

CDX-GT210/GT212/ GT262/GT262S

SERVICE MANUAL

Ver. 1.3 2007.03



AEP Model

UK Model

CDX-GT210/GT212

E Model

CDX-GT262/GT262S

Saudi Arabia Model

CDX-GT262

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT111/GT161/GT161S
CD Drive Mechanism Type	MG-101TA-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	95 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108 MHz (CDX-GT210/GT212/GT262: EA) 87.5 – 108 MHz (at 50 kHz step) (CDX-GT262: IND/GT262S) 87.5 – 107.9 MHz (at 200 kHz step) (CDX-GT262: IND/GT262S)
FM tuning interval	50 kHz/200 kHz switchable (CDX-GT262: IND/GT262S)
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

MW/LW

Tuning range	MW: 531 – 1,602 kHz (CDX-GT210/GT212/GT262: EA) LW: 153 – 279 kHz (CDX-GT210/GT212: EA) MW: 531 – 1,602 kHz (at 9 kHz step) (CDX-GT262: IND/GT262S) MW: 530 – 1,710 kHz (at 10 kHz step) (CDX-GT262: IND/GT262S)
MW tuning interval	9 kHz/10 kHz switchable (CDX-GT262: IND/GT262S)
Antenna (aerial) terminal	External antenna (aerial) connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 μ V, LW: 40 μ V

SW (CDX-GT262/GT262S)

Tuning range	SW1: 2,940 – 7,735 kHz SW2: 9,500 – 18,135 kHz (except for 10,140 – 11,575 kHz)
Antenna (aerial) terminal	External antenna (aerial) connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 μ V

– Continued on next page –

FM/MW/LW COMPACT DISC PLAYER
CDX-GT210/GT212

FM/MW/SW COMPACT DISC PLAYER
CDX-GT262/GT262S

CDX-GT210/GT212/GT262/GT262S

Ver. 1.2

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms) (CDX-GT210/GT212/GT262: EA) 50 W × 4 (at 4 ohms) (CDX-GT262: IND/GT262S)

General

Output	Power antenna (aerial) relay control terminal
Inputs	Telephone ATT control terminal (CDX-GT210/GT212) Antenna (aerial) input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ±10 dB at 100 Hz High: ±10 dB at 10 kHz
Loudness	+9 dB at 100 Hz +5 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground (earth))
Dimensions	Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories	Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

- Abbreviation
EA : Saudi Arabia model
IND : Indian 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.

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)

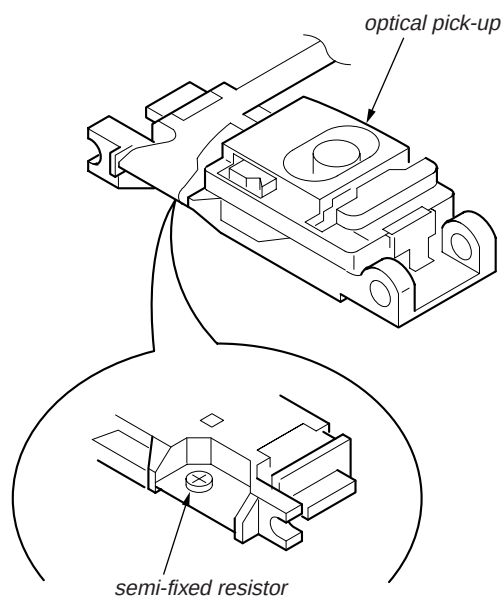
PATD-012 (Part No. 4-225-203-01)

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.

CLASS 1 LASER PRODUCT

This label is located on the bottom of the chassis.

• CD Playback

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

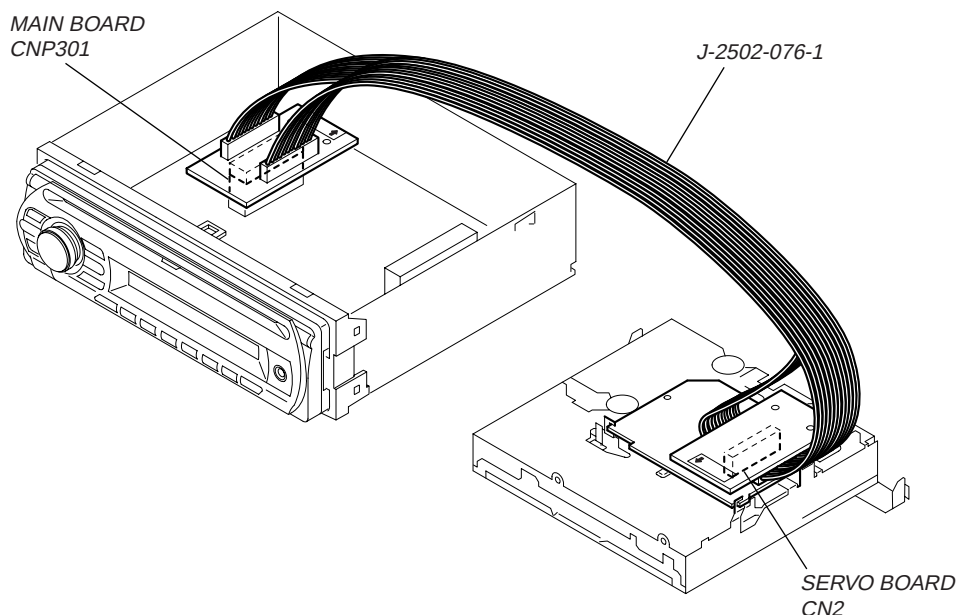
Type of discs	Label on the disc
CD-DA	 
MP3 WMA	   

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

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).



● UNLEADED SOLDER

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

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1177-201-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.

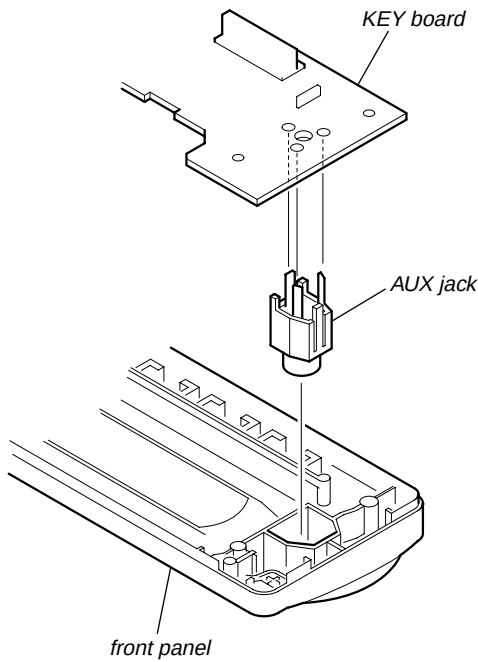


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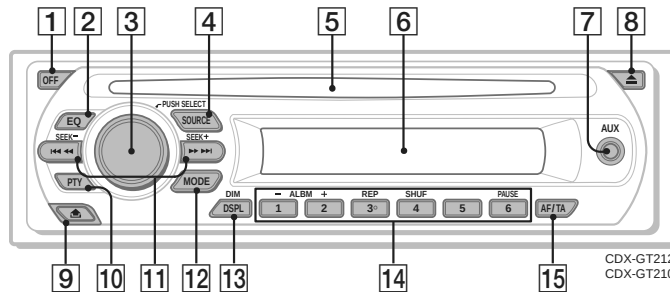
SECTION 1 GENERAL

This section is extracted
from instruction manual.

• LOCATION OF CONTROL (CDX-GT210/GT212)

Location of controls and basic operations

Main unit



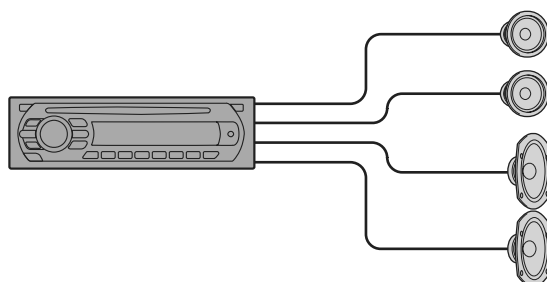
Refer to the pages listed for details.

- 1 OFF button**
To power off; stop the source.
- 2 EQ (equalizer) button 9**
To select an equalizer type (XPLD, NATURAL, HARD, UPBEAT, VOCAL, CUSTOM or OFF).
- 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/AUX).
- 5 Disc slot**
To insert the disc (label side up). Playback starts automatically.
- 6 Display window**
- 7 AUX input jack 10**
To connect a portable audio device.
- 8 ▲ (eject) button**
To eject the disc.
- 9 🚪 (front panel release) button 4**
- 10 PTY (Program Type) button 9**
To select PTY in RDS.
- 11 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).
- 12 MODE button 7**
To select the radio band (FM/MW/LW).
- 13 DSPL (display)/DIM (dimmer) button 7, 8**
To change display items (press); change the display brightness (press and hold).
- 14 Number buttons**
CD:
①/②: **ALBM -/+***
To skip albums (press); skip albums continuously (press and hold).
③: **REP 7**
④: **SHUF 7**
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 15 AF (Alternative Frequencies)/TA (Traffic Announcement) button 8**
To set AF and TA in RDS.

* When an MP3/WMA is played.

• CONNECTIONS (CDX-GT210/GT212)

Connection example
Anschlussbeispiel
Exemple de raccordement
Esempio di collegamento
Voorbeeldaansluitingen

