

CDX-M60UI/MR60UI

SERVICE MANUAL

Ver. 1.1 2009.02

US Model
Canadian Model
CDX-M60UI

AEP Model
UK Model
CDX-MR60UI

E Model
CDX-M60UI



Photo: CDX-MR60UI

- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (CDX-M60UI)

CEA2006 Standard
Power Output: 17 Watts RMS \times 4 at
4 Ohms $< 1\%$ THD + N
SN Ratio: 82 dBA
(reference: 1 Watt into 4 Ohms)

Model Name Using Similar Mechanism	CDX-GT630UI
CD Drive Mechanism Type	MG-101Z-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:
CDX-M60UI:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
CDX-MR60UI: 87.5 – 108.0 MHz

FM tuning interval:

CDX-M60UI: 50 kHz/200 kHz switchable

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 150 kHz

Usable sensitivity: 10 dBf

Selectivity: 75 dB at 400 kHz

Signal-to-noise ratio: 70 dB (mono)

Separation: 40 dB at 1 kHz

Frequency response: 20 – 15,000 Hz

AM (CDX-M60UI)

Tuning range:

531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)

AM tuning interval:

9 kHz/10 kHz switchable

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 25 kHz

Sensitivity: 26 μ V

MW/LW (CDX-MR60UI)

Tuning range:

MW: 531 – 1,602 kHz
LW: 153 – 279 kHz

Antenna (aerial) terminal:

External antenna (aerial) connector

Intermediate frequency: 25 kHz

Sensitivity:

MW: 26 μ V, LW: 45 μ V

USB Player section

Interface: USB (Full-speed)
Maximum current: 500mA

Power amplifier section

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

– Continued on next page –

CDX-M60UI
FM/AM COMPACT DISC PLAYER
CDX-MR60UI
FM/MW/LW COMPACT DISC PLAYER

9-889-364-02

2009B04-1

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Sony Corporation

Audio&Video Business Group

Published by Sony Techno Create Corporation

SONY[®]

General

Output:

- Audio outputs terminal (front/rear)
- Subwoofer output terminal (mono)
- Power antenna (aerial) relay control terminal
- Power amplifier control terminal

Inputs:

- Remote controller input terminal
- Antenna (aerial) input terminal
- Telephone ATT control terminal
- Illumination control terminal
- BUS control input terminal
- BUS audio input terminal
- AUX input jack (stereo mini jack)
- BUS signal input terminal

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 boat battery
(negative ground (earth))

Dimensions: Approx. 178 × 50 × 182 mm
(7 1/8 × 2 × 7 1/4 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. 1.3 kg (2 lb. 14 oz.)

Supplied accessories:

- Card remote commander: RM-X151
- Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

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

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

NOTES ON LASER DIODE EMISSION CHECK

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 pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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.

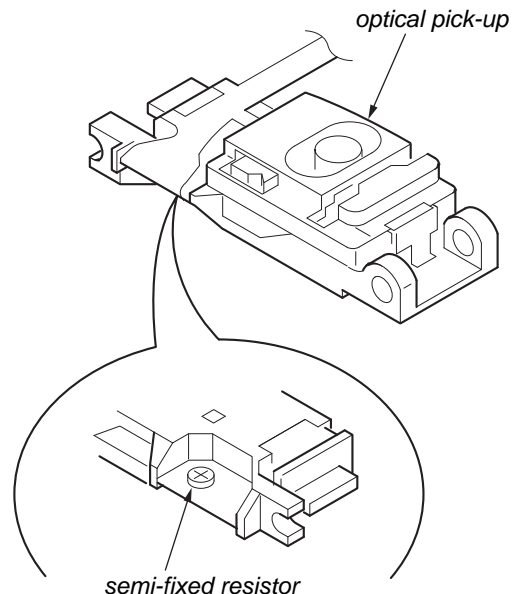
If the optical pick-up block is defective, please replace the whole optical pick-up block. Never turn the semi-fixed resistor located at the side of optical pick-up block.

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.









This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.



This label is located on the bottom of the chassis.

- **CD Play back**
You can play CD-DA (also containing CD TEXT) and CD-R/CD-RW (MP3/WMA/AAC files).

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

UNLEADED SOLDER

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

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

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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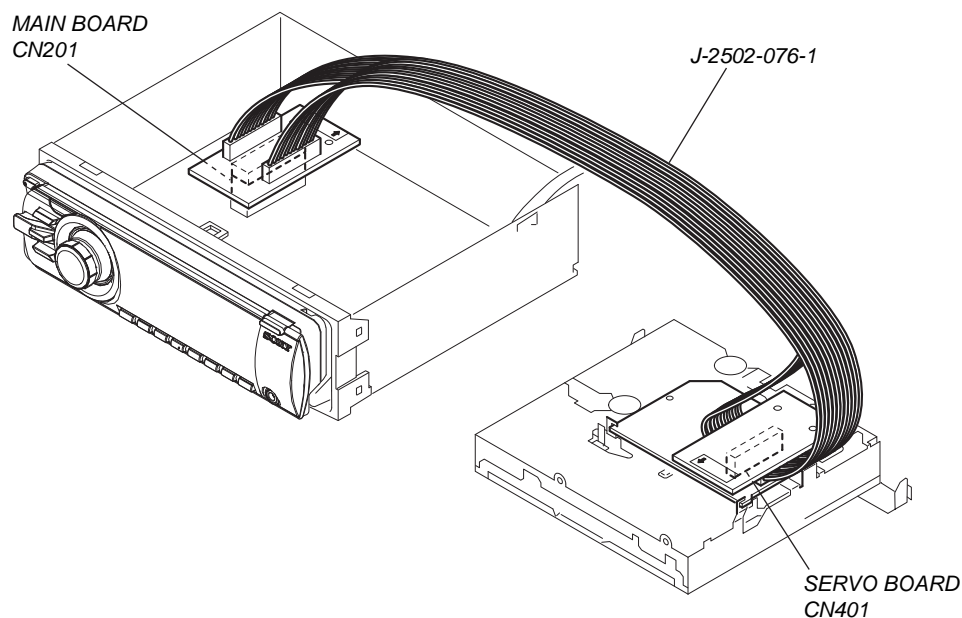
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SECTION 1 SERVICE NOTES

EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CN201) and the SERVO board (CN401) with the extension cable (Part No. J-2502-076-1).



NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (Part No. A-1554-409-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR THE 20-PIN CONNECTOR (CN901)

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

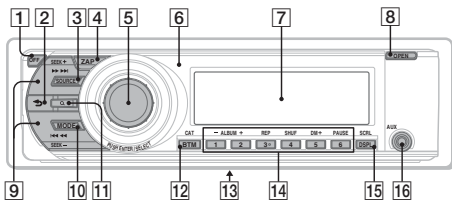
SECTION 2 GENERAL

This section is extracted from instruction manual.

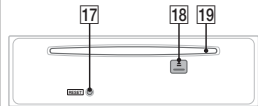
- LOCATION OF CONTROLS
- CDX-M60UI

Location of controls and basic operations

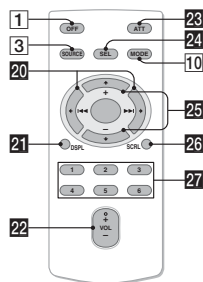
Main unit



Front panel removed



Card remote commander RM-X151



This section contains instructions on the location of controls and basic operations. For details, see the respective pages. The corresponding buttons on the card remote commander control the same functions as those on the unit.

- OFF button**
To power off; stop the source.
- BACK button** page 10
To return to the previous display.
- SOURCE button**
To power on; change the source (Radio/CD/USB/AUX)*1.
- ZAP button** page 11
To enter ZAPPIN™ mode.
- Control dial/select button**
To adjust volume (rotate); select setup items (press and rotate).
- Receptor for the card remote commander**
- Display window**
- OPEN button** page 7
- SEEK +/- buttons** CD/USB:
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).

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- MODE button** page 11, 14, 15
Press to: Select the radio band (FM/AM)*1/ select the play mode of iPod. Press and hold to: Enter/cancel the passenger control.
- Q (BROWSE) button** page 10
To enter the Quick-BrowZer mode.
- BTM/CAT*2 button** page 11
To start the BTM function (press and hold).
- Frequency select switch** (located on the bottom of the unit)
See "Frequency select switch" in the supplied installation/connections manual.
- Number buttons** CD/USB:
① ②: **ALBUM +/-** (during MP3/WMA/AAC playback)
To skip albums (press); skip albums continuously (press and hold).
③: **REP** page 12, 13, 15
④: **SHUF** page 12, 13, 15
⑤: **DM+**
Improves digitally compressed sound, such as MP3.
To activate the DM+ function, set "ON." To cancel, set "OFF."
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- DSPL (display)/SCRL (scroll) button** page 12, 13, 15
To change display items (press); scroll the display item (press and hold).
- AUX input jack** page 18
To connect a portable audio device.
- RESET button** page 6
- Eject button**
To eject the disc.
- Disc slot**
To insert the disc.

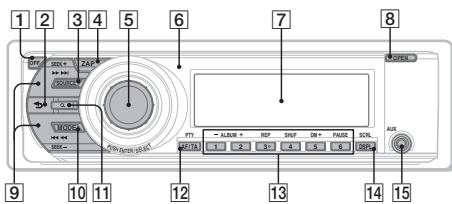
- The following buttons on the card remote commander have also different buttons/functions from the unit. Remove the insulation film before use (page 6).
- Q (BROWSE) button**
To control CD/radio/USB, the same as (SEEK) +/- on the unit. Setup, sound setting, etc., can be operated by ← →.
 - DSPL (display) button** page 12, 13, 15
To change display items.
 - VOL (volume) +/- button**
To adjust volume.
 - ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
 - SEL (select) button**
The same as the select button on the unit.
 - +/− (−) buttons**
To control CD/USB, the same as ① ② (ALBUM +/-) on the unit. Setup, sound setting, etc., can be operated by ↑ ↓.
 - SCRL (scroll) button**
To scroll the display item.
 - Number buttons**
To receive stored stations (press); store stations (press and hold).
- *1 In the case of a CD changer, HD Radio tuner or SAT tuner being connected; when (SOURCE) is pressed, the connected device ("HD," "XM" or "SR") will appear in the display, depending on which device is connected. Furthermore, if (MODE) is pressed, you can switch the changer, HD Radio tuner band or SAT tuner band.
*2 When the SAT tuner is connected.
- 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.

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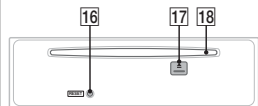
- CDX-MR60UI

Location of controls and basic operations

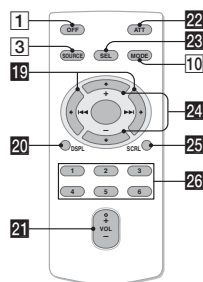
Main unit



Front panel removed



Card remote commander RM-X151



This section contains instructions on the location of controls and basic operations. For details, see the respective pages. The corresponding buttons on the card remote commander control the same functions as those on the unit.

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To power off; stop the source.
- BACK button** page 10
To return to the previous display.
- SOURCE button**
To power on; change the source (Radio/CD/USB/AUX)*.
- ZAP button** page 11
To enter ZAPPIN™ mode.
- Control dial/select button**
To adjust volume (rotate); select setup items (press and rotate).
- Receptor for the card remote commander**
- Display window**
- OPEN button** page 7
- SEEK +/- buttons** CD/USB:
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).

- MODE button** page 11, 16, 17
Press to: Select the radio band (FM/MW/LW)*select the play mode of iPod. Press and hold to: Enter/cancel the passenger control.
- Q (BROWSE) button** page 10
To enter the Quick-BrowZer mode.
- AF (Alternative Frequencies)/TA (Traffic Announcement)/PTY (Program Type) button** page 12, 13
To set AF and TA (press); select PTY (press and hold) in RDS.
- Number buttons** CD/USB:
① ②: **ALBUM +/-** (during MP3/WMA/AAC playback)
To skip albums (press); skip albums continuously (press and hold).
③: **REP** page 13, 15, 16
④: **SHUF** page 13, 15, 16
⑤: **DM+**
Improves digitally compressed sound, such as MP3.
To activate the DM+ function, set "ON." To cancel, set "OFF."
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- DSPL (display)/SCRL (scroll) button** page 12, 13, 14, 16, 17
To change display items (press); scroll the display item (press and hold).
- AUX input jack** page 19
To connect a portable audio device.
- RESET button** page 6
- Eject button**
To eject the disc.
- Disc slot**
To insert the disc.

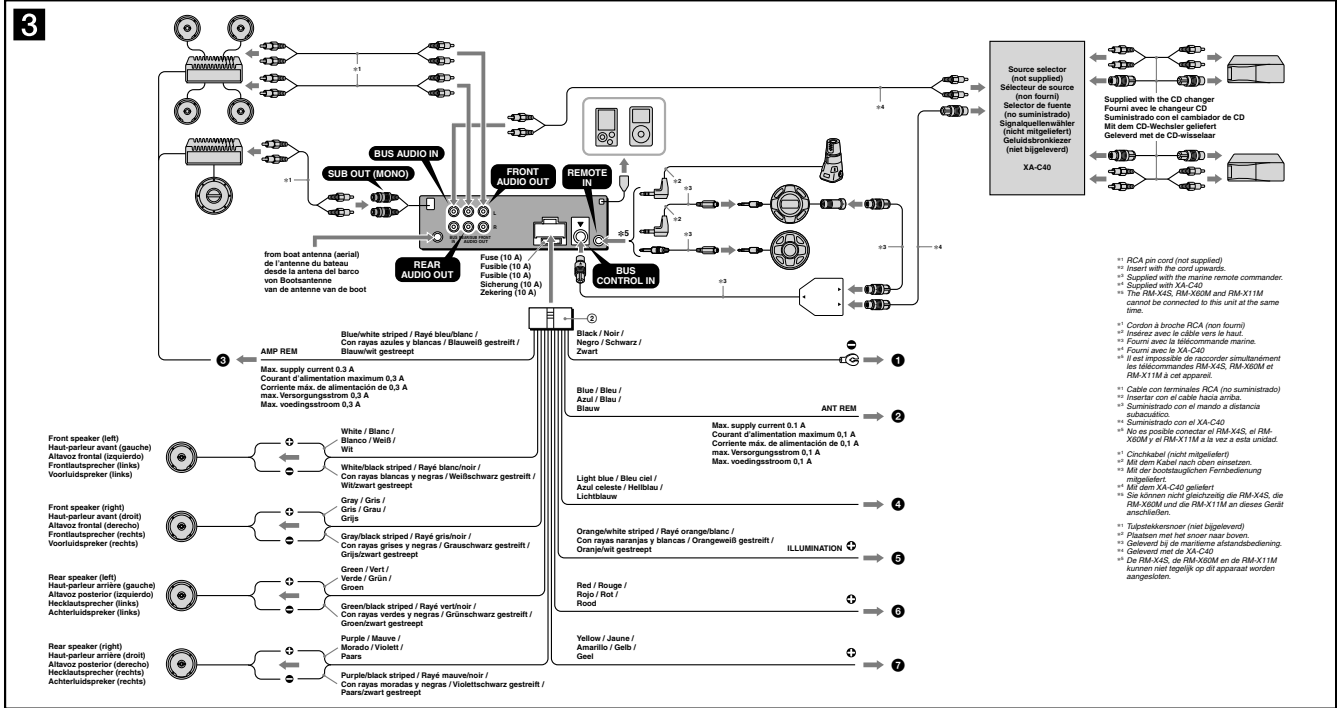
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 - DSPL (display) button** page 12, 13, 14, 16, 17
To change display items.
 - VOL (volume) +/- button**
To adjust volume.
 - ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
 - SEL (select) button**
The same as the select button on the unit.
 - +/− (−) buttons**
To control CD/USB, the same as ① ② (ALBUM +/-) on the unit. Setup, sound setting, etc., can be operated by ↑ ↓.
 - SCRL (scroll) button**
To scroll the display item.
 - Number buttons**
To receive stored stations (press); store stations (press and hold).
- * In the case of a CD changer being connected; when (SOURCE) is pressed, "CD" and the unit number will appear in the display. Furthermore, if (SOURCE) is pressed, you can switch the changer.
- 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.

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CDX-M60UI/MR60UI

• CONNECTIONS • CDX-M60UI



Connection diagram 3

- To battery or distribution block ground**
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**
* 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 boat has a built-in FM/AM antenna (aerial) in the radio/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 telephone**
Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.
 - To the illumination signal**
Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.
 - To the +12 V power terminal which is energized in the accessory position of the ignition switch**
If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
Be sure to connect the black ground (earth) lead to the battery or distribution block ground first.
 - To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground (earth) lead to the battery or distribution block ground 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.
 - 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 damage.
 - Do not connect the speaker terminals to the boat chassis, or connect the terminals of the right speaker 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 (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 boat 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, "FALLURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schémas de raccordement 3

- Vers la batterie ou le répartiteur de terre**
Brancher d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.
 - Vers le câble de commande d'antenne électrique ou le câble d'alimentation de l'amplificateur d'antenne**
Remarque
* Si 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 bateau est équipé d'une antenne FM/AM intégrée dans la vitre arrière/rétroviseur, reportez-vous à la section "Remarques sur les câbles de commande et d'alimentation".
 - Vers AMP REMOTE IN de un amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le raccordement de tout autre système risque d'endommager l'appareil.
 - Vers le câble d'interface d'un téléphone**
 - Vers le signal d'allumage**
Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.
 - Vers la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoire**
Remarque
Si il n'y a pas de position accessoire, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.
 - Vers la borne +12 V qui est alimentée en permanence**
Commencez par raccorder le câble de mise à la masse noir à la batterie ou au répartiteur de terre.
- Remarques sur les câbles de commande et d'alimentation**
- Le câble de commande d'antenne électrique (bleu) fournit une alimentation de +12 V DC lorsque vous mettez la radio sous tension.
 - 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 de commande d'antenne jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact n'est en 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 et une capacité adéquate sans risque de dommages.
 - Néanmoins, ne raccordez pas les bornes des haut-parleurs au châssis du bateau, et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
 - Néanmoins, ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (-) du haut-parleur.
 - Néanmoins, ne tentez pas de raccorder les haut-parleurs en parallèle.
 - Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.
 - Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre bateau si l'appareil dispose d'un câble négatif commun (-) pour les haut-parleurs droit et gauche.
 - Néanmoins, 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 "FALLURE" s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont raccordés correctement.

Diagrama de conexión 3

- A la conexión a masa de la batería o del bloque de distribución**
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de alimentación.
 - Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
Nota sobre los cables de control y de fuente de alimentación
* 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 barco incorpora una antena FM/AM en el cristal posterior 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**
 - A una señal de iluminación**
Comience por conectar el cable de conexión a masa negro a la toma de masa de la batería o del bloque de distribución.
 - Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido**
Nota
Si no hay posición de accesorio, conecte al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
 - Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Comience por conectar el cable de conexión a masa negro a la toma de masa de la batería o del bloque de distribución.
- 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.
 - Con esta unidad no es posible utilizar una antena motorizada sin cable de red.
- Conexión para protección de la memoria**
- Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces

 - Antes de conectar los altavoces, desconecte la alimentación de la unidad.
 - Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
 - No conecte los terminales de altavoz 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 barco 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.

Nota sobre la conexión

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

Anschlussdiagramm 3

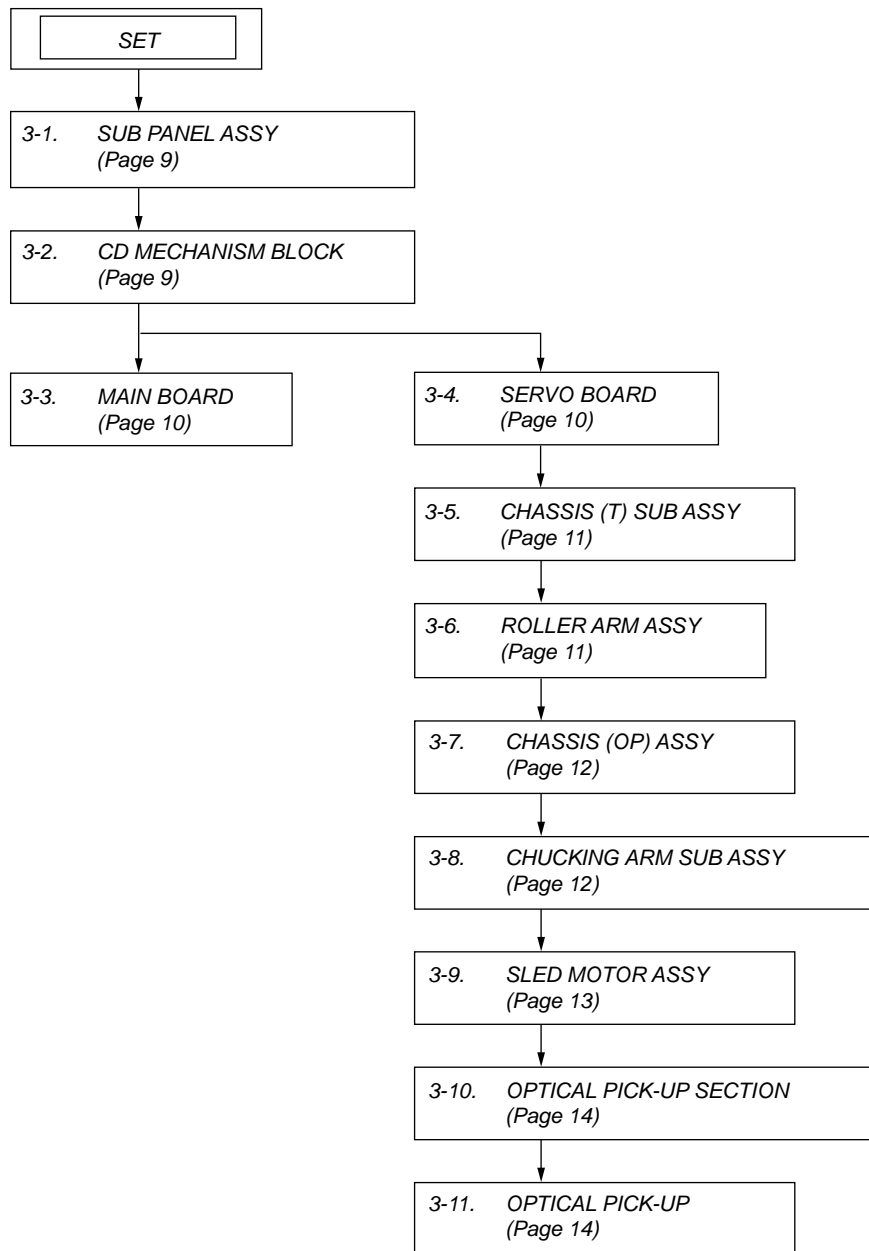
- An Batterie oder Verteilerblockmasse**
Schließen Sie zuerst die schwarze Masseleitung und dann die gelbe und rote Stromversorgungsleitung an.
 - An Motorantennen-Steuerleitung oder Stromversorgungsleitung für Antennenverstärker**
Hinweise
* Diese Leitungen brauchen Sie nicht anschließen, wenn keine Motorantenne bzw. kein Antennenverstärker vorhanden ist oder wenn Sie eine manuell ausziehbare Teleskopantenne verwenden.
* Wenn das Boot mit einer der Heck-/Seitenröhrenschalbe integrierten FM/AM-Antenne ausgestattet ist, lesen Sie unter "Hinweise zu den Steuer- und Stromversorgungsleitungen" nach.
 - An AMP REMOTE IN des gesondert erhältlichen Endverstärkers**
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
 - An die Schrittelkabelkabine eines Telefons**
 - An die Signalleitung für Beleuchtung**
Achten Sie darauf, die schwarze Masseleitung zuerst an die Batterie oder die Verteilerblockmasse anzuschließen.
 - An den +12-V-Stromversorgungsanschluss, an dem Spannung anliegt, wenn sich das Zündschloss in der Zubehörposition befindet**
Hinweise
Wenn das Zündschloss keine Zubehörposition (ACC oder I) aufweist, schließen Sie die Leitung an den +12-V-Stromversorgungsanschluss (Batterie) an, an dem immer Spannung anliegt.
Achten Sie darauf, die schwarze Masseleitung zuerst an die Batterie oder die Verteilerblockmasse anzuschließen.
 - An den +12-V-Stromversorgungsanschluss, an dem immer Spannung anliegt**
Hinweise zu den Steuer- und Stromversorgungsleitungen
Die Motorantennen-Steuerleitung (blau) liefert +12 Volt Gleichstrom, wenn Sie den Tuner einschalten.
Es kann nur eine Motorantenne mit Relaiskasten angeschlossen werden.
- Stromversorgung des Speichers**
- Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschaltetem Zündung) mit Strom versorgt.
- Hinweise zum Lautsprecheranschluss**
- Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ω mit ausreichender Belastbarkeit. Achten Sie auf die Lautsprecherbestätigung.
 - Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Bootchassis und verbinden Sie auch nicht die Anschlüsse des rechten (-) mit dem linken Lautsprecher.
 - Verbinden Sie die Lautsprecher parallel.
 - Versuchen Sie nicht, Lautsprecher parallel anzuschließen.
 - An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da diese Gerät sonst beschädigt werden könnte.
 - Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Boot installierten, integrierten Lautsprecherleitungen, wenn am Ende ein gemeinsames negatives (-) Leitungs für den rechten und den linken Lautsprecher vorhanden sind.
 - Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.
- Hinweis zum Anschluss**
- Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint "FALLURE" im Display. Wenn dies der Fall ist, überprüfen Sie die Lautsprecher- und Verstärker richtig angeschlossen sind.

