 × 177 mm

(7 1/8 × 2 × 7 in) (w/h/d)

Mounting dimensions: Approx. 182 × 53 × 160 mm

(7 1/4 × 2 1/8 × 6 2/16 in) (w/h/d)

Mass: Approx. 1.2 kg (2 lb 11 oz)

Supplied accessories:

Remote commander: RM-X231
Microphone
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

Bluetooth® AUDIO SYSTEM

9-893-551-02

2012L33-1

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Sony Corporation

Published by Sony Techno Create Corporation

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Perchlorate Material – special handling may apply; See www.dtsc.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate



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www.siriusxm.com

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- US and Canadian models:

CAUTION

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

CAUTION

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

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

MEX-BT4100E/BT4100P/BT4100U/BT4150U

SECTION 1

SERVICING NOTES

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

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

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

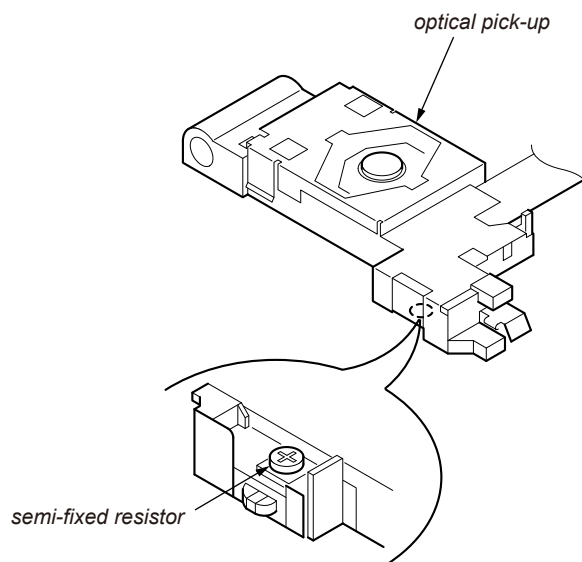
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

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

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



UNLEADED SOLDER

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

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

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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 [SHUF 4] → [MIC/ZAP 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
2. In the state in which the system controller version is displayed on the liquid crystal display (refer to following figure), enter the destination setting mode by pressing the buttons in order of the [SEEK+ >>>] → [SEEK- <<<] → [PUSH ENTER/MENU/APP].
(Displayed characters/values in the following figure are example)

System controller version

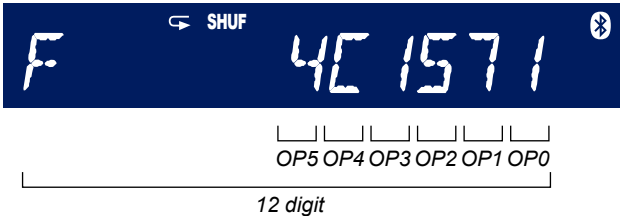


3. Input the alphanumeric character of 12 digits of "F XXXXXX" displayed on the liquid crystal display, and execute the destination setting.
Note: Refer to following "1-3. Entering the Destination Code" for operation method.
4. The resetting operation is executed by pressing the [OFF SOURCE] button for 1 second after the setting ends, and the unit returns to the normal condition.

1-2. Display in Destination Setting Mode

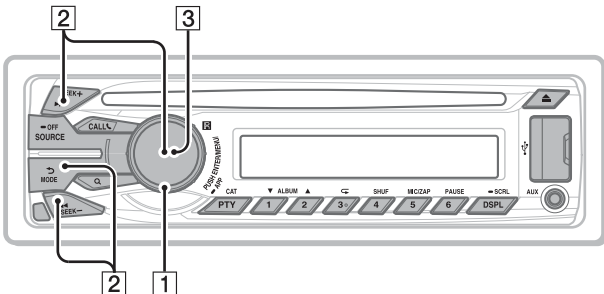
(Displayed characters/values in the following figure are example)

Destination code



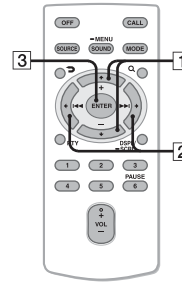
1-3. Entering the Destination Code

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/MENU/APP] or [SEEK+ >>>] button.
The digit returns by pressing the [MODE] or [SEEK- <<<] button.
3. The setting is completed by pressing the [PUSH ENTER/MENU/APP] 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-BT4100E	Russian	C	C	1	5	8	7
MEX-BT4100P	US, Canadian	5	E	1	5	6	2
MEX-BT4100U	AEP, UK	4	C	1	5	7	1
MEX-BT4150U	E, Mexican	4	C	1	D	9	0
MEX-BT4150U	Saudi Arabia	4	C	1	D	9	4

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:

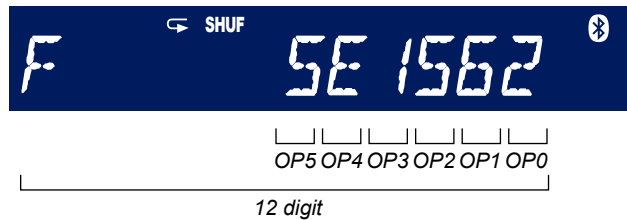
1. In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [SHUF 4] → [MIC/ZAP 5] → [PAUSE 6] (press only the [PAUSE 6] button for two seconds).
2. In the state in which the system controller version is displayed on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

System controller version



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

Destination code



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

TEST DISCS

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

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

NOTE 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 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 the SENSOR board is defective, exchange the MECHANICAL BLOCK ASSY.

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 complete BT board or complete MAIN board (including BT board) are replaced, it is necessary to initialize this unit. Refer to the following, initialize this unit.

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

Initializing Bluetooth Settings

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

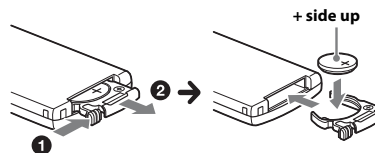
- 1** Press and hold **(SOURCE/OFF)** for 1 second to turn off the power.
- 2** Press **(MENU)**, rotate the control dial until "BT" appears, then press it.
The menu list appears.
- 3** Rotate the control dial to select "BT INIT," then press it.
The confirmation appears.
- 4** Rotate the control dial to select "INIT-YES," then press it.
"INITIAL" flashes while initializing the Bluetooth settings; "COMPLETE" appears when initializing has finished.
- 5** Press **(BACK)** to return to the previous display.

Note

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

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.

CLEANING THE CONNECTORS

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



Notes

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

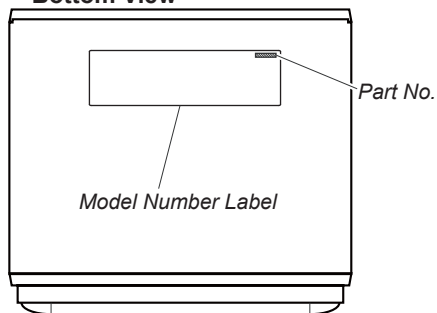
CANCELLING THE DEMO MODE

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

- 1** Press **(MENU)**, rotate the control dial until "DISPLAY" appears, then press it.
- 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)** to return to the previous display.
The display returns to normal reception/play mode.

MODEL IDENTIFICATION

– Bottom View –

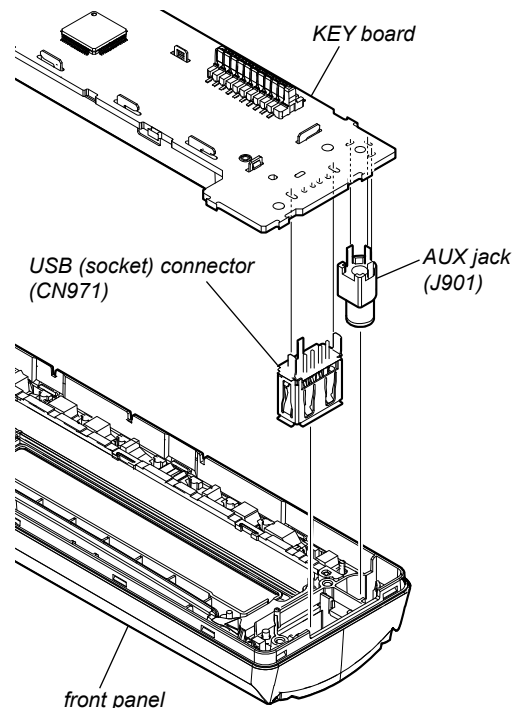


Part No.	Destination
4-436-200-0□	BT4100U: AEP and UK models
4-436-201-0□	BT4100P: US and Canadian models
4-436-202-0□	BT4100E: Russian model
4-436-203-0□	BT4150U: E model
4-436-204-0□	BT4150U: Mexican model
4-436-205-0□	BT4150U: Saudi Arabia model

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

To replace the USB connector and AUX jack requires alignment.

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



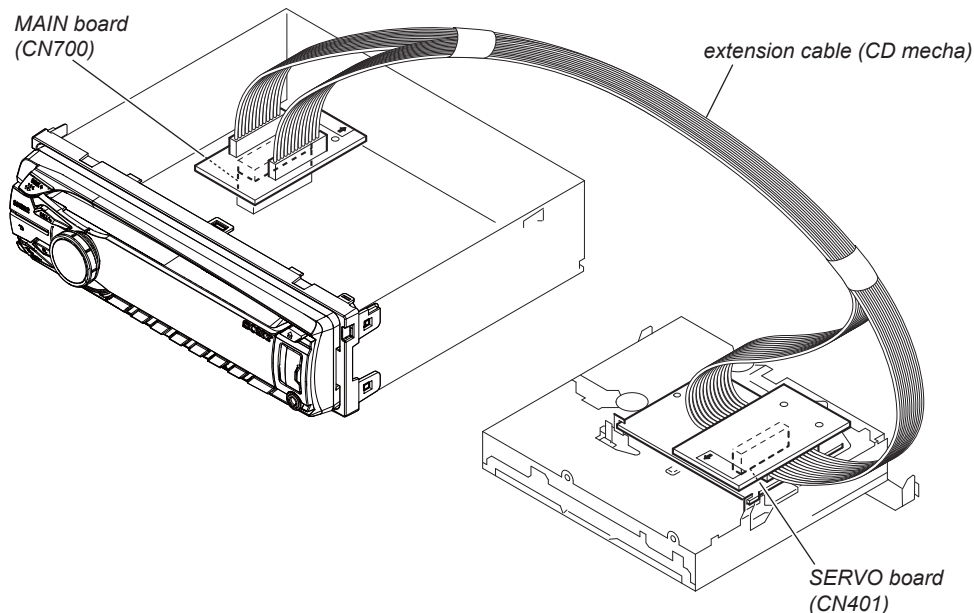
EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this unit, 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)



BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE

1. Required Equipment

- Set to be tested (MEX-BT4100E/BT4100P/BT4100U/BT4150U), external microphone of attachment
- Cellular phone (Recommended SEMC W880 or W910i, or select from connectable cellular phones list)
- Bluetooth audio devices (SONY NWZ-A826, or select from connectable cellular phones/audio devices list)
- Speaker connection (at least Front L/R ch)
- DC power supply (12 V)

2. Preparation

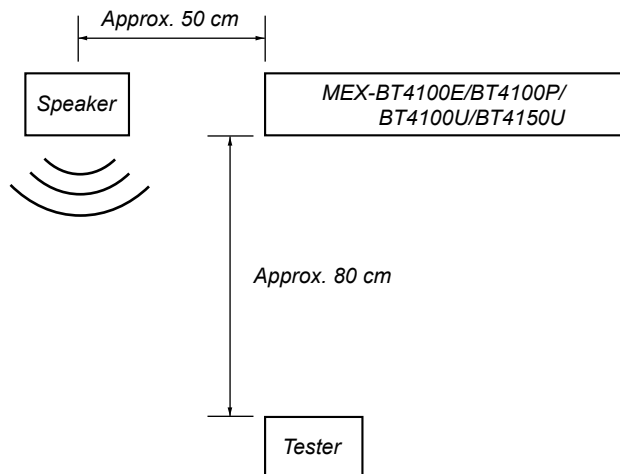
- Confirm the setting of the MEX-BT4100E/BT4100P/BT4100U/BT4150U, and note down it.
- Press the [CALL] button and rotate the control dial until “SET PAIRING” appears, then press it, confirm that the Bluetooth signal icon (📶) is flashing.
- Turn on the Bluetooth function of the cellular phone.

3. Test Environment

- No other Bluetooth device is making a communication in the periphery (within 20 m).
- No other MEX-BT4100E/BT4100P/BT4100U/BT4150U 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-BT4100E/BT4100P/BT4100U/BT4150U 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-BT4100E/BT4100P/BT4100U/BT4150U.
- The speaker’s voice will become loud naturally if the periphery is noisy, or become low if quiet (even though the speaker intends to talk on the same volume level).
- The speaker’s voice will become loud naturally if the other party’s voice is loud.

6. Bluetooth Phone (Hands Free) Function Check

Note: Depending on the connecting device, Signal-strength/Battery-remaining indications might not be displayed.

Or, depending on the connecting device, the levels of indications are shown incorrectly.

Even if you see no indications or wrong indications, they are not failures of MEX-BT4100E/BT4100P/BT4100U/BT4150U.

1. Search for this unit from the Bluetooth device (cellular phone), and confirm whether this unit (“Sony Automotive”) is displayed.
2. Search for the distance of this unit and the Bluetooth device (cellular phone) about 5 m apart. Confirm whether the Bluetooth device (or this unit) is displayed after it searches.
3. Do the pairing of the cellular phone and this unit (input of passkey).
4. Connect the cellular phone with this unit, and confirm the “HF” icon (📶) lights.
5. Confirm the connection continues even if the distance of the cellular phone and this unit is separated by about 5 m.
6. Set this unit besides the “BT PHONE” source, and call the cellular phone connected with this unit. Confirm the automatic change of this unit into “BT PHONE” source, and the change into the screen for incoming calls. Confirm the ring tone is heard from the front speaker.
7. Take a phone call (press the [CALL] button), and start a conversation. Confirm the other person voice is heard from the speaker. Speak toward an external microphone at the following condition, and confirm the other party hears its voice (An external microphone is connected). Compare the sound quality with a normal set. Confirm that there is no big difference.
8. Turn on ACC from off, and confirm whether this 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-BT4100E/BT4100P/BT4100U/BT4150U;

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-BT4100E/BT4100P/BT4100U/BT4150U.

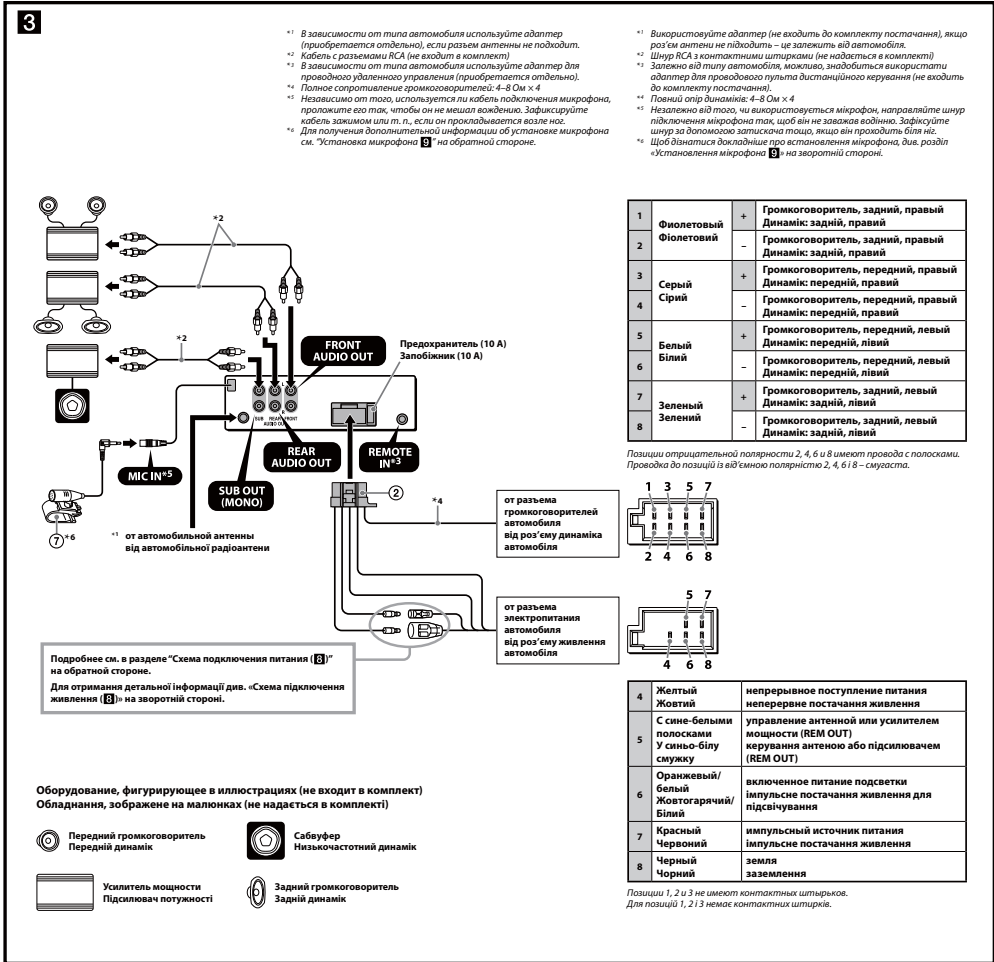
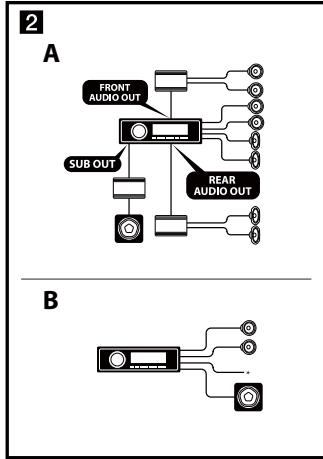
1. Connect the Bluetooth audio device (or cellular phone with Bluetooth audio function) with this unit, and confirm the “Audio Streaming” icon (📶) lights.
2. Playback Bluetooth audio. Confirm the sound is emitted from this unit when this unit is switched to “Bluetooth Audio” source.
3. Confirm whether Bluetooth audio can be controlled by operating this unit (the [SEEK+ ▶▶▶], [◀◀◀ SEEK-] and [PAUSE 6] buttons operation).

Note: Varies depending on the connected Bluetooth audio device.

8. What to Do after Checking

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

(MEX-BT4100E)



Русский

Внимание

Обязательно устанавливайте это устройство на приборной панели автомобиля, так как его задняя часть нагревается во время работы.

- Данный аппарат предназначен для подключения только к аккумулятору 12 В постоянного тока с отрицательным заземлением.
- Не допускайте попадания проводов под винты или между подвижными деталями (например, между направляющими сидений).
- Перед выполнением соединения выключите зажигание автомобиля во избежание короткого замыкания.
- Сначала подсоедините соединительный кабель питания (2) к аппарату и громкоговорителям, а затем к контактам внешнего источника питания.
- Подведите все провода заземления к одной точке заземления.
- В целях безопасности обязательно изолируйте все свободные неподсоединенные провода изоляционной лентой.

Примечания относительно провода питания (желтого)

- При подключении этого аппарата вместе с другими стереокомпонентами номинальное значение силы тока в контуре питания автомобиля должно превышать суммарное значение силы тока, указанное на предохранителях всех компонентов.
- Если номинальное значение силы тока в контуре питания автомобиля недостаточно высокое, подсоедините аппарат напрямую к аккумулятору.

Пример подсоединения (2)

Непосредственное соединение с сабвуфером (2-В)

Для получения подробных сведений о выполнении подключения см. прилагаемую инструкцию по эксплуатации.

- * Не подсоединяйте громкоговоритель к этому разъему.

Примечания

- Прежде чем подключать аппарат к усилителю, обязательно подсоедините провод заземления.
- Звуковой сигнал будет воспроизводиться только в том случае, если используется настроенный усилитель.

Схема подсоединения (3)

Предостережение

Если используется антенна с электрическим приводом без релейного блока, подсоединение этого аппарата посредством прилагаемого провода питания (2) может привести к повреждению антенны.

О проводах управления и питания

- При включении устройства через провод REM OUT (в сине-белую полосу) поступает постоянный ток напряжением +12 В.
- При использовании динамического усилителя мощности подключите провод REM OUT (в сине-белую полосу) или дополнительный провод питания (красный) к разъему AMP REMOTE IN.
- Если машина оснащена радиоантенной FM/AM/LW, встроеной в заднее или боковое стекло, подсоедините провод REM OUT (в сине-белую полосу) или дополнительный провод питания (красный) к разъему питания усилителя антенны. Для получения подробных сведений обратитесь к своему проводу.
- Антенна с электрическим приводом, не снабженная релейным блоком, с этим аппаратом использоваться не может.

Подсоединение для поддержки памяти

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

Примечания относительно подсоединения громкоговорителей

- Прежде чем подсоединять громкоговорители, выключите аппарат.
- Используйте громкоговорители с полным сопротивлением 4-8 Ом, обладающие способностью принимать достаточную мощность сигнала. В противном случае они могут быть повреждены.
- Не подсоединяйте контактные гнезда громкоговорителей к шести автомобилям и не соединяйте гнезда проводов громкоговорителя с гнездами лево.
- Не подсоединяйте провод заземления аппарата к отрицательному (-) контакту громкоговорителя.
- Не пытайтесь подсоединить громкоговорители параллельно.
- Подсоедините только пассивные громкоговорители. Подсоединение активных громкоговорителей (со встроенным усилителем) к гнездам для громкоговорителей может привести к повреждению аппарата.
- Во избежание ненормальной работы аппарата не используйте встроены в автомобиль провода громкоговорителей, если используется общий отрицательный провод (-) для правого и левого громкоговорителей.
- Не подсоединяйте друг к другу провода громкоговорителей аппарата.

Примечание относительно подсоединения

Если громкоговоритель и усилитель подсоединены неправильно, на дисплее отобразится надпись "FAILURE". В этом случае проверьте правильность подсоединения громкоговорителя и усилителя.

Українська

Увага!

Обов'язково встановлюйте цей пристрій на панелі приладів автомобіля, оскільки задня сторона пристрою нагрівається у процесі експлуатації.

- Цей пристрій розроблено лише для роботи із джерелом постійної напруги 12 В із заземленням від мінусного полюса.
- Запобігайте попаданню проводки під гвинти або між рухомих деталей (наприклад, поруччя сидіння).
- Перед створенням підключень вимкніть запалювання автомобіля, щоб запобігти короткому замиканню.
- Підключіть кабель живлення (2) до пристрою та динаміків перед його підключенням до додаткового роз'єму живлення.
- Підключіть всі заземлені кабелі до однієї точки заземлення.
- Переконайтеся в тому, що будь-які вільні не підключені кабелі ізолювано відповідною ізолюючою стрічкою для забезпечення безпеки.

Примітка щодо кабелю підключення живлення (жовтий)

- За підключення пристрою разом з іншими стереокомпонентами сила струму в контурі автомобіля має бути вищою суми значень сили струму, вказаної на плавких запобіжниках кожного компонента.
- Якщо сила струму в контурі автомобіля недостатньо висока, підключіть пристрій безпосередньо до акумулятора.

Приклад підключення (2)

Безпосереднє підключення сабвуфера (2-В)

Для отримання докладніших відомостей див. інструкцію з експлуатації, що входить до комплекту поставання.

- * Не підключайте динамік до цього роз'єму.

Примітка

- Перед підключенням підслухову переконатися, що підключено заземлений кабель.
- Сигнал співвідношення спрощає, лише якщо використовується вбудований підслухов.

Схема підключення (3)

Увага!

Якщо антена з електроприводом не має релейної стійки, підключення цього пристрою за допомогою кабелю живлення з контактом (2) може пошкодити антену.

Примітка щодо кабелю керування та кабелю постачання живлення

- Через провод REM OUT (у сине-білу смужку) подається постійний струм +12 В від місця заземлення пристрою.
- У разі використання підсилювача підсилює провод REM OUT (у сине-білу смужку) або додатковий струм живлення (червоний) до роз'єму AMP REMOTE IN.
- Якщо машину обладнано радіоантенною FM/AM/LW, вбудовану в заднє або бокове скло, підключіть провод REM OUT (у сине-білу смужку) або додатковий струм живлення (червоний) до роз'єму живлення антенного підсилювача. Для отримання докладніших відомостей зверніться до свого проводу.
- Антену з електроприводом без релейної стійки не можна використовувати з цим пристроєм.

Підключення запалювального системи

Якщо підключено жовтий кабель постачання живлення, живлення завжди постачатиметься до запалювального системи навіть за вимкненого запалювання.

Примітка щодо підключення динаміка

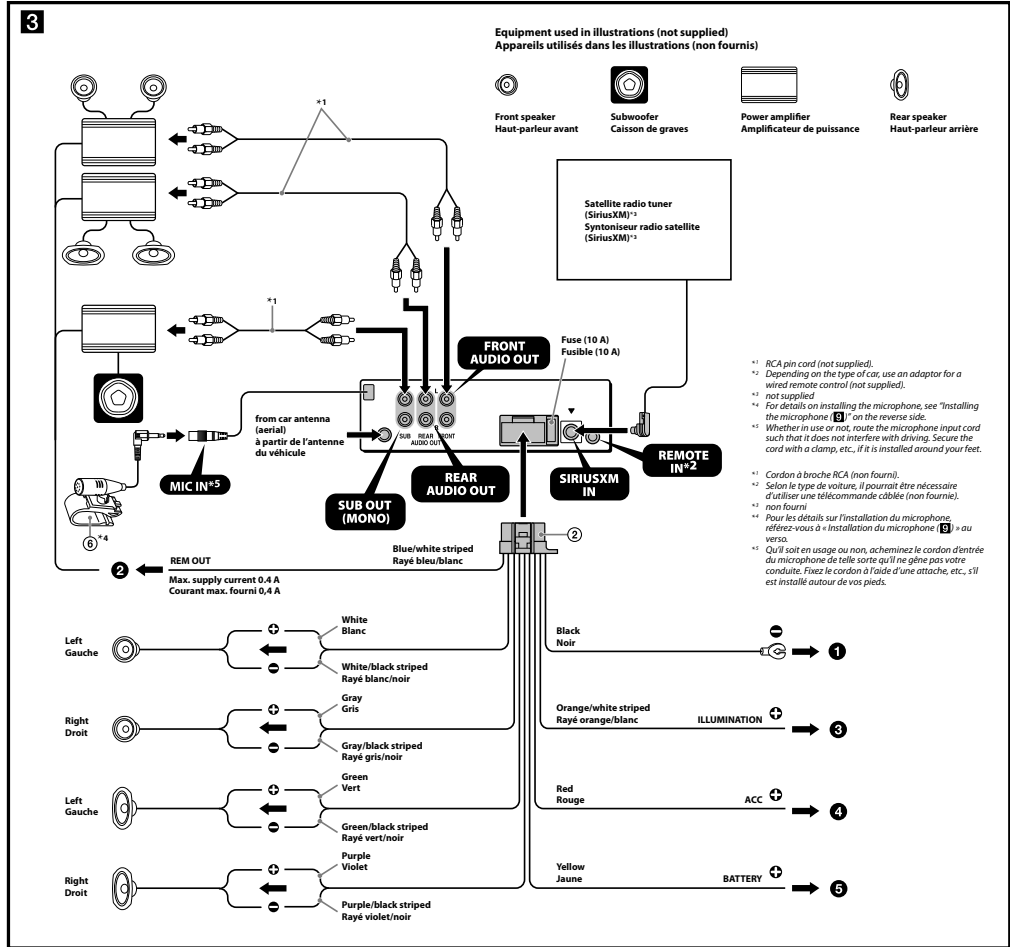
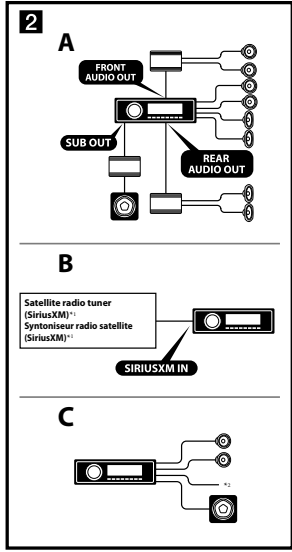
- Перед підключенням динаміків вимкніть пристрій.
- Використовуйте динамік з плавким опором від 4 до 8 Ом із відповідною припустимою відносною потужністю, щоб уникнути їх пошкодження.
- Не підключайте роз'єми динаміків до керування автомобіля не у вимкненому роз'ємі правого / лівого динаміка.
- Не підключайте заземлений кабель цього пристрою до від'ємного (-) роз'єму динаміка.
- Не намагайтеся підключити динаміки паралельно.
- Підключайте лише пасивні динаміки. Підключення активних динаміків (із вбудованим підсилювачем) до роз'ємів динаміків може пошкодити пристрій.
- Щоб уникнути несправної роботи пристрою, не використовуйте від'ємний кабель динаміка, встановлений в автомобіль, якщо пристрій використовує стійкий позитивний (-) кабель для правого та лівого динаміків.
- Не підключайте кабелі динаміків пристрою один до одного.

Примітка щодо підключення

Якщо динамік підключено не належним чином, на дисплеї відобразиться «FAILURE» (помилка). У такому випадку переконатися, що динамік і підслухов підключено належним чином.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

(MEX-BT4100P)



English

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)

Subwoofer Direct Connection (2-C)
For details on the setting for the connection, see the supplied Operating Instruction.

- *1 Not supplied (2-B).
 - *2 Do not connect a speaker in this connection (2-C).
- 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)

- To a metal surface of the car**
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**
 - Notes
 - If 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 and a power antenna (aerial). Connecting any other system may damage the unit.
- To a car's illumination signal**
This connection is only for amplifiers and a power antenna (aerial). Be sure to connect the black ground (earth) lead to a metal surface of the car first.
- 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."
- 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.

Français

Précautions

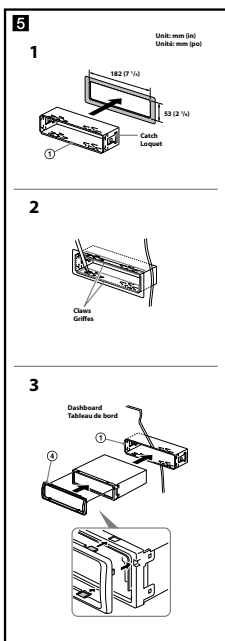
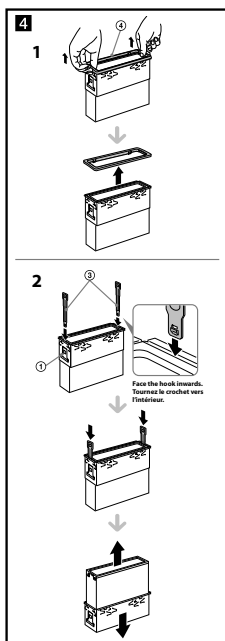
- Installez cet appareil sur le tableau de bord de la voiture, car l'arrière de l'appareil chauffe en cours d'utilisation.
- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
 - Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
 - Avant d'effectuer 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 raccorder 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)

- Raccordement direct d'un caisson de graves (2-C)**
Pour plus de détails sur le réglage pour le raccordement, reportez-vous au mode d'emploi fourni.
- *1 non fourni (2-B)
*2 Ne raccordez pas un haut-parleur avec cette connexion (2-C).
- Remarques**
- 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)

- À un point métallique de la voiture**
Brancher d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.
 - 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 et à une antenne électrique. Le branchement de tout autre système risque d'endommager l'appareil.
 - 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.
 - À la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
 - Remarques
 - Si l'il 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 ».
 - 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 ou chassis 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.



English

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 (4) 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 (4).
 1 Insert both release keys (3) together between the unit and the bracket (4) until they click.
 2 Pull down the bracket (4), then pull up the unit to separate.

Mounting example (5)

Installation in the dashboard

- Notes**
- Before installing, make sure that the catches on both sides of the bracket (4) are bent inward 2 mm (7/64 in). If the catches are straight or bent outward, the unit will be installed loosely and may vibrate.
 - Use the release keys (3) to separate the unit from the bracket (4).
 - Make sure that the catches on the protection collar (4) are properly engaged in the slots of the unit (4).

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 covers (3).

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 toward you.

- 7-B To attach**
Engage part (3) of the front panel with part (3) 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 (8)

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 connections 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.

Installing the microphone (9)

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

- Caution**
- 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 airbag or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

9-A Installing on the sun visor

- 1 Install the microphone (9) on the clip (10).
- 2 Install the clip (10) 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.

9-B Installing on the dashboard

- 1 Install the microphone (9) on the clip (10), then place the cord along the groove of the clip (10).
- 2 Attach the clip (10) to the dashboard with the double-sided tape (11).
- 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 (11), clean the surface of the dashboard with a dry cloth.
 - Adjust the microphone angle to the proper position.
 - The microphone (9) will be installed without using the clip (10).
 - In this case, directly attach the microphone to the dashboard with the double-sided tape (11). Keep the unused clip (10) for future use.

Français

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 des poussières, 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
Régler 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 (4) et le support (4) de l'appareil.

- 1 Retirez le tour de protection (4). Pincez les deux bords du tour de protection (4), puis sortez-le.
- 2 Retirez le support (4).
 1 Insérez les clés de déblocage (3) en même temps entre l'appareil et le support (4) jusqu'au clic.
 2 Tirez le support (4) 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**
- Avant l'installation, assurez-vous que les crochets des deux côtés du support (4) sont bien pliés de 2 mm (7/64 po) vers l'intérieur. Si les bords du support (4) sont droits ou pliés vers l'extérieur, l'appareil ne peut pas être fixé solidement et peut se détacher (11).
 - Utilisez les clés de déblocage (3) pour séparer l'appareil du support (4).
 - Assurez-vous que les 4 crochets situés sur le tour de protection (4) sont correctement engagés dans les fentes de l'appareil (4).

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 (3) 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 (3) de la façade dans la partie (3) de l'appareil, comme illustré, puis appuyez sur le côté gauche jusqu'à déclick indiquant que la façade est en position.

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'éclairage disparaisse à chaque fois que vous cochez le contact.

Remplacement du fusible (8)

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.

Installation du microphone (9)

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 ceintures 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.

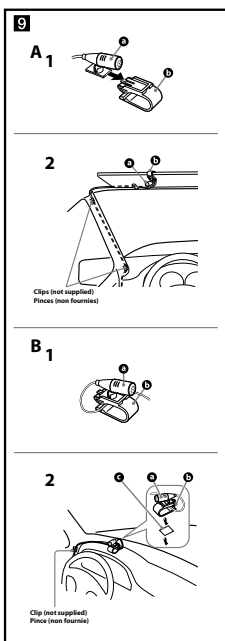
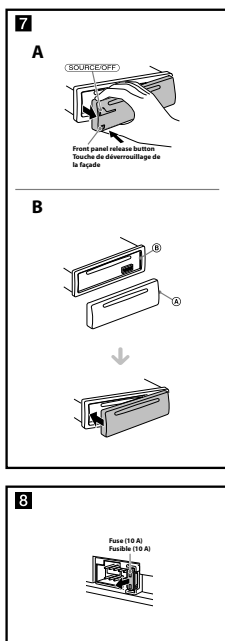
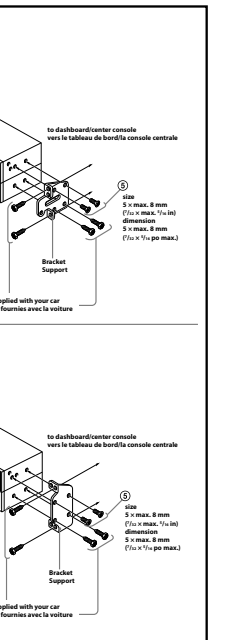
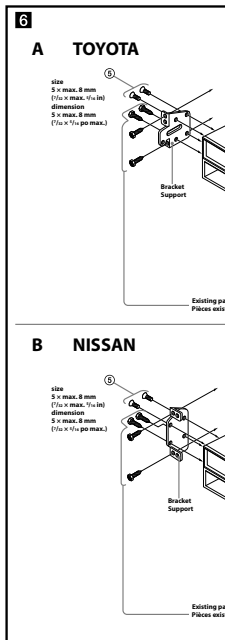
9-A Installation sur le pare-soleil

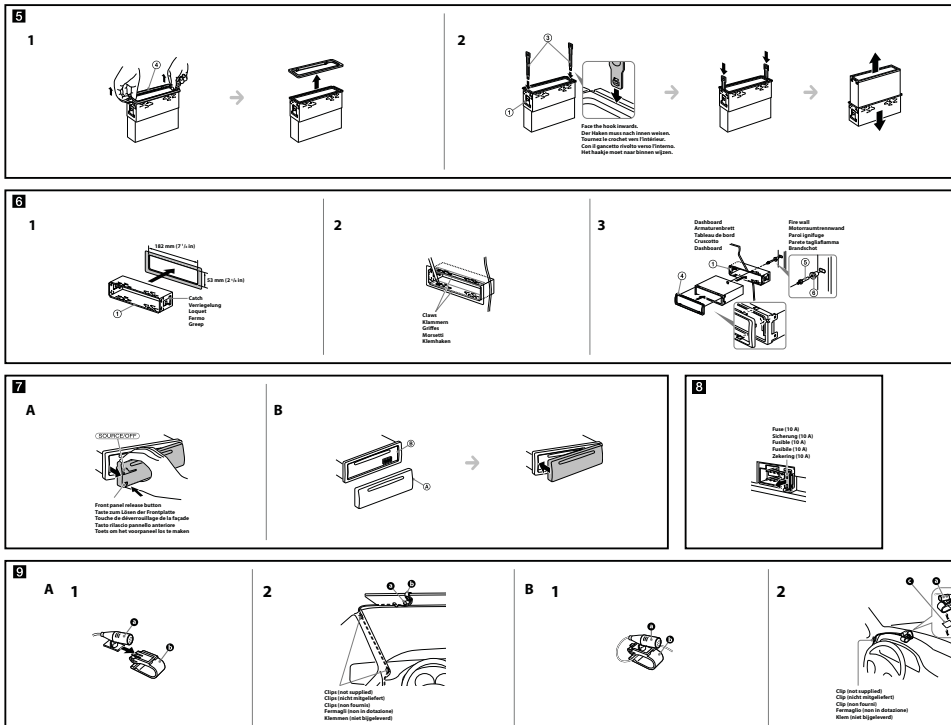
- 1 Installez le microphone (9) sur la pince (10).
- 2 Installez la pince (10) sur le pare-soleil.
- 3 Installez les pinces (non fournies) et réglez la longueur et la position du cordon de façon à ne pas encombrer votre conduite.

