

CDX-GT51W/GT510/ GT560/GT560S

SERVICE MANUAL

Ver. 1.2 2007.04

US Model
Canadian Model
CDX-GT51W/GT510
E Model
CDX-GT560/GT560S



- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US, CND MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into
4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more
than 5% total harmonic distortion.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-101FA-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

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

Tuner section

FM

Tuning range 87.5 – 107.9 MHz (US, CND model)
87.5 – 108.0 MHz (EA model)
87.5 – 108.0 MHz (at 50 kHz step)
(E, MX model)
87.5 – 107.9 MHz (at 200 kHz step)
(E, MX model)
FM tuning interval 50 kHz/200 kHz switchable (E, MX model)
Antenna (aerial) terminal External antenna (aerial) connector
Intermediate frequency 10.7 MHz/450 kHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz 0.5% (stereo), 0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM

Tuning range 530 – 1,710 kHz (US, CND model)
531 – 1,602 kHz (EA model)
531 – 1,602 kHz (at 9 kHz step) (E, MX model)
530 – 1,710 kHz (at 10 kHz step) (E, MX model)
AM tuning interval 9 kHz/10 kHz switchable (E, MX model)
Antenna (aerial) terminal External antenna (aerial) connector

Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 μ V

Power amplifier section

Outputs Speaker outputs (sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 52 W \times 4 (at 4 ohms)

General

Outputs Audio outputs terminal (front, sub/rear switchable)
Power antenna (aerial) relay control terminal
Power amplifier control terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-887-402-03
2007D04-1
© 2007.04

Sony Corporation
eVehicle Division
Published by Sony Techno Create Corporation

SONY®

CDX-GT51W/GT510/GT560/GT560S

Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input terminal Remote controller input terminal Antenna (aerial) input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ± 10 dB at 60 Hz (XPLOD) Mid: ± 10 dB at 1 kHz (XPLOD) High: ± 10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground (earth))
Dimensions	Approx. 178 × 50 × 180 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories	Card remote commander: RM-X151 Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

US and foreign patents licensed from Dolby Laboratories.

- Abbreviation
- CND : Canadian model
- EA : Saudi Arabia model
- MX : Mexican model

SERVICE NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown 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

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

• CDX-GT560/GT560S



This label is located on the bottom of the chassis.

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.

TEST DISCS

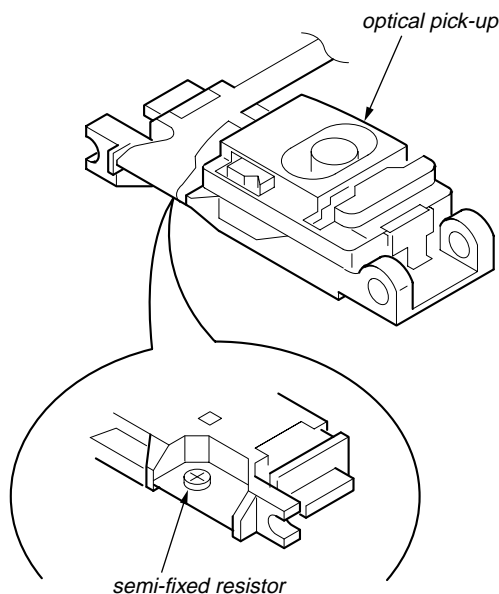
Please use the following test discs for the check on the CD section.

- YDES-18 (Part No. 3-702-101-01)
- PATD-012 (Part No. 4-225-203-01)

CAUTION

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

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.



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.

• **CD Playback**

You can play CD-DA (also containing CD TEXT*) and CD-R/CD-RW (MP3/WMA/AAC files also containing Multi Session) and ATRAC CD (ATRAC3 and ATRAC3plus format).

Type of discs	Label on the disc
CD-DA	 
MP3 WMA AAC ATRAC CD	   

* A CD TEXT disc is a CD-DA that includes information such as disc, artist and track name.

● **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.)



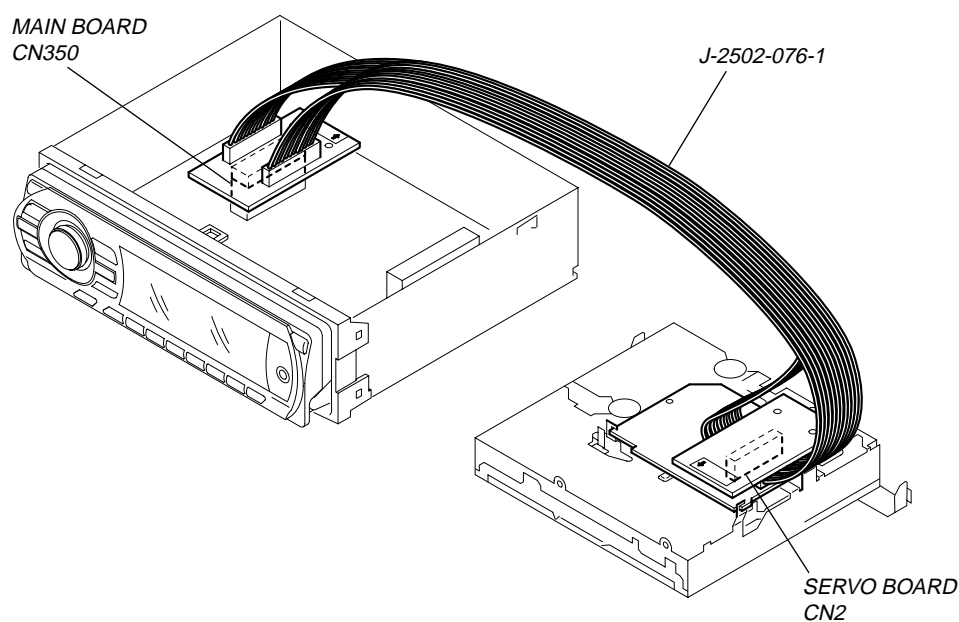
Unleaded solder has the following characteristics.

- 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.

EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CNP301) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1177-362-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

1. Insert the AUX jack into the KEY board.
2. Place the KEY board on the front panel.
3. Solder the three terminals of the jack.

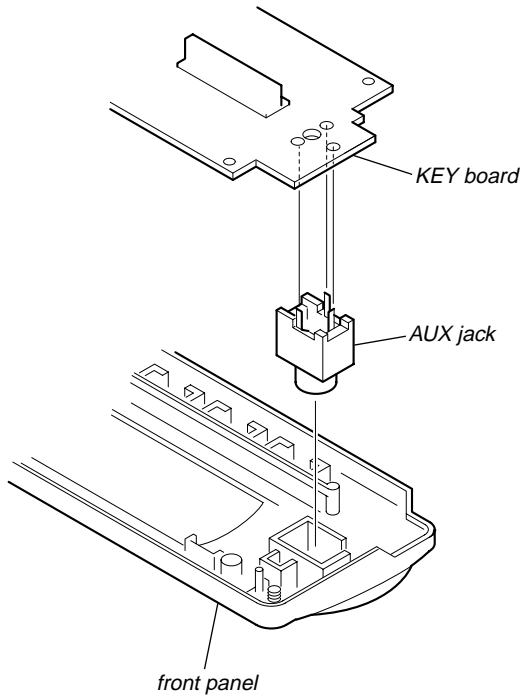


TABLE OF CONTENTS

1. GENERAL	
Location of Controls (CDX-GT51W: US)	5
Connections (CDX-GT51W: US)	5
Location of Controls (CDX-GT51W: CND/GT510)	7
Connections (CDX-GT51W: CND/GT510)	7
Location of Controls (CDX-GT560: E, MX/GT560S) ...	9
Connections (CDX-GT560: E, MX/GT560S)	9
2. DISASSEMBLY	
2-1. Sub Panel Assy	12
2-2. CD Mechanism Block	12
2-3. Main Board	13
2-4. Servo Board	13
2-5. Chassis (T) Sub Assy	14
2-6. Roller Arm Assy	14
2-7. Chassis (OP) Assy	15
3. DIAGNOSIS FUNCTION	16
4. DIAGRAMS	
4-1. Block Diagram –Main Section–	19
4-2. Block Diagram –Display Section–	20
4-3. Printed Wiring Board –Main Section–	21
4-4. Schematic Diagram –Main Section (1/3)–	22
4-5. Schematic Diagram –Main Section (2/3)–	23
4-6. Schematic Diagram –Main Section (3/3)–	24
4-7. Printed Wiring Board –Sub Section–	25
4-8. Schematic Diagram –Sub Section–	26
4-9. Printed Wiring Board –Key Section–	27
4-10. Schematic Diagram –Key Section–	28
5. EXPLODED VIEWS	
5-1. Main Section	33
5-2. Front Panel Section	34
5-3. CD Mechanism Section (MG-101FA-188//Q)	35
6. ELECTRICAL PARTS LIST	36

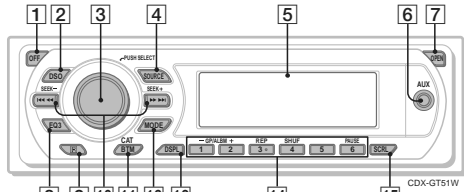
SECTION 1
GENERAL

This section is extracted from instruction manual.

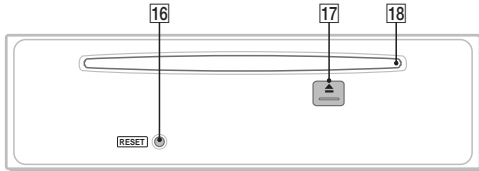
• LOCATION OF CONTROLS (CDX-GT51W: US)

Location of controls and basic operations

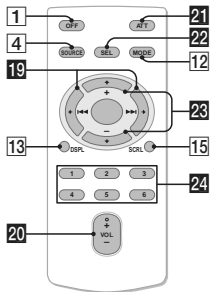
Main unit



Front panel removed



Card remote commander
RM-X151



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

- 1 OFF button**
To power off; stop the source.
- 2 DSO button 4**
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.
- 3 Volume control dial/select button 9**
To adjust volume (rotate); select setup items (press and rotate).
- 4 SOURCE button**
To power on; change the source (Radio/CD/MD*/AUX/SAT*2).
- 5 Display window**
- 6 AUX input jack 10**
To connect a portable audio device.
- 7 OPEN button 5**

- 8 EQ3 (equalizer) button 9**
To select an equalizer type (XPLD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 9 Receptor for the card remote commander**
- 10 SEEK +/- buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
- 11 BTM/CAT*2 button 8**
To start the BTM function (press and hold).
- 12 MODE button 8, 11**
To select the radio band (FM/AM); select the SAT tuner band (mode)*2; select the unit*3.
- 13 DSPL (display) button 8**
To change display items.
- 14 Number buttons**
CD/MD*1:
①/②: GP*/ALBM*5 +/-
To skip albums (press); skip albums continuously (press and hold).*6
③: REP 8, 11
④: SHUF 8, 11
⑤: PAUSE*7
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 15 SCRL (scroll) button 8**
To scroll the display item.
- 16 RESET button 4**
- 17 (eject) button 5**
To eject the disc.
- 18 Disc slot 5**
To insert the disc.

The following buttons on the card remote commander have also different buttons/functions from the unit. Remove the insulation film before use (page 4).

- 19 (SEEK) buttons**
To control CD/radio, the same as (SEEK) +/- on the unit.
- 20 VOL (volume) +/- button**
To adjust volume.
- 21 ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
- 22 SEL (select) button**
The same as the select button on the unit.
- 23 (SEEK) buttons**
To control CD, the same as ①/② (GP*/ALBM +/-) on the unit.
- 24 Number buttons**
To receive stored stations (press); store stations (press and hold).

*1 When an MD changer is connected.
*2 When the SAT tuner is connected.
*3 When a CD/MD changer is connected.
*4 When an ATRAC CD is played.
*5 When an MP3/WMA/AAC is played.
*6 If the changer is connected, the operation is different, see page 11.
*7 When playing back on this unit.

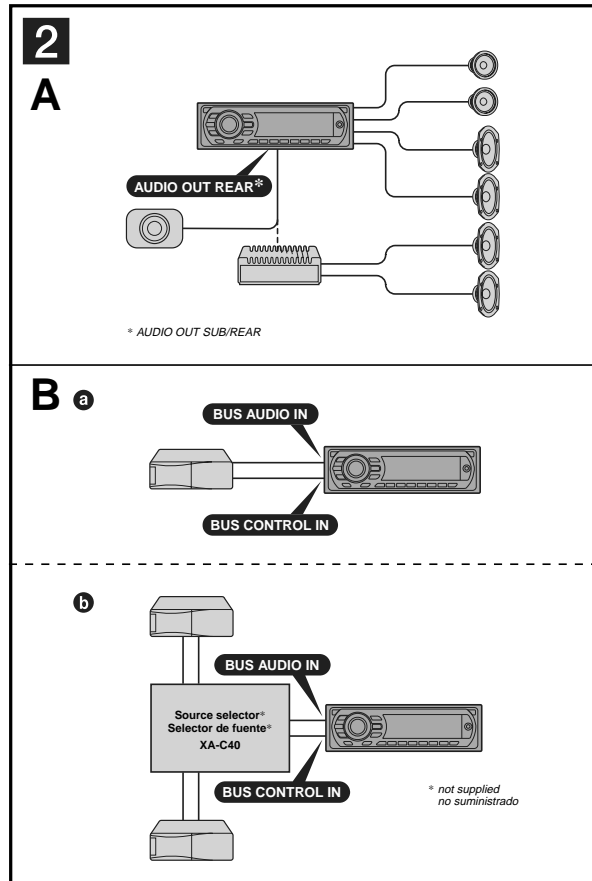
Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 14.

6

7

• CONNECTIONS (CDX-GT51W: US)

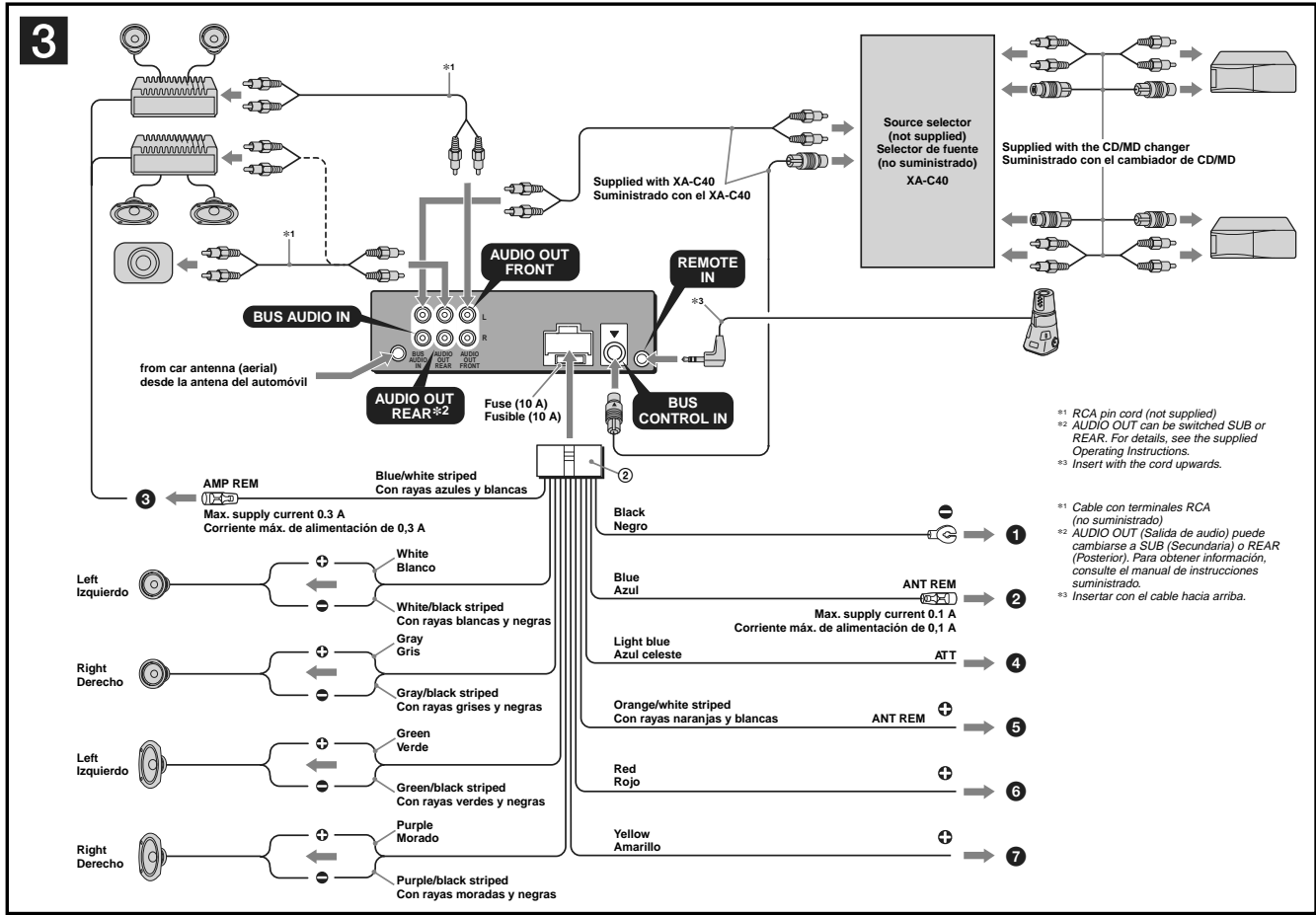


Connection example 2

- Notes (B-A)**
- Be sure to connect the ground (earth) lead before connecting the amplifier.
 - The alarm will only sound if the built-in amplifier is used.
- Tip (B-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

Ejemplo de conexiones 2

- Notas (B-A)**
- Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.
 - La alarma sonará únicamente si se utiliza el amplificador incorporado.
- Sugerencia (B-B-b)**
Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C40 (no suministrado).



*1 RCA pin cord (not supplied)
 *2 AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.
 *3 Insert with the cord upwards.

*4 Cable con terminales RCA (no suministrado)
 *5 AUDIO OUT (Salida de audio) puede cambiarse a SUB (Secundaria) o REAR (Posterior). Para obtener información, consulte el manual de instrucciones suministrado.
 *6 Insertar con el cable hacia arriba.

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**
Notes
 • It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
 • When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- 3 To AMP REMOTE IN of an optional power amplifier**
 This connection is only for amplifiers. Connecting any other system may damage the unit.
- 4 To the interface cable of a car telephone**
 Be sure to connect the black ground (earth) lead to a metal surface of the car first.
- 5 To the +12 V power terminal which is energized in the accessory position of the ignition switch**
Notes
 • If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
 • Be sure to connect the black ground (earth) lead to a metal surface of the car first.
 • When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- 7 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

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

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

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

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

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**
Notes
 • Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
 • Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- 3 A AMP REMOTE IN de un amplificador de potencia opcional**
 Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- 4 Al cable de interfaz de un teléfono para automóvil**
- 5 A una fuente de iluminación del automóvil**
 Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- 6 Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido**
Notes
 • Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
 • Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
 • Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- 7 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.

Notes sobre los cables de control y de fuente de alimentación

- El cable de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de telé.

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.

Notes sobre la conexión de los altavoces

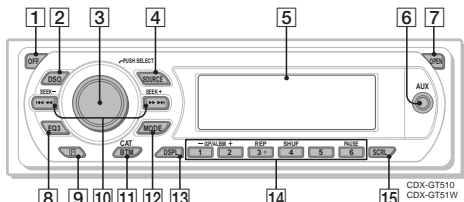
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con 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 fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (-) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

Note sobre la conexión
 Si el altavoz no está conectado correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión del altavoz.

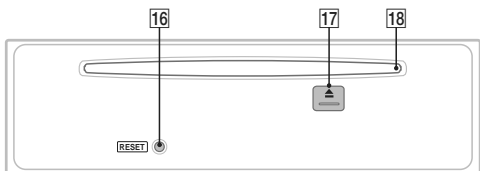
• LOCATION OF CONTROLS (CDX-GT51W: CND/GT510)

Location of controls and basic operations

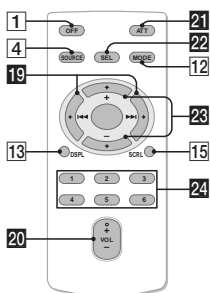
Main unit



Front panel removed



Card remote commander RM-X151

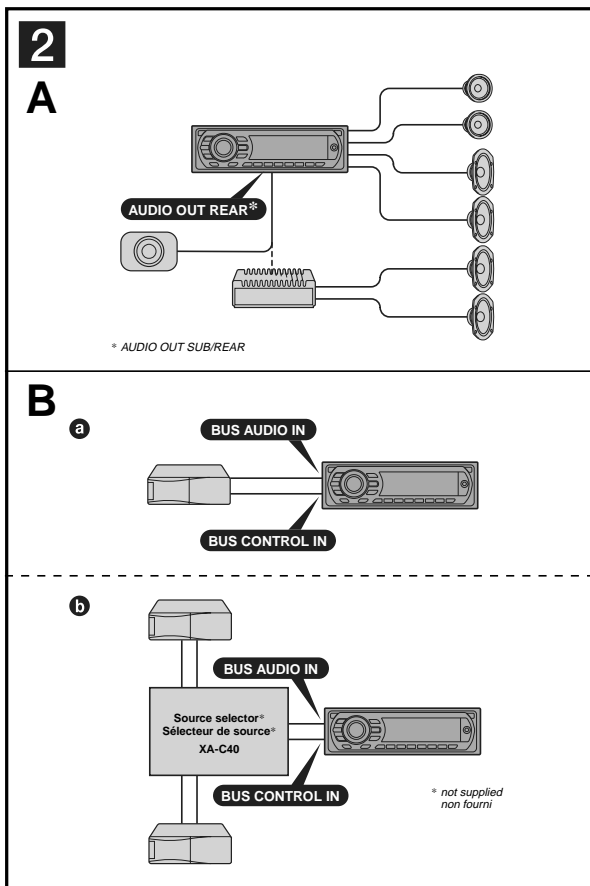


Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

- 1 **OFF button**
To power off; stop the source.
- 2 **DSO button 4**
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.
- 3 **Volume control dial/select button 9**
To adjust volume (rotate); select setup items (press and rotate).
- 4 **SOURCE button**
To power on; change the source (Radio/CD/MD*/AUX/SAT**).
- 5 **Display window**
- 6 **AUX input jack 10**
To connect a portable audio device.
- 7 **OPEN button 5**
- 8 **EQ3 (equalizer) button 9**
To select an equalizer type (XPLD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 9 **Receptor for the card remote commander**
- 10 **SEEK +/- buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
- 11 **BTM/CAT** button 8**
To start the BTM function (press and hold).
- 12 **MODE button 8, 11**
To select the radio band (FM/AM); select the SAT tuner band (mode)**; select the unit**.
- 13 **DSPL (display) button 8**
To change display items.
- 14 **Number buttons**
CD/MD**:
①/②: GP*/ALBM** +/-
To skip albums (press); skip albums continuously (press and hold).**
③: REP 8, 11
④: SHUF 8, 11
⑤: PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 15 **SCRL (scroll) button 8**
To scroll the display item.
- 16 **RESET button 4**
- 17 **Eject button 5**
To eject the disc.
- 18 **Disc slot 5**
To insert the disc.
- 19 **Receptor for the card remote commander**
To control CD/radio, the same as (SEEK) +/- on the unit.
- 20 **VOL (volume) +/- button**
To adjust volume.
- 21 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
- 22 **SEL (select) button**
The same as the select button on the unit.
- 23 **↑ (+)/↓ (-) buttons**
To control CD, the same as ①/② (GP*/ALBM +/-) on the unit.
- 24 **Number buttons**
To receive stored stations (press); store stations (press and hold).