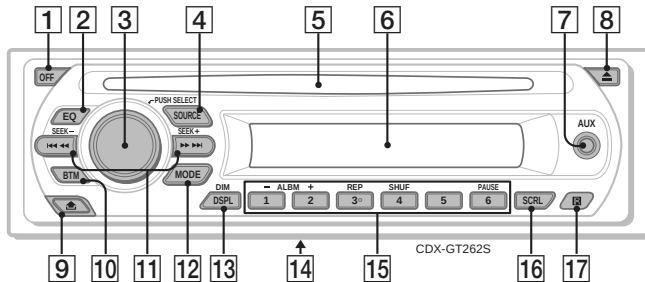


1 2 1 2 1 2	1 2 1 2 1 2	1 2 1 2 1 2	1 2 1 2 1 2
1 To the interface cable of a car telephone 2 An Schnittstellenkabel eines Autotelefons Warning If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead 3 may damage the antenna (aerial). Notes on the control and power supply leads The supplied power supply lead (aerial) supplies +12 V CC when you turn on the tuner, or when you activate the AF (Alternating Frequency) or Antenna Amplification function. When you connect the FM/AMVW/LV antenna (aerial) in the rear/side glass, connect the power antenna (aerial) in the front glass (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult the 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. Do not attempt to connect the speakers in parallel and with inadequate power handling capacities to avoid its damage. Do not connect the speaker terminals for other chassis, or connect the terminals of the right speakers with those of the left speaker. To connect the ground (earth) lead with those of the negative (-) terminal of the speaker. Do not connect the speakers in parallel. Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the speakers. To avoid a malfunction, do not use the built-in speaker leads installed in the car stereo system as common negative (-) lead for the right and left speakers. Do not connect the unit's speaker leads to each other. Notes If speaker is not correctly connected, "FALLURE" appears in the display. In this case, make sure the speaker is connected correctly. Ein Fehlfunktionssignal wird generieren, wenn keine die im Fahrzeug installierten Lautsprecher korrekt angeschlossen sind. Wenn eine Anzeige eine gemeinsame negative (-) Leitung für den rechten und linken Lautsprecher verwendet wird, wird ein Fehlfunktionssignal generiert. Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander. Hinweise zum Anschließen Wenn die Lautsprecher nicht richtig angeschlossen sind, erscheint „FALLURE“ im Display. Vergewissern Sie sich in diesem Fall, dass die Lautsprecher richtig angeschlossen sind.	1 Vers le cordon de liaison d'un téléphone de voiture 2 Avertissement Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du câble d'alimentation fourni 3 risque d'endommager l'antenne. Remarques sur les câbles de commande et d'alimentation Le câble d'alimentation (antenne) fournit +12 V CC lorsque vous allumez le récepteur ou lorsque vous activez la fonction AF (fréquence alternative) ou la fonction d'amplification d'antenne. Lorsque vous connectez l'antenne FM/AMVW/LV (antenne) dans le vitrage arrière/côté, connectez l'antenne (antenne) dans le vitrage avant (bleu) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'antenne existante (antenne) amplificateur. Pour plus de détails, consultez votre revendeur. Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil. Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil. Remarques pour la conservation de la mémoire Lorsque le câble d'alimentation jaune est connecté, le circuit de la mémoire sera toujours alimenté même lorsque le contact est en position d'arrêt. Remarques sur le raccordement des haut-parleurs Avant de raccorder les haut-parleurs, éteignez l'appareil. Utilisez des haut-parleurs ayant une impédance de 4 ohms ou plus et une capacité d'admission sonore suffisante. N'utilisez pas des haut-parleurs avec une impédance de 4 ohms ou plus et une capacité d'admission sonore insuffisante pour éviter d'endommager l'appareil. N'essayez pas de raccorder les bornes du système de haut-parleurs au chassis de la voiture et ne pas connecter les bornes d'antenne à la masse commune. Ne raccordez la câble de mise à la masse de cet appareil à la borne négative (-) du haut-parleur. Ne connectez pas les haut-parleurs en parallèle. Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec un amplificateur intégré) aux bornes des haut-parleurs pourrait endommager l'appareil. Pour éviter tout dysfonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si le système d'antenne utilise une ligne négative commune (-) 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 ne sont pas raccordés correctement, le message "FALLURE" s'affiche. Dans ce cas, assurez-vous que les haut-parleurs sont raccordés correctement.	1 Al cavo interfaccia di un telefono per auto 2 Avvertenza Quando si collega l'apparecchio con il cavo di alimentazione in dotazione 3, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relé. Note sui cavi di controllo e di alimentazione Il cavo giallo di controllo dell'alimentazione fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (potenziatore di FM/AMVW/LV). Se l'automobile è dotata di antenna FM/AMVW/LV incorporata nel vetro posteriore/collante, collegare il cavo (blu) al controllo dell'antenna elettrica o il cavo (rosso) di ingresso nel sistema di accessori alla porta di alimentazione dell'amplificatore di potenza dell'antenna esistente. Per ulteriori informazioni, consultare il proprio rivenditore. Non è possibile usare un'antenna elettrica senza scatola a relé con questo apparecchio. Collegamento per la conservazione della memoria Quando il cavo d'alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è in posizione di arresto. Note sul collegamento dei diffusori Prima di collegare i diffusori spegnere l'apparecchio. Utilizzare diffusori con un'impedenza di 4 ohms o superiore e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati. Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali dei diffusori dentro a quelli del diffusore comune. Non collegare il cavo di terra di questo apparecchio al terminale negativo (-) del diffusore. Non collegare i cavi di messa a terra di questo apparecchio al terminale negativo (-) del diffusore. Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi (con amplificatore integrato) ai terminali dei diffusori potrebbe danneggiare l'apparecchio. Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori integrati installati nel sistema di auto se il sistema di antenna utilizza una linea negativa comune (-) per i diffusori destro e sinistro. Non collegare i cavi tra i cavi dei diffusori dell'apparecchio. Nota sui collegamenti Se i diffusori non sono collegati correttamente, "FALLURE" viene visualizzato nel display. In tal caso, accertarsi che il diffusore sia collegato correttamente.	1 Naar het interface-snoer van een autotelefoon 2 Waarschuwing Indien u een elektrische antenne heeft zonder relaiskast kan het aansluiten van deze eenheid met de bijgeleverde voedingskabel 3 de antenne beschadigen. Opmerkingen over de bedrading en de antenne De bedradingskabel van de elektrische antenne (antenne) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF-functie (Alternating Frequency) of de antenneversterkerfunctie activeert. Wanneer u de FM/AMVW/LV-antenne (antenne) in de achterruit/zijkruit, moet u de bedradingskabel van de elektrische antenne (antenne) of de voedingskabel van de accessoires (rood) aan de voedingskabel van de bestaande antenneversterker aansluiten. Voor meer informatie, raadpleeg uw dealer voor meer informatie. Een antenne zonder relaiskast kan niet worden gebruikt met dit apparaat. Het mogelijk een elektrische antenne te beschadigen als deze niet wordt beschermd door een relaiskast. Opmerkingen over de aansluiting van de luidsprekers Voordat u de luidsprekers aansluit, zet het apparaat uit. Zolang de gele voedingskabel is aangesloten, blijft de geheugen opslag van het geheugen intact, ook wanneer de ontstekingscontact van het voertuig uit is. Opmerkingen betreffende het aansluiten van de luidsprekers Zorg dat het apparaat is uitsgeschakeld, alvorens de luidsprekers aan te sluiten. Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en een voldoende vermogen, anders kan het apparaat worden beschadigd. Verbonden de aansluiting van dit apparaat niet met de negatieve (-) aansluiting van de luidspreker. Verbonden de aansluiting van dit apparaat niet met de negatieve (-) aansluiting van de luidspreker. Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de aansluitingen van het apparaat. Het aansluiten van actieve luidsprekers kan schade aan het apparaat veroorzaken. Indien tot beschadiging van de actieve luidsprekers. Sluit dus niet aansluitend luidsprekers zonder ingebouwde versterker aan. Om defecten te vermijden mag u de bestaande luidsprekers niet gebruiken als gemeenschappelijke negatieve (-) draad voor de rechter- en linkerluidspreker. Verbond de luidsprekdraden niet met elkaar. Opmerking over aansluiten Als de luidspreker niet goed is aangesloten, wordt "FALLURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker correct is aangesloten.

• LOCATION OF CONTROL (CDX-GT262S)

Location of controls and basic operations

Main unit



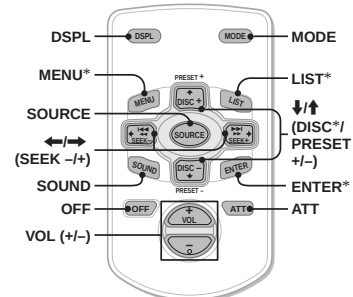
Refer to the pages listed for details.

- 1 OFF button**
To power off; stop the source.
- 2 EQ (equalizer) button 8**
To select an equalizer type (XPLOD, NATURAL, HARD, UPBEAT, VOCAL, CUSTOM or OFF).
- 3 Volume control dial/select button 8**
To adjust volume (rotate); select setup items (press and rotate).
- 4 SOURCE button**
To power on; change the source (Radio/CD/AUX).
- 5 Disc slot**
To insert the disc (label side up). Playback starts automatically.
- 6 Display window**
- 7 AUX input jack 10**
To connect a portable audio device.
- 8 ▲ (eject) button**
To eject the disc.
- 9 🚪 (front panel release) button 4**
- 10 BTM button 7**
To start the BTM function (press and hold).
- 11 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).
- 12 MODE button 7**
To select the radio band (FM/MW/SW).
- 13 DSPL (display)/DIM (dimmer) button 7**
To change display items (press); change the display brightness (press and hold).
- 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:
①/②: **ALBM -/+***
To skip albums (press); skip albums continuously (press and hold).
③: **REP 7**
④: **SHUF 7**
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 16 SCRL (scroll) button**
To scroll display item.
- 17 Receptor for the card remote commander**

* When an MP3/WMA is played.

Card remote commander RM-X114

The corresponding buttons on the card remote commander control the same functions as those on this unit.



The following buttons on the card remote commander have also different buttons/functions from the unit. For details, see "With the card remote commander."

- **SOUND button**
The same as the select button on the unit.
- **◀/▶ (SEEK -/+) buttons**
To control CD/radio, the same as **SEEK -/+** on the unit.
- **↑/↓ (DISC*/PRESET +/-) buttons**
To control CD, the same as ①/② (ALBM +/-) buttons on the unit.
- **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

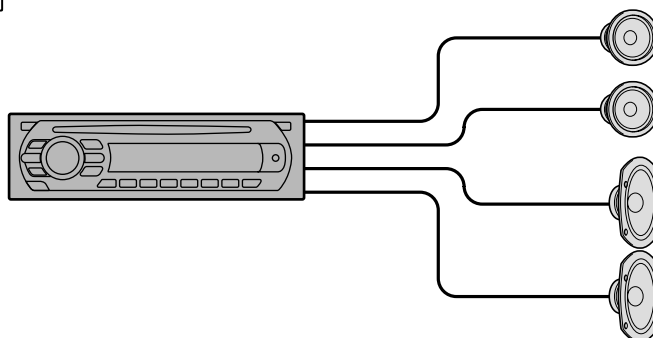
* Not available for this unit.

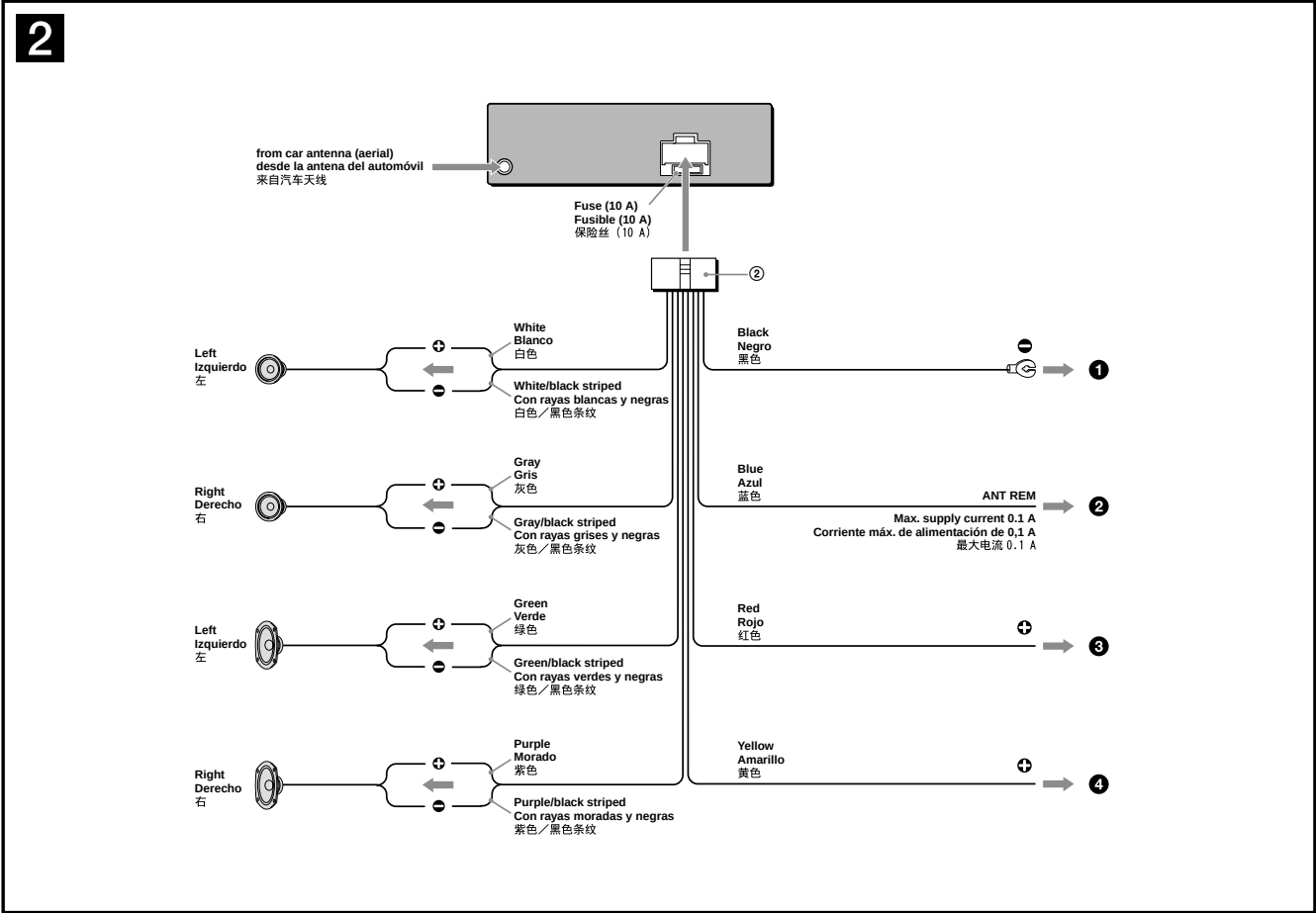
Note

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.