9-B Installation sur le tableau de bord

- 1 Installez le microphone (9) sur la pince (10), puis placez le cordon le long de la rainure de la pince (10).
- 2 Fixez la pince (10) au tableau de bord à l'aide d'un ruban adhésif à double face (11).
- 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 (11), nettoyez la surface du tableau de bord avec un tissu sec.
 - Réglez l'angle du microphone à la bonne position.
 - Le microphone (9) sera installé sans utiliser la pince (10).
 - Le cas échéant, collez directement le microphone au tableau de bord à l'aide d'un ruban adhésif à double face (11). Conservez la pince inutilisée (10) pour utilisation ultérieure.





English

Precautions

- Check the installation location carefully so that the unit will not interfere with normal driving operation.
- Avoid installing the unit in an area subject to dust, dirt, excessive vibration, or high temperature, such as in a direct sunlight or near heater duct.
- Use only the supplied mounting hardware for a safe and secure installation.

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the optional Operating Instructions.

The unit will not self-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, power will be kept on and the battery will be discharged. The display disappears each time you turn the ignition off.

Deutsch

Sicherheitshinweise

- Wählen Sie den Einbaustand sorgfältig so aus, dass das Gerät beim Fahren nicht hindert.
- Vermeiden Sie das Gerät an Orten, an denen hohe Temperaturen (direkte Sonneneinstrahlung, kaltes Wetter) oder Vibrationen auftreten können. Vermeiden Sie das Einbauen in Bereiche mit Staub, Schmutz, Schmutz, Schmutz oder hoher Temperatur, wie zum Beispiel in der Nähe von Heizungsöffnungen.
- Verwenden Sie nur die mitgelieferten Montagehardware.

Warnhinweis, wenn die Zündung Ihres Fahrzeuges nicht über eine Zündschlüsselposition (ACC) verfügt

Aktivieren Sie unbedingt die Abschaltfunktion. Näheres dazu finden Sie in der optionalen Bedienungsanleitung. Nach dem Ausschalten wird das Gerät dazu neigen, die vorvorgewählte Zeit automatisch vollständig abzuschalten, so dass die Batterie nicht entladen wird.

Wenn Sie die Abschaltfunktion nicht aktivieren, müssen Sie die Abschaltfunktion vor dem Zündungsschließen der Taste SONY-Hörgerät gedrückt halten, bis die Anzeige abgeschaltet wird.

Précautions

- Choisir soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du véhicule.
- Éviter d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, aux vibrations violentes ou à des températures élevées, comme en plein soleil ou à proximité d'un conduit de chauffage.
- Utiliser uniquement le matériel fourni pour assurer une installation sûre.

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

Veuillez à régler la fonction de mise hors tension automatique. Pour obtenir davantage d'informations, reportez-vous au mode d'emploi facultatif.

Après l'arrêt de votre véhicule, l'appareil s'éteint automatiquement après un certain temps. Si vous ne réglez pas la fonction de mise hors tension automatique, l'appareil ne s'éteint pas et la batterie sera déchargée.

Si vous ne réglez pas la fonction de mise hors tension automatique, vous devez appuyer sur la touche "SOURCE" et maintenir la touche jusqu'à ce que l'affichage disparaisse à chaque fois que vous quittez le véhicule.

Mounting angle adjustment

Adjust the mounting angle to less than 45°.

Fuse replacement

When replacing the fuse, be sure to use one matching the original rating stated on the original fuse. If the fuse is blown, 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.

Hinweis zum Montagewinkel

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

Austauschen der Sicherung

Wenn Sie eine Sicherung austauschen, achten Sie darauf, eine Ersatzsicherung mit dem gleichen Amperere Wert wie die Originalsicherung zu verwenden. Wenn Sie die Sicherung austauschen, überprüfen Sie den Stromkreislauf und tauschen die Sicherung aus. Wenn die neue Sicherung wieder ausfällt, kann es eine interne Fehlfunktion vorliegen. Wenden Sie sich in einem solchen Fall an Ihren Sony-Händler.

Réglage de l'angle de montage

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

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'installation et remplacez-le. Si le nouveau fusible saute également, il est possible que l'appareil ait une défectuosité. Dans ce cas, consultez votre revendeur Sony le plus proche.

Removing the protection collar and the bracket

Before installing the unit, remove the protection collar (C) and the bracket (D) from the unit.

- 1 Push both ends of the protection collar (C) then pull it out.
- 2 Remove the bracket (D) from the unit.

Installing the microphone

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

Caution:

- Keep the microphone away from extremely high temperatures and humidity.
- It is extremely dangerous if the cord becomes wound around the steering column or gearshift. Be sure to keep it and other parts from obstructing your driving.
- If tangled in any other place, always be prepared to stop the car at once before installation.

Ablehnen der Schutzumrandung und der Halterung

Nehmen Sie vor dem Installieren des Geräts die Schutzumrandung (C) und die Halterung (D) vom Gerät ab.

- 1 Drücken Sie die beiden Enden der Schutzumrandung (C) zusammen und ziehen Sie sie heraus.
- 2 Entfernen Sie die Halterung (D) vom Gerät.

Installation des Mikrofons

Das mit dem Freisprecher über den Lautsprecher hinaus, müssen Sie das Mikrophon (mitgeliefert) installieren.

Sicherheitshinweise:

- Halten Sie das Mikrophon von extrem hohen Temperaturen und Feuchtigkeit fern.
- Es ist äußerst gefährlich, wenn das Kabel um die Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.
- Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.
- Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Retrait du tour de protection (C) et du support (D) de l'appareil

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Installation du microphone

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Mounting example

Installation in the dashboard

Before installing, make sure that the cable on both sides of the bracket (D) does not touch the car's body or other parts. The unit will self-completely and automatically in the set time after the unit is turned off, which prevents battery drain.

• Push the unit into the dashboard until it is flush with the dashboard surface.

• Push the unit into the dashboard until it is flush with the dashboard surface.

How to detach and attach the front panel

A To detach

Insert the screwdriver (E) into the slot and push the front panel (F) forward until it is loose.

B To attach

Push the front panel (F) into the slot until it is seated, and push the left side panel (G) into the slot.

Montagebeispiel

Installation im Armaturenbrett

Bevor Sie das Gerät einbauen, stellen Sie sicher, dass die Kabel auf beiden Seiten der Halterung (D) nicht mit dem Karosserieteil oder anderen Teilen in Berührung kommen. Das Gerät wird sich selbstständig und automatisch in der festgelegten Zeit nach dem Ausschalten des Motors abschalten, um einen Batterieentladung zu vermeiden.

• Drücken Sie das Gerät in das Armaturenbrett, bis es mit der Armaturenbrett-Oberfläche fluchtet.

• Drücken Sie das Gerät in das Armaturenbrett, bis es mit der Armaturenbrett-Oberfläche fluchtet.

Abnehmen und Anbringen der Frontplatte

A Abnehmen

Stecken Sie das Schraubenzieher (E) in die Nut und drücken Sie die Frontplatte (F) nach vorne, bis sie losgelöst ist.

B Anbringen

Drücken Sie die Frontplatte (F) in den Nut, bis sie richtig sitzt, und drücken Sie die linke Seitenplatte (G) in den Nut.

Exemple de montage

Installation dans le tableau de bord

Avant d'installer l'appareil, assurez-vous que les câbles des deux côtés de la bride (D) ne touchent pas le corps de la voiture ou d'autres parties. L'appareil s'éteint automatiquement après un certain temps. Si vous ne réglez pas la fonction de mise hors tension automatique, l'appareil ne s'éteint pas et la batterie sera déchargée.

• Poussez l'appareil dans le tableau de bord jusqu'à ce qu'il soit à niveau avec la surface du tableau de bord.

• Poussez l'appareil dans le tableau de bord jusqu'à ce qu'il soit à niveau avec la surface du tableau de bord.

Retrait du tour de protection (C) et du support (D) de l'appareil

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Regolazione dell'angolo di montaggio

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

Avvertenza relativa all'installazione su un cavo sprovvista della posizione ACC (accessori non in dotazione)

Accertarsi di impostare la funzione di spegnimento automatico. Per ulteriori informazioni, fare riferimento alle istruzioni per l'uso in dotazione.

L'appareil s'éteint automatiquement et complètement après un certain temps. Si vous ne réglez pas la fonction de mise hors tension automatique, l'appareil ne s'éteint pas et la batterie sera déchargée.

Si vous ne réglez pas la fonction de mise hors tension automatique, vous devez appuyer sur la touche "SOURCE" et maintenir la touche jusqu'à ce que l'affichage disparaisse à chaque fois que vous quittez le véhicule.

Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het apparaat de normale rijbeweging niet hindert.
- Vermijd het apparaat op plaatsen waar het blootgesteld wordt aan hoge temperaturen, te veel stof, vuil, schmutz, schmutz of hoge temperatuur, zoals in de buurt van een verwarmingskanaal.
- Gebruik alleen de meegeleverde montagehardware.

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

Zorg ervoor dat u de functie voor automatisch uitschakelen inschakelt. Meer informatie vindt u in de optionele handleiding. Na het uitschakelen van de motor wordt het apparaat automatisch na een bepaalde tijd volledig uitgeschakeld, zodat de accu niet wordt ontladen.

Als u de functie voor automatisch uitschakelen niet inschakelt, wordt het apparaat niet uitgeschakeld en kan de accu ontladen worden.

Zekering vervangen

Vervang een afgebrande afzeker met een exemplaar van dezelfde specificatie. Het is uiterst gevaarlijk als het kabel om de Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.

Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Remplacement sur le pare-brise

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Rimozione della staffa e della cornice protettiva

Prima di installare l'apparecchio, rimuovere la cornice protettiva (C) e la staffa (D) dell'apparecchio.

- 1 Rimuovere la cornice protettiva (C) dai due lati.
- 2 Rimuovere la staffa (D) dall'apparecchio.

Regolazione dell'angolo di montaggio

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

De beschermde rand en de beugel verwijderen

Vooraf de beschermde rand (C) en de beugel (D) verwijderen van het apparaat.

- 1 Verwijder de beschermde rand (C) van de twee zijden.
- 2 Verwijder de beugel (D) van het apparaat.

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

Zorg ervoor dat u de functie voor automatisch uitschakelen inschakelt. Meer informatie vindt u in de optionele handleiding. Na het uitschakelen van de motor wordt het apparaat automatisch na een bepaalde tijd volledig uitgeschakeld, zodat de accu niet wordt ontladen.

Als u de functie voor automatisch uitschakelen niet inschakelt, wordt het apparaat niet uitgeschakeld en kan de accu ontladen worden.

Zekering vervangen

Vervang een afgebrande afzeker met een exemplaar van dezelfde specificatie. Het is uiterst gevaarlijk als het kabel om de Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.

Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Remplacement sur le pare-brise

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Regolazione dell'angolo di montaggio

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

Sostituzione del fusibile

Quando si sostituisce il fusibile, assicurarsi di utilizzare un fusibile della stessa specificazione di quello originale. Se il fusibile si brucia, controllare il collegamento dell'installazione e sostituirlo. Se il nuovo fusibile si brucia ancora, potrebbe esserci un malfunzionamento interno. In tal caso, rivolgersi al più vicino rivenditore Sony.

De beschermde rand en de beugel verwijderen

Vooraf de beschermde rand (C) en de beugel (D) verwijderen van het apparaat.

- 1 Verwijder de beschermde rand (C) van de twee zijden.
- 2 Verwijder de beugel (D) van het apparaat.

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

Zorg ervoor dat u de functie voor automatisch uitschakelen inschakelt. Meer informatie vindt u in de optionele handleiding. Na het uitschakelen van de motor wordt het apparaat automatisch na een bepaalde tijd volledig uitgeschakeld, zodat de accu niet wordt ontladen.

Als u de functie voor automatisch uitschakelen niet inschakelt, wordt het apparaat niet uitgeschakeld en kan de accu ontladen worden.

Zekering vervangen

Vervang een afgebrande afzeker met een exemplaar van dezelfde specificatie. Het is uiterst gevaarlijk als het kabel om de Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.

Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Remplacement sur le pare-brise

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Regolazione dell'angolo di montaggio

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

Sostituzione del fusibile

Quando si sostituisce il fusibile, assicurarsi di utilizzare un fusibile della stessa specificazione di quello originale. Se il fusibile si brucia, controllare il collegamento dell'installazione e sostituirlo. Se il nuovo fusibile si brucia ancora, potrebbe esserci un malfunzionamento interno. In tal caso, rivolgersi al più vicino rivenditore Sony.

De beschermde rand en de beugel verwijderen

Vooraf de beschermde rand (C) en de beugel (D) verwijderen van het apparaat.

- 1 Verwijder de beschermde rand (C) van de twee zijden.
- 2 Verwijder de beugel (D) van het apparaat.

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

Zorg ervoor dat u de functie voor automatisch uitschakelen inschakelt. Meer informatie vindt u in de optionele handleiding. Na het uitschakelen van de motor wordt het apparaat automatisch na een bepaalde tijd volledig uitgeschakeld, zodat de accu niet wordt ontladen.

Als u de functie voor automatisch uitschakelen niet inschakelt, wordt het apparaat niet uitgeschakeld en kan de accu ontladen worden.

Zekering vervangen

Vervang een afgebrande afzeker met een exemplaar van dezelfde specificatie. Het is uiterst gevaarlijk als het kabel om de Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.

Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Remplacement sur le pare-brise

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
- 2 Retirez le support (D).

Regolazione dell'angolo di montaggio

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

Sostituzione del fusibile

Quando si sostituisce il fusibile, assicurarsi di utilizzare un fusibile della stessa specificazione di quello originale. Se il fusibile si brucia, controllare il collegamento dell'installazione e sostituirlo. Se il nuovo fusibile si brucia ancora, potrebbe esserci un malfunzionamento interno. In tal caso, rivolgersi al più vicino rivenditore Sony.

De beschermde rand en de beugel verwijderen

Vooraf de beschermde rand (C) en de beugel (D) verwijderen van het apparaat.

- 1 Verwijder de beschermde rand (C) van de twee zijden.
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Waarschuwing als het contactslot van de auto geen ACC-positie heeft

Zorg ervoor dat u de functie voor automatisch uitschakelen inschakelt. Meer informatie vindt u in de optionele handleiding. Na het uitschakelen van de motor wordt het apparaat automatisch na een bepaalde tijd volledig uitgeschakeld, zodat de accu niet wordt ontladen.

Als u de functie voor automatisch uitschakelen niet inschakelt, wordt het apparaat niet uitgeschakeld en kan de accu ontladen worden.

Zekering vervangen

Vervang een afgebrande afzeker met een exemplaar van dezelfde specificatie. Het is uiterst gevaarlijk als het kabel om de Lenksäule oder den Schalthebel gewickelt ist. Achten Sie darauf, das Kabel nicht um andere Teile herum zu wickeln.

Wenn das Kabel um andere Teile herum gewickelt ist, kann es zu einer Verengung des Kabels führen, was zu einer Blockade des Kabels führen kann.

Remplacement sur le pare-brise

Avant d'installer l'appareil, retirez le tour de protection (C) et le support (D) de l'appareil.

- 1 Retirez le tour de protection (C).
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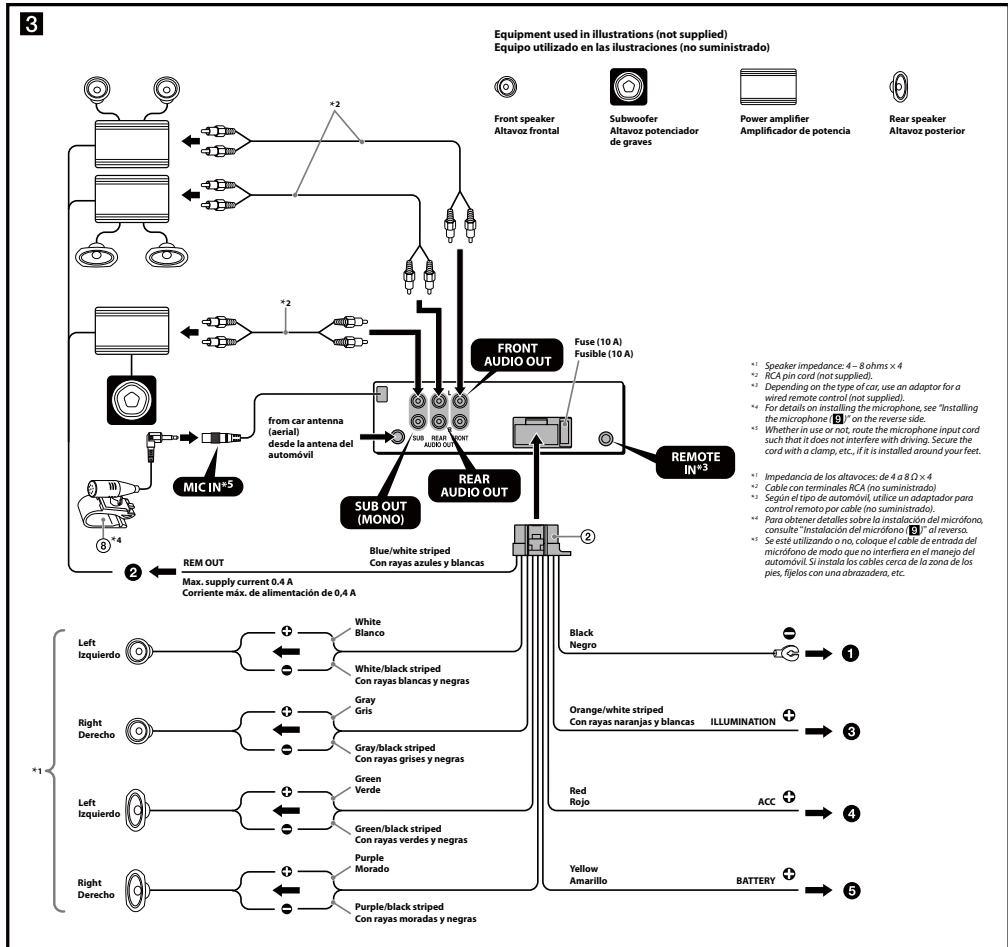
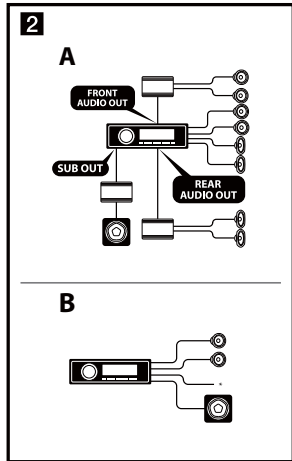
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Sostituzione del fusibile

Quando si sostituisce il fusibile, assicurarsi di utilizzare un fusibile della stessa specificazione di quello originale. Se il

(MEX-BT4150U: E, Mexican models)



- 1 Speaker impedance: 4 - 8 ohms x 4
- 2 RCA pin cord (not supplied).
- 3 Depending on the type of car, use an adaptor for a wired remote control (not supplied).
- 4 For details on installing the microphone, see "Installing the microphone" (3) on the reverse side.
- 5 Whether in use or not, make 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 x 4
- 2 Cable con terminales RCA (no suministrado).
- 3 Según el tipo de automóvil, utilice un adaptador para control remoto por cable (no suministrado).
- 4 Para obtener detalles sobre la instalación del micrófono, consulte "Instalación del micrófono" (3) al reverso.
- 5 Se esté utilizando o no, coloque el cable de entrada del micrófono de modo que no interfiera en el manejo del automóvil. Si instaló los cables cerca de la zona de los pies, fíjelos con una abrazadera, etc.

English

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)

Subwoofer Direct Connection (2-B)

For details on the setting for the connection, see the supplied Operating Instruction.

- Do not connect a speaker in this connection.

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)

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

- It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
- 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 and a power antenna (aerial). Connecting any other system may damage the unit.

3 To a car's illumination signal

Be sure to connect the black ground (earth) lead to a metal surface of the car first.

4 To the +12 V power terminal which is energized in the accessory position of the ignition switch

- 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".

5 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.

Español

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)

Conexión directa de altavoz de subgraves (2-B)

Para obtener más información sobre cómo configurar la conexión, consulte el Manual de instrucciones suministrado.

- No conecte un altavoz a esta conexión.

Notes

- 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 no suministrado.

Diagrama de conexión (3)

1 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.

2 Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena

- 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 y una antena motorizada. La conexión de cualquier otro sistema puede dañar la unidad.

3 A una señal de iluminación del automóvil

Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

4 Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido

- 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.

5 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 (rayado azul y blanco) suministra cc +12 V al encendido la unidad.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable REM OUT (rayado 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 relés.

Conexión para protección de la memoria

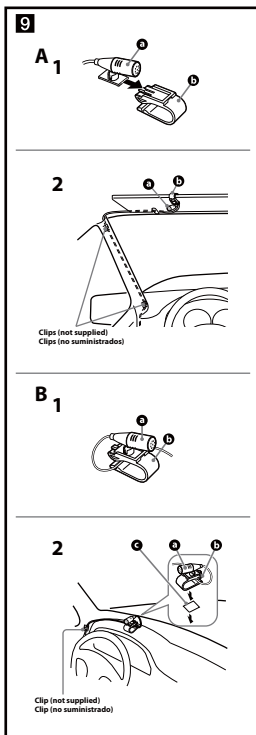
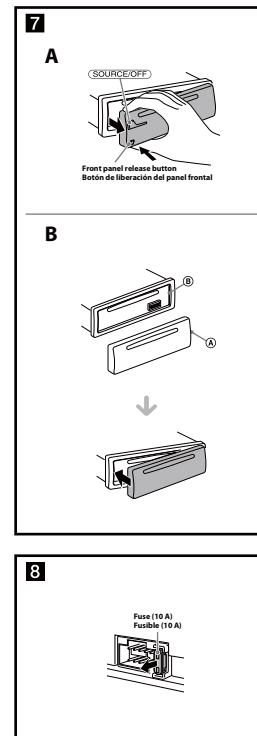
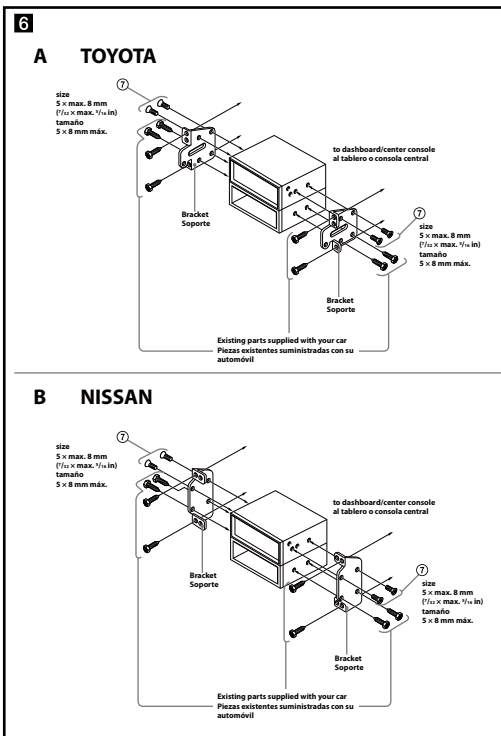
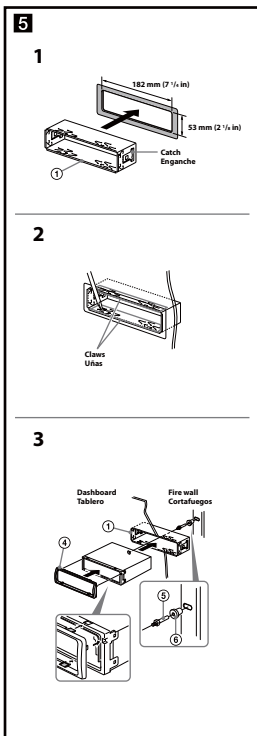
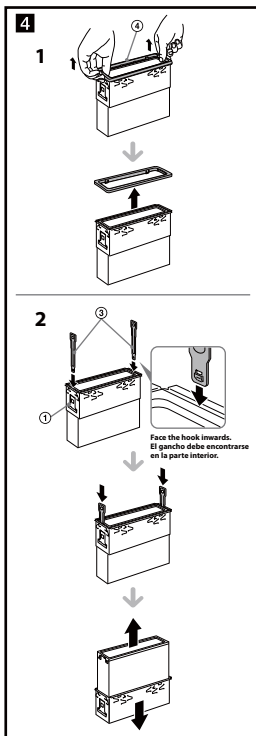
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

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.



English

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 (1) and the bracket (2) from the unit.

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

Mounting example (5)

Installation in the dashboard

Notes

- Before installing, make sure that the catches on both sides of the bracket (1) are bent inward 2 mm (1/8 in). If the catches are straight or bent outward, the unit will not be inserted securely and may spring out (1).
- Insert these claws outward for a tight fit, if necessary (2).
- Make sure that the 4 catches on the protection collar (1) are properly engaged in the slots of the unit (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 (A) of the front panel with part (B) 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 (8)

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

Installing the microphone (9)

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 airbag or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

3-A Installing on the sun visor

- 1 Install the microphone (9) on the clip (10).
- 2 Install the clip (10) 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.

3-B Installing on the dashboard

- 1 Install the microphone (9) on the clip (10), then place the cord along the groove of the clip (10).
- 2 Attach the clip (10) to the dashboard with the double-sided tape (11).
- 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 (11), clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.
- The microphone (9) is to be installed without using the clip (10). In this case, directly attach the microphone to the dashboard with the double-sided tape (11). Keep the unused clip (10) for future use.

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.

Español

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 expuesta 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 (1) y el soporte (2) de la misma.

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

Ejemplo de montaje (5)

Instalación en el tablero

- Notes**
- Antes de instalar la unidad, compruebe que los enganches de ambos lados del soporte (2) estén doblados hacia adentro 2 mm. Si no lo están o están doblados hacia afuera, la unidad no se instalará correctamente y puede salir (1).
 - Si es necesario, doble las uñas hacia fuera para que encaje firmemente (2).
 - Compruebe que los 4 enganches del marco de protección (1) estén bien fijados en las ranuras de la unidad (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 fallos 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 extraer el panel frontal, asegúrese de mantener presionado (SOURCE/OFF). Presione el botón de liberación del panel frontal y extraiga el panel frontal hasta que se deslice.

7-B Para instalarlo

Coloque la parte (A) del panel frontal en la parte (B) 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 (8)

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.

Instalación del micrófono (9)

Para capturar la voz durante llamadas con manos libres, debe instalar el micrófono (suministrado).

- Precauciones**
- Mantenga el micrófono alejado de lugares con humedad y temperaturas muy altas.
 - Que el cable se enrolle alrededor del volante o de la palanca de cambios es extremadamente peligroso.
 - Asegúrese de impedir que el cable y otros componentes obstruyan la conducción.
 - Si el vehículo dispone de airbag u otros dispositivos de amortiguación de impactos, póngase en contacto con el establecimiento donde ha adquirido esta unidad o con el concesionario de automóviles antes de llevar a cabo la instalación.

3-A Instalación en la visera

- 1 Instale el micrófono (9) en el clip (10).
- 2 Instale el clip (10) en la visera.
- 3 Instale los clips (no suministrados) y ajuste la longitud y la posición del cable de modo que no obstruya la conducción.

3-B Instalación en el salpicadero

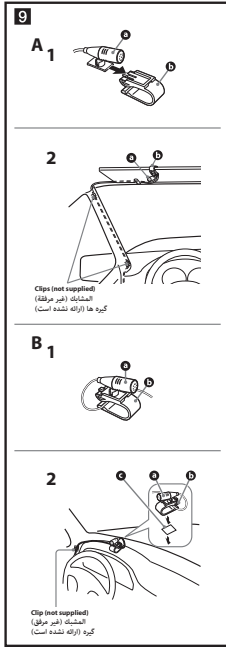
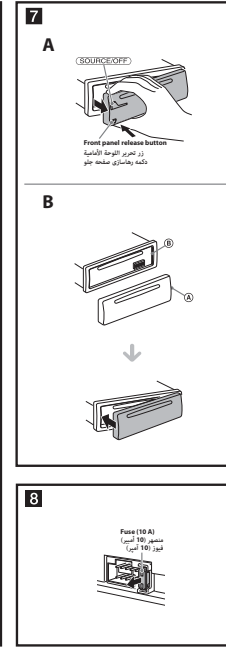
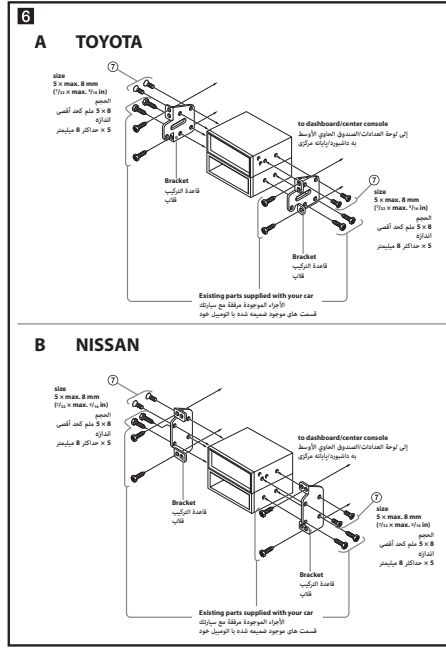
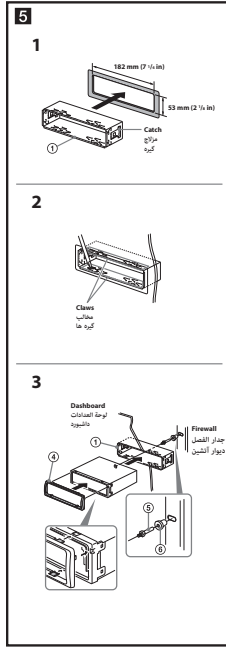
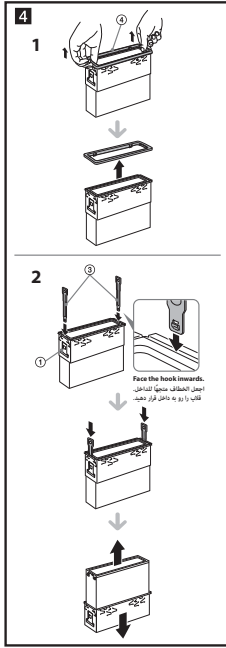
- 1 Instale el micrófono (9) en el clip (10), y, a continuación, coloque el cable en la ranura del clip (10).
- 2 Enganche el clip (10) en el salpicadero con la cinta adhesiva de dos caras (11).
- 3 Instale un clip (no suministrado) y ajuste la longitud y la posición del cable de modo que no obstruya la conducción.

Nota

- Antes de colocar la cinta adhesiva de doble cara (11), limpie la superficie del tablero con un paño seco.
- Ajuste el ángulo del micrófono en la posición adecuada.
- El micrófono (9) se puede instalar sin el clip (10). En este caso, enganche directamente el micrófono al tablero con la cinta adhesiva de dos caras (11). Conserve el clip sin usar (10) por si lo necesita en el futuro.

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 auto o se cambian las conexiones, la configuración de la sintonización se borrará.



English

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 vibrations, 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 (4) from the unit.

- Remove the protection collar (4), then pull it out.
- Remove the bracket (4). Insert both release keys (4) together between the unit and the bracket (4) until they click. Pull down the bracket (4), then pull up the unit to separate.

Mounting example (5)

Installation in the dashboard

Notes

- Before installing, make sure that the catches on both sides of the bracket (4) are bent inward 2mm (7/16 in). If the catches are straight or bent outward, the unit will not be inserted properly. See the "Notes" section for details.
- Remove the dust cap from the power jack (4) before use.
- Make sure that the 4 screws on the protection collar (4) are properly engaged in the slots of the unit (4).

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.

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 (7) of the front panel with part (8) 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 appears each time you turn the ignition off.

Fuse replacement (8)

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 connections 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.

Installing the microphone (9)

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

Caution

- Keep the microphone away from extremely high temperatures and humidity.
- If it is extremely dry, 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.

9-A Installing on the sun visor

- Install the microphone (9) on the clip (9).
- Install the clip (9) on the sun visor.
- Attach the clip (9) to the dashboard with the double-sided tape (9).

9-B Installing on the dashboard

- Install the microphone (9) on the clip (9), then place the cord along the groove of the clip (9).
- Attach the clip (9) to the dashboard with the double-sided tape (9).
- 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 (9), clean the surface of the dashboard with a dry cloth.
- Adjust the microphone angle to the proper position.
- The microphone (9) is not suitable for use with the double-sided tape (9) in this case. Always attach the microphone to the dashboard with the double-sided tape (9). Keep the unused clip (9) for future use.

العربية

تحذيرات احتياطة

- اختر موقع التركيب بعناية بحيث لا تتداخل الوحدة مع عمليات القيادة العادية.
- تجنب تركيب الجهاز في أماكن معرضة للغبار أو الأوساخ أو الاحتكاك أو درجات الحرارة العالية. كما لا تكون تحت أشعة الشمس المباشرة أو بالقرب من مخرج الهواء.
- استخدم أداة التركيب المرفقة فقط وذلك لتحقيق السلامة والتركيب الآمن.

ضبط زاوية التركيب
ضبط زاوية الجهاز بزاوية أقل من 45 درجة.

إخراج طوق الحماية وقاعدة التركيب (4)

قبل تركيب الجهاز، قم بإخراج طوق الحماية (4) وقاعدة التركيب (4) من الجهاز.

- قم بإخراج طوق الحماية (4).
- أضد قاعدة طوق الحماية (4). أدخل مفتاحي الإفراج معاً بين الجهاز وقاعدة التركيب (4) إلى أن تسمع طققة. اضغط قاعدة التركيب (4) للأعلى، ثم اسحب الجهاز للأعلى لتنفصل.

مثال التركيب (5)

التركيب في لوحة العدادات

ملاحظات

- قبل التركيب، تأكد من أن البراميل الموجودة على جانبي قاعدته (4) منطوية بمقدار 2 مم (7/16 بوصة). إذا كانت البراميل مستقيمة أو منحنية للخارج، لن يتم إدخال الوحدة بشكل صحيح. انظر قسم "ملاحظات" للحصول على مزيد من التفاصيل.
- قم بإزالة الغطاء من فتحة المقبض (4) قبل استخدامه.
- تأكد من أن المسامير الأربعة الموجودة على طوق الحماية (4) متصلة بشكل صحيح مع الفتحات الموجودة على الوحدة (4).

تركيب الجهاز في سيارة يابانية (6)

قد لا تتمكن من تركيب هذا الجهاز في بعض السيارات اليابانية. في هذه الحالة، استشر وكيلك المحلي Sony.

ملاحظة
تأكد من طي حبل الهاتف باستخدام الطرف المرفق فقط.

كيفية فصل وتركيب اللوحة الأمامية (7)

قبل تركيب الجهاز، تأكد من فصل اللوحة الأمامية.

7-A لفصل

قبل فصل اللوحة الأمامية، تأكد من الضغط على (SOURCE/OFF). اضغط على زر تحرير اللوحة الأمامية واسحبها للخارج ببطء.

7-B للتركيب

ضع الجزء (7) من اللوحة الأمامية مع الجزء (8) من الوحدة على الوحدة، كما هو مبين في الشكل التوضيحي، ثم ادفع الجانب الأيسر في مكانه إلى أن تسمع طققة.

تحذير إذا كان نظام إشعال المحرك الخاص بسيارتك غير موضح بالكماليات ACC

تأكد من ضبط وظيفة إيقاف التشغيل التلقائي. راجع تعليمات التشغيل المرفقة.

سيظهر إشعار تحذير على الشاشة في الوقت المحدد بعد إيقاف تشغيل الوحدة. إذا لم تظهر الإشعار، فراجع تعليمات التشغيل المرفقة.

إذا لم يتم ضبط وظيفة إيقاف التشغيل التلقائي، فسيظل الجهاز قيد التشغيل حتى يتم الضغط على (SOURCE/OFF) حتى تظهر الشاشة كل مرة عند إيقاف تشغيل المحرك.

استبدال المنصهر (8)

عند استبدال المنصهر، تأكد من استخدام منصهر يتطابق مع معدل الأمبير المكتوب على المنصهر الأصلي. إذا احترق المنصهر، تأكد من فصل الطاقة وإصلاح التوصيل الكهربائي قبل إعادة تشغيل الوحدة. إذا لم يتم إصلاح المنصهر، فقد يتسبب خطر الحرائق أو حدوث تلفات إضافية.

تركيب الميكروفون (9)

لتقاط الصوت أثناء الاتصال دون استخدام اليد، تحتاج إلى تركيب الميكروفون (المرفق).

تنبيهات

- تجنب الميكروفون بعيداً عن درجات الحرارة والرطوبة العالية للغاية.
- لا تدع الحبل يلتف حول عمود التوجيه أو عمود التوجيه أو أي أجزاء أخرى.
- إذا كانت تحجب سيارتك على سدادات هوائية أو أي أجزاء أخرى من معدات السلامة، فتأكد من فصل المنصهر أولاً من أجل السلامة.
- إذا لم يتم ضبط وظيفة إيقاف التشغيل التلقائي، فسيظل الجهاز قيد التشغيل حتى يتم الضغط على (SOURCE/OFF) حتى تظهر الشاشة كل مرة عند إيقاف تشغيل المحرك.

9-A التركيب على حاجب الشمس

- قم بتركيب الميكروفون (9) على الحجاب (9).
- قم بتركيب الحجاب (9) على حاجب الشمس.
- قم بتركيب الحجاب (9) على لوحة العدادات باستخدام شريط مزدوج لاصق.

9-B التركيب على لوحة القيادة

- قم بتركيب الميكروفون (9) على الحجاب (9)، ثم ضع الحبل على الشق الموجود على الحجاب (9).
- قم بتركيب الحجاب (9) على لوحة العدادات باستخدام شريط مزدوج لاصق.
- قم بتركيب حجاب (غير مرفق) واسحب طول السلك ووضعه بحيث لا يعيق القيادة.

ملاحظات

- قبل تركيب الحبل على لوحة العدادات، قم بتنظيف سطح لوحة العدادات باستخدام قطعة قماش جافة.
- ضبط زاوية الميكروفون إلى الموضع المناسب.
- لا يمكن تركيب الميكروفون (9) مع شريط لاصق مزدوج لاصق في هذه الحالة. في جميع الحالات، قم بتركيب الميكروفون على لوحة العدادات باستخدام الشريط المرفق المزدوج لاصق (9). احتفظ بالجزء (9) غير المستخدم للاستخدام في المستقبل.