Aansluitschema 3

- Naar aarding van accu of verdeelkast**
Sluit eerst de zwarte aardsidekabel aan en vervolgens de gele en rode voedingskabel.
 - Naar de bedieningskabel van de elektrische antenne of voedingskabel van de antenneversterker**
Opmerkingen
* Het is niet nodig deze kabel aan te sluiten als er geen elektrische antenne of antenneversterker is, of bij een manueel uitvouwbaar teleskoopantenne.
* Zie "Opmerkingen over de bedienings- en voedingskabel" als uw boot beschikt over een ingebouwde FM-AM-antenne.
 - Naar AMP REMOTE IN van een optioneel endversterker**
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.
 - Naar het interface-snoer van een telefoon**
 - Naar het verlichtingssignaal**
Zorg ervoor dat u eerst de zwarte aardsidekabel aansluit op de aarding van de accu of de verdeelkast.
 - Naar de +12V voedingsaansluiting die stroom ontvangt in de accessoirepositie (ACC) van de contactschakelaar**
Opmerking
Als er geen accessoirepositie (ACC) is, moet u verbinding maken met de +12 V voedingsaansluiting (accu) die altijd stroom ontvangt.
Zorg ervoor dat u eerst de zwarte aardsidekabel aansluit op de aarding van de accu of de verdeelkast.
 - Naar de +12V voedingsaansluiting die altijd stroom ontvangt**
Zorg ervoor dat u eerst de zwarte aardsidekabel aansluit op de aarding van de accu of de verdeelkast.
- Opmerkingen over de bedienings- en voedingskabel**
- De bedieningskabel van de elektrische antenne (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt.
 - Met dit apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.
- Instellingsadvies voor het geheugen**
- Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen actief, ook wanneer het contact wordt uitgeschakeld.
- Opmerkingen betreffende het aansluiten van de luidsprekers aan te sluiten**
- Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.
 - Gebruik luidsprekers met een impedantie van 4 tot 8 Ω en let op dat die het vermogen van de versterker kunnen weerstaan. Als u niet doet, kunnen de luidsprekers ernstig beschadigd raken.
 - Verbind de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.
 - Verbind de aardside van dit apparaat niet met de negatieve (-) aarding van de luidspreker.
 - Probeer niet de luidsprekers parallel aan te sluiten.
 - Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeransluiting van dit apparaat. Dit kan leiden tot beschadiging van de actieve luidsprekers. Sluit ook altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.
 - Om de risico's te vermijden mag u de ingebouwde luidsprekerleidingen van het boot niet gebruiken wanneer er een gemeenschappelijk negatieve (-) draad is voor de rechter- en linkerluidspreker.
 - Verbind de luidsprekerkabels niet met elkaar.
- Opmerking over aansluiten**
- Als de luidspreker en versterker niet correct zijn aangesloten, wordt "FALLURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.

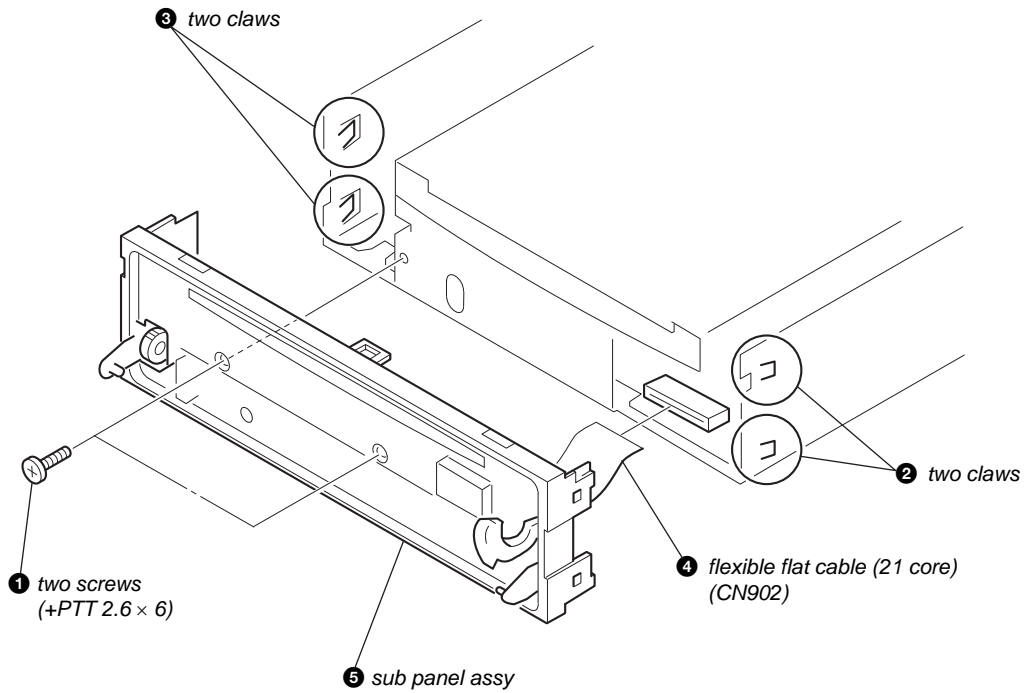
SECTION 3 DISASSEMBLY

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

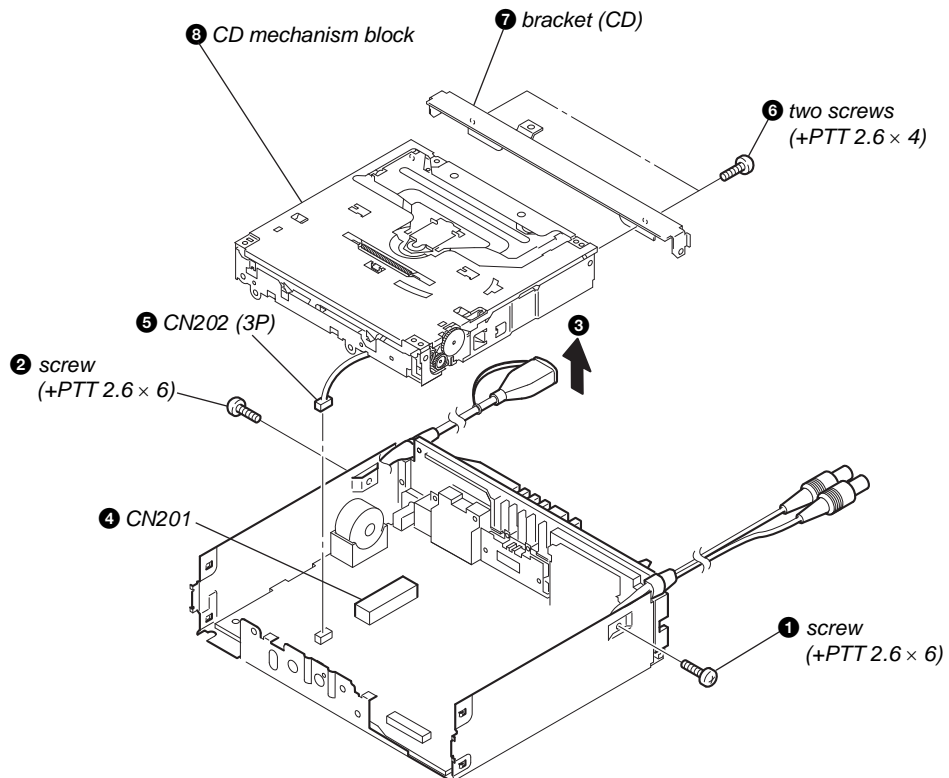


Note: Follow the disassembly procedure in the numerical order shown below.