• CONNECTIONS (CDX-GT262S)

Connection example Ejemplo de conexiones 线路连接图例





Connection diagram 2

- 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/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- 3

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/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- 4

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/MW/SW 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 is not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker is connected correctly.

Diagrama de conexión 2

- 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 señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
 - Si el automóvil incorpora una antena de FM/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".
- 3

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/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".
- 4

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/MW/SW 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 señal de la 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 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.

Nota sobre la conexión

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

线路连接图 2

- 1

至汽车金属表面

首先连接黑色地线，然后连接黄色和红色电源导线。
- 2

至电动天线控制导线或天线升降器的电源导线

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/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。
- 3

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。确保首先将黑色地线连接至汽车金属表面。
 - 若汽车的后/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。
- 4

至 + 12 V 电源端子，该端子随时处于通电状态

确保首先将黑色地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/侧玻璃上有内置 FM/MW/SW 天线时，请将电动天线控制线（蓝色）或辅助电源导线（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。
- 本机不能使用不具备继电器盒的电动天线。

保持记忆的线路连接法

当连接了黄色的电源导线时，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

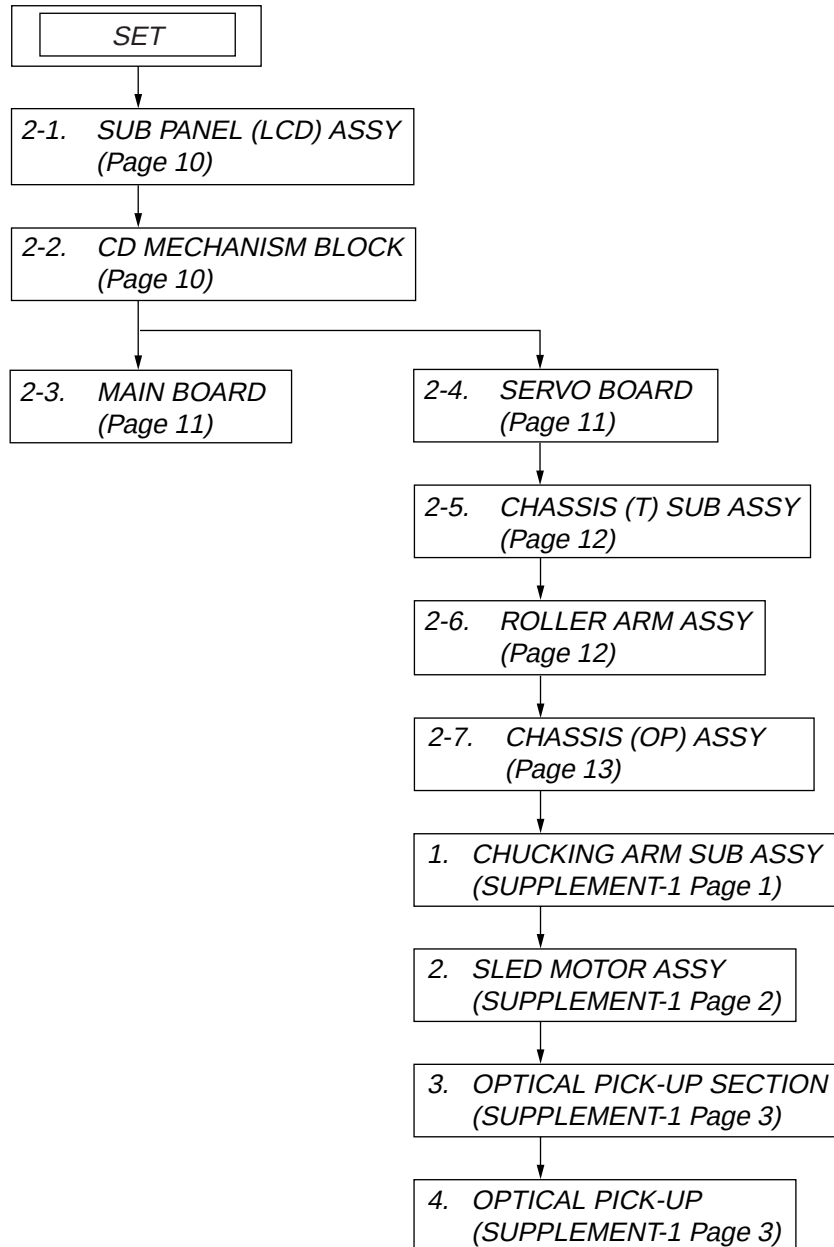
- 连接扬声器之前，请关闭本机电源。
- 请使用阻抗为 4-8 欧姆且具有足够功率处理能力的扬声器，以免损坏。
- 勿将扬声器端子连接到汽车底盘上，或将右扬声器的端子与左扬声器的端子连接。
- 勿将本机的地线连接到扬声器的负极 (-) 端子上。
- 扬声器不可并联连接。
- 请勿连接无源扬声器。将有源扬声器（具有内置放大器）连接到扬声器端子可能会损坏本机。
- 若本机使用左、右扬声器的共用负载 (-) 导线，为了避免故障，切勿使用安装在汽车内的内置扬声器导线。
- 请勿将本机扬声器导线相互连接。

连接的注意事项

如果未正确连接扬声器，则显示屏上会出现 "FAILURE"。这时，请确保扬声器连接正确。

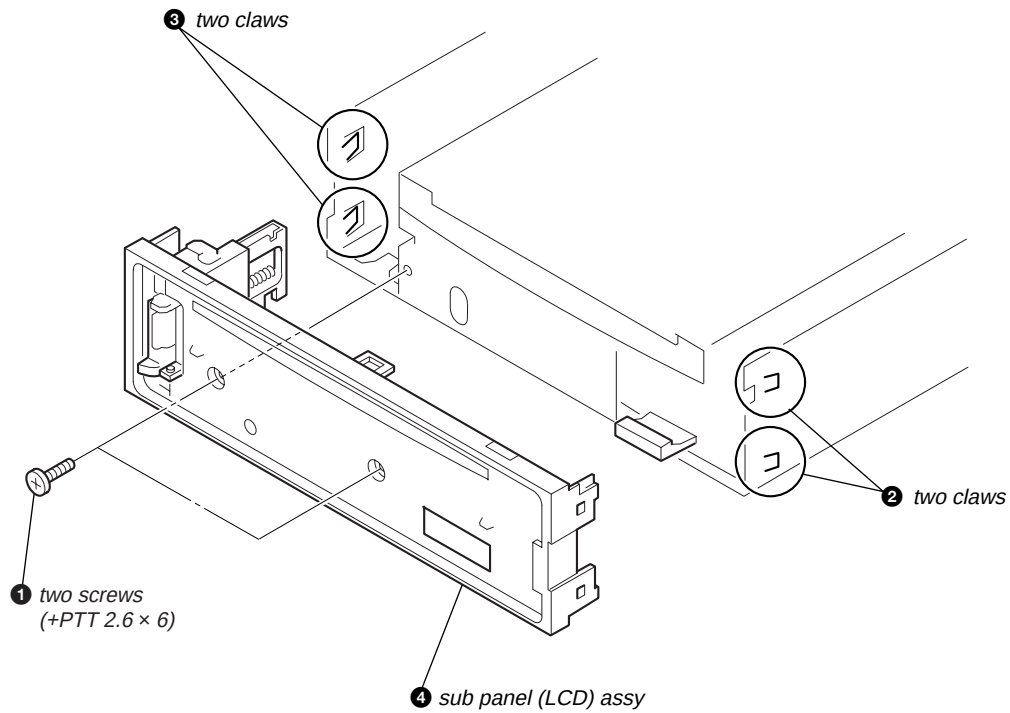
SECTION 2 DISASSEMBLY

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

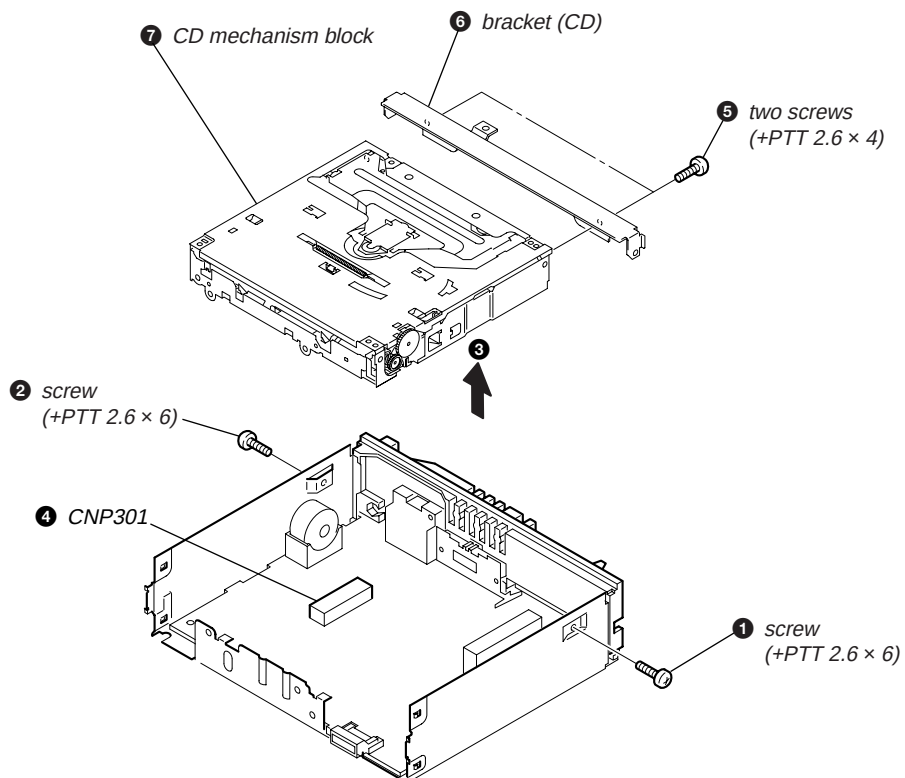


Note: Follow the disassembly procedure in the numerical order given.