فارسی

احتیاطها

- محل نصب را به دقت انتخاب کنید تا دستگاه با عملیات معمول رانندگی تداخل پیدا نکند.
- از نصب دستگاه در مناطقی که در معرض گرد و خاک، گشایش، لرزش بیش از حد، یا دماهای بالا مانند موتور مستقیم خودرو یا نزدیک کانال های گرمایی خودروی نزدیک، اجتناب کنید.
- از نصب دستگاه در مناطقی که در معرض لرزش بیش از حد، یا دماهای بالا مانند موتور مستقیم خودرو یا نزدیک کانال های گرمایی خودروی نزدیک، اجتناب کنید.

تنظیم زاویه نصب
زاویه نصب را به کمتر از 45 درجه تنظیم کنید.

خارج کردن بدنه محافظ و کلاب (4)

پیش از نصب دستگاه، بدنه محافظ (4) و کلاب (4) را از دستگاه جدا کنید.

- بدنه محافظ (4) را خارج کنید.
- هر دو کلاهک بدنه محافظ (4) را فشار دهید، سپس آن را بیرون بکشید.
- کلاب (4) را خارج کنید.
- هر دو کلید افراج (4) را با یکدیگر به میان دستگاه و کلاب (4) وارد کنید تا صدای کلیک بشنود.
- کلاب (4) را با پایین کشیدن، سپس دستگاه را به بالا بکشید تا جدا شود.

نمونه نصب (5)

نصب در داشبورد

توجهات

- پیش از نصب، مطمئن شوید که کلاهک ها در هر دو طرف کلاب (4) به سمت درجه 2 میلیمتر به سمت بیرون خم شده اند. اگر کلاهک ها صاف یا به سمت بیرون خم نشده اند، دستگاه به درستی نصب نخواهد شد. برای جزئیات بیشتر، به بخش "توجهات" مراجعه کنید.
- پیش از استفاده، مطمئن شوید که کلاهک ها به درستی در جای خود قرار گرفته اند.
- مطمئن شوید که 4 پیچ در بدنه محافظ (4) به درستی در جای خود قرار گرفته اند.

نصب کردن دستگاه در یک الویس (6)

شما ممکن است قادر باشید دستگاه را در بعضی از الویس های خود نصب کنید (این نصب فقط در چین مجاز است). در فرودگاه Sony مشورت بگیرید.

توجه جدا کردن و وصل کردن پائل جلوبلی (7)

پیش از نصب کردن دستگاه، پائل جلوبلی را جدا کنید.

7-A برای جدا کردن

قبل از جدا کردن بدنه محافظ (SOURCE/OFF) را فشار دهید و بدنه محافظ را به سمت بیرون بکشید تا صدای کلیک بشنود. بدنه محافظ را بیرون بکشید تا بیرون بیاید.

7-B برای وصل کردن

قسمت (7) را با جلوبلی را با قسمت (8) دستگاه متصل کنید. هنگام اتصال، صدای کلیک خواهید شنید. مطمئن شوید که قسمت (7) به درستی به داخل محرابیت دستگاه متصل شده است.

هشدار در صورتی که سوییچ استارت الویس شما دارای موقعیت ACC نمی باشد

توجهات: هنگامی که یک موتور خودروی شما دارای موقعیت ACC است، پس از خاموش کردن موتور، دستگاه به طور خودکار خاموش می شود. اگر شما ماشین خود را خاموش کنید، اما موتور خودروی شما خاموش نشود، پس از خاموش کردن موتور، دستگاه به طور خودکار خاموش می شود. اگر شما ماشین خود را خاموش کنید، اما موتور خودروی شما خاموش نشود، پس از خاموش کردن موتور، دستگاه به طور خودکار خاموش می شود.

جایگزینی فیوز (8)

هنگام جایگزینی فیوز، مطمئن شوید که فیوز جدید با همان مشخصات فیوز قبلی شما مطابقت دارد. اگر فیوز قبلی شما سوخته است، قبل از تعویض آن، فیوز قبلی خود را بررسی کنید. اگر فیوز قبلی شما سوخته است، قبل از تعویض آن، فیوز قبلی خود را بررسی کنید. اگر فیوز قبلی شما سوخته است، قبل از تعویض آن، فیوز قبلی خود را بررسی کنید.

نصب میکروفون (9)

برای ضبط صدا در طول تماس، به میکروفون (مرفق) نیاز دارید. برای نصب میکروفون، به بخش "نصب میکروفون" مراجعه کنید.

9-A نصب روی تابلوی

- میکروفون (9) را روی کلاب (9) نصب کنید.
- کلاب (9) را روی تابلوی نصب کنید.
- کلاهک ها (9) را از تابلوی جدا کنید و طول و مواجعت سیم را طوری تنظیم کنید که مانع از رانندگی شما نشود.

9-B نصب روی داشبورد

- میکروفون (9) را روی کلاب (9) نصب کنید، سپس سیم را در حباب کلاب قرار دهید.
- کلاهک ها (9) را با استفاده از نواری دو طرفه، به داشبورد وصل کنید.
- کلاهک ها (9) را از تابلوی جدا کنید و طول و مواجعت سیم را طوری تنظیم کنید که مانع از رانندگی شما نشود.

توجهات

- قبل از جدا کردن نواری دو طرفه، سطح داشبورد را با پارچه خشک تمیز کنید.
- زاویه نصب میکروفون را به موقعیت مناسب تنظیم کنید.
- میکروفون (9) را با چسب دوطرفه به داشبورد نچسباند.
- در این حالت، میکروفون (9) را با نواری دو طرفه، به داشبورد وصل کنید. کلاهک ها (9) را با چسب دوطرفه به داشبورد نچسباند.

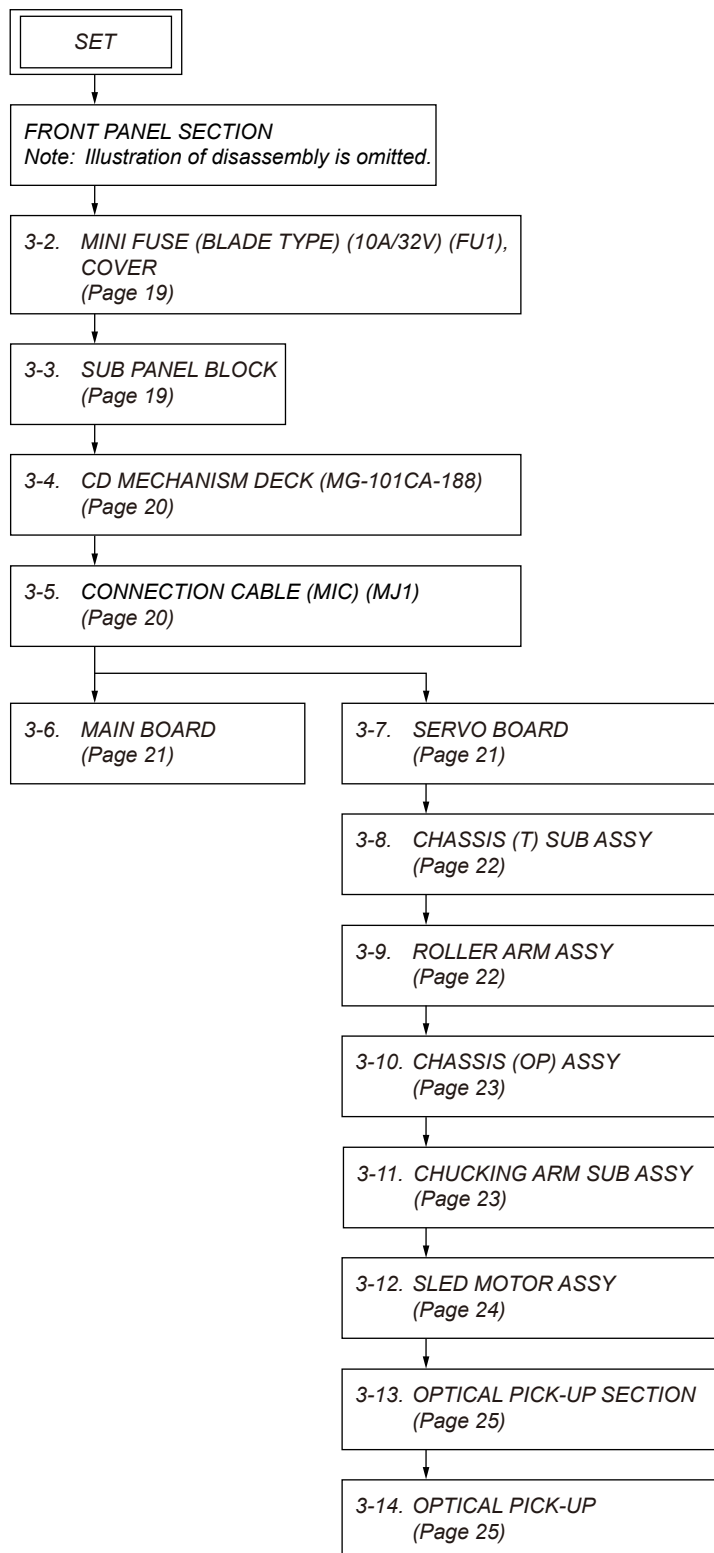
MEX-BT4100E/BT4100P/BT4100U/BT4150U

SECTION 3

DISASSEMBLY

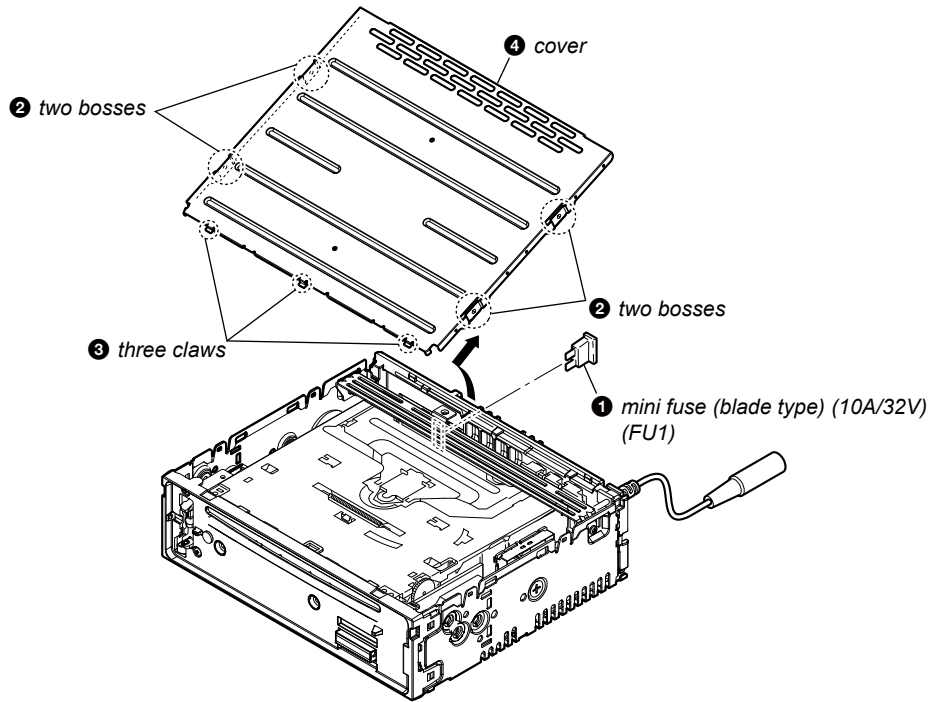
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

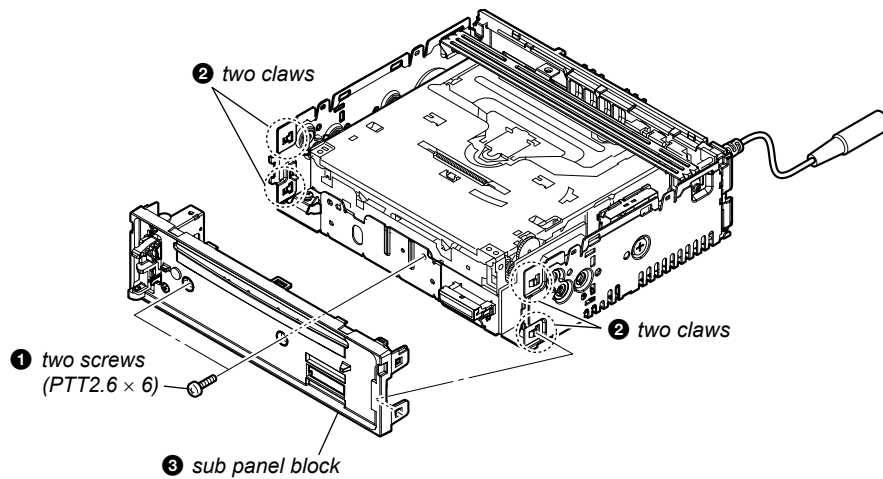


Note: Follow the disassembly procedure in the numerical order given.

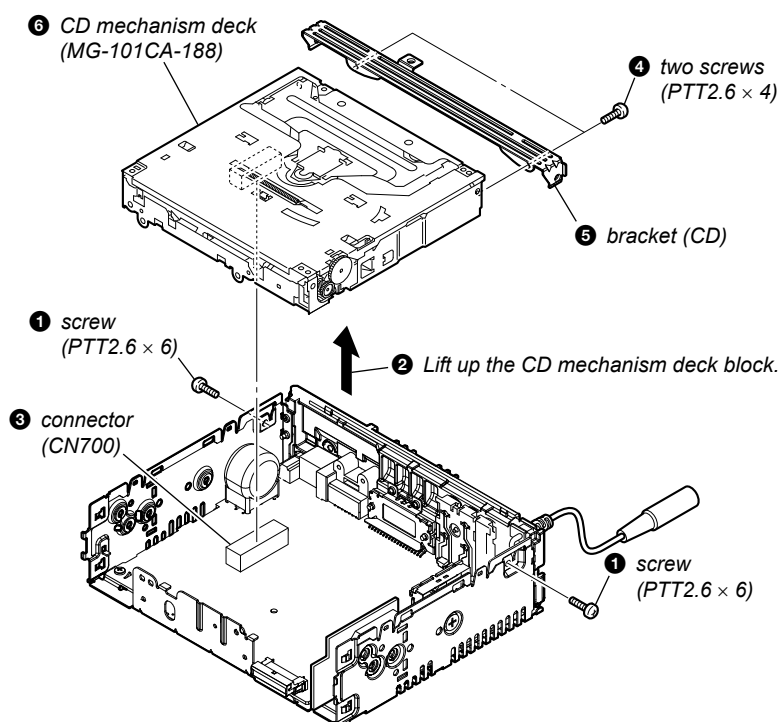
3-2. MINI FUSE (BLADE TYPE) (10A/32V) (FU1), COVER



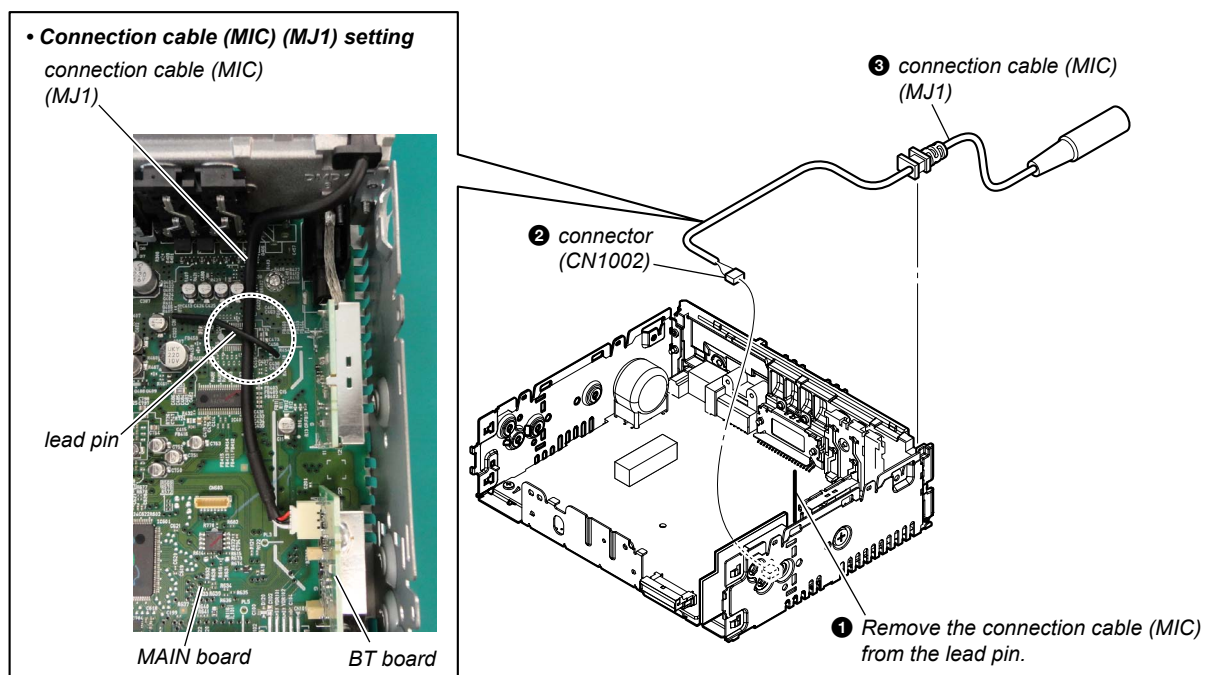
3-3. SUB PANEL BLOCK



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

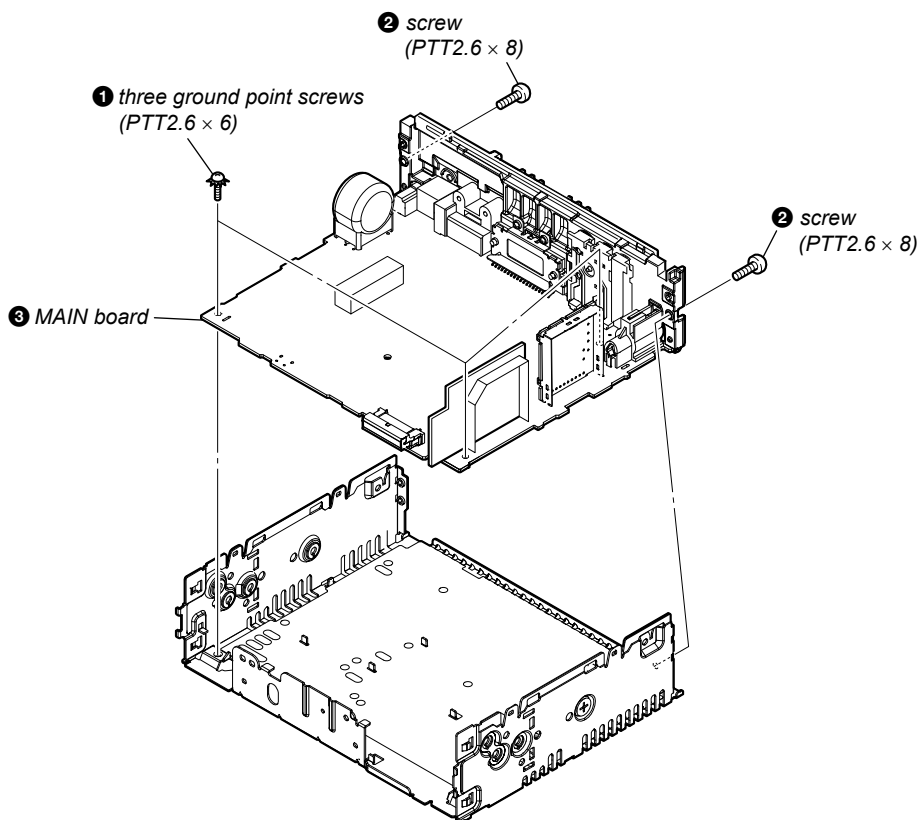


3-5. CONNECTION CABLE (MIC) (MJ1)

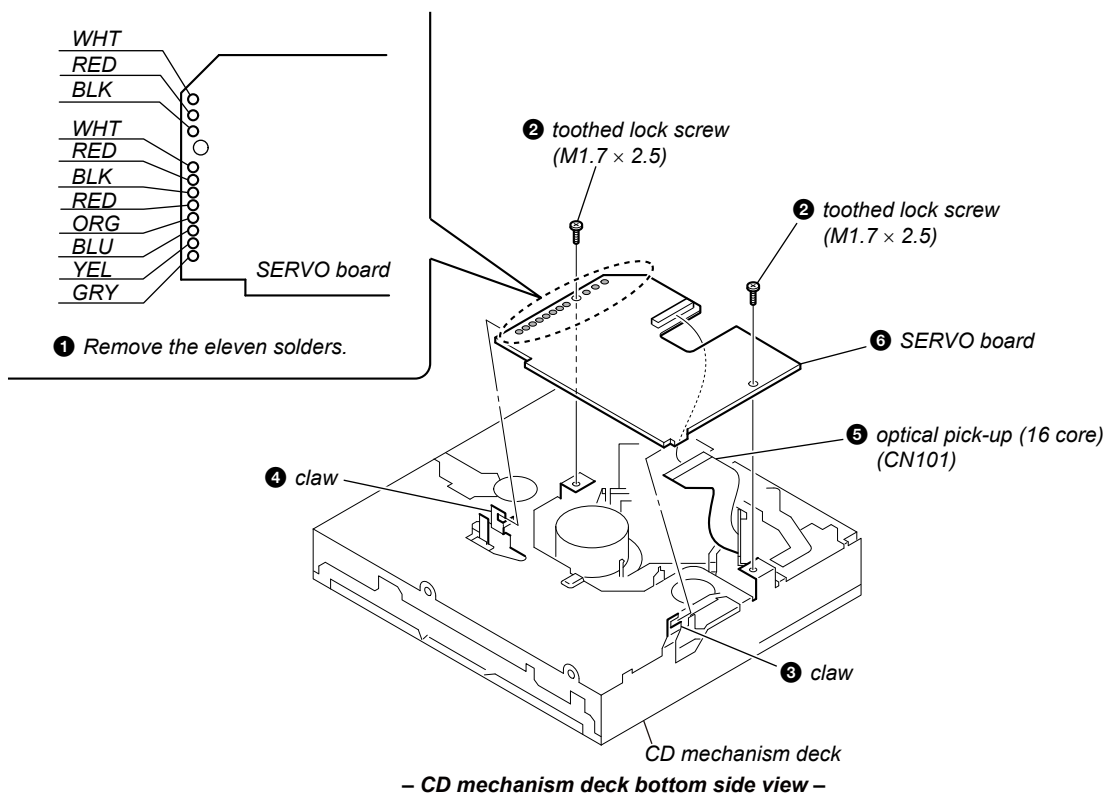


3-6. MAIN BOARD

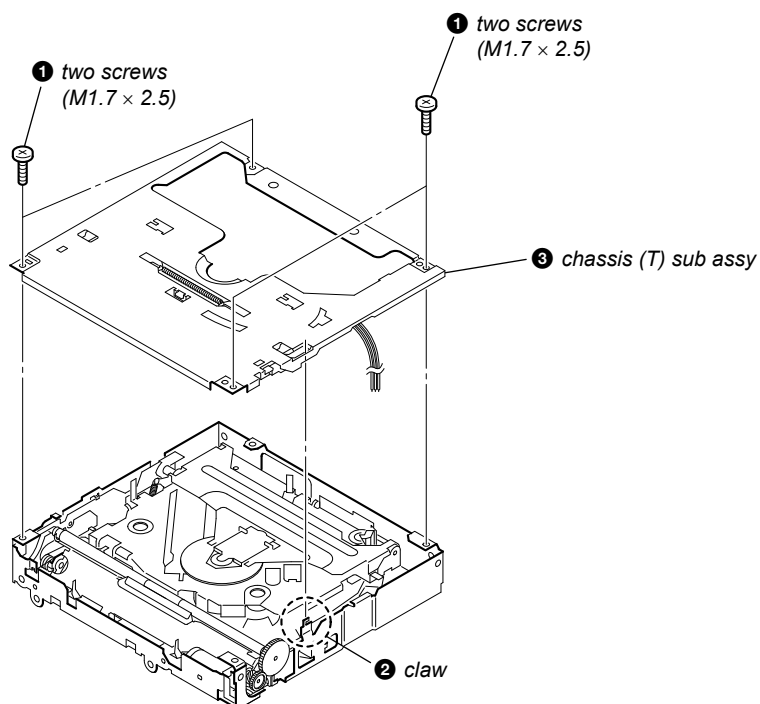
Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to “NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING” on page 4.



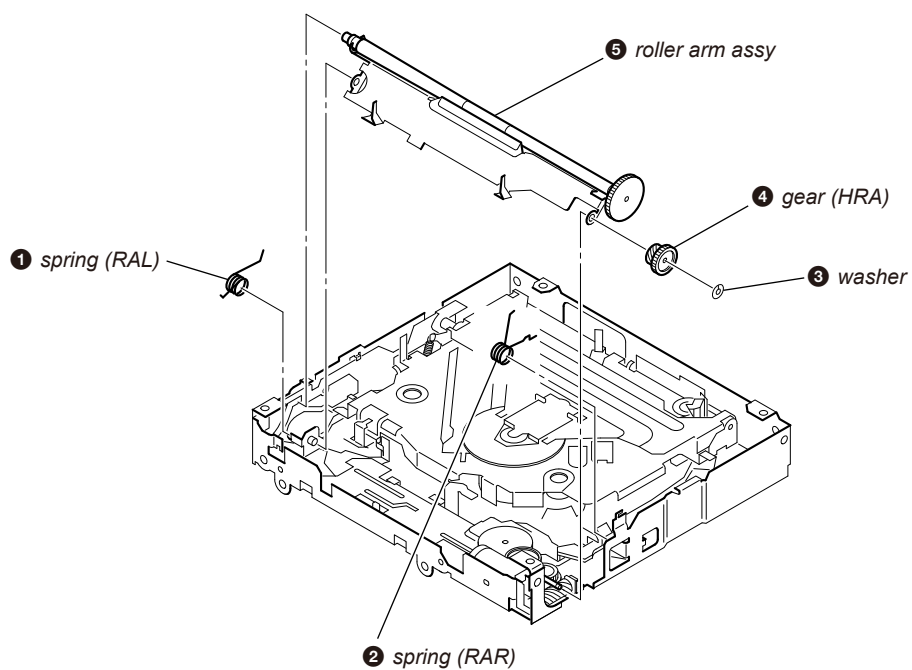
3-7. SERVO BOARD



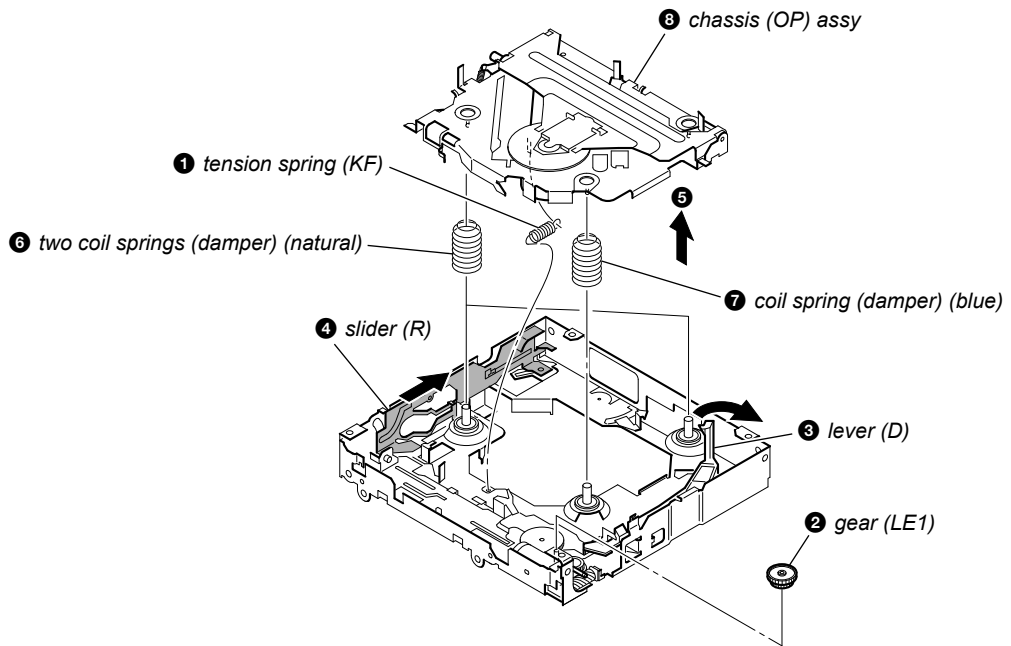
3-8. CHASSIS (T) SUB ASSY



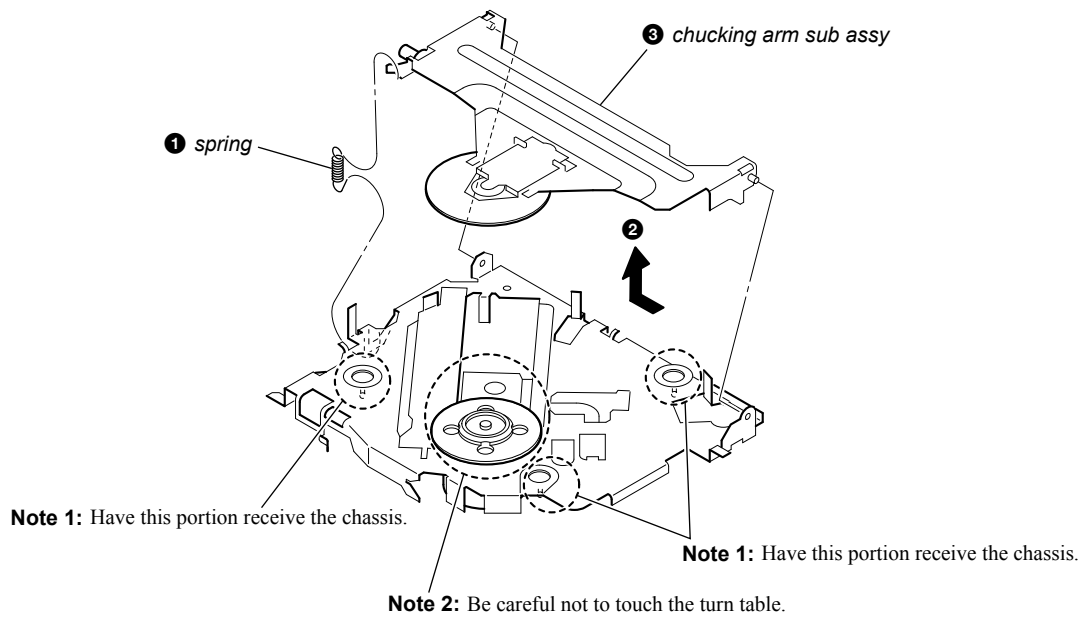
3-9. ROLLER ARM ASSY



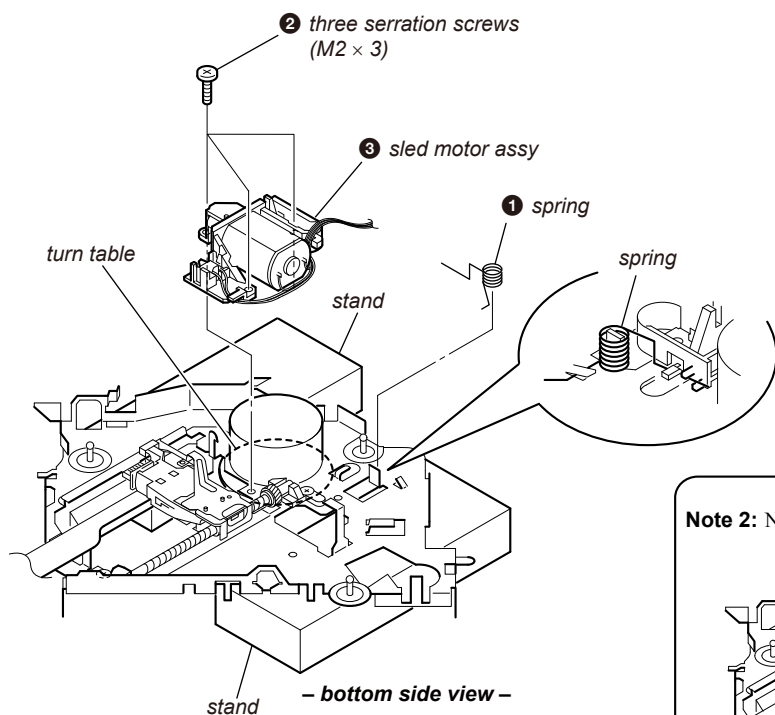
3-10. CHASSIS (OP) ASSY



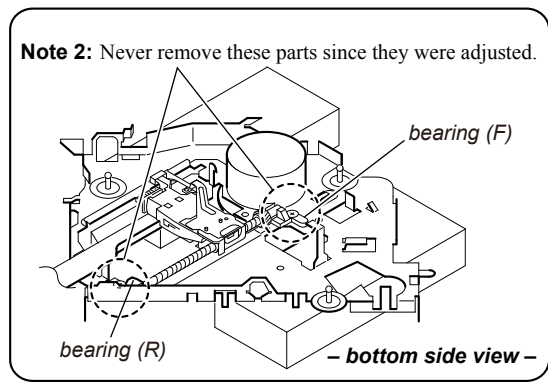
3-11. CHUCKING ARM SUB ASSY



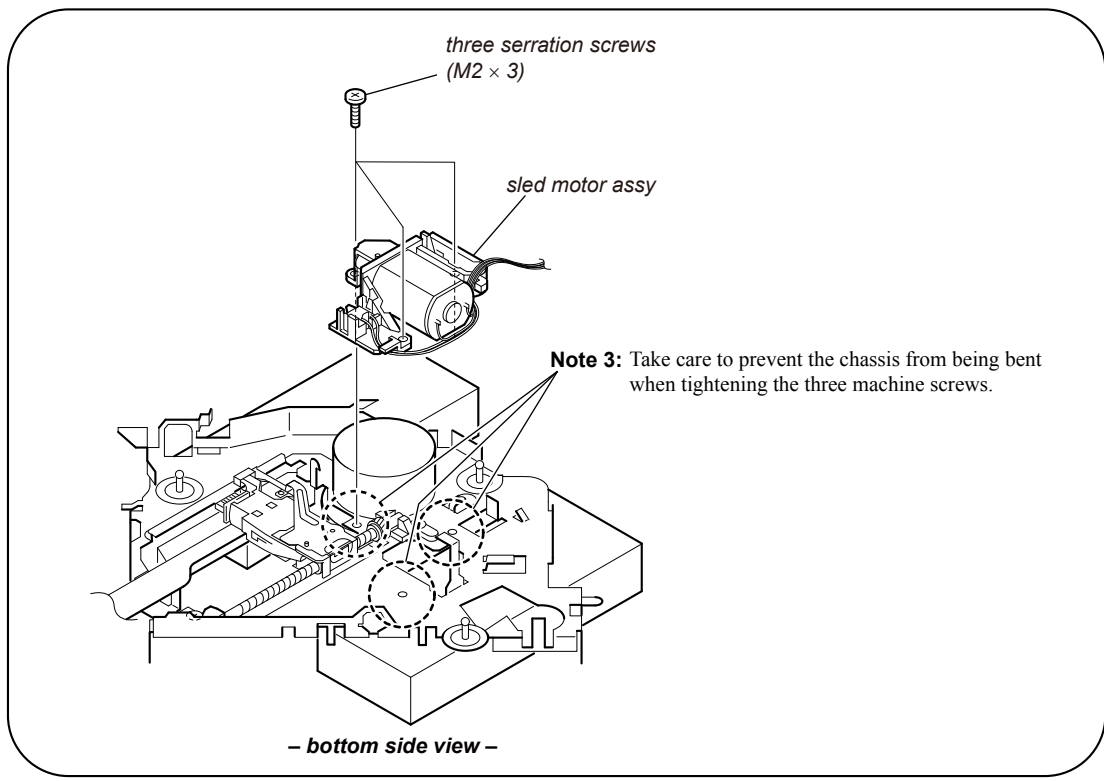
3-12. SLED MOTOR ASSY



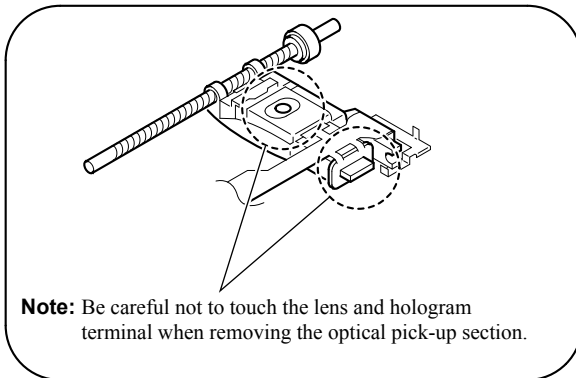
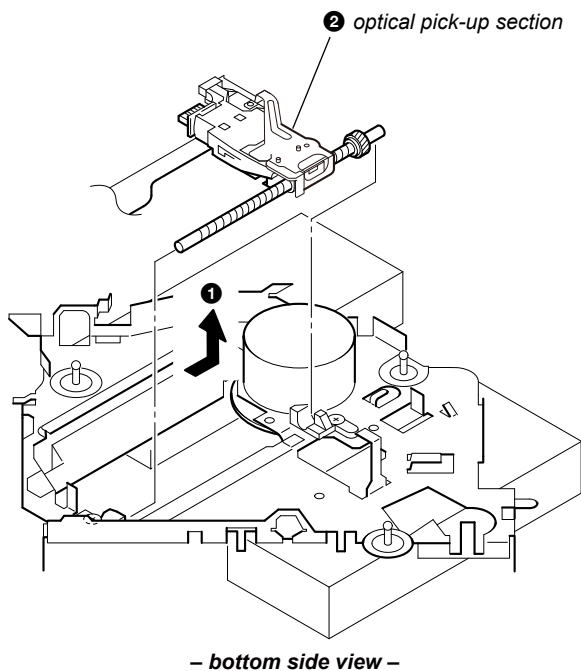
Note 1: Place the stand with care not to touch the turn table.