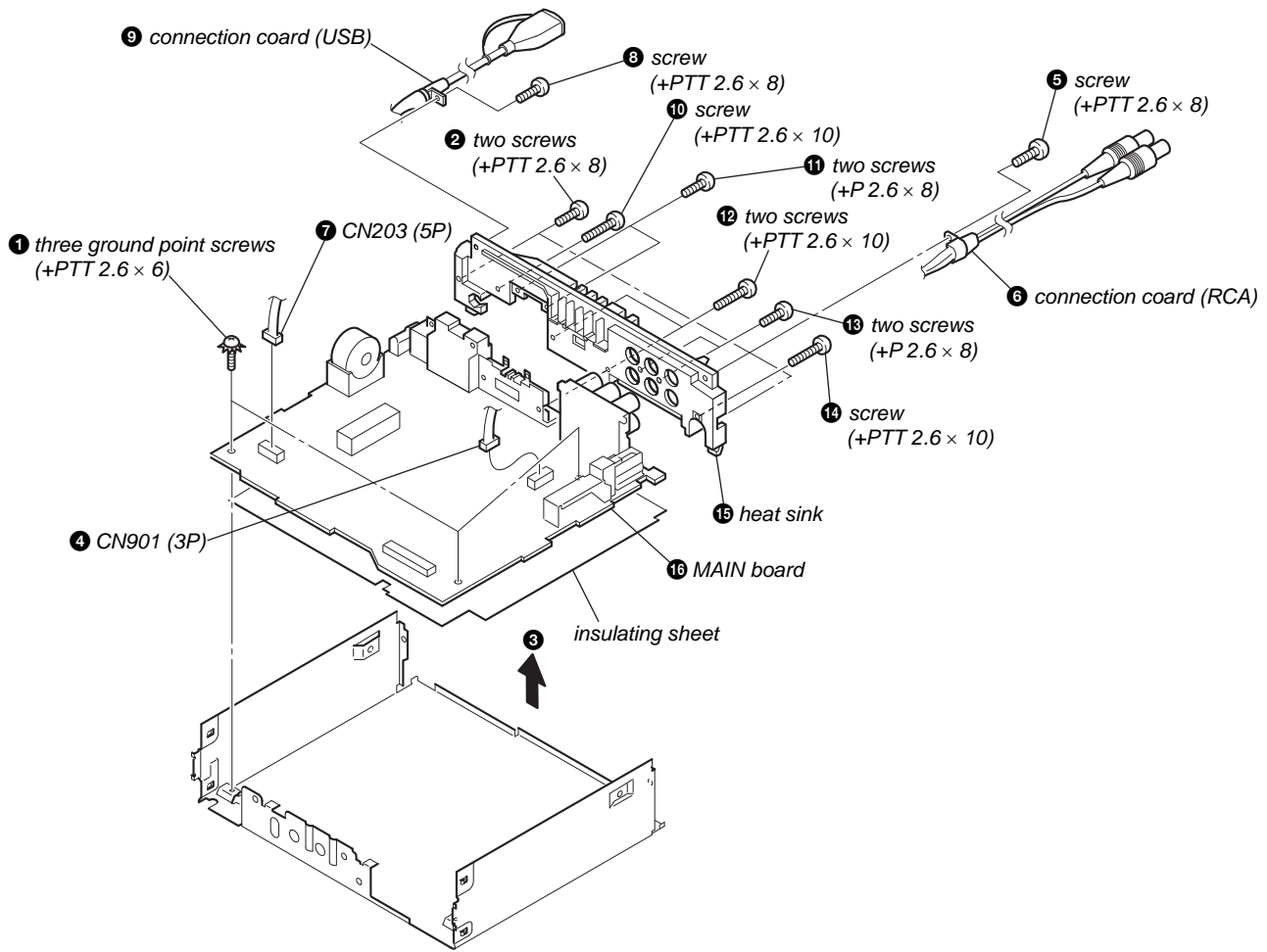
3-1. SUB PANEL ASSY



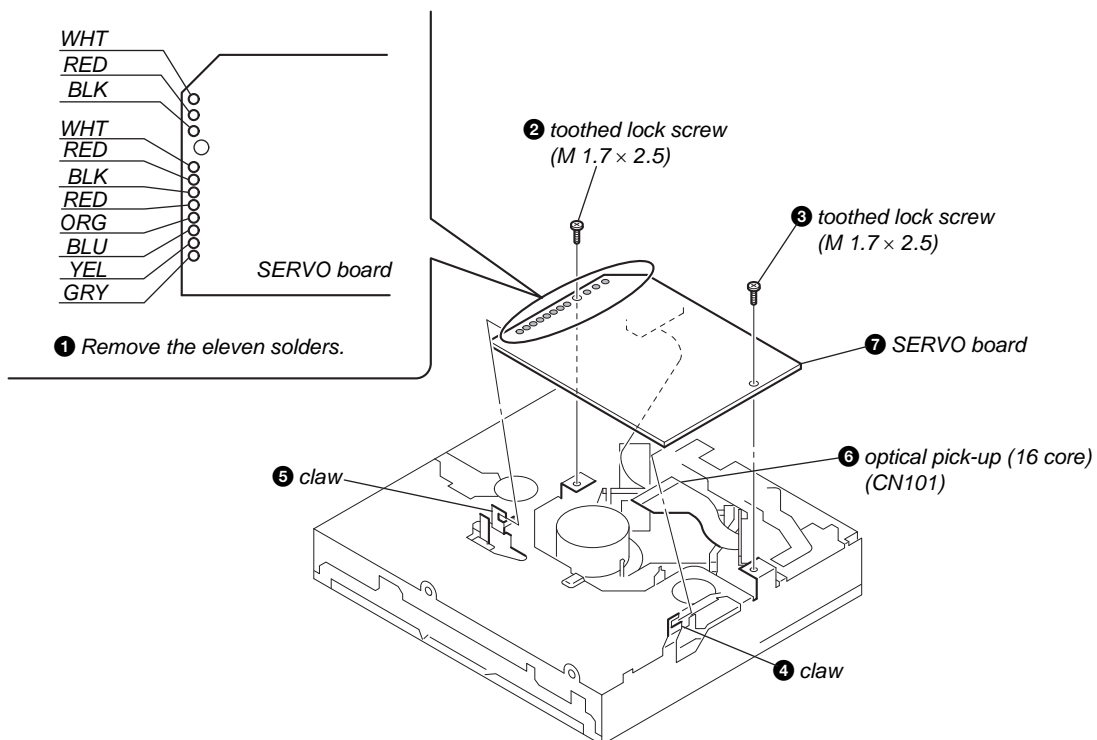
3-2. CD MECHANISM BLOCK



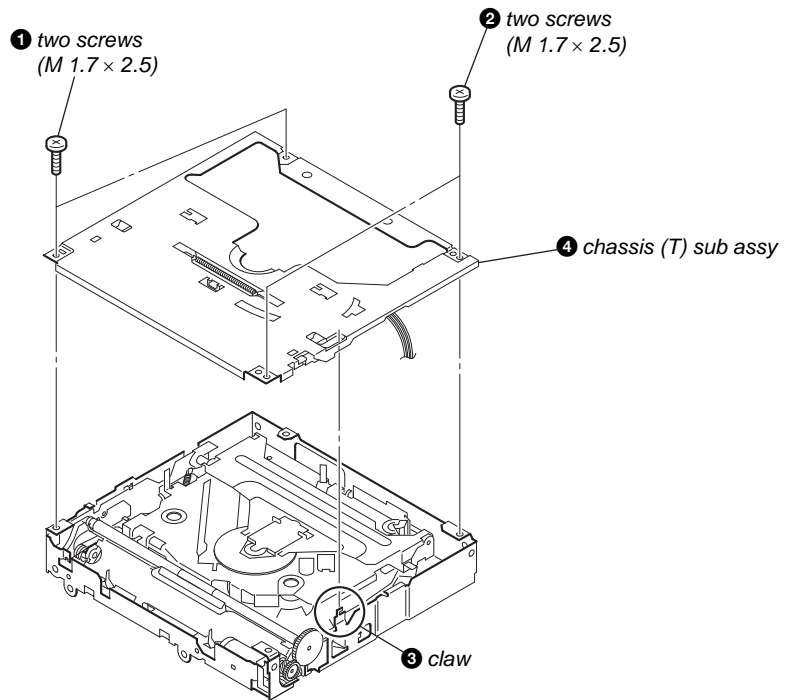
3-3. MAIN BOARD



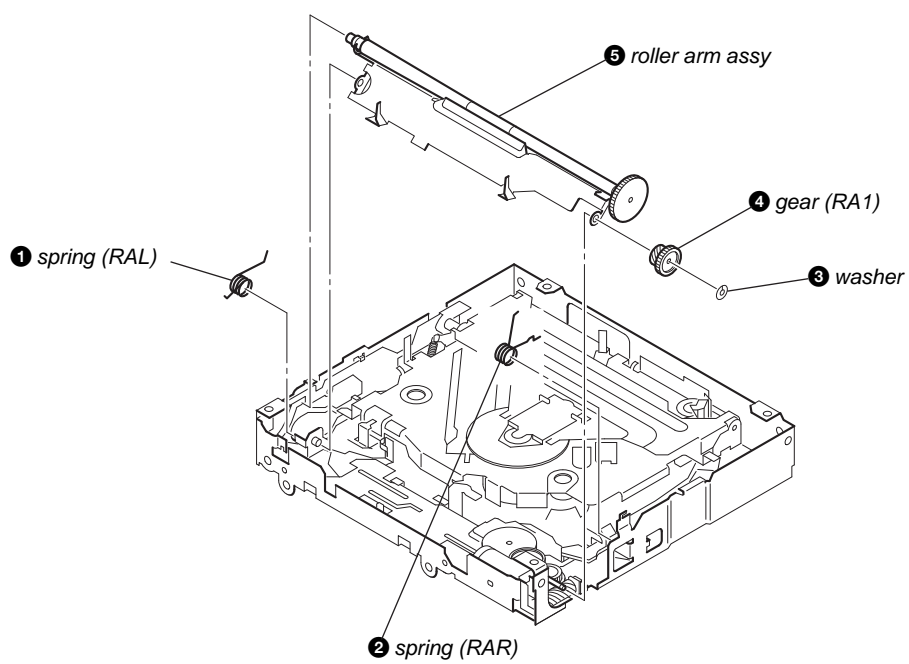
3-4. SERVO BOARD



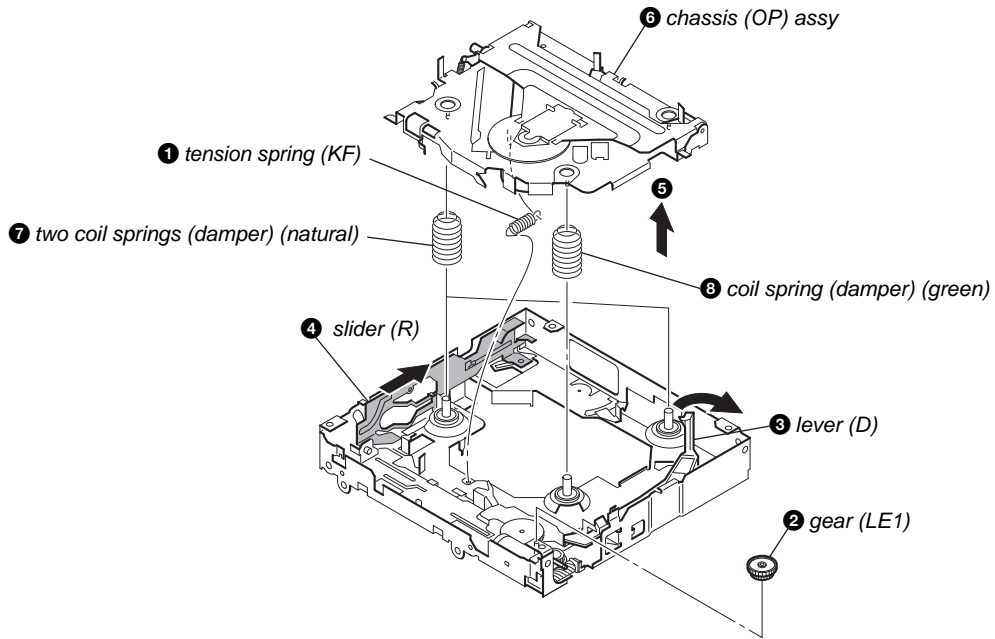
3-5. CHASSIS (T) SUB ASSY



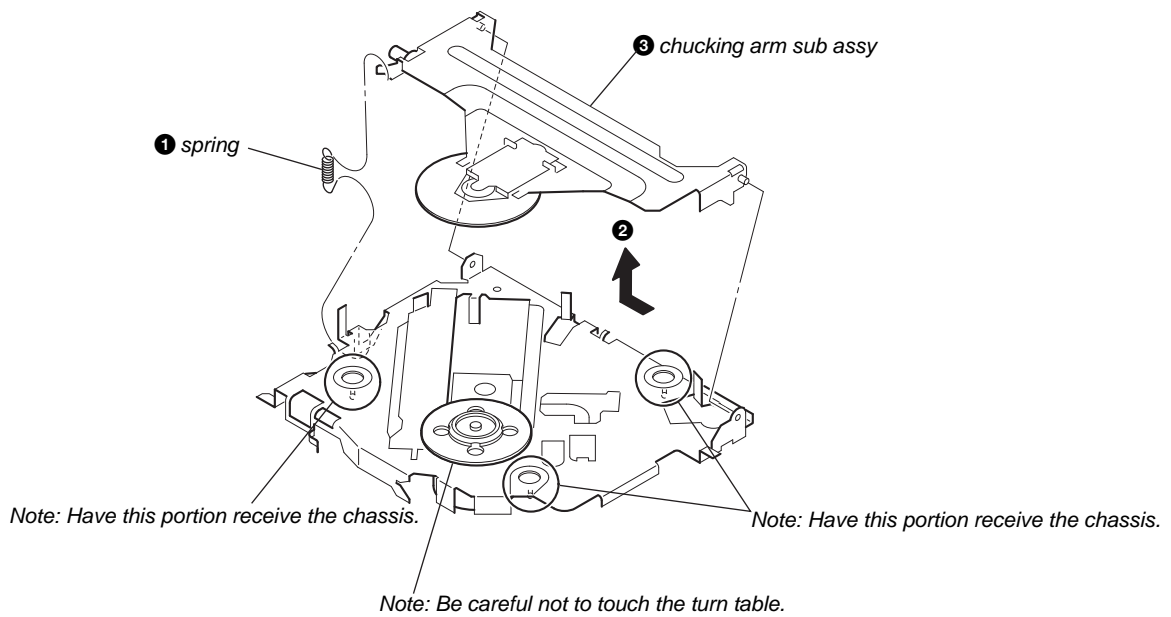
3-6. ROLLER ARM ASSY



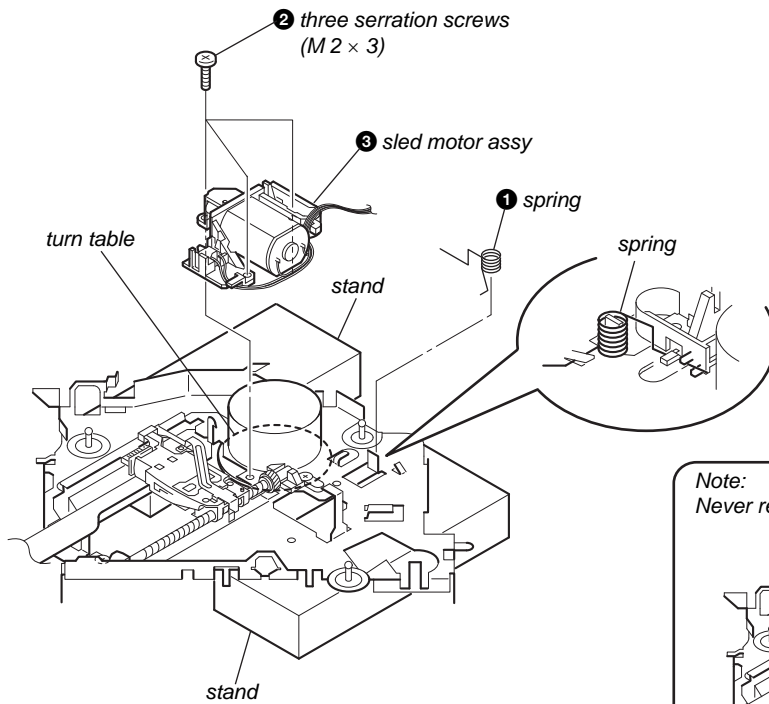
3-7. CHASSIS (OP) ASSY



3-8. CHUCKING ARM SUB ASSY

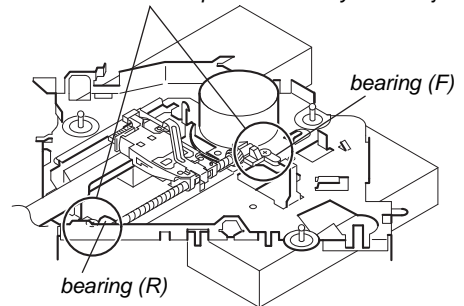


3-9. SLED MOTOR ASSY

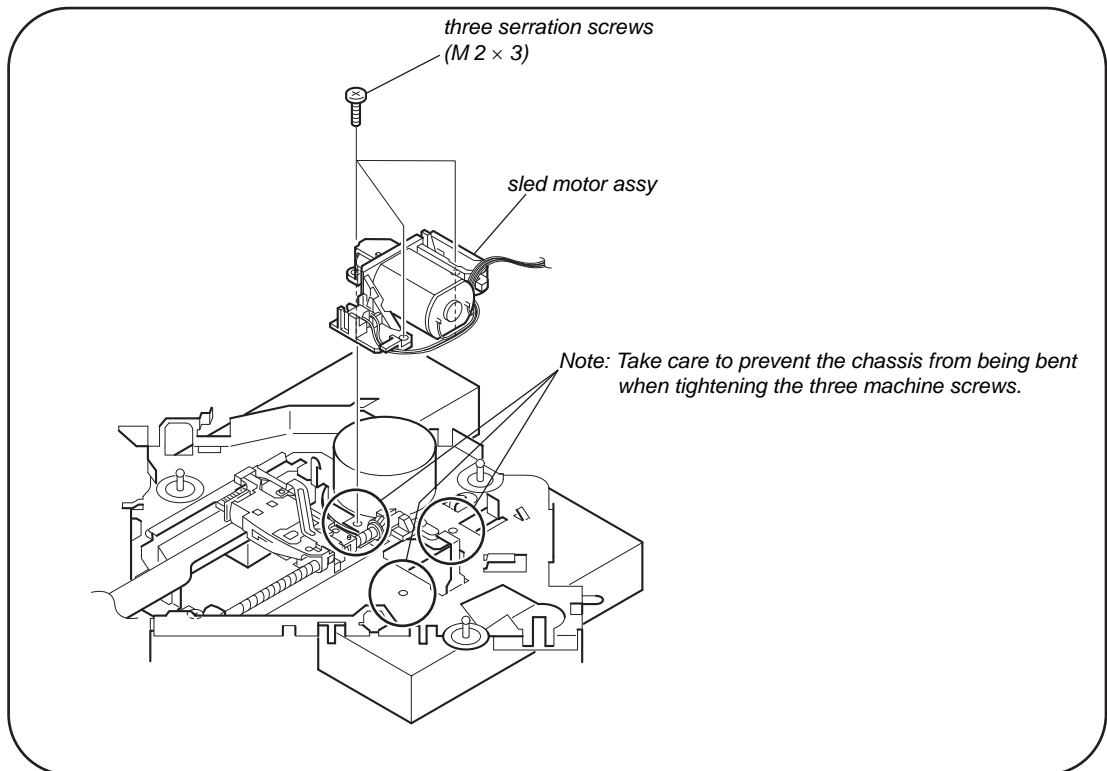


Note: Place the stand with care not to touch the turn table.

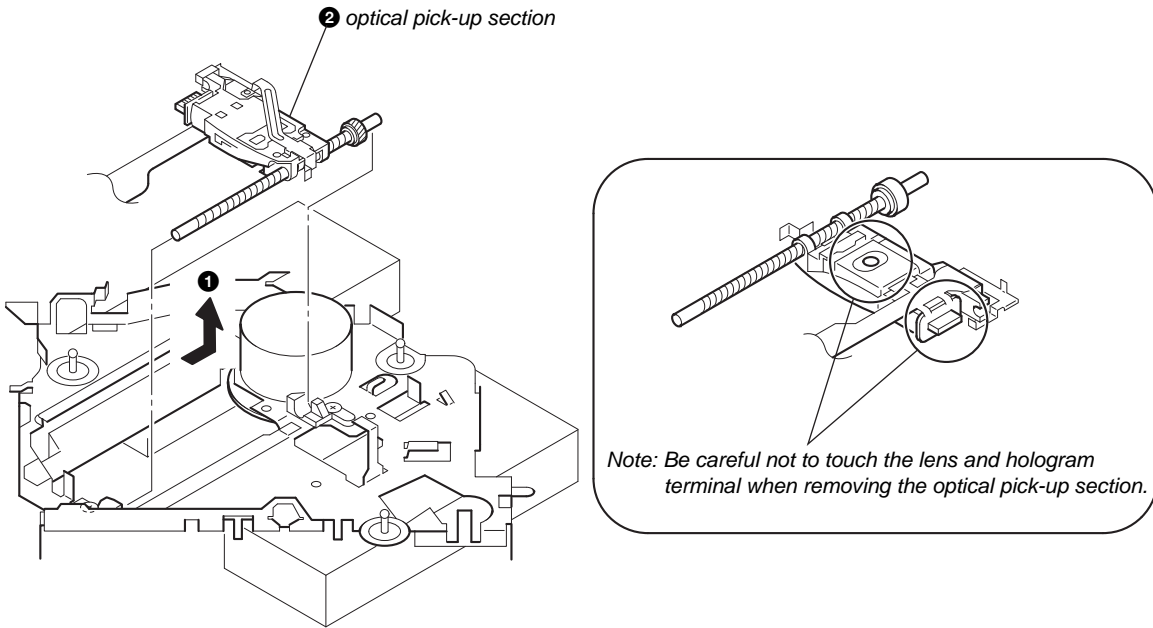
Note:
Never remove these parts since they were adjusted.



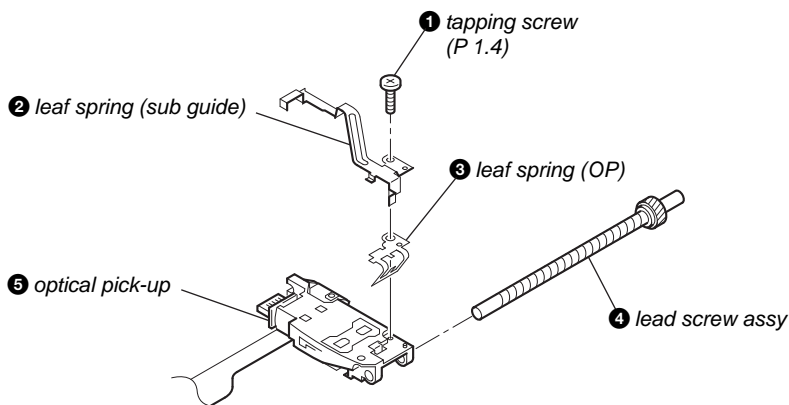
Note for Assembly



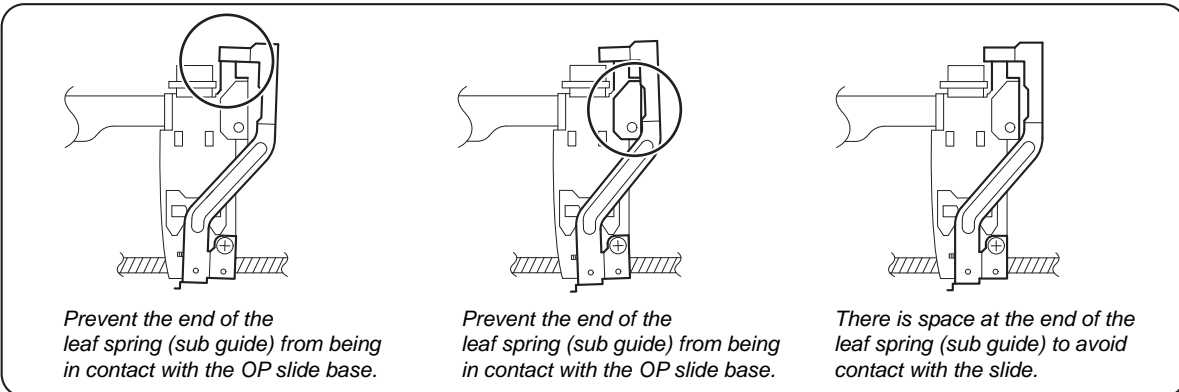
3-10. OPTICAL PICK-UP SECTION



3-11. OPTICAL PICK-UP

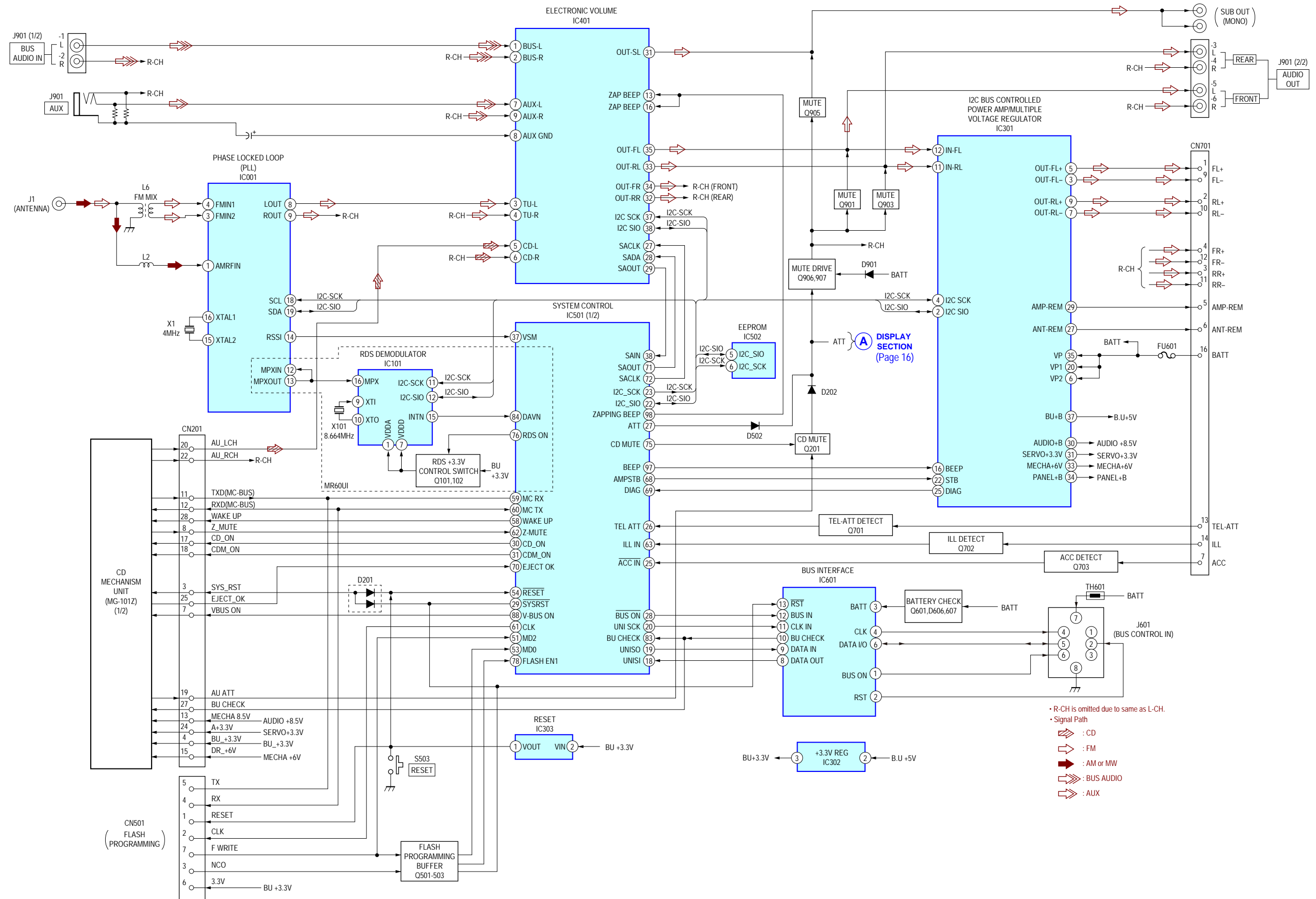


Notes for Assembly

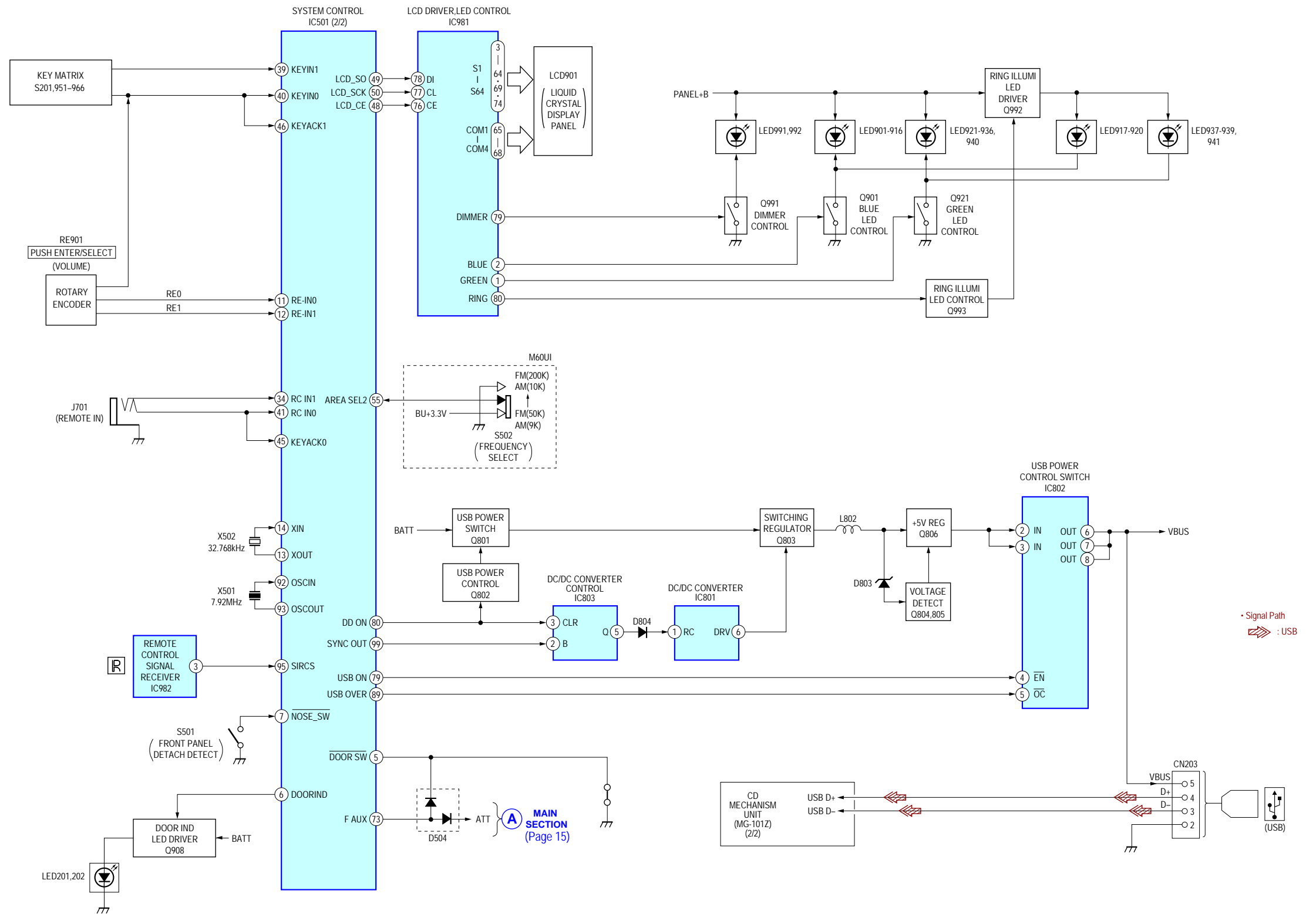


SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM – MAIN Section –



4-2. BLOCK DIAGRAM – DISPLAY Section –



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

For Printed Wiring Boards:

Note:

- : Parts extracted from the component side.
- : parts extracted from the conductor side.
- : Through hole.
- : 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 pattern face are indicated.
 (SIDE B)
 Parts face side: Parts on the parts face side seen from the parts face are indicated.
 (SIDE A)

For schematic diagrams:

Note:

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

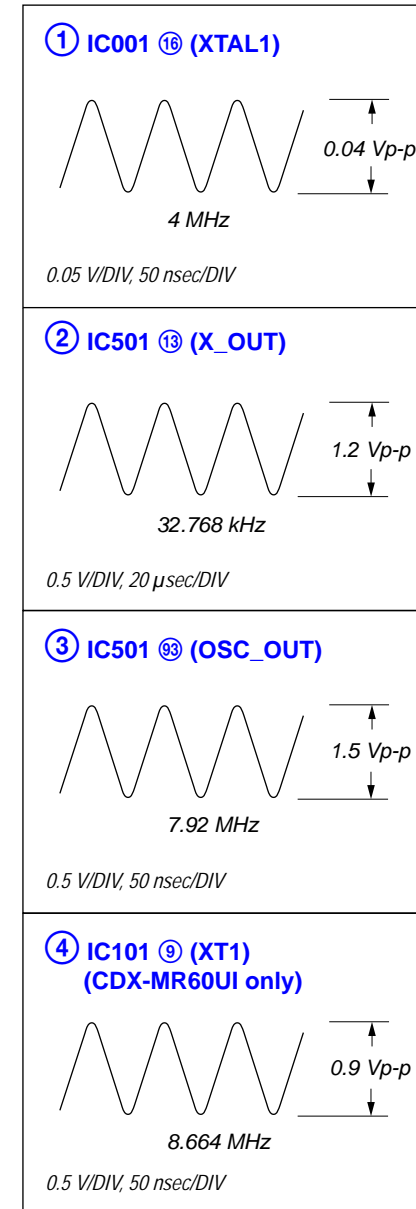
Note:

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

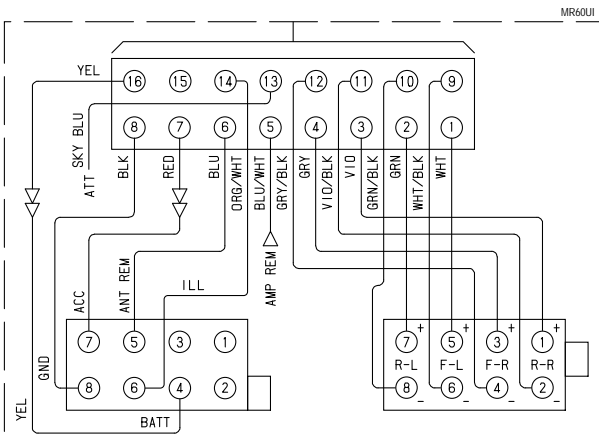
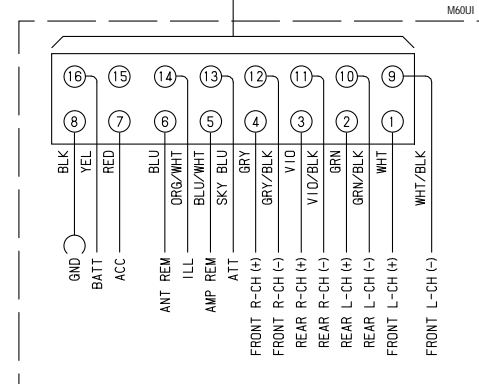
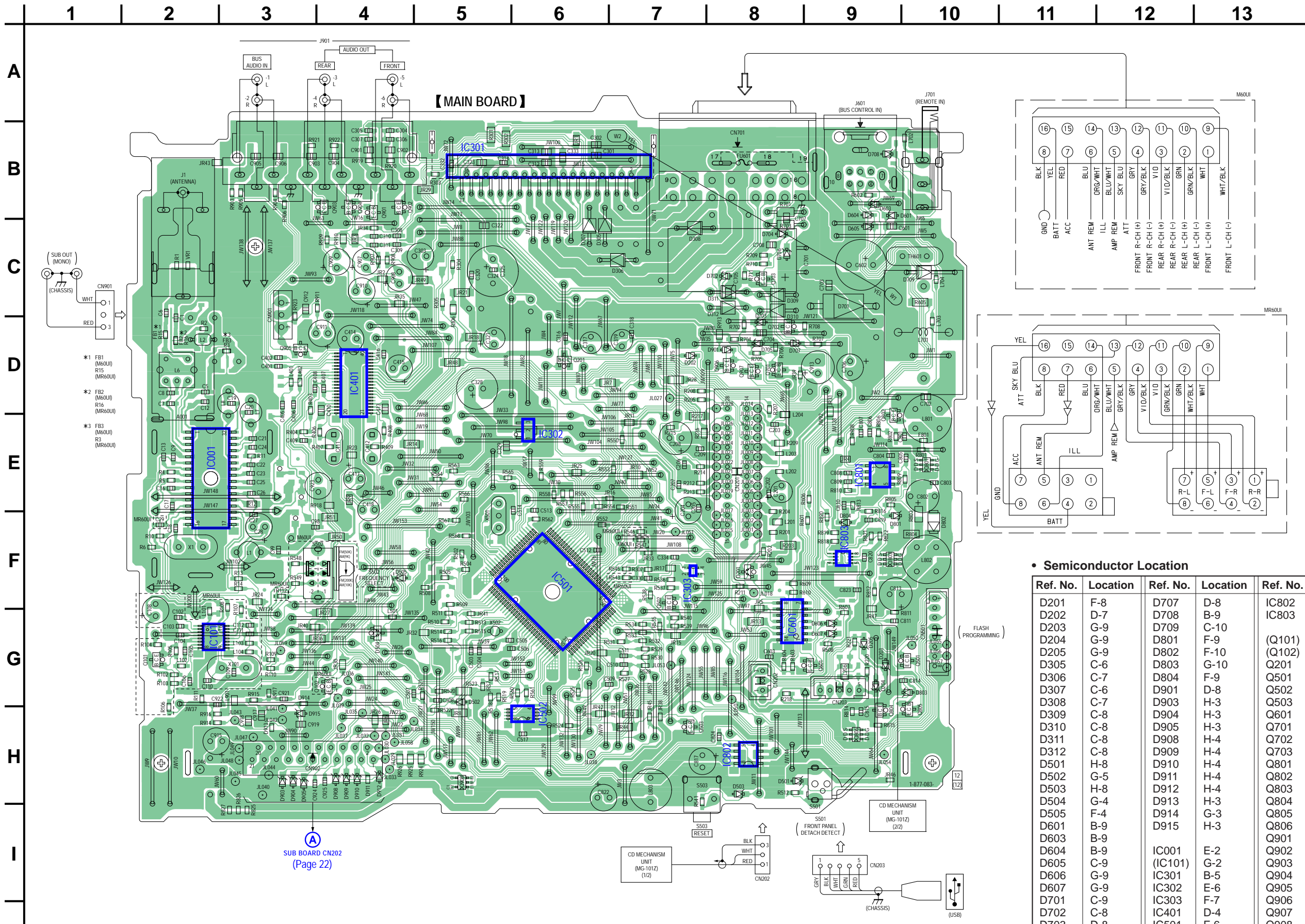
- : B+ Line.
- - -: B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
 (): AM or MW
 < >: CD PLAY
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 \Rightarrow : CD
 \Rightarrow : FM
 \Rightarrow : AM or MW
 \Rightarrow : AUX
 \Rightarrow : USB
 \Rightarrow : BUS AUDIO

• Waveforms

– MAIN Board –



4-3. PRINTED WIRING BOARD – MAIN Section –  : Uses unleaded solder.

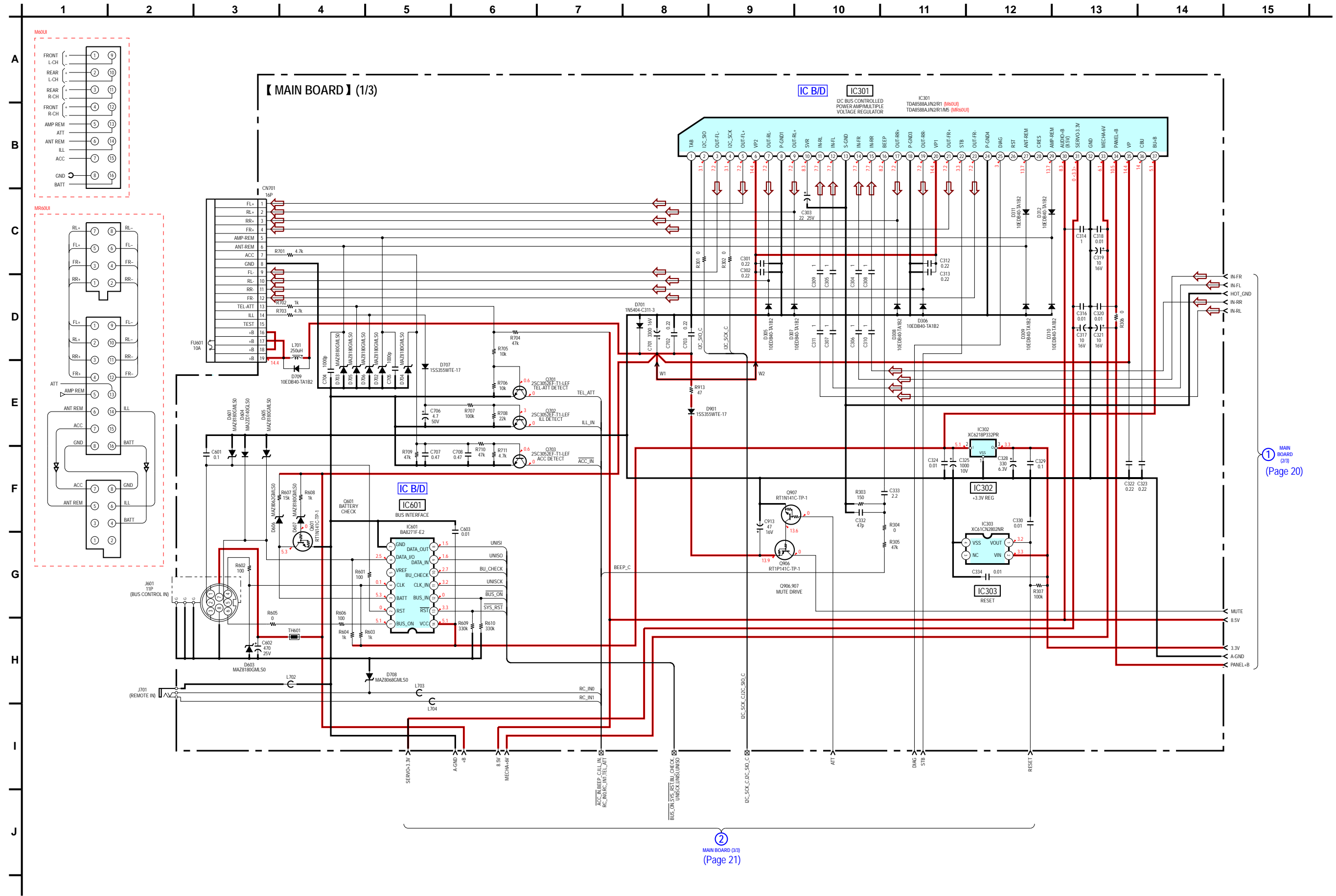


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	F-8	D707	D-8	IC802	H-8
D202	D-7	D708	B-9	IC803	F-9
D203	G-9	D709	C-10	(Q101)	G-2
D204	G-9	D801	F-9	(Q102)	G-4
D205	G-9	D802	F-10	Q201	D-6
D305	C-6	D803	G-10	Q501	G-10
D306	C-7	D804	F-9	Q502	F-7
D307	C-6	D901	D-8	Q503	H-7
D308	C-7	D903	H-3	Q601	G-9
D309	C-8	D904	H-3	Q701	D-8
D310	C-8	D905	H-3	Q702	D-8
D311	C-8	D908	H-4	Q703	C-8
D312	C-8	D909	H-4	Q801	E-10
D501	H-8	D910	H-4	Q802	E-9
D502	G-5	D911	H-4	Q803	F-9
D503	H-8	D912	H-4	Q804	H-9
D504	G-4	D913	H-3	Q805	H-10
D505	F-4	D914	G-3	Q806	H-9
D601	B-9	D915	H-3	Q901	B-4
D603	B-9			Q902	B-4
D604	B-9	IC001	E-2	Q903	B-4
D605	C-9	(IC101)	G-2	Q904	B-4
D606	G-9	IC301	B-5	Q905	D-3
D607	G-9	IC302	E-6	Q906	D-8
D701	C-9	IC303	F-7	Q907	D-8
D702	C-8	IC401	D-4	Q908	H-5
D703	D-8	IC501	F-6		
D704	C-8	IC502	H-6		
D705	D-8	IC601	G-8	VR1	C-2
D706	C-8	IC801	E-9		

(): CDX-MR60UI only

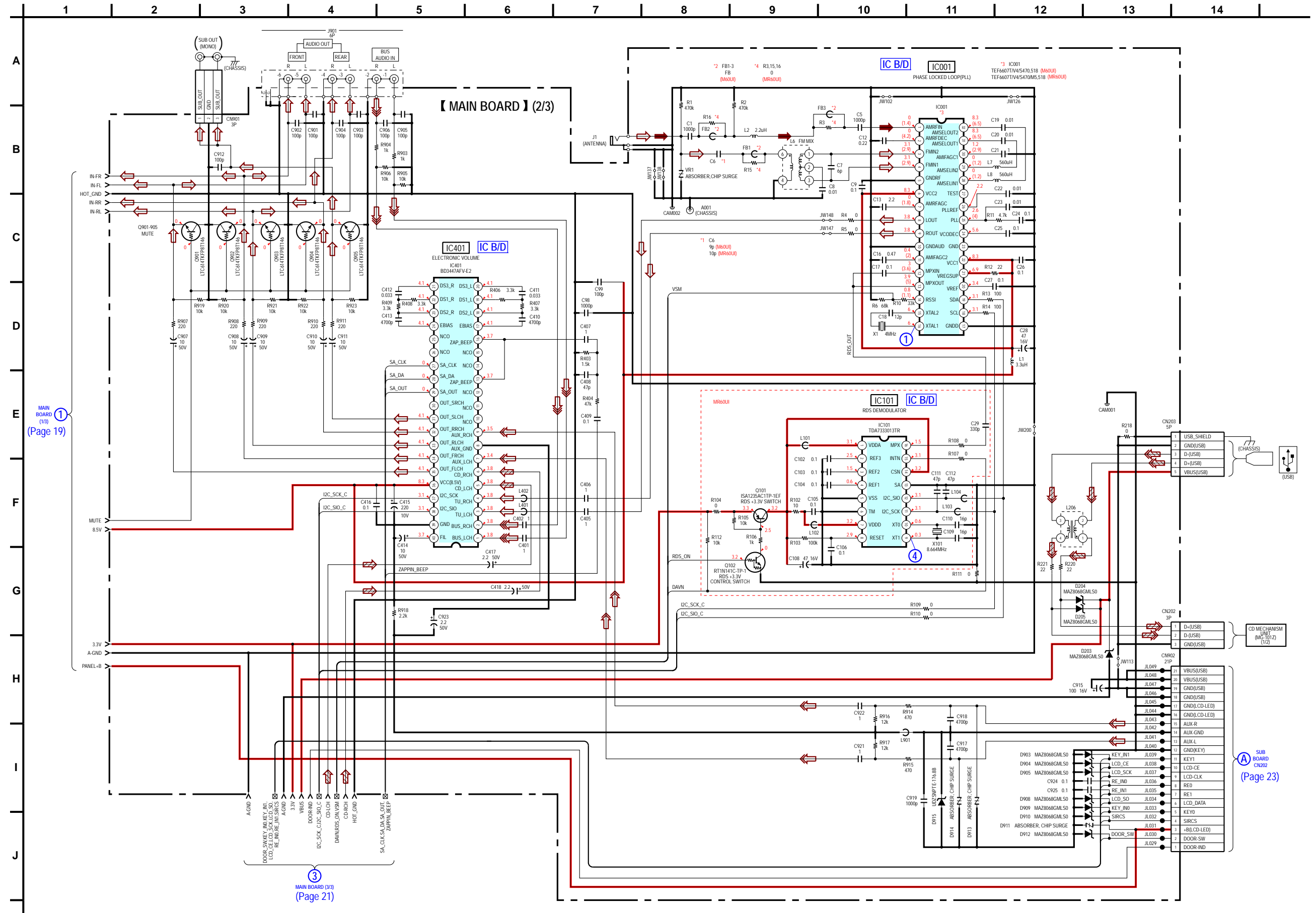
4-4. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • See page 26 for IC Block Diagrams.



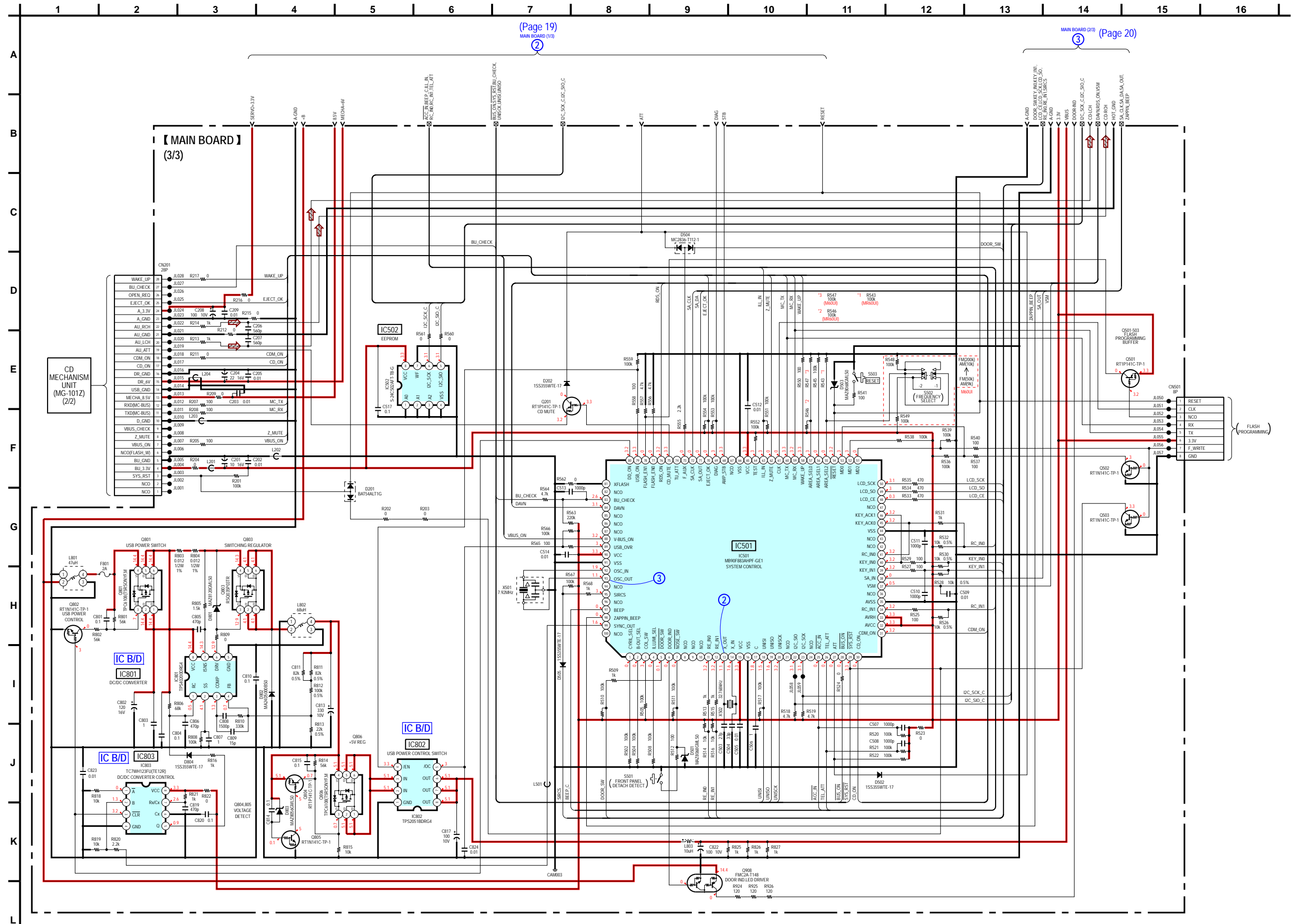
① MAIN BOARD (2/3)
(Page 20)

② MAIN BOARD (3/3)
(Page 21)

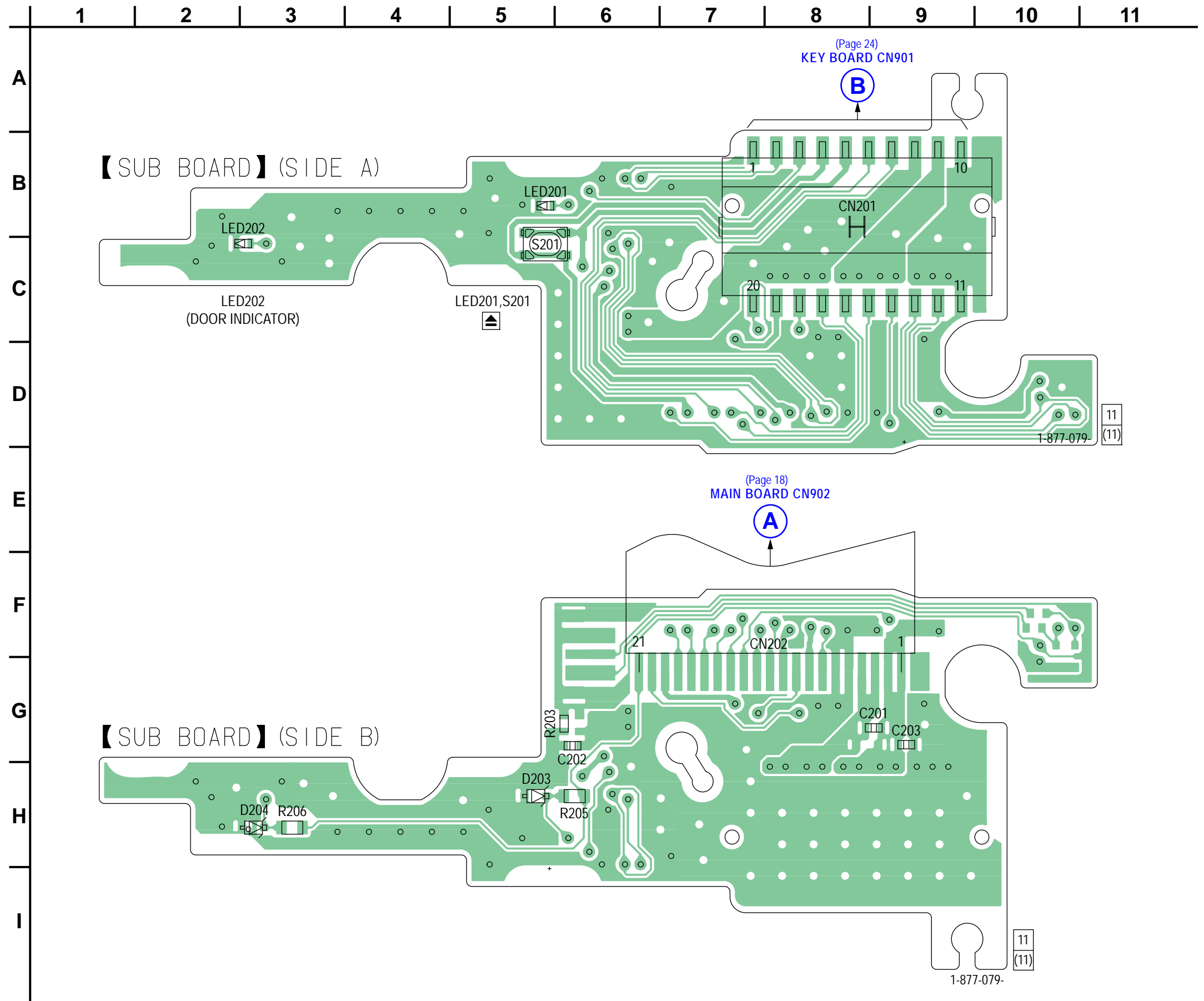
4-5. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 17 for Waveforms. • See page 26 for IC Block Diagrams.