- *1 When an MD changer is connected.
 - *2 When the SAT tuner is connected.
 - *3 When a CD/MD changer is connected.
 - *4 When an ATRAC CD is played.
 - *5 When an MP3/WMA/AAC is played.
 - *6 If the changer is connected, the operation is different, see page 11.
 - *7 When playing back on this unit.
- Note**
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.
- Tip**
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 14.

• CONNECTIONS (CDX-GT51W: CND/GT510)

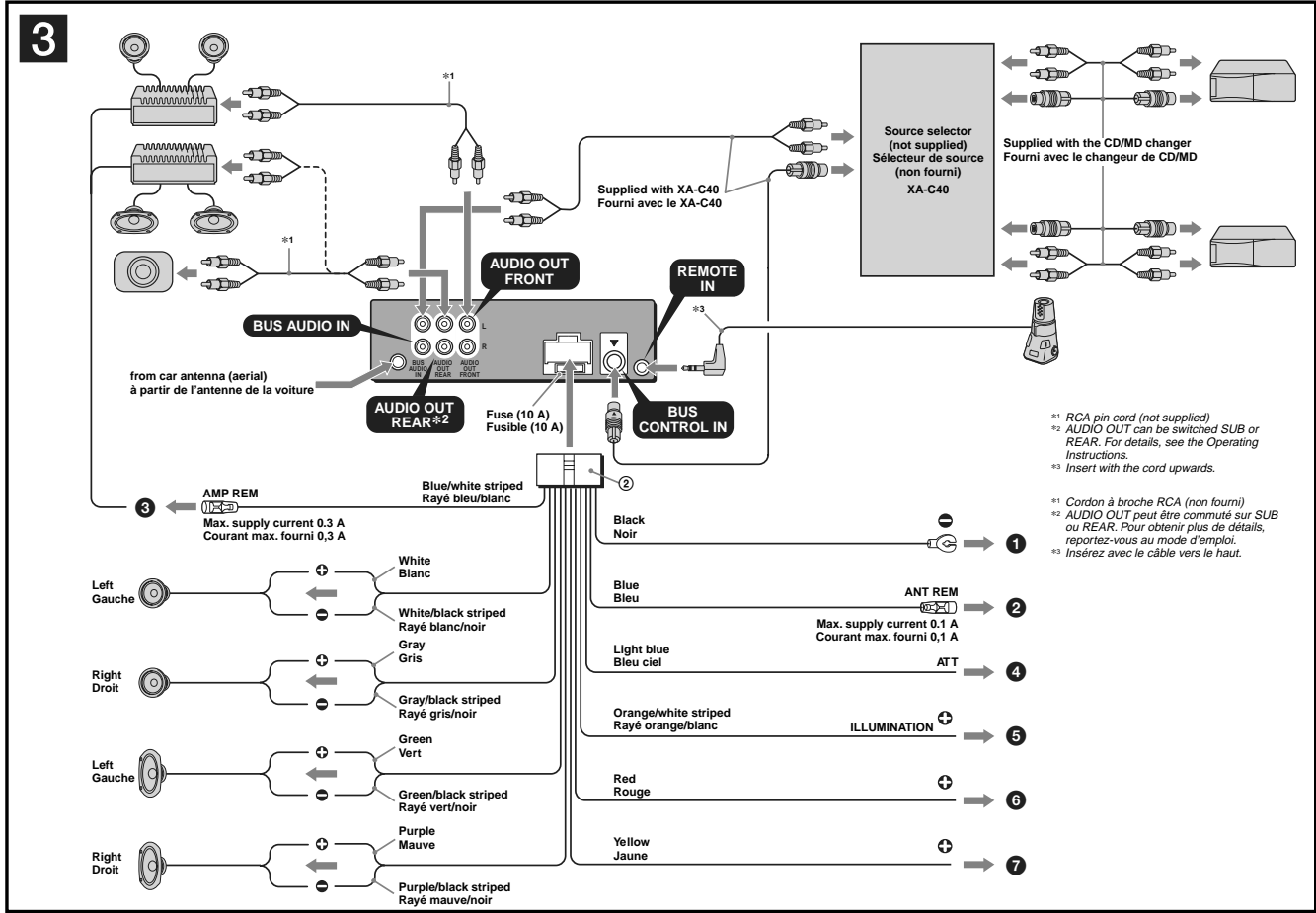


Connection example 2

- Notes (B-A)**
- Be sure to connect the ground (earth) lead before connecting the amplifier.
 - The alarm will only sound if the built-in amplifier is used.
- Tip (B-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

Exemple de raccordement 2

- Remarques (B-A)**
- Raccordez d'abord le câble de mise à la masse avant de raccorder l'amplificateur.
 - L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.
- Conseil (B-B-b)**
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C40 (non fourni) est requis.



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
• It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
• When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone**
- To a car's illumination signal**
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

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

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

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

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

Schéma de raccordement 3

- À un point métallique de la voiture**
Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'entrée d'alimentation jaune et rouge.
- Vers le câble de commande d'antenne électrique ou le câble d'alimentation de l'amplificateur d'antenne**
Remarques
• Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- Vers le cordon de liaison d'un téléphone de voiture**
- 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 +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
Remarques
• S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne +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 de commande d'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou l'entrée 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'entrée 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

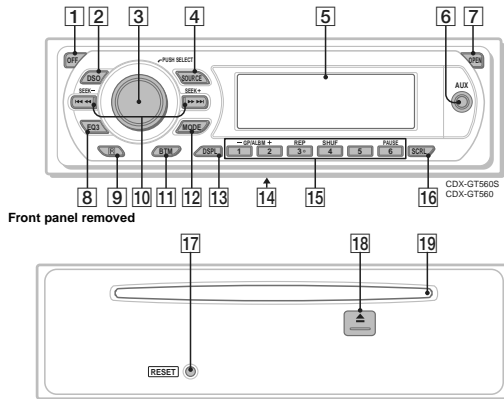
- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs 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 partage un câble négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

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

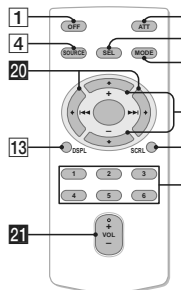
• LOCATION OF CONTROLS (CDX-GT560: E, MX/GT560S)

Location of controls and basic operations

Main unit



Card remote commander RM-X151



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

- 1 **OFF button**
To power off; stop the source.
- 2 **DSO button 4**
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.
- 3 **Volume control dial/select button 9**
To adjust volume (rotate); select setup items (press and rotate).
- 4 **SOURCE button**
To power on; change the source (Radio/CD/MD**/AUX).
- 5 **Display window**
- 6 **AUX input jack 10**
To connect a portable audio device.
- 7 **OPEN button 5**

- 8 **EQ3 (equalizer) button 9**
To select an equalizer type (XPLD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 9 **Receptor for the card remote commander**
- 10 **SEEK +/- buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
- 11 **BTM button 8**
To start the BTM function (press and hold).
- 12 **MODE button 8, 11**
To select the radio band (FM/AM); select the unit**.
- 13 **DSPL (display) button 8**
To change display items.
- 14 **Frequency select switch** (located on the bottom of the unit)
See "Frequency select switch" in the supplied installation/connections manual.
- 15 **Number buttons**
CD/MD**:
①/②: GP**/ALBM**⁴ +/-
To skip albums (press); skip albums continuously (press and hold).⁵
③: REP 8, 11
④: SHUF 8, 11
⑤: PAUSE⁶
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 16 **SCRL (scroll) button 8**
To scroll the display item.
- 17 **RESET button 4**
- 18 **▲ (eject) button 5**
To eject the disc.
- 19 **Disc slot 5**
To insert the disc.

The following buttons on the card remote commander have also different buttons/functions from the unit. Remove the insulation film before use (page 4).

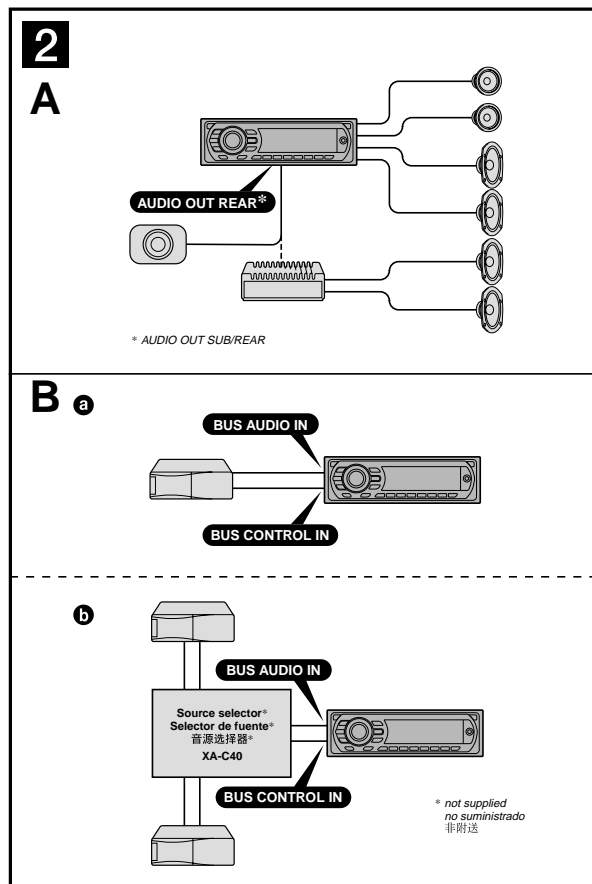
- 20 **◀ (◀◀) / ▶ (▶▶) buttons**
To control CD/radio, the same as (SEEK) +/- on the unit.
- 21 **VOL (volume) +/- button**
To adjust volume.
- 22 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
- 23 **SEL (select) button**
The same as the select button on the unit.
- 24 **↑ (+) / ↓ (-) buttons**
To control CD, the same as ①/② (GP/ALBM +/-) on the unit.
- 25 **Number buttons**
To receive stored stations (press); store stations (press and hold).

*1 When an MD changer is connected.
*2 When a CD/MD changer is connected.
*3 When an ATRAC CD is played.
*4 When an MP3/WMA/AAC is played.
*5 If the changer is connected, the operation is different, see page 11.
*6 When playing back on this unit.

Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 14.

• CONNECTIONS (CDX-GT560: E, MX/GT560S)



Connection example 2

- Notes (B-A)**
- Be sure to connect the ground (earth) lead before connecting the amplifier.
 - The alarm will only sound if the built-in amplifier is used.
- Tip (B-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

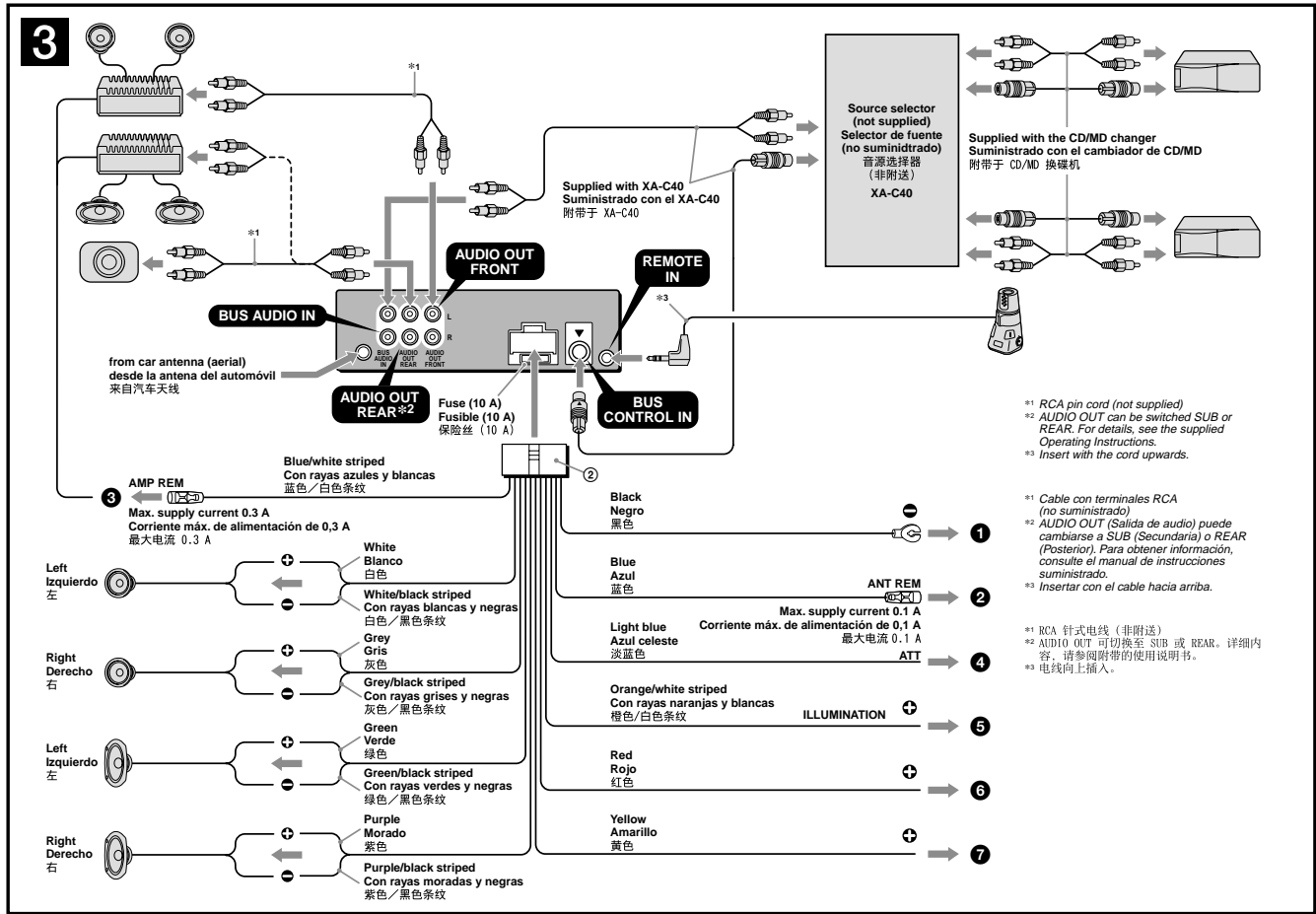
Ejemplo de conexiones 2

- Notas (B-A)**
- Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.
 - La alarma sonará únicamente si se utiliza el amplificador incorporado.
- Sugerencia (B-B-b)**
Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C40 (no suministrado).

线路连接图例 2

- 注 (B-A)**
- 务必在连接放大器之前连接接地线。
 - 只有在使用内置的放大器时，警报才会发出声响。
- 提示 (B-B-b)**
若要连接 2 台或更多 CD/MD 换碟机，必须使用音源选择器 XA-C40 (非附送)。

CDX-GT51W/GT510/GT560/GT560S



*1 RCA pin cord (not supplied)
 *2 AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.
 *3 Insert with the cord upwards.

*1 Cable con terminales RCA (no suministrado)
 *2 AUDIO OUT (Salida de audio) puede cambiarse a SUB (Secundaria) o REAR (Posterior). Para obtener información, consulte el manual de instrucciones suministrado.
 *3 Insertar con el cable hacia arriba.

*1 RCA 针式电线 (非附送)
 *2 AUDIO OUT 可切换至 SUB 或 REAR。详细内容，请参阅附带的用户手册。
 *3 电线向上插入。

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
 • It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
 • When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier**
 This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone**
- To a car's illumination signal**
 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

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

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

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

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

Diagrama de conexión 3

- A una superficie metálica del automóvil**
 Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de entrada de alimentación.
- Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
 Notes
 • Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
 • Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- A AMP REMOTE IN de un amplificador de potencia opcional**
 Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- Al cable de interfaz de un teléfono para automóvil**
- A una señal de iluminación del automóvil**
 Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido**
 Notes
 • Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
 • Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
 • Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- 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 de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria
 Si conecta el cable de entrada 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 de 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 fallos 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.

线路连接图 3

- 至汽车金属表面**
 首先连接黑色接地导线，然后连接黄色和红色电源输入导线。
- 至电动天线控制导线或天线升降放大器的电源导线**
 注
 • 如果没有电动天线或天线升降器，或有手动伸缩式天线，则无需连接此导线。
 • 若汽车的后/侧玻璃窗内有内置 FM/AM 天线，请参阅“关于控制导线和电源导线的注意事项”。
- 至选购的功率放大器的 AMP REMOTE IN**
- 至车载电话接口电缆**
- 至汽车照明信号**
 必须先将黑色接地导线连接至汽车金属表面。
- 至 +12 V 电源端子，该端子在点火开关附件位置通电**
 注
 • 如果没有附件位置，则连接至 +12 V 电源（蓄电池）端子，该端子随时处于通电状态。
 • 确保首先将黑色接地导线连接至汽车金属表面。
 • 若汽车的后/侧玻璃窗内有内置 FM/AM 天线，请参阅“关于控制导线和电源导线的注意事项”。
- 至 +12 V 电源端子，该端子随时处于通电状态**
 确保首先将黑色接地导线连接至汽车金属表面。

关于控制导线和电源导线的注意事项

- 接通调谐器电源时，电动天线的控制导线（蓝色）便能提供 +12 V 直流电。
- 当汽车的后/侧玻璃窗上有内置 FM/AM 天线时，请将电动天线控制线（蓝色）或辅助电源输入电线（红色）连接至现有天线升降器上的电源端子上。详细说明，请与您的经销商联系。
- 本机不能与不具备车载收音机的电动天线。

保持记忆的线路连接法
 当连接了黄色的电源输入电线时，即使点火开关关闭，电源仍将记忆电路供电。

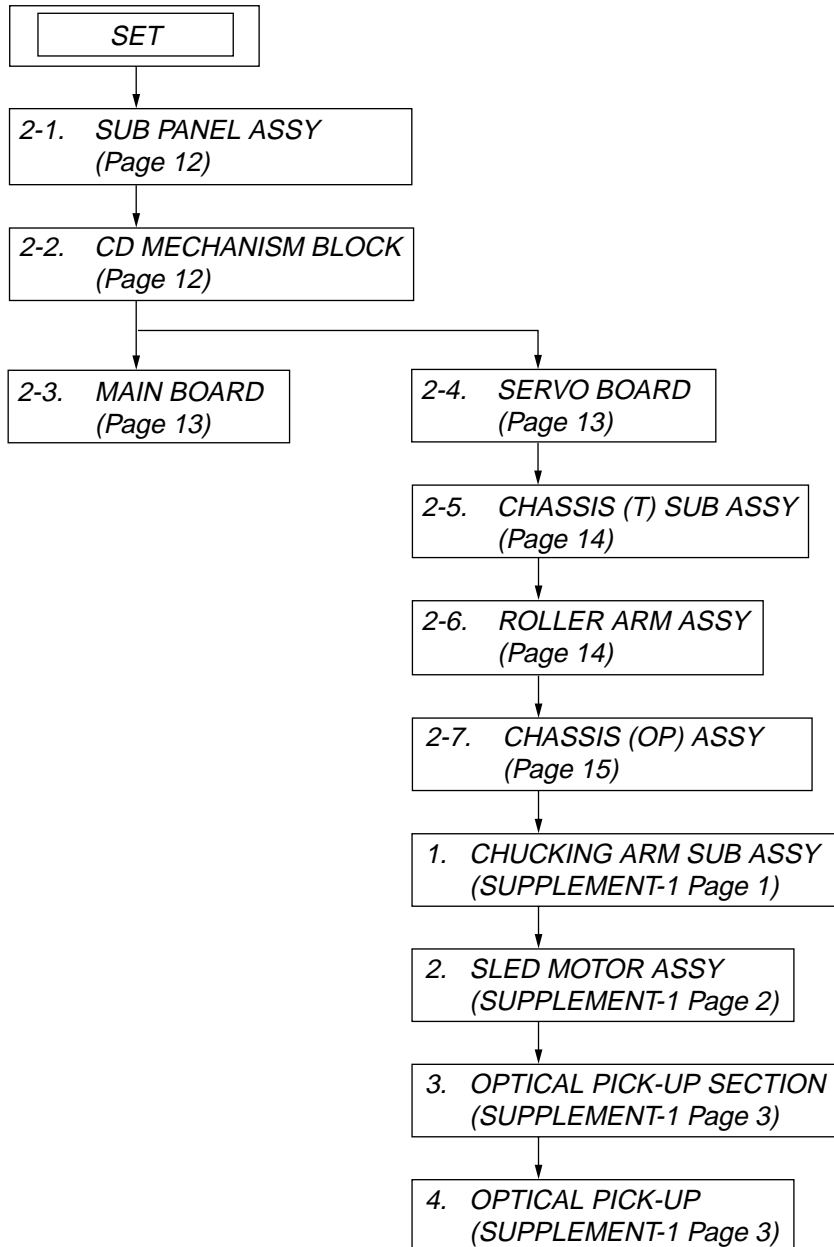
关于扬声器连接的注意事项

- 连接扬声器之前，请关闭本机电源。
- 请使用阻抗为 4-8 欧姆且具有足够功率处理能力的扬声器，以免损坏。
- 勿将扬声器端子连接到汽车底盘上，或将右扬声器的端子与左扬声器的端子连接。
- 勿将本机的接地线连接到扬声器的负极 (-) 端子上。
- 扬声器不可并联连接。
- 请仅连接无源扬声器。将有源扬声器（具有内置放大器）连接到扬声器端子可能会损坏本机。
- 若本机使用左、右扬声器的共用负极 (-) 电线，为了避免故障，切勿使用安装在汽车内的内置扬声器电线。
- 请勿将本机扬声器电线相互连接。

连接的注意事项
 如果没有正确连接扬声器和放大器，则显示屏上会出现 "FAILURE"。这时，请确保扬声器和放大器连接正确。

SECTION 2 DISASSEMBLY

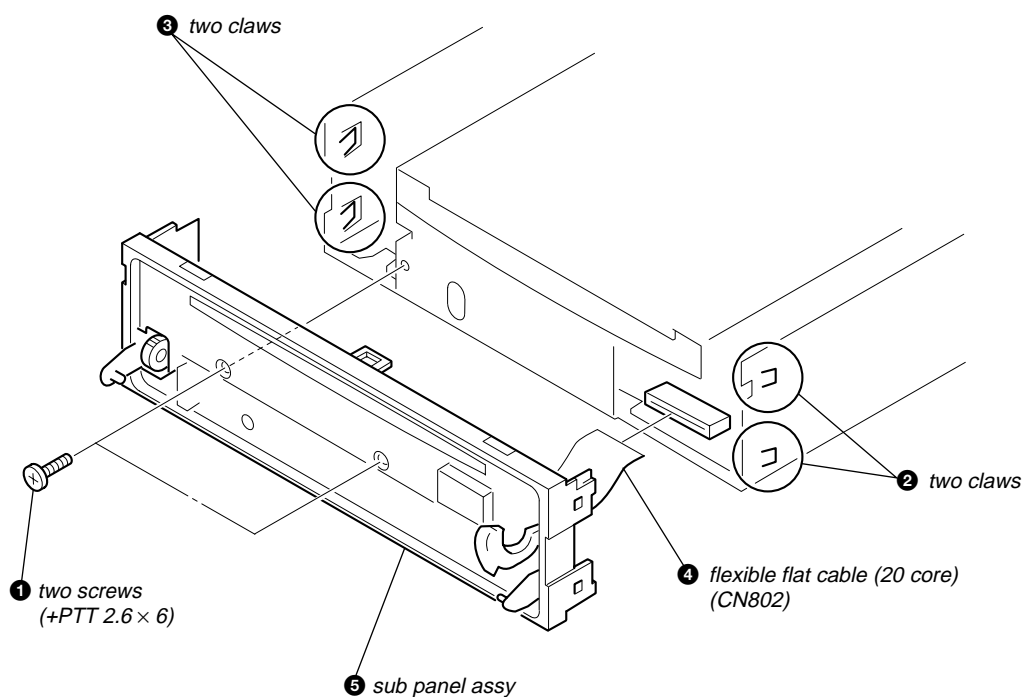
Note: This set can be disassemble according to the following sequence.