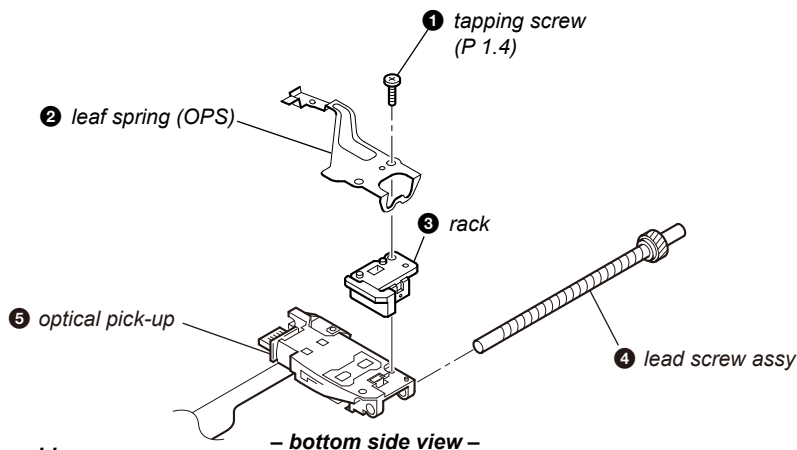
• **Note for Assembly**



3-13. OPTICAL PICK-UP SECTION



3-14. OPTICAL PICK-UP



• 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.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

SECTION 4

TEST MODE

SETTING THE TEST MODE

Setting method:

1. Press the [■ OFF SOURCE] button for 1 second to turn the power off.
2. Press the [SHUF 4] → [MIC/ZAP 5] → [▼ ALBUM 1] buttons sequentially (the [▼ ALBUM 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 [■ OFF SOURCE] button for 1 second.

MICROPHONE AUDIO LOOPBACK

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

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

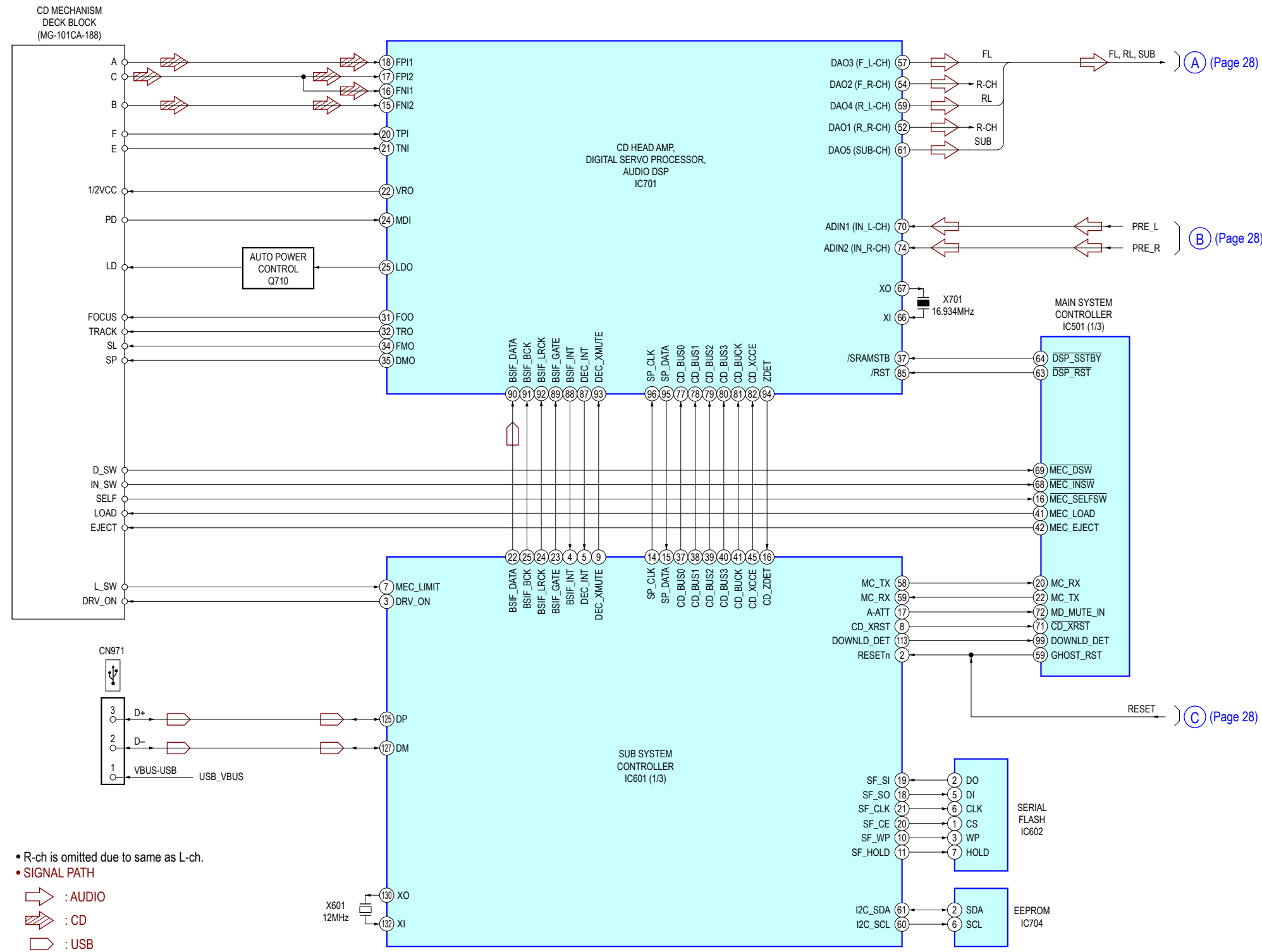
Procedure:

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

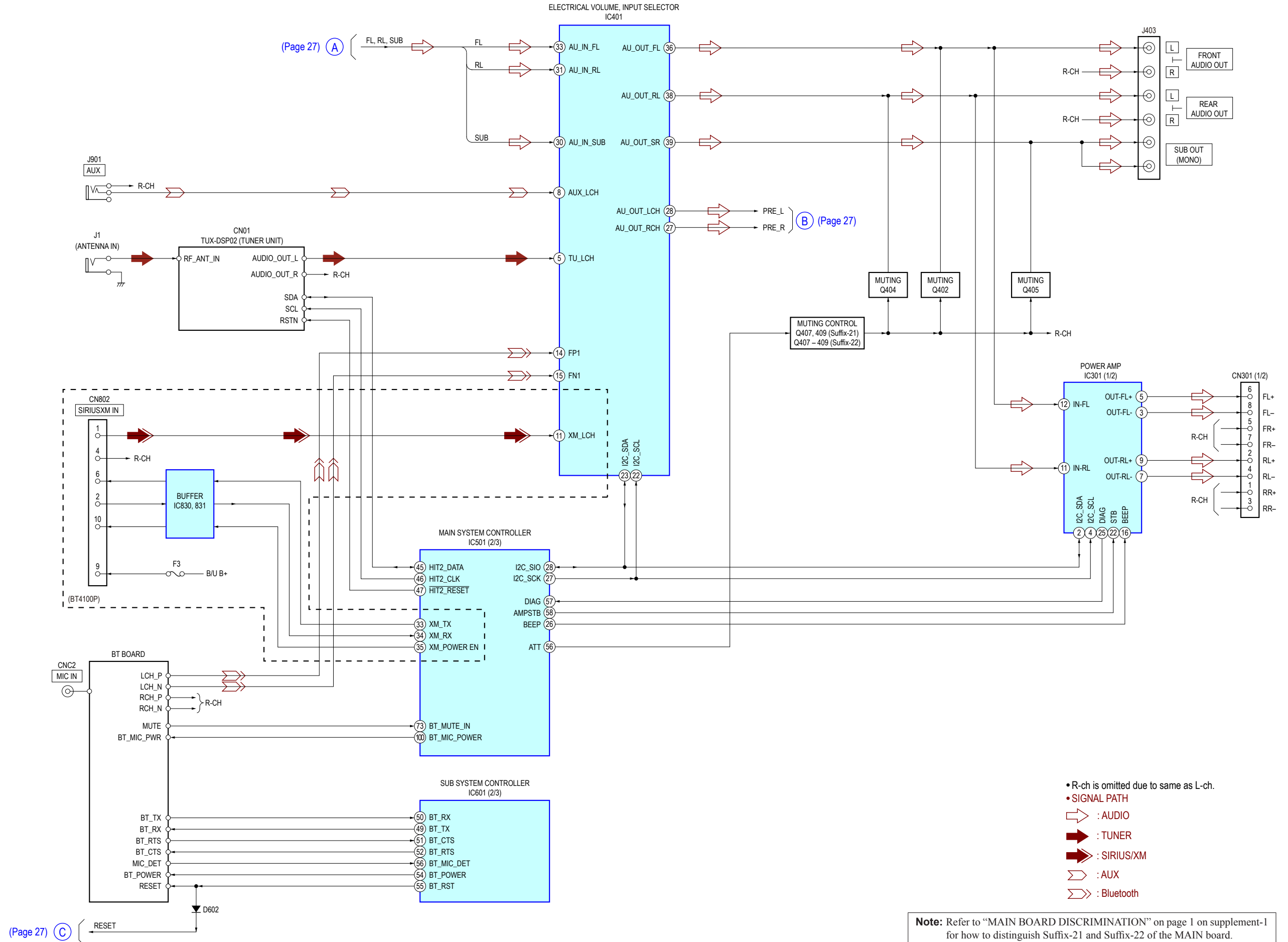
LOOPBACK	ALBM
ON	Lit
OFF	None

SECTION 5 DIAGRAMS

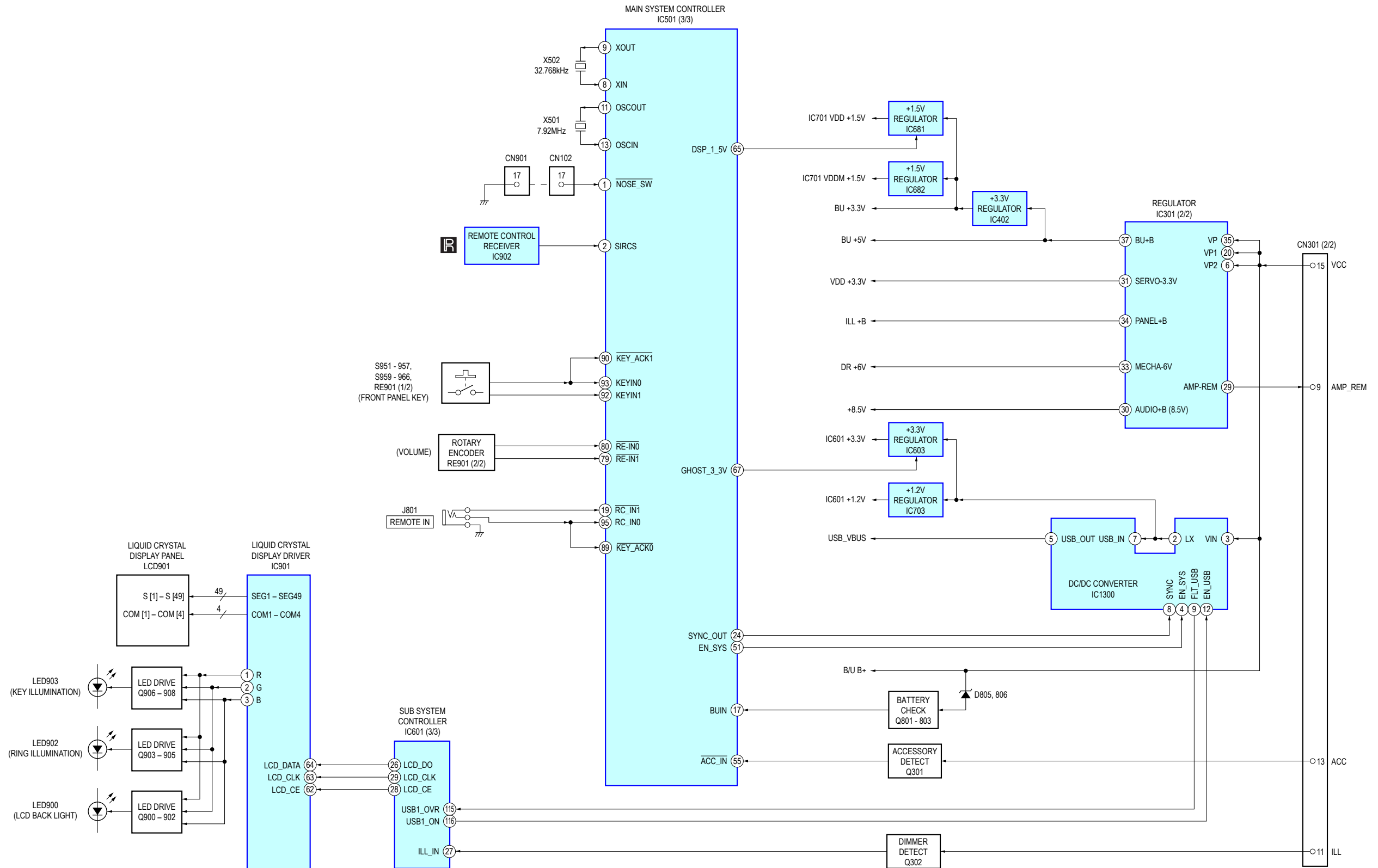
5-1. BLOCK DIAGRAM - SERVO Section -



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.

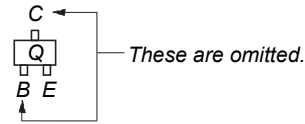
Note:

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

Caution:

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

- Indication of transistor.



- Abbreviation

EA : Saudi Arabia model
MX : Mexican model

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

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

For Schematic Diagrams.

Note:

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

Note:

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

Note:

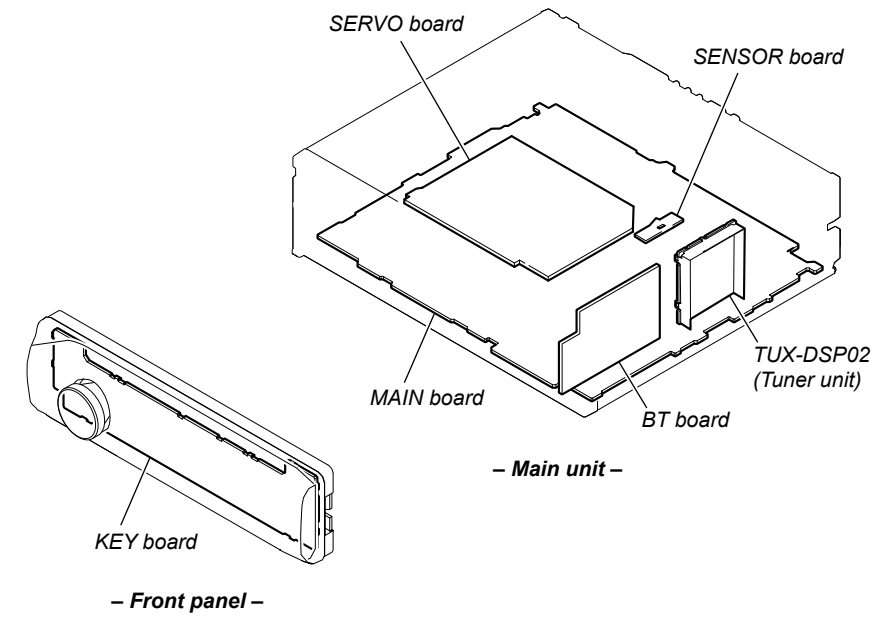
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- —: B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: TUNER (FM)
< >: CD PLAY
* : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⇒ : AUDIO
⇒ : TUNER
⇒ : CD
⇒ : USB
⇒ : SIRIUS/XM
⇒ : AUX
⇒ : Bluetooth

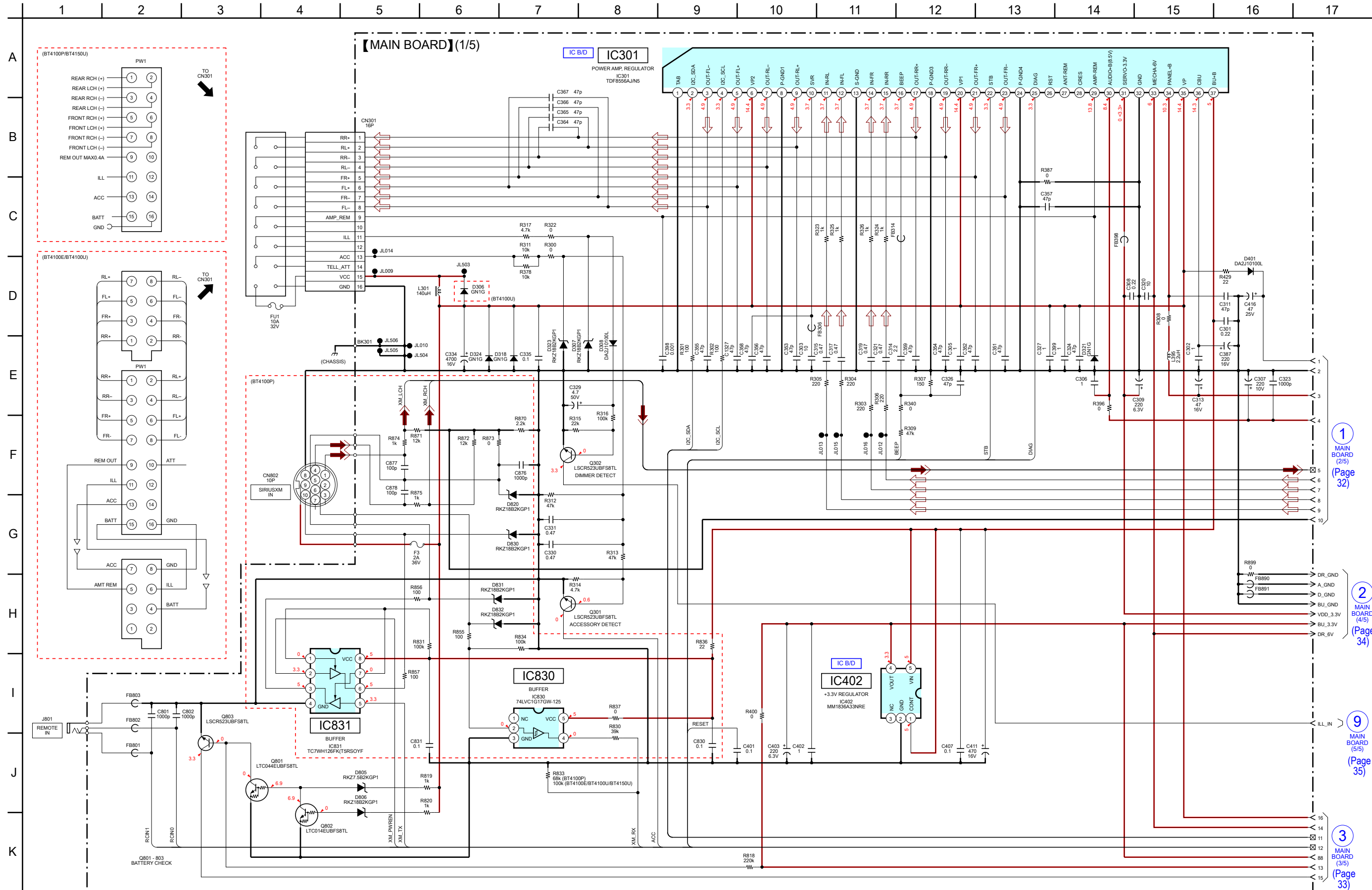
Note 1: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4.

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

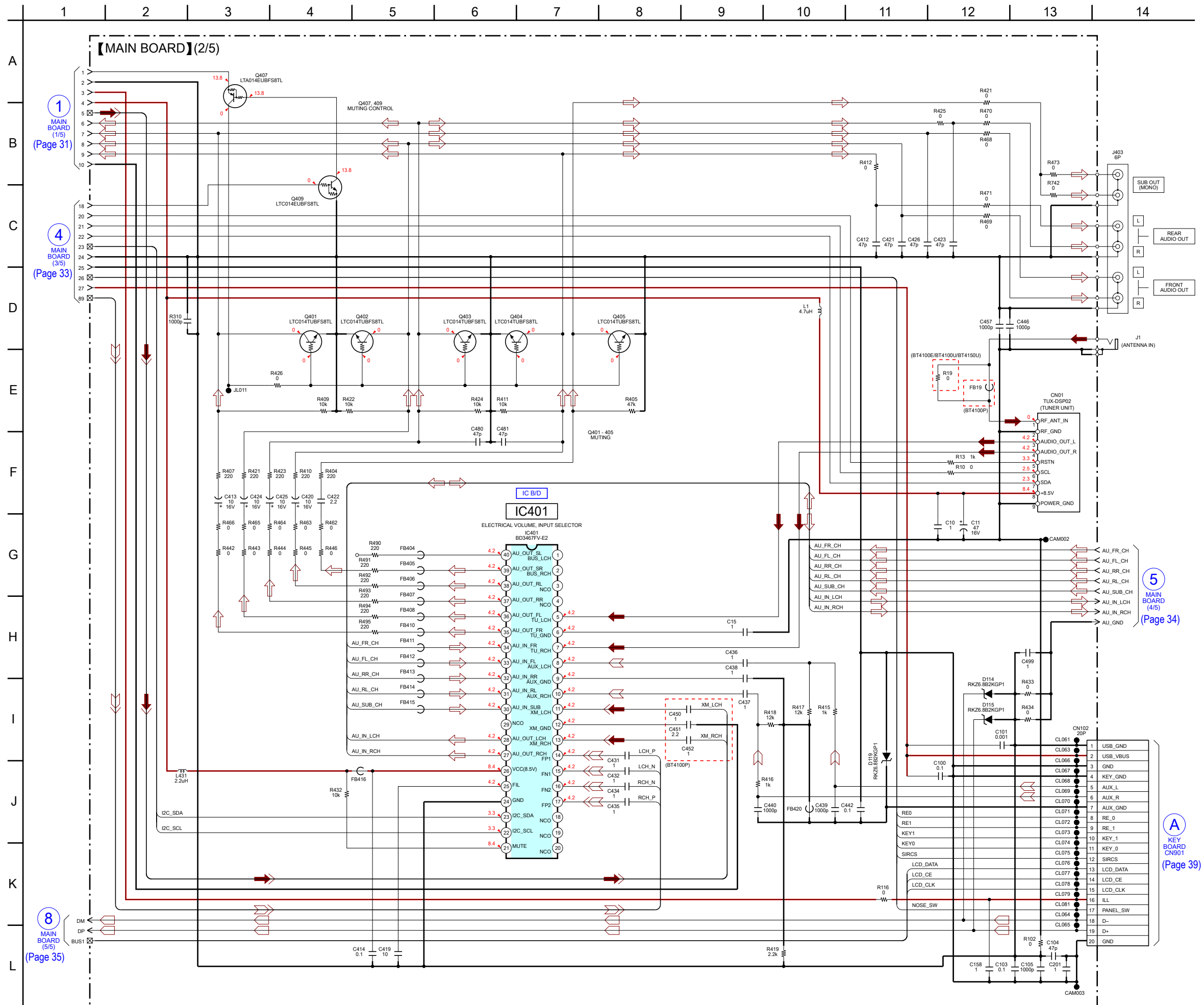
• Circuit Boards Location



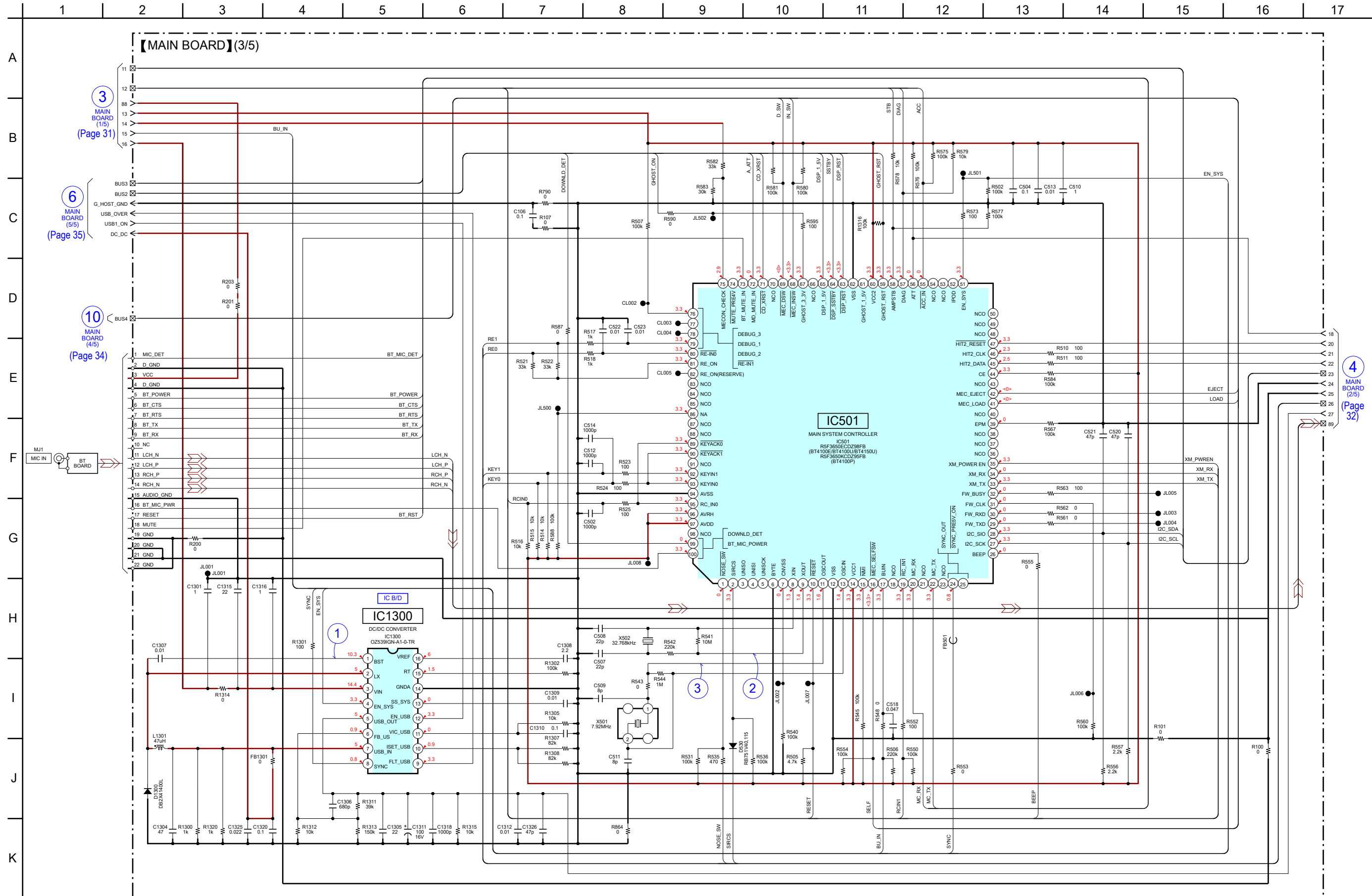
5-4. SCHEMATIC DIAGRAM - MAIN Section (1/5) - • See page 40 for IC Block Diagrams.



5-5. SCHEMATIC DIAGRAM - MAIN Section (2/5) - • See page 40 for IC Block Diagrams.



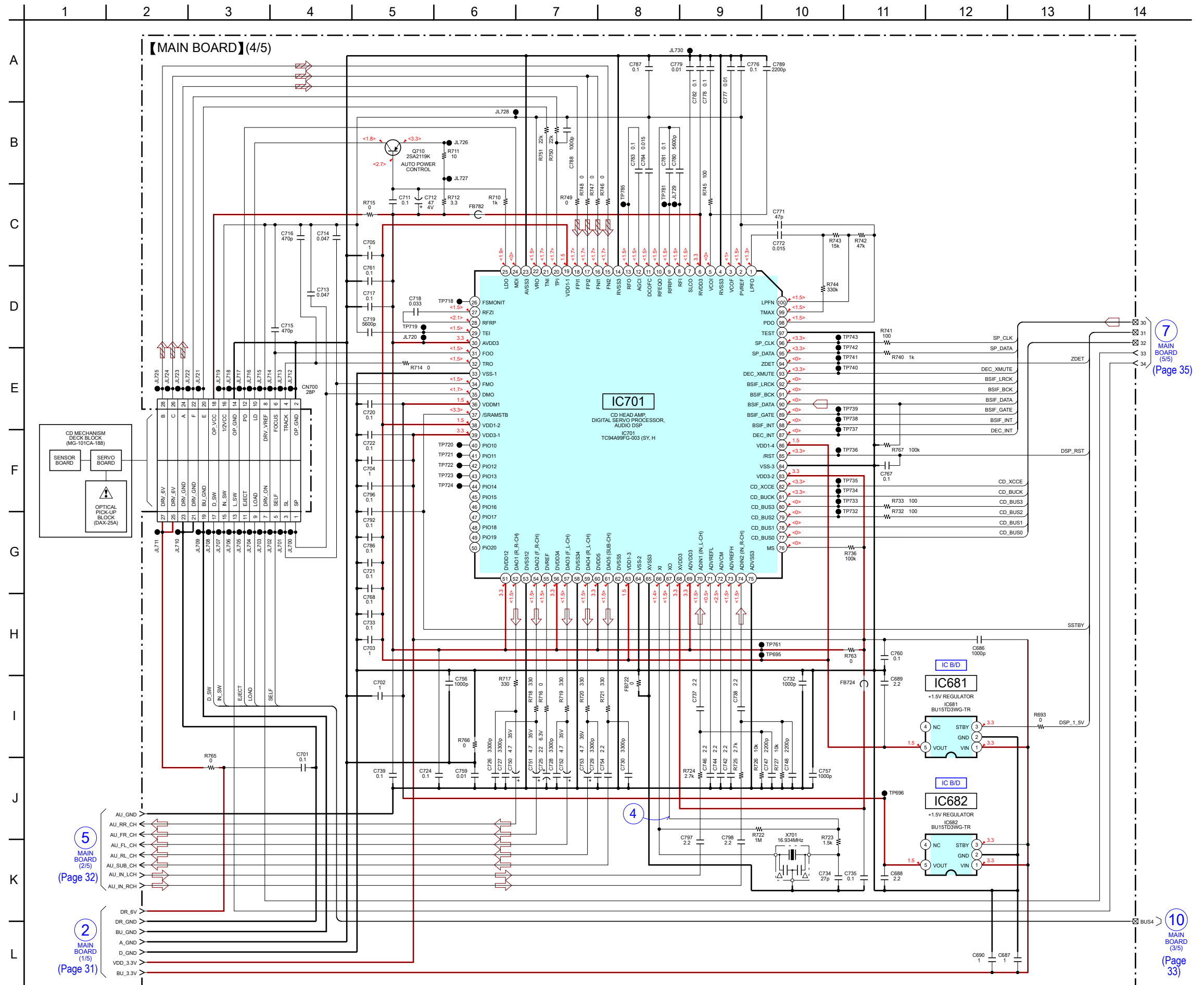
5-6. SCHEMATIC DIAGRAM - MAIN Section (3/5) - • See page 40 for Waveforms. • See page 40 for IC Block Diagrams. • See page 42 for IC Pin Function Description.



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

Note 2: When IC501 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4.

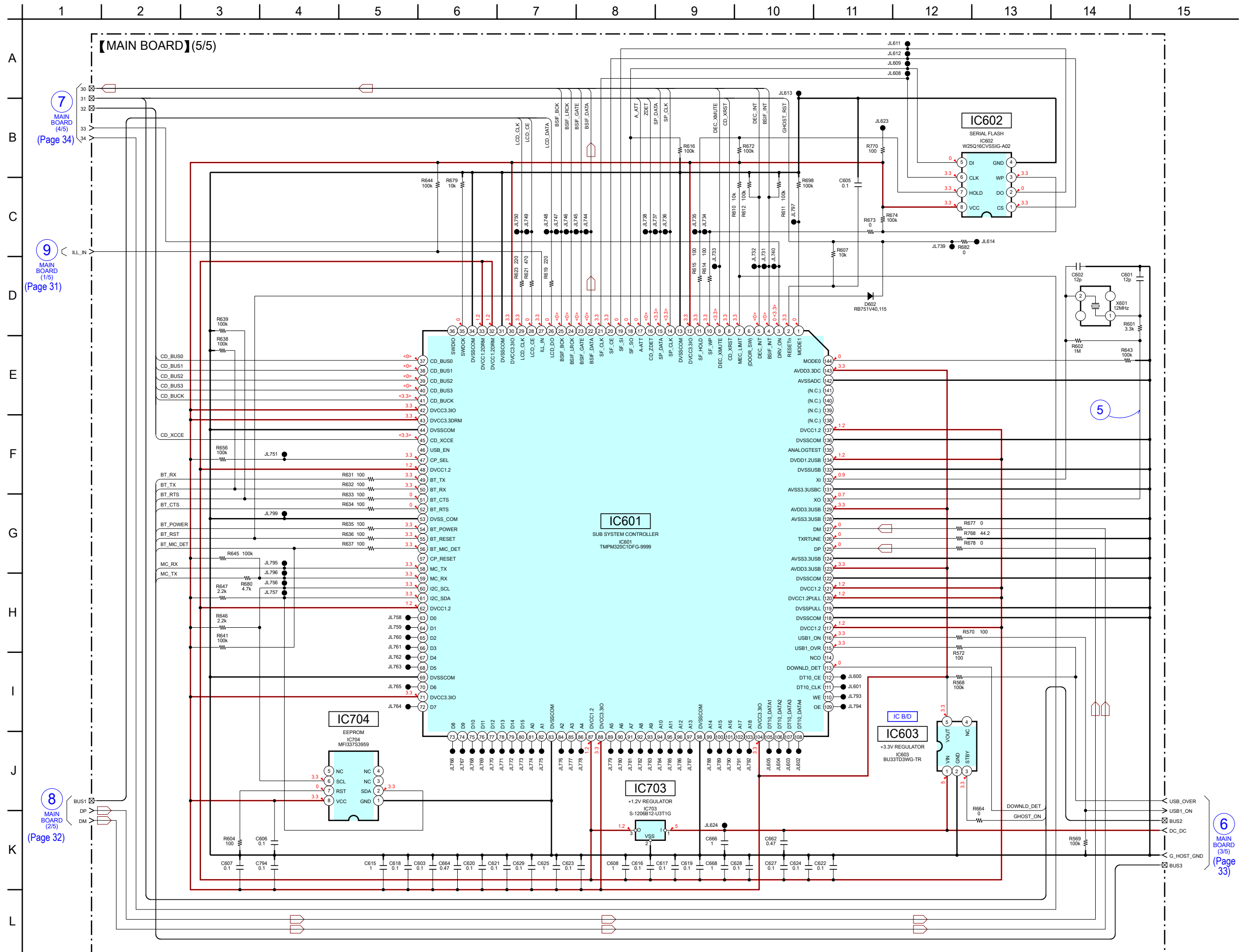
5-7. SCHEMATIC DIAGRAM - MAIN Section (4/5) - • See page 40 for Waveforms. • See page 40 for IC Block Diagrams. • See page 42 for IC Pin Function Description.



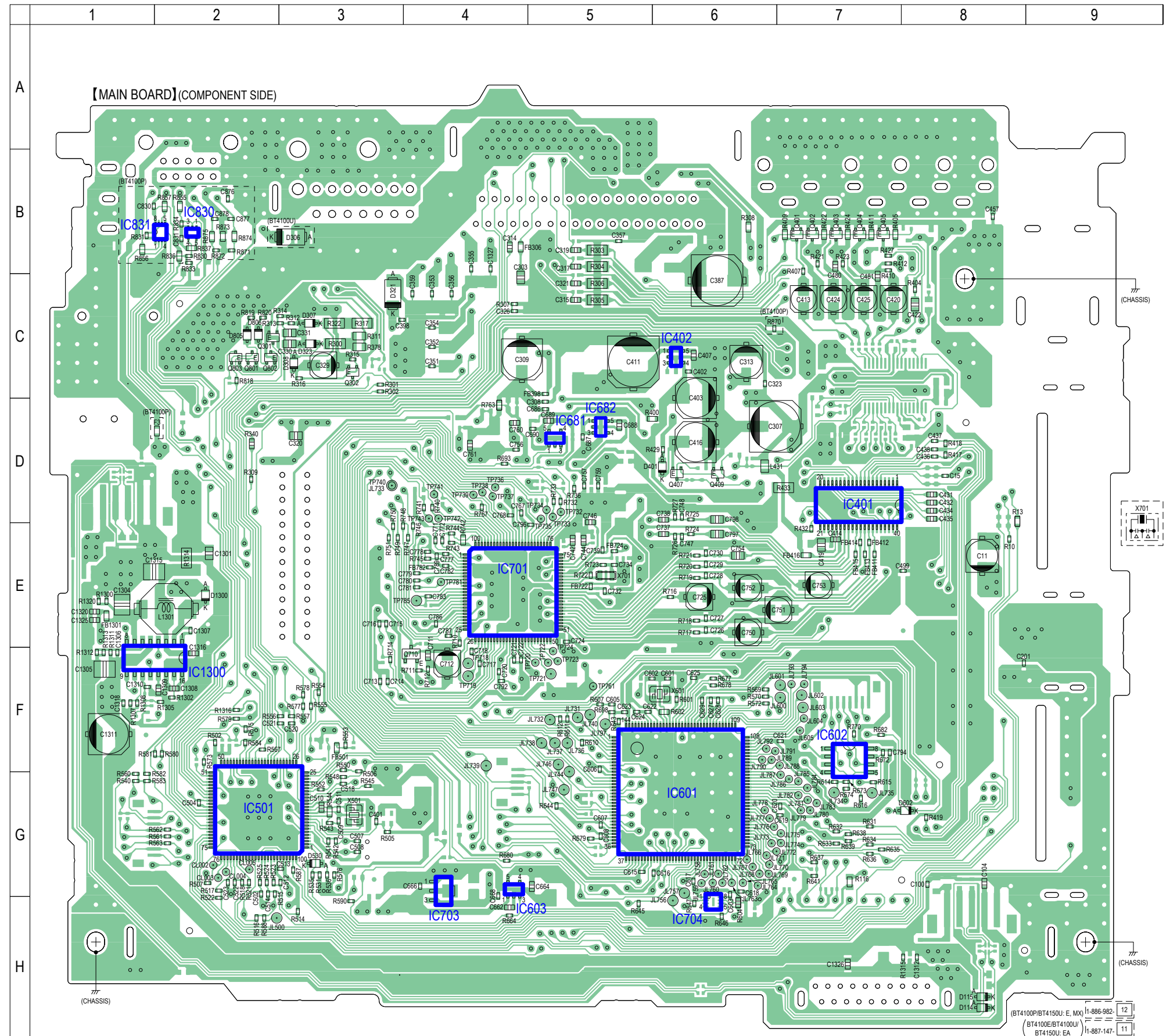
Note 1: When the SERVO board is defective, exchange the complete mounted board.