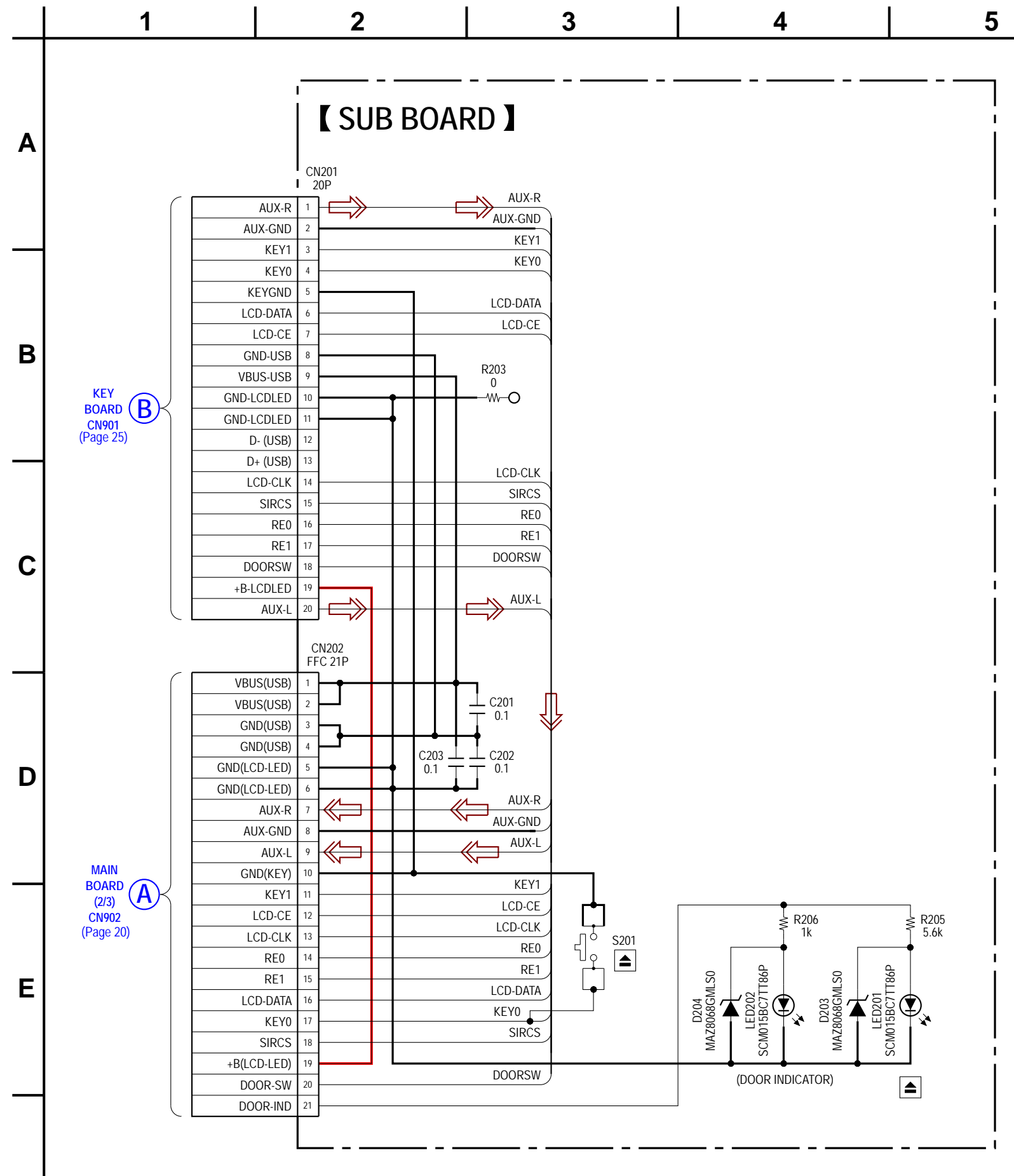
4-6. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 17 for Waveforms. • See page 28 for IC Block Diagrams. • See page 29 for IC Pin Function Description.



4-7. PRINTED WIRING BOARD – SUB Section –  : Uses unleaded solder.



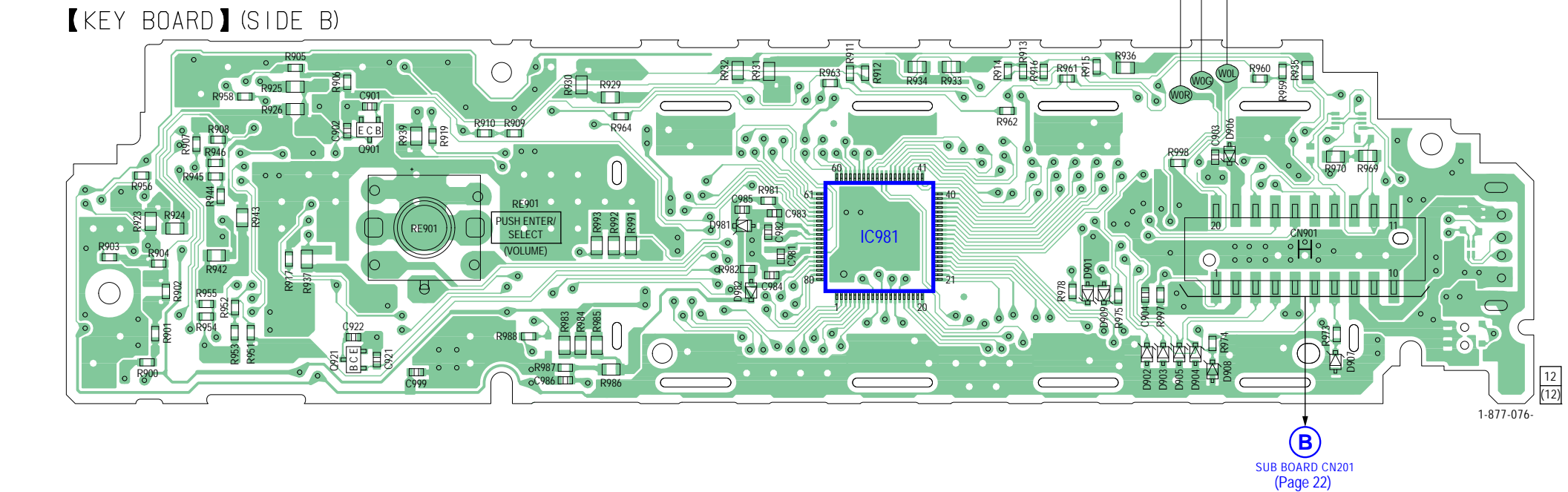
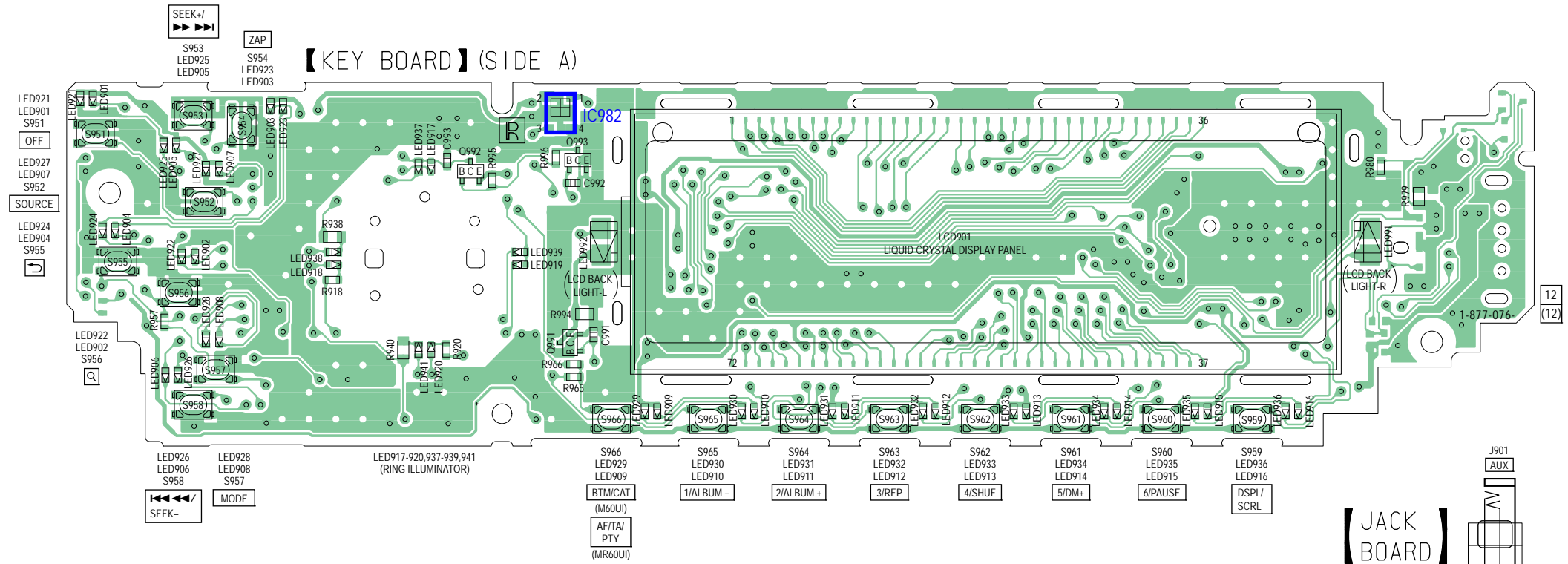
4-8. SCHEMATIC DIAGRAM – SUB Section –



4-9. PRINTED WIRING BOARDS – KEY Section –  : Uses unleaded solder.

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

A
B
C
D
E
F
G
H
I

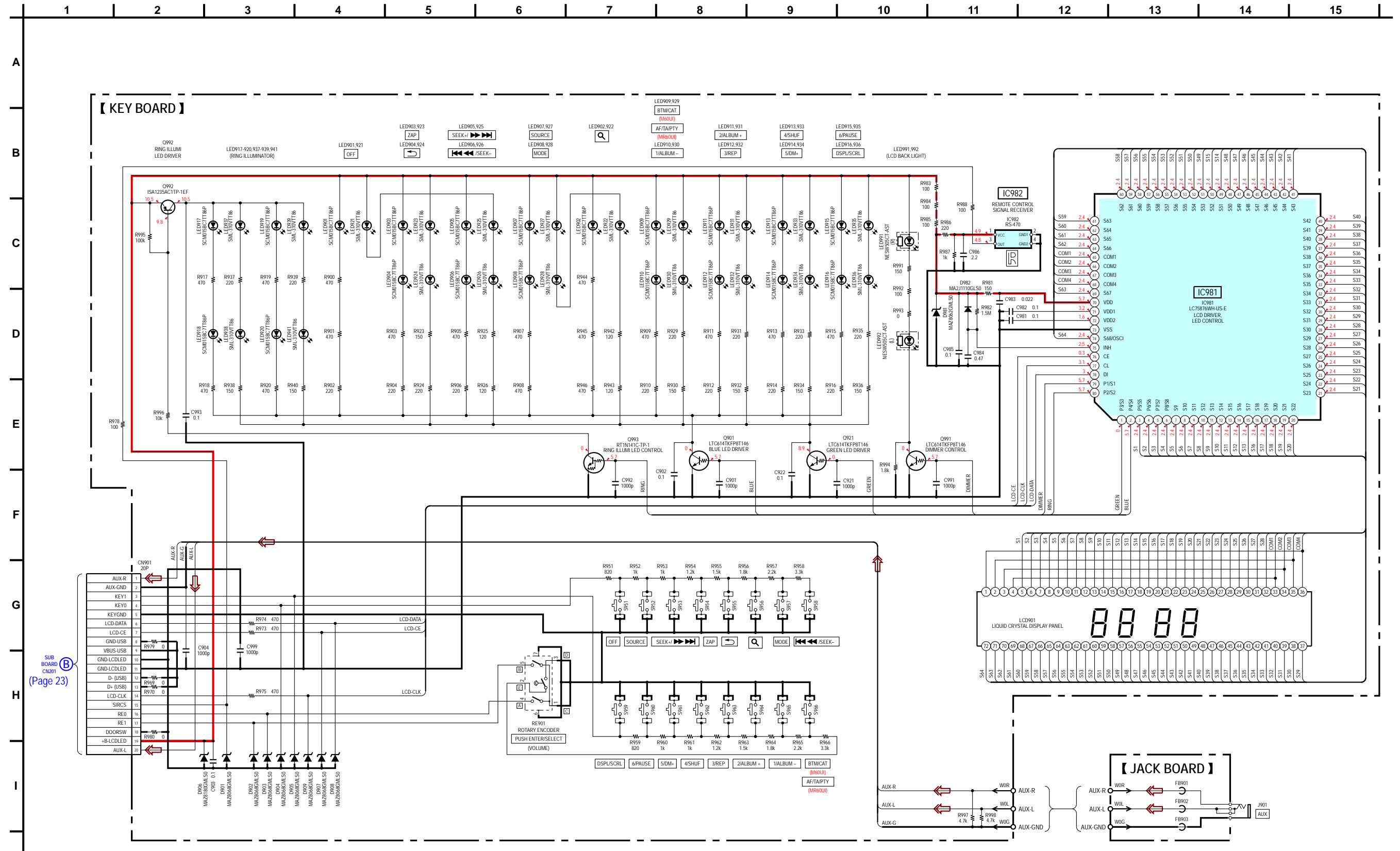


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
(D901)	H-9	LED918	C-4
(D902)	I-9	LED919	C-5
(D903)	I-10	LED920	D-4
(D904)	I-10	LED921	B-2
(D905)	I-10	LED922	C-3
(D906)	G-10	LED923	B-3
(D907)	H-11	LED924	C-2
(D908)	I-10	LED925	B-2
(D909)	H-9	LED926	D-3
(D981)	G-7	LED927	B-3
(D982)	H-7	LED928	C-3
		LED929	D-6
(IC981)	H-8	LED930	D-7
IC982	B-5	LED931	D-7
		LED932	D-8
LED901	B-2	LED933	D-8
LED902	C-3	LED934	D-9
LED903	B-3	LED935	D-10
LED904	C-2	LED936	D-10
LED905	B-3	LED937	B-4
LED906	D-2	LED938	C-4
LED907	B-3	LED939	C-5
LED908	C-3	LED941	D-4
LED909	D-6	LED991	C-11
LED910	D-7	LED992	C-6
LED911	D-7		
LED912	D-8	(Q901)	G-4
LED913	D-9	(Q921)	H-4
LED914	D-9	Q991	C-5
LED915	D-10	Q992	B-5
LED916	D-11	Q993	B-5
LED917	B-4		

(): SIDE B

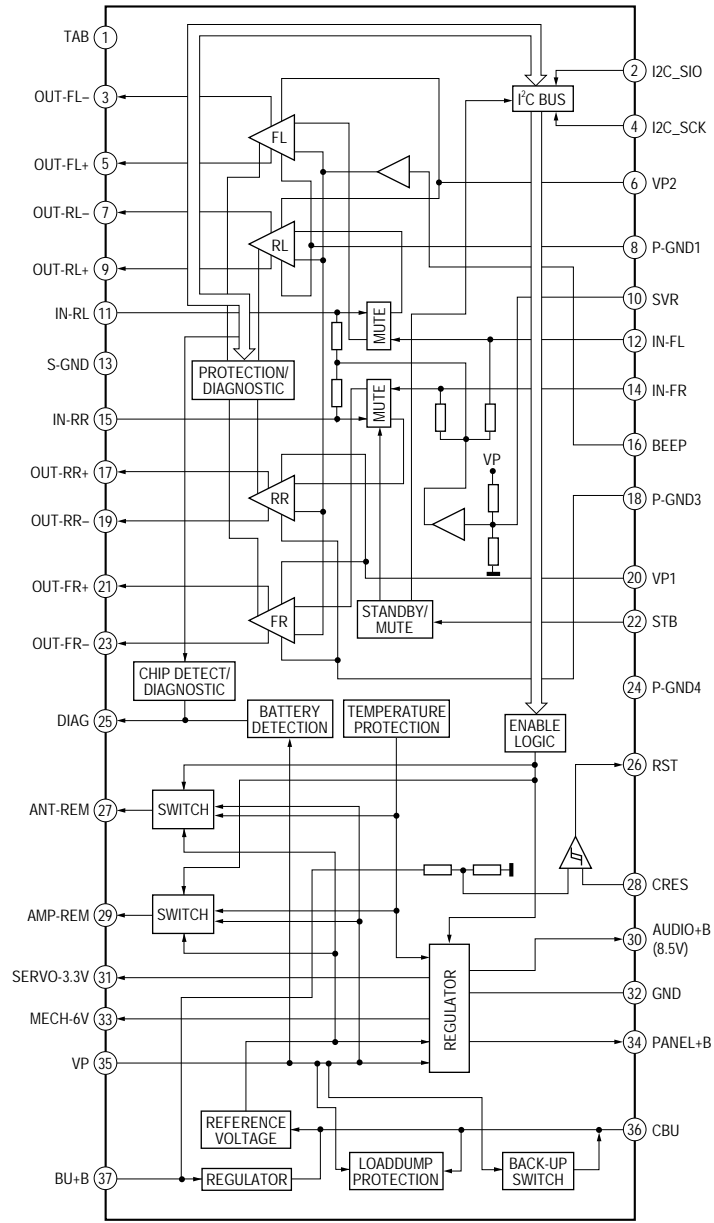
4-10. SCHEMATIC DIAGRAM – KEY Section – • See page 28 for IC Block Diagrams.



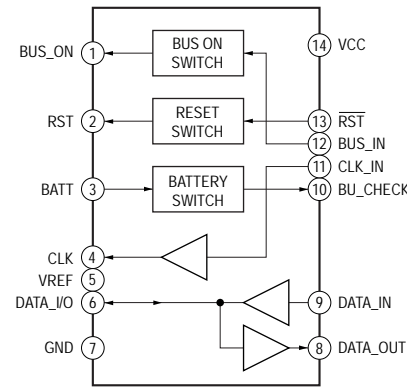
SUB BOARD (B) (Page 23)

• IC Block Diagrams

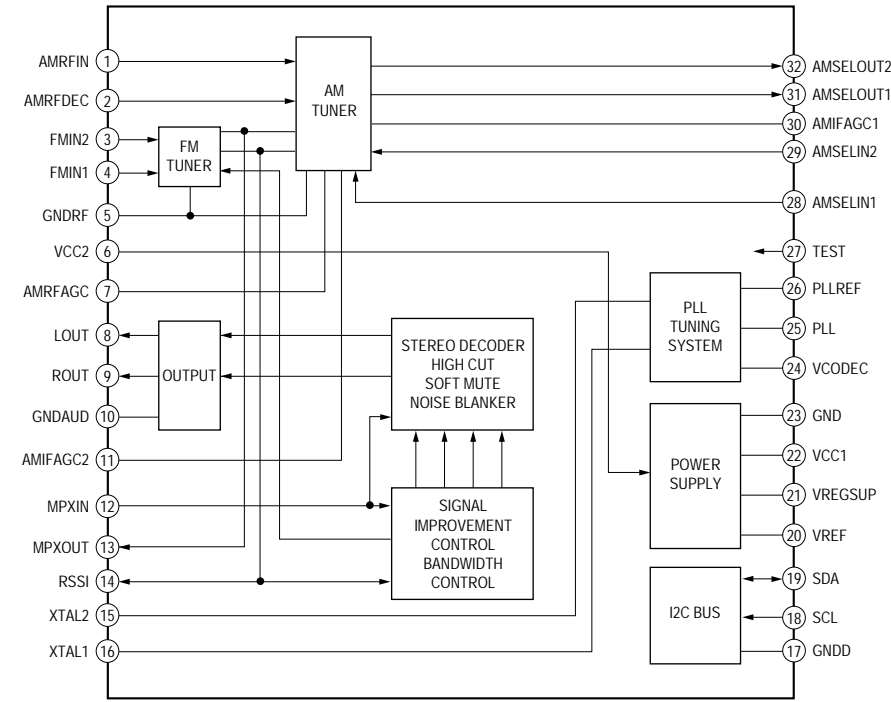
IC301 TDA8588AJ/N2/R1 (CDX-M60UI) (MAIN Board (1/3))
IC301 TDA8588AJ/N2/R1/M5 (CDX-MR60UI) (MAIN Board (1/3))



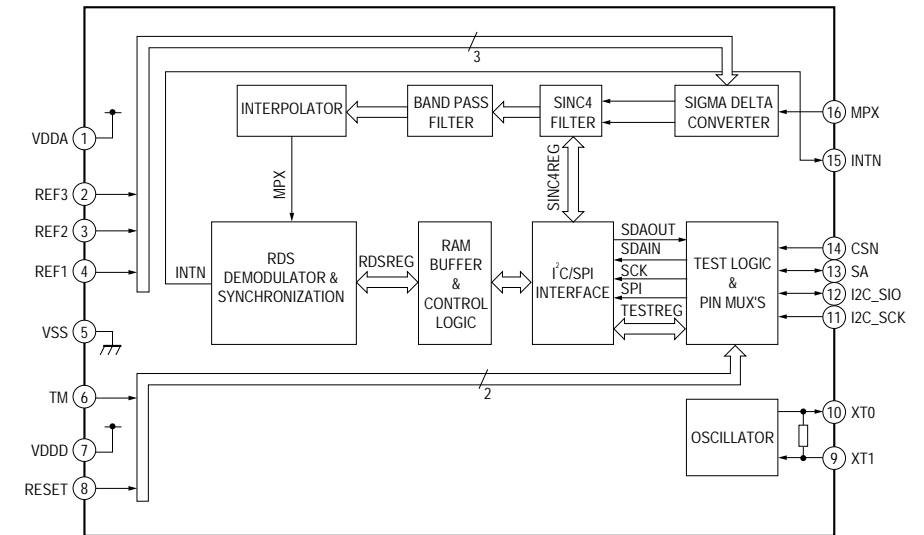
IC601 BA8271F-E2 (MAIN Board (1/3))



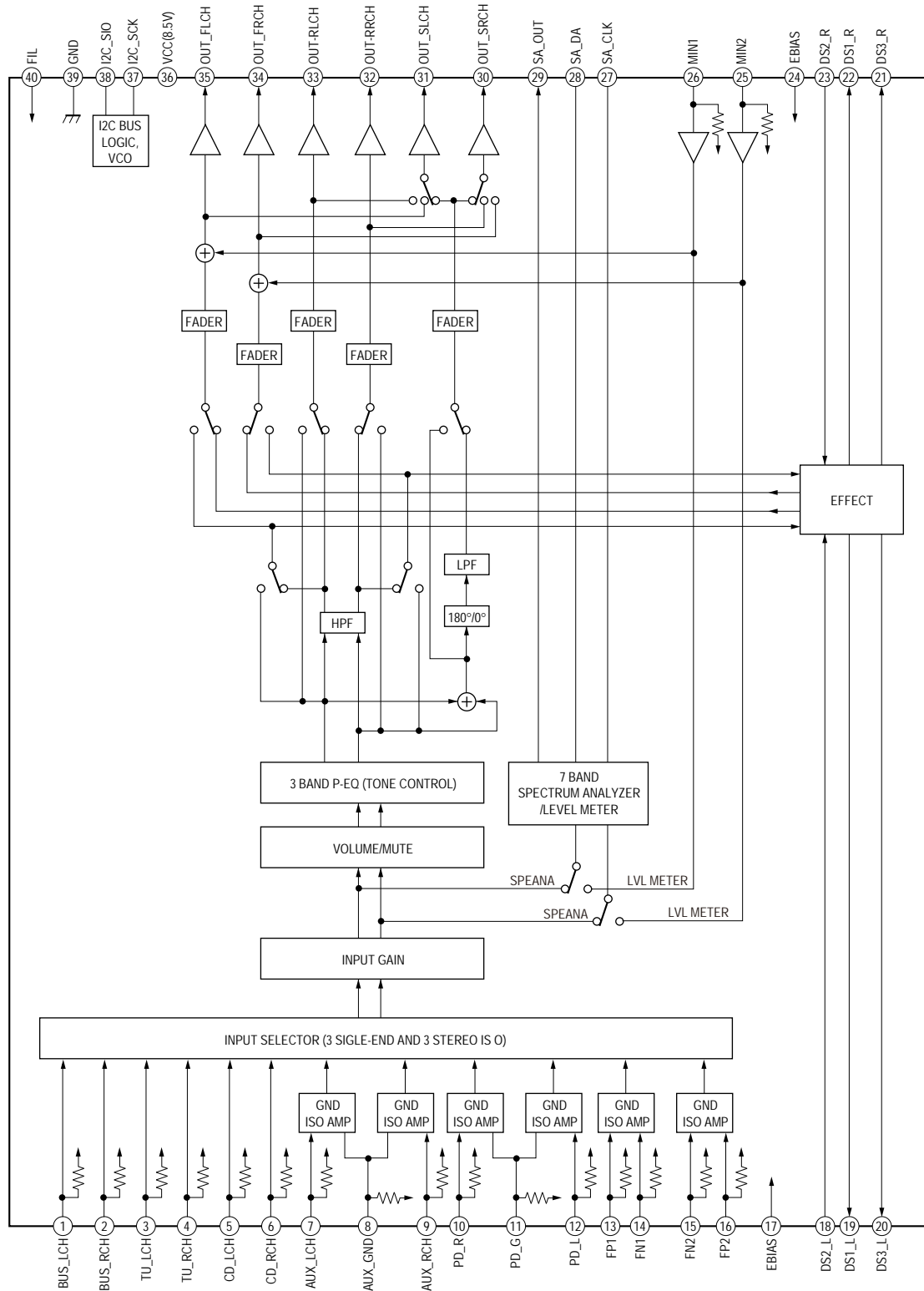
IC001 TEF6607T/V4/S470,518 (CDX-M60UI) (MAIN Board (2/3))
IC001 TEF6607T/V4/S470/M5,518 (CDX-MR60UI) (MAIN Board (2/3))