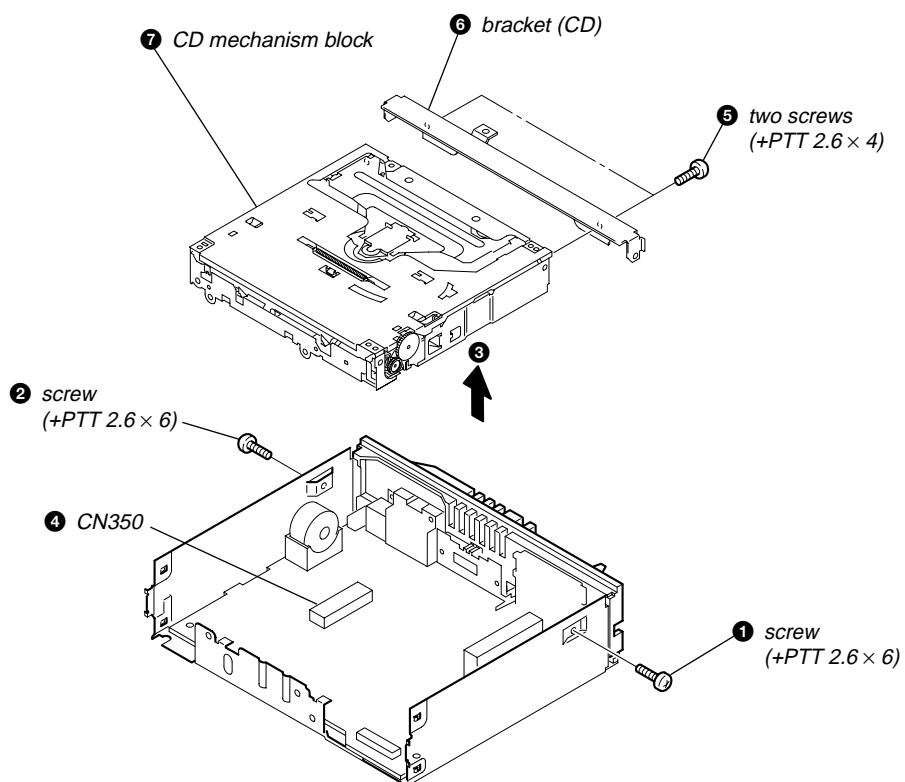
CDX-GT51W/GT510/GT560/GT560S

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

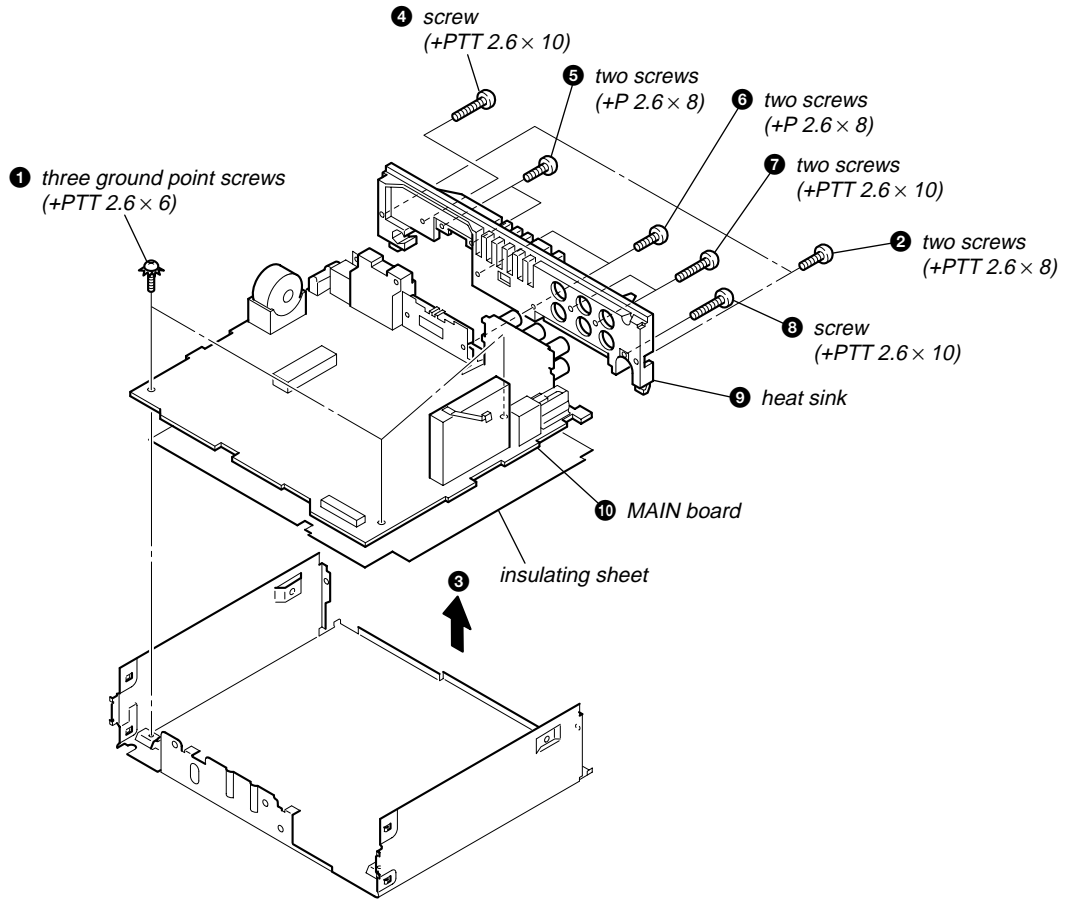
2-1. SUB PANEL ASSY



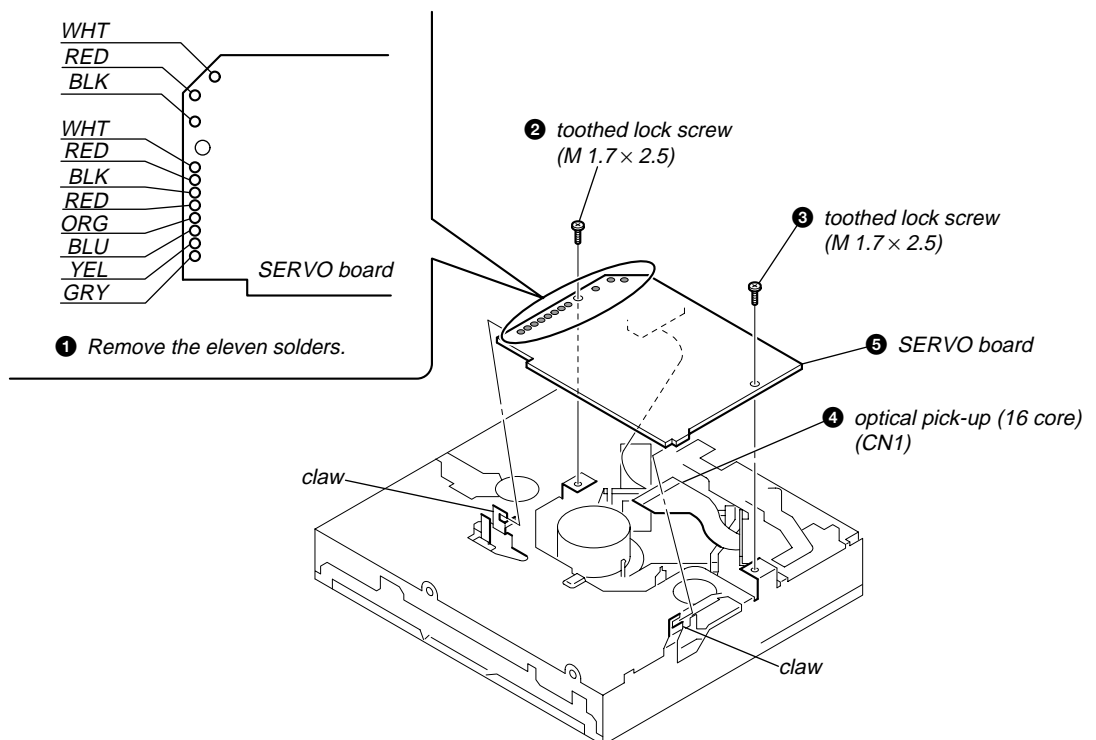
2-2. CD MECHANISM BLOCK



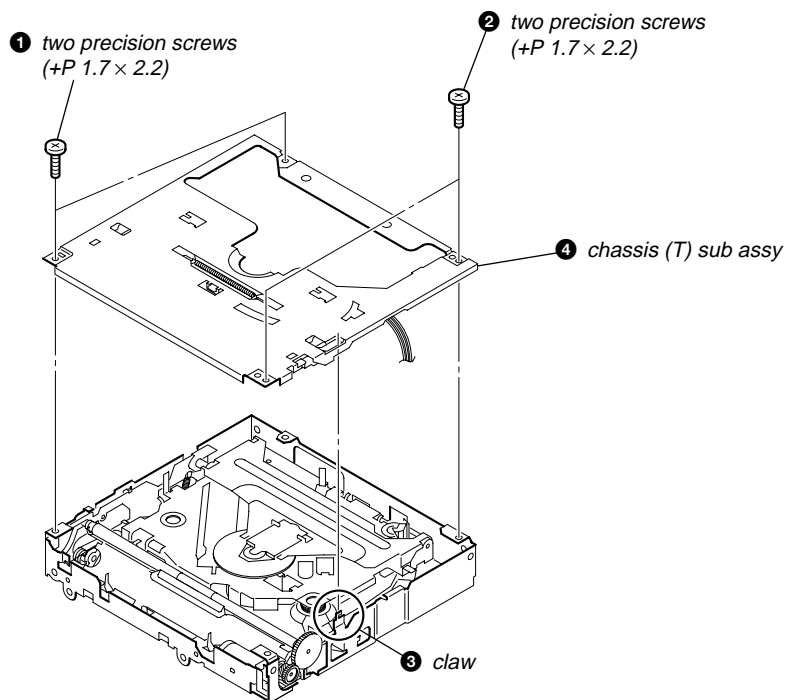
2-3. MAIN BOARD



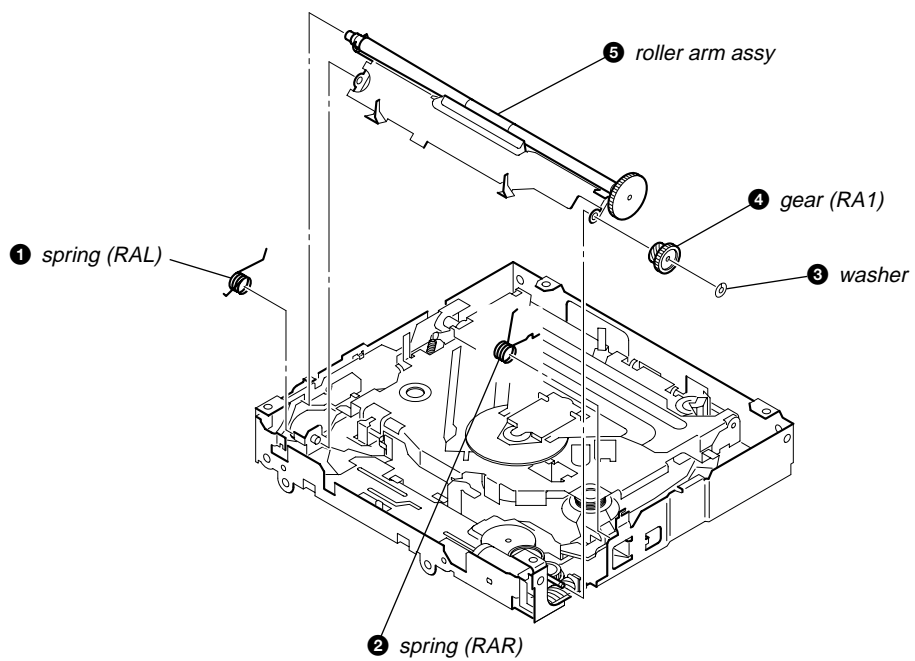
2-4. SERVO BOARD



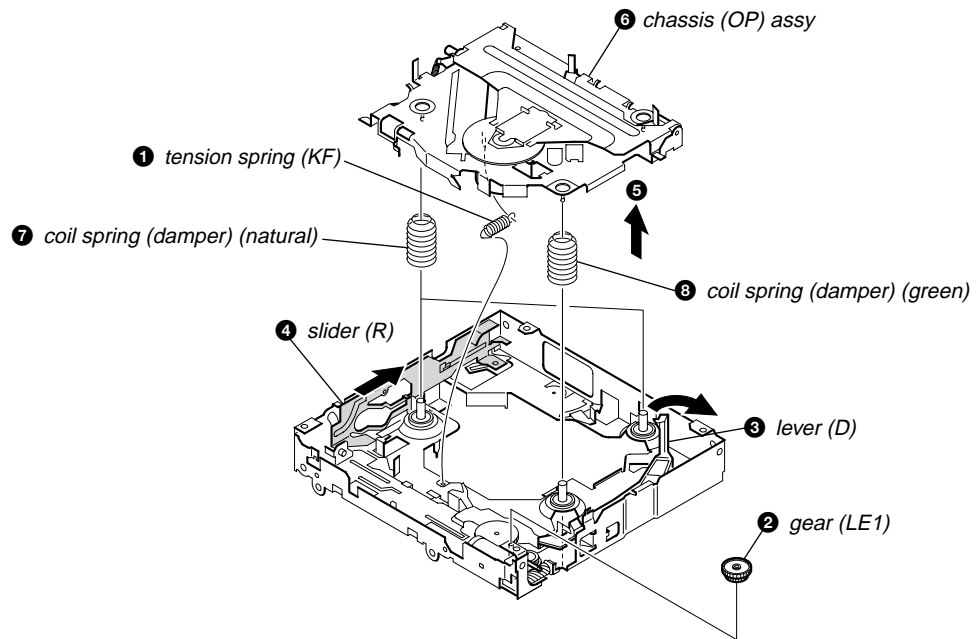
2-5. CHASSIS (T) SUB ASSY



2-6. ROLLER ARM ASSY



2-7. CHASSIS (OP) ASSY



SECTION 3 DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

With the power off, press the **[4/SHUF]** button, **[5]** button, and **[4/SHUF]** button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

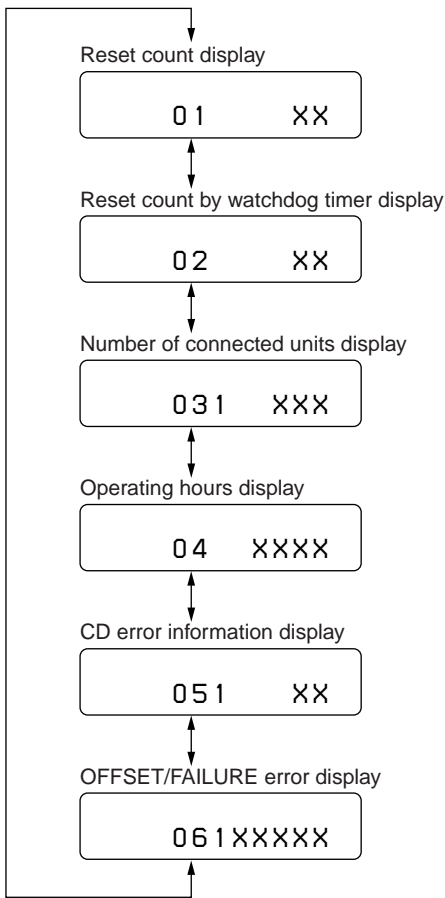
During the Diag function mode, press the **[OFF]** button.

3. Initial display in the Diag display mode.

Just when the Diag mode is entered, "reset count" is displayed.

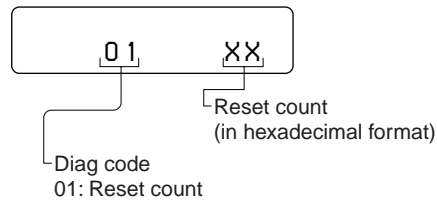
The display mode is switched by each rotation of

[▶▶▶▶/SEEK +] or **[◀◀◀◀/SEEK -]** buttons.

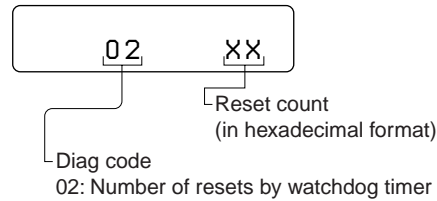


4. Contents of each display mode

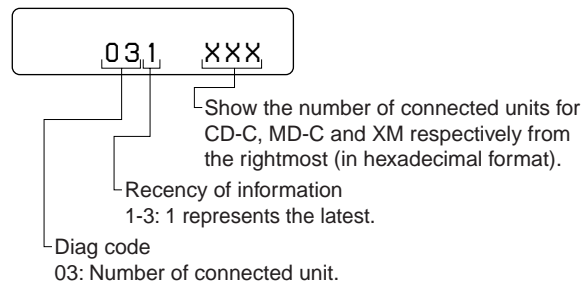
4-1. Reset count display mode



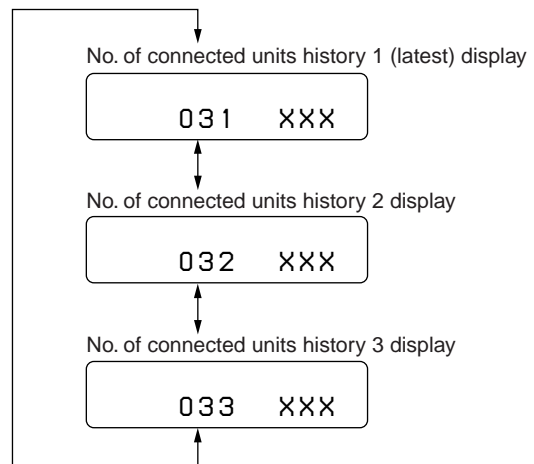
4-2. Reset count by watchdog timer display mode



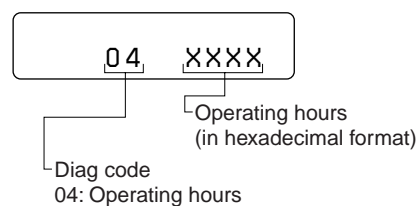
4-3. Number of connected units display mode



The display mode is switched by each rotation of **[2/GP/ALBM+]** or **[1/GP/ALBM-]** buttons during the number of connected units display mode.