Note 2: When the SENSOR board is defective, exchange the MECHANICAL BLOCK ASSY.

5-8. SCHEMATIC DIAGRAM - MAIN Section (5/5) - • See page 40 for Waveforms. • See page 40 for IC Block Diagrams. • See page 42 for IC Pin Function Description.

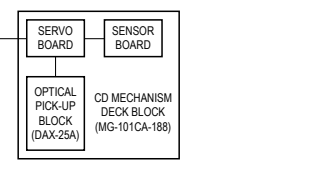
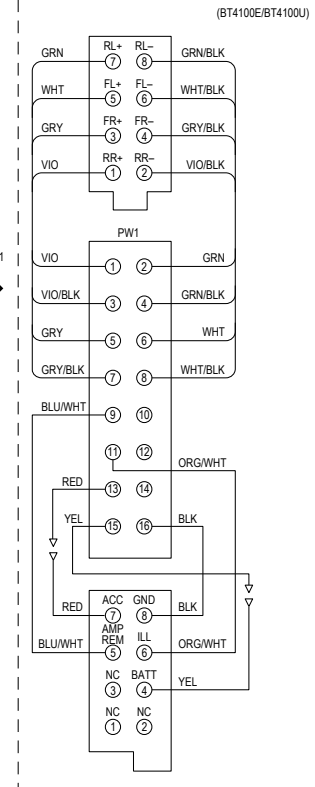
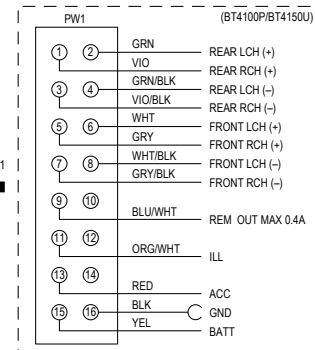
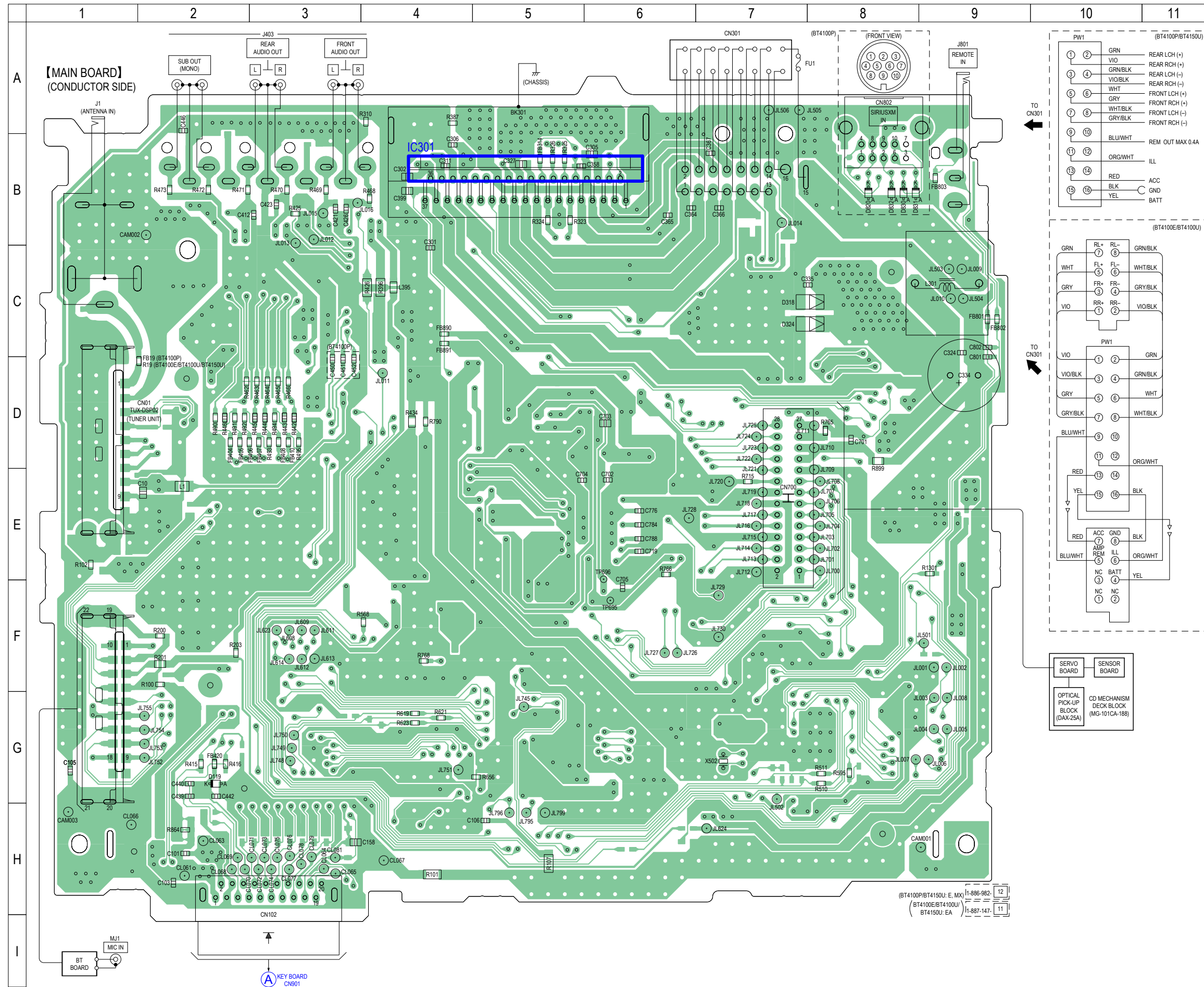


5-9. PRINTED WIRING BOARD - MAIN Section (1/2) - • See page 30 for Circuit Boards Location. •  : Uses unleaded solder.



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

5-10. PRINTED WIRING BOARDS - MAIN Section (2/2) - • See page 30 for Circuit Boards Location. •  : Uses unleaded solder.

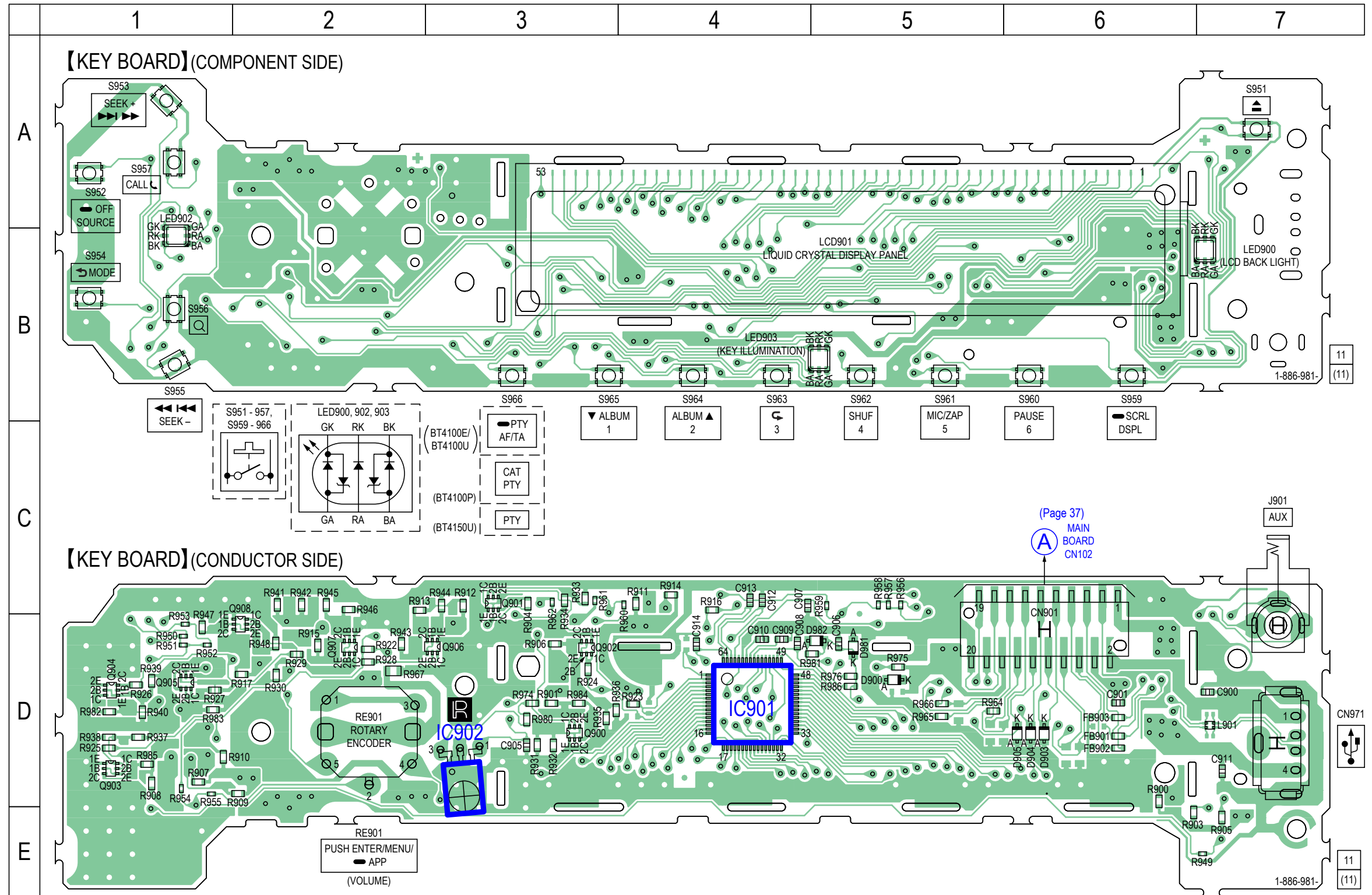


(BT4100P/BT4150U: E, MX) 1-886-982-12
(BT4100E/BT4100U) 1-887-147-11
BT4150U: EA

KEY BOARD
CN301
(Page 38)

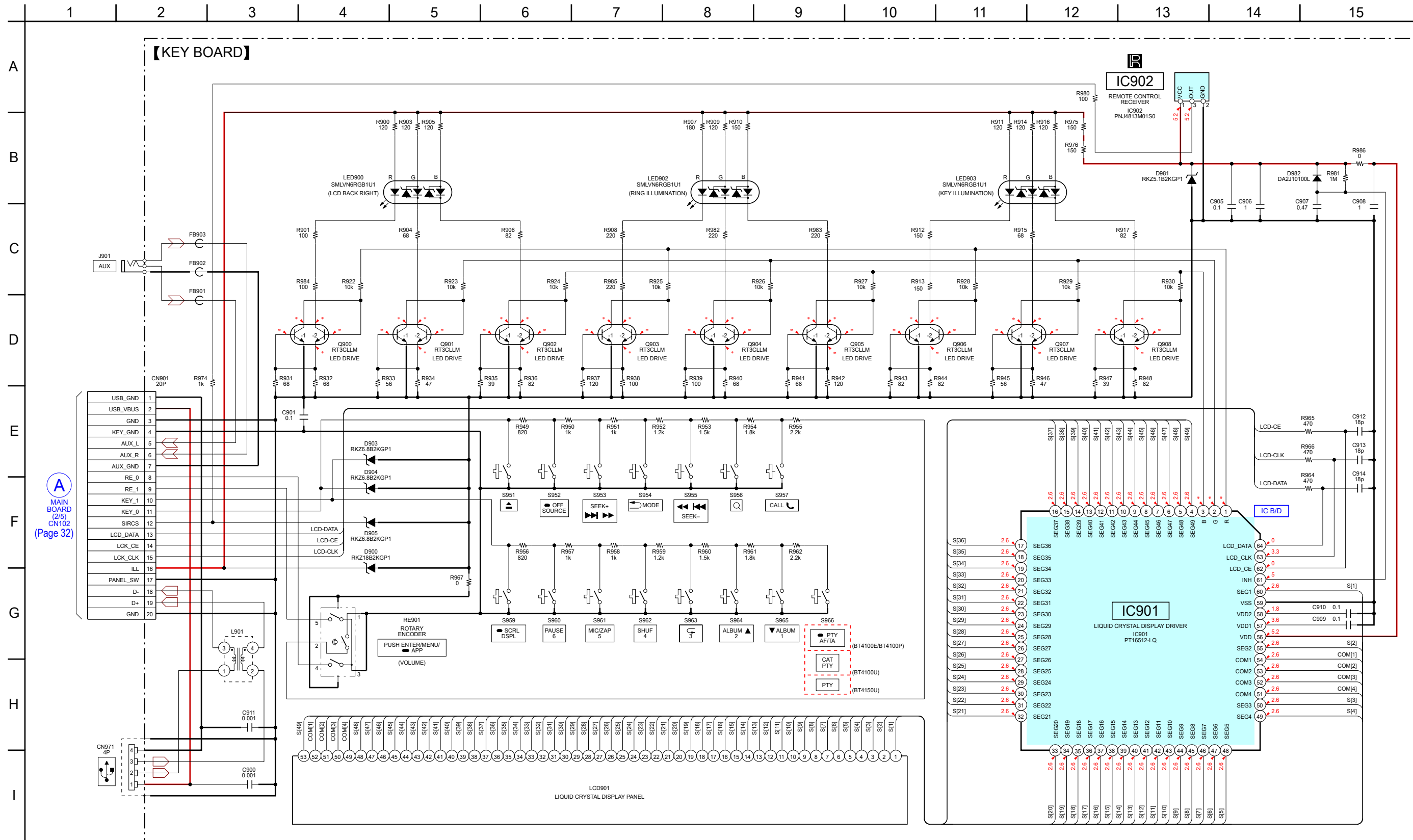
- Note 1:** When the BT board is defective, exchange the complete mounted board.
- Note 2:** When the SERVO board is defective, exchange the complete mounted board.
- Note 3:** When the SENSOR board is defective, exchange the MECHANICAL BLOCK ASSY.

5-11. PRINTED WIRING BOARD - KEY Board - • See page 30 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)" on page 6, if replacing CN971 and J901.

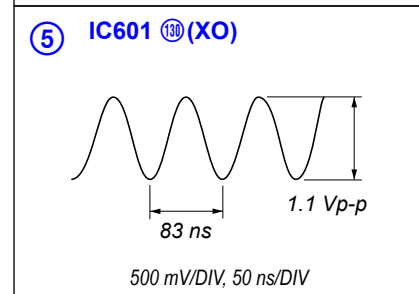
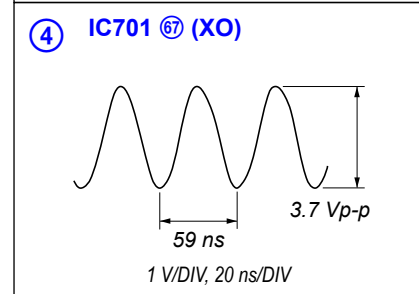
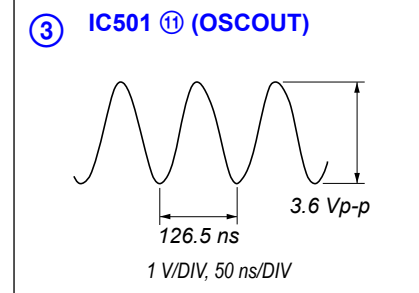
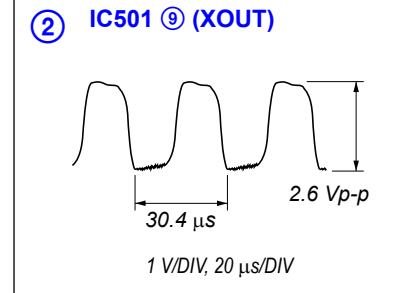
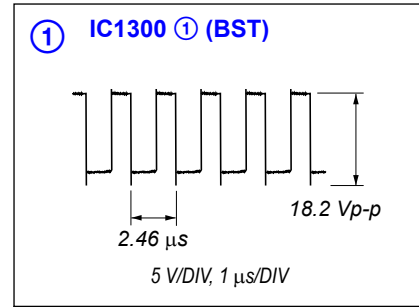
5-12. SCHEMATIC DIAGRAM - KEY Board - • See page 40 for IC Block Diagrams.



Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" on page 6, if replacing CN971 and J901.

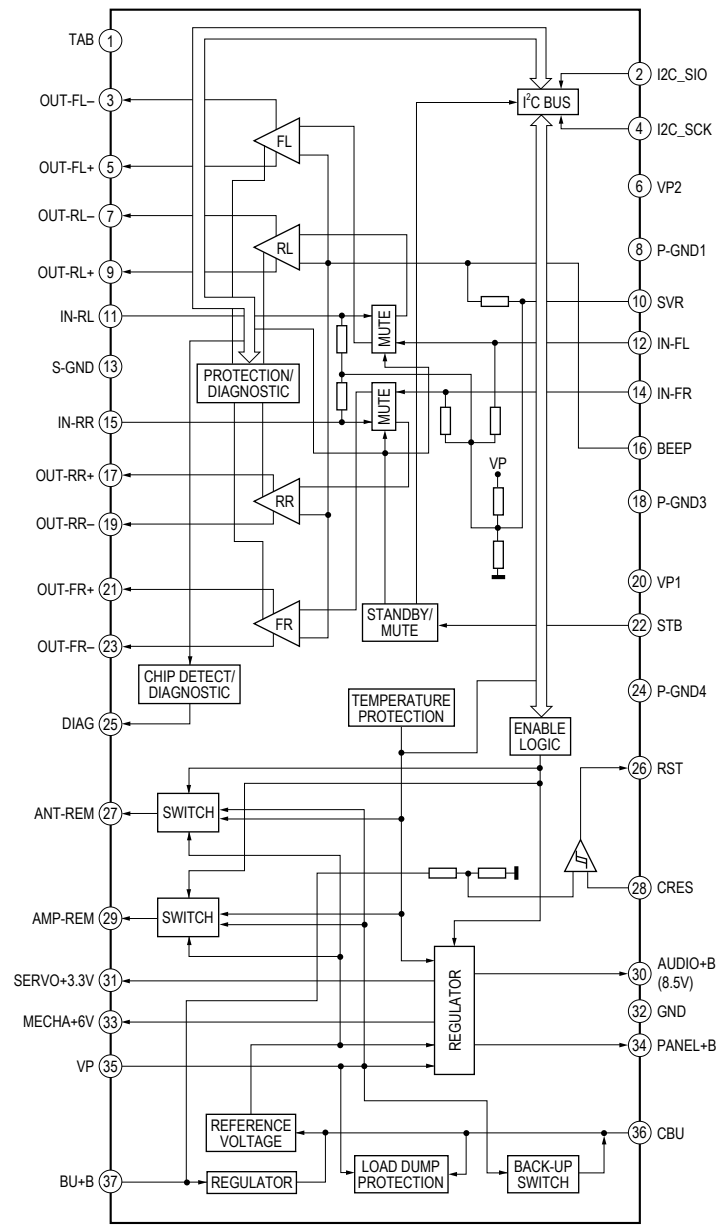
• Waveforms

– MAIN Board –

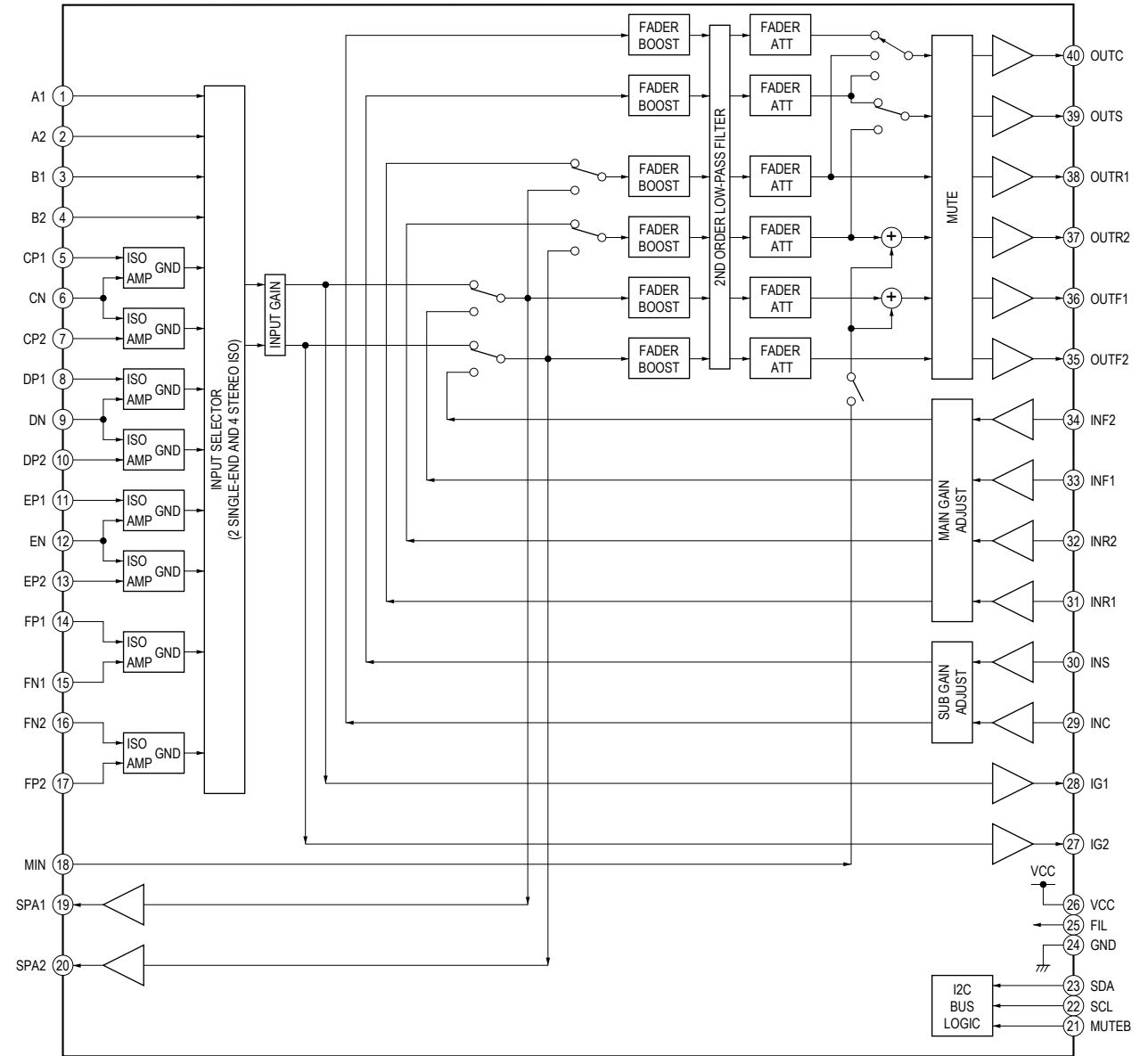


• IC Block Diagrams

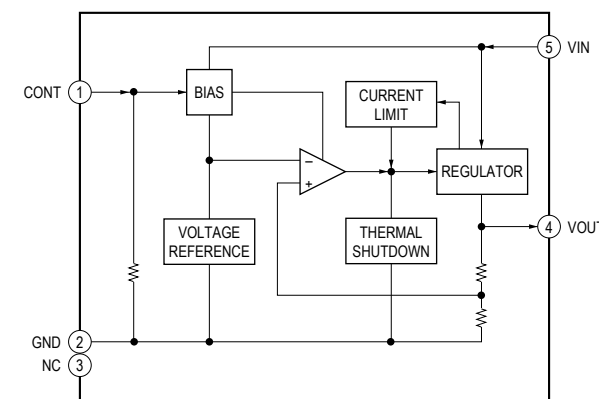
– MAIN Board –
IC301 TDF8556AJ/N5



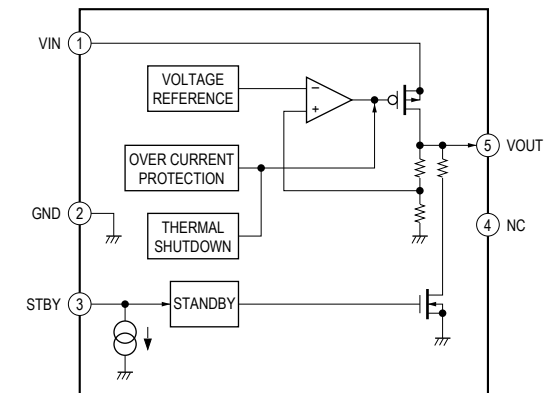
IC401 BD3467FV-E2



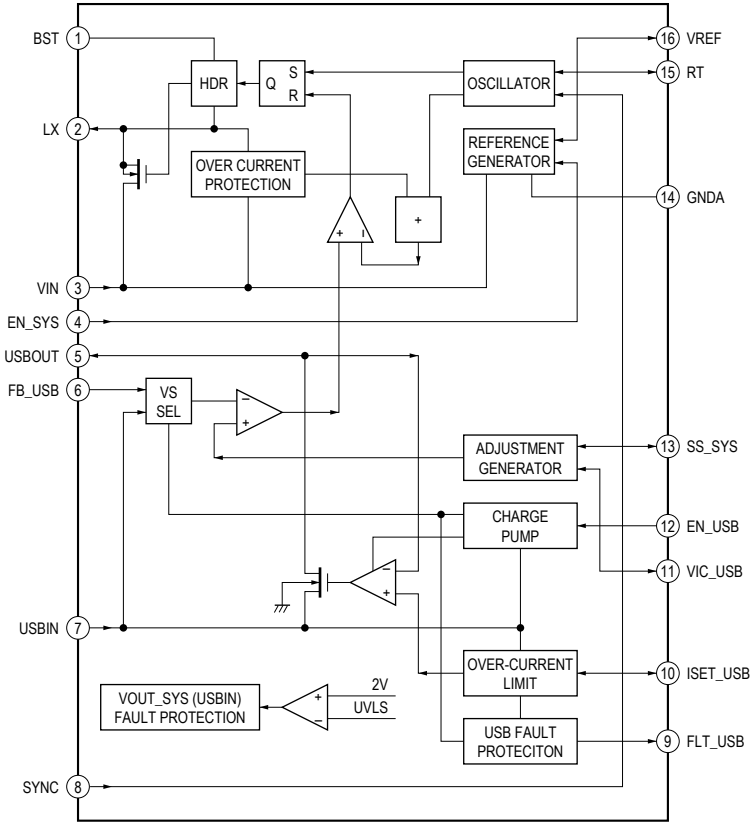
IC402 MM1836A33NRE



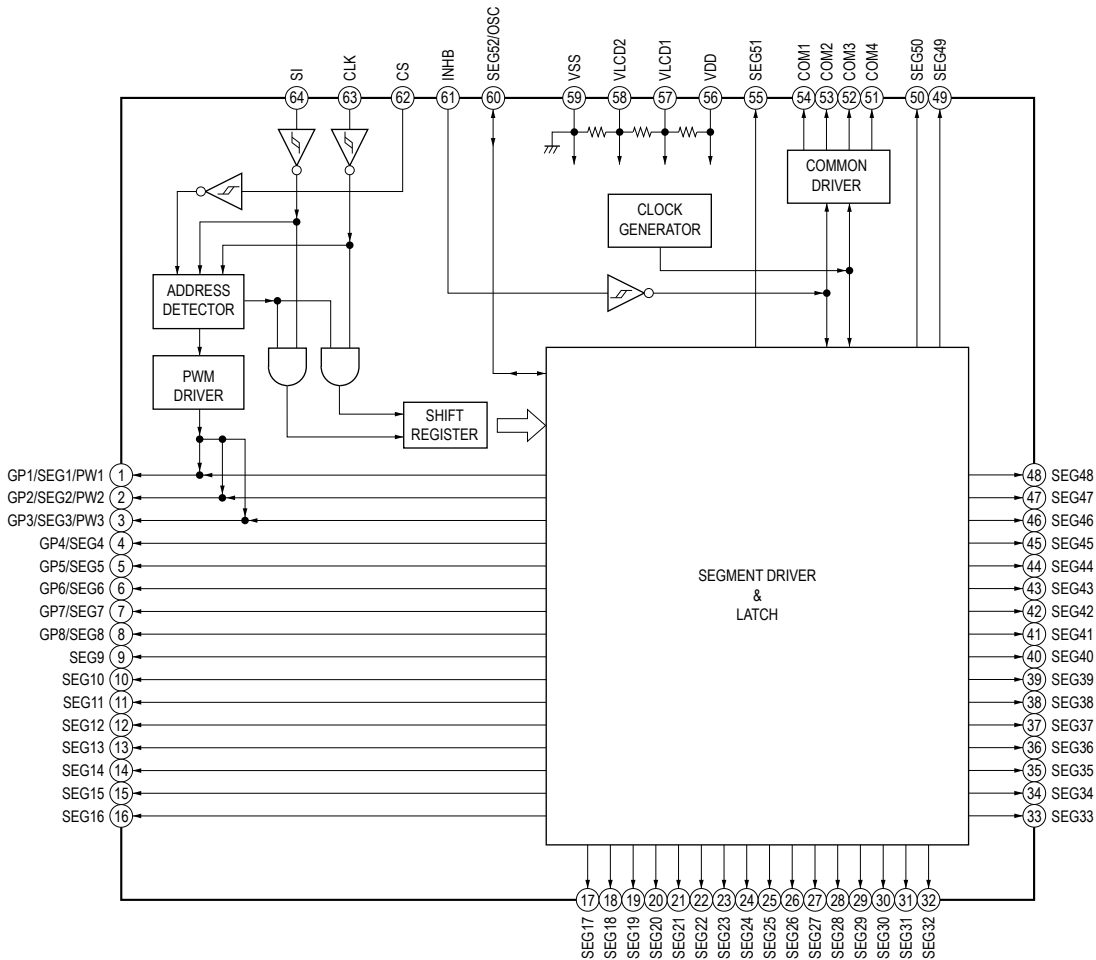
IC603 BU33TD3WG-TR
IC681, 682 BU15TD3WG-TR



IC1300 OZ539IGN-A1-0-TR



**- KEY Board -
IC901 PT16512-LQ**



• **IC Pin Function Description**

**MAIN BOARD IC501 R5F3650ECDZ98FB (MAIN SYSTEM CONTROLLER) (BT4100E/BT4100U/BT4150U)
IC501 R5F3650KCDZ95FB (MAIN SYSTEM CONTROLLER) (BT4100P)**

Pin No.	Pin Name	I/O	Description
1	NOSE_SW	I	Front panel remove/attach detection signal input terminal "L": Front panel is attached
2	SIRCS	I	Remote control signal input from the remote control signal receiver
3	UNISO	-	Not used
4	UNISI	-	Not used
5	UNISCK	-	Not used
6	BYTE	I	External data bus width select signal input Connect to VSS in this unit
7	CNVSS	I	Flash write signal input terminal Normally operation: "L", Flash write: "H"
8	XIN	I	Low speed operation clock signal input terminal (32.768 kHz)
9	XOUT	O	Low speed operation clock signal output terminal (32.768 kHz)
10	RESET	I	System reset signal input terminal Not used
11	OSCOU	O	High speed operation clock signal output terminal (7.92 MHz)
12	VSS	-	Ground terminal
13	OSCIN	I	High speed operation clock signal input terminal (7.92 MHz)
14	VCC1	-	Power supply terminal (+3.3V)
15	NMI	I	Non-maskable interrupt signal input terminal Fixed at "H" in this unit
16	MEC_SELF SW	I	Detection signal input from the CD section (self switch)
17	BUIN	I	Back up power supply detection signal input terminal "L" is input at low voltage
18	NCO	-	Not used
19	RC_IN1	I	Rotary remote commander shift key input terminal
20	MC_RX	I	Serial data input from the sub system controller
21	NCO	-	Not used
22	MC_TX	O	Serial data output to the sub system controller
23	NCO	-	Not used
24	SYNC_OUT	O	Synchronize signal output to the DC/DC converter
25	SYNC_PRE5V_ON	-	Not used
26	BEEP	O	Beep sound drive signal output to the power amplifier
27	I2C_SCK	O	IIC serial clock signal output terminal
28	I2C_SIO	I/O	IIC two-way serial data bus terminal
29	FW_TXD	O	Flash writer data output terminal
30	FW_RXD	I	Flash writer data input terminal
31	FW_CLK	I	Flash writer clock signal output terminal
32	FW_BUSY	O	Flash writer busy signal output terminal
33	XM_TX	O	Serial data output to the SIRIUSXM IN connector (BT4100P only)
34	XM_RX	I	Serial data input from the SIRIUSXM IN connector (BT4100P only)
35	XM_POWER_EN	O	Power supply on/off control signal output to the SIRIUSXM IN connector "H": power on (BT4100P only)
36 to 38	NCO	-	Not used
39	EPM	O	EPM signal output terminal Fixed at "L" in this unit
40	NCO	-	Not used
41	MEC_LOAD	O	Motor (Loading) signal output to the CD section
42	MEC_EJECT	O	Motor (Eject) signal output to the CD section
43	NCO	-	Not used
44	CE	I	Chip enable signal input terminal Fixed at "H" in this unit
45	HIT2_DATA	I/O	IIC two-way serial data bus with the tuner unit
46	HIT2_SCL	O	IIC serial clock signal output to the tuner unit
47	HIT2_RESET	O	Reset signal output to the tuner unit "L": reset
48 to 50	NCO	-	Not used
51	EN_SYS	O	Power supply on/off control signal output to the DC/DC converter "H": power on
52	IPOD	-	Not used
53, 54	NCO	-	Not used
55	ACC_IN	I	Accessory power detection signal input terminal "L": accessory power on
56	ATT	O	Muting on/off control signal output terminal "H": muting on
57	DIAG	I	Diagnostic signal input from the power amplifier
58	AMPSTB	O	Standby control signal output to the power amplifier
59	GHOST_RST	O	Reset signal output to the sub system controller "L": reset
60	VCC2	-	Power supply terminal (+3.3V)

Pin No.	Pin Name	I/O	Description
61	GHOST_1_5V	-	Not used
62	VSS	-	Ground terminal
63	DSP_RST	O	Reset signal output to the audio DSP "L": reset
64	DSP_SSTBY	O	SRAM standby mode control signal output to the audio DSP
65	DSP_1_5V	O	Power supply on/off control signal output terminal for the audio DSP "H": power on
66	NCO	-	Not used
67	GHOST_3_3V	O	Power supply on/off control signal output terminal for the sub system controller "H": power on
68	MEC_INSW	I	Detection signal input from the CD section (in switch)
69	MEC_DSW	I	Detection signal input from the CD section (D switch)
70	NCO	-	Not used
71	CD_XRST	I	Reset request signal input from the sub system controller "L": reset
72	MD_MUTE_IN	I	Muting request signal input from the sub system controller "H": muting on
73	BT_MUTE_IN	I	Bluetooth audio muting request signal input from the Bluetooth section "H": muting on
74	MUTE_PRE4V	-	Not used
75	MECON_CHECK	I	Power supply voltage detection terminal for CD mechanism section
76	DEBUG_3	-	Not used
77	DEBUG_1	-	Not used
78	DEBUG_2	-	Not used
79, 80	RE-IN1, RE-IN0	I	Jog dial pulse input from the rotary encoder
81	RE_ON	O	Jog dial pulse pull-up signal output terminal
82	RE_ON (RESERVE)	-	Not used
83 to 85	NCO	-	Not used
86	NA	-	Not apply
87, 88	NCO	-	Not used
89, 90	KEYACK0, KEYACK1	I	Acknowledge signal (wake up signal) input terminal
91	NCO	-	Not used
92, 93	KEYIN1, KEYIN0	I	Front panel key input terminal
94	AVSS	-	Ground terminal (for A/D converter)
95	RC_IN0	I	Rotary remote commander shift key input terminal
96	AVRH	I	Reference voltage (+3.3V) input terminal (for A/D converter)
97	AVDD	-	Power supply terminal (+3.3V) (for A/D converter)
98	NCO	-	Not used
99	DOWNLD_DET	I	Serial flash downloader status detection signal input terminal
100	BT_MIC_POWER	O	Power supply on/off control signal output terminal for the Bluetooth microphone "H": power on