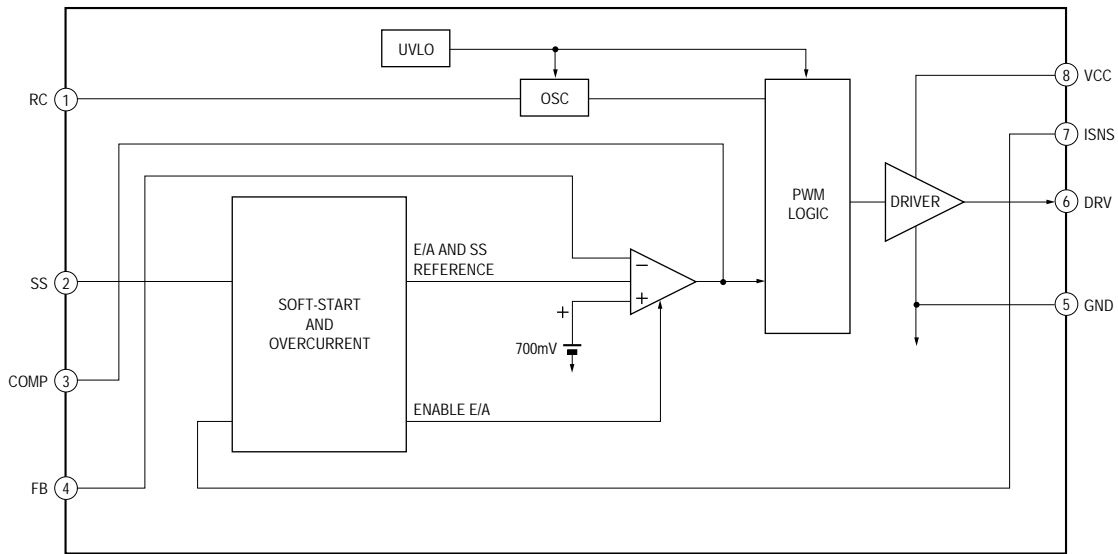
IC101 TDA733013TR (CDX-MR60UI) (MAIN Board (2/3))



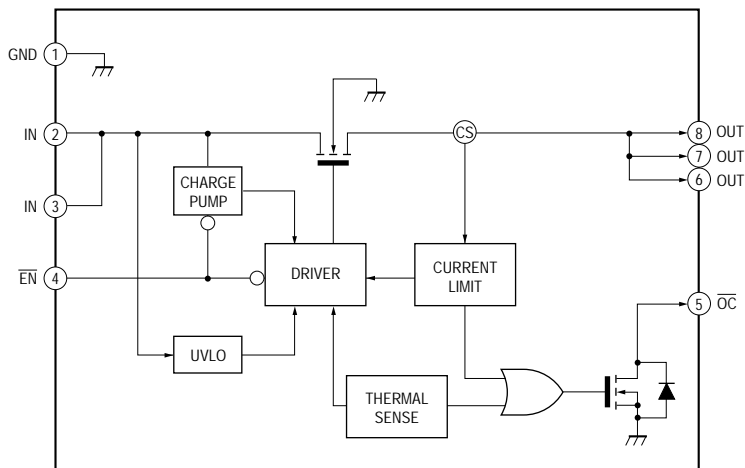
IC401 BD3447AFV-E2 (MAIN Board (2/3))



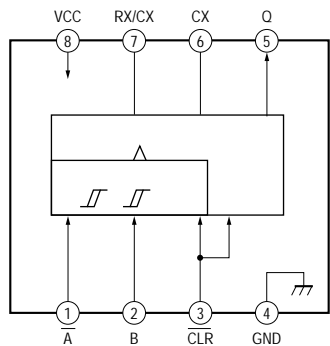
IC801 TPS40200DRG4 (MAIN Board (3/3))



IC802 TPS2051BDRG4 (MAIN Board (3/3))



IC803 TC7WH123FU(TE12R) (MAIN Board (3/3))



• IC Pin Function Description

MAIN BOARD (3/3) IC501 MB90F883AHPF-GE1 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	CYRIL_SEL	I	Cyril select signal input (L: No cyril select)
2	B-OUT_SEL	I	Black out setting signal input (L: No black out)
3	COL_SW	I	Key illumination initial color setting signal input (H: Blue)
4	ILLUMI_SEL	I	Key illumination voltage setting signal input (L: 9 V)
5	DOOR_SW	I	Front panel open detect signal input
6	DOOR_IND	O	Door indicator control signal output
7	NOSE_SW	I	Front panel detach detect signal input
8 to 10	NCO	O	Not used. (Open)
11	RE_IN0	I	Rotary encoder signal input 0
12	RE_IN1	I	Rotary encoder signal input 1
13	X_OUT	O	Low speed operation clock signal output (32.768 kHz)
14	X_IN	I	Low speed operation clock signal input (32.768 kHz)
15	VCC	–	Power supply pin (+3.3 V)
16	VSS	–	Ground
17	C	–	Regulator reference capacitor connecting pin
18	UNISI	I	SONY-BUS data input
19	UNISO	O	SONY-BUS data output
20	UNISCK	O	SONY-BUS clock signal output
21	NCO	O	Not used. (Open)
22	I2C_SIO	I/O	I2C serial data input/output
23	I2C_SCK	O	I2C serial clock signal output
24	NCO	O	Not used. (Open)
25	ACC_IN	I	Accessory power supply detect signal input
26	TEL_ATT	I	Telephone attenuator detect signal input
27	ATT	O	Audio mute control signal output
28	BUS_ON	O	BUS ON signal output
29	SYS_RST	O	System reset signal output
30	CD_ON	I	CD mechanism servo power supply control request signal input
31	CDM_ON	I	CD mechanism deck power supply control request signal input
32	AVCC	–	A/D converter power supply pin (+3.3 V)
33	AVRH	–	A/D converter external reference power supply pin (+3.3 V)
34	RC_IN1	I	Rotary commander shift key signal input 1
35	AVSS	–	Ground for A/D converter
36	NCO	O	Not used. (Open)
37	VSM	I	S meter voltage detect signal input
38	SA_IN	I	Spectrum analyzer DC input
39	KEY_IN1	I	Key signal input 1
40	KEY_IN0	I	Key signal input 0
41	RC_IN0	I	Rotary commander shift key signal input 0
42, 43	NCO	O	Not used. (Open)
44	VSS	–	Ground
45	KEY_ACK0	I	Key acknowledge detect signal input (Rotary commander)
46	KEY_ACK1	I	Key acknowledge detect signal input (Front panel)
47	NCO	O	Not used. (Open)
48	LCD_CE	O	LCD driver chip enable signal output
49	LCD_SO	O	LCD driver serial data output
50	LCD_SCK	O	LCD driver serial clock signal output
51	MOD2	I	Micon operation mode setting signal input (active: L)
52	MOD1	I	Micon operation mode setting signal input
53	MOD0	I	Micon operation mode setting signal input (active: H)
54	RESET	I	Reset signal input
55	AREA_SEL2	I	Destination setting pin 2 (L: CDX-M60UI/MR60UI, H: CDX-M60UI)
56	AREA_SEL1	I	Destination setting pin 1 (Fixed at L)
57	AREA_SEL0	I	Destination setting pin 0 (L: CDX-M60UI, H: CDX-MR60UI)

CDX-M60UI/MR60UI

Pin No.	Pin Name	I/O	Description
58	WAKE_UP	O	CD mechanism deck micon wake up signal output
59	MC_RX	I	MC-BUS communication and CD mechanism deck micon communication RX input
60	MC_TX	O	MC-BUS communication and CD mechanism deck micon communication TX output
61	CLK	O	Flash programming serial clock signal output
62	Z_MUTE	I	Z mute signal input
63	ILL_IN	I	Key illumination signal input
64	TEST	I	Test mode detect signal input
65	VCC	–	Power supply pin (+3.3 V)
66	VSS	–	Ground
67	NCO	O	Not used. (Open)
68	AMP_STB	O	Standby signal output for power regulator IC
69	DIAG	I	Condition signal input from power amp IC
70	EJECT_OK	O	Eject OK signal output
71	SA_OUT	O	Spectrum analyzer serial data output
72	SA_CLK	O	Spectrum analyzer serial clock signal output
73	F_AUX	O	Front AUX mute signal output
74	TU_ATT	O	Not used in this set. (Open)
75	CD_MUTE	O	CD mute signal output
76	RDS_ON	O	RDS IC power supply control signal output (CDX-MR60UI)
77	FLASH_EN0	I	Flash writer programming wake up signal input (Fixed at L)
78	FLASH_EN1	I	Flash writer programming wake up signal input
79	USB_ON	O	USB over current detect IC control signal output
80	DD_ON	O	DC/DC converter power supply ON/OFF control signal output
81	XFLASH	I	Not used in this set. (Fixed at L)
82	NCO	O	Not used. (Open)
83	BU_CHECK	I	Back up power supply detect signal input
84	DAVN	I	RDS data block sync detect signal input (CDX-MR60UI)
85 to 87	NCO	O	Not used. (Open)
88	V-BUS_ON	I	VBUS power supply control signal input (L: VBUS OFF, H: VBUS ON)
89	USB_OVR	I	USB over current detect signal input
90	VCC	–	Power supply pin (+3.3 V)
91	VSS	–	Ground
92	OSC_IN	I	High speed operation clock signal input (7.92 MHz)
93	OSC_OUT	O	High speed operation clock signal output (7.92 MHz)
94	NCO	O	Not used. (Open)
95	SIRCS	I	Remote control signal input
96	NCO	O	Not used. (Open)
97	BEEP	O	Beep signal output for power amplifier IC
98	ZAPPIN_BEEP	O	Zappin beep signal output
99	SYNC_OUT	O	DC/DC converter oscillation frequency control signal output
100	NCO	O	Not used. (Open)

SECTION 5 EXPLODED VIEWS

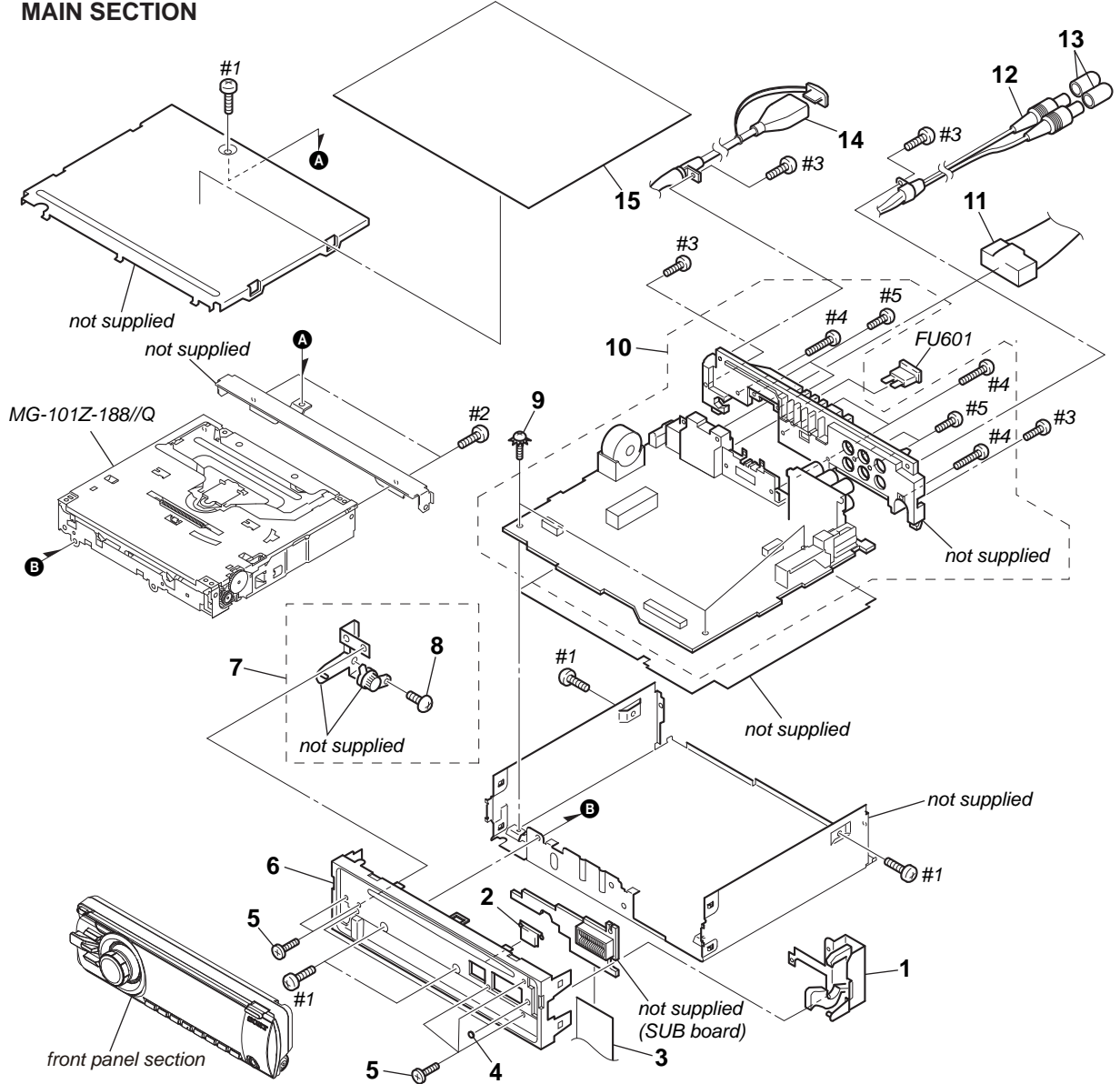
Note:

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

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

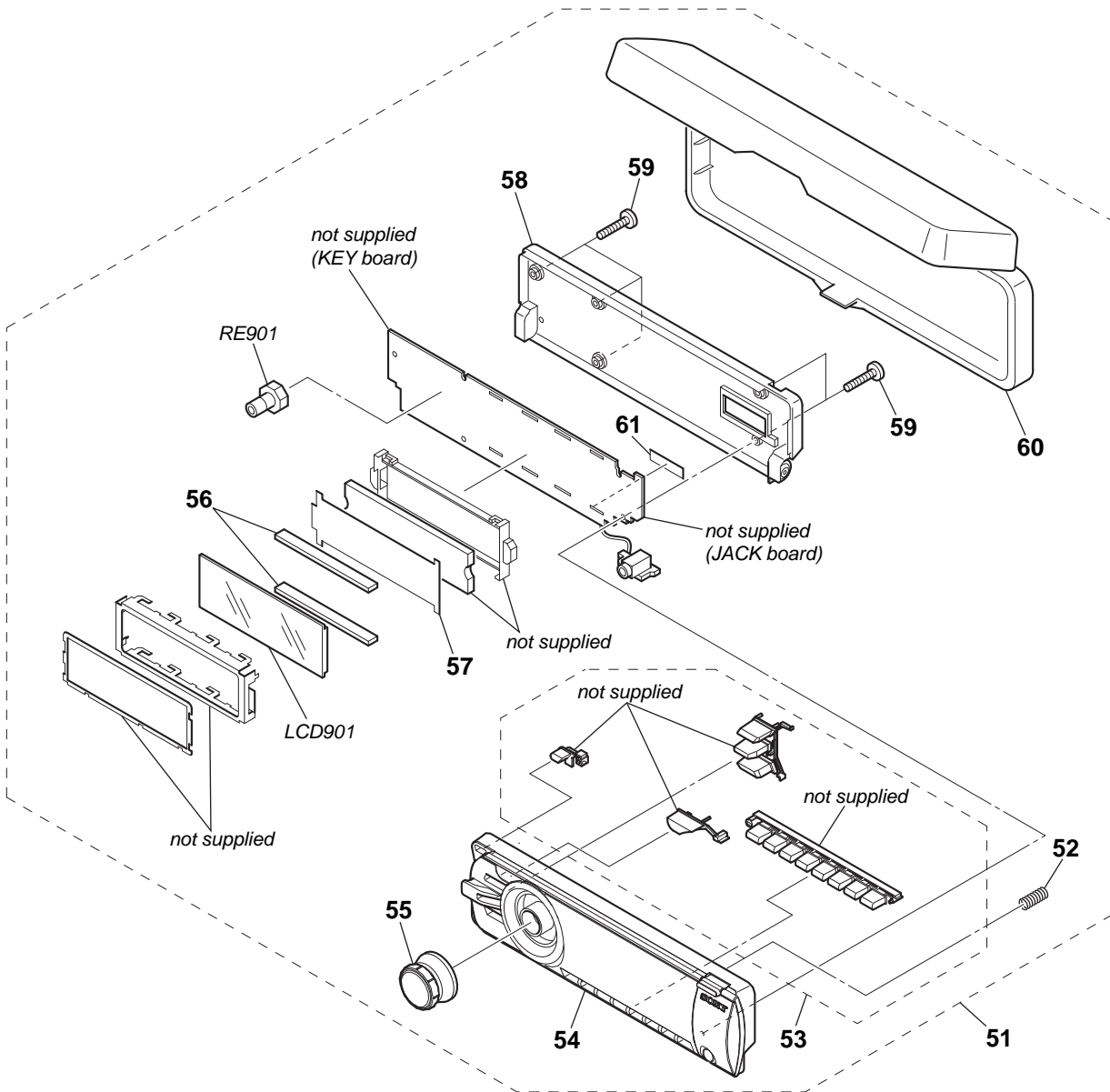
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. MAIN SECTION



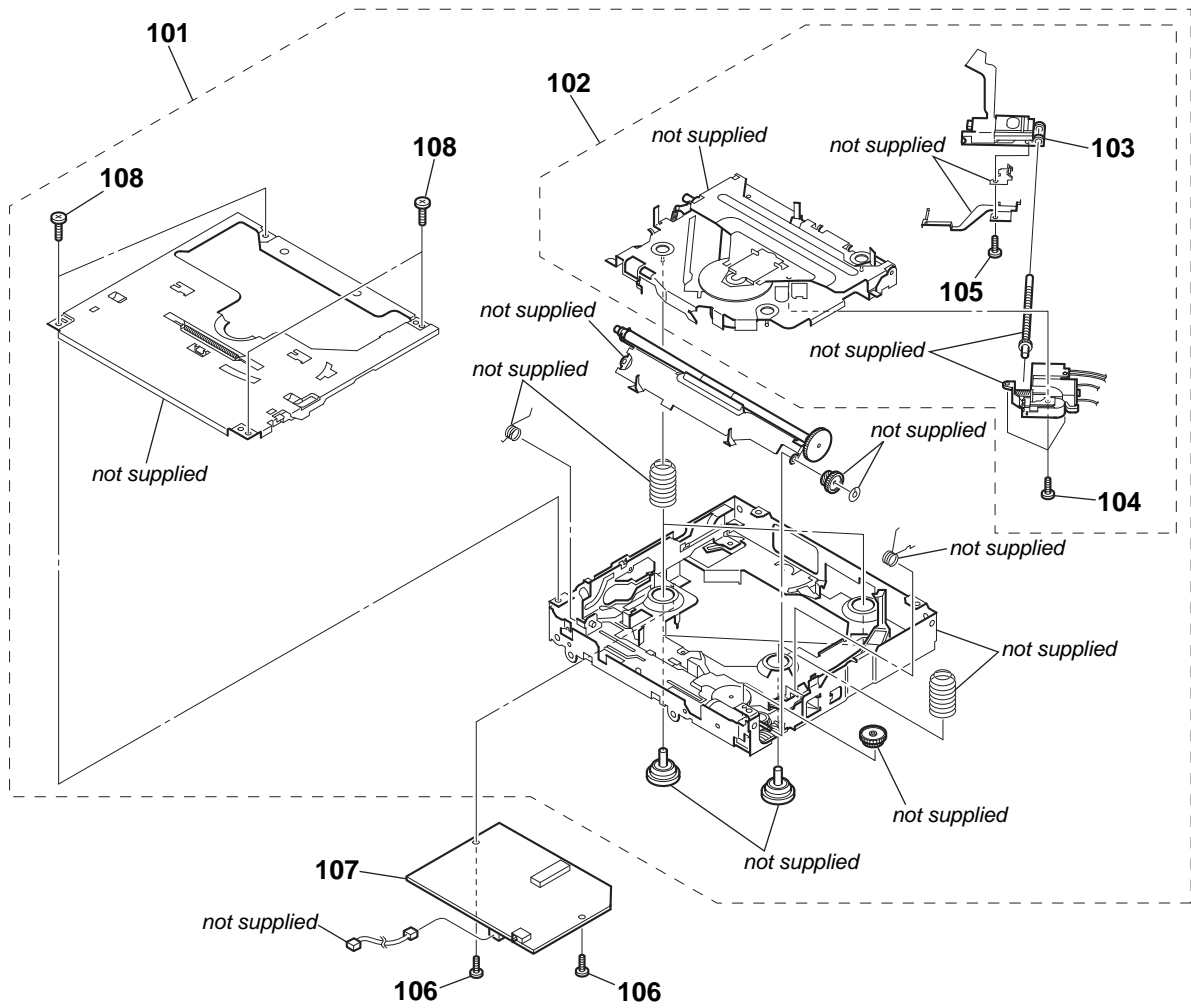
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2176-199-1	LOCK ASSY		11	1-833-972-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (M60UI)	
2	3-246-441-01	BUTTON (EJECT)		12	1-833-887-11	CONNECTION CORD (RCA) (SUB OUT (MONO))	
3	1-835-781-11	CABLE, FLEXIBLE FLAT (21 CORE)		13	3-264-798-01	CAP	
4	3-260-247-01	CUSHION (SUB PANEL)		14	1-836-199-11	CONNECTION CORD FOR AUTOMOBILE (USB)	
5	3-042-244-01	SCREW (T)		15	2-590-307-03	SHEET, COVER	
6	X-2319-346-1	PANEL ASSY, SUB		FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
7	X-3384-203-2	GEAR ASSY		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
8	3-713-786-51	SCREW +P 2X3		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
9	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
10	A-1609-298-A	MAIN BOARD, COMPLETE (M60UI)		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
10	A-1609-320-A	MAIN BOARD, COMPLETE (MR60UI)		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
11	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (MR60UI)					

5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1609-300-A	PANEL OVERALL ASSY, FRONT (M60UI)		57	3-874-328-13	ILLUMINATOR (LCD)	
51	A-1609-322-A	PANEL OVERALL ASSY, FRONT (MR60UI)		58	X-2342-648-1	PANEL (SV) ASSY, BACK	
52	3-264-712-01	SPRING (OPEN)		59	3-250-543-71	SCREW (+B P-TITE M2)	
53	X-2342-646-1	BUTTON ASSY (S) (M60UI)		60	X-2187-544-1	CASE ASSY (for FRONT PANEL)	
53	X-2342-647-1	BUTTON ASSY (S) (MR60UI)		61	3-229-100-01	SHEET (SW), ADHESIVE	
54	X-2342-644-1	PANEL (SV) ASSY, FRONT (M60UI)		LCD901	1-802-847-11	DISPLAY PANEL, LIQUID CRYSTAL	
54	X-2342-645-1	PANEL (SV) ASSY, FRONT (MR60UI)		RE901	1-487-023-11	ENCODER, ROTARY (PUSH ENTER/SELECT (VOLUME))	
55	X-2320-325-1	KNOB ASSY (S)					
56	1-780-433-11	CONDUCTIVE BOARD, CONNECTION					

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY (08)		105	3-686-458-21	SCREW (P1.4), TAPPING	
102	A-1284-705-A	DAXEV08//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1554-409-A	SERVO BOARD, COMPLETE	
104	2-626-869-31	SCREW (M2X3), SERRATION		108	2-134-636-71	SCREW (M1.7X2.5)	

SECTION 6
ELECTRICAL PARTS LIST

JACK KEY

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μF

- COILS
uH: μH
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ, for example:
uA. . . : μA. . . , uPA. . . , μPA. . . ,
uPB. . . : μPB. . . , uPC. . . , μPC. . . ,
uPD. . . : μPD. . .