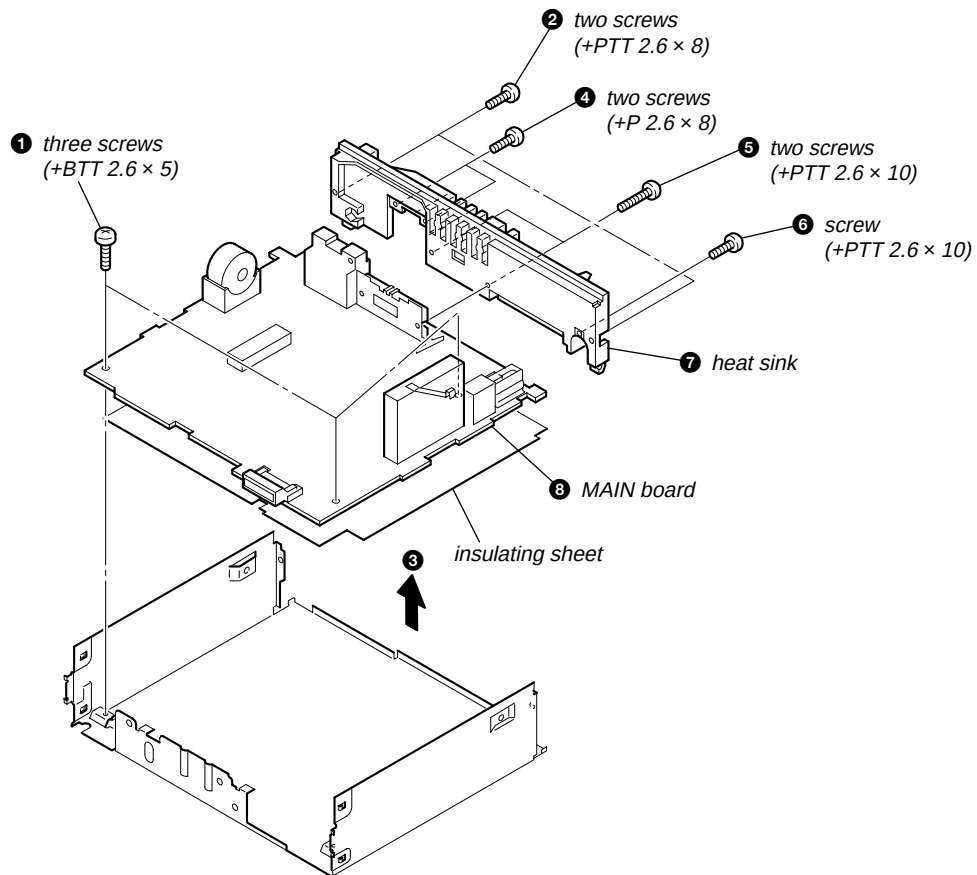
2-1. SUB PANEL (LCD) ASSY



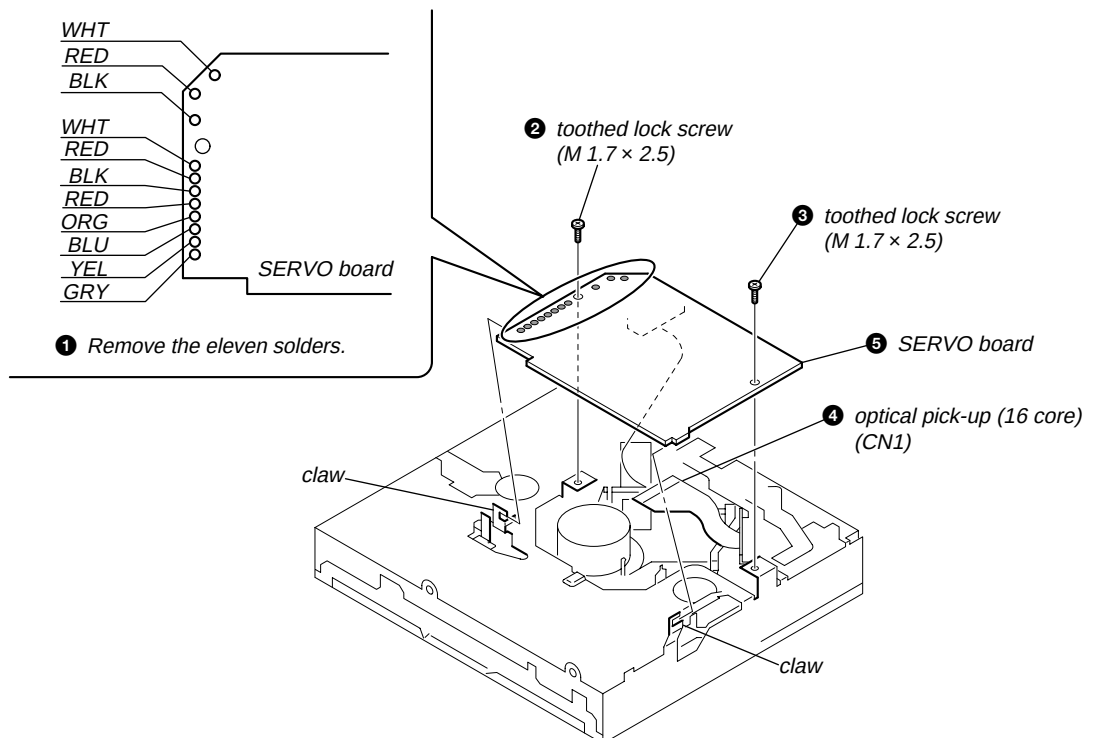
2-2. CD MECHANISM BLOCK



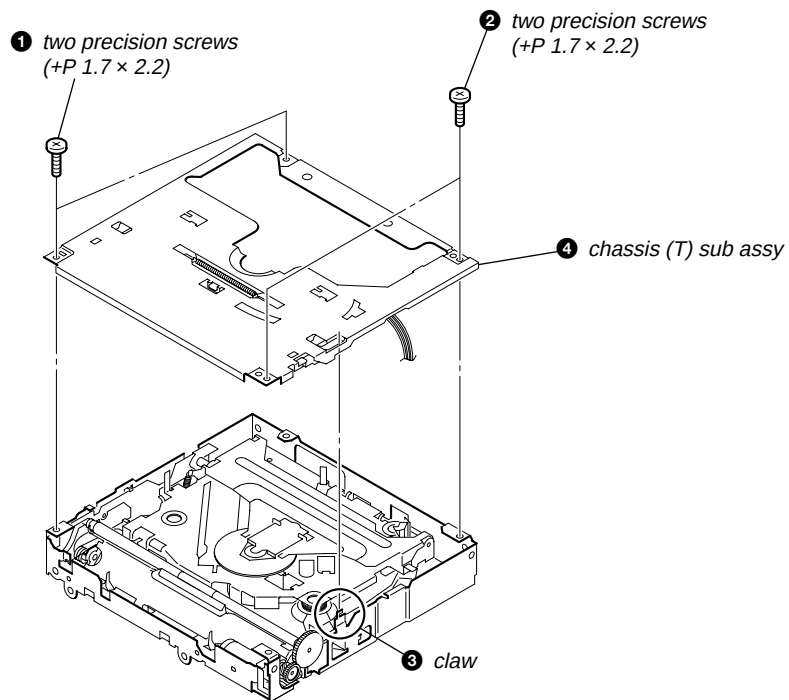
2-3. MAIN BOARD



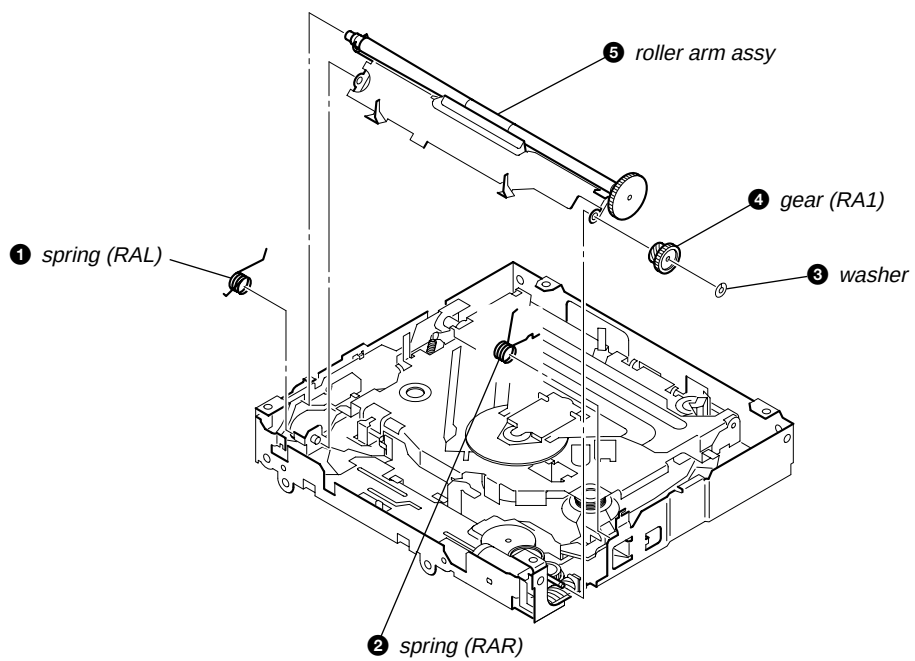
2-4. SERVO BOARD



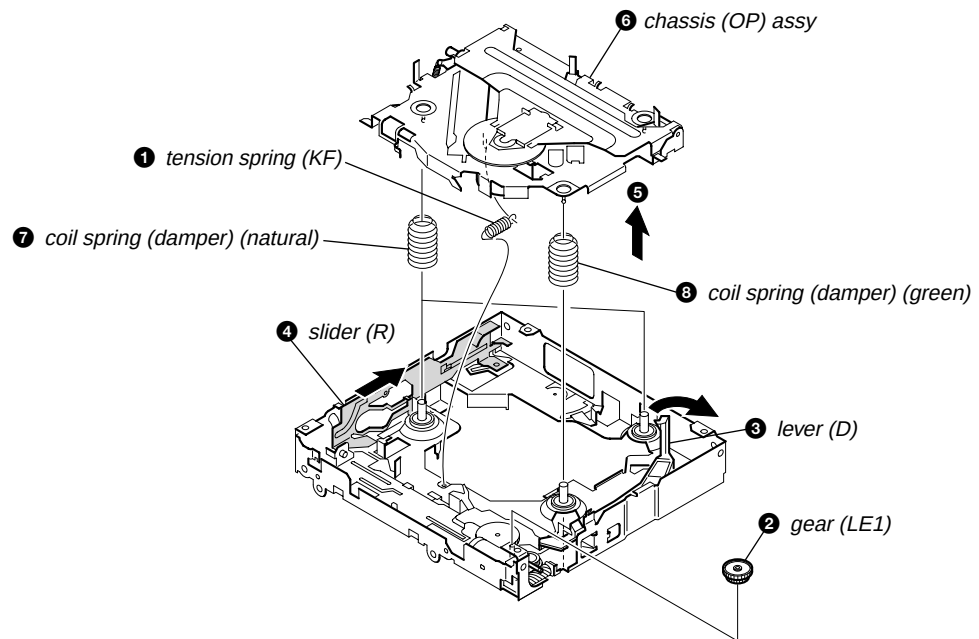
2-5. CHASSIS (T) SUB ASSY



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

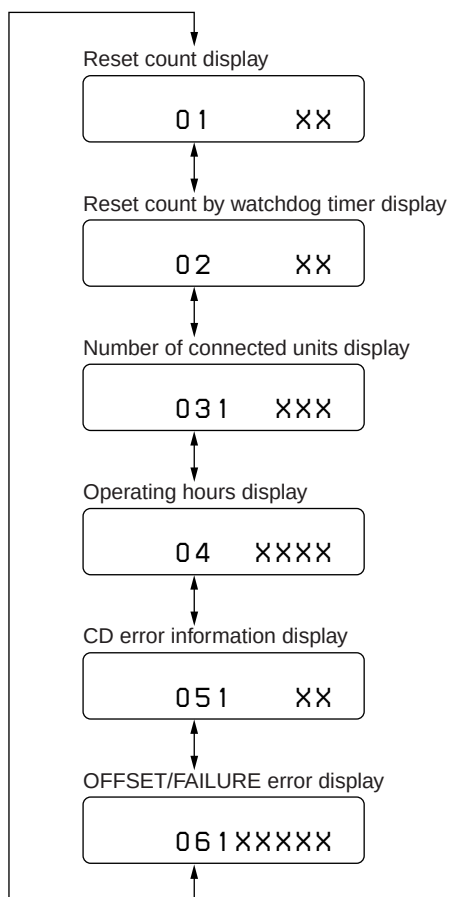
With the power off, press the **[4/SHUF]** button, **[5]** button, and **[4/SHUF]** button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

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

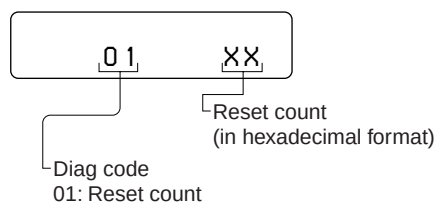
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, "reset count" is displayed. The display mode is switched by each rotation of **[▶▶▶▶/SEEK +]** or **[◀◀◀◀/SEEK -]** keys.