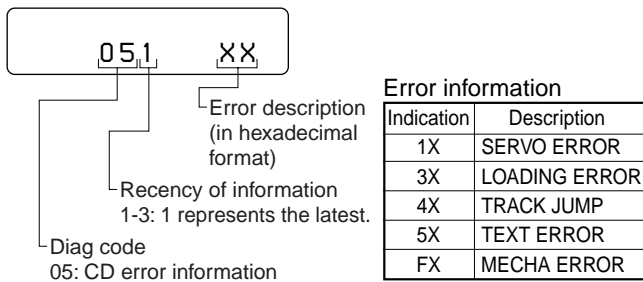


4-4. Operating hours display mode

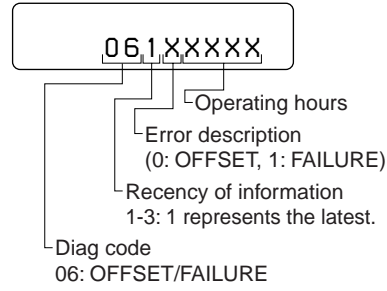


4-5. CD error information display mode

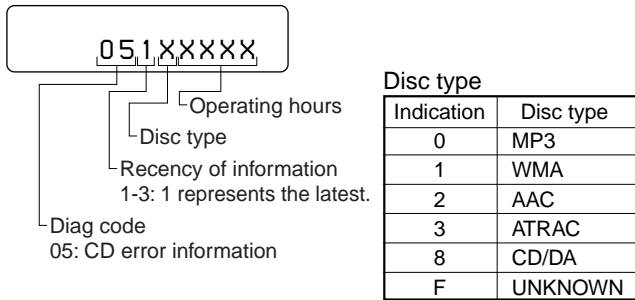
4-5-1. Error description



4-6. OFFSET/FAILURE error display mode

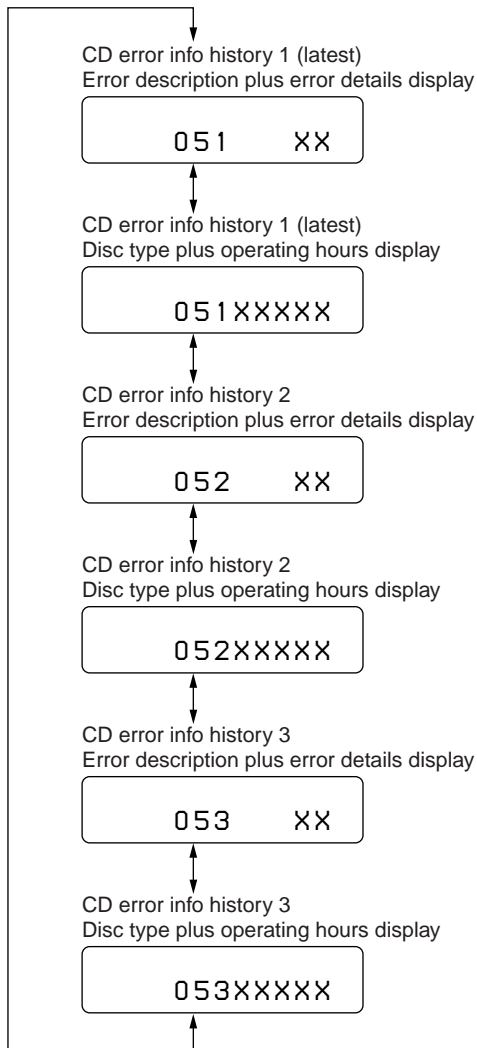
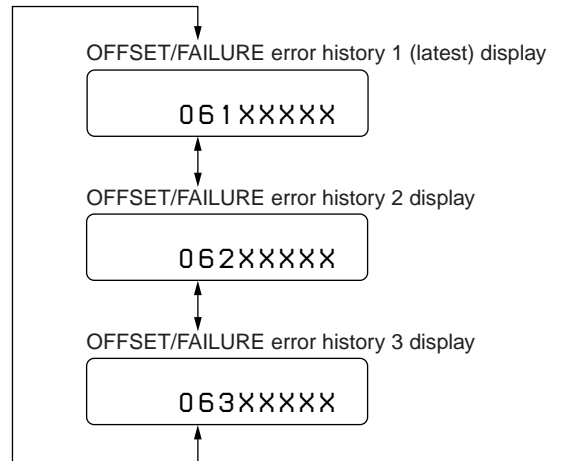


4-5-2. Disc type and operating hours



The display mode is switched by each rotation of [2/GP/ALBM+] or [1/GP/ALBM-] buttons during the OFFSET/FAILURE error display mode.

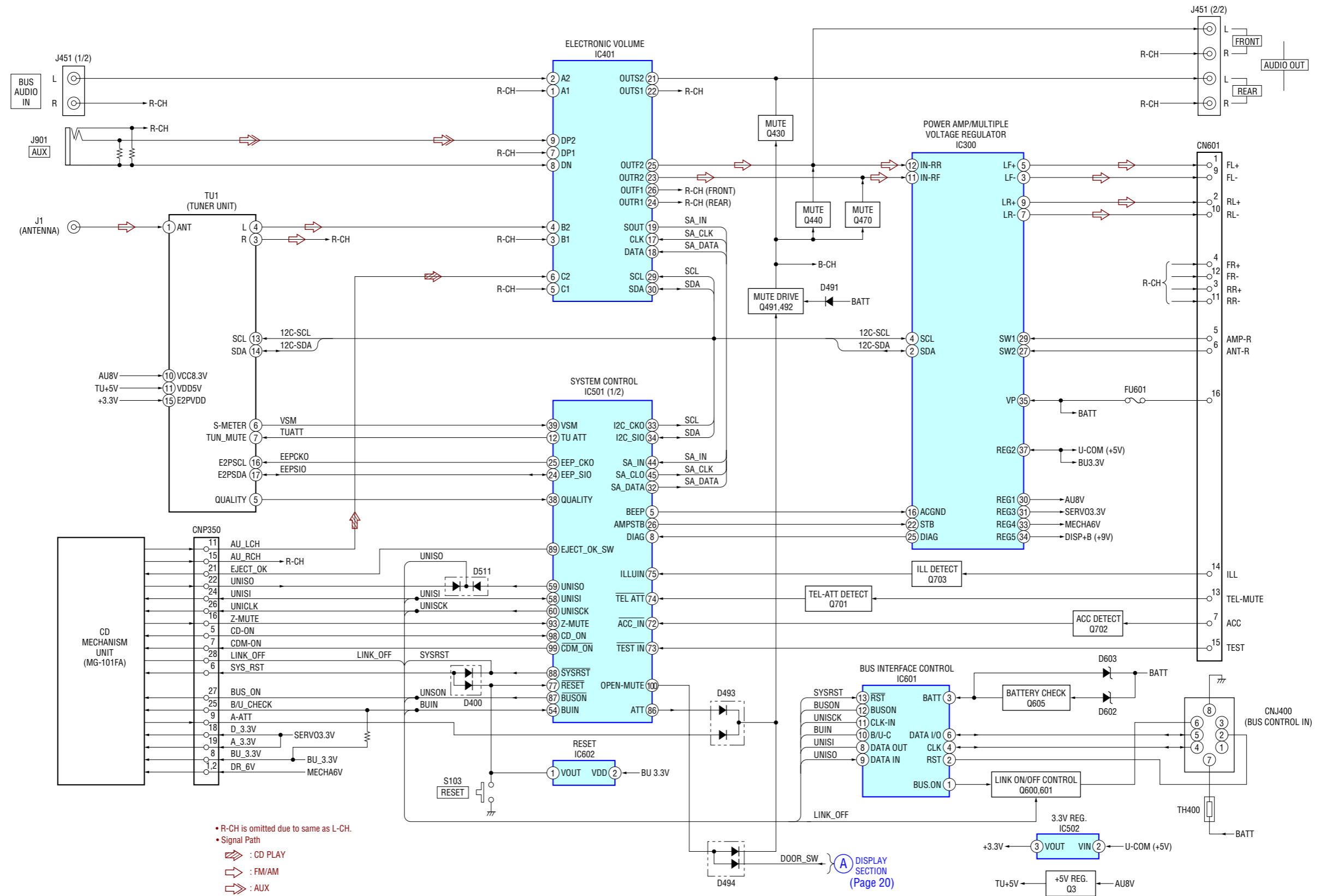
The display mode is switched by each rotation of [2/GP/ALBM+] or [1/GP/ALBM-] buttons during the CD error information display mode.



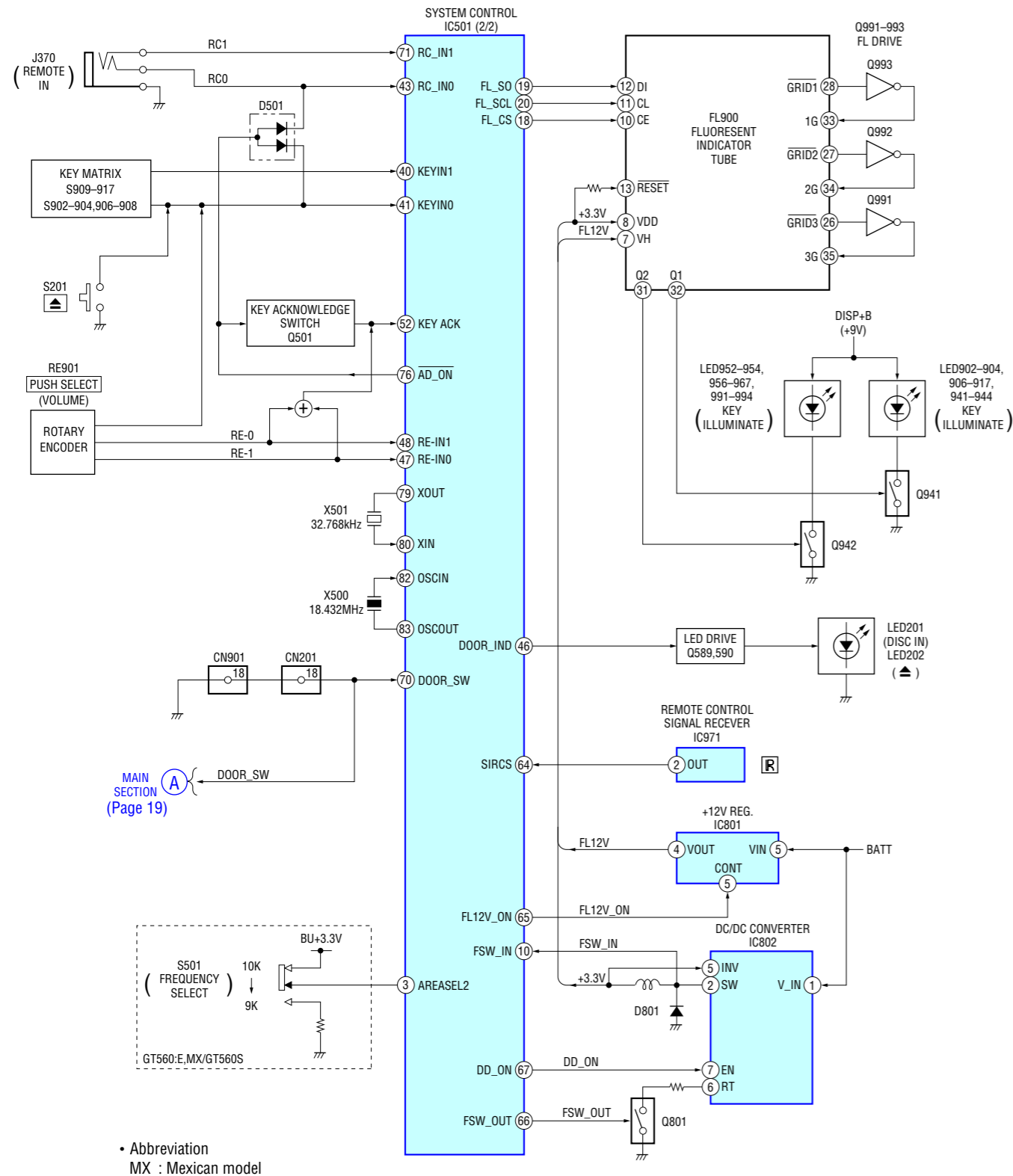
MEMO

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM — MAIN SECTION —



4-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC 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 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 $1/4\text{ W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.

Note:

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

Note:

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

- : B+ Line.
- - -** : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark : TUNER < > : CD PLAY * : Impossible to measure
- Voltages are taken with a 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. \Rightarrow : CD PLAY \Rightarrow : TUNER \Rightarrow : BUS AUDIO \Rightarrow : AUX
- Abbreviation CND : Canadian model. EA : Saudi Arabia model. MX : Mexican model.

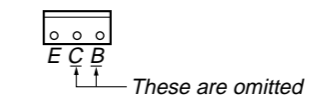
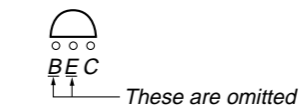
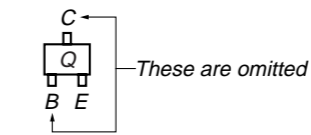
For printed wiring boards.

Note:

- \circ : parts extracted from the component side.
- \square : parts extracted from the conductor side.
- \circ : Through hole.
- \square : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:

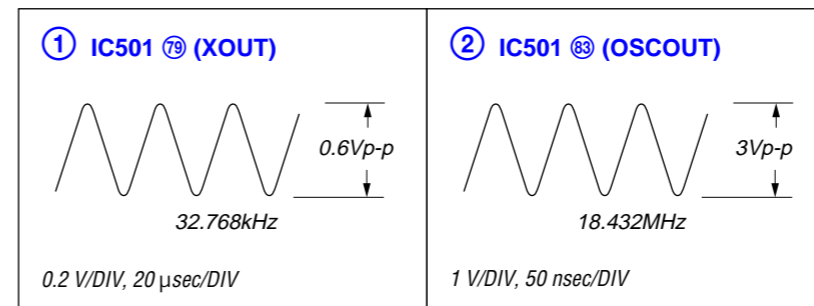
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.



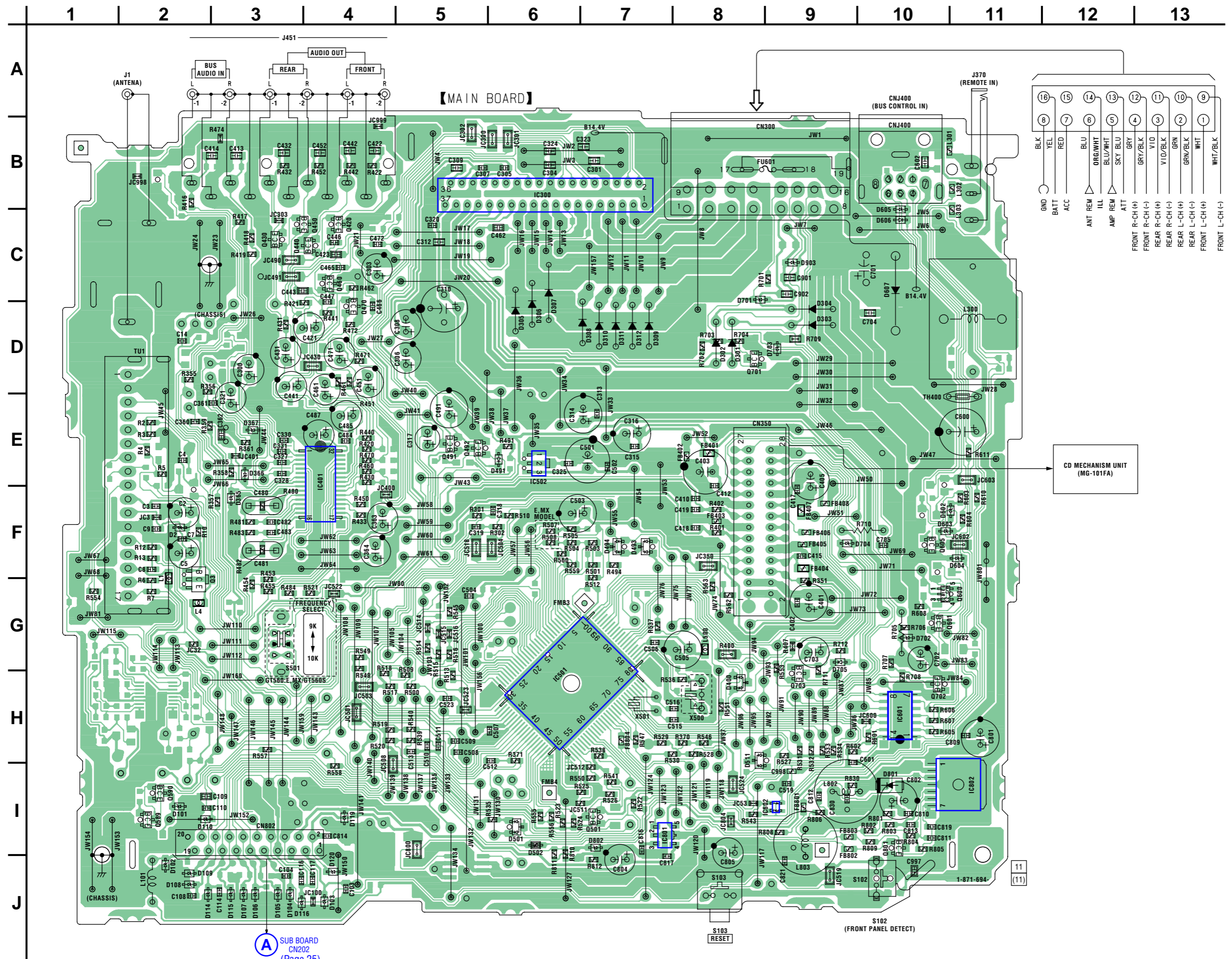
- Abbreviation CND : Canadian model. EA : Saudi Arabia model. MX : Mexican model.

• Waveforms

— MAIN Board —

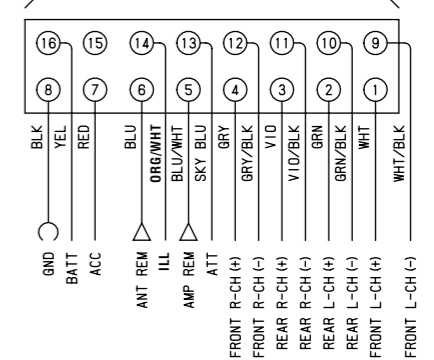


4-3. PRINTED WIRING BOARD — MAIN SECTION —  : Uses unleaded solder.



• Semiconductor Location

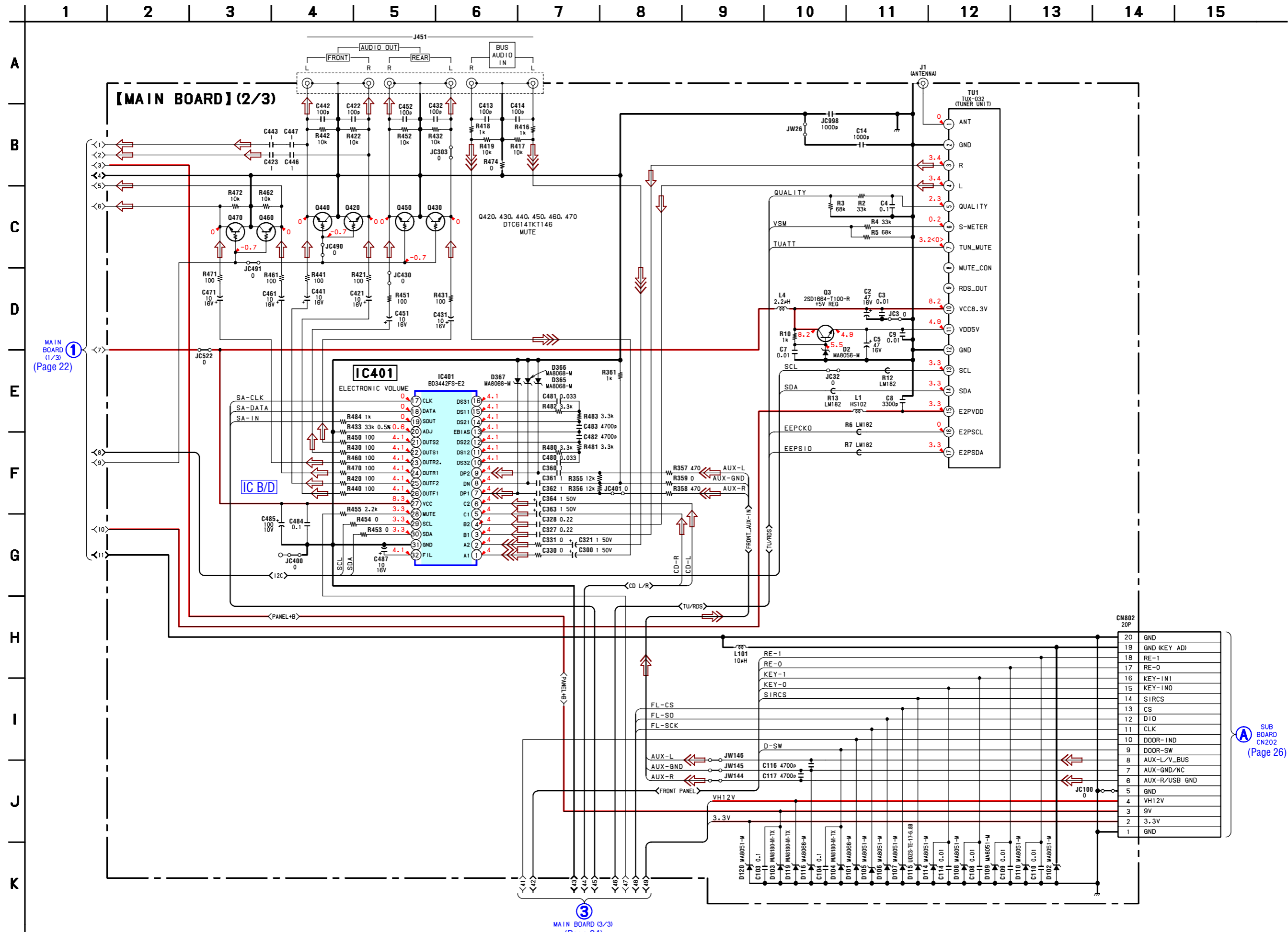
Ref. No.	Location
D2	F-2
D101	I-2
D102	J-2
D103	J-4
D104	J-3
D105	J-3
D106	J-3
D107	J-3
D108	J-2
D109	J-2
D110	I-2
D114	J-2
D115	J-3
D116	J-4
D119	I-4
D120	J-4
D301	D-8
D302	D-8
D303	D-9
D304	D-9
D305	D-6
D306	D-6
D307	D-6
D308	D-7
D309	D-7
D310	D-7
D311	D-7
D312	D-7
D365	F-3
D366	E-3
D367	E-3
D400	H-8
D491	E-6
D493	F-7
D494	F-7
D501	I-6
D502	I-6
D511	I-8
D602	F-10
D603	F-10
D604	F-11
D605	C-10
D606	C-10
D607	C-10
D701	D-8
D702	G-10
D703	D-9
D704	F-10
D705	G-9
D801	I-10
D802	I-7
D803	C-9
IC300	B-6
IC401	E-4
IC501	H-6
IC502	E-6
IC601	H-10
IC602	I-9
IC801	I-7
IC802	I-11
Q3	G-2
Q420	C-4
Q430	C-3
Q440	C-3
Q450	C-4
Q460	C-4
Q470	D-4
Q491	E-5
Q492	E-5
Q501	I-7
Q589	I-2
Q590	I-2
Q600	G-11
Q601	G-11
Q605	F-10
Q701	D-8
Q702	H-10
Q703	H-9
Q801	I-10