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

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

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

Ref. No.	Part No.	Description	Remark
		JACK BOARD *****	
		< FERRITE BEAD >	
FB901	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB902	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB903	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< JACK >	
J901	1-821-687-11	JACK, 3.5 SMALL TYPE (AUX)	

		KEY BOARD *****	
	1-780-433-11	CONDUCTIVE BOARD, CONNECTION SHEET (SW), ADHESIVE	
	3-229-100-01		
	3-874-328-13	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C901	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C902	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C904	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C921	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C922	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C981	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C982	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C983	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C984	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
C985	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C986	1-135-834-11	CERAMIC CHIP 2.2uF 6.3V	
C991	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C992	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C993	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C999	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
		< CONNECTOR >	
CN901	1-818-141-11	PLUG, CONNECTOR 20P	
		< DIODE >	
D901	6-501-743-01	DIODE MAZ8068GMLS0	
D902	6-501-743-01	DIODE MAZ8068GMLS0	
D903	6-501-743-01	DIODE MAZ8068GMLS0	
D904	6-501-743-01	DIODE MAZ8068GMLS0	
D905	6-501-743-01	DIODE MAZ8068GMLS0	

Ref. No.	Part No.	Description	Remark
D906	6-501-782-01	DIODE MAZ8180GMLS0	
D907	6-501-743-01	DIODE MAZ8068GMLS0	
D908	6-501-743-01	DIODE MAZ8068GMLS0	
D909	6-501-743-01	DIODE MAZ8068GMLS0	
D981	6-501-738-01	DIODE MAZ8062GMLS0	
D982	6-501-817-01	DIODE MA2J1110GLS0	
		< IC >	
IC981	6-707-064-01	IC LC75876WH-US-E	
IC982	6-600-629-01	IC RS-470 (IR)	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-802-847-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	6-502-542-01	LED SCM015BC7TT86P (OFF)	
LED902	6-502-542-01	LED SCM015BC7TT86P (Q (BROWSE))	
LED903	6-502-542-01	LED SCM015BC7TT86P (ZAP)	
LED904	6-502-542-01	LED SCM015BC7TT86P (S (BACK))	
LED905	6-502-542-01	LED SCM015BC7TT86P (SEEK+ / ▶▶▶▶)	
LED906	6-502-542-01	LED SCM015BC7TT86P (◀◀◀◀ / SEEK-)	
LED907	6-502-542-01	LED SCM015BC7TT86P (SOURCE)	
LED908	6-502-542-01	LED SCM015BC7TT86P (MODE)	
LED909	6-502-542-01	LED SCM015BC7TT86P (BTM/CAT) (M60UI)	
LED909	6-502-542-01	LED SCM015BC7TT86P (AF/TA/PTY) (MR60UI)	
LED910	6-502-542-01	LED SCM015BC7TT86P (1/ALBUM -)	
LED911	6-502-542-01	LED SCM015BC7TT86P (2/ALBUM +)	
LED912	6-502-542-01	LED SCM015BC7TT86P (3/REP)	
LED913	6-502-542-01	LED SCM015BC7TT86P (4/SHUF)	
LED914	6-502-542-01	LED SCM015BC7TT86P (5/DM+)	
LED915	6-502-542-01	LED SCM015BC7TT86P (6/PAUSE)	
LED916	6-502-542-01	LED SCM015BC7TT86P (DSPL/SCRL)	
LED917	6-502-542-01	LED SCM015BC7TT86P (RING ILLUMINATOR)	
LED918	6-502-542-01	LED SCM015BC7TT86P (RING ILLUMINATOR)	
LED919	6-502-542-01	LED SCM015BC7TT86P (RING ILLUMINATOR)	
LED920	6-502-542-01	LED SCM015BC7TT86P (RING ILLUMINATOR)	
LED921	8-719-053-09	LED SML-310VTT86 (OFF)	
LED922	8-719-053-09	LED SML-310VTT86 (Q (BROWSE))	
LED923	8-719-053-09	LED SML-310VTT86 (ZAP)	
LED924	8-719-053-09	LED SML-310VTT86 (S (BACK))	
LED925	8-719-053-09	LED SML-310VTT86 (SEEK+ / ▶▶▶▶)	
LED926	8-719-053-09	LED SML-310VTT86 (◀◀◀◀ / SEEK-)	
LED927	8-719-053-09	LED SML-310VTT86 (SOURCE)	
LED928	8-719-053-09	LED SML-310VTT86 (MODE)	
LED929	8-719-053-09	LED SML-310VTT86 (BTM/CAT) (M60UI)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LED929	8-719-053-09	LED SML-310VTT86 (AF/TAPTY) (MR60UI)		R943	1-216-027-00	METAL CHIP 120	5% 1/10W
LED930	8-719-053-09	LED SML-310VTT86 (1/ALBUM -)		R944	1-216-817-11	METAL CHIP 470	5% 1/10W
LED931	8-719-053-09	LED SML-310VTT86 (2/ALBUM +)		R945	1-216-817-11	METAL CHIP 470	5% 1/10W
LED932	8-719-053-09	LED SML-310VTT86 (3/REP)		R946	1-216-817-11	METAL CHIP 470	5% 1/10W
LED933	8-719-053-09	LED SML-310VTT86 (4/SHUF)		R951	1-216-820-11	METAL CHIP 820	5% 1/10W
LED934	8-719-053-09	LED SML-310VTT86 (5/DM+)		R952	1-216-821-11	METAL CHIP 1K	5% 1/10W
LED935	8-719-053-09	LED SML-310VTT86 (6/PAUSE)		R953	1-216-821-11	METAL CHIP 1K	5% 1/10W
LED936	8-719-053-09	LED SML-310VTT86 (DSPL/SCRL)		R954	1-216-822-11	METAL CHIP 1.2K	5% 1/10W
LED937	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATOR)		R955	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
LED938	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATOR)		R956	1-216-824-11	METAL CHIP 1.8K	5% 1/10W
LED939	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATOR)		R957	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
LED941	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATOR)		R958	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
LED991	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT-R)		R959	1-216-820-11	METAL CHIP 820	5% 1/10W
LED992	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT-L)		R960	1-216-821-11	METAL CHIP 1K	5% 1/10W
		< TRANSISTOR >		R961	1-216-821-11	METAL CHIP 1K	5% 1/10W
Q901	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R962	1-216-822-11	METAL CHIP 1.2K	5% 1/10W
Q921	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R963	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
Q991	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R964	1-216-824-11	METAL CHIP 1.8K	5% 1/10W
Q992	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF		R965	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
Q993	8-729-027-43	TRANSISTOR DTC114EKA-T146		R966	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
		< RESISTOR >		R969	1-216-295-11	SHORT CHIP 0	
R900	1-216-817-11	METAL CHIP 470	5% 1/10W	R970	1-216-295-11	SHORT CHIP 0	
R901	1-216-817-11	METAL CHIP 470	5% 1/10W	R973	1-216-817-11	METAL CHIP 470	5% 1/10W
R902	1-216-813-11	METAL CHIP 220	5% 1/10W	R974	1-216-817-11	METAL CHIP 470	5% 1/10W
R903	1-216-817-11	METAL CHIP 470	5% 1/10W	R975	1-216-817-11	METAL CHIP 470	5% 1/10W
R904	1-216-813-11	METAL CHIP 220	5% 1/10W	R978	1-216-809-11	METAL CHIP 100	5% 1/10W
R905	1-216-817-11	METAL CHIP 470	5% 1/10W	R979	1-216-295-11	SHORT CHIP 0	
R906	1-216-813-11	METAL CHIP 220	5% 1/10W	R980	1-216-864-11	SHORT CHIP 0	
R907	1-216-817-11	METAL CHIP 470	5% 1/10W	R981	1-216-811-11	METAL CHIP 150	5% 1/10W
R908	1-216-817-11	METAL CHIP 470	5% 1/10W	R982	1-216-859-11	METAL CHIP 1.5M	5% 1/10W
R909	1-216-817-11	METAL CHIP 470	5% 1/10W	R983	1-216-025-11	METAL CHIP 100	5% 1/10W
R910	1-216-813-11	METAL CHIP 220	5% 1/10W	R984	1-216-025-11	METAL CHIP 100	5% 1/10W
R911	1-216-817-11	METAL CHIP 470	5% 1/10W	R985	1-216-025-11	METAL CHIP 100	5% 1/10W
R912	1-216-813-11	METAL CHIP 220	5% 1/10W	R986	1-216-033-00	METAL CHIP 220	5% 1/10W
R913	1-216-817-11	METAL CHIP 470	5% 1/10W	R987	1-216-821-11	METAL CHIP 1K	5% 1/10W
R914	1-216-813-11	METAL CHIP 220	5% 1/10W	R988	1-216-809-11	METAL CHIP 100	5% 1/10W
R915	1-216-817-11	METAL CHIP 470	5% 1/10W	R991	1-216-029-00	METAL CHIP 150	5% 1/10W
R916	1-216-813-11	METAL CHIP 220	5% 1/10W	R992	1-216-025-11	METAL CHIP 100	5% 1/10W
R917	1-216-817-11	METAL CHIP 470	5% 1/10W	R993	1-216-295-11	SHORT CHIP 0	
R918	1-216-817-11	METAL CHIP 470	5% 1/10W	R994	1-216-055-00	METAL CHIP 1.8K	5% 1/10W
R919	1-216-817-11	METAL CHIP 470	5% 1/10W	R995	1-216-845-11	METAL CHIP 100K	5% 1/10W
R920	1-216-817-11	METAL CHIP 470	5% 1/10W	R996	1-216-833-11	METAL CHIP 10K	5% 1/10W
R923	1-216-029-00	METAL CHIP 150	5% 1/10W	R997	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R924	1-216-033-00	METAL CHIP 220	5% 1/10W	R998	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R925	1-216-027-00	METAL CHIP 120	5% 1/10W			< ROTARY ENCODER >	
R926	1-216-027-00	METAL CHIP 120	5% 1/10W	RE901	1-487-023-11	ENCODER, ROTARY (PUSH ENTER/SELECT (VOLUME))	
R929	1-216-033-00	METAL CHIP 220	5% 1/10W			< SWITCH >	
R930	1-216-029-00	METAL CHIP 150	5% 1/10W	S951	1-786-653-21	SWITCH, TACTILE (OFF)	
R931	1-216-033-00	METAL CHIP 220	5% 1/10W	S952	1-786-653-21	SWITCH, TACTILE (SOURCE)	
R932	1-216-029-00	METAL CHIP 150	5% 1/10W	S953	1-786-653-21	SWITCH, TACTILE (SEEK+/▶▶▶▶)	
R933	1-216-033-00	METAL CHIP 220	5% 1/10W	S954	1-786-653-21	SWITCH, TACTILE (ZAP)	
R934	1-216-029-00	METAL CHIP 150	5% 1/10W	S955	1-786-653-21	SWITCH, TACTILE (◀ (BACK))	
R935	1-216-033-00	METAL CHIP 220	5% 1/10W	S956	1-786-653-21	SWITCH, TACTILE (Q (BROWSE))	
R936	1-216-029-00	METAL CHIP 150	5% 1/10W	S957	1-786-653-21	SWITCH, TACTILE (MODE)	
R937	1-216-033-00	METAL CHIP 220	5% 1/10W	S958	1-786-653-21	SWITCH, TACTILE (◀◀◀◀/SEEK-)	
R938	1-216-029-00	METAL CHIP 150	5% 1/10W	S959	1-786-653-21	SWITCH, TACTILE (DSPL/SCRL)	
R939	1-216-033-00	METAL CHIP 220	5% 1/10W	S960	1-786-653-21	SWITCH, TACTILE (6/PAUSE)	
R940	1-216-029-00	METAL CHIP 150	5% 1/10W				
R942	1-216-027-00	METAL CHIP 120	5% 1/10W				

CDX-M60UI/MR60UI

KEY **MAIN**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
S961	1-786-653-21	SWITCH, TACTILE (5/DM+)		C112	1-162-923-11	CERAMIC CHIP 47PF 5%	50V (MR60UI)
S962	1-786-653-21	SWITCH, TACTILE (4/SHUF)		C201	1-124-233-11	ELECT 10uF 20%	16V
S963	1-786-653-21	SWITCH, TACTILE (3/REP)		C202	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
S964	1-786-653-21	SWITCH, TACTILE (2/ALBUM +)		C203	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
S965	1-786-653-21	SWITCH, TACTILE (1/ALBUM -)		C204	1-124-234-00	ELECT 22uF 20%	16V
S966	1-786-653-21	SWITCH, TACTILE (BTM/CAT) (M60UI)		C205	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
S966	1-786-653-21	SWITCH, TACTILE (AF/TA/PTY) (MR60UI)		C206	1-164-739-11	CERAMIC CHIP 560PF 5%	50V

A-1609-298-A	MAIN BOARD, COMPLETE (M60UI)			C207	1-164-739-11	CERAMIC CHIP 560PF 5%	50V
A-1609-320-A	MAIN BOARD, COMPLETE (MR60UI)			C208	1-124-584-00	ELECT 100uF 20%	10V

7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			C209	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
7-685-794-09	SCREW +PTT 2.6X10 (S)			C301	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
	< CAPACITOR >			C302	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C1	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C303	1-128-551-11	ELECT 22uF 20%	63V
C5	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C304	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C6	1-162-914-11	CERAMIC CHIP 9PF 0.5PF	50V (M60UI)	C305	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C6	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V (MR60UI)	C306	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C7	1-162-911-11	CERAMIC CHIP 6PF 0.5PF	50V	C307	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C8	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C308	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C9	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C309	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C12	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C310	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C13	1-100-742-11	CERAMIC CHIP 2.2uF 20%	10V	C311	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C16	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V	C312	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C17	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C313	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C18	1-162-916-11	CERAMIC CHIP 12PF 5%	50V	C314	1-100-352-11	CERAMIC CHIP 1uF 20%	16V
C19	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C316	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C20	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C317	1-124-233-11	ELECT 10uF 20%	16V
C21	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C318	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C22	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C319	1-124-233-11	ELECT 10uF 20%	16V
C23	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C320	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C24	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C321	1-124-233-11	ELECT 10uF 20%	16V
C25	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C322	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C26	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C323	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C27	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C324	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C28	1-126-947-11	ELECT 47uF 20%	35V	C325	1-126-926-11	ELECT 1000uF 20%	10V
C29	1-162-959-11	CERAMIC CHIP 330PF 5%	50V (MR60UI)	C328	1-128-057-11	ELECT 330uF 20%	6.3V
C98	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C329	1-107-725-11	CERAMIC CHIP 0.1uF 10%	16V
C99	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	C330	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C102	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (MR60UI)	C332	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C103	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (MR60UI)	C333	1-125-889-11	CERAMIC CHIP 2.2uF 10%	10V
C104	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (MR60UI)	C334	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C105	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (MR60UI)	C401	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C106	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (MR60UI)	C402	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C108	1-126-947-11	ELECT 47uF 20%	35V (MR60UI)	C405	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C109	1-164-237-11	CERAMIC CHIP 16PF 5%	50V (MR60UI)	C406	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C110	1-164-237-11	CERAMIC CHIP 16PF 5%	50V (MR60UI)	C407	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C111	1-162-923-11	CERAMIC CHIP 47PF 5%	50V (MR60UI)	C408	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
				C409	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C410	1-137-712-11	CERAMIC CHIP 0.0047uF 20%	250V
				C411	1-136-159-00	FILM 0.033uF 5%	50V
				C412	1-136-159-00	FILM 0.033uF 5%	50V
				C413	1-137-712-11	CERAMIC CHIP 0.0047uF 20%	250V
				C414	1-126-964-11	ELECT 10uF 20%	50V
				C415	1-126-934-11	ELECT 220uF 20%	16V
				C416	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
				C417	1-124-257-00	ELECT 2.2uF 20%	50V
				C418	1-124-257-00	ELECT 2.2uF 20%	50V
				C503	1-162-920-11	CERAMIC CHIP 27PF 5%	50V
				C504	1-162-921-11	CERAMIC CHIP 33PF 5%	50V
				C505	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C506	1-100-352-11	CERAMIC CHIP 1uF 20%	16V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C507	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C924	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C925	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C510	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< CONNECTOR >			
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C512	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN201	1-820-611-11	CONNECTOR, BOARD TO BOARD	28P		
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	CN202	1-564-705-11	PIN, CONNECTOR (SMALL TYPE)	3P		
C514	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN203	1-564-707-11	PIN, CONNECTOR (SMALL TYPE)	5P		
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	* CN501	1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P		
C601	1-165-319-11	CERAMIC CHIP	0.1uF		50V	CN701	1-774-701-21	PIN, CONNECTOR	16P		
C602	1-126-941-11	ELECT	470uF	20%	25V	* CN901	1-564-506-11	PLUG, CONNECTOR	3P		
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN902	1-770-528-31	CONNECTOR, FFC/FPC	21P		
C701	1-112-302-11	ELECT	3300uF	20%	16V			< DIODE >			
C702	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V						
C703	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	D201	6-501-013-01	DIODE	BAT54ALT1G		
C704	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D202	6-501-193-01	DIODE	1SS355WTE-17		
C705	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D203	6-501-743-01	DIODE	MAZ8068GMLS0		
C706	1-126-163-11	ELECT	4.7uF	20%	50V	D204	6-501-743-01	DIODE	MAZ8068GMLS0		
C707	1-164-005-11	CERAMIC CHIP	0.47uF		25V	D205	6-501-743-01	DIODE	MAZ8068GMLS0		
C708	1-164-005-11	CERAMIC CHIP	0.47uF		25V	D305	6-500-522-01	DIODE	10EDB40-TA1B2		
C801	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D306	6-500-522-01	DIODE	10EDB40-TA1B2		
C802	1-165-727-31	ELECT	120uF	20%	16V	D307	6-500-522-01	DIODE	10EDB40-TA1B2		
C803	1-100-352-11	CERAMIC CHIP	1uF	20%	16V	D308	6-500-522-01	DIODE	10EDB40-TA1B2		
C804	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D309	6-500-522-01	DIODE	10EDB40-TA1B2		
C805	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D310	6-500-522-01	DIODE	10EDB40-TA1B2		
C806	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D311	6-500-522-01	DIODE	10EDB40-TA1B2		
C807	1-100-352-11	CERAMIC CHIP	1uF	20%	16V	D312	6-500-522-01	DIODE	10EDB40-TA1B2		
C808	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	D501	6-501-743-01	DIODE	MAZ8068GMLS0		
C809	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	D502	6-501-193-01	DIODE	1SS355WTE-17		
C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D503	6-501-743-01	DIODE	MAZ8068GMLS0		
C811	1-218-893-11	METAL CHIP	82K	0.5%	1/10W	D504	6-500-334-01	DIODE	MC2836-T112-1		
C813	1-126-924-11	ELECT	330uF	20%	10V	D505	6-501-193-01	DIODE	1SS355WTE-17		
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D601	6-501-782-01	DIODE	MAZ8180GMLS0		
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D603	6-501-782-01	DIODE	MAZ8180GMLS0		
C817	1-104-665-11	ELECT	100uF	20%	25V	D604	6-502-273-01	DIODE	MA2ZD140GLS0		
C819	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	D605	6-501-782-01	DIODE	MAZ8180GMLS0		
C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D606	6-501-738-01	DIODE	MAZ8062GMLS0		
C822	1-104-665-11	ELECT	100uF	20%	25V	D607	6-501-782-01	DIODE	MAZ8180GMLS0		
C823	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D701	6-501-571-01	DIODE	1N5404-C311-3		
C824	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D702	6-501-782-01	DIODE	MAZ8180GMLS0		
C901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D703	6-501-782-01	DIODE	MAZ8180GMLS0		
C902	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D704	6-501-782-01	DIODE	MAZ8180GMLS0		
C903	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D705	6-501-782-01	DIODE	MAZ8180GMLS0		
C904	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D706	6-501-782-01	DIODE	MAZ8180GMLS0		
C905	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D707	6-501-193-01	DIODE	1SS355WTE-17		
C906	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D708	6-501-743-01	DIODE	MAZ8068GMLS0		
C907	1-126-964-11	ELECT	10uF	20%	50V	D709	6-500-522-01	DIODE	10EDB40-TA1B2		
C908	1-126-964-11	ELECT	10uF	20%	50V	D801	6-501-768-01	DIODE	MAZ8120GMLS0		
C909	1-126-964-11	ELECT	10uF	20%	50V	D802	6-501-657-01	DIODE	MA24D5000BS0		
C910	1-126-964-11	ELECT	10uF	20%	50V	D803	6-501-734-01	DIODE	MAZ8056GMLS0		
C911	1-126-964-11	ELECT	10uF	20%	50V	D804	6-501-193-01	DIODE	1SS355WTE-17		
C912	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D901	6-501-193-01	DIODE	1SS355WTE-17		
C913	1-124-589-11	ELECT	47uF	20%	16V	D903	6-501-743-01	DIODE	MAZ8068GMLS0		
C915	1-126-933-11	ELECT	100uF	20%	16V	D904	6-501-743-01	DIODE	MAZ8068GMLS0		
C917	1-137-712-11	CERAMIC CHIP	0.0047uF	20%	250V	D905	6-501-743-01	DIODE	MAZ8068GMLS0		
C918	1-137-712-11	CERAMIC CHIP	0.0047uF	20%	250V	D908	6-501-743-01	DIODE	MAZ8068GMLS0		
C919	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D909	6-501-743-01	DIODE	MAZ8068GMLS0		
C921	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	D910	6-501-743-01	DIODE	MAZ8068GMLS0		
C922	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	D911	1-805-043-11	ABSORBER, CHIP SURGE			
C923	1-126-961-11	ELECT	2.2uF	20%	50V	D912	6-501-743-01	DIODE	MAZ8068GMLS0		
						D913	1-805-043-11	ABSORBER, CHIP SURGE			