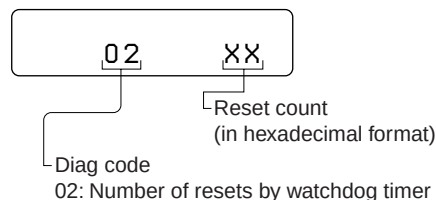


4. Contents of each display mode

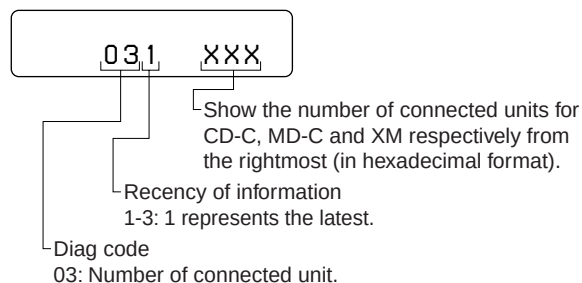
4-1. Reset count display mode



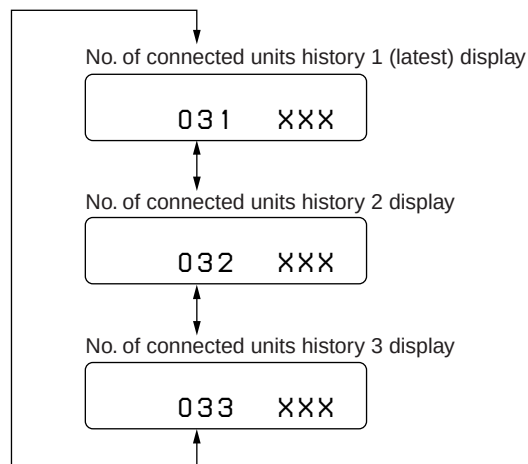
4-2. Reset count by watchdog timer display mode



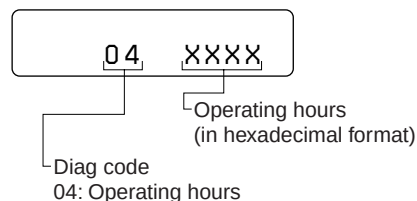
4-3. Number of connected units display mode

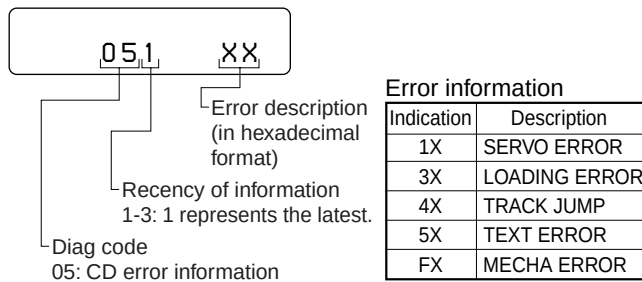
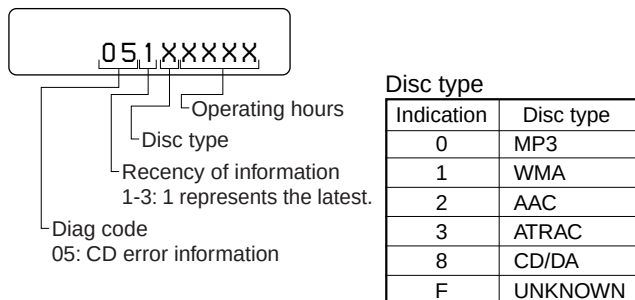


The display mode is switched by each rotation of **[2/ALBM +]** or **[1/ALBM -]** keys during the number of connected units display mode.

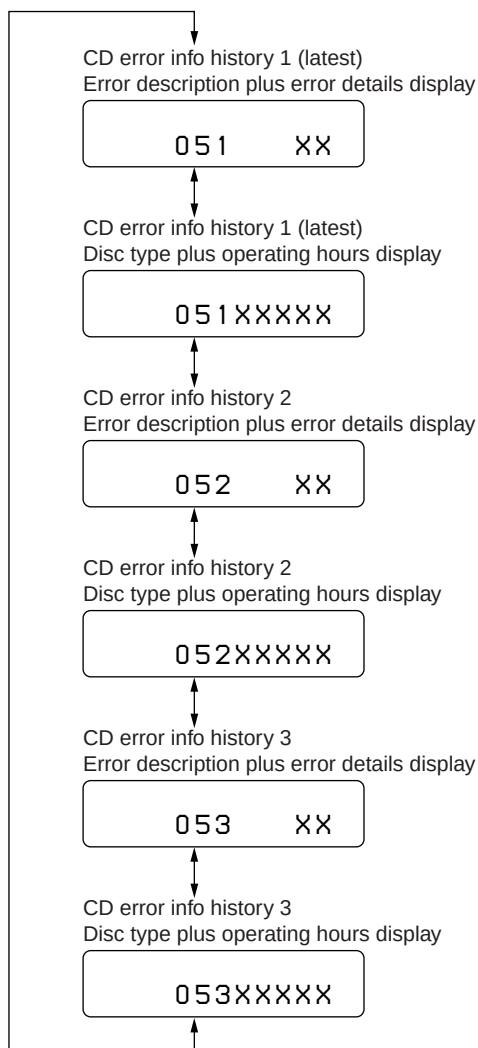
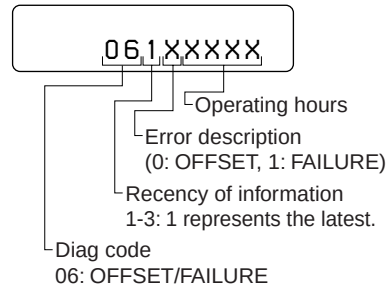


4-4. Operating hours display mode

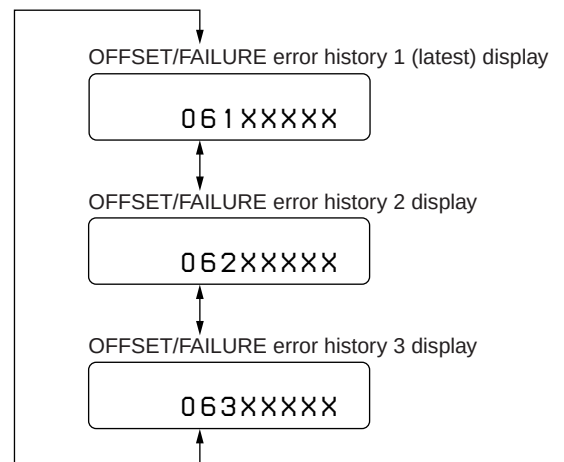


4-5. CD error information display mode**4-5-1. Error description****4-5-2. Disc type and operating hours**

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

**4-6. OFFSET/FAILURE error display mode**

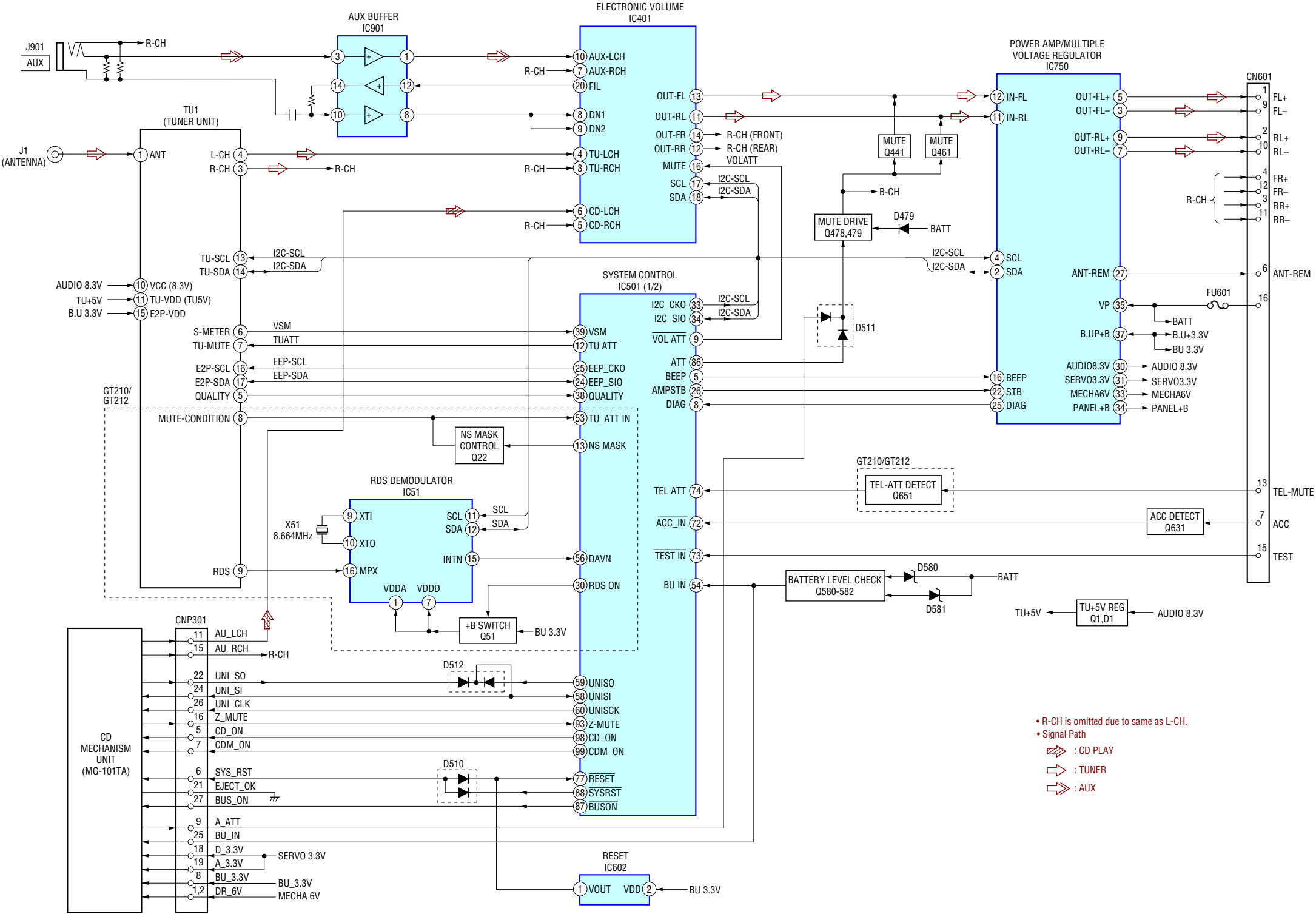
The display mode is switched by each rotation of **[2/ALBM +]** or **[1/ALBM -]** keys during the OFFSET/FAILURE error display mode.



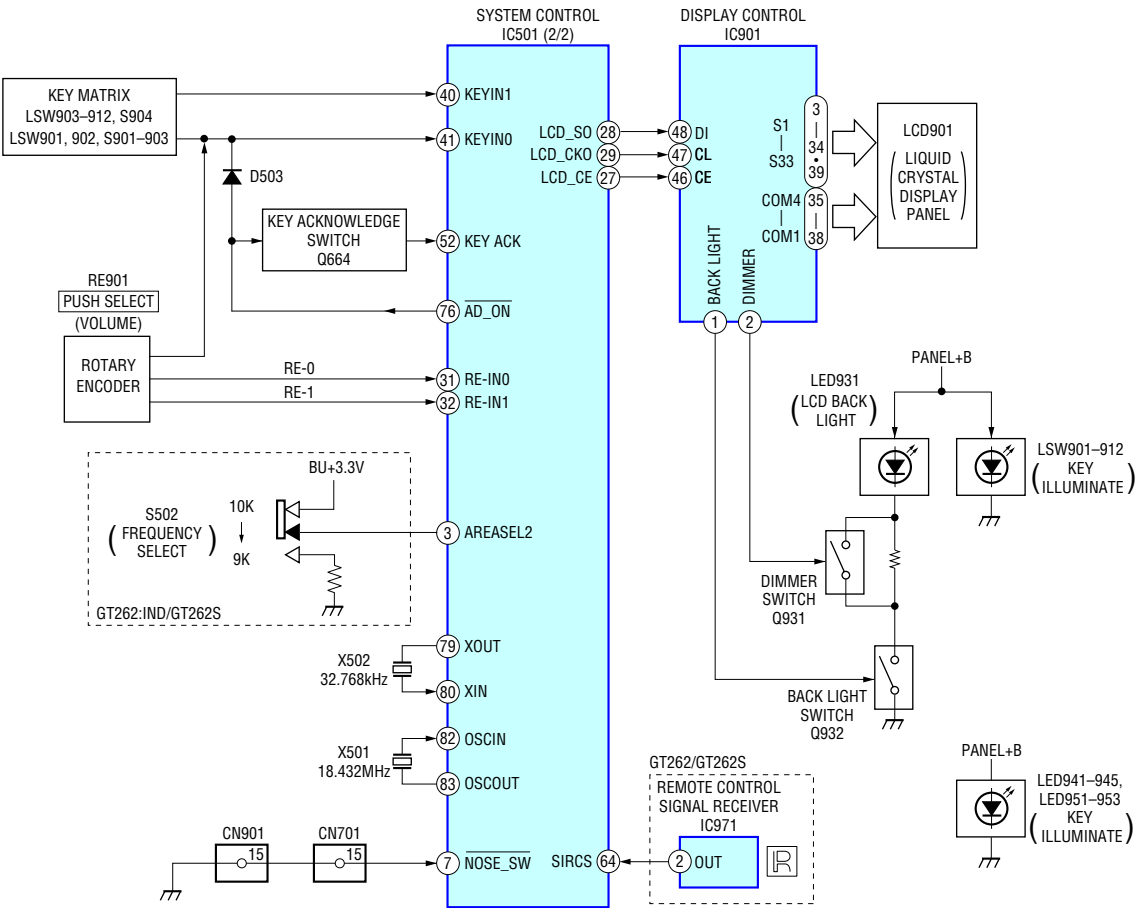
MEMO

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 $\frac{1}{4}W$ 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.