CD MECHANISM UNIT (MG-101FA)

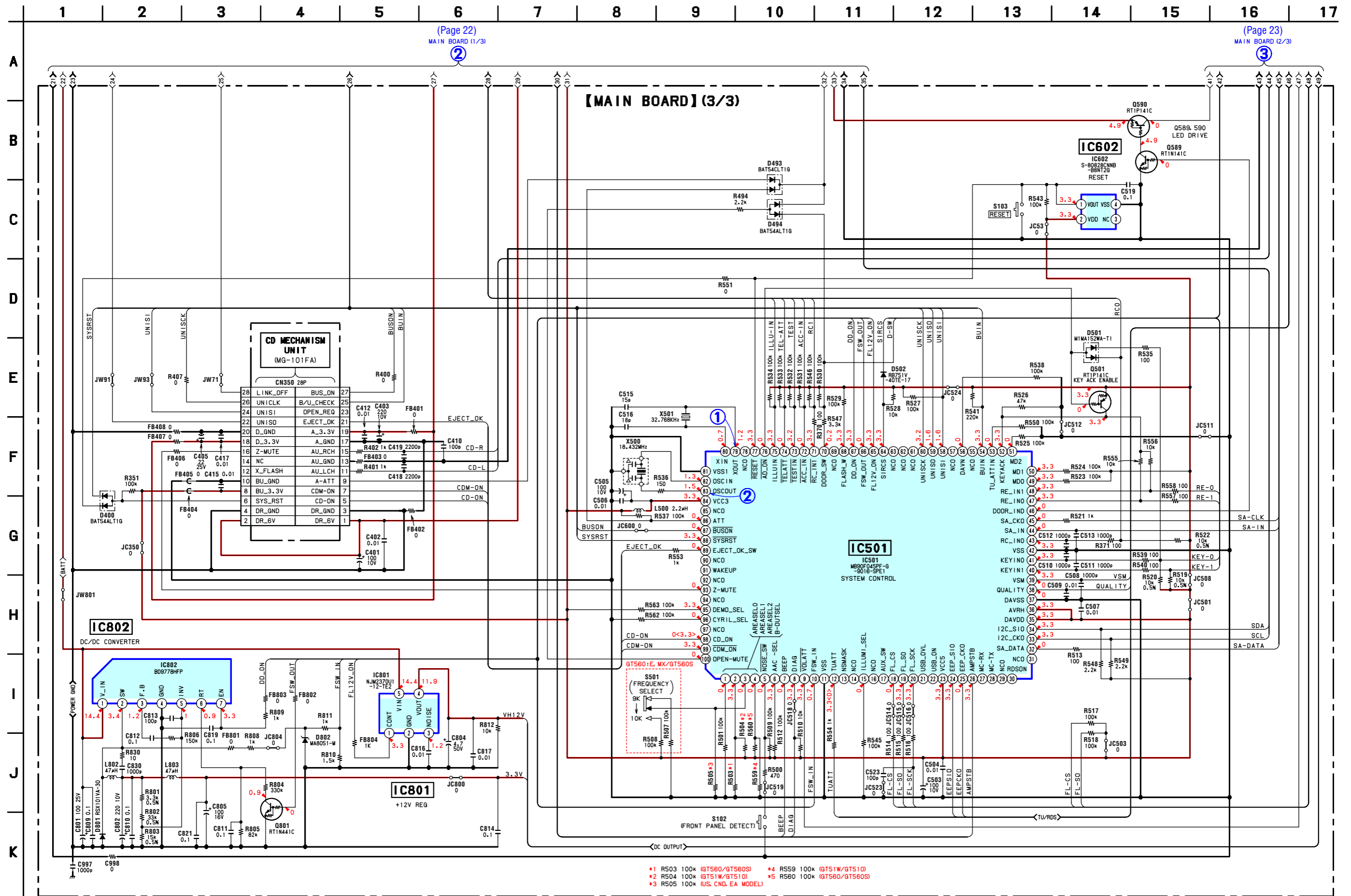
A SUB BOARD CN202 (Page 25)

4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 30 for IC Block Diagram.

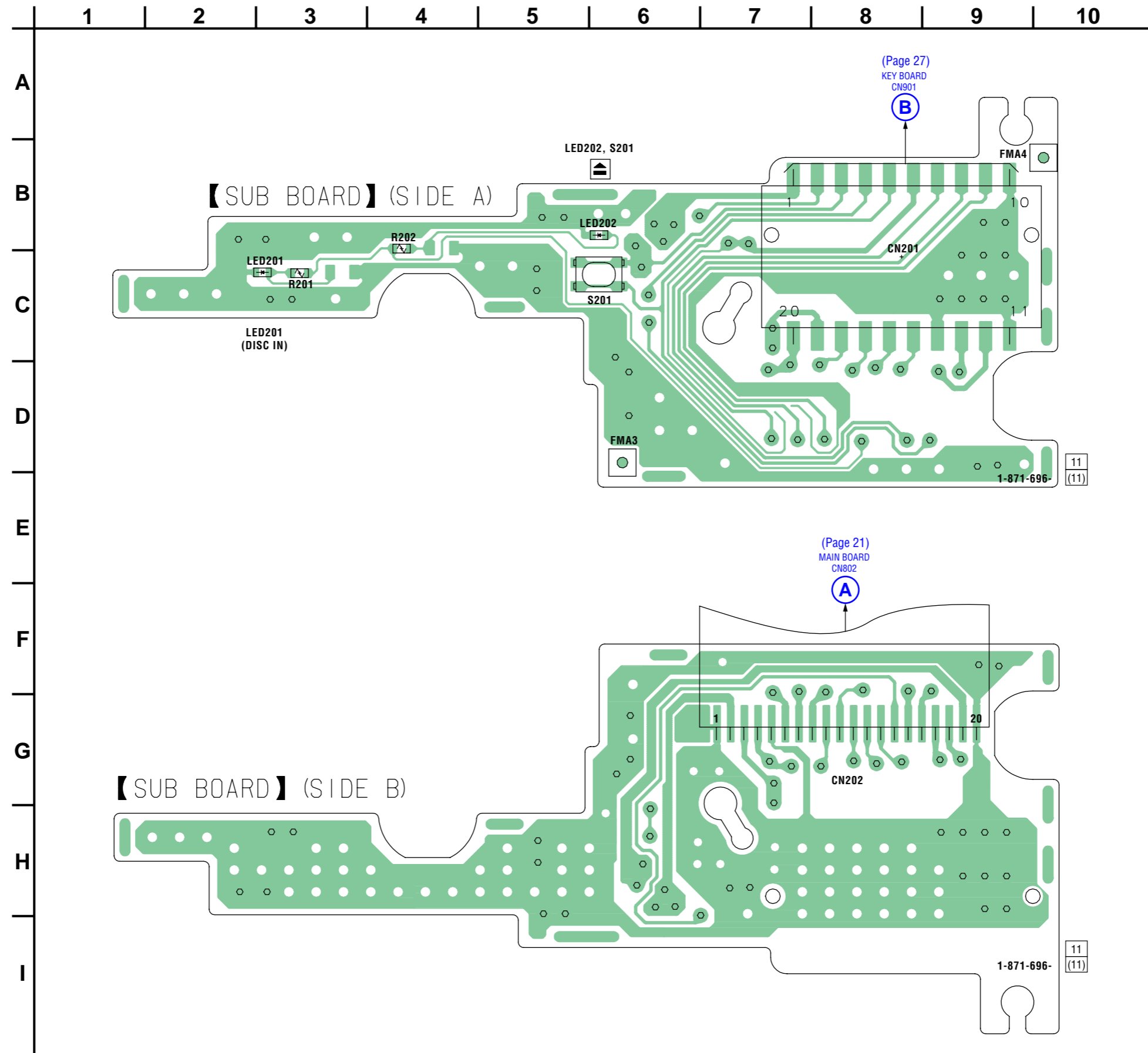


4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

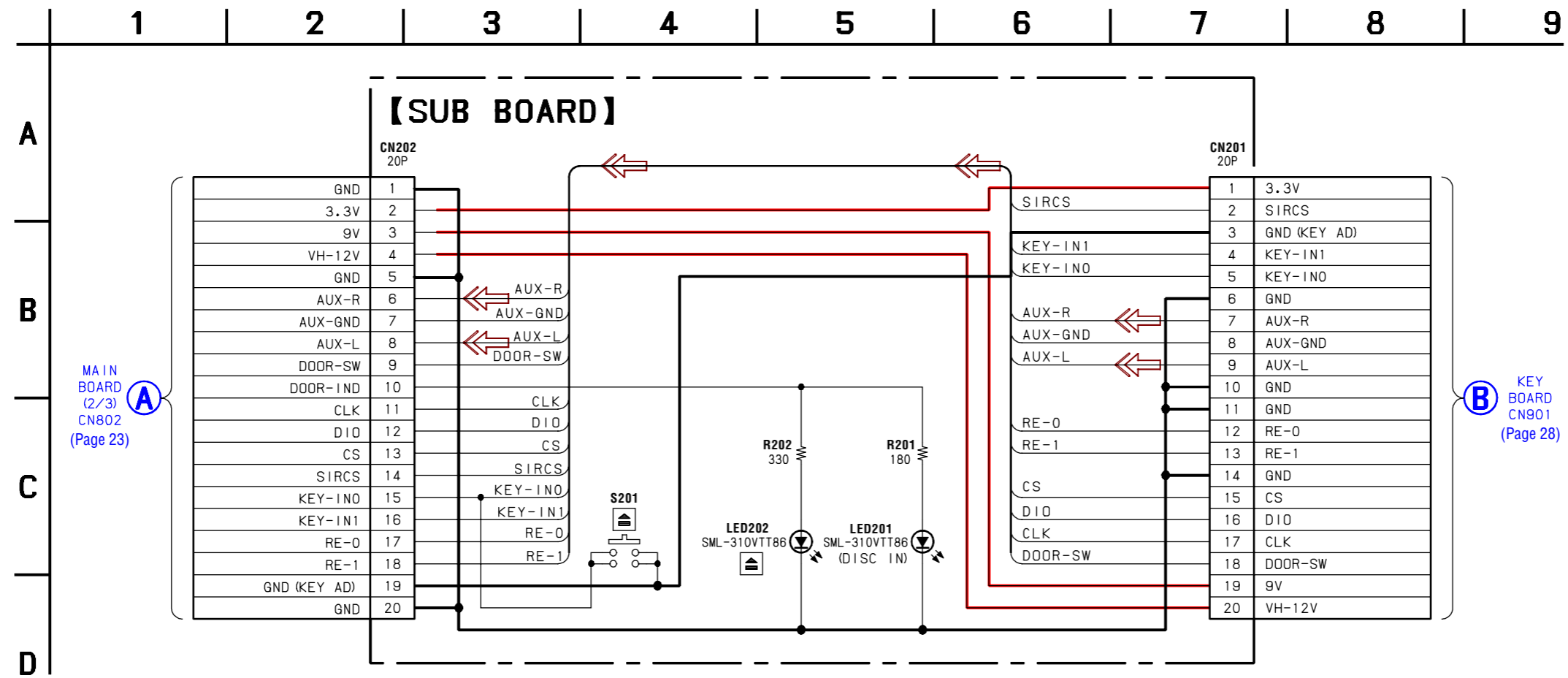
• Refer to page 20 for Waveforms.
 • Refer to page 31 for IC Pin Descriptions.



4-7. PRINTED WIRING BOARD — SUB SECTION —  : Uses unleaded solder.

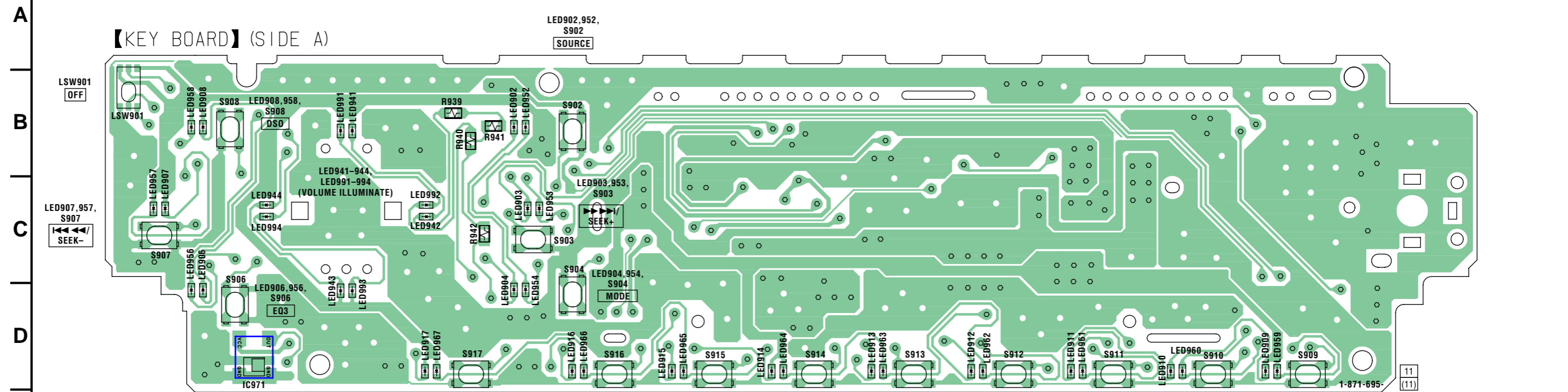



4-8. SCHEMATIC DIAGRAM — SUB SECTION —

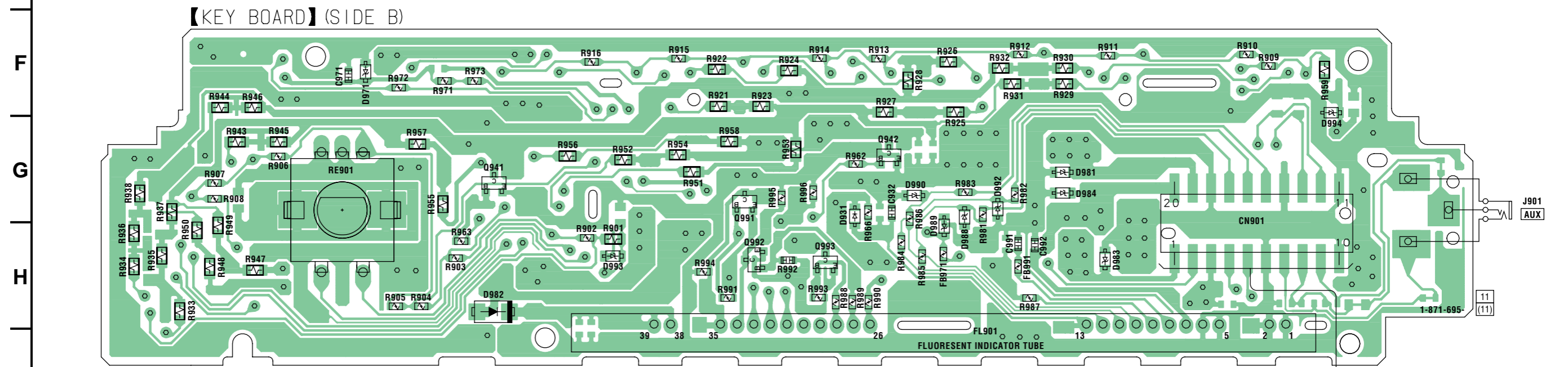


4-9. PRINTED WIRING BOARD — KEY SECTION —  : Uses unleaded solder.

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



	LED917, 967, S917	LED916, 966, S916	LED915, 965, S915	LED914, 964, S914	LED913, 963, S913	LED912, 962, S912	LED911, 961, S911	LED910, 960, S910	LED909, 959, S909
	BTM/CAT	DSPL	1/GP/ALBM-	2/GP/ALBM+	3/REP	4/SHUF	5	6/PAUSE	SCRL
	GT51W/GT510								
	BTM								
	GT560/GT560S								

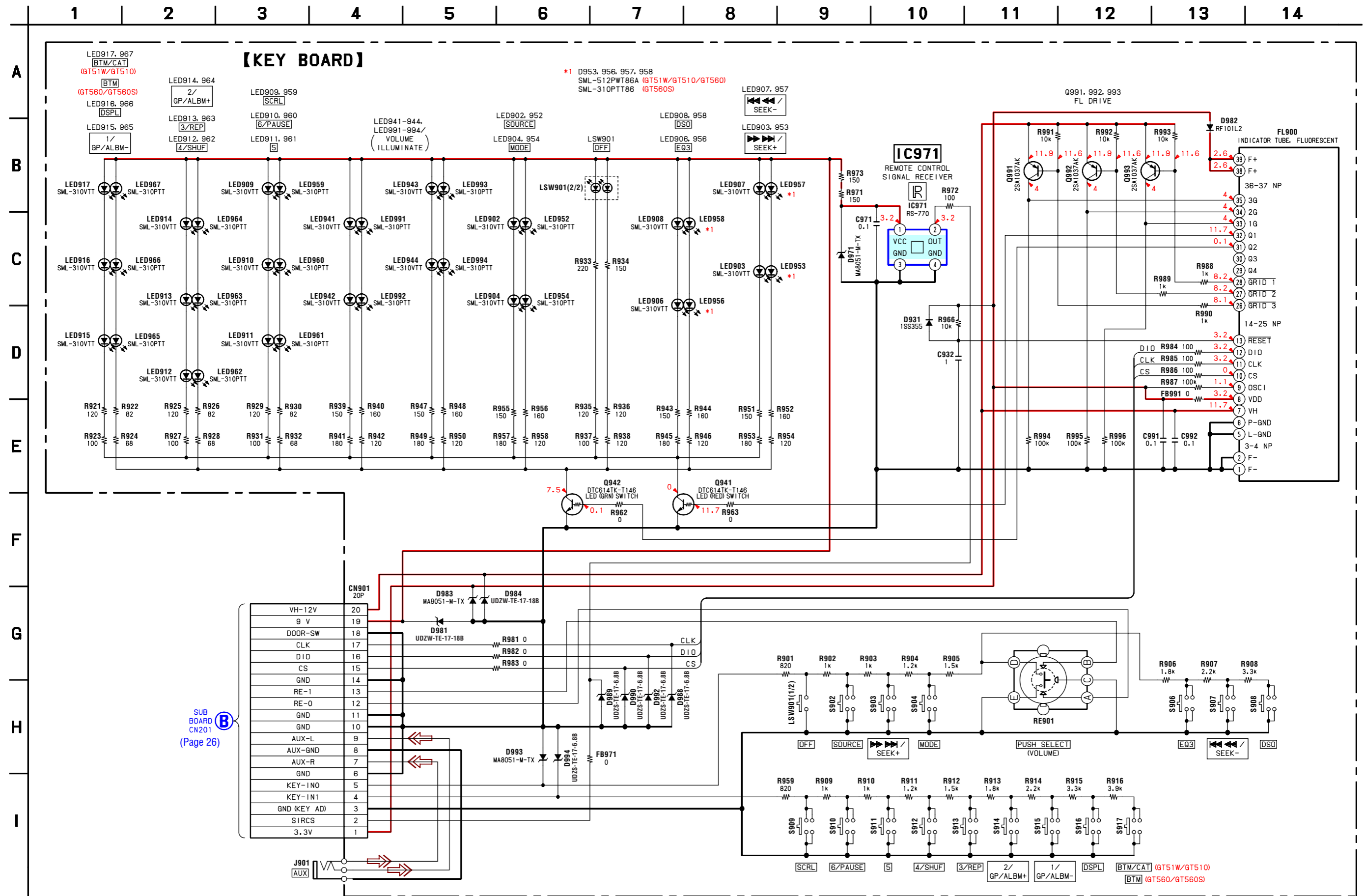


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D931	G-8	D992	G-10	LED906	D-2	LED915	D-6	LED954	D-5	LED964	D-8	Q941	G-5
D971	F-4	D993	H-6	LED907	C-2	LED916	D-6	LED956	D-2	LED965	D-7	Q942	G-9
D981	G-10	D994	G-13	LED908	B-2	LED917	D-4	LED957	C-2	LED966	D-6	Q991	G-7
D982	H-5			LED909	D-12	LED941	B-4	LED958	B-2	LED967	D-4	Q992	H-7
D983	H-11	IC971	D-3	LED910	D-11	LED942	C-4	LED959	D-12	LED991	B-3	Q993	H-8
D984	G-10			LED911	D-10	LED943	D-3	LED960	D-11	LED992	C-4		
D988	H-9	LED902	B-5	LED912	D-9	LED944	C-3	LED961	D-10	LED993	D-4		
D989	H-9	LED903	C-5	LED913	D-8	LED952	B-5	LED962	D-9	LED994	C-3		
D990	G-9	LED904	D-5	LED914	D-7	LED953	C-5	LED963	D-9				