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN BOARD IC601 TMPM320C1DFG-9999 (SUB SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	MODE1	I	Operation mode setting terminal Fixed at "L" in this unit
2	RESETn	I	Reset signal input terminal from the main system controller
3	DRV_ON	O	Driver control signal output to the CD section
4	BSIF_INT	I	Request signal input from the audio DSP
5	DEC_INT	I	Request signal input from the audio DSP
6	(DOOR_SW)	-	Not used
7	MEC_LIMIT	I	Detection signal input from the CD section (limit switch)
8	CD_XRST	O	Reset request signal output to the main system controller "L": reset
9	DEC_XMUTE	O	Muting on/off control signal output to the audio DSP
10	SF_WP	O	Write protect signal output to the serial flash
11	SF_HOLD	O	Hold signal output to the serial flash
12	DVCC3.3IO	-	Power supply terminal (+3.3V)
13	DVSSCOM	-	Ground terminal
14	SP_CLK	O	Spectrum analyzer data transfer clock signal output to the audio DSP
15	SP_DATA	I	Spectrum analyzer data input from the audio DSP
16	CD_ZDET	I	Zero detection signal input from the audio DSP
17	A-ATT	O	Muting on/off control signal output to the main system controller
18	SF_SO	O	Serial data output to the serial flash
19	SF_SI	I	Serial data input from the serial flash
20	SF_CE	O	Chip enable signal output to the serial flash
21	SF_CLK	O	Serial data transfer clock signal output to the serial flash
22	BSIF_DATA	O	Audio data output to the audio DSP
23	BSIF_GATE	O	Gate signal output to the audio DSP
24	BSIF_LRCK	O	L/R sampling clock signal output to the audio DSP
25	BSIF_BCK	O	Bit clock signal output to the audio DSP
26	LCD_DO	O	Serial data output to the liquid crystal display driver
27	ILL_IN	I	Illuminate line detect signal input terminal
28	LCD_CE	O	Chip enable signal output to the liquid crystal display driver
29	LCD_CLK	O	Serial data transfer clock signal output to the liquid crystal display driver
30	DVCC3.3IO	-	Power supply terminal (+3.3V)
31	DVSSCOM	-	Ground terminal
32	DVCC1.2DRM	-	Power supply terminal (+1.2V)
33	DVCC1.2DRM	-	Power supply terminal (+1.2V)
34	DVSSCOM	-	Ground terminal
35	SWDCK	O	Debug terminal (for ICE) Not used
36	SWDIO	I/O	Debug terminal (for ICE) Not used
37 to 40	CD_BUS0 to CD_BUS3	O	Serial data output to the audio DSP
41	CD_BUCK	O	Serial data transfer clock signal output to the audio DSP
42	DVCC33IO	-	Power supply terminal (+3.3V)
43	DVCC3.3DRM	-	Power supply terminal (+3.3V)
44	DVSSCOM	-	Ground terminal
45	CD_XCCE	O	Chip enable signal output to the audio DSP
46	USB_EN	-	Not used
47	CP_SEL	I	EEPROM setting terminal "H": EEPROM use
48	DVCC1.2	-	Power supply terminal (+1.2V)
49	BT_TX	O	Serial data output to the Bluetooth section
50	BT_RX	I	Serial data input from the Bluetooth section
51	BT_CTS	I	Clear to send signal input from the Bluetooth section
52	BT_RTS	O	Return to send signal output to the Bluetooth section
53	DVSS_COM	-	Ground terminal
54	BT_POWER	O	Power supply on/off control signal output terminal for the Bluetooth section "H": power on
55	BT_RESET	O	Reset signal output to the Bluetooth section "L": reset
56	BT_MIC_DET	I	Bluetooth microphone detection signal input terminal "L": microphone is connected
57	CP_RESET	O	Reset signal output terminal Not used
58	MC_TX	O	Serial data output to the main system controller
59	MC_RX	I	Serial data input from the main system controller
60	I2C_SCL	O	Serial data transfer clock signal output to the EEPROM

Pin No.	Pin Name	I/O	Description
61	I2C_SDA	I/O	Two-way data bus with the EEPROM
62	DVCC1.2	-	Power supply terminal (+1.2V)
63 to 68	D0 to D5	I/O	Two-way data bus terminal Not used
69	DVSSCOM	-	Ground terminal
70	D6	I/O	Two-way data bus terminal Not used
71	DVCC3.3IO	-	Power supply terminal (+3.3V)
72 to 80	D7 to D15	I/O	Two-way data bus terminal Not used
81, 82	A0, A1	O	Address signal output terminal Not used
83	DVSSCOM	-	Ground terminal
84 to 86	A2 to A4	O	Address signal output terminal Not used
87	DVCC1.2	-	Power supply terminal (+1.2V)
88	DVCC3.3IO	-	Power supply terminal (+3.3V)
89 to 97	A5 to A13	O	Address signal output terminal Not used
98	DVSSCOM	-	Ground terminal
99 to 103	A14 to A18	O	Address signal output terminal Not used
104	DVCC3.3IO	-	Power supply terminal (+3.3V)
105 to 108	DT10_DATA1 to DT10_DATA4	-	Not used
109	OE	O	Output enable signal output Not used
110	WE	O	Write enable signal output Not used
111	DT10_CLK	-	Not used
112	DT10_CE	-	Not used
113	DOWNLD_DET	O	Serial flash downloader status detection signal output terminal
114	NCO	-	Not used
115	USB1_OVR	I	USB over current detection signal input from the DC/DC converter "L": over current
116	USB1_ON	O	Power supply on/off control signal output to the DC/DC converter "H": power on
117	DVCC1.2	-	Power supply terminal (+1.2V)
118	DVSSCOM	-	Ground terminal
119	DVSSPULL	-	Ground terminal
120	DVCC1.2PULL	-	Power supply terminal (+1.2V)
121	DVCC1.2	-	Power supply terminal (+1.2V)
122	DVSSCOM	-	Ground terminal
123	AVDD3.3USB	-	Power supply terminal (+3.3V)
124	AVSS3.3USB	-	Ground terminal
125	DP	I/O	Two-way USB data (positive) with the USB connector
126	TXRTUNE	I	External resistor connection terminal for USB
127	DM	I/O	Two-way USB data (negative) with the USB connector
128	AVSS3.3USB	-	Ground terminal
129	AVDD3.3USB	-	Power supply terminal (+3.3V)
130	XO	O	System clock output terminal (12 MHz)
131	AVSS3.3USBC	-	Ground terminal
132	XI	I	System clock input terminal (12 MHz)
133	DVSSUSB	-	Ground terminal
134	DVDD1.2USB	-	Power supply terminal (+1.2V)
135	ANALOGTEST	-	Not used
136	DVSSCOM	-	Ground terminal
137	DVCC1.2	-	Power supply terminal (+1.2V)
138 to 141	(N.C.)	-	Not used
142	AVSSADC	-	Ground terminal
143	AVDD3.3DC	-	Power supply terminal (+3.3V)
144	MODE0	I	Operation mode setting terminal Fixed at "L" in this unit

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN BOARD IC701 TC94A99FG-003 (SY, H (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 (+3.3V)
7	SLCO	O	EFM slice level output terminal
8	RFI	I	RF signal input terminal
9	RFRPI	I	RF ripple signal input terminal
10	RFEQO	O	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
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
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 (+3.3V)
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 main system controller "L": standby mode
38	VDD1-2	-	Power supply terminal (+1.5V)
39	VDD3-1	-	Power supply terminal (+3.3V)
40 to 50	PIO10 to PIO20	-	Not used
51	DVDD12	-	Power supply terminal (+3.3V)
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 (+3.3V)
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 (+3.3V)
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 (+3.3V)

Pin No.	Pin Name	I/O	Description
69	ADVDD3	-	Power supply terminal (+3.3V)
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 to 80	CD_BUS0 to CD_BUS3	I	Serial data input from the sub system controller
81	CD_BUCK	I	Serial data transfer clock signal input from the sub system controller
82	CD_XCCE	I	Chip enable signal input from the sub system controller
83	VDD3-2	-	Power supply terminal (+3.3V)
84	VSS-3	-	Ground terminal
85	/RST	I	Reset signal input from the main system controller
86	VDD1-4	-	Power supply terminal (+1.5V)
87	DEC_INT	O	Request signal output to the sub system controller
88	BSIF_INT	O	Request signal output to the sub system controller
89	BSIF_GATE	I	Gate signal input from the sub system controller
90	BSIF_DATA	I	Audio data input from the sub system controller
91	BSIF_BCK	I	Bit clock signal input from the sub system controller
92	BSIF_LRCK	I	L/R sampling clock signal (44.1 kHz) input terminal for audio data input
93	DEC_XMUTE	I	Muting on/off control signal input from the sub system controller
94	ZDET	O	Zero detection signal output terminal
95	SP_DATA	O	Spectrum analyzer data output to the sub system controller
96	SP_CLK	I	Spectrum analyzer data transfer clock signal input from the sub 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

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

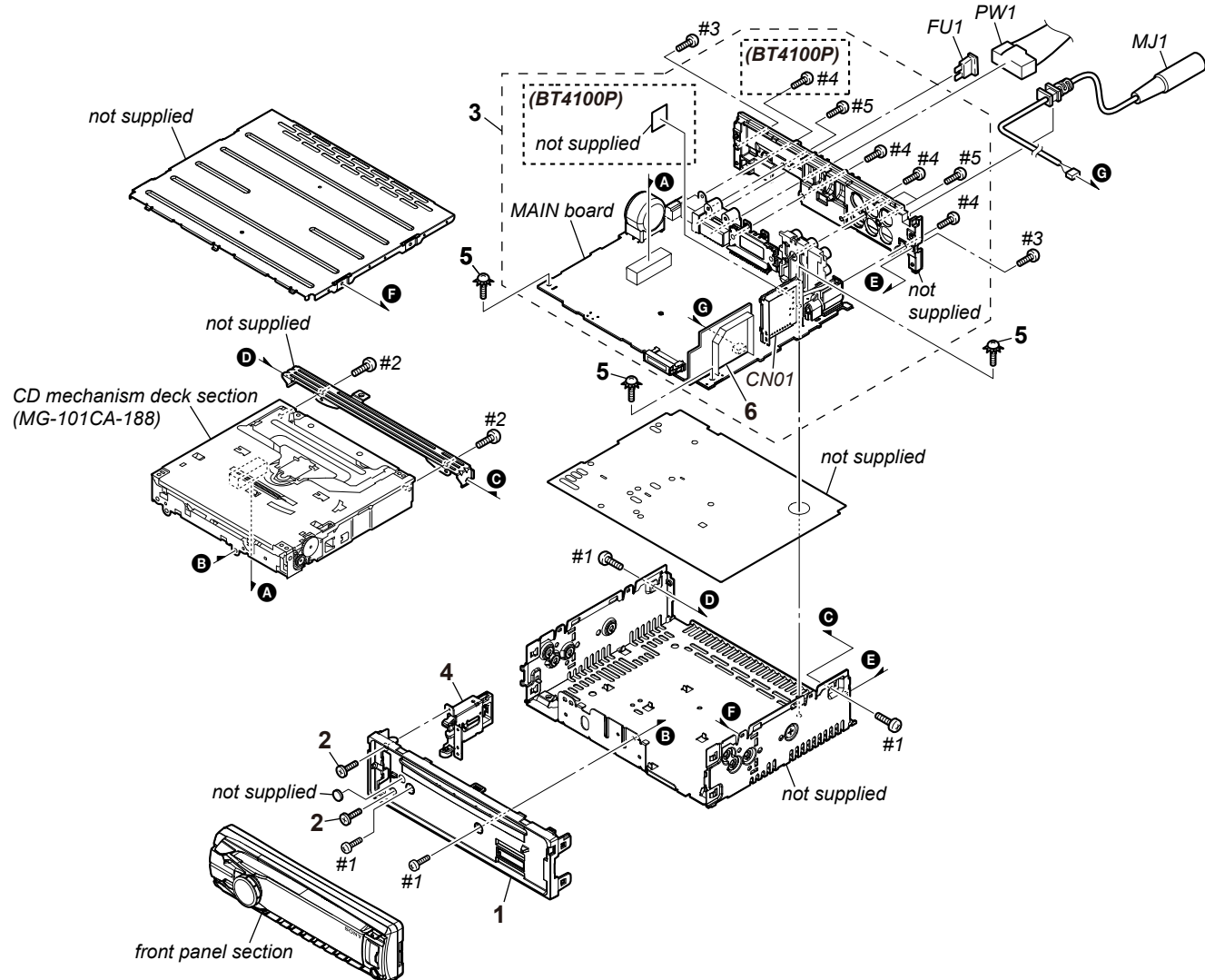
- Abbreviation
CND : Canadian model
EA : Saudi Arabia model

- MX : Mexican model
RU : Russian model

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

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

6-1. MAIN SECTION



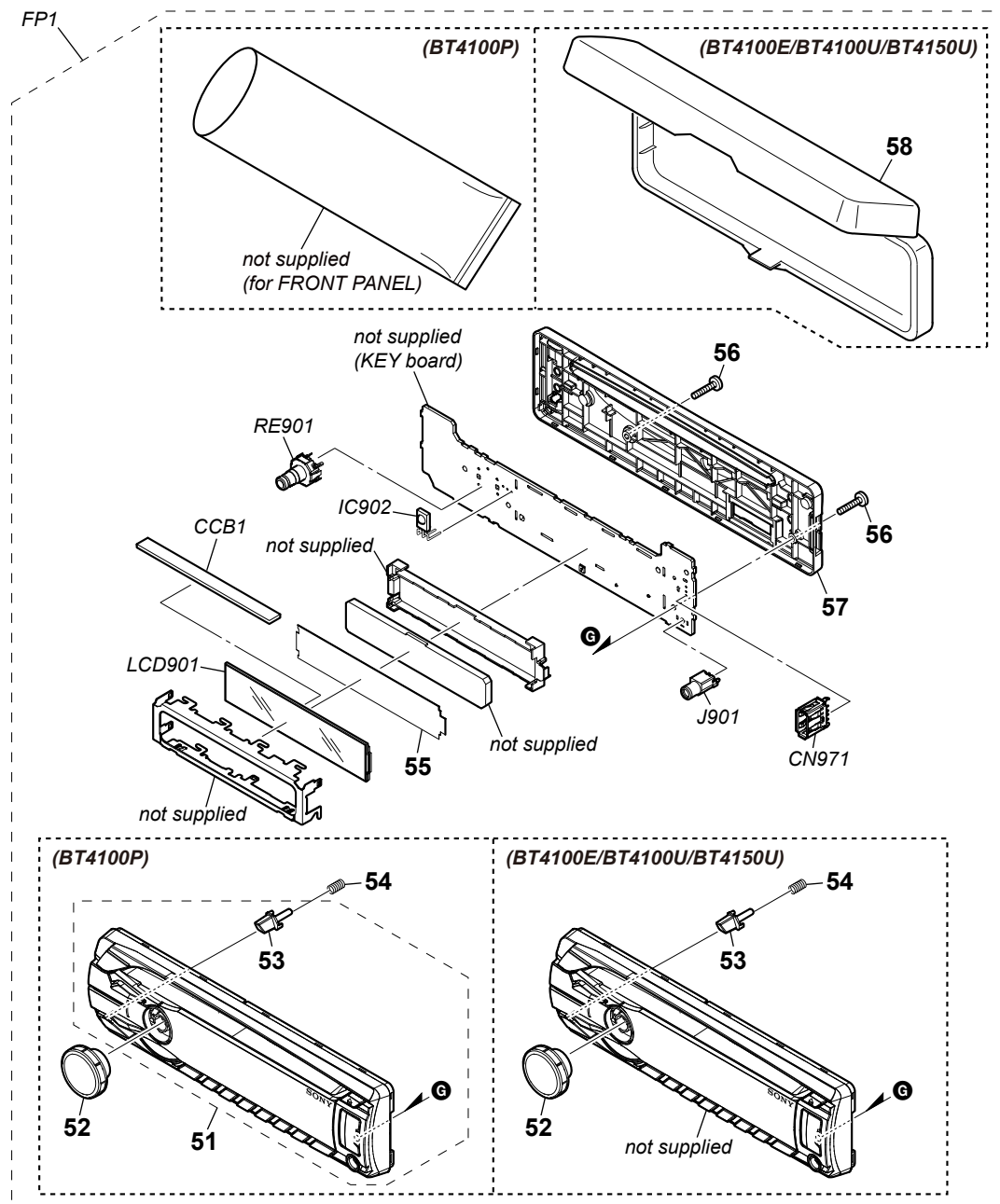
Note 1: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4.

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

Ref. No.	Part No.	Description	Remark
1	X-2581-176-3	PANEL ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	A-1890-750-A	MAIN BOARD, COMPLETE (Including BT board)	(BT4100U)
3	A-1890-751-A	MAIN BOARD, COMPLETE (Including BT board)	(BT4100P)
3	A-1890-752-A	MAIN BOARD, COMPLETE (Including BT board)	(BT4100E/BT4150U: EA)
3	A-1890-753-A	MAIN BOARD, COMPLETE (Including BT board)	(BT4150U: E, MX)
4	X-2547-583-4	LOCK ASSY (T)	
5	4-410-504-01	SCREW (+PTT 2.6X6), GROUND POINT	
6	A-1888-219-A	BT BOARD, COMPLETE (Included in MAIN board)	

Ref. No.	Part No.	Description	Remark
	CN01	A-1878-198-A	TUX-DSP02 (TUNER UNIT)
	FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)
	MJ1	1-846-310-11	CABLE, CONNECTION (MIC) (MIC IN)
	PW1	1-846-033-11	CONNECTION CABLE (ISO) (POWER)
	PW1	1-846-037-11	CONNECTION CABLE, AUTOMOBILE (POWER)
	#1	7-685-792-09	SCREW +PTT 2.6X6 (S)
	#2	7-685-790-01	SCREW +PTT 2.6X4 (S)
	#3	7-685-793-01	SCREW +PTT 2.6X8 (S)
	#4	7-685-794-01	SCREW +PTT 2.6X10 (S)
	#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT

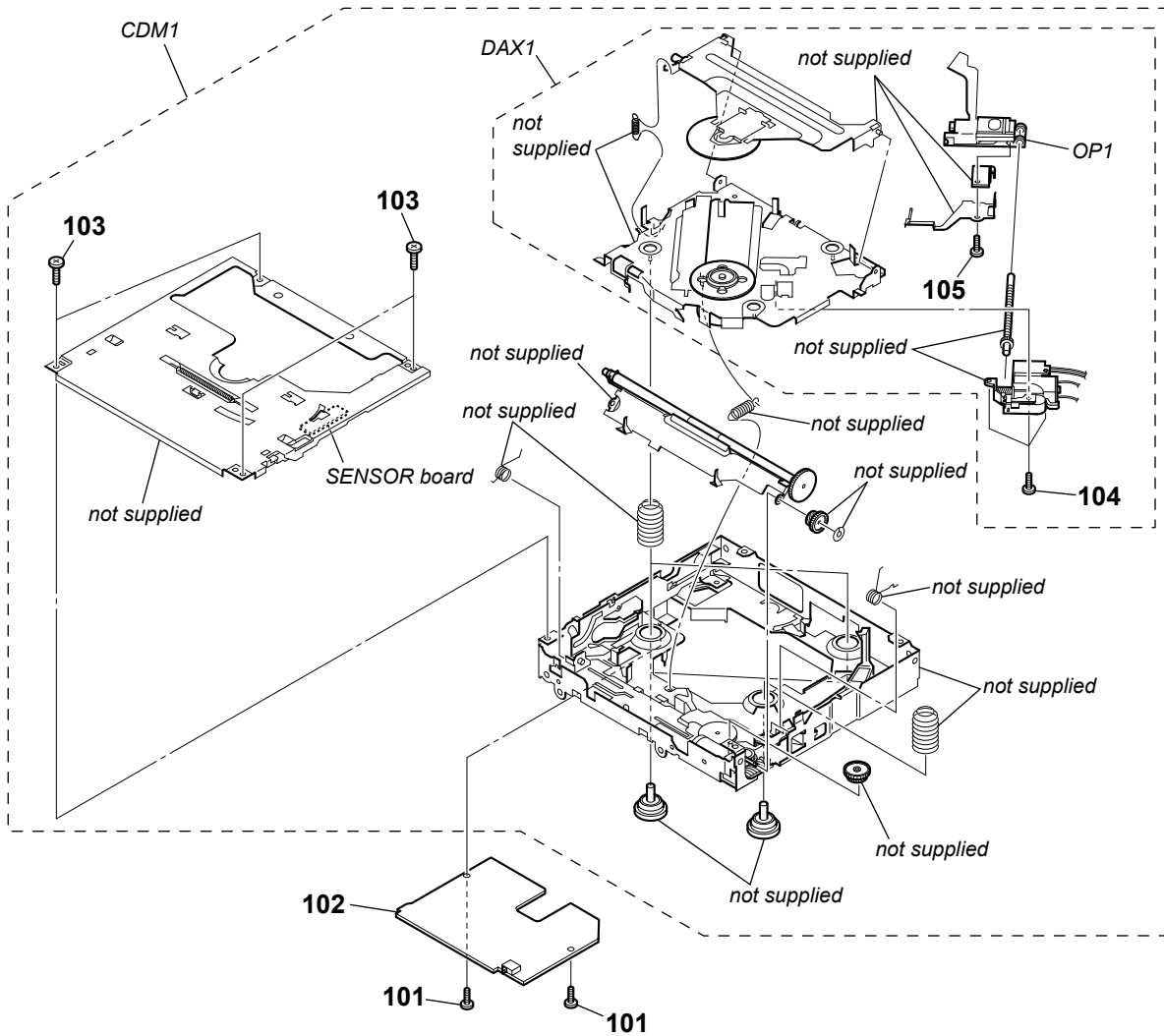
6-2. FRONT PANEL SECTION



Note: Refer to the servicing notes “NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)” on page 6, if replacing CN971 and J901.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2585-229-1	PANEL (SV) ASSY, FRONT (BT4100P)		FP1	A-1890-760-A	PANEL OVERALL ASSY, FRONT (BT4100U)	
52	X-2581-844-2	KNOB (VOL) (SV) ASSY		FP1	A-1890-761-A	PANEL OVERALL ASSY, FRONT (BT4100P)	
53	4-421-887-01	BUTTON (RELEASE)		FP1	A-1890-762-A	PANEL OVERALL ASSY, FRONT (BT4100E)	
54	4-447-770-01	SPRING (RELEASE)		FP1	A-1890-763-A	PANEL OVERALL ASSY, FRONT (BT4150U)	
55	4-278-080-11	ILLUMINATOR (LCD)		IC902	6-600-806-01	IC PNJ4813M01S0 (■)	
56	4-290-177-01	SCREW (+B P-TITE M2)		J901	1-842-936-12	JACK (SMALL TYPE) (DIA. 3.5) (AUX)	
57	4-421-879-01	PANEL, BACK		LCD901	1-811-485-11	DISPLAY PANEL, LIQUID CRYSTAL	
58	X-2187-544-5	CASE ASSY (BT4100E/BT4100U/BT4150U)		RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/MENU/APP (VOLUME))	
CCB1	1-780-968-11	CONDUCTIVE BOARD, CONNECTION					
CN971	1-822-798-11	USB CONNECTOR (ψ)					

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK		CDM1	A-1866-801-A	MECHANICAL BLOCK (11CA) ASSY (US, CND, AEP, RU, UK, E, MX)	
102	A-1866-089-A	SERVO BOARD, COMPLETE		CDM1	A-1922-404-A	MECHANICAL BLOCK (11CA2) ASSY (EA)	
103	2-134-636-71	SCREW (M1.7X2.5)		△ DAX1	A-1284-705-A	DAXEV08	
104	2-626-869-31	SCREW (M2X3), SERRATION		△ OP1	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)	
105	3-686-458-21	SCREW (P1.4), TAPPING					

MEX-BT4100E/BT4100P/BT4100U/BT4150U
SECTION 7
ELECTRICAL PARTS LIST

Ver. 1.1

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: μ F
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .
- Abbreviation
CND : Canadian model
EA : Saudi Arabia model
MX : Mexican model
RU : Russian model

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1888-219-A	BT BOARD, COMPLETE (Included in MAIN board) *****				< LED >	
When the BT board is defective, exchange the complete mounted board. *****				LED900	6-503-871-01	LED SMLVN6RGB1U1 (LCD BACK LIGHT)	
				LED902	6-503-871-01	LED SMLVN6RGB1U1 (RING ILLUMINATION)	
				LED903	6-503-871-01	LED SMLVN6RGB1U1 (KEY ILLUMINATION)	
		KEY BOARD *****				< TRANSISTOR >	
		< CAPACITOR >		Q900	6-551-272-01	TRANSISTOR RT3CLLM	
C900	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		Q901	6-551-272-01	TRANSISTOR RT3CLLM	
C901	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V		Q902	6-551-272-01	TRANSISTOR RT3CLLM	
C905	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V		Q903	6-551-272-01	TRANSISTOR RT3CLLM	
C906	1-165-908-11	CERAMIC CHIP 1uF 10% 10V		Q904	6-551-272-01	TRANSISTOR RT3CLLM	
C907	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V		Q905	6-551-272-01	TRANSISTOR RT3CLLM	
C908	1-165-908-11	CERAMIC CHIP 1uF 10% 10V		Q906	6-551-272-01	TRANSISTOR RT3CLLM	
C909	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V		Q907	6-551-272-01	TRANSISTOR RT3CLLM	
C910	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V		Q908	6-551-272-01	TRANSISTOR RT3CLLM	
C911	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V				< RESISTOR >	
C912	1-162-918-11	CERAMIC CHIP 18PF 5% 50V		R900	1-216-810-11	METAL CHIP 120 5% 1/10W	
C913	1-162-918-11	CERAMIC CHIP 18PF 5% 50V		R901	1-216-809-11	METAL CHIP 100 5% 1/10W	
C914	1-162-918-11	CERAMIC CHIP 18PF 5% 50V		R903	1-216-810-11	METAL CHIP 120 5% 1/10W	
		< CONNECTOR >		R904	1-216-807-11	METAL CHIP 68 5% 1/10W	
CN901	1-842-265-22	PLUG, CONNECTOR 20P		R905	1-216-810-11	METAL CHIP 120 5% 1/10W	
		< DIODE >		R906	1-216-808-11	METAL CHIP 82 5% 1/10W	
D900	6-503-213-01	DIODE RKZ18B2KGP1		R907	1-216-812-11	METAL CHIP 180 5% 1/10W	
D903	6-503-205-01	DIODE RKZ6.8B2KGP1		R908	1-216-813-11	METAL CHIP 220 5% 1/10W	
D904	6-503-205-01	DIODE RKZ6.8B2KGP1		R909	1-216-810-11	METAL CHIP 120 5% 1/10W	
D905	6-503-205-01	DIODE RKZ6.8B2KGP1		R910	1-216-811-11	METAL CHIP 150 5% 1/10W	
D981	6-503-202-01	DIODE RKZ5.1B2KGP1		R911	1-216-810-11	METAL CHIP 120 5% 1/10W	
D982	6-502-961-01	DIODE DA2J10100L		R912	1-216-811-11	METAL CHIP 150 5% 1/10W	
		< FERRITE BEAD >		R913	1-216-811-11	METAL CHIP 150 5% 1/10W	
FB901	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R914	1-216-810-11	METAL CHIP 120 5% 1/10W	
FB902	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R915	1-216-807-11	METAL CHIP 68 5% 1/10W	
FB903	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R916	1-216-810-11	METAL CHIP 120 5% 1/10W	
		< IC >		R917	1-216-808-11	METAL CHIP 82 5% 1/10W	
IC901	6-718-828-02	IC PT16512-LQ		R922	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< COIL >		R923	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L901	1-457-223-11	COMMON MODE CHOKE COIL		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	
				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	

Note: When the complete BT board is replaced, it is necessary to confirm operation. Refer to "BLUETOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

Ver. 1.1

KEY **MAIN**

Ref. No.	Part No.	Description	Remark
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	1-216-810-11	METAL CHIP 120	5% 1/10W
R938	1-216-809-11	METAL CHIP 100	5% 1/10W
R939	1-216-809-11	METAL CHIP 100	5% 1/10W
R940	1-216-807-11	METAL CHIP 68	5% 1/10W
R941	1-216-807-11	METAL CHIP 68	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	1-218-952-11	METAL CHIP 820	5% 1/16W
R950	1-218-953-11	METAL CHIP 1K	5% 1/16W
R951	1-218-953-11	METAL CHIP 1K	5% 1/16W
R952	1-218-954-11	METAL CHIP 1.2K	5% 1/16W
R953	1-218-955-11	METAL CHIP 1.5K	5% 1/16W
R954	1-218-956-11	METAL CHIP 1.8K	5% 1/16W
R955	1-218-957-11	METAL CHIP 2.2K	5% 1/16W
R956	1-218-952-11	METAL CHIP 820	5% 1/16W
R957	1-218-953-11	METAL CHIP 1K	5% 1/16W
R958	1-218-953-11	METAL CHIP 1K	5% 1/16W
R959	1-218-954-11	METAL CHIP 1.2K	5% 1/16W
R960	1-218-955-11	METAL CHIP 1.5K	5% 1/16W
R961	1-218-956-11	METAL CHIP 1.8K	5% 1/16W
R962	1-218-957-11	METAL CHIP 2.2K	5% 1/16W
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	
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	1-798-448-11	TACTILE SWITCH (▲)	
S952	1-798-448-11	TACTILE SWITCH (■ OFF, SOURCE)	
S953	1-798-448-11	TACTILE SWITCH (SEEK+, ►►► ►►►)	
S954	1-798-448-11	TACTILE SWITCH (►, MODE)	
S955	1-798-448-11	TACTILE SWITCH (◀◀◀ ◀◀◀, SEEK-)	
S956	1-798-448-11	TACTILE SWITCH (Q)	
S957	1-798-448-11	TACTILE SWITCH (CALL, ☎)	
S959	1-798-448-11	TACTILE SWITCH (■ SCRL, DSPL)	
S960	1-798-448-11	TACTILE SWITCH (PAUSE, 6)	
S961	1-798-448-11	TACTILE SWITCH (MIC/ZAP, 5)	
S962	1-798-448-11	TACTILE SWITCH (SHUF, 4)	
S963	1-798-448-11	TACTILE SWITCH (☞, 3)	
S964	1-798-448-11	TACTILE SWITCH (ALBUM ▲, 2)	
S965	1-798-448-11	TACTILE SWITCH (▼ ALBUM, 1)	

Ref. No.	Part No.	Description	Remark
S966	1-798-448-11	TACTILE SWITCH (■ PTY, AF/TA)	(BT4100E/BT4100U)
S966	1-798-448-11	TACTILE SWITCH (CAT, PTY)	(BT4100P)
S966	1-798-448-11	TACTILE SWITCH (PTY)	(BT4150U)

	A-1890-750-A	MAIN BOARD, COMPLETE	(BT4100U)
	A-1890-751-A	MAIN BOARD, COMPLETE	(BT4100P)
	A-1890-752-A	MAIN BOARD, COMPLETE	(BT4100E/BT4150: EA)
	A-1890-753-A	MAIN BOARD, COMPLETE	(BT4150: E, MX)

(Including BT board)			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
	7-685-794-01	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	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
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
C104	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C105	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C106	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C158	1-116-733-11	CERAMIC CHIP 1uF	10% 25V
C201	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C301	1-127-715-11	CERAMIC CHIP 0.22uF	10% 16V
C302	1-116-733-11	CERAMIC CHIP 1uF	10% 25V
C303	1-100-966-91	CERAMIC CHIP 10uF	20% 10V
C305	1-116-733-11	CERAMIC CHIP 1uF	10% 25V
C306	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C307	1-128-394-11	ELECT CHIP 220uF	20% 10V
C308	1-112-863-91	CERAMIC CHIP 0.22uF	10% 10V
C309	1-100-354-21	ELECT CHIP 220uF	20% 6.3V
C311	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C313	1-137-765-21	ELECT CHIP 47uF	20% 16V
C314	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V
C315	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V
C317	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V
C319	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V
C320	1-100-966-91	CERAMIC CHIP 10uF	20% 10V
C321	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V
C323	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C324	1-162-923-11	CERAMIC CHIP 47PF	5% 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	1-112-839-11	ELECT 4700uF	20% 16V
C335	1-114-868-11	CERAMIC CHIP 0.1uF	10% 50V
C351	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C352	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C353	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C354	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C355	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C356	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C357	1-164-866-11	CERAMIC CHIP 47PF	5% 50V

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C358	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C522	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C359	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C523	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C364	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C601	1-164-852-11	CERAMIC CHIP 12PF	5% 50V
C365	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C602	1-164-852-11	CERAMIC CHIP 12PF	5% 50V
C366	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C603	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C367	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C605	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C387	1-128-398-11	ELECT CHIP 220uF	20% 16V	C606	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C398	1-100-905-11	CERAMIC CHIP 0.001uF	10% 50V	C607	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C399	1-100-591-91	CERAMIC CHIP 1uF	10% 25V	C608	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C401	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	C615	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C402	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C616	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C403	1-100-354-21	ELECT CHIP 220uF	20% 6.3V	C617	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C407	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C618	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C411	1-127-931-21	ELECT CHIP 470uF	20% 16V	C619	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C412	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C620	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C413	1-124-779-00	ELECT CHIP 10uF	20% 16V	C621	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C414	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C622	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C416	1-128-992-21	ELECT CHIP 47uF	20% 25V	C623	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C419	1-100-966-91	CERAMIC CHIP 10uF	20% 10V	C624	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C420	1-124-779-00	ELECT CHIP 10uF	20% 16V	C625	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C421	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C627	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C422	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	C628	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C423	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C629	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C424	1-124-779-00	ELECT CHIP 10uF	20% 16V	C662	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C425	1-124-779-00	ELECT CHIP 10uF	20% 16V	C664	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C426	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C666	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C431	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C668	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C432	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C686	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C434	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C687	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C435	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C688	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C436	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C689	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C437	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C690	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V
C438	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C701	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C439	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C702	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C440	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C703	1-116-733-11	CERAMIC CHIP 1uF	10% 25V
C442	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C704	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C446	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C705	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C450	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C711	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C451	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V	C712	1-126-208-21	ELECT CHIP 47uF	20% 4V
C452	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C713	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V
C457	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C714	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V
C480	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C715	1-164-935-11	CERAMIC CHIP 470PF	10% 50V
C481	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C716	1-164-935-11	CERAMIC CHIP 470PF	10% 50V
C499	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C717	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C502	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C718	1-127-772-81	CERAMIC CHIP 0.033uF	10% 10V
C504	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C719	1-164-172-11	CERAMIC CHIP 0.0056uF	10% 25V
C507	1-164-858-11	CERAMIC CHIP 22PF	5% 50V	C720	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C508	1-164-858-11	CERAMIC CHIP 22PF	5% 50V	C721	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C509	1-164-848-11	CERAMIC CHIP 8PF	0.5PF 50V	C722	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C510	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C724	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C511	1-164-848-11	CERAMIC CHIP 8PF	0.5PF 50V	C725	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
C512	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C726	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C513	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	C727	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C514	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C728	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C518	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V	C729	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C520	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C730	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C521	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C732	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
				C733	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
				C734	1-164-860-11	CERAMIC CHIP 27PF	5% 50V
				C735	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V