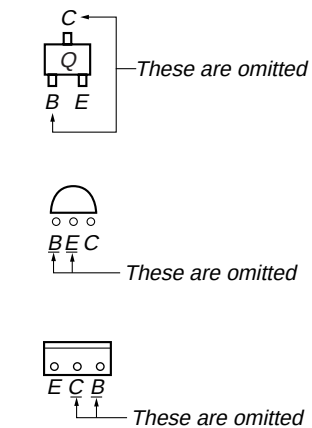
- --- : B+ Line.
- --- : B- Line.
- $\square$: adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- $< \quad >$: CD PLAY
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations 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
- $\Rightarrow$: AUX
- Abbreviation
- EA : Saudi Arabia model.
- IND : Indian model.
- RU : Russia model.

For printed wiring boards.

Note:

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

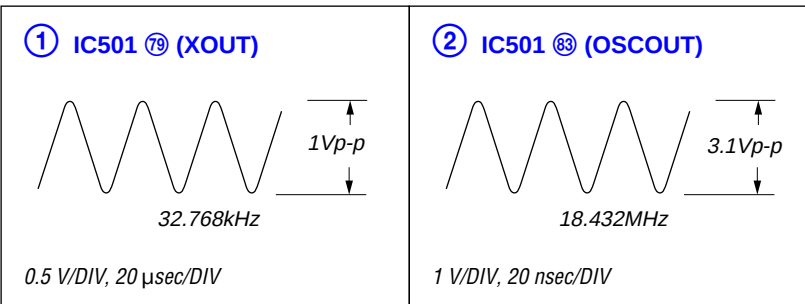
Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

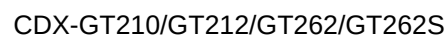


- Abbreviation
- EA : Saudi Arabia model.
- IND : Indian model.
- RU : Russia model.

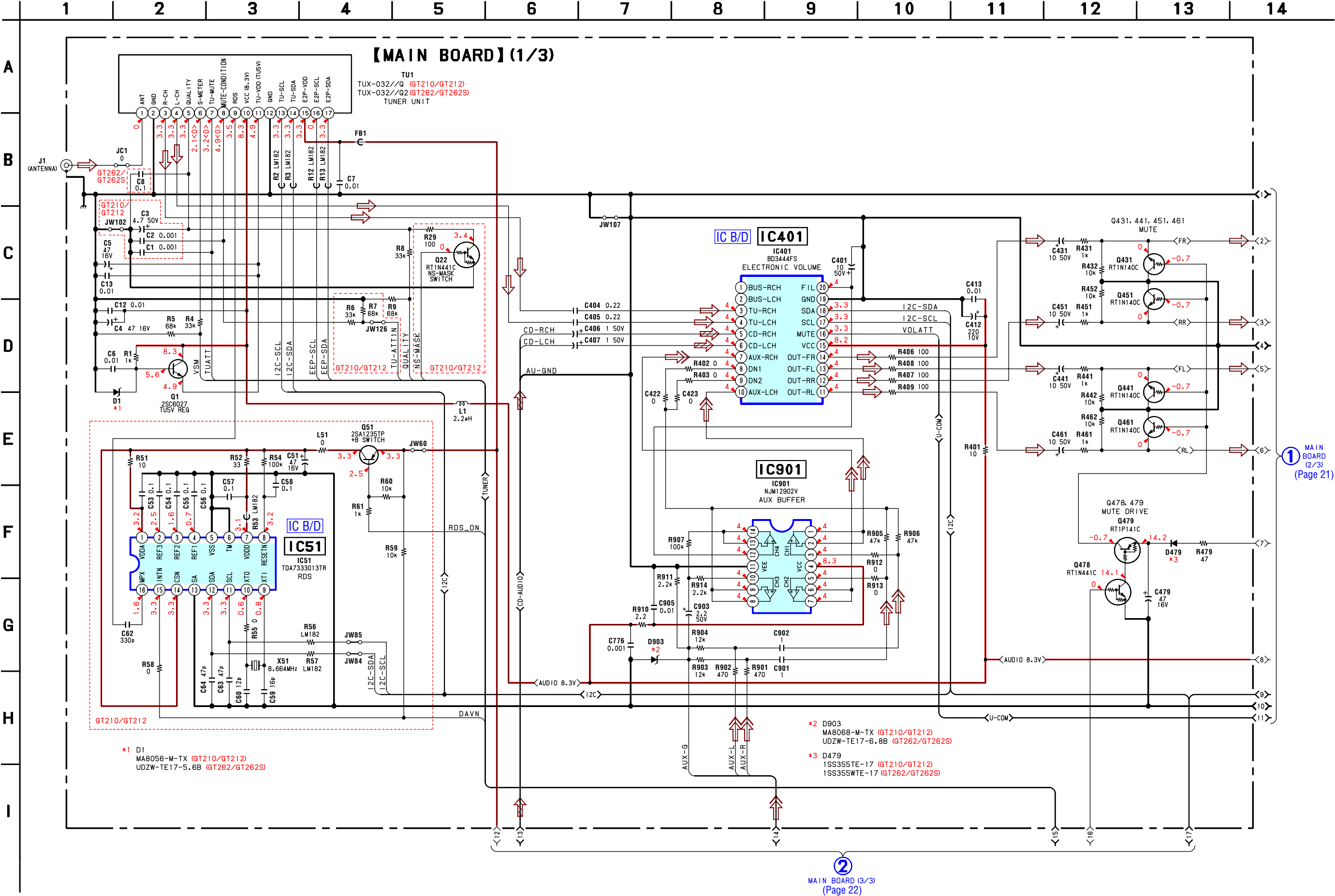
• Waveforms

— MAIN Board —

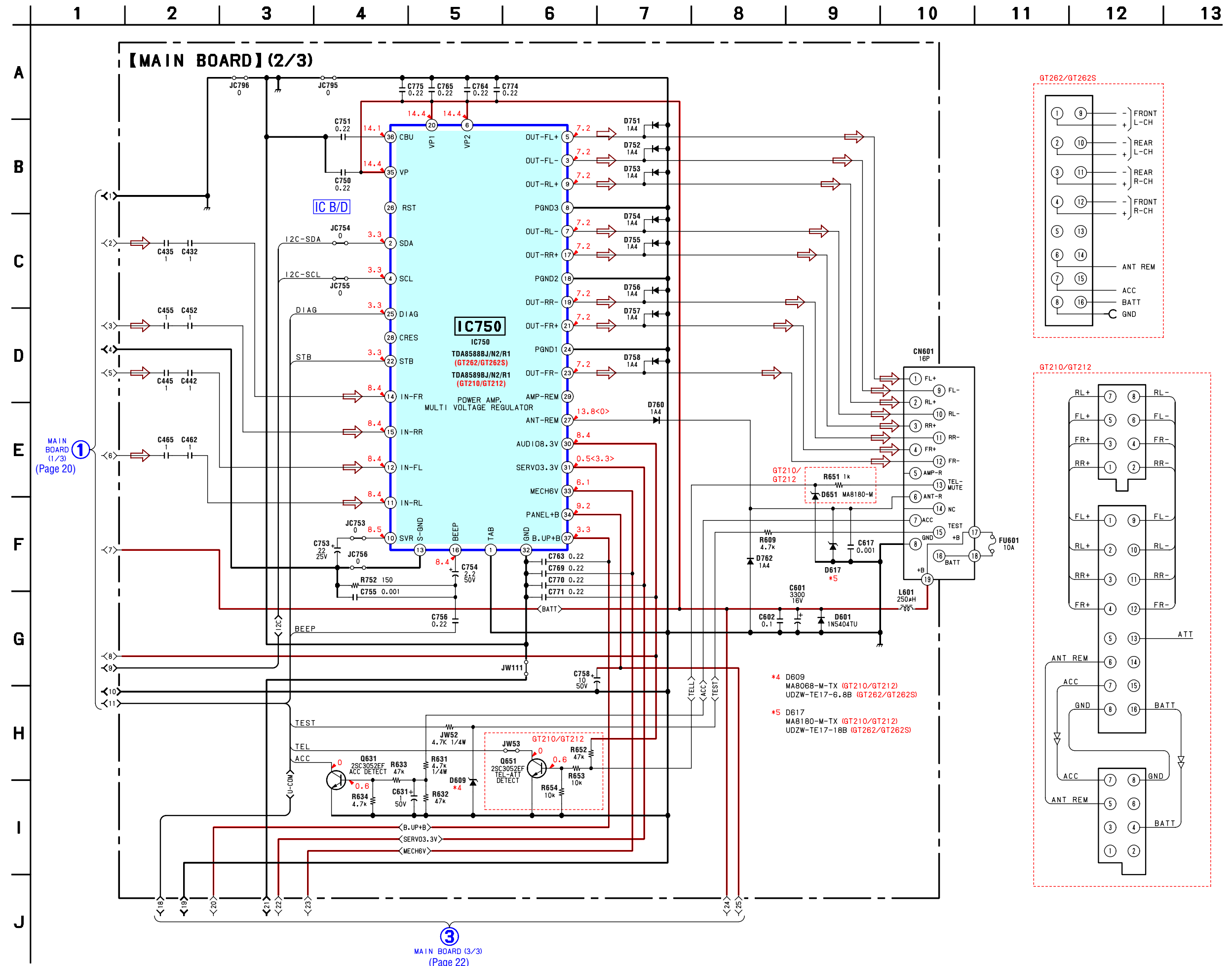




4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 25 for IC Block Diagram.