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MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D914	1-805-043-11	ABSORBER, CHIP SURGE		JR28	1-216-296-11	SHORT CHIP	0
D915	8-719-978-33	DIODE DTZ-TT11-6.8B		JR29	1-216-296-11	SHORT CHIP	0
		< FUSE >		JR30	1-216-295-11	SHORT CHIP	0
F801	1-576-416-21	FUSE, MICRO (1608 TYPE) 2A		JR31	1-216-295-11	SHORT CHIP	0
		< FERRITE BEAD >		JR32	1-216-295-11	SHORT CHIP	0
FB1	1-400-334-21	FERRITE, EMI (SMD) (1608) (M60UI)		JR33	1-216-864-11	SHORT CHIP	0
FB2	1-400-334-21	FERRITE, EMI (SMD) (1608) (M60UI)		JR34	1-216-864-11	SHORT CHIP	0
FB3	1-400-334-21	FERRITE, EMI (SMD) (1608) (M60UI)		JR35	1-216-295-11	SHORT CHIP	0
		< IC >		JR36	1-216-296-11	SHORT CHIP	0
IC001	6-712-929-02	IC TEF6607T/V4/S470,518 (M60UI)		JR37	1-216-864-11	SHORT CHIP	0
IC001	6-712-929-12	IC TEF6607T/V4/S470/M5,518 (MR60UI)		JR38	1-216-864-11	SHORT CHIP	0
IC101	6-803-747-01	IC TDA7333013TR (MR60UI)		JR39	1-216-864-11	SHORT CHIP	0
IC301	6-705-359-02	IC TDA8588AJ/N2/R1 (M60UI)		JR40	1-216-295-11	SHORT CHIP	0
IC301	6-705-359-11	IC TDA8588AJ/N2/R1/M5 (MR60UI)		JR41	1-216-864-11	SHORT CHIP	0
				JR42	1-216-295-11	SHORT CHIP	0
IC302	6-711-670-01	IC XC6218P332PR		JR43	1-216-295-11	SHORT CHIP	0
IC303	6-709-458-01	IC XC61CN2802NR		JR44	1-216-296-11	SHORT CHIP	0
IC401	6-713-080-11	IC BD3447AFV-E2		JR45	1-216-864-11	SHORT CHIP	0
IC501	6-808-631-01	IC MB90F883AHPF-GE1-346A (for SERVICE)		JR46	1-216-864-11	SHORT CHIP	0
IC502	6-703-740-01	IC S-24CS02AFT-TB-G		JR47	1-216-295-11	SHORT CHIP	0
IC601	6-703-884-01	IC BA8271F-E2		JR48	1-216-296-11	SHORT CHIP	0
IC801	6-710-965-01	IC TPS40200DRG4		JR49	1-216-296-11	SHORT CHIP	0
IC802	6-710-624-01	IC TPS2051BDRG4		JR50	1-216-296-11	SHORT CHIP	0
IC803	8-759-586-19	IC TC7WH123FU(TE12R)		JR51	1-216-296-11	SHORT CHIP	0
		< JACK >				< COIL >	
J1	1-815-185-13	JACK (ANTENNA)		L1	1-414-180-51	INDUCTOR	3.3uH
J601	1-580-907-41	PLUG, CONNECTOR 11P (BUS CONTROL IN)		L2	1-410-501-61	INDUCTOR	2.2uH
J701	1-566-822-41	JACK (REMOTE IN)		L6	1-457-644-11	COIL (FM MIX)	
J901	1-774-700-41	JACK, PIN 6P (BUS AUDIO IN, REAR AUDIO OUT,FRONT AUDIO OUT)		L7	1-481-285-51	INDUCTOR	560uH
		< JUMPER RESISTOR >		L8	1-481-285-51	INDUCTOR	560uH
JR1	1-216-295-11	SHORT CHIP	0	L101	1-500-329-21	INDUCTOR, FERRITE BEAD (MR60UI)	
JR2	1-216-295-11	SHORT CHIP	0	L102	1-500-329-21	INDUCTOR, FERRITE BEAD (MR60UI)	
JR3	1-216-295-11	SHORT CHIP	0	L103	1-500-329-21	INDUCTOR, FERRITE BEAD (MR60UI)	
JR4	1-216-295-11	SHORT CHIP	0	L104	1-500-329-21	INDUCTOR, FERRITE BEAD (MR60UI)	
JR5	1-216-295-11	SHORT CHIP	0	L201	1-500-245-11	INDUCTOR, FERRITE BEAD	
JR6	1-216-295-11	SHORT CHIP	0	L202	1-469-876-11	INDUCTOR, FERRITE BEAD	
JR7	1-216-296-11	SHORT CHIP	0	L203	1-414-760-21	INDUCTOR, FERRITE BEAD	
JR8	1-216-296-11	SHORT CHIP	0	L204	1-500-245-11	INDUCTOR, FERRITE BEAD	
JR9	1-216-295-11	SHORT CHIP	0	L206	1-419-521-21	COIL, COMMOM MODE CHOKE	
JR10	1-216-296-11	SHORT CHIP	0	L401	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR11	1-216-295-11	SHORT CHIP	0	L402	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR12	1-216-296-11	SHORT CHIP	0	L501	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR13	1-216-296-11	SHORT CHIP	0	L701	1-456-617-11	COIL, CHOKE	
JR14	1-216-296-11	SHORT CHIP	0	L702	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR15	1-216-295-11	SHORT CHIP	0	L703	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR16	1-216-864-11	SHORT CHIP	0	L704	1-414-595-11	INDUCTOR, FERRITE BEAD	
JR17	1-216-295-11	SHORT CHIP	0	L801	1-411-499-11	COIL, CHOKE	47uH
JR18	1-216-296-11	SHORT CHIP	0	L802	1-419-624-11	COIL, CHOKE	68uH
JR20	1-216-295-11	SHORT CHIP	0	L803	1-412-525-31	INDUCTOR	10uH
JR21	1-216-296-11	SHORT CHIP	0	L901	1-500-245-11	INDUCTOR, FERRITE BEAD	
JR23	1-216-295-11	SHORT CHIP	0			< TRANSISTOR >	
JR24	1-216-295-11	SHORT CHIP	0	Q101	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF (MR60UI)	
JR25	1-216-295-11	SHORT CHIP	0	Q102	8-729-027-43	TRANSISTOR DTC114EKA-T146 (MR60UI)	
JR26	1-216-295-11	SHORT CHIP	0	Q201	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JR27	1-216-296-11	SHORT CHIP	0	Q501	8-729-027-23	TRANSISTOR DTA114EKA-T146	
				Q502	8-729-027-43	TRANSISTOR DTC114EKA-T146	
				Q503	8-729-027-43	TRANSISTOR DTC114EKA-T146	
				Q601	8-729-027-43	TRANSISTOR DTC114EKA-T146	
				Q701	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q702	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R217	1-216-296-11	SHORT CHIP	0
Q703	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R218	1-216-864-11	SHORT CHIP	0
Q801	6-551-923-01	FET TPC6108(T5RSONYF,M		R220	1-216-801-11	METAL CHIP	22 5% 1/10W
Q802	8-729-027-43	TRANSISTOR DTC114EKA-T146		R221	1-216-801-11	METAL CHIP	22 5% 1/10W
Q803	6-550-828-01	FET RSQ035P03TR		R301	1-216-296-11	SHORT CHIP	0
Q804	8-729-027-23	TRANSISTOR DTA114EKA-T146		R302	1-216-296-11	SHORT CHIP	0
Q805	8-729-027-43	TRANSISTOR DTC114EKA-T146		R303	1-216-811-11	METAL CHIP	150 5% 1/10W
Q806	6-551-923-01	FET TPC6108(T5RSONYF,M		R304	1-216-864-11	SHORT CHIP	0
Q901	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R305	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q902	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R306	1-216-295-11	SHORT CHIP	0
Q903	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R307	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q904	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R403	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
Q905	6-551-856-01	TRANSISTOR LTC614TKFP8T146		R404	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q906	8-729-027-23	TRANSISTOR DTA114EKA-T146		R406	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q907	8-729-027-43	TRANSISTOR DTC114EKA-T146		R407	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q908	8-729-047-76	TRANSISTOR FMC2A-T148		R408	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
		< RESISTOR >		R409	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R1	1-216-853-11	METAL CHIP	470K 5% 1/10W	R502	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2	1-216-853-11	METAL CHIP	470K 5% 1/10W	R504	1-216-845-11	METAL CHIP	100K 5% 1/10W
R3	1-216-864-11	SHORT CHIP	0 (MR60UI)	R505	1-216-845-11	METAL CHIP	100K 5% 1/10W
R4	1-216-864-11	SHORT CHIP	0	R508	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5	1-216-864-11	SHORT CHIP	0	R509	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6	1-216-843-11	METAL CHIP	68K 5% 1/10W	R510	1-216-845-11	METAL CHIP	100K 5% 1/10W
R10	1-216-839-11	METAL CHIP	33K 5% 1/10W	R511	1-216-845-11	METAL CHIP	100K 5% 1/10W
R11	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R512	1-216-809-11	METAL CHIP	100 5% 1/10W
R12	1-216-009-11	METAL CHIP	22 5% 1/10W	R513	1-216-821-11	METAL CHIP	1K 5% 1/10W
R13	1-216-809-11	METAL CHIP	100 5% 1/10W	R514	1-216-833-11	METAL CHIP	10K 5% 1/10W
R14	1-216-809-11	METAL CHIP	100 5% 1/10W	R515	1-216-821-11	METAL CHIP	1K 5% 1/10W
R15	1-216-864-11	SHORT CHIP	0 (MR60UI)	R516	1-216-833-11	METAL CHIP	10K 5% 1/10W
R16	1-216-864-11	SHORT CHIP	0 (MR60UI)	R517	1-216-845-11	METAL CHIP	100K 5% 1/10W
R102	1-216-797-11	METAL CHIP	10 5% 1/10W (MR60UI)	R518	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R103	1-216-845-11	METAL CHIP	100K 5% 1/10W (MR60UI)	R519	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R104	1-216-864-11	SHORT CHIP	0 (MR60UI)	R520	1-216-845-11	METAL CHIP	100K 5% 1/10W
R105	1-216-833-11	METAL CHIP	10K 5% 1/10W (MR60UI)	R521	1-216-845-11	METAL CHIP	100K 5% 1/10W
R106	1-216-821-11	METAL CHIP	1K 5% 1/10W (MR60UI)	R522	1-216-845-11	METAL CHIP	100K 5% 1/10W
R107	1-216-864-11	SHORT CHIP	0 (MR60UI)	R523	1-216-296-11	SHORT CHIP	0
R108	1-216-864-11	SHORT CHIP	0 (MR60UI)	R524	1-216-864-11	SHORT CHIP	0
R109	1-216-864-11	SHORT CHIP	0	R525	1-216-809-11	METAL CHIP	100 5% 1/10W
R110	1-216-864-11	SHORT CHIP	0	R526	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R111	1-216-864-11	SHORT CHIP	0	R527	1-216-809-11	METAL CHIP	100 5% 1/10W
R112	1-216-833-11	METAL CHIP	10K 5% 1/10W (MR60UI)	R528	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R201	1-216-845-11	METAL CHIP	100K 5% 1/10W	R529	1-216-809-11	METAL CHIP	100 5% 1/10W
R202	1-216-864-11	SHORT CHIP	0	R530	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R203	1-216-296-11	SHORT CHIP	0	R531	1-216-821-11	METAL CHIP	1K 5% 1/10W
R204	1-216-864-11	SHORT CHIP	0	R532	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R205	1-216-809-11	METAL CHIP	100 5% 1/10W	R533	1-216-817-11	METAL CHIP	470 5% 1/10W
R207	1-216-809-11	METAL CHIP	100 5% 1/10W	R534	1-216-817-11	METAL CHIP	470 5% 1/10W
R208	1-216-809-11	METAL CHIP	100 5% 1/10W	R535	1-216-817-11	METAL CHIP	470 5% 1/10W
R209	1-216-295-11	SHORT CHIP	0	R536	1-216-845-11	METAL CHIP	100K 5% 1/10W
R211	1-216-864-11	SHORT CHIP	0	R537	1-216-809-11	METAL CHIP	100 5% 1/10W
R212	1-216-864-11	SHORT CHIP	0	R538	1-216-845-11	METAL CHIP	100K 5% 1/10W
R213	1-216-821-11	METAL CHIP	1K 5% 1/10W	R539	1-216-845-11	METAL CHIP	100K 5% 1/10W
R214	1-216-821-11	METAL CHIP	1K 5% 1/10W	R540	1-216-809-11	METAL CHIP	100 5% 1/10W
R215	1-216-864-11	SHORT CHIP	0	R541	1-216-809-11	METAL CHIP	100 5% 1/10W
R216	1-216-295-11	SHORT CHIP	0	R543	1-216-845-11	METAL CHIP	100K 5% 1/10W (MR60UI)
				R545	1-216-845-11	METAL CHIP	100K 5% 1/10W
				R546	1-216-845-11	METAL CHIP	100K 5% 1/10W (MR60UI)
				R547	1-216-845-11	METAL CHIP	100K 5% 1/10W (M60UI)

CDX-M60UI/MR60UI

MAIN **SERVO** **SUB**

Ref. No.	Part No.	Description	Remark
R548	1-216-845-11	METAL CHIP 100K 5%	1/10W (M60UI)
R549	1-216-845-11	METAL CHIP 100K 5%	1/10W (M60UI)
R550	1-216-809-11	METAL CHIP 100 5%	1/10W
R551	1-216-845-11	METAL CHIP 100K 5%	1/10W
R552	1-216-845-11	METAL CHIP 100K 5%	1/10W
R553	1-216-845-11	METAL CHIP 100K 5%	1/10W
R554	1-216-845-11	METAL CHIP 100K 5%	1/10W
R555	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R556	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R557	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R558	1-216-809-11	METAL CHIP 100 5%	1/10W
R559	1-216-845-11	METAL CHIP 100K 5%	1/10W
R560	1-216-864-11	SHORT CHIP 0	
R561	1-216-864-11	SHORT CHIP 0	
R562	1-216-864-11	SHORT CHIP 0	
R563	1-216-849-11	METAL CHIP 220K 5%	1/10W
R564	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R565	1-216-809-11	METAL CHIP 100 5%	1/10W
R566	1-216-845-11	METAL CHIP 100K 5%	1/10W
R567	1-216-845-11	METAL CHIP 100K 5%	1/10W
R568	1-216-821-11	METAL CHIP 1K 5%	1/10W
R601	1-216-809-11	METAL CHIP 100 5%	1/10W
R602	1-216-809-11	METAL CHIP 100 5%	1/10W
R603	1-216-821-11	METAL CHIP 1K 5%	1/10W
R604	1-216-821-11	METAL CHIP 1K 5%	1/10W
R605	1-216-296-11	SHORT CHIP 0	
R606	1-216-809-11	METAL CHIP 100 5%	1/10W
R607	1-216-835-11	METAL CHIP 15K 5%	1/10W
R608	1-216-821-11	METAL CHIP 1K 5%	1/10W
R609	1-216-851-11	METAL CHIP 330K 5%	1/10W
R610	1-216-851-11	METAL CHIP 330K 5%	1/10W
R701	1-249-425-11	CARBON 4.7K 5%	1/4W
R702	1-216-821-11	METAL CHIP 1K 5%	1/10W
R703	1-249-425-11	CARBON 4.7K 5%	1/4W
R704	1-216-841-11	METAL CHIP 47K 5%	1/10W
R705	1-216-833-11	METAL CHIP 10K 5%	1/10W
R706	1-216-833-11	METAL CHIP 10K 5%	1/10W
R707	1-216-845-11	METAL CHIP 100K 5%	1/10W
R708	1-216-837-11	METAL CHIP 22K 5%	1/10W
R709	1-216-841-11	METAL CHIP 47K 5%	1/10W
R710	1-216-841-11	METAL CHIP 47K 5%	1/10W
R711	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R801	1-216-842-11	METAL CHIP 56K 5%	1/10W
R802	1-216-842-11	METAL CHIP 56K 5%	1/10W
R803	1-246-335-11	METAL CHIP 0.012 1%	1/2W
R804	1-246-335-11	METAL CHIP 0.012 1%	1/2W
R805	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R806	1-216-843-11	METAL CHIP 68K 5%	1/10W
R808	1-216-845-11	METAL CHIP 100K 5%	1/10W
R809	1-216-864-11	SHORT CHIP 0	
R810	1-216-851-11	METAL CHIP 330K 5%	1/10W
R811	1-218-893-11	METAL CHIP 82K 0.5%	1/10W
R812	1-218-895-11	METAL CHIP 100K 0.5%	1/10W
R813	1-218-879-11	METAL CHIP 22K 0.5%	1/10W
R814	1-216-842-11	METAL CHIP 56K 5%	1/10W
R815	1-216-833-11	METAL CHIP 10K 5%	1/10W
R816	1-216-821-11	METAL CHIP 1K 5%	1/10W
R818	1-216-833-11	METAL CHIP 10K 5%	1/10W
R819	1-216-833-11	METAL CHIP 10K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R820	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R821	1-216-821-11	METAL CHIP 1K 5%	1/10W
R822	1-216-864-11	SHORT CHIP 0	
R825	1-216-821-11	METAL CHIP 1K 5%	1/10W
R826	1-216-821-11	METAL CHIP 1K 5%	1/10W
R827	1-216-821-11	METAL CHIP 1K 5%	1/10W
R903	1-216-821-11	METAL CHIP 1K 5%	1/10W
R904	1-216-821-11	METAL CHIP 1K 5%	1/10W
R905	1-216-833-11	METAL CHIP 10K 5%	1/10W
R906	1-216-833-11	METAL CHIP 10K 5%	1/10W
R907	1-216-813-11	METAL CHIP 220 5%	1/10W
R908	1-216-813-11	METAL CHIP 220 5%	1/10W
R909	1-216-813-11	METAL CHIP 220 5%	1/10W
R910	1-216-033-00	METAL CHIP 220 5%	1/10W
R911	1-216-813-11	METAL CHIP 220 5%	1/10W
R913	1-216-017-11	METAL CHIP 47 5%	1/10W
R914	1-216-817-11	METAL CHIP 470 5%	1/10W
R915	1-216-817-11	METAL CHIP 470 5%	1/10W
R916	1-216-834-11	METAL CHIP 12K 5%	1/10W
R917	1-216-834-11	METAL CHIP 12K 5%	1/10W
R918	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R919	1-216-833-11	METAL CHIP 10K 5%	1/10W
R920	1-216-833-11	METAL CHIP 10K 5%	1/10W
R921	1-216-833-11	METAL CHIP 10K 5%	1/10W
R922	1-216-833-11	METAL CHIP 10K 5%	1/10W
R923	1-216-833-11	METAL CHIP 10K 5%	1/10W
R924	1-216-027-00	METAL CHIP 120 5%	1/10W
R925	1-216-027-00	METAL CHIP 120 5%	1/10W
R926	1-216-027-00	METAL CHIP 120 5%	1/10W
< SWITCH >			
S501	1-786-458-11	SWITCH, PUSH (1 KEY) (FRONT PANEL DETACH DETECT)	
S502	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (M60UI)	
S503	1-786-826-11	SWITCH, TACTILE (RESET)	
< THERMISTOR (POSITIVE) >			
TH601	1-803-350-21	THERMISTOR, POSITIVE	
< SURGE ABSORBER >			
VR1	1-805-043-11	ABSORBER, CHIP SURGE	
< VIBRATOR >			
X1	1-814-161-11	QUARTZ CRYSTAL UNIT (4MHz)	
X101	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz) (MR60UI)	
X501	1-814-207-21	VIBRATOR, CERAMIC (7.92MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

A-1554-409-A	SERVO BOARD, COMPLETE		

SUB BOARD			

1-835-781-11	CABLE, FLEXIBLE FLAT (21 CORE) (CN202)		
< CAPACITOR >			
C201	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C202	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C203	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN201	1-818-142-11	SOCKET, CONNECTOR 20P	
		< DIODE >	
D203	6-501-743-01	DIODE MAZ8068GMLS0	
D204	6-501-743-01	DIODE MAZ8068GMLS0	
LED201	6-502-542-01	LED SCM015BC7TT86P (▲)	
LED202	6-502-542-01	LED SCM015BC7TT86P (DOOR INDICATOR)	
		< RESISTOR >	
R203	1-216-864-11	SHORT CHIP 0	
R205	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R206	1-216-049-11	METAL CHIP 1K 5% 1/10W	
		< SWITCH >	
S201	1-786-653-21	SWITCH, TACTILE (▲)	

		MISCELLANEOUS	

3	1-835-781-11	CABLE, FLEXIBLE FLAT (21 CORE)	
11	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (MR60UI)	
11	1-833-972-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (M60UI)	
12	1-833-887-11	CONNECTION CORD (RCA) (SUB OUT (MONO))	
14	1-836-199-11	CONNECTION CORD FOR AUTOMOBILE (USB)	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

		ACCESSORIES	

	1-479-077-13	REMOTE COMMANDER (RM-X151)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151)	
	2-683-516-01	CAP (AUX) (for AUX jack)	
	4-127-000-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,GERMAN,DUTCH,ITALIAN) (MR60UI)	
	4-127-000-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,GERMAN,DUTCH) (M60UI)	
	4-127-001-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH,GERMAN,DUTCH,ITALIAN) (MR60UI)	
	4-127-001-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH,GERMAN,DUTCH) (M60UI)	
	X-2187-544-1	CASE ASSY (for FRONT PANEL)	

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS			

151	X-2179-455-2	FRAME ASSY, FITTING	
152	1-465-459-31	ADAPTOR, ANTENNA (MR60UI)	
153	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (MR60UI)	
154	1-833-972-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (M60UI)	
155	3-876-675-01	KEY (FRAME)	
156	3-874-329-11	COLLAR	
157	X-3381-154-1	SCREW ASSY (BS4), FITTING	
158	3-349-410-11	BUSHING	
159	3-934-325-01	SCREW, +K (5X8) TAPPING	
160	(not supplied)	PLATE (FITTING)	