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MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C737	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C1312	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C738	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C1315	1-100-055-21	CERAMIC CHIP 22uF	20% 16V
C739	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	C1316	1-112-298-91	CERAMIC CHIP 1uF	10% 16V
C742	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C1318	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C744	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V				
C746	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C1320	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C747	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V	C1325	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C748	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V	C1326	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C750	1-126-603-11	ELECT CHIP 4.7uF	20% 35V	C1327	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C751	1-126-603-11	ELECT CHIP 4.7uF	20% 35V			< TUNER UNIT/CONNECTOR >	
C752	1-126-603-11	ELECT CHIP 4.7uF	20% 35V	CN01	A-1878-198-A	TUX-DSP02 (TUNER UNIT)	
C753	1-126-603-11	ELECT CHIP 4.7uF	20% 35V	CN102	1-842-266-22	SOCKET, CONNECTOR 20P	
C754	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	CN301	1-843-330-11	PIN, CONNECTOR 16P	
C756	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	CN700	1-842-487-12	CONNECTOR, BOARD TO BOARD 28P	
C757	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	CN802	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (BT4100P)	
C759	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V			< DIODE >	
C760	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	D114	6-503-205-01	DIODE RKZ6.8B2KGP1	
C761	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	D115	6-503-205-01	DIODE RKZ6.8B2KGP1	
C767	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D119	6-503-205-01	DIODE RKZ6.8B2KGP1	
C768	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D306	6-503-238-01	DIODE GN1G (BT4100U)	
C771	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	D307	6-503-213-01	DIODE RKZ18B2KGP1	
C772	1-127-988-81	CERAMIC CHIP 0.015uF	10% 16V				
C776	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	D308	6-502-961-01	DIODE DA2J10100L	
C777	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	D318	6-503-238-01	DIODE GN1G	
C778	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D321	6-503-238-01	DIODE GN1G	
C779	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	D323	6-503-213-01	DIODE RKZ18B2KGP1	
C780	1-100-579-81	CERAMIC CHIP 0.0056uF	10% 25V	D324	6-503-238-01	DIODE GN1G	
C781	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V				
C782	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	D401	6-502-961-01	DIODE DA2J10100L	
C783	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D530	6-503-759-01	DIODE RB751V40, 115	
C784	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V	D602	6-503-759-01	DIODE RB751V40, 115	
C786	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	D805	6-503-206-01	DIODE RKZ7.5B2KGP1	
C787	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	D806	6-503-213-01	DIODE RKZ18B2KGP1	
C788	1-115-416-11	CERAMIC CHIP 0.001uF	5% 25V				
C789	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V	D820	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)	
C792	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D830	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)	
C794	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D831	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)	
C796	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D832	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)	
C797	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	D1300	6-503-319-01	DIODE DB2X41400L	
C798	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V			< FUSE >	
C801	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	F3	1-576-415-11	FUSE (2 A/32 V) (BT4100P)	
C802	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V			< FERRITE BEAD/JUMPER RESISTOR >	
C830	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V (BT4100P)	FB19	1-400-334-21	FERRITE, EMI (SMD) (1608) (BT4100P)	
C831	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V (BT4100P)	FB306	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
C876	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V (BT4100P)	FB314	1-481-051-21	BEAD, FERRITE (CHIP) (1608)	
C877	1-164-874-11	CERAMIC CHIP 100PF	5% 50V (BT4100P)	FB398	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
C878	1-164-874-11	CERAMIC CHIP 100PF	5% 50V (BT4100P)	FB404	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1301	1-100-591-91	CERAMIC CHIP 1uF	10% 25V	FB405	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1304	1-116-705-11	CERAMIC CHIP 47uF	20% 16V	FB406	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1305	1-100-055-21	CERAMIC CHIP 22uF	20% 16V	FB407	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1306	1-164-936-11	CERAMIC CHIP 680PF	10% 50V	FB408	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1307	1-164-943-81	CERAMIC CHIP 0.01uF	10% 16V	FB410	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1308	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V				
C1309	1-114-323-11	CERAMIC CHIP 0.01uF	10% 50V	FB411	1-400-632-21	BEAD, FERRITE (1005)	
C1310	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	FB412	1-400-632-21	BEAD, FERRITE (1005)	
C1311	1-117-681-11	ELECT CHIP 100uF	20% 16V	FB413	1-400-632-21	BEAD, FERRITE (1005)	
				FB414	1-400-632-21	BEAD, FERRITE (1005)	
				FB415	1-400-632-21	BEAD, FERRITE (1005)	
				FB416	1-481-051-21	BEAD, FERRITE (CHIP) (1608)	
				FB420	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
				FB501	1-414-595-11	INDUCTOR, FERRITE BEAD	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB722	1-218-990-81	SHORT CHIP	0	R19	1-216-864-11	SHORT CHIP	0 (BT4100E/BT4100U/BT4150U)
FB724	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)		R100	1-216-864-11	SHORT CHIP	0
FB782	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)		R101	1-216-296-11	SHORT CHIP	0
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R102	1-216-864-11	SHORT CHIP	0
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R107	1-216-296-11	SHORT CHIP	0
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R116	1-216-864-11	SHORT CHIP	0
FB890	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R200	1-216-864-11	SHORT CHIP	0
FB891	1-500-113-22	BEAD, FERRITE (CHIP) (1608)		R201	1-216-295-91	SHORT CHIP	0
FB1301	1-216-864-11	SHORT CHIP	0	R203	1-216-864-11	SHORT CHIP	0
		< IC >		R300	1-216-296-11	SHORT CHIP	0
IC301	6-715-848-21	IC TDF8556AJ/N5		R301	1-218-941-81	METAL CHIP	100 5% 1/16W
IC401	6-714-623-01	IC BD3467FV-E2		R302	1-218-941-81	METAL CHIP	100 5% 1/16W
IC402	6-716-993-01	IC MM1836A33NRE		R303	1-216-182-00	METAL CHIP	220 5% 1/8W
IC501	6-719-019-02	IC R5F3650ECDZ98FB (for SERVICE) (BT4100E/BT4100U/BT4150U)		R304	1-216-182-00	METAL CHIP	220 5% 1/8W
IC501	6-719-022-02	IC R5F3650KCDZ95FB (for SERVICE) (BT4100P)		R305	1-216-182-00	METAL CHIP	220 5% 1/8W
IC601	6-715-714-01	IC TMPM320C1DFG-9999		R306	1-216-182-00	METAL CHIP	220 5% 1/8W
IC602	6-719-044-02	IC W25Q16CVSSIG-A02 (for SERVICE)		R307	1-218-943-11	METAL CHIP	150 5% 1/16W
IC603	6-717-694-01	IC BU33TD3WG-TR		R308	1-216-864-11	SHORT CHIP	0
IC681	6-716-355-01	IC BU15TD3WG-TR		R309	1-218-973-11	METAL CHIP	47K 5% 1/16W
IC682	6-716-355-01	IC BU15TD3WG-TR		R310	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
IC701	6-715-712-11	IC TC94A99FG-003 (SY, H)		R311	1-216-073-91	METAL CHIP	10K 5% 1/10W
IC703	6-715-716-01	IC S-1206B12-U3T1G		R312	1-218-973-11	METAL CHIP	47K 5% 1/16W
IC704	6-718-324-01	IC MFI337S3959		R313	1-218-973-11	METAL CHIP	47K 5% 1/16W
IC830	6-710-376-01	IC 74LVC1G17GW-125 (BT4100P)		R314	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
IC831	6-709-182-01	IC TC7WH126FK (BT4100P)		R315	1-218-969-11	METAL CHIP	22K 5% 1/16W
IC1300	6-718-913-01	IC OZ539IGN-A1-0-TR		R316	1-218-977-11	METAL CHIP	100K 5% 1/16W
		< JACK >		R317	1-216-214-00	METAL CHIP	4.7K 5% 1/8W
J1	1-843-172-11	JACK (ANT) (ANTENNA IN)		R322	1-216-296-11	SHORT CHIP	0
J403	1-822-714-21	JACK, PIN 6P (FRONT/REAR AUDIO OUT, SUB OUT (MONO))		R323	1-216-821-11	METAL CHIP	1K 5% 1/10W
J801	1-566-822-81	JACK (REMOTE IN)		R324	1-216-821-11	METAL CHIP	1K 5% 1/10W
		< COIL >		R325	1-216-821-11	METAL CHIP	1K 5% 1/10W
L1	1-400-073-21	INDUCTOR	4.7uH	R326	1-216-821-11	METAL CHIP	1K 5% 1/10W
L301	1-460-443-11	CHOKE COIL	140uH	R340	1-216-864-11	SHORT CHIP	0
L395	1-469-844-11	INDUCTOR	2.2uH	R378	1-216-073-91	METAL CHIP	10K 5% 1/10W
L431	1-469-844-11	INDUCTOR	2.2uH	R387	1-216-864-11	SHORT CHIP	0
L1301	1-457-630-11	COIL, CHOKE	47uH	R396	1-216-296-11	SHORT CHIP	0
		< TRANSISTOR >		R400	1-216-864-11	SHORT CHIP	0
Q301	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R404	1-218-945-11	METAL CHIP	220 5% 1/16W
Q302	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R405	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q401	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R407	1-218-945-11	METAL CHIP	220 5% 1/16W
Q402	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R409	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q403	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R410	1-218-945-11	METAL CHIP	220 5% 1/16W
Q404	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R411	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q405	6-552-937-01	TRANSISTOR	LTC014TUBFS8TL	R412	1-218-990-81	SHORT CHIP	0
Q407	6-552-922-01	TRANSISTOR	LTA014EUBFS8TL	R415	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q409	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL	R416	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q710	6-551-120-01	TRANSISTOR	2SA2119K	R417	1-218-966-11	METAL CHIP	12K 5% 1/16W
Q801	6-552-949-01	TRANSISTOR	LTC044EUBFS8TL	R418	1-218-966-11	METAL CHIP	12K 5% 1/16W
Q802	6-552-936-01	TRANSISTOR	LTC014EUBFS8TL	R419	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
Q803	6-552-892-01	TRANSISTOR	LSCR523UBFS8TL	R421	1-218-945-11	METAL CHIP	220 5% 1/16W
		< RESISTOR/CAPACITOR >		R422	1-216-833-11	METAL CHIP	10K 5% 1/10W
R10	1-218-990-81	SHORT CHIP	0	R423	1-218-945-11	METAL CHIP	220 5% 1/16W
R13	1-216-821-11	METAL CHIP	1K 5% 1/10W	R424	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R425	1-216-864-11	SHORT CHIP	0
				R426	1-216-296-11	SHORT CHIP	0
				R427	1-218-990-81	SHORT CHIP	0
				R429	1-218-933-11	METAL CHIP	22 5% 1/16W
				R432	1-218-965-11	METAL CHIP	10K 5% 1/16W
				R433	1-216-296-11	SHORT CHIP	0
				R434	1-216-295-91	SHORT CHIP	0

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

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R442	1-216-864-11	SHORT CHIP	0			R568	1-216-845-11	METAL CHIP	100K	5%	1/10W
R443	1-216-864-11	SHORT CHIP	0			R569	1-218-977-11	METAL CHIP	100K	5%	1/16W
R444	1-216-864-11	SHORT CHIP	0			R570	1-218-941-81	METAL CHIP	100	5%	1/16W
R445	1-216-864-11	SHORT CHIP	0			R572	1-218-941-81	METAL CHIP	100	5%	1/16W
R446	1-216-864-11	SHORT CHIP	0			R573	1-218-941-81	METAL CHIP	100	5%	1/16W
R462	1-216-864-11	SHORT CHIP	0			R575	1-218-977-11	METAL CHIP	100K	5%	1/16W
R463	1-216-864-11	SHORT CHIP	0			R576	1-218-977-11	METAL CHIP	100K	5%	1/16W
R464	1-216-864-11	SHORT CHIP	0			R577	1-218-977-11	METAL CHIP	100K	5%	1/16W
R465	1-216-864-11	SHORT CHIP	0			R578	1-218-965-11	METAL CHIP	10K	5%	1/16W
R466	1-216-864-11	SHORT CHIP	0			R579	1-218-965-11	METAL CHIP	10K	5%	1/16W
R468	1-216-864-11	SHORT CHIP	0			R580	1-218-977-11	METAL CHIP	100K	5%	1/16W
R469	1-216-864-11	SHORT CHIP	0			R581	1-218-977-11	METAL CHIP	100K	5%	1/16W
R470	1-216-864-11	SHORT CHIP	0			R582	1-218-971-11	METAL CHIP	33K	5%	1/16W
R471	1-216-864-11	SHORT CHIP	0			R583	1-220-200-81	METAL CHIP	30K	5%	1/16W
R472	1-216-864-11	SHORT CHIP	0			R584	1-218-977-11	METAL CHIP	100K	5%	1/16W
R473	1-216-864-11	SHORT CHIP	0			R587	1-218-990-81	SHORT CHIP	0		
R490	1-216-813-11	METAL CHIP	220	5%	1/10W	R588	1-218-977-11	METAL CHIP	100K	5%	1/16W
R491	1-216-813-11	METAL CHIP	220	5%	1/10W	R590	1-218-990-81	SHORT CHIP	0		
R492	1-216-813-11	METAL CHIP	220	5%	1/10W	R595	1-216-809-11	METAL CHIP	100	5%	1/10W
R493	1-216-813-11	METAL CHIP	220	5%	1/10W	R601	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R494	1-216-813-11	METAL CHIP	220	5%	1/10W	R602	1-216-857-11	METAL CHIP	1M	5%	1/10W
R495	1-216-813-11	METAL CHIP	220	5%	1/10W	R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R502	1-218-977-11	METAL CHIP	100K	5%	1/16W	R607	1-218-965-11	METAL CHIP	10K	5%	1/16W
R505	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R610	1-218-965-11	METAL CHIP	10K	5%	1/16W
R506	1-218-981-91	METAL CHIP	220K	5%	1/16W	R611	1-218-977-11	METAL CHIP	100K	5%	1/16W
R507	1-218-977-11	METAL CHIP	100K	5%	1/16W	R612	1-218-977-11	METAL CHIP	100K	5%	1/16W
R510	1-216-809-11	METAL CHIP	100	5%	1/10W	R614	1-218-941-81	METAL CHIP	100	5%	1/16W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W	R615	1-218-941-81	METAL CHIP	100	5%	1/16W
R514	1-250-519-11	METAL CHIP	10K	1%	1/16W	R616	1-218-977-11	METAL CHIP	100K	5%	1/16W
R515	1-250-519-11	METAL CHIP	10K	1%	1/16W	R619	1-216-813-11	METAL CHIP	220	5%	1/10W
R516	1-250-519-11	METAL CHIP	10K	1%	1/16W	R621	1-216-817-11	METAL CHIP	470	5%	1/10W
R517	1-218-953-11	METAL CHIP	1K	5%	1/16W	R623	1-216-813-11	METAL CHIP	220	5%	1/10W
R518	1-218-953-11	METAL CHIP	1K	5%	1/16W	R631	1-218-941-81	METAL CHIP	100	5%	1/16W
R521	1-218-971-11	METAL CHIP	33K	5%	1/16W	R632	1-218-941-81	METAL CHIP	100	5%	1/16W
R522	1-218-971-11	METAL CHIP	33K	5%	1/16W	R633	1-218-941-81	METAL CHIP	100	5%	1/16W
R523	1-218-941-81	METAL CHIP	100	5%	1/16W	R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R524	1-218-941-81	METAL CHIP	100	5%	1/16W	R635	1-218-941-81	METAL CHIP	100	5%	1/16W
R525	1-218-941-81	METAL CHIP	100	5%	1/16W	R636	1-218-941-81	METAL CHIP	100	5%	1/16W
R531	1-218-977-11	METAL CHIP	100K	5%	1/16W	R637	1-218-990-81	SHORT CHIP	0		
R535	1-218-949-11	METAL CHIP	470	5%	1/16W	R638	1-218-977-11	METAL CHIP	100K	5%	1/16W
R536	1-218-977-11	METAL CHIP	100K	5%	1/16W	R639	1-218-977-11	METAL CHIP	100K	5%	1/16W
R540	1-218-977-11	METAL CHIP	100K	5%	1/16W	R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R541	1-245-604-11	METAL CHIP	10M	5%	1/16W	R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-981-91	METAL CHIP	220K	5%	1/16W	R644	1-218-977-11	METAL CHIP	100K	5%	1/16W
R543	1-218-990-81	SHORT CHIP	0			R645	1-218-977-11	METAL CHIP	100K	5%	1/16W
R544	1-216-857-11	METAL CHIP	1M	5%	1/10W	R646	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R545	1-218-977-11	METAL CHIP	100K	5%	1/16W	R647	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R548	1-218-990-81	SHORT CHIP	0			R656	1-216-845-11	METAL CHIP	100K	5%	1/10W
R550	1-218-977-11	METAL CHIP	100K	5%	1/16W	R664	1-218-990-81	SHORT CHIP	0		
R552	1-218-941-81	METAL CHIP	100	5%	1/16W	R672	1-218-977-11	METAL CHIP	100K	5%	1/16W
R553	1-218-990-81	SHORT CHIP	0			R673	1-218-990-81	SHORT CHIP	0		
R554	1-218-977-11	METAL CHIP	100K	5%	1/16W	R674	1-218-977-11	METAL CHIP	100K	5%	1/16W
R555	1-218-990-81	SHORT CHIP	0			R677	1-218-990-81	SHORT CHIP	0		
R556	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R678	1-218-990-81	SHORT CHIP	0		
R557	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R679	1-218-965-11	METAL CHIP	10K	5%	1/16W
R560	1-218-977-11	METAL CHIP	100K	5%	1/16W	R680	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R561	1-218-990-81	SHORT CHIP	0			R682	1-218-990-81	SHORT CHIP	0		
R562	1-218-990-81	SHORT CHIP	0			R693	1-218-990-81	SHORT CHIP	0		
R563	1-218-941-81	METAL CHIP	100	5%	1/16W	R698	1-218-977-11	METAL CHIP	100K	5%	1/16W
R567	1-218-977-11	METAL CHIP	100K	5%	1/16W	R710	1-218-953-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description	Quantity	Power	Remark	Ref. No.	Part No.	Description	Quantity	Power	Remark
R711	1-218-929-11	METAL CHIP	10	5%	1/16W	R870	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (BT4100P)
R712	1-220-802-11	METAL CHIP	3.3	5%	1/16W						
R714	1-218-990-81	SHORT CHIP	0			R871	1-218-966-11	METAL CHIP	12K	5%	1/16W (BT4100P)
R715	1-216-864-11	SHORT CHIP	0			R872	1-218-966-11	METAL CHIP	12K	5%	1/16W (BT4100P)
R716	1-218-990-81	SHORT CHIP	0			R873	1-216-864-11	SHORT CHIP	0		(BT4100P)
R717	1-218-947-11	METAL CHIP	330	5%	1/16W	R874	1-216-821-11	METAL CHIP	1K	5%	1/10W (BT4100P)
R718	1-218-947-11	METAL CHIP	330	5%	1/16W	R875	1-216-821-11	METAL CHIP	1K	5%	1/10W (BT4100P)
R719	1-218-947-11	METAL CHIP	330	5%	1/16W						
R720	1-218-947-11	METAL CHIP	330	5%	1/16W	R899	1-216-295-91	SHORT CHIP	0		
R721	1-218-947-11	METAL CHIP	330	5%	1/16W	R1300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R722	1-218-989-11	METAL CHIP	1M	5%	1/16W	R1301	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	R1302	1-218-977-11	METAL CHIP	100K	5%	1/16W
R724	1-218-958-11	METAL CHIP	2.7K	5%	1/16W	R1305	1-218-965-11	METAL CHIP	10K	5%	1/16W
R725	1-218-958-11	METAL CHIP	2.7K	5%	1/16W	R1307	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R726	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1308	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R727	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1311	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R732	1-218-941-81	METAL CHIP	100	5%	1/16W	R1312	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R733	1-218-941-81	METAL CHIP	100	5%	1/16W	R1313	1-218-979-11	METAL CHIP	150K	5%	1/16W
R736	1-218-977-11	METAL CHIP	100K	5%	1/16W	R1314	1-216-296-11	SHORT CHIP	0		
R740	1-218-953-11	METAL CHIP	1K	5%	1/16W	R1315	1-218-965-11	METAL CHIP	10K	5%	1/16W
R741	1-218-941-81	METAL CHIP	100	5%	1/16W	R1316	1-218-977-11	METAL CHIP	100K	5%	1/16W
R742	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1320	1-218-953-11	METAL CHIP	1K	5%	1/16W
R743	1-218-967-11	METAL CHIP	15K	5%	1/16W			< VIBRATOR >			
R744	1-218-983-11	METAL CHIP	330K	5%	1/16W	X501	1-814-626-11	VIBRATOR, CRYSTAL (7.92 MHz)			
R745	1-218-941-81	METAL CHIP	100	5%	1/16W	X502	1-814-629-11	VIBRATOR, CRYSTAL (32.768 kHz)			
R746	1-218-990-81	SHORT CHIP	0			X601	1-814-304-11	VIBRATOR, CRYSTAL (12 MHz)			
R747	1-218-990-81	SHORT CHIP	0			X701	1-795-561-21	VIBRATOR, CERAMIC (16.934 MHz)			
R748	1-218-990-81	SHORT CHIP	0					*****			
R749	1-218-990-81	SHORT CHIP	0					SENSOR BOARD			
R750	1-218-969-11	METAL CHIP	22K	5%	1/16W			*****			
R751	1-218-969-11	METAL CHIP	22K	5%	1/16W			When the SENSOR board is defective, exchange the MECHANICAL BLOCK ASSY.			
R763	1-216-864-11	SHORT CHIP	0					*****			
R765	1-216-864-11	SHORT CHIP	0					A-1866-089-A	SERVO BOARD, COMPLETE		
R766	1-216-864-11	SHORT CHIP	0					*****			
R767	1-218-977-11	METAL CHIP	100K	5%	1/16W			When the SERVO board is defective, exchange the complete mounted board.			
R768	1-250-337-21	METAL CHIP	44.2	1%	1/10W			*****			
R770	1-218-941-81	METAL CHIP	100	5%	1/16W						
R790	1-216-864-11	SHORT CHIP	0								
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						
R831	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100P)			MISCELLANEOUS			
R833	1-218-975-11	METAL CHIP	68K	5%	1/16W (BT4100P)			*****			
R833	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100E/BT4100U/BT4150U)	CCB1	1-780-968-11	CONDUCTIVE BOARD, CONNECTION			
R834	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100P)	CDM1	A-1866-801-A	MECHANICAL BLOCK (11CA) ASSY (US, CND, AEP, RU, UK, E, MX)			
R836	1-216-801-11	METAL CHIP	22	5%	1/10W (BT4100P)	CDM1	A-1922-404-A	MECHANICAL BLOCK (11CA2) ASSY (EA)			
R837	1-216-864-11	SHORT CHIP	0		(BT4100P)	CN971	1-822-798-11	USB CONNECTOR (♁)			
R855	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)	△ DAX1	A-1284-705-A	DAXEV08			
R856	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)	FP1	A-1890-760-A	PANEL OVERALL ASSY, FRONT (BT4100U)			
R857	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)	FP1	A-1890-761-A	PANEL OVERALL ASSY, FRONT (BT4100P)			
R864	1-216-864-11	SHORT CHIP	0			FP1	A-1890-762-A	PANEL OVERALL ASSY, FRONT (BT4100E)			
						FP1	A-1890-763-A	PANEL OVERALL ASSY, FRONT (BT4150U)			
						FU1	1-523-227-11	MINI FUSE (BLADE TYPE) (10 A/32 V)			
						IC902	6-600-806-01	IC PNJ4813M01S0 (R)			
						J901	1-842-936-12	JACK (SMALL TYPE) (DIA. 3.5) (AUX)			
						LCD901	1-811-485-11	DISPLAY PANEL, LIQUID CRYSTAL			
						MJ1	1-846-310-11	CABLE, CONNECTION (MIC) (MIC IN)			
						△ OP1	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)			

Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" on page 6, if replacing CN971 and J901.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

Ver. 1.1

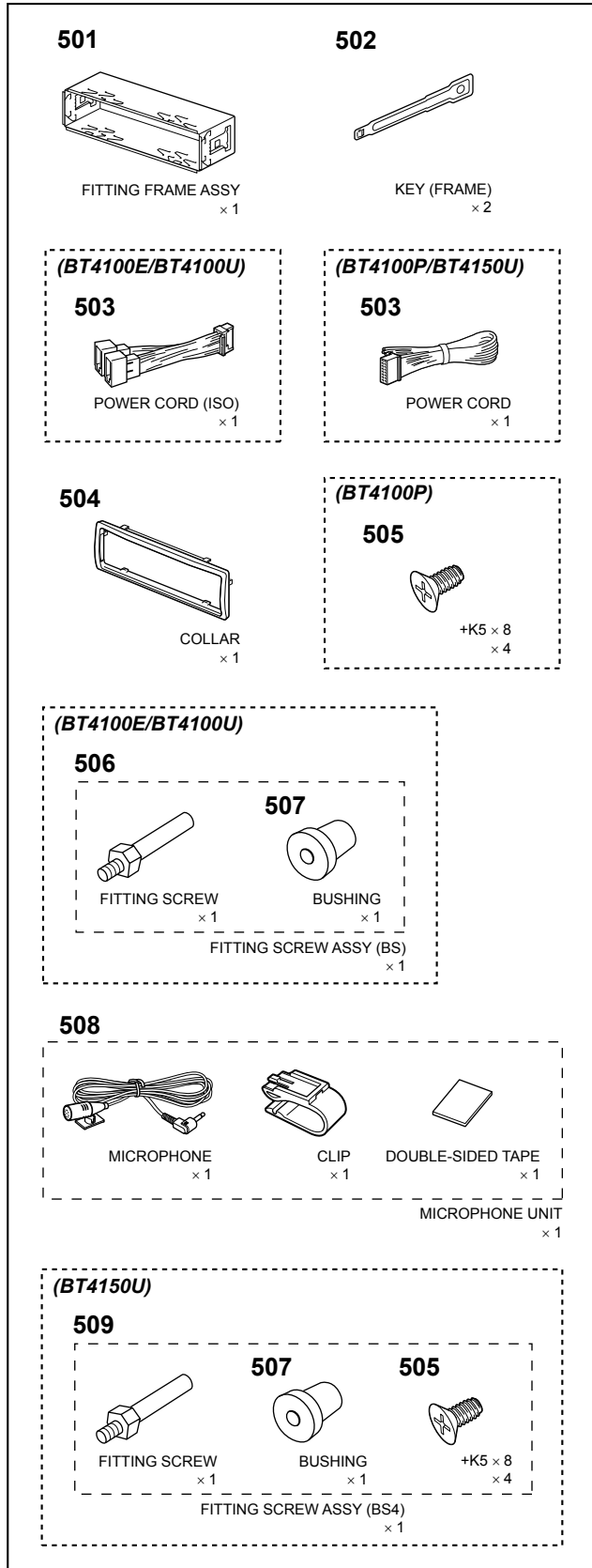
Ref. No.	Part No.	Description	Remark
PW1	1-846-033-11	CONNECTION CABLE (ISO) (POWER) (BT4100E/BT4100U)	
PW1	1-846-037-11	CONNECTION CABLE, AUTOMOBILE (POWER) (BT4100P/BT4150U)	
RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/MENU/APP (VOLUME))	

ACCESSORIES

1-489-810-41	REMOTE COMMANDER (RM-X231)
4-427-802-13	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (BT4100P)
4-427-802-22	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (BT4100U)
4-427-802-32	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (BT4100E)
4-427-802-41	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (BT4150U: E)
4-427-802-51	MANUAL, INSTRUCTION (ENGLISH, ARABIC, PERSIAN) (BT4150U: EA)
4-427-802-61	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (BT4150U: MX)
4-427-803-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (BT4100P)
4-427-803-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (BT4100U)
4-427-803-31	MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (BT4100E)
4-427-803-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (BT4150U: E, MX)
4-427-803-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC, PERSIAN) (BT4150U: EA)

PARTS FOR INSTALLATION AND CONNECTIONS

501	X-2583-962-1	FRAME ASSY, FITTING
502	4-276-003-01	KEY (FRAME) (1 piece)
503	1-846-033-11	CONNECTION CABLE (ISO) (POWER) (BT4100E/BT4100U)
503	1-846-037-11	CONNECTION CABLE, AUTOMOBILE (POWER) (BT4100P/BT4150U)
504	4-278-065-01	COLLAR
505	3-934-325-01	SCREW, +K (5X8) TAPPING (1 piece) (BT4100P/BT4150U)
506	X-3382-926-1	SCREW ASSY (BS), FITTING (BT4100E/BT4100U)
507	3-349-410-11	BUSHING (BT4100E/BT4100U/BT4150U)
508	1-542-870-11	MICROPHONE UNIT (Including CLIP, DOUBLE-SIDED TAPE)
509	X-3381-154-1	SCREW ASSY (BS4), FITTING (BT4150U)



MEX-BT4100E/BT4100P/ BT4100U/BT4150U

SONY[®]

SERVICE MANUAL

Ver. 1.1 2012.12

US Model
Canadian Model
MEX-BT4100P

AEP Model

UK Model
MEX-BT4100U

E Model
MEX-BT4150U

Russian Model
MEX-BT4100E

SUPPLEMENT-1

File this supplement with the service manual.

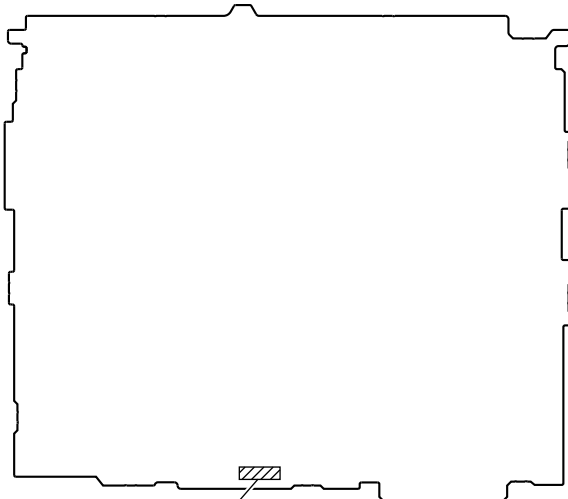
Subject: Change of MAIN board (Suffix-21/-22)
(BT4100P/BT4150U: E, Mexican models)
Change of MAIN board (Suffix-21)
(BT4100E/BT4100U/BT4150U: Saudi Arabia model)

The MAIN board has been changed in the midway of production.
New/former discrimination, printed wiring board, schematic diagram and electrical parts list of the MAIN board of New type are described in this service manual SUPPLEMENT-1.
Refer to original service manual for information of Former type.

1. NEW/FORMER DISCRIMINATION

Confirm by the part number of the MAIN board.

– MAIN Board (Component Side) –



Former : 1-886-982-12
(BT4100P/BT4150U: E, Mexican models)
1-887-147-11
(BT4100E/BT4100U/BT4150U: Saudi Arabia model)

New : 1-886-982-21 or 1-886-982-22
(BT4100P/BT4150U: E, Mexican models)
1-887-147-21
(BT4100E/BT4100U/BT4150U: Saudi Arabia model)

2. DIAGRAMS

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

For Printed Wiring Boards.

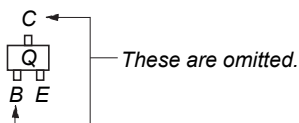
Note:

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

Caution:

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

- Indication of transistor.



- Abbreviation

EA : Saudi Arabia model
 MX : Mexican model

Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

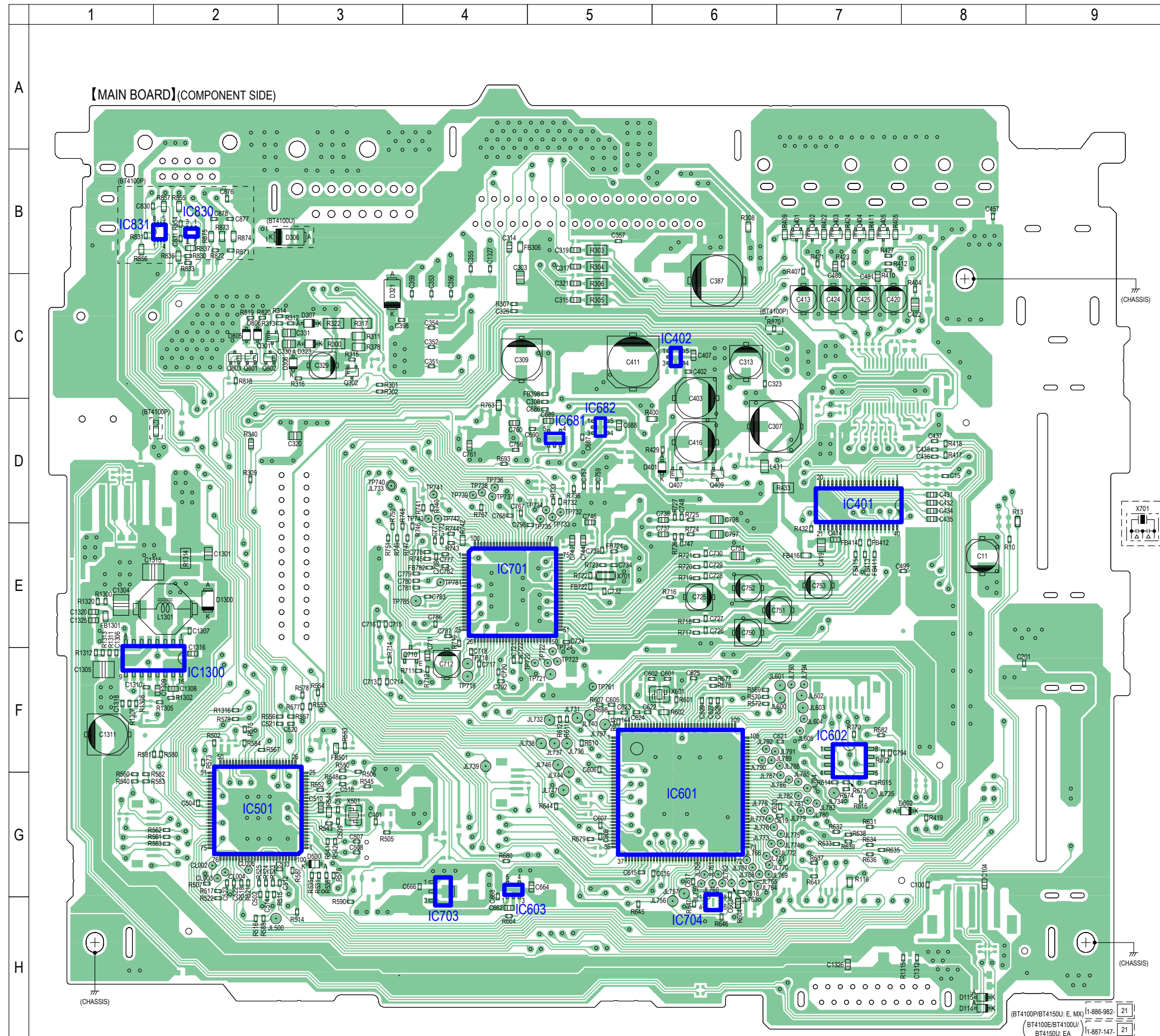
For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Panel designation.
- : B+ Line.
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
 no mark: TUNER (FM)
 < > : CD PLAY
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - ⇒ : AUDIO
 - ➡ : TUNER
 - ⇒ : CD
 - : USB
 - ➡ : SIRIUS/XM
 - ⇒ : AUX
 - ⇒ : Bluetooth

Note: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.


2-1. PRINTED WIRING BOARD - MAIN Board (Component Side) (Suffix-21) -  : Uses unleaded solder.

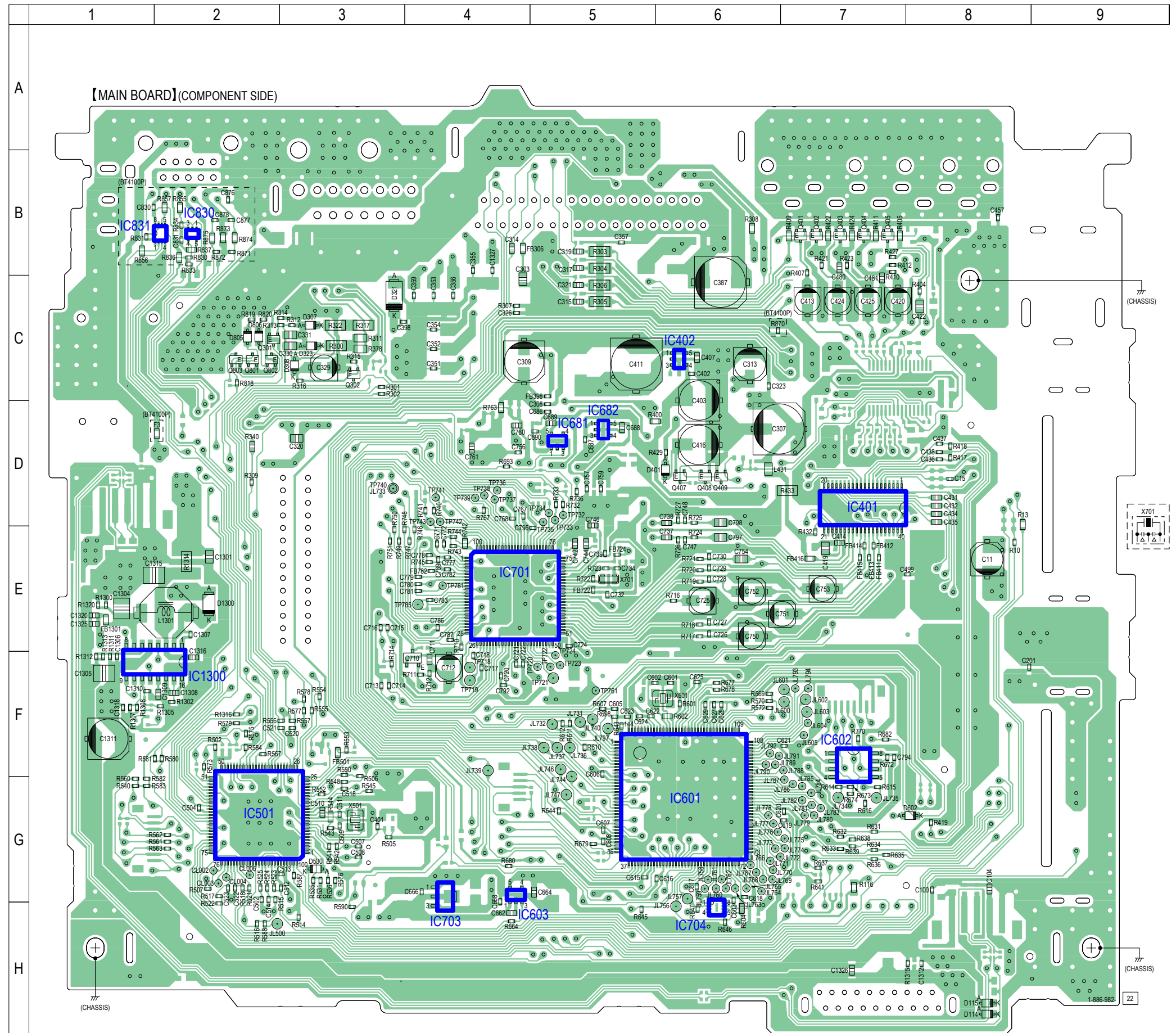


Note 1: When IC501 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

Note 2: Refer to "MAIN BOARD DISCRIMINATION" on page 1 for how to distinguish Suffix-21 and Suffix-22 of the MAIN board.

(BT4100P/BT4150U: E, Mx)	1-886-982	21
(BT4100E/BT4100U)	1-887-147	21
BT4150U: EA		

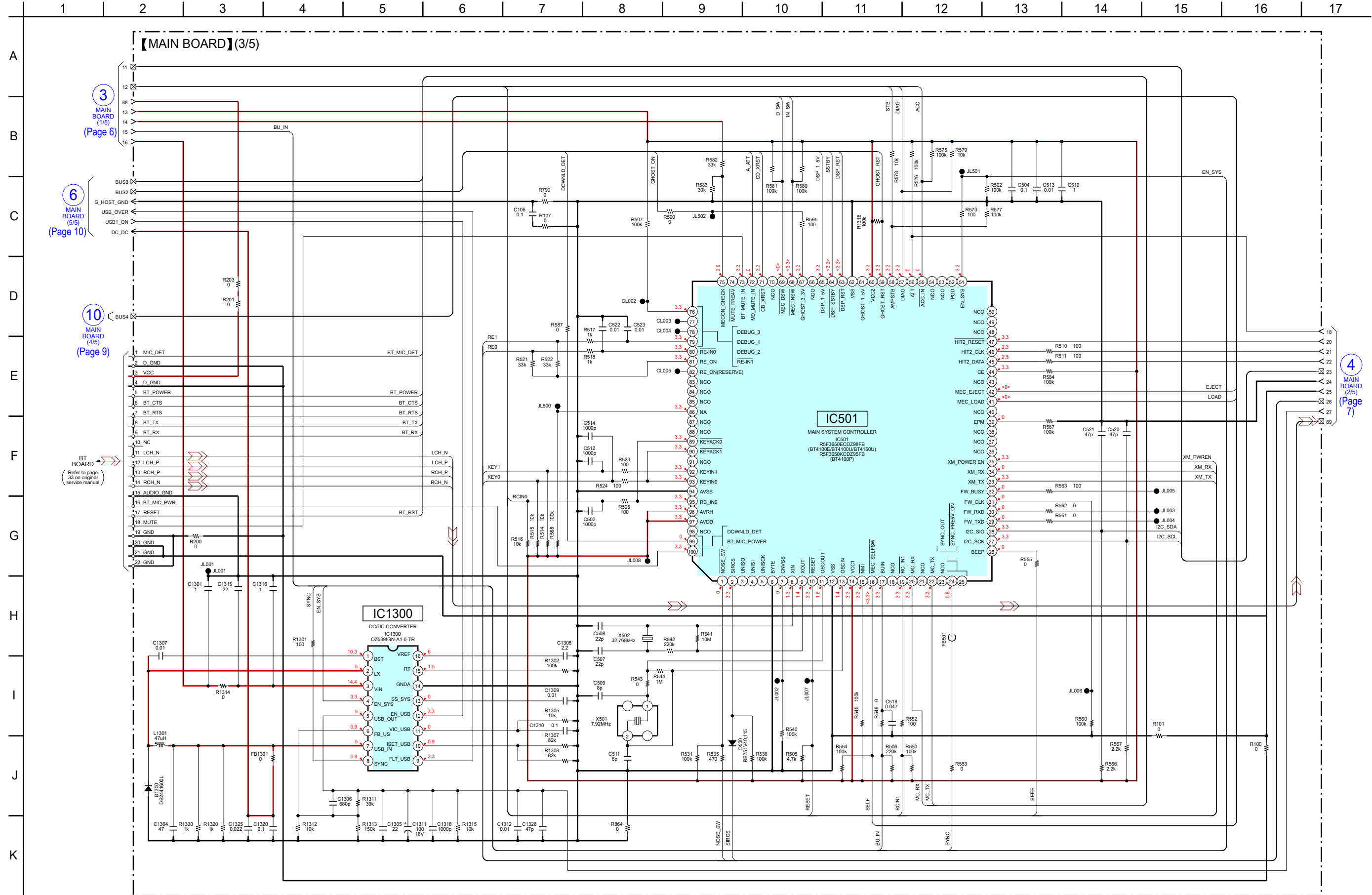
2-2. PRINTED WIRING BOARD - MAIN Board (Component Side) (Suffix-22) (BT4100P/BT4150U: E, Mexican models) -  : Uses unleaded solder.