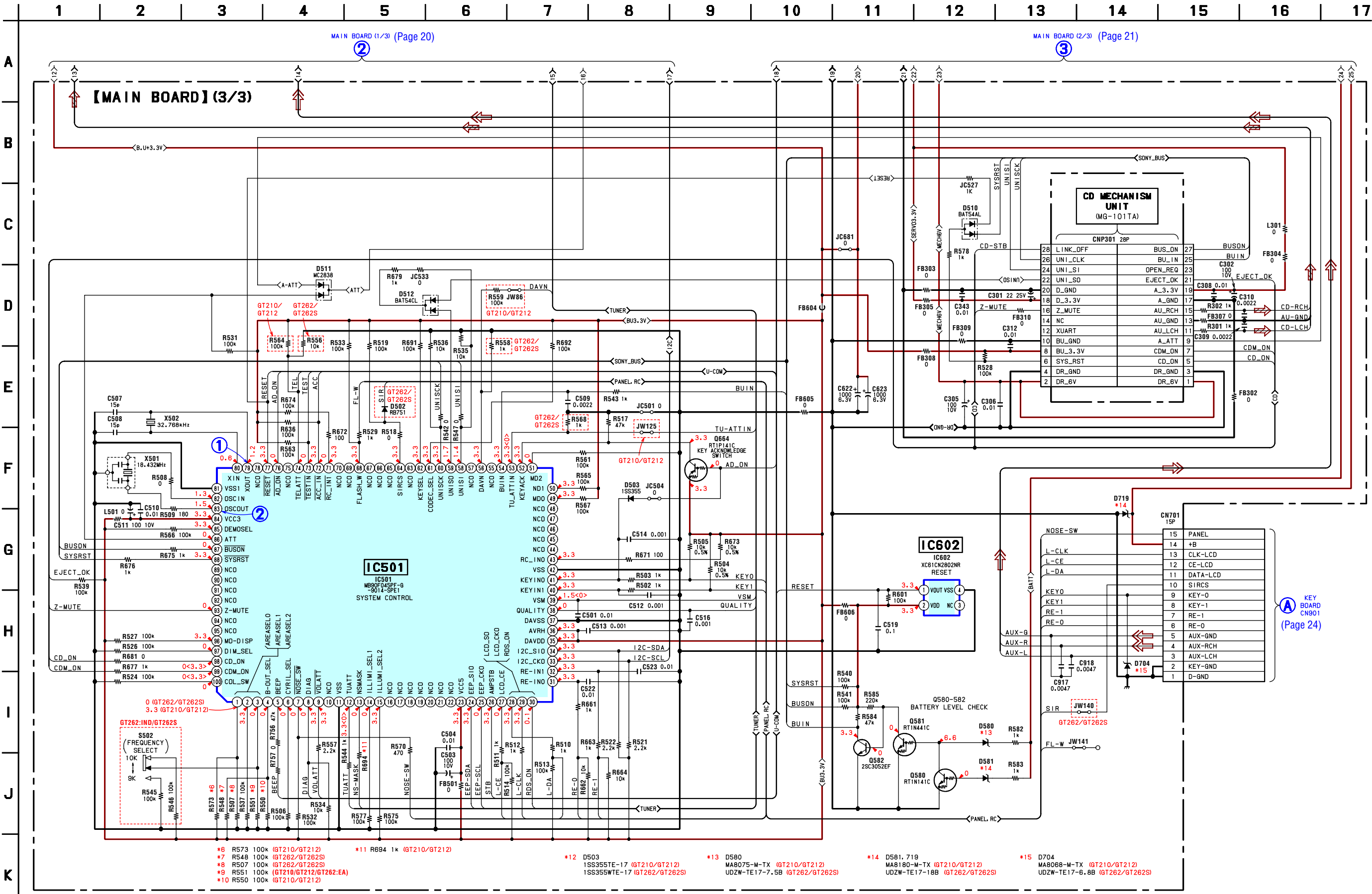
4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 26 for IC Block Diagram.

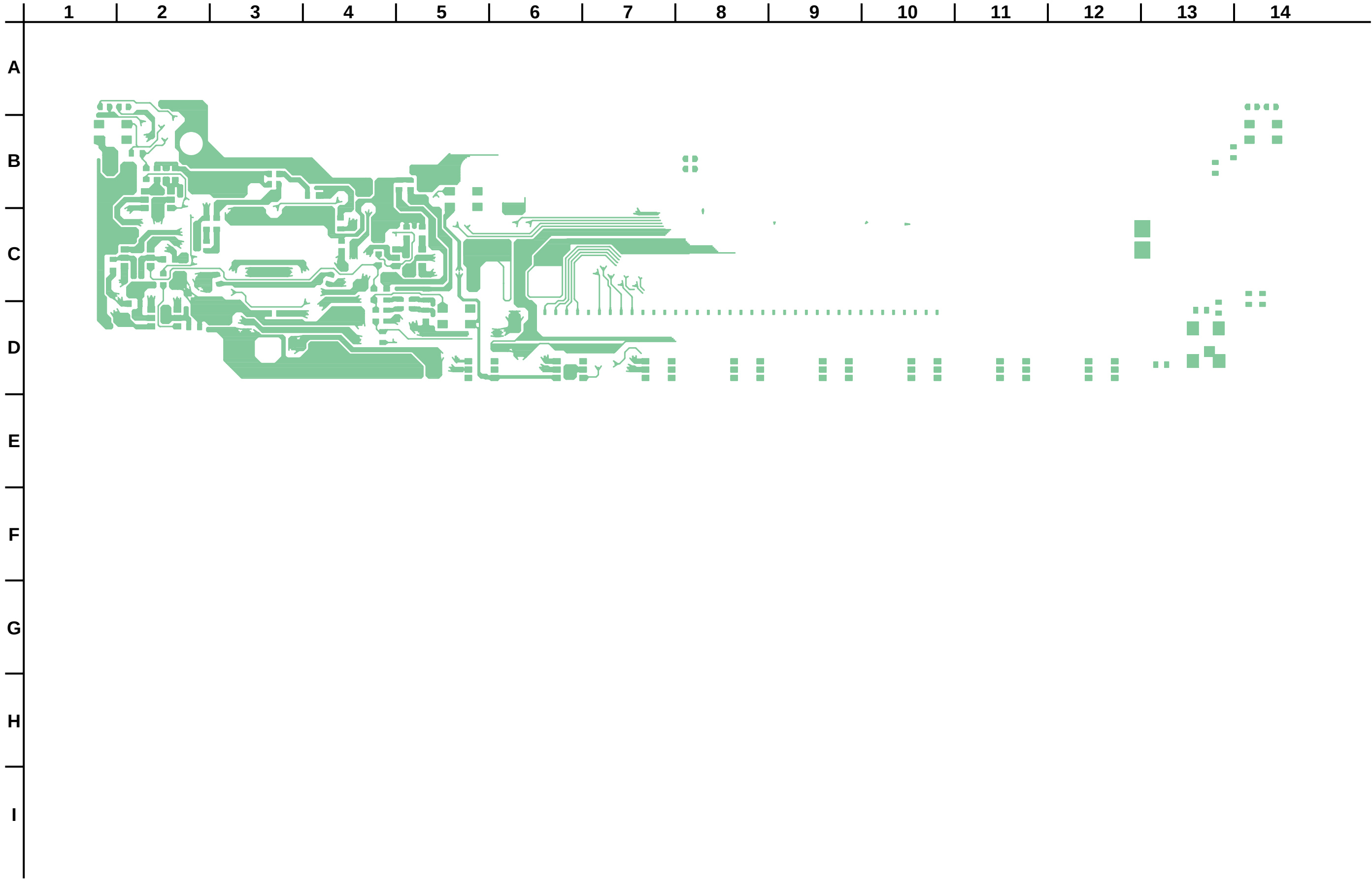


4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

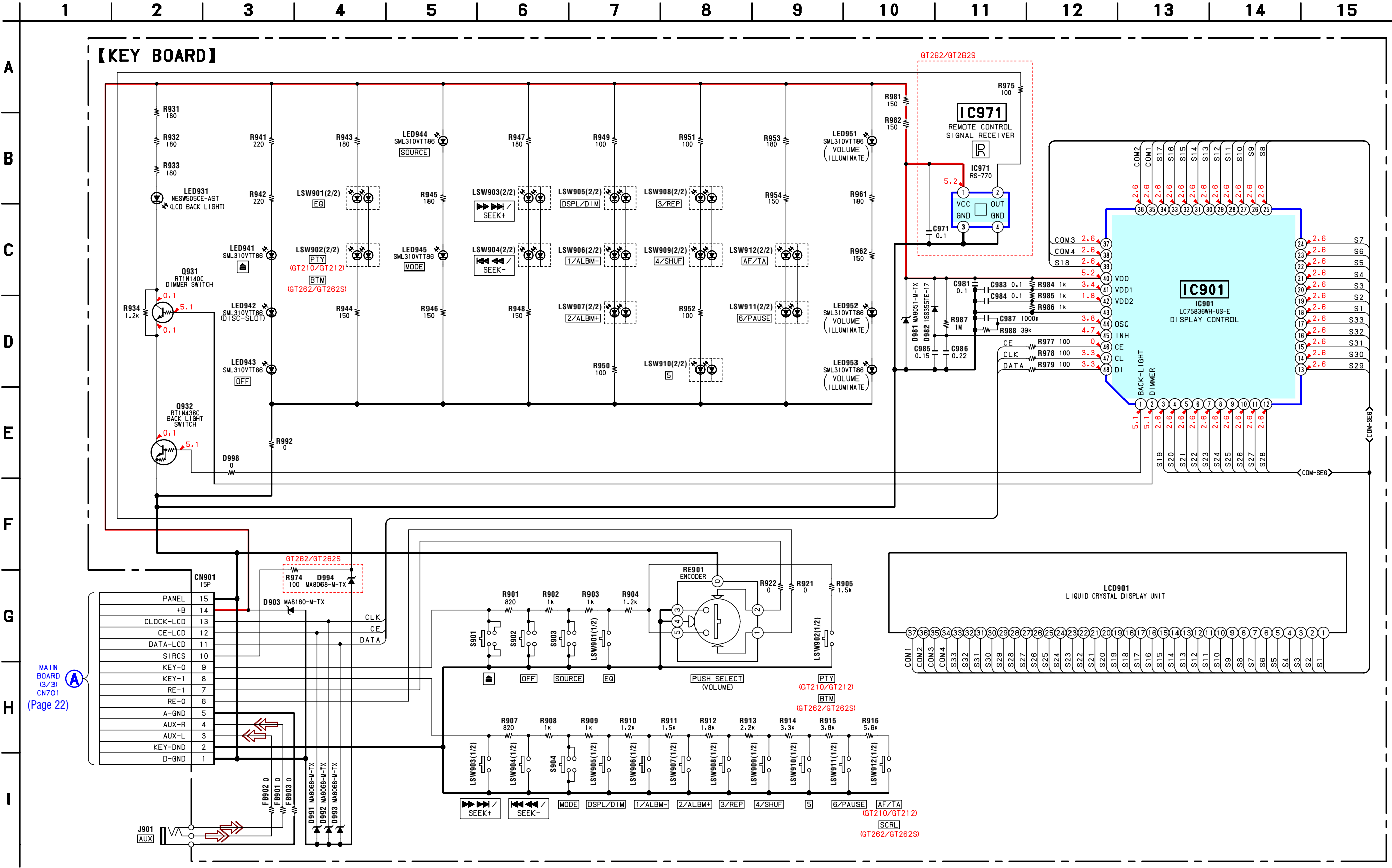
• Refer to page 18 for Waveforms.

• Refer to page 27 for IC Pin Descriptions.