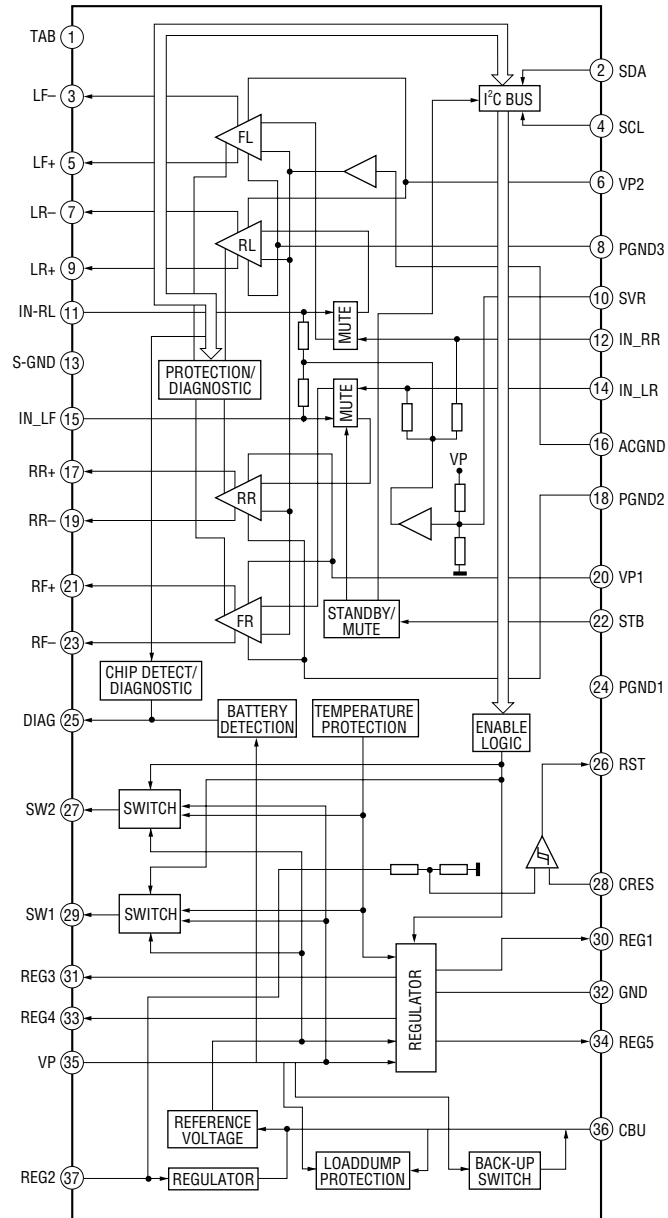
B
SUB BOARD
CN201
(Page 25)

4-10. SCHEMATIC DIAGRAM — KEY SECTION —

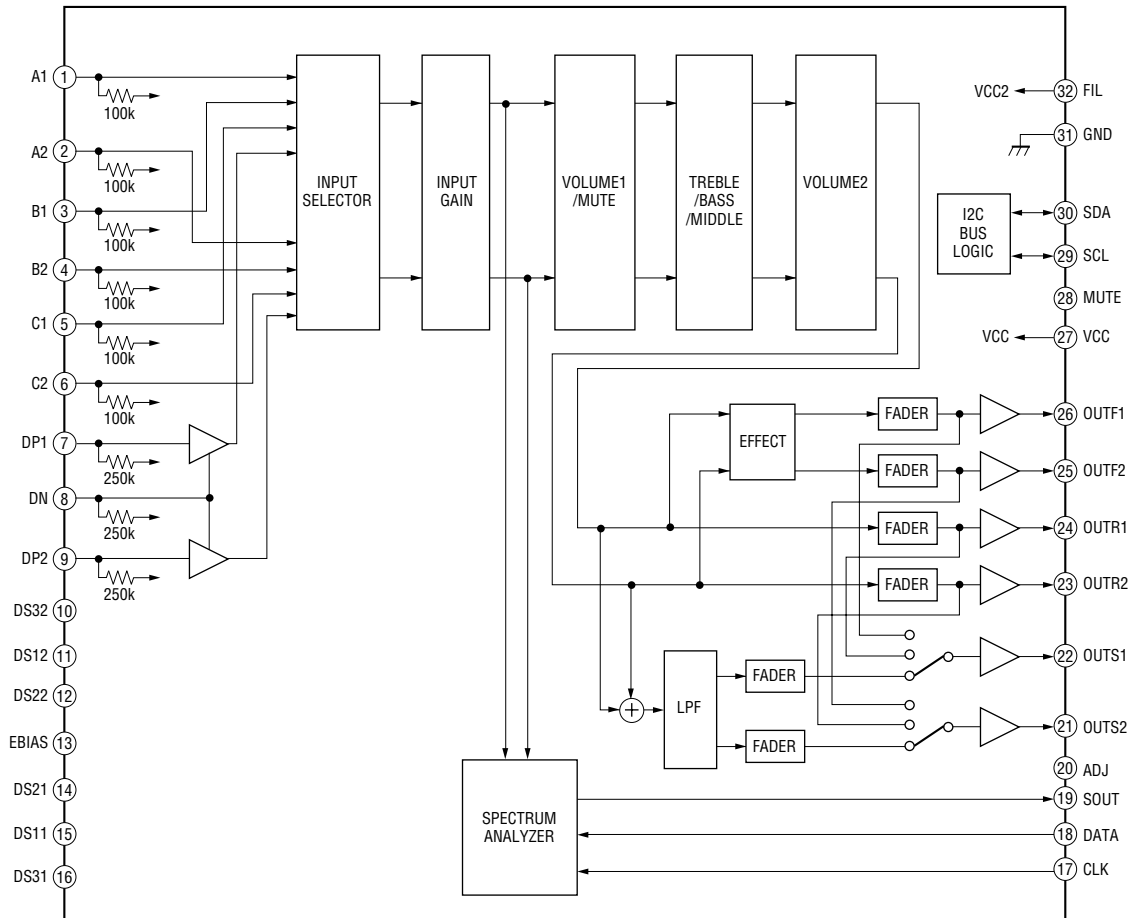


• IC BLOCK DIAGRAMS

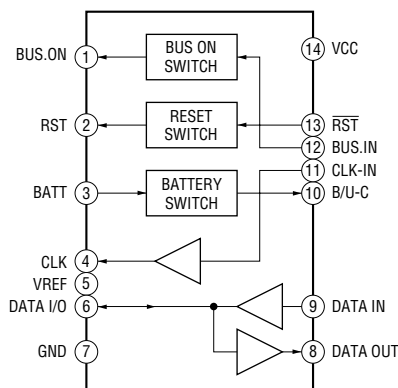
IC300 TDA8588AJ/N2/R1 (MAIN Board (1/3))



IC401 BD3442FS-E2 (MAIN Board (2/3))



IC601 BA8271F-E2 (MAIN Board (1/3))



• IC PIN DESCRIPTIONS

• IC501 MB90F045PF-G-9016-SPE1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

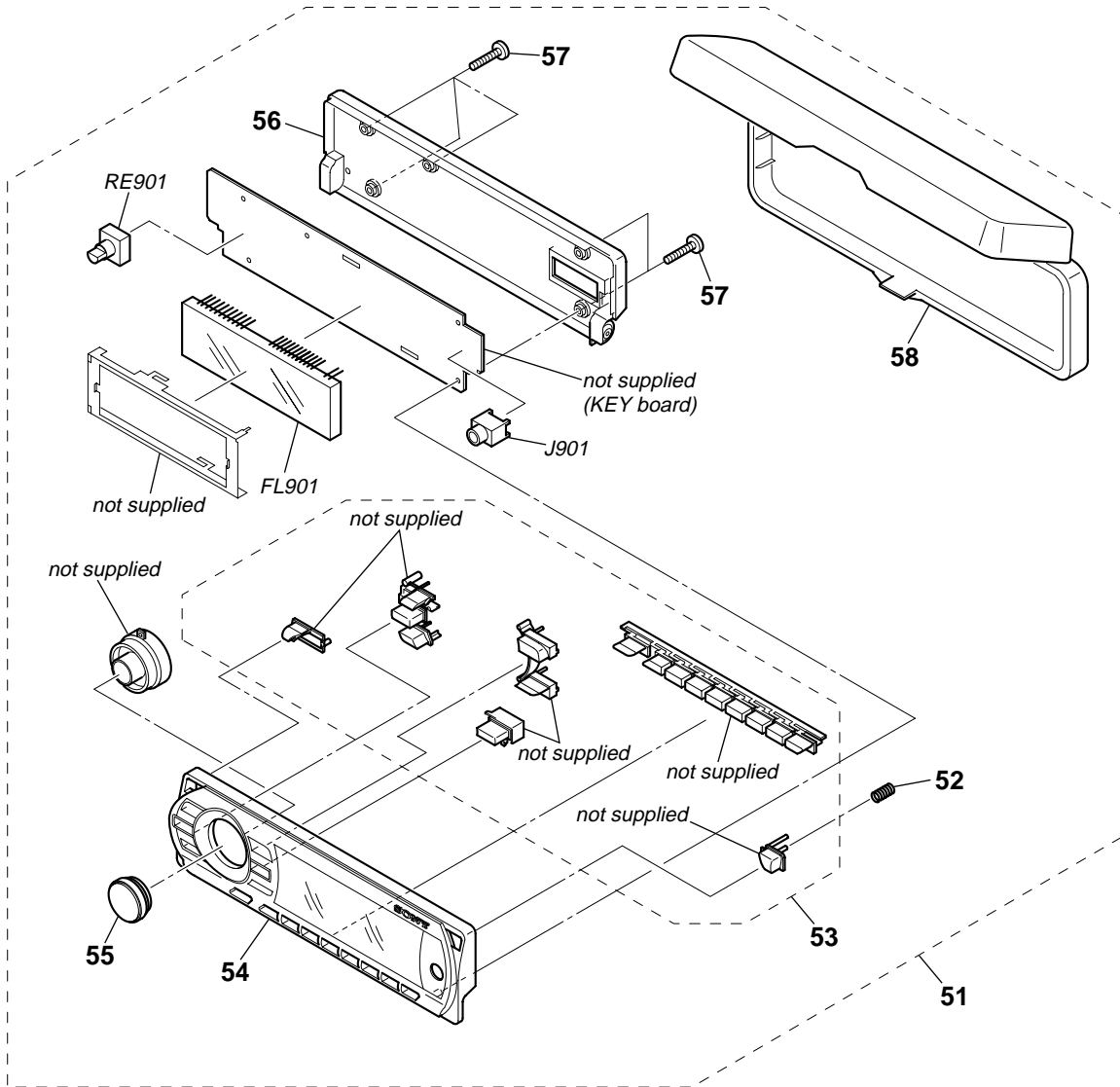
Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin
2	AREASEL1	I	Destination setting pin
3	AREASEL2	I	Frequency select signal input
4	B-OUTSEL	I	Blackout existence distinction signal input (L: blackout none, H: blackout)
5	NOSE_SW	I	Front panel detaching detection signal input (L: Panel on, H: Panel off)
6	ACC_SEL	I	ACC distinction signal input (Pull up)
7	BEEP	O	BEEP signal output
8	DIAG	I	Status signal input from power amplifier.
9	VOLATT	O	Electronic volume attenuate control signal output.
10	FSW_IN	O	DC/DC converter frequency signal input
11	VSS	—	Ground
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output Not used in this set. (Open)
14	NCO	I	Not used. (Open)
15	ILLUMI_SEL	I	Illumination voltage setting pin (L: 9V, H: 10.4V)
16	NCO	O	Not used. (Open)
17	AUX_SW	O	Not used. (Open)
18	FL_CS	O	FL driver chip select signal output
19	FL_SO	O	FL driver serial data signal output
20	FL_SCK	O	FL driver serial clock signal output
21	USB_OVL	O	Not used. (Open)
22	USB_ON	O	Not used. (Open)
23	VCC5	—	Power supply (+3.3V)
24	EEP_SIO	I/O	EEPROM bus serial data input/output
25	EEP_CKO	O	EEPROM bus serial clock output
26	AMPSTB	O	Power AMP standby signal output
27	MC-RX	O	Not used. (Open)
28	MC-TX	O	Not used. (Open)
29	NCO	O	Not used. (Open)
30	RDS ON	O	RDS ON signal output Not used in this set. (Open)
31	NCO	O	Not used. (Open)
32	SA_DATA	O	Spectrum analyzer data signal output
33	I2C_CKO	O	I2C bus serial clock signal output
34	I2C_SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply (+3.3V)
36	AVRH	—	A/D converter external reference power supply (+3.3V)
37	DAVSS	—	A/D converter Ground
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	I	Key signal input 0
42	VSS	—	Ground
43	RC_IN0	I	Rotary commander key signal input
44	SA_IN	I	Spectrum analyzer signal input
45	SA_CKO	O	Spectrum analyzer clock signal output
46	DOOR_IND	O	DISC IN/EJECT indicator LED control signal output
47	RE-IN0	I	Rotary encoder signal input 0
48	RE-IN1	I	Rotary encoder signal input 1

CDX-GT51W/GT510/GT560/GT560S

Pin No.	Pin Name	I/O	Pin Description
49	MD0	I	Operation mode setting pin (Pull up)
50	MD1	I	Operation mode setting pin (Pull up)
51	MD2	I	Operation mode setting pin (Pull down)
52	KEYACK	I	Key acknowledgment detect signal input Not used in this set. (Pull down)
53	TU_ATTIN	I	Tuner mute zero cross detect signal input Not used in this set. (Pull down)
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)
56	DAVN	I	RDS data block synchronized detect signal input Not used in this set. (Pull down)
57	NCO	O	Not used. (Open)
58	UNISI	I	S-BUS data signal input
59	UNISO	O	S-BUS data signal output
60	UNISCK	O	S-BUS clock signal output
61 to 63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input
65	FL12V_ON	O	FL12V Regulator ON/OFF control signal output
66	FSW_OUT	O	DC/DC converter frequency shift control signal output
67	DD_ON	O	FL3.3V Regulator control signal output
68	FLASH_W	I	Memory mode select signal input Not used in this set. (Pull up)
69	NCO	O	Not used. (Open)
70	DOOR_SW	I	Panel open/close detect signal input
71	RC_IN1	I	Rotary commander key signal input
72	ACC_IN	I	Accessory power supply detect signal input
73	TESTIN	I	Test mode detect signal input
74	TELATT	I	Telephone attenuate detect signal input
75	ILLUIN	I	Illumination detect signal input
76	AD_ON	O	A/D converter power supply control signal output
77	RESET	I	System reset signal input
78	NCO	O	Not used. (Open)
79	XOUT	O	Sub clock signal output (32.768kHz)
80	XIN	I	Sub clock signal input (32.768kHz)
81	VSS1	—	Ground
82	OSCIN	I	Main clock signal input (18.432kHz)
83	OSCOUT	O	Main clock signal output (18.432kHz)
84	VCC3	—	Power supply (+3.3 V)
85	NCO	O	Not used. (Open)
86	ATT	O	Audio mute control signal output
87	BUSON	O	BUS ON signal output
88	SYSRST	O	System reset signal output
89	EJECT_OK_SW	O	EJECT OK signal output
90	NCO	O	Not used. (Open)
91	WAKEUP	O	Not used. (Open)
92	NCO	O	Not used. (Open)
93	Z-MUTE	I	CD zero cross mute detect signal input
94	NCO	O	Not used. (Open)
95	DEMO_SEL	I	DEMO mode setting input (H: DEMO ON, L: DEMO OFF)
96	CYRIL_SEL	I	Cyril select signal input (H: CYRIL, L: Non-CYRIL)
97	NCO	O	Not used. (Open)
98	CD_ON	I	CD mechanism servo power control request signal input
99	CDM_ON	I	CD mechanism deck power control request signal input
100	OPEN_MUTE	O	Mute signal output at during the AUX source mode (H: Keep, L: Other)

CDX-GT51W/GT510/GT560/GT560S

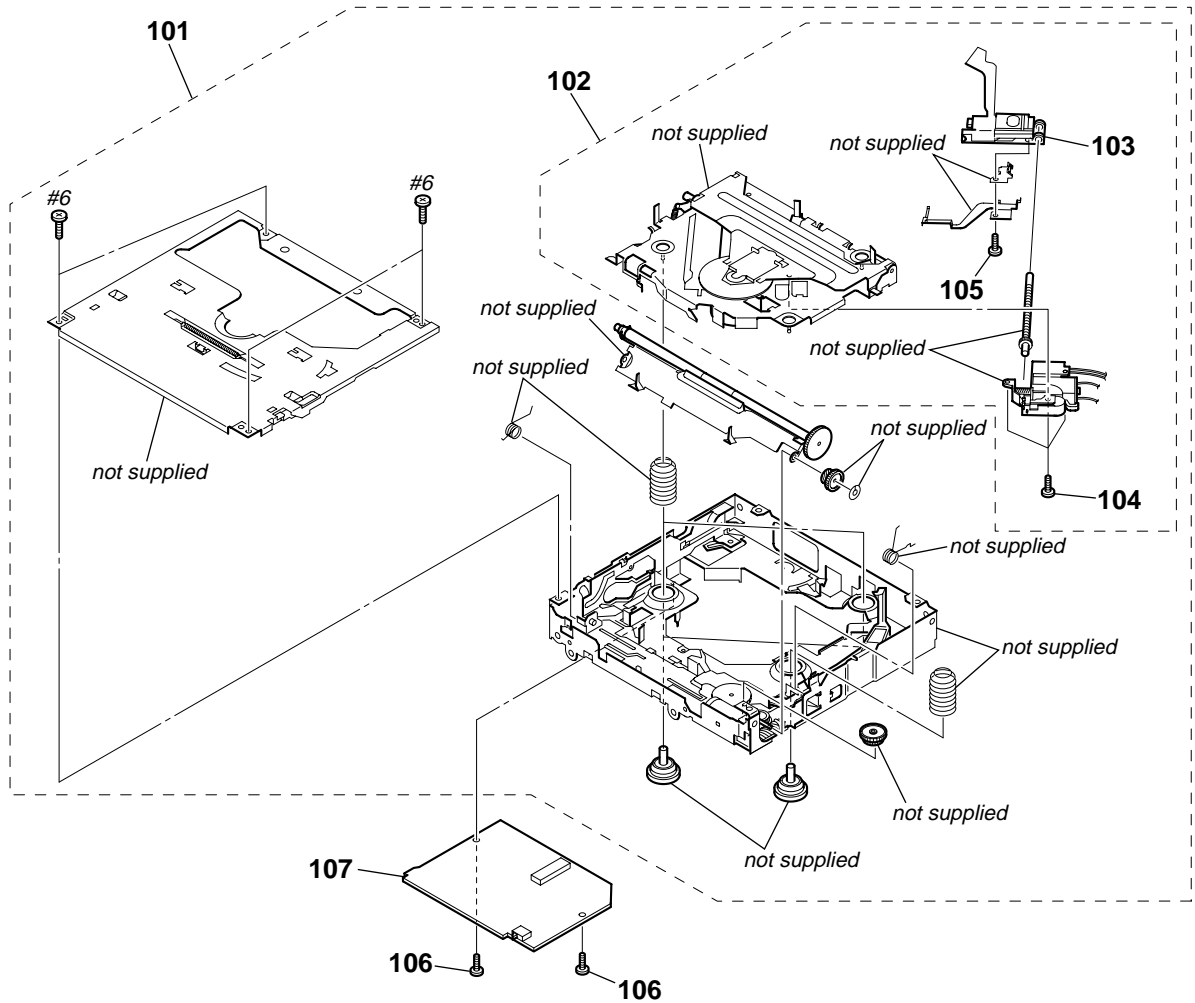
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1204-628-A	PANEL OVERALL ASSY, FRONT (GT510:US)		54	X-2149-328-1	PANEL (SV) ASSY, FRONT (GT51W)	
51	A-1206-157-A	PANEL OVERALL ASSY, FRONT (GT51W:US)		54	X-2149-331-1	PANEL (SV) ASSY, FRONT (GT560S)	
51	A-1206-173-A	PANEL OVERALL ASSY, FRONT (GT560S)		54	X-2149-333-1	PANEL (SV) ASSY, FRONT (GT560)	
51	A-1206-177-A	PANEL OVERALL ASSY, FRONT (GT560)		55	X-2149-198-1	KNOB ASSY (S)	
51	A-1206-527-A	PANEL OVERALL ASSY, FRONT (GT51W:CND)		56	X-2149-196-1	PANEL ASSY, BACK	
51	A-1206-528-A	PANEL OVERALL ASSY, FRONT (GT510:CND)		57	3-250-543-21	SCREW (+B P-TITE M2)	
52	3-264-712-01	SPRING (OPEN)		58	X-2149-228-1	CASE ASSY (for FRONT PANEL) (EXCEPT US)	
53	X-2149-200-1	BUTTON ASSY (S) (GT51W/GT510/GT560)		FL900	1-519-916-11	INDICATOR TUBE, FLUORESCENT	
53	X-2149-332-1	BUTTON ASSY (S) (GT560S)		J901	1-820-833-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	
54	X-2149-199-1	PANEL (SV) ASSY, FRONT (GT510)		RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))	

5-3. CD MECHANISM SECTION
(MG-101FA-188//Q)

NOTE: Refer to SUPPLEMENT-1 for disassembly of OPTICAL PICK-UP.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1177-168-A	MECHANICAL BLOCK ASSY		105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
102	A-1177-169-A	DAXEV//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
△103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1177-362-A	SERVO BOARD, COMPLETE	
104	2-626-869-01	SCREW (M2X3), SERRATION		#6	7-627-000-08	SCREW, PRECISION +P 1.7X2.2 TYPE3	

SECTION 6
ELECTRICAL PARTS LIST

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.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
CND : Canadian model
EA : Saudi Arabia model
MX : Mexican model

- Items marked “**” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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.