Note 1: When IC501 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

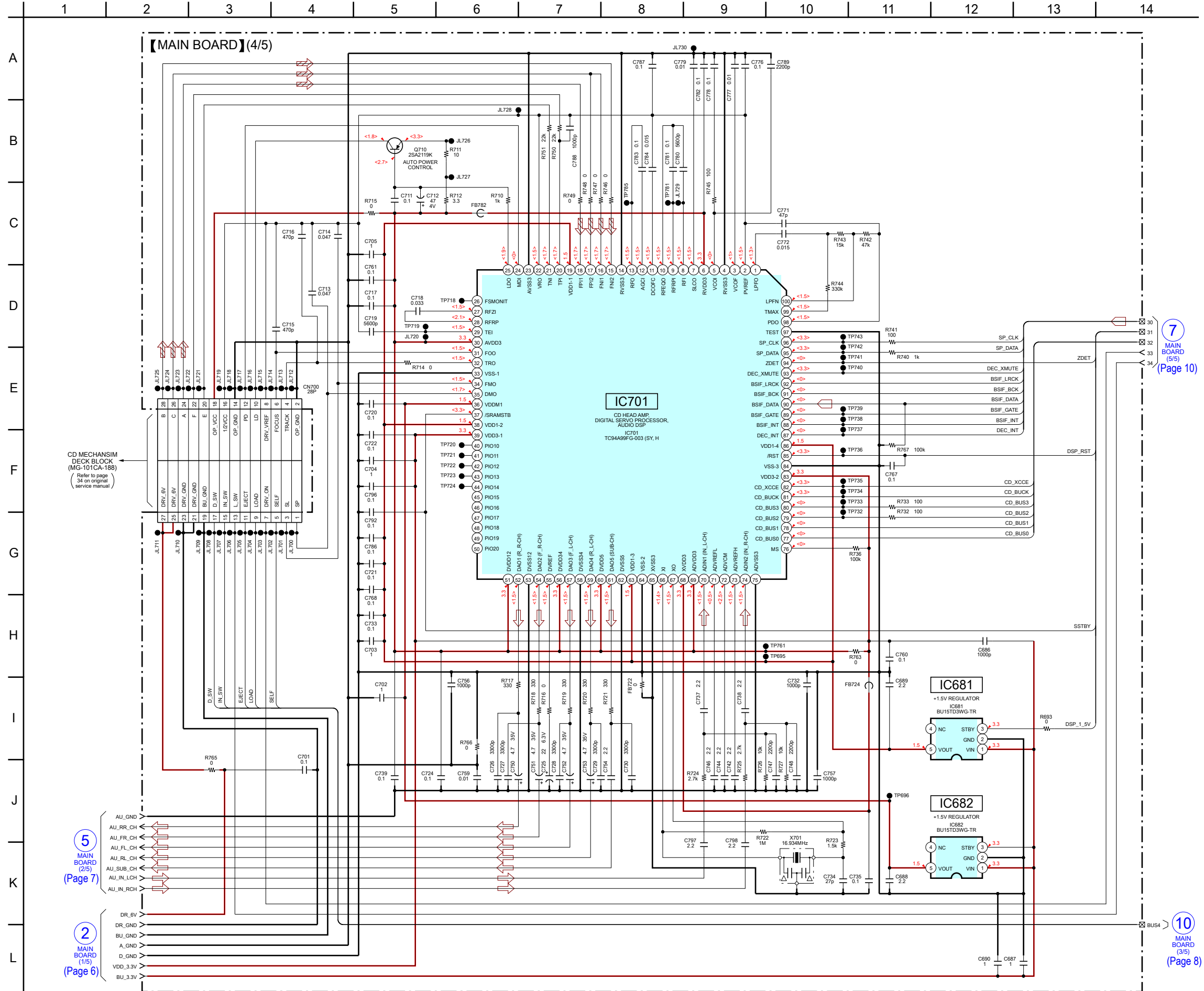
Note 2: Refer to "MAIN BOARD DISCRIMINATION" on page 1 for how to distinguish Suffix-21 and Suffix-22 of the MAIN board.

2-6. SCHEMATIC DIAGRAM - MAIN Board (3/5) -



Note: When IC501 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

2-7. SCHEMATIC DIAGRAM - MAIN Board (4/5) -



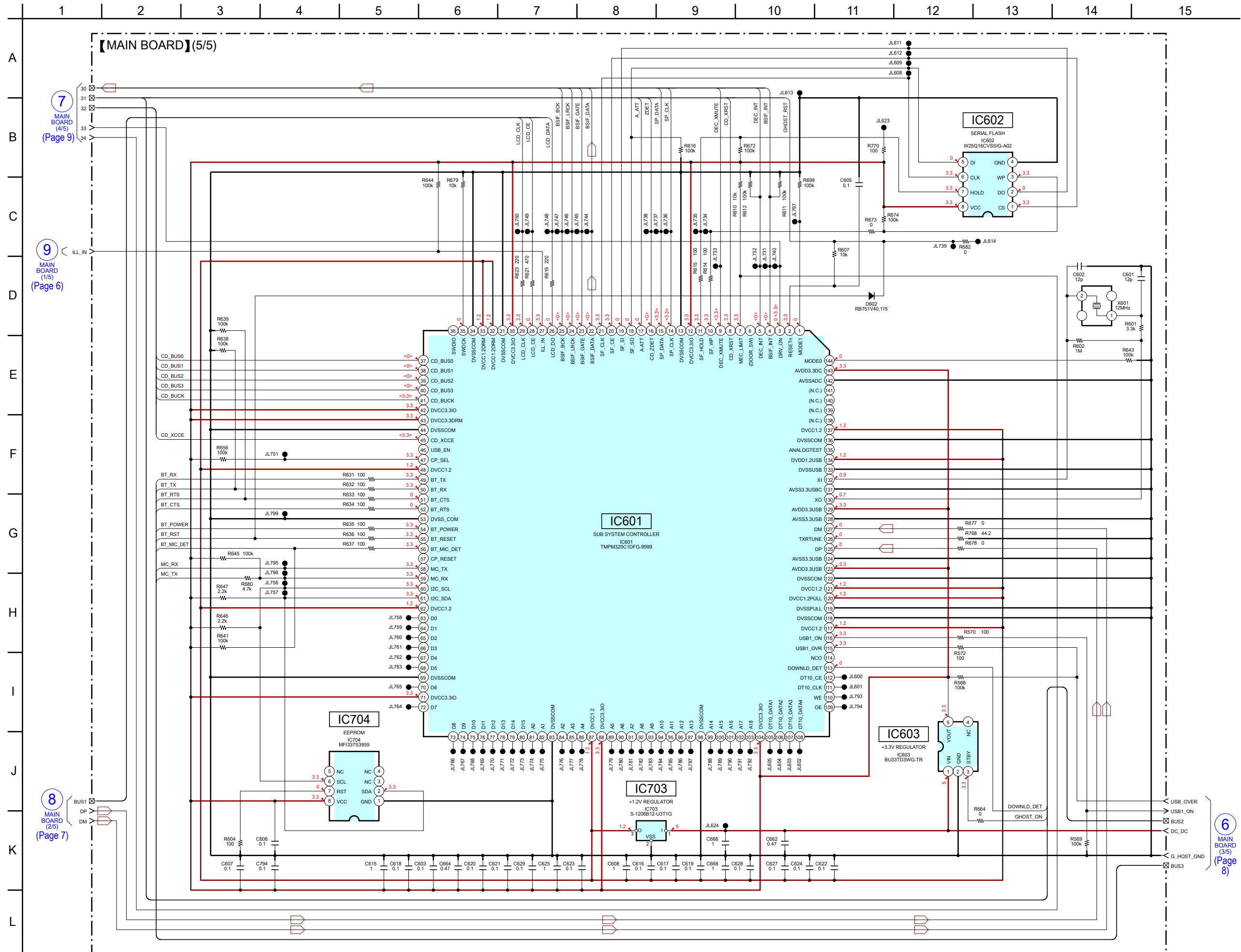
5 MAIN BOARD (2/5) (Page 7)

2 MAIN BOARD (1/5) (Page 6)

7 MAIN BOARD (5/5) (Page 10)

10 MAIN BOARD (3/5) (Page 8)

2-8. SCHEMATIC DIAGRAM - MAIN Board (5/5) -



6
MAIN BOARD (3/5)
(Page 8)

7
MAIN BOARD (4/5)
(Page 9)

9
MAIN BOARD (1/5)
(Page 6)

8
MAIN BOARD (2/5)
(Page 7)

3. ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- CAPACITORS
uF: μ F
uH: μ H
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .
- Abbreviation
EA : Saudi Arabia model
MX : Mexican model

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1890-750-A	MAIN BOARD, COMPLETE (BT4100U)		C334	1-112-839-11	ELECT 4700uF 20%	16V
	A-1890-751-A	MAIN BOARD, COMPLETE (BT4100P)		C335	1-114-868-11	CERAMIC CHIP 0.1uF 10%	50V
	A-1890-752-A	MAIN BOARD, COMPLETE (BT4100E/BT4150: EA)		C351	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
	A-1890-753-A	MAIN BOARD, COMPLETE (BT4150: E, MX) ***** (Including BT board)		C352	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT		C353	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
	7-685-794-01	SCREW +PTT 2.6X10 (S)		C354	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
		< CAPACITOR >		C355	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C10	1-100-591-91	CERAMIC CHIP 1uF	10% 25V	C356	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C11	1-137-765-21	ELECT CHIP 47uF	20% 16V	C357	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C15	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C358	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C100	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	C359	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C101	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C364	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C103	1-114-868-11	CERAMIC CHIP 0.1uF	10% 50V	C365	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C104	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C366	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C105	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C367	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C106	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C387	1-128-398-11	ELECT CHIP 220uF 20%	16V
C158	1-116-733-11	CERAMIC CHIP 1uF	10% 25V	C398	1-100-905-11	CERAMIC CHIP 0.001uF 10%	50V
C201	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C399	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
C301	1-127-715-11	CERAMIC CHIP 0.22uF	10% 16V	C401	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C302	1-116-733-11	CERAMIC CHIP 1uF	10% 25V	C402	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
C303	1-100-966-91	CERAMIC CHIP 10uF	20% 10V	C403	1-100-354-21	ELECT CHIP 220uF 20%	6.3V
C305	1-116-733-11	CERAMIC CHIP 1uF	10% 25V	C407	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C306	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C411	1-127-931-21	ELECT CHIP 470uF 20%	16V
C307	1-128-394-11	ELECT CHIP 220uF	20% 10V	C412	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C308	1-112-863-91	CERAMIC CHIP 0.22uF	10% 10V	C413	1-124-779-00	ELECT CHIP 10uF 20%	16V
C309	1-100-354-21	ELECT CHIP 220uF	20% 6.3V	C414	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C311	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C416	1-128-992-21	ELECT CHIP 47uF 20%	25V
C313	1-137-765-21	ELECT CHIP 47uF	20% 16V	C419	1-100-966-91	CERAMIC CHIP 10uF 20%	10V
C314	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V	C420	1-124-779-00	ELECT CHIP 10uF 20%	16V
C315	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V	C421	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C317	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V	C422	1-116-728-11	CERAMIC CHIP 2.2uF 10%	10V
C319	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V	C423	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C320	1-100-966-91	CERAMIC CHIP 10uF	20% 10V	C424	1-124-779-00	ELECT CHIP 10uF 20%	16V
C321	1-112-780-11	CERAMIC CHIP 0.47uF	10% 16V	C425	1-124-779-00	ELECT CHIP 10uF 20%	16V
C323	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C426	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C324	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C431	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C326	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C432	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C327	1-116-733-11	CERAMIC CHIP 1uF	10% 25V	C434	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C329	1-128-996-11	ELECT CHIP 4.7uF	20% 50V	C435	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C330	1-116-739-11	CERAMIC CHIP 0.47uF	10% 50V	C436	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
C331	1-116-739-11	CERAMIC CHIP 0.47uF	10% 50V	C437	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C438	1-112-717-91	CERAMIC CHIP 1uF 10%	6.3V
				C439	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C440	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V

Note 1: When the complete MAIN board is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

Note 2: When the complete MAIN board (including BT board) is replaced, it is necessary to confirm operation. Refer to "BLUE-TOOTH FUNCTION CHECKING METHOD USING A CELLULAR PHONE" on page 7 on original service manual.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C442	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C704	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C446	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C705	1-165-908-11	CERAMIC CHIP 1uF	10% 10V
C450	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C711	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C451	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V (BT4100P)	C712	1-126-208-21	ELECT CHIP 47uF	20% 4V
C452	1-165-908-11	CERAMIC CHIP 1uF	10% 10V (BT4100P)	C713	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V
C457	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C714	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V
C480	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C715	1-164-935-11	CERAMIC CHIP 470PF	10% 50V
C481	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	C716	1-164-935-11	CERAMIC CHIP 470PF	10% 50V
C499	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C717	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C502	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C718	1-127-772-81	CERAMIC CHIP 0.033uF	10% 10V
C504	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C719	1-164-172-11	CERAMIC CHIP 0.0056uF	10% 25V
C507	1-164-858-11	CERAMIC CHIP 22PF	5% 50V	C720	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C508	1-164-858-11	CERAMIC CHIP 22PF	5% 50V	C721	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C509	1-164-848-11	CERAMIC CHIP 8PF	0.5PF 50V	C722	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C510	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C724	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C511	1-164-848-11	CERAMIC CHIP 8PF	0.5PF 50V	C725	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
C512	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C726	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C513	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	C727	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C514	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	C728	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C518	1-119-923-11	CERAMIC CHIP 0.047uF	10% 10V	C729	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C520	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C730	1-164-940-11	CERAMIC CHIP 0.0033uF	10% 16V
C521	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	C732	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C522	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	C733	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C523	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	C734	1-164-860-11	CERAMIC CHIP 27PF	5% 50V
C601	1-164-852-11	CERAMIC CHIP 12PF	5% 50V	C735	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C602	1-164-852-11	CERAMIC CHIP 12PF	5% 50V	C737	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C603	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C738	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C605	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C739	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
C606	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C742	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C607	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C744	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C608	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C746	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V
C615	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C747	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C616	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C748	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V
C617	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C750	1-126-603-11	ELECT CHIP 4.7uF	20% 35V
C618	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C751	1-126-603-11	ELECT CHIP 4.7uF	20% 35V
C619	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C752	1-126-603-11	ELECT CHIP 4.7uF	20% 35V
C620	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C753	1-126-603-11	ELECT CHIP 4.7uF	20% 35V
C621	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C754	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V
C622	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C755	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C623	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C757	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V
C624	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C759	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C625	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C760	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C627	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C761	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C628	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C767	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C629	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	C768	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C662	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V	C771	1-164-866-11	CERAMIC CHIP 47PF	5% 50V
C664	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V	C772	1-127-988-81	CERAMIC CHIP 0.015uF	10% 16V
C666	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C776	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V
C668	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C777	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C689	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C778	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C690	1-112-717-91	CERAMIC CHIP 1uF	10% 6.3V	C779	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V
C701	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	C780	1-100-579-81	CERAMIC CHIP 0.0056uF	10% 25V
C702	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	C781	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V
C703	1-116-733-11	CERAMIC CHIP 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	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
				C786	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
				C787	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V
				C788	1-115-416-11	CERAMIC CHIP 0.001uF	5% 25V
				C789	1-164-939-11	CERAMIC CHIP 0.0022uF	10% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C792	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D832	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)	
C794	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V	D1300	6-503-548-01	DIODE DB2441600L	
C796	1-125-777-11	CERAMIC CHIP 0.1uF	10% 10V			< FUSE >	
C797	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V	F3	1-576-415-11	FUSE (2 A/32 V) (BT4100P)	
C798	1-116-728-11	CERAMIC CHIP 2.2uF	10% 10V			< FERRITE BEAD/JUMPER RESISTOR >	
C801	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	FB19	1-400-334-21	FERRITE, EMI (SMD) (1608) (BT4100P)	
C802	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	FB306	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
C830	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	FB314	1-481-051-21	BEAD, FERRITE (CHIP) (1608)	
C831	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	FB398	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
C876	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	FB404	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C877	1-164-874-11	CERAMIC CHIP 100PF	5% 50V	FB405	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C878	1-164-874-11	CERAMIC CHIP 100PF	5% 50V	FB406	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1301	1-100-591-91	CERAMIC CHIP 1uF	10% 25V	FB407	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1304	1-116-705-11	CERAMIC CHIP 47uF	20% 16V	FB408	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1305	1-100-055-21	CERAMIC CHIP 22uF	20% 16V	FB410	1-400-040-22	BEAD, FERRITE (CHIP) (1608)	
C1306	1-164-936-11	CERAMIC CHIP 680PF	10% 50V	FB411	1-400-632-21	BEAD, FERRITE (1005)	
C1307	1-164-943-81	CERAMIC CHIP 0.01uF	10% 16V	FB412	1-400-632-21	BEAD, FERRITE (1005)	
C1308	1-114-983-91	CERAMIC CHIP 2.2uF	10% 16V	FB413	1-400-632-21	BEAD, FERRITE (1005)	
C1309	1-114-323-11	CERAMIC CHIP 0.01uF	10% 50V	FB414	1-400-632-21	BEAD, FERRITE (1005)	
C1310	1-114-582-91	CERAMIC CHIP 0.1uF	10% 16V	FB415	1-400-632-21	BEAD, FERRITE (1005)	
C1311	1-117-681-11	ELECT CHIP 100uF	20% 16V	FB416	1-481-051-21	BEAD, FERRITE (CHIP) (1608)	
C1312	1-100-567-81	CERAMIC CHIP 0.01uF	10% 25V	FB420	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
C1315	1-100-055-21	CERAMIC CHIP 22uF	20% 16V	FB501	1-414-595-11	INDUCTOR, FERRITE BEAD	
C1316	1-112-298-91	CERAMIC CHIP 1uF	10% 16V	FB722	1-218-990-81	SHORT CHIP 0	
C1318	1-164-937-11	CERAMIC CHIP 0.001uF	10% 50V	FB724	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
C1320	1-100-597-91	CERAMIC CHIP 0.1uF	10% 25V	FB782	1-469-084-21	INDUCTOR, FERRITE BEAD (1005)	
C1325	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
C1326	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
C1327	1-164-866-11	CERAMIC CHIP 47PF	5% 50V	FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
		< TUNER UNIT/CONNECTOR >		FB890	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
CN01	A-1878-198-A	TUX-DSP02 (TUNER UNIT)		FB891	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
CN102	1-842-266-22	SOCKET, CONNECTOR 20P		FB1301	1-216-864-11	SHORT CHIP 0	
CN301	1-843-330-11	PIN, CONNECTOR 16P				< IC >	
CN700	1-842-487-12	CONNECTOR, BOARD TO BOARD 28P		IC301	6-715-848-21	IC TDF8556AJ/N5	
CN802	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (BT4100P)		IC401	6-714-623-01	IC BD3467FV-E2	
		< DIODE >		IC402	6-720-463-01	IC MM1886A33NRE	
D114	6-503-205-01	DIODE RKZ6.8B2KGP1		IC501	6-719-019-02	IC R5F3650ECDZ98FB (for SERVICE) (BT4100E/BT4100U/BT4150U)	
D115	6-503-205-01	DIODE RKZ6.8B2KGP1		IC501	6-719-022-02	IC R5F3650KCDZ95FB (for SERVICE) (BT4100P)	
D119	6-503-205-01	DIODE RKZ6.8B2KGP1		IC601	6-715-714-01	IC TMPM320C1DFG-9999	
D306	6-503-238-01	DIODE GN1G (BT4100U)		IC602	6-719-044-02	IC W25Q16CVSSIG-A02 (for SERVICE)	
D307	6-503-213-01	DIODE RKZ18B2KGP1		IC603	6-717-694-01	IC BU33TD3WG-TR	
D308	6-502-961-01	DIODE DA2J10100L		IC681	6-716-355-01	IC BU15TD3WG-TR	
D318	6-503-238-01	DIODE GN1G		IC682	6-716-355-01	IC BU15TD3WG-TR	
D321	6-503-238-01	DIODE GN1G		IC701	6-715-712-11	IC TC94A99FG-003 (SY, H	
D323	6-503-213-01	DIODE RKZ18B2KGP1		IC703	6-715-716-01	IC S-1206B12-U3T1G	
D324	6-503-238-01	DIODE GN1G		IC704	6-718-324-01	IC MFI337S3959	
D401	6-502-961-01	DIODE DA2J10100L		IC830	6-710-376-01	IC 74LVC1G17GW-125 (BT4100P)	
D530	6-503-759-01	DIODE RB751V40, 115		IC831	6-709-182-01	IC TC7WH126FK (BT4100P)	
D602	6-503-759-01	DIODE RB751V40, 115		IC1300	6-718-913-01	IC OZ539IGN-A1-0-TR	
D805	6-503-206-01	DIODE RKZ7.5B2KGP1				< JACK >	
D806	6-503-213-01	DIODE RKZ18B2KGP1		J1	1-843-172-11	JACK (ANT) (ANTENNA IN)	
D820	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)		J403	1-822-714-21	JACK, PIN 6P (FRONT/REAR AUDIO OUT, SUB OUT (MONO))	
D830	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)		J801	1-566-822-81	JACK (REMOTE IN)	
D831	6-503-213-01	DIODE RKZ18B2KGP1 (BT4100P)					

Note: When IC501 is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" on page 4 on original service manual.

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< COIL >					
L1	1-400-073-21	INDUCTOR 4.7uH		R387	1-216-864-11	SHORT CHIP 0	
L301	1-460-443-11	CHOKER COIL 140uH		R396	1-216-296-11	SHORT CHIP 0	
L395	1-469-844-11	INDUCTOR 2.2uH		R400	1-216-864-11	SHORT CHIP 0	
L431	1-469-844-11	INDUCTOR 2.2uH		R404	1-218-945-11	METAL CHIP 220 5% 1/16W	
L1301	1-457-630-11	COIL, CHOKER 47uH		R405	1-216-841-11	METAL CHIP 47K 5% 1/10W	
		< TRANSISTOR >		R407	1-218-945-11	METAL CHIP 220 5% 1/16W	
Q301	6-552-892-01	TRANSISTOR LSCR523UBFS8TL		R409	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q302	6-552-892-01	TRANSISTOR LSCR523UBFS8TL		R410	1-218-945-11	METAL CHIP 220 5% 1/16W	
Q401	6-552-937-01	TRANSISTOR LTC014TUBFS8TL		R411	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q402	6-552-937-01	TRANSISTOR LTC014TUBFS8TL		R412	1-218-990-81	SHORT CHIP 0	
Q403	6-552-937-01	TRANSISTOR LTC014TUBFS8TL		R415	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q404	6-552-937-01	TRANSISTOR LTC014TUBFS8TL		R416	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q405	6-552-937-01	TRANSISTOR LTC014TUBFS8TL		R417	1-218-966-11	METAL CHIP 12K 5% 1/16W	
Q407	6-552-922-01	TRANSISTOR LTA014EUBFS8TL		R418	1-218-966-11	METAL CHIP 12K 5% 1/16W	
Q408	6-552-922-01	TRANSISTOR LTA014EUBFS8TL (Suffix-22)		R419	1-218-957-11	METAL CHIP 2.2K 5% 1/16W	
Q409	6-552-936-01	TRANSISTOR LTC014EUBFS8TL		R421	1-218-945-11	METAL CHIP 220 5% 1/16W	
Q710	6-551-120-01	TRANSISTOR 2SA2119K		R422	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q801	6-552-949-01	TRANSISTOR LTC044EUBFS8TL		R423	1-218-945-11	METAL CHIP 220 5% 1/16W	
Q802	6-552-936-01	TRANSISTOR LTC014EUBFS8TL		R424	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q803	6-552-892-01	TRANSISTOR LSCR523UBFS8TL		R425	1-216-864-11	SHORT CHIP 0	
		< RESISTOR/CAPACITOR >		R426	1-216-296-11	SHORT CHIP 0	
R10	1-218-990-81	SHORT CHIP 0		R427	1-218-990-81	SHORT CHIP 0	
R13	1-216-821-11	METAL CHIP 1K 5% 1/10W		R429	1-218-933-11	METAL CHIP 22 5% 1/16W	
R19	1-216-864-11	SHORT CHIP 0 (BT4100E/BT4100U/BT4150U)		R432	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R100	1-216-864-11	SHORT CHIP 0		R433	1-216-296-11	SHORT CHIP 0	
R101	1-216-296-11	SHORT CHIP 0		R434	1-216-295-91	SHORT CHIP 0	
R102	1-216-864-11	SHORT CHIP 0		R442	1-216-864-11	SHORT CHIP 0	
R107	1-216-296-11	SHORT CHIP 0		R443	1-216-864-11	SHORT CHIP 0	
R116	1-216-864-11	SHORT CHIP 0		R444	1-216-864-11	SHORT CHIP 0	
R200	1-216-864-11	SHORT CHIP 0		R445	1-216-864-11	SHORT CHIP 0	
R201	1-216-295-91	SHORT CHIP 0		R446	1-216-864-11	SHORT CHIP 0	
R203	1-216-864-11	SHORT CHIP 0		R462	1-216-864-11	SHORT CHIP 0	
R300	1-216-296-11	SHORT CHIP 0		R463	1-216-864-11	SHORT CHIP 0	
R301	1-218-941-81	METAL CHIP 100 5% 1/16W		R464	1-216-864-11	SHORT CHIP 0	
R302	1-218-941-81	METAL CHIP 100 5% 1/16W		R465	1-216-864-11	SHORT CHIP 0	
R303	1-216-182-00	METAL CHIP 220 5% 1/8W		R466	1-216-864-11	SHORT CHIP 0	
R304	1-216-182-00	METAL CHIP 220 5% 1/8W		R468	1-216-864-11	SHORT CHIP 0	
R305	1-216-182-00	METAL CHIP 220 5% 1/8W		R469	1-216-864-11	SHORT CHIP 0	
R306	1-216-182-00	METAL CHIP 220 5% 1/8W		R470	1-216-864-11	SHORT CHIP 0	
R307	1-218-943-11	METAL CHIP 150 5% 1/16W		R471	1-216-864-11	SHORT CHIP 0	
R308	1-216-864-11	SHORT CHIP 0		R472	1-216-864-11	SHORT CHIP 0	
R309	1-218-973-11	METAL CHIP 47K 5% 1/16W		R473	1-216-864-11	SHORT CHIP 0	
R310	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		R490	1-216-813-11	METAL CHIP 220 5% 1/10W	
R311	1-216-073-91	METAL CHIP 10K 5% 1/10W		R491	1-216-813-11	METAL CHIP 220 5% 1/10W	
R312	1-218-973-11	METAL CHIP 47K 5% 1/16W		R492	1-216-813-11	METAL CHIP 220 5% 1/10W	
R313	1-218-973-11	METAL CHIP 47K 5% 1/16W		R493	1-216-813-11	METAL CHIP 220 5% 1/10W	
R314	1-218-961-11	METAL CHIP 4.7K 5% 1/16W		R494	1-216-813-11	METAL CHIP 220 5% 1/10W	
R315	1-218-969-11	METAL CHIP 22K 5% 1/16W		R495	1-216-813-11	METAL CHIP 220 5% 1/10W	
R316	1-218-977-11	METAL CHIP 100K 5% 1/16W		R502	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R317	1-216-214-00	METAL CHIP 4.7K 5% 1/8W		R505	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R322	1-216-296-11	SHORT CHIP 0		R506	1-218-981-91	METAL CHIP 220K 5% 1/16W	
R323	1-216-821-11	METAL CHIP 1K 5% 1/10W		R507	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R324	1-216-821-11	METAL CHIP 1K 5% 1/10W		R510	1-216-809-11	METAL CHIP 100 5% 1/10W	
R325	1-216-821-11	METAL CHIP 1K 5% 1/10W		R511	1-216-809-11	METAL CHIP 100 5% 1/10W	
R326	1-216-821-11	METAL CHIP 1K 5% 1/10W		R514	1-250-519-11	METAL CHIP 10K 1% 1/16W	
R340	1-216-864-11	SHORT CHIP 0		R515	1-250-519-11	METAL CHIP 10K 1% 1/16W	
R378	1-216-073-91	METAL CHIP 10K 5% 1/10W		R516	1-250-519-11	METAL CHIP 10K 1% 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	

Note: Refer to "MAIN BOARD DISCRIMINATION" on page 1 for how to distinguish Suffix-21 and Suffix-22 of the MAIN board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R522	1-218-971-11	METAL CHIP	33K	5%	1/16W	R633	1-218-941-81	METAL CHIP	100	5%	1/16W
R523	1-218-941-81	METAL CHIP	100	5%	1/16W	R634	1-218-941-81	METAL CHIP	100	5%	1/16W
R524	1-218-941-81	METAL CHIP	100	5%	1/16W	R635	1-218-941-81	METAL CHIP	100	5%	1/16W
R525	1-218-941-81	METAL CHIP	100	5%	1/16W	R636	1-218-941-81	METAL CHIP	100	5%	1/16W
R531	1-218-977-11	METAL CHIP	100K	5%	1/16W	R637	1-218-990-81	SHORT CHIP	0		
R535	1-218-949-11	METAL CHIP	470	5%	1/16W	R638	1-218-977-11	METAL CHIP	100K	5%	1/16W
R536	1-218-977-11	METAL CHIP	100K	5%	1/16W	R639	1-218-977-11	METAL CHIP	100K	5%	1/16W
R540	1-218-977-11	METAL CHIP	100K	5%	1/16W	R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R541	1-245-604-11	METAL CHIP	10M	5%	1/16W	R643	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-981-91	METAL CHIP	220K	5%	1/16W	R644	1-218-977-11	METAL CHIP	100K	5%	1/16W
R543	1-218-990-81	SHORT CHIP	0			R645	1-218-977-11	METAL CHIP	100K	5%	1/16W
R544	1-216-857-11	METAL CHIP	1M	5%	1/10W	R646	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R545	1-218-977-11	METAL CHIP	100K	5%	1/16W	R647	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R548	1-218-990-81	SHORT CHIP	0			R656	1-216-845-11	METAL CHIP	100K	5%	1/10W
R550	1-218-977-11	METAL CHIP	100K	5%	1/16W	R664	1-218-990-81	SHORT CHIP	0		
R552	1-218-941-81	METAL CHIP	100	5%	1/16W	R672	1-218-977-11	METAL CHIP	100K	5%	1/16W
R553	1-218-990-81	SHORT CHIP	0			R673	1-218-990-81	SHORT CHIP	0		
R554	1-218-977-11	METAL CHIP	100K	5%	1/16W	R674	1-218-977-11	METAL CHIP	100K	5%	1/16W
R555	1-218-990-81	SHORT CHIP	0			R677	1-218-990-81	SHORT CHIP	0		
R556	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R678	1-218-990-81	SHORT CHIP	0		
R557	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R679	1-218-965-11	METAL CHIP	10K	5%	1/16W
R560	1-218-977-11	METAL CHIP	100K	5%	1/16W	R680	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R561	1-218-990-81	SHORT CHIP	0			R682	1-218-990-81	SHORT CHIP	0		
R562	1-218-990-81	SHORT CHIP	0			R693	1-218-990-81	SHORT CHIP	0		
R563	1-218-941-81	METAL CHIP	100	5%	1/16W	R698	1-218-977-11	METAL CHIP	100K	5%	1/16W
R567	1-218-977-11	METAL CHIP	100K	5%	1/16W	R710	1-218-953-11	METAL CHIP	1K	5%	1/16W
R568	1-216-845-11	METAL CHIP	100K	5%	1/10W	R711	1-218-929-11	METAL CHIP	10	5%	1/16W
R569	1-218-977-11	METAL CHIP	100K	5%	1/16W	R712	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R570	1-218-941-81	METAL CHIP	100	5%	1/16W	R714	1-218-990-81	SHORT CHIP	0		
R572	1-218-941-81	METAL CHIP	100	5%	1/16W	R715	1-216-864-11	SHORT CHIP	0		
R573	1-218-941-81	METAL CHIP	100	5%	1/16W	R716	1-218-990-81	SHORT CHIP	0		
R575	1-218-977-11	METAL CHIP	100K	5%	1/16W	R717	1-218-947-11	METAL CHIP	330	5%	1/16W
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W	R718	1-218-947-11	METAL CHIP	330	5%	1/16W
R577	1-218-977-11	METAL CHIP	100K	5%	1/16W	R719	1-218-947-11	METAL CHIP	330	5%	1/16W
R578	1-218-965-11	METAL CHIP	10K	5%	1/16W	R720	1-218-947-11	METAL CHIP	330	5%	1/16W
R579	1-218-965-11	METAL CHIP	10K	5%	1/16W	R721	1-218-947-11	METAL CHIP	330	5%	1/16W
R580	1-218-977-11	METAL CHIP	100K	5%	1/16W	R722	1-218-989-11	METAL CHIP	1M	5%	1/16W
R581	1-218-977-11	METAL CHIP	100K	5%	1/16W	R723	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R582	1-218-971-11	METAL CHIP	33K	5%	1/16W	R724	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R583	1-220-200-81	METAL CHIP	30K	5%	1/16W	R725	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R584	1-218-977-11	METAL CHIP	100K	5%	1/16W	R726	1-218-965-11	METAL CHIP	10K	5%	1/16W
R587	1-218-990-81	SHORT CHIP	0			R727	1-218-965-11	METAL CHIP	10K	5%	1/16W
R588	1-218-977-11	METAL CHIP	100K	5%	1/16W	R732	1-218-941-81	METAL CHIP	100	5%	1/16W
R590	1-218-990-81	SHORT CHIP	0			R733	1-218-941-81	METAL CHIP	100	5%	1/16W
R595	1-216-809-11	METAL CHIP	100	5%	1/10W	R736	1-218-977-11	METAL CHIP	100K	5%	1/16W
R601	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R740	1-218-953-11	METAL CHIP	1K	5%	1/16W
R602	1-216-857-11	METAL CHIP	1M	5%	1/10W	R741	1-218-941-81	METAL CHIP	100	5%	1/16W
R604	1-216-809-11	METAL CHIP	100	5%	1/10W	R742	1-216-841-11	METAL CHIP	47K	5%	1/10W
R607	1-218-965-11	METAL CHIP	10K	5%	1/16W	R743	1-218-967-11	METAL CHIP	15K	5%	1/16W
R610	1-218-965-11	METAL CHIP	10K	5%	1/16W	R744	1-218-983-11	METAL CHIP	330K	5%	1/16W
R611	1-218-977-11	METAL CHIP	100K	5%	1/16W	R745	1-218-941-81	METAL CHIP	100	5%	1/16W
R612	1-218-977-11	METAL CHIP	100K	5%	1/16W	R746	1-218-990-81	SHORT CHIP	0		
R614	1-218-941-81	METAL CHIP	100	5%	1/16W	R747	1-218-990-81	SHORT CHIP	0		
R615	1-218-941-81	METAL CHIP	100	5%	1/16W	R748	1-218-990-81	SHORT CHIP	0		
R616	1-218-977-11	METAL CHIP	100K	5%	1/16W	R749	1-218-990-81	SHORT CHIP	0		
R619	1-216-813-11	METAL CHIP	220	5%	1/10W	R750	1-218-969-11	METAL CHIP	22K	5%	1/16W
R621	1-216-817-11	METAL CHIP	470	5%	1/10W	R751	1-218-969-11	METAL CHIP	22K	5%	1/16W
R623	1-216-813-11	METAL CHIP	220	5%	1/10W	R763	1-216-864-11	SHORT CHIP	0		
R631	1-218-941-81	METAL CHIP	100	5%	1/16W	R765	1-216-864-11	SHORT CHIP	0		
R632	1-218-941-81	METAL CHIP	100	5%	1/16W	R766	1-216-864-11	SHORT CHIP	0		

MEX-BT4100E/BT4100P/BT4100U/BT4150U

MAIN

Ref. No.	Part No.	Description			Remark
R767	1-218-977-11	METAL CHIP	100K	5%	1/16W
R768	1-250-337-21	METAL CHIP	44.2	1%	1/10W
R770	1-218-941-81	METAL CHIP	100	5%	1/16W
R790	1-216-864-11	SHORT CHIP	0		
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
R831	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100P)
R833	1-218-975-11	METAL CHIP	68K	5%	1/16W (BT4100P)
R833	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100E/BT4100U/BT4150U)
R834	1-218-977-11	METAL CHIP	100K	5%	1/16W (BT4100P)
R836	1-216-801-11	METAL CHIP	22	5%	1/10W (BT4100P)
R837	1-216-864-11	SHORT CHIP	0		(BT4100P)
R855	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)
R856	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)
R857	1-216-809-11	METAL CHIP	100	5%	1/10W (BT4100P)
R864	1-216-864-11	SHORT CHIP	0		
R870	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (BT4100P)
R871	1-218-966-11	METAL CHIP	12K	5%	1/16W (BT4100P)
R872	1-218-966-11	METAL CHIP	12K	5%	1/16W (BT4100P)
R873	1-216-864-11	SHORT CHIP	0		(BT4100P)
R874	1-216-821-11	METAL CHIP	1K	5%	1/10W (BT4100P)
R875	1-216-821-11	METAL CHIP	1K	5%	1/10W (BT4100P)
R899	1-216-295-91	SHORT CHIP	0		
R1300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1301	1-216-809-11	METAL CHIP	100	5%	1/10W
R1302	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1305	1-218-965-11	METAL CHIP	10K	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
R1311	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R1312	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R1313	1-218-979-11	METAL CHIP	150K	5%	1/16W
R1314	1-216-296-11	SHORT CHIP	0		
R1315	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1316	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1320	1-218-953-11	METAL CHIP	1K	5%	1/16W
< VIBRATOR >					
X501	1-814-626-11	VIBRATOR, CRYSTAL (7.92 MHz)			
X502	1-814-629-11	VIBRATOR, CRYSTAL (32.768 kHz)			
X601	1-814-304-11	VIBRATOR, CRYSTAL (12 MHz)			
X701	1-795-561-21	VIBRATOR, CERAMIC (16.934 MHz)			

MEMO