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****		LED906	8-719-053-09	LED SML-310VTT86 (EQ3)	
		< CAPACITOR >		LED907	8-719-053-09	LED SML-310VTT86 (I◀◀ ◀◀/SEEK-)	
C932	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V		LED908	8-719-053-09	LED SML-310VTT86 (DSO)	
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED909	8-719-053-09	LED SML-310VTT86 (SCRL)	
C991	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED910	8-719-053-09	LED SML-310VTT86 (6/PAUSE)	
C992	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V					
		< CONNECTOR >		LED911	8-719-053-09	LED SML-310VTT86 (5)	
CN901	1-818-141-11	PLUG, CONNECTOR 20P		LED912	8-719-053-09	LED SML-310VTT86 (4/SHUF)	
		< DIODE >		LED913	8-719-053-09	LED SML-310VTT86 (3/REP)	
D931	8-719-988-61	DIODE 1SS355TE-17		LED914	8-719-053-09	LED SML-310VTT86 (2/GP/ALBM +)	
D971	8-719-420-90	DIODE MA8051-M		LED915	8-719-053-09	LED SML-310VTT86 (1/GP/ALBM -)	
D981	6-501-180-01	DIODE UDZW-TE-17-18B					
D982	6-501-089-01	DIODE RF101L2STE25		LED916	8-719-053-09	LED SML-310VTT86 (DSPL)	
D983	8-719-420-90	DIODE MA8051-M		LED917	8-719-053-09	LED SML-310VTT86 (BTM/CAT)	(GT51W/GT510)
D984	6-501-180-01	DIODE UDZW-TE-17-18B		LED917	8-719-053-09	LED SML-310VTT86 (BTM) (GT560/GT560S)	
D988	8-719-978-33	DIODE DTZS-TT11-6.8B		LED941	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
D989	8-719-978-33	DIODE DTZS-TT11-6.8B		LED942	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
D990	8-719-978-33	DIODE DTZS-TT11-6.8B					
D992	8-719-978-33	DIODE DTZS-TT11-6.8B		LED943	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
D993	8-719-420-90	DIODE MA8051-M		LED944	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
D994	8-719-978-33	DIODE DTZS-TT11-6.8B		LED952	8-719-078-21	LED SML-310PTT86 (SOURCE)	
		< JUMPER RESISTOR >		LED953	6-501-642-01	LED SML-512PWT86A (▶▶▶▶/SEEK+)	(GT51W/GT510/GT560)
FB971	1-216-864-11	SHORT CHIP 0		LED953	8-719-078-21	LED SML-310PTT86 (▶▶▶▶/SEEK+)	(GT560S)
FB991	1-216-864-11	SHORT CHIP 0					
		< FLUORESCENT INDICATOR TUBE >		LED954	8-719-078-21	LED SML-310PTT86 (MODE)	
FL900	1-519-916-11	INDICATOR TUBE, FLUORESCENT		LED956	6-501-642-01	LED SML-512PWT86A (EQ3)	(GT51W/GT510/GT560)
		< IC >		LED956	8-719-078-21	LED SML-310PTT86 (EQ3) (GT560S)	
IC971	6-600-163-01	IC RS-770 (IR)		LED957	6-501-642-01	LED SML-512PWT86A (I◀◀ ◀◀/SEEK-)	(GT51W/GT510/GT560)
		< JACK >		LED957	8-719-078-21	LED SML-310PTT86 (I◀◀ ◀◀/SEEK-)	(GT560S)
J901	1-820-833-11	JACK (SMALL TYPE) (VERTICAL) (AUX)					
		< DIODE >		LED958	6-501-642-01	LED SML-512PWT86A (DSO)	(GT51W/GT510/GT560)
LED902	8-719-053-09	LED SML-310VTT86 (SOURCE)		LED958	8-719-078-21	LED SML-310PTT86 (DSO) (GT560S)	
LED903	8-719-053-09	LED SML-310VTT86 (▶▶▶▶/SEEK+)		LED959	8-719-078-21	LED SML-310PTT86 (SCRL)	
LED904	8-719-053-09	LED SML-310VTT86 (MODE)		LED960	8-719-078-21	LED SML-310PTT86 (6/PAUSE)	
				LED961	8-719-078-21	LED SML-310PTT86 (5)	
				LED962	8-719-078-21	LED SML-310PTT86 (4/SHUF)	
				LED963	8-719-078-21	LED SML-310PTT86 (3/REP)	
				LED964	8-719-078-21	LED SML-310PTT86 (2/GP/ALBM +)	
				LED965	8-719-078-21	LED SML-310PTT86 (1/GP/ALBM -)	
				LED966	8-719-078-21	LED SML-310PTT86 (DSPL)	
				LED967	8-719-078-21	LED SML-310PTT86 (BTM/CAT)	(GT51W/GT510)
				LED967	8-719-078-21	LED SML-310PTT86 (BTM) (GT560/GT560S)	
				LED991	8-719-078-21	LED SML-310PTT86 (VOLUME ILLUMINATE)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LED992	8-719-078-21	LED SML-310PTT86 (VOLUME ILLUMINATE)		R948	1-216-030-00	RES-CHIP 160 5%	1/10W
LED993	8-719-078-21	LED SML-310PTT86 (VOLUME ILLUMINATE)		R949	1-216-031-00	RES-CHIP 180 5%	1/10W
LED994	8-719-078-21	LED SML-310PTT86 (VOLUME ILLUMINATE)		R950	1-216-027-00	RES-CHIP 120 5%	1/10W
		< SWITCH >		R951	1-216-029-00	RES-CHIP 150 5%	1/10W
				R952	1-216-030-00	RES-CHIP 160 5%	1/10W
LSW901	1-798-017-11	SWITCH, TACTILE (WITH LED) (OFF)		R953	1-216-031-00	RES-CHIP 180 5%	1/10W
		< TRANSISTOR >		R954	1-216-027-00	RES-CHIP 120 5%	1/10W
				R955	1-216-029-00	RES-CHIP 150 5%	1/10W
Q941	6-550-752-01	TRANSISTOR DTC614TKT146		R956	1-216-030-00	RES-CHIP 160 5%	1/10W
Q942	6-550-752-01	TRANSISTOR DTC614TKT146		R957	1-216-031-00	RES-CHIP 180 5%	1/10W
Q991	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R958	1-216-027-00	RES-CHIP 120 5%	1/10W
Q992	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R959	1-216-047-11	RES-CHIP 820 5%	1/10W
Q993	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R962	1-216-864-11	SHORT CHIP 0	
		< RESISTOR >		R963	1-216-864-11	SHORT CHIP 0	
				R966	1-216-833-11	METAL CHIP 10K 5%	1/10W
R901	1-216-047-11	RES-CHIP 820 5%	1/10W	R971	1-216-811-11	METAL CHIP 150 5%	1/10W
R902	1-216-821-11	METAL CHIP 1K 5%	1/10W	R972	1-216-809-11	METAL CHIP 100 5%	1/10W
R903	1-216-821-11	METAL CHIP 1K 5%	1/10W	R973	1-216-811-11	METAL CHIP 150 5%	1/10W
R904	1-216-822-11	METAL CHIP 1.2K 5%	1/10W	R981	1-216-864-11	SHORT CHIP 0	
R905	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	R982	1-216-864-11	SHORT CHIP 0	
R906	1-216-824-11	METAL CHIP 1.8K 5%	1/10W	R983	1-216-864-11	SHORT CHIP 0	
R907	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R984	1-216-809-11	METAL CHIP 100 5%	1/10W
R908	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	R985	1-216-809-11	METAL CHIP 100 5%	1/10W
R909	1-216-821-11	METAL CHIP 1K 5%	1/10W	R986	1-216-809-11	METAL CHIP 100 5%	1/10W
R910	1-216-821-11	METAL CHIP 1K 5%	1/10W	R987	1-216-845-11	METAL CHIP 100K 5%	1/10W
R911	1-216-822-11	METAL CHIP 1.2K 5%	1/10W	R988	1-216-821-11	METAL CHIP 1K 5%	1/10W
R912	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	R989	1-216-821-11	METAL CHIP 1K 5%	1/10W
R913	1-216-824-11	METAL CHIP 1.8K 5%	1/10W	R990	1-216-821-11	METAL CHIP 1K 5%	1/10W
R914	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R991	1-216-833-11	METAL CHIP 10K 5%	1/10W
R915	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	R992	1-216-833-11	METAL CHIP 10K 5%	1/10W
R916	1-216-828-11	METAL CHIP 3.9K 5%	1/10W	R993	1-216-833-11	METAL CHIP 10K 5%	1/10W
R921	1-216-027-00	RES-CHIP 120 5%	1/10W	R994	1-216-845-11	METAL CHIP 100K 5%	1/10W
R922	1-216-023-00	RES-CHIP 82 5%	1/10W	R995	1-216-845-11	METAL CHIP 100K 5%	1/10W
R923	1-216-025-11	RES-CHIP 100 5%	1/10W	R996	1-216-845-11	METAL CHIP 100K 5%	1/10W
R924	1-216-021-00	RES-CHIP 68 5%	1/10W			< ROTARY ENCODER >	
R925	1-216-027-00	RES-CHIP 120 5%	1/10W	RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))	
R926	1-216-023-00	RES-CHIP 82 5%	1/10W			< SWITCH >	
R927	1-216-025-11	RES-CHIP 100 5%	1/10W				
R928	1-216-021-00	RES-CHIP 68 5%	1/10W	S902	1-786-653-21	SWITCH, TACTILE (SOURCE)	
R929	1-216-027-00	RES-CHIP 120 5%	1/10W	S903	1-786-653-21	SWITCH, TACTILE (▶▶▶▶/SEEK+)	
R930	1-216-023-00	RES-CHIP 82 5%	1/10W	S904	1-786-653-21	SWITCH, TACTILE (MODE)	
R931	1-216-025-11	RES-CHIP 100 5%	1/10W	S906	1-786-653-21	SWITCH, TACTILE (EQ3)	
R932	1-216-021-00	RES-CHIP 68 5%	1/10W	S907	1-786-653-21	SWITCH, TACTILE (◀◀◀◀/SEEK-)	
R933	1-216-033-00	RES-CHIP 220 5%	1/10W				
R934	1-216-029-00	RES-CHIP 150 5%	1/10W	S908	1-786-653-21	SWITCH, TACTILE (DSO)	
R935	1-216-027-00	RES-CHIP 120 5%	1/10W	S909	1-786-653-21	SWITCH, TACTILE (SCRL)	
R936	1-216-027-00	RES-CHIP 120 5%	1/10W	S910	1-786-653-21	SWITCH, TACTILE (6/PAUSE)	
R937	1-216-025-11	RES-CHIP 100 5%	1/10W	S911	1-786-653-21	SWITCH, TACTILE (5)	
R938	1-216-027-00	RES-CHIP 120 5%	1/10W	S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)	
R939	1-216-029-00	RES-CHIP 150 5%	1/10W				
R940	1-216-030-00	RES-CHIP 160 5%	1/10W	S913	1-786-653-21	SWITCH, TACTILE (3/REP)	
R941	1-216-031-00	RES-CHIP 180 5%	1/10W	S914	1-786-653-21	SWITCH, TACTILE (2/GP/ALBM +)	
R942	1-216-027-00	RES-CHIP 120 5%	1/10W	S915	1-786-653-21	SWITCH, TACTILE (1/GP/ALBM -)	
R943	1-216-029-00	RES-CHIP 150 5%	1/10W	S916	1-786-653-21	SWITCH, TACTILE (DSPL)	
R944	1-216-030-00	RES-CHIP 160 5%	1/10W	S917	1-786-653-21	SWITCH, TACTILE (BTM/CAT) (GT51W/GT510)	
R945	1-216-031-00	RES-CHIP 180 5%	1/10W	S917	1-786-653-21	SWITCH, TACTILE (BTM) (GT560/GT560S)	
R946	1-216-027-00	RES-CHIP 120 5%	1/10W			*****	
R947	1-216-029-00	RES-CHIP 150 5%	1/10W				

CDX-GT51W/GT510/GT560/GT560S

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
A-1204-625-A		MAIN BOARD, COMPLETE (GT51W/GT510)		C403	1-126-176-11	ELECT	220uF 20% 10V
A-1206-171-A		MAIN BOARD, COMPLETE (GT560:E,MX/GT560S)		C405	1-124-248-00	ELECT	22uF 20% 25V
A-1206-183-A		MAIN BOARD, COMPLETE (GT560:EA)		C410	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
		*****		C412	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
				C413	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
7-685-134-19		SCREW +P 2.6X8 TYPE2 NON-SLIT		C414	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
7-685-794-09		SCREW +PTT 2.6X10 (S)		C415	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
		< CAPACITOR >		C417	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C2	1-126-947-11	ELECT	47uF 20% 35V	C418	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C3	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C419	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C4	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C421	1-126-791-11	ELECT	10uF 20% 35V
C5	1-126-947-11	ELECT	47uF 20% 35V	C422	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C7	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C423	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C8	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C431	1-126-791-11	ELECT	10uF 20% 35V
C9	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C432	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C14	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C441	1-126-791-11	ELECT	10uF 20% 35V
C103	1-165-319-11	CERAMIC CHIP	0.1uF 50V	C442	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C104	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C443	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C108	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C446	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C109	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C447	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C110	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C451	1-126-791-11	ELECT	10uF 20% 35V
C114	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C452	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C116	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C461	1-126-791-11	ELECT	10uF 20% 35V
C117	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	C462	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C300	1-126-960-11	ELECT	1uF 20% 50V	C465	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C301	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C466	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C303	1-128-551-11	ELECT	22uF 20% 63V	C471	1-126-791-11	ELECT	10uF 20% 35V
C304	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C472	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C305	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C480	1-136-159-00	FILM	0.033uF 5% 50V
C306	1-126-964-11	ELECT	10uF 20% 50V	C481	1-136-159-00	FILM	0.033uF 5% 50V
C307	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C482	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C308	1-126-964-11	ELECT	10uF 20% 50V	C483	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C309	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C484	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C310	1-126-916-11	ELECT	1000uF 20% 6.3V	C485	1-104-665-11	ELECT	100uF 20% 25V
C312	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C487	1-126-791-11	ELECT	10uF 20% 35V
C313	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C491	1-124-589-11	ELECT	47uF 20% 16V
C314	1-124-261-00	ELECT	10uF 20% 50V	C501	1-128-057-11	ELECT	330uF 20% 6.3V
C315	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C502	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C316	1-124-261-00	ELECT	10uF 20% 50V	C503	1-124-584-00	ELECT	100uF 20% 10V
C317	1-124-257-00	ELECT	2.2uF 20% 50V	C504	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C318	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C505	1-124-584-00	ELECT	100uF 20% 10V
C319	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	C506	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C320	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	C507	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C321	1-126-960-11	ELECT	1uF 20% 50V	C508	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C323	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C509	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C324	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C510	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C325	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C511	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C327	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	C512	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C328	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	C513	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C330	1-216-864-11	SHORT CHIP	0	C515	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
C331	1-216-864-11	SHORT CHIP	0	C516	1-162-918-11	CERAMIC CHIP	18PF 5% 50V
C360	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	C519	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C361	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	C523	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C362	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	C600	1-126-935-11	ELECT	470uF 20% 16V
C363	1-115-871-11	ELECT	1uF 20% 50V	C601	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C364	1-115-871-11	ELECT	1uF 20% 50V	C602	1-165-319-11	CERAMIC CHIP	0.1uF 50V
C401	1-124-584-00	ELECT	100uF 20% 10V	C701	1-131-868-81	ELECT	3300uF 20% 16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C702	1-126-160-11	ELECT	1uF 20% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C703	1-126-163-11	ELECT	4.7uF 20% 50V	D365	8-719-977-12	DIODE DTZ6.8B	
C704	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	D366	8-719-977-12	DIODE DTZ6.8B	
C705	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D367	8-719-977-12	DIODE DTZ6.8B	
C801	1-104-665-11	ELECT	100uF 20% 25V	D400	6-501-013-01	DIODE BAT54ALT1G	
C802	1-126-934-11	ELECT	220uF 20% 16V	D491	8-719-404-50	DIODE MA111-TX	
C804	1-126-963-11	ELECT	4.7uF 20% 50V	D493	6-501-051-01	DIODE BAT54CLT1G	
C805	1-126-933-11	ELECT	100uF 20% 16V	D494	6-501-013-01	DIODE BAT54ALT1G	
C809	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D501	8-719-050-37	DIODE M1MA152WA-T1	
C810	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D502	8-719-060-48	DIODE RB751V-40TE-17	
C811	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D511	6-501-051-01	DIODE BAT54CLT1G	
C812	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D602	8-719-057-80	DIODE MA8180-M-TX	
C813	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D603	8-719-422-67	DIODE MA8062-H	
C814	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D604	8-719-057-80	DIODE MA8180-M-TX	
C816	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D605	8-719-057-80	DIODE MA8180-M-TX	
C817	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D606	8-719-072-70	DIODE MA2ZD14001S0	
C819	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D607	6-501-571-01	DIODE 1N5404-C311-3	
C821	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D701	8-719-057-80	DIODE MA8180-M-TX	
C830	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D702	8-719-057-80	DIODE MA8180-M-TX	
C901	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D703	8-719-420-90	DIODE MA8051-M	
C902	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D704	8-719-057-80	DIODE MA8180-M-TX	
C997	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D705	8-719-404-50	DIODE MA111-TX	
C998	1-216-864-11	SHORT CHIP	0	D801	6-501-124-01	DIODE RSX101VA-30TR	
		< CONNECTOR >		D802	8-719-420-90	DIODE MA8051-M	
CN300	1-774-701-21	PIN, CONNECTOR 16P		D903	8-719-057-80	DIODE MA8180-M-TX	
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P				< JUMPER RESISTOR >	
CN802	1-569-913-11	SOCKET, CONNECTOR 20P		FB401	1-216-295-11	SHORT CHIP	0
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)		FB402	1-216-864-11	SHORT CHIP	0
		< DIODE >		FB403	1-216-864-11	SHORT CHIP	0
D2	8-719-977-03	DIODE DTZ5.6B		FB404	1-216-295-11	SHORT CHIP	0
D101	8-719-977-12	DIODE DTZ6.8B		FB405	1-216-864-11	SHORT CHIP	0
D102	8-719-420-90	DIODE MA8051-M		FB406	1-216-864-11	SHORT CHIP	0
D103	8-719-057-80	DIODE MA8180-M-TX		FB407	1-216-295-11	SHORT CHIP	0
D104	8-719-057-80	DIODE MA8180-M-TX		FB408	1-216-864-11	SHORT CHIP	0
D105	8-719-420-90	DIODE MA8051-M		FB801	1-216-864-11	SHORT CHIP	0
D106	8-719-420-90	DIODE MA8051-M		FB802	1-216-864-11	SHORT CHIP	0
D107	8-719-420-90	DIODE MA8051-M		FB803	1-216-864-11	SHORT CHIP	0
D108	8-719-420-90	DIODE MA8051-M		FB804	1-216-821-11	METAL CHIP	1K 5% 1/10W
D109	8-719-420-90	DIODE MA8051-M				< IC >	
D110	8-719-420-90	DIODE MA8051-M		IC300	6-705-359-02	IC TDA8588AJ/N2/R1	
D114	8-719-420-90	DIODE MA8051-M		IC401	6-710-065-01	IC BD3442FS-E2	
D115	8-719-978-33	DIODE DTZS-TT11-6.8B		IC501	6-806-959-01	IC MB90F045PF-G-9016-SPE1	
D116	8-719-977-12	DIODE DTZ6.8B		IC502	6-704-529-01	IC XC6206P332PR	
D119	8-719-057-80	DIODE MA8180-M-TX		IC601	6-703-884-01	IC BA8271F-E2	
D120	8-719-420-90	DIODE MA8051-M		IC602	6-703-224-01	IC S-80828CNNB-B8NT2G	
D301	6-500-522-01	DIODE 10EDB40-TA1B2		IC801	6-710-493-01	IC NJM2370U1-12-TE2	
D302	6-500-522-01	DIODE 10EDB40-TA1B2		IC802	6-707-911-01	IC BD9778HFP	
D303	6-500-522-01	DIODE 10EDB40-TA1B2				< JACK >	
D304	6-500-522-01	DIODE 10EDB40-TA1B2		J1	1-815-185-13	JACK (ANTENNA)	
D305	6-500-522-01	DIODE 10EDB40-TA1B2		J370	1-566-822-41	JACK (REMOTE IN)	
D306	6-500-522-01	DIODE 10EDB40-TA1B2		J451	1-774-700-41	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)	
D307	6-500-522-01	DIODE 10EDB40-TA1B2				< JUMPER RESISTOR >	
D308	6-500-522-01	DIODE 10EDB40-TA1B2		JC3	1-216-864-11	SHORT CHIP	0
D309	6-500-522-01	DIODE 10EDB40-TA1B2		JC32	1-216-864-11	SHORT CHIP	0
D310	6-500-522-01	DIODE 10EDB40-TA1B2					
D311	6-500-522-01	DIODE 10EDB40-TA1B2					
D312	6-500-522-01	DIODE 10EDB40-TA1B2					

CDX-GT51W/GT510/GT560/GT560S

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JC53	1-216-864-11	SHORT CHIP	0	Q590	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC100	1-216-864-11	SHORT CHIP	0	Q600	8-729-047-76	TRANSISTOR FMC2A-T148	
JC300	1-216-296-11	SHORT CHIP	0	Q601	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC301	1-216-296-11	SHORT CHIP	0	Q605	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JC302	1-216-296-11	SHORT CHIP	0	Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC303	1-216-864-11	SHORT CHIP	0	Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC350	1-216-296-11	SHORT CHIP	0	Q703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC400	1-216-295-11	SHORT CHIP	0	Q801	1-801-806-11	TRANSISTOR DTC144EKA	
JC401	1-216-864-11	SHORT CHIP	0			< RESISTOR >	
JC430	1-216-296-11	SHORT CHIP	0				
JC490	1-216-296-11	SHORT CHIP	0	R2	1-216-839-11	METAL CHIP 33K	5% 1/10W
JC491	1-216-296-11	SHORT CHIP	0	R3	1-216-843-11	METAL CHIP 68K	5% 1/10W
JC501	1-216-296-11	SHORT CHIP	0	R4	1-216-839-11	METAL CHIP 33K	5% 1/10W
JC503	1-216-296-11	SHORT CHIP	0	R5	1-216-843-11	METAL CHIP 68K	5% 1/10W
JC504	1-216-296-11	SHORT CHIP	0	R6	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC508	1-216-296-11	SHORT CHIP	0	R7	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC511	1-216-864-11	SHORT CHIP	0	R10	1-216-821-11	METAL CHIP 1K	5% 1/10W
JC512	1-216-864-11	SHORT CHIP	0	R12	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC514	1-216-864-11	SHORT CHIP	0	R13	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC515	1-216-864-11	SHORT CHIP	0	R301	1-216-811-11	METAL CHIP 150	5% 1/10W
JC516	1-216-864-11	SHORT CHIP	0	R302	1-216-841-11	METAL CHIP 47K	5% 1/10W
JC518	1-216-296-11	SHORT CHIP	0	R351	1-216-845-11	METAL CHIP 100K	5% 1/10W
JC519	1-216-296-11	SHORT CHIP	0	R355	1-216-834-11	METAL CHIP 12K	5% 1/10W
JC522	1-216-295-11	SHORT CHIP	0	R356	1-216-834-11	METAL CHIP 12K	5% 1/10W
JC523	1-216-295-11	SHORT CHIP	0	R357	1-216-817-11	METAL CHIP 470	5% 1/10W
JC524	1-216-296-11	SHORT CHIP	0	R358	1-216-817-11	METAL CHIP 470	5% 1/10W
JC600	1-216-864-11	SHORT CHIP	0	R359	1-216-864-11	SHORT CHIP 0	
JC602	1-216-296-11	SHORT CHIP	0	R361	1-216-821-11	METAL CHIP 1K	5% 1/10W
JC603	1-216-296-11	SHORT CHIP	0	R370	1-216-809-11	METAL CHIP 100	5% 1/10W
JC800	1-216-296-11	SHORT CHIP	0	R371	1-216-809-11	METAL CHIP 100	5% 1/10W
JC804	1-216-295-11	SHORT CHIP	0	R400	1-216-296-11	SHORT CHIP 0	
JC998	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	R401	1-216-821-11	METAL CHIP 1K	5% 1/10W
JC999	1-216-864-11	SHORT CHIP	0	R402	1-216-821-11	METAL CHIP 1K	5% 1/10W
		< COIL >		R407	1-216-864-11	SHORT CHIP 0	
L1	1-500-245-11	INDUCTOR, FERRITE BEAD		R416	1-216-821-11	METAL CHIP 1K	5% 1/10W
L4	1-469-844-11	INDUCTOR 2.2uH		R417	1-216-833-11	METAL CHIP 10K	5% 1/10W
L101	1-410-509-11	INDUCTOR 10uH		R418	1-216-821-11	METAL CHIP 1K	5% 1/10W
L300	1-456-617-11	COIL, CHOKE		R419	1-216-833-11	METAL CHIP 10K	5% 1/10W
L301	1-216-864-11	SHORT CHIP	0	R420	1-216-809-11	METAL CHIP 100	5% 1/10W
L302	1-216-864-11	SHORT CHIP	0	R421	1-216-809-11	METAL CHIP 100	5% 1/10W
L303	1-216-864-11	SHORT CHIP	0	R422	1-216-833-11	METAL CHIP 10K	5% 1/10W
L500	1-469-844-11	INDUCTOR 2.2uH		R430	1-216-809-11	METAL CHIP 100	5% 1/10W
L802	1-457-376-11	COIL, CHOKE		R431	1-216-809-11	METAL CHIP 100	5% 1/10W
L803	1-457-376-11	COIL, CHOKE		R432	1-216-833-11	METAL CHIP 10K	5% 1/10W
		< TRANSISTOR >		R433	1-218-883-11	METAL CHIP 33K	0.5% 1/10W
Q3	8-729-106-68	TRANSISTOR 2SD1615A-GP		R440	1-216-809-11	METAL CHIP 100	5% 1/10W
Q420	6-550-752-01	TRANSISTOR DTC614TKT146		R441	1-216-809-11	METAL CHIP 100	5% 1/10W
Q430	6-550-752-01	TRANSISTOR DTC614TKT146		R442	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q440	6-550-752-01	TRANSISTOR DTC614TKT146		R450	1-216-809-11	METAL CHIP 100	5% 1/10W
Q450	6-550-752-01	TRANSISTOR DTC614TKT146		R451	1-216-809-11	METAL CHIP 100	5% 1/10W
Q460	6-550-752-01	TRANSISTOR DTC614TKT146		R452	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q470	6-550-752-01	TRANSISTOR DTC614TKT146		R453	1-216-864-11	SHORT CHIP 0	
Q491	8-729-027-23	TRANSISTOR DTA114EKA-T146		R454	1-216-864-11	SHORT CHIP 0	
Q492	8-729-027-43	TRANSISTOR DTC114EKA-T146		R455	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q501	8-729-027-23	TRANSISTOR DTA114EKA-T146		R460	1-216-809-11	METAL CHIP 100	5% 1/10W
Q589	8-729-027-43	TRANSISTOR DTC114EKA-T146		R461	1-216-809-11	METAL CHIP 100	5% 1/10W
				R462	1-216-833-11	METAL CHIP 10K	5% 1/10W
				R470	1-216-809-11	METAL CHIP 100	5% 1/10W

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R471	1-216-809-11	METAL CHIP	100	5%	1/10W	R549	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R472	1-216-833-11	METAL CHIP	10K	5%	1/10W	R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R474	1-216-864-11	SHORT CHIP	0			R551	1-216-864-11	SHORT CHIP	0		
R480	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R481	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R554	1-216-821-11	METAL CHIP	1K	5%	1/10W
R482	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
R483	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R484	1-216-821-11	METAL CHIP	1K	5%	1/10W	R557	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-805-11	METAL CHIP	47	5%	1/10W	R558	1-216-809-11	METAL CHIP	100	5%	1/10W
R494	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R500	1-216-817-11	METAL CHIP	470	5%	1/10W						(GT51W/GT510)
R501	1-216-845-11	METAL CHIP	100K	5%	1/10W	R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-845-11	METAL CHIP	100K	5%	1/10W						(GT560/GT560S)
R504	1-216-845-11	METAL CHIP	100K	5%	1/10W	R562	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GT51W/GT510)	R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-216-845-11	METAL CHIP	100K	5%	1/10W	R601	1-216-851-11	METAL CHIP	330K	5%	1/10W
					(GT51W/GT510/GT560:EA)	R602	1-216-851-11	METAL CHIP	330K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W	R603	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT560:E,MX/GT560S)	R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W	R605	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GT560:E,MX/GT560S)	R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W	R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W	R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W	R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R513	1-216-809-11	METAL CHIP	100	5%	1/10W	R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-809-11	METAL CHIP	100	5%	1/10W	R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W	R702	1-216-841-11	METAL CHIP	47K	5%	1/10W
R516	1-216-809-11	METAL CHIP	100	5%	1/10W	R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W	R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W	R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R519	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R520	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R707	1-216-841-11	METAL CHIP	47K	5%	1/10W
R521	1-216-821-11	METAL CHIP	1K	5%	1/10W	R708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R522	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R709	1-216-049-11	RES-CHIP	1K	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W	R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W	R711	1-216-845-11	METAL CHIP	100K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W	R712	1-216-837-11	METAL CHIP	22K	5%	1/10W
R526	1-216-841-11	METAL CHIP	47K	5%	1/10W	R801	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W	R802	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W	R803	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R529	1-216-845-11	METAL CHIP	100K	5%	1/10W	R804	1-216-851-11	METAL CHIP	330K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/10W	R805	1-216-844-11	METAL CHIP	82K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W	R806	1-216-847-11	METAL CHIP	150K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W	R808	1-216-821-11	METAL CHIP	1K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W	R809	1-216-821-11	METAL CHIP	1K	5%	1/10W
R534	1-216-845-11	METAL CHIP	100K	5%	1/10W	R810	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W	R811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R536	1-216-811-11	METAL CHIP	150	5%	1/10W	R812	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W	R830	1-216-797-11	METAL CHIP	10	5%	1/10W
R538	1-216-845-11	METAL CHIP	100K	5%	1/10W			< SWITCH >			
R539	1-216-809-11	METAL CHIP	100	5%	1/10W	S102	1-786-458-11	SWITCH, PUSH (1 KEY)			
R540	1-216-809-11	METAL CHIP	100	5%	1/10W						(FRONT PANEL DETECT)
R541	1-216-849-11	METAL CHIP	220K	5%	1/10W	S103	1-692-431-21	SWITCH, TACTILE (RESET)			
R543	1-216-845-11	METAL CHIP	100K	5%	1/10W	S501	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W						(GT560:E,MX/GT560S)
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
R548	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						

CDX-GT51W/GT510/GT560/GT560S

MAIN **SERVO** **SUB**

Ref. No.	Part No.	Description	Remark
		< THERMISTOR (POSITIVE) >	
TH400	1-803-350-21	THERMISTOR, POSITIVE	
		< TUNER UNIT >	
TU1	A-3220-961-B	TUNER UNIT (TUX-032)	
		< VIBRATOR >	
X500	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X501	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

	A-1177-362-A	SERVO BOARD, COMPLETE	

		SUB BOARD	

	1-833-591-11	CABLE, FLEXIBLE FLAT (20 CORE)	
		< CONNECTOR >	
CN201	1-818-142-11	SOCKET, CONNECTOR 20P	
		< DIODE >	
LED201	8-719-053-09	LED SML-310VTT86 (DISC IN)	
LED202	8-719-053-09	LED SML-310VTT86 (▲)	
		< RESISTOR >	
R201	1-216-812-11	METAL CHIP 180 5% 1/10W	
R202	1-216-815-11	METAL CHIP 330 5% 1/10W	
		< SWITCH >	
S201	1-786-653-21	SWITCH, TACTILE (▲)	

		MISCELLANEOUS	

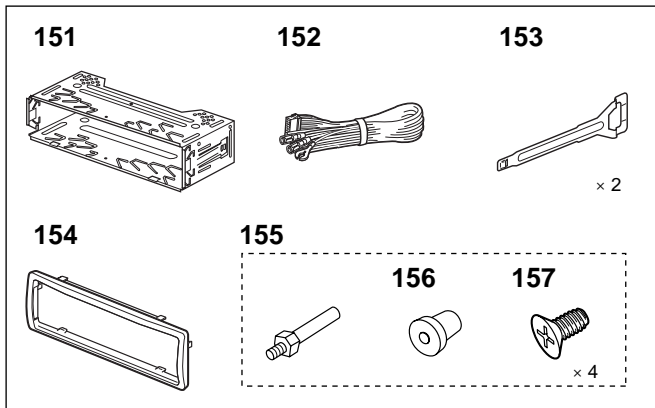
12	1-833-102-11	CORD (WITH CONNECTOR) (POWER)	
▲103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	

	1-479-077-13	REMOTE COMMANDER (RM-X151)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151)	
	2-698-276-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	
		(GT51W:US)	
	2-698-276-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH)	
		(GT51W:CND/GT510)	
	2-698-276-41	MANUAL, INSTRUCTION (ENGLISH,SPANISH, SIMPLIFIED CHINESE)	
		(GT560:E,MX/GT560S)	
	2-698-276-51	MANUAL, INSTRUCTION (ENGLISH)	
		(GT560:EA)	
	2-698-277-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (GT51W:US)	
	2-698-277-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (GT51W:CND/GT510)	
	2-698-277-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SIMPLIFIED CHINESE)	
		(GT560:E,MX/GT560S)	
	2-698-277-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH)	
		(GT560:EA)	
	X-2149-228-1	CASE ASSY (for FRONT PANEL) (EXCEPT US)	

PARTS FOR INSTALLATION AND CONNECTIONS

151	X-3382-647-1	FRAME ASSY, FITTING
152	1-833-102-11	CORD (WITH CONNECTOR) (POWER)
153	3-246-471-01	KEY (FRAME)
154	2-638-099-01	COLLAR
155	X-3381-154-1	SCREW ASSY (BS4), FITTING (GT560/GT560S)
156	3-349-410-11	BUSHING (GT560/GT560S)
157	3-934-325-01	SCREW, +K (5X8) TAPPING



CDX-GT51W/GT510/ GT560/GT560S

SONY®

SERVICE MANUAL

Ver. 1.2 2007.04

US Model
Canadian Model
CDX-GT51W/GT510
E Model
CDX-GT560/GT560S

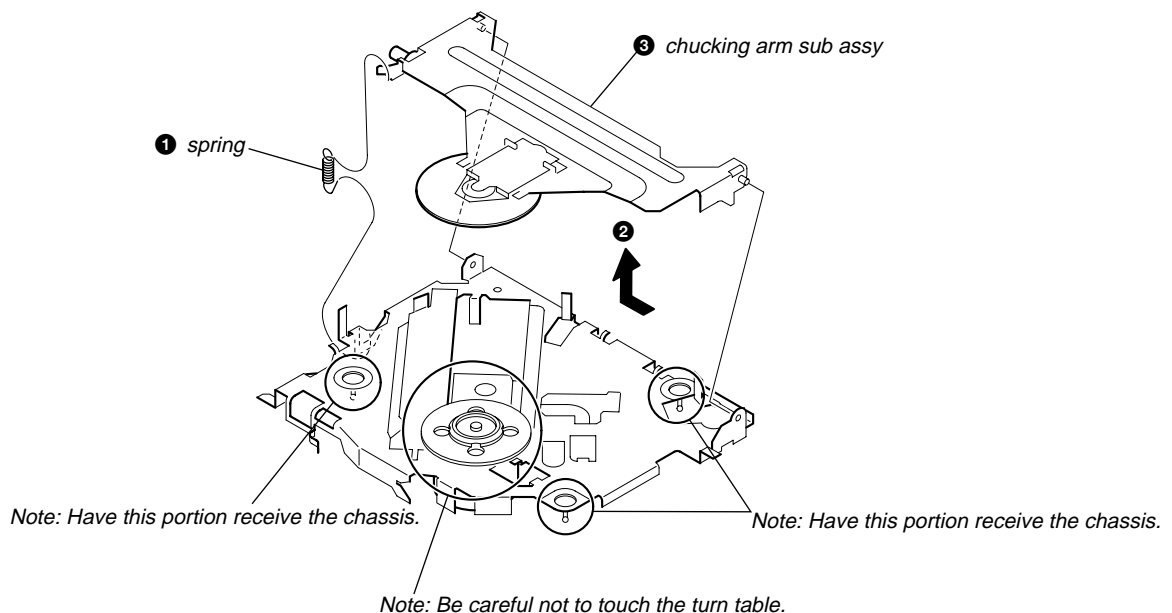
SUPPLEMENT-1

File this supplement with the service manual.

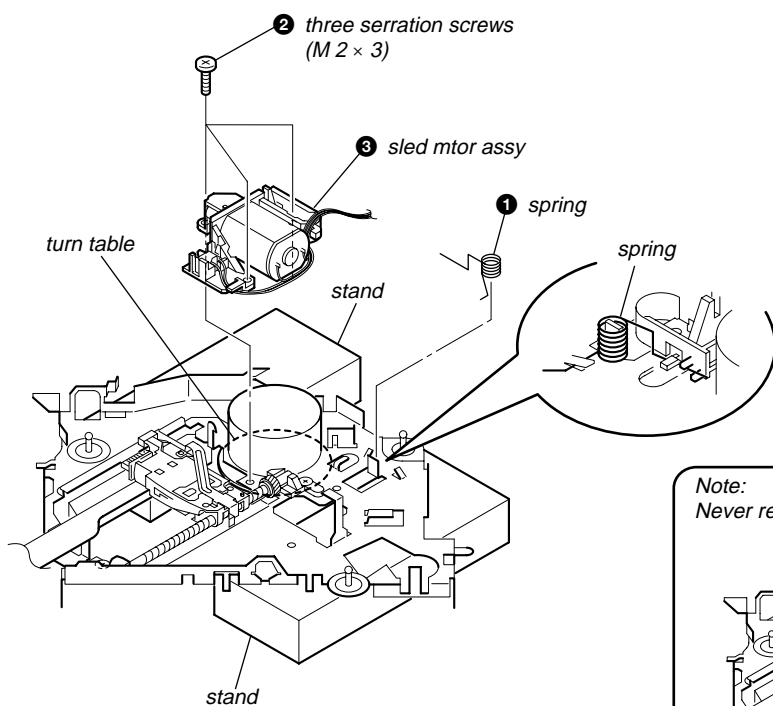
Subject: Notes for removal of the OPTICAL PICK-UP added.

DISASSEMBLY

1. CHUCKING ARM SUB ASSY

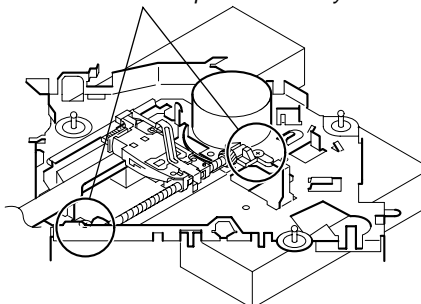


2. SLED MOTOR ASSY

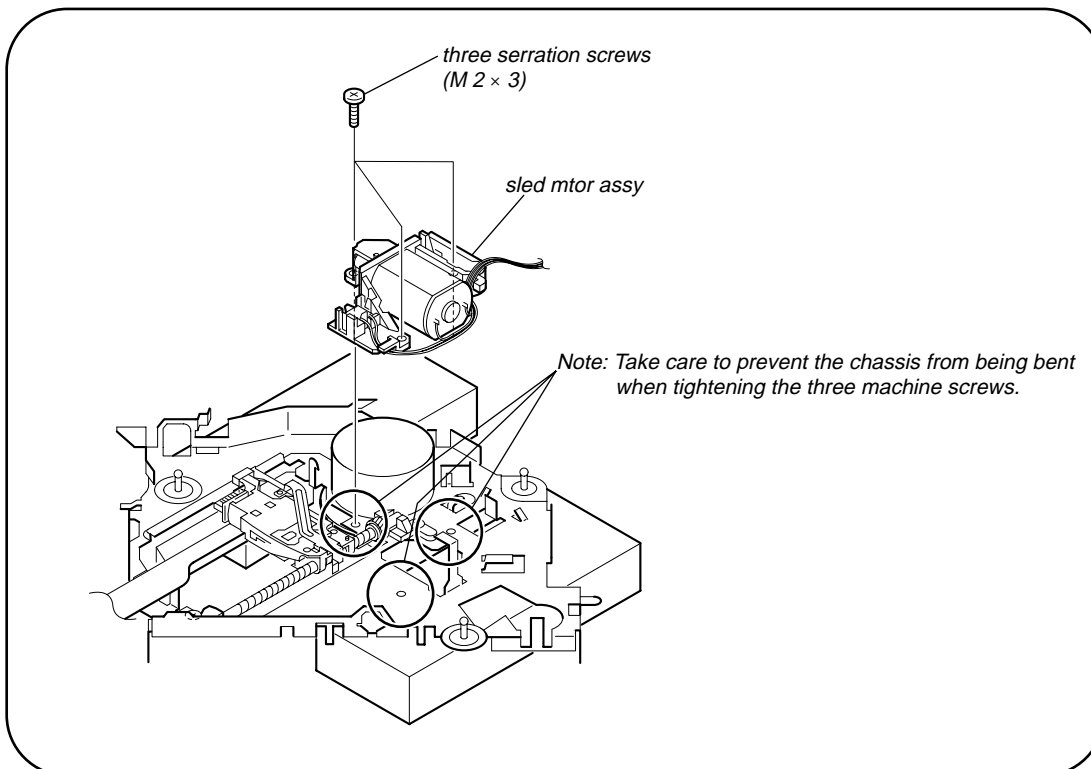


Note: Place the stand with care not to touch the turn table.

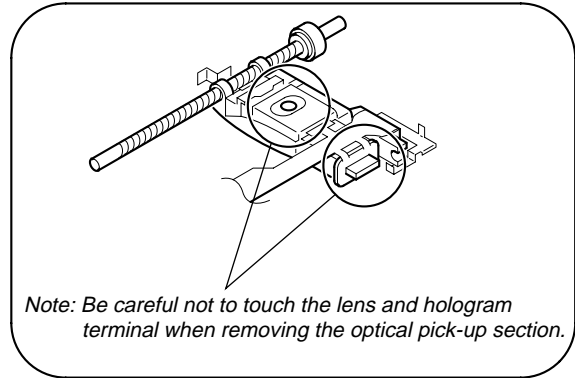
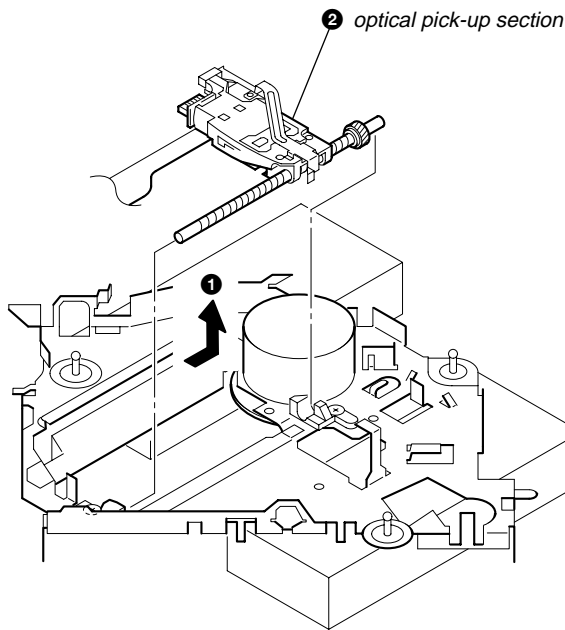
Note:
Never remove these parts since they were adjusted.



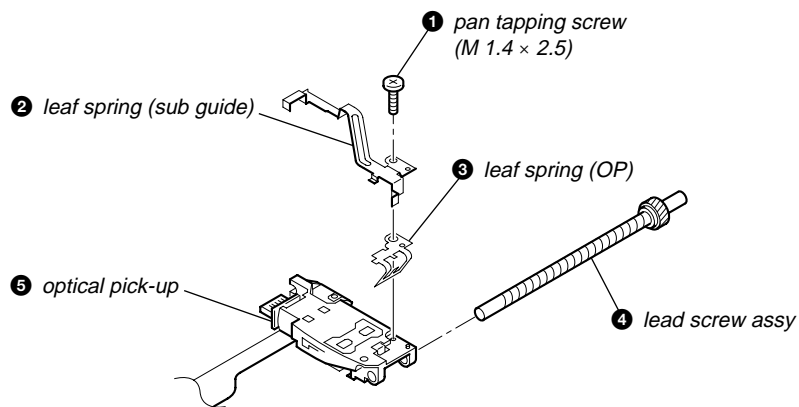
Note for Assembly



3. OPTICAL PICK-UP SECTION



4. OPTICAL PICK-UP



Notes for Assembly