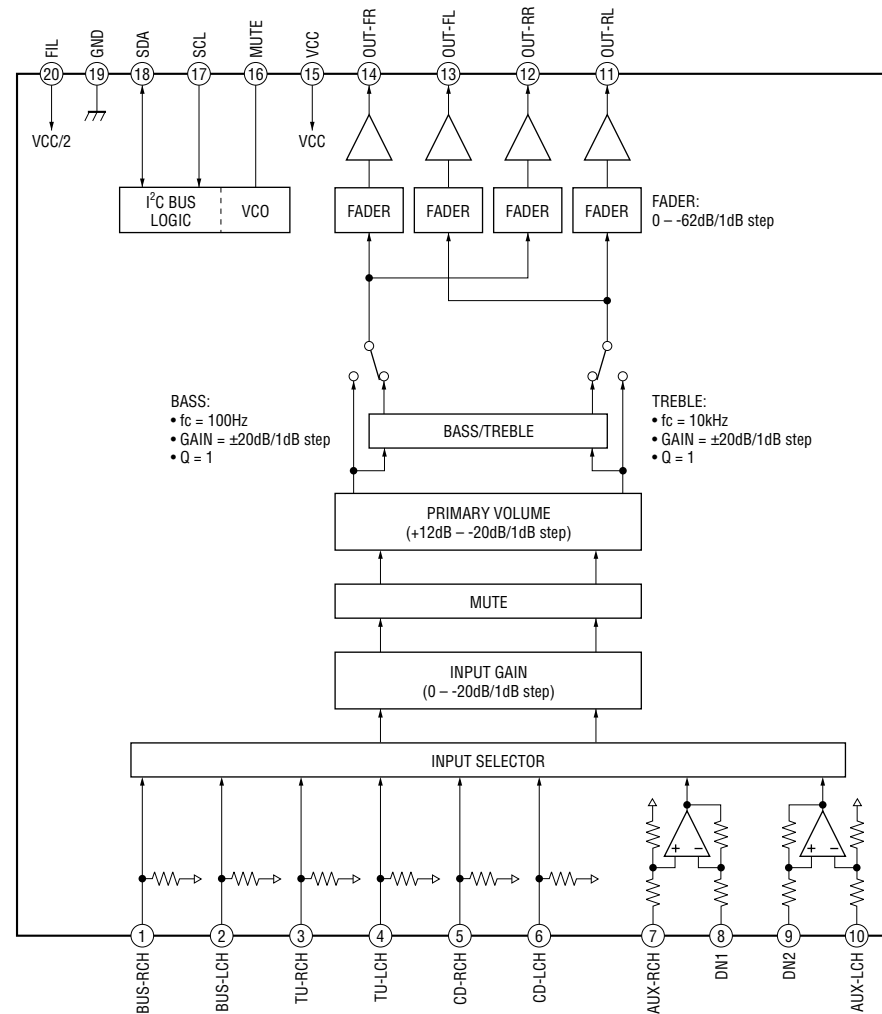


4-8. SCHEMATIC DIAGRAM — KEY SECTION —

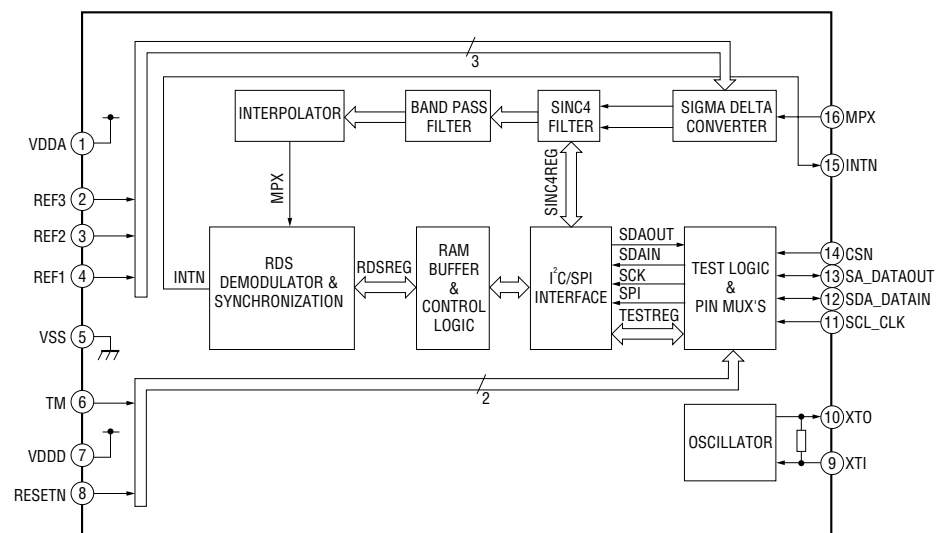


• IC BLOCK DIAGRAMS

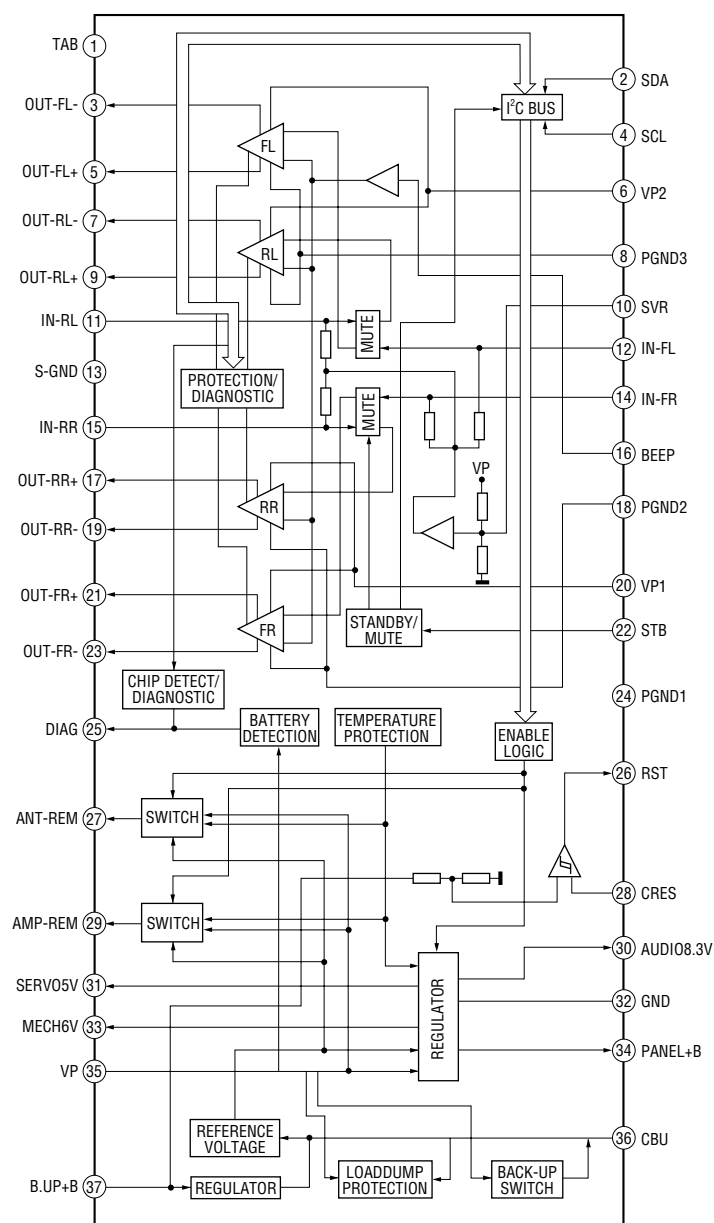
IC401 BD3444FS-E2 (MAIN Board (1/3))



IC51 TDA7333013TR (MAIN Board (1/3))



IC750 TDA8588BJ/N2/R1 (GT262/GT262S) (MAIN Board (2/3))
IC750 TDA8589BJ/N2/R1 (GT210/GT212) (MAIN Board (2/3))



• IC PIN DESCRIPTIONS

• IC501 MB90F045PF-G-9014-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-OUT SEL	I	Blackout existence distinction signal input (L: blackout none, H: blackout)
5	BEEP	O	BEEP signal output
6	CYRIL_SEL	I	Distinction pin for Cyril word. (L: not for the Kiril word, H: for the Kiril word)
7	NOSE_SW	I	Front panel detaching detection signal input (L: Panel on, H: Panel off)
8	DIAG	I	Status signal input from power amplifier.
9	VOLATT	O	Electronic volume attenuate control signal output.
10	NCO	O	Not used. (Open)
11	VSS	—	Ground
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output
14	ILLUMI_SEL1	I	Illumination voltage setting pin
15	ILLUMI_SEL2	I	Illumination voltage setting pin
16, 17	NCO	O	Not used. (Open)
18 to 20	NCO	O	Not used. (Open)
21, 22	NCO	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	LCD_CE	O	LCD driver chip enable signal output
28	LCD_SO	O	LCD driver serial data signal output
29	LCD_SCK	O	LCD driver serial clock signal output
30	RDS ON	O	RDS ON signal output
31	RE-IN0	I	Rotary encoder signal input 0
32	RE-IN1	I	Rotary encoder signal input 1
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 Not used in this set. (Pull up)
44 to 48	NCO	O	Not used. (Open)
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
53	TU_ATTIN	I	Tuner mute zero cross detect signal input
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

CDX-GT210/GT212/GT262/GT262S

Pin No.	Pin Name	I/O	Pin Description
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	CODEC_SEL	I	Codec select signal input (H: MP3, L: non-MP3)
62	KEYSEL	I	6key/8key distinction signal input (H: 8key, L: 6key)
63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input
65 to 67	NCO	O	Not used. (Open)
68	FLASH_W	I	Memory mode select signal input Not used in this set. (Pull up)
69, 70	NCO	O	Not used. (Open)
71	RC_IN1	I	Rotary commander shift key signal input Not used in this set. (Pull up)
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	NCO	O	Not used. (Open)
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	DEMOSEL	I	DEMO select signal input (H: DEMO on, L: DEMO off)
86	ATT	O	Audio mute control signal output
87	BUSON	O	BUS ON signal output
88	SYSRST	O	System reset signal output
89	NCO	O	Not used. (Open)
90, 91	NCO	O	Not used. (Open)
92	NCO	O	Not used. (Open)
93	Z-MUTE	I	CD zero cross mute detect signal input
94, 95	NCO	O	Not used. (Open)
96	MO-DISP	I	Motion display select signal input (H: Motion display on, L: Motion display off)
97	DIM_SEL	I	Dimmer select signal input Not used in this set. (Pull down)
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	COL_SW	I	Illumination color select signal input Not used in this set. (Pull down)

SECTION 5

EXPLODED VIEWS

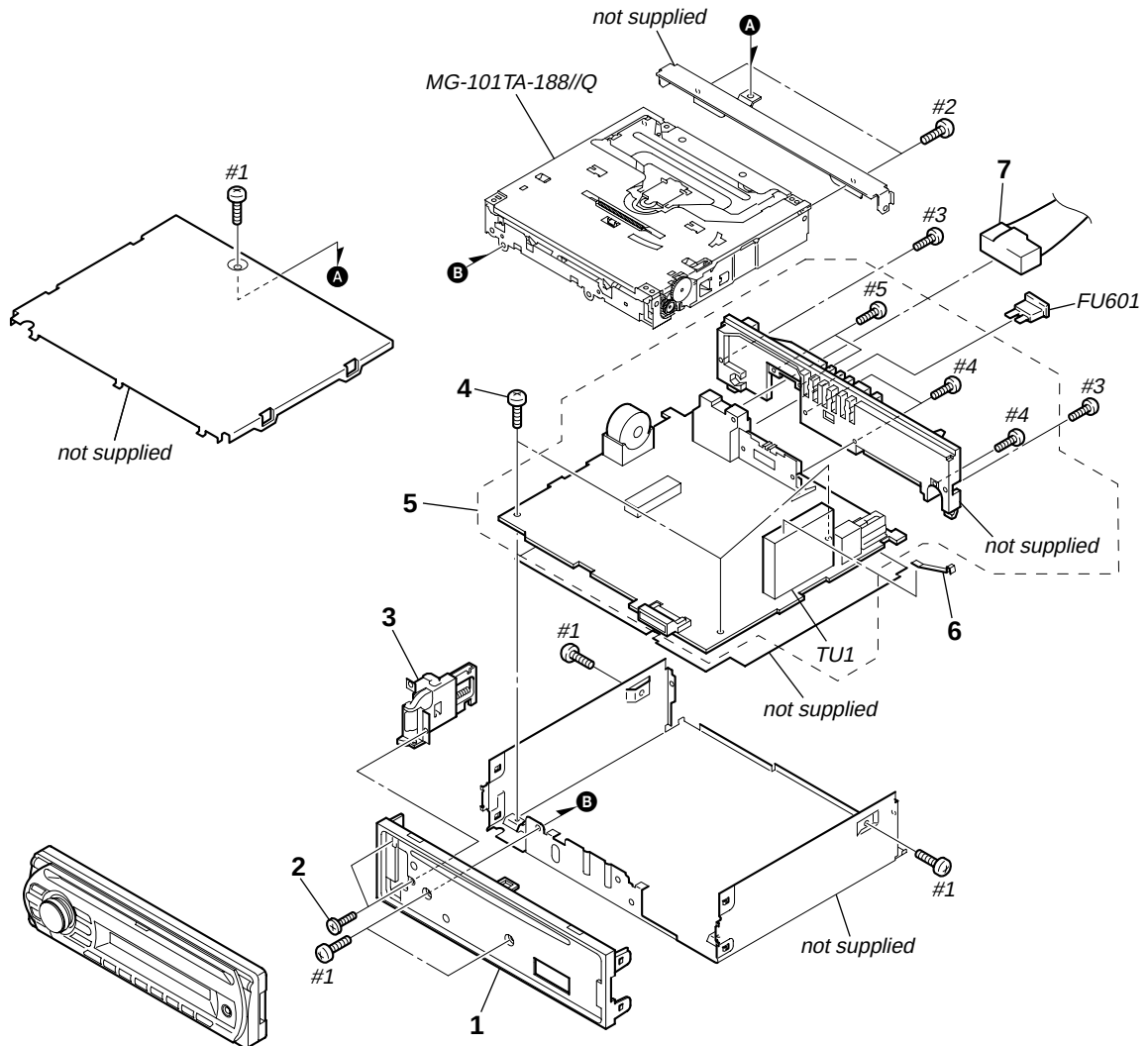
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- XX and -X mean standardized parts, so they may have some difference from the original one.

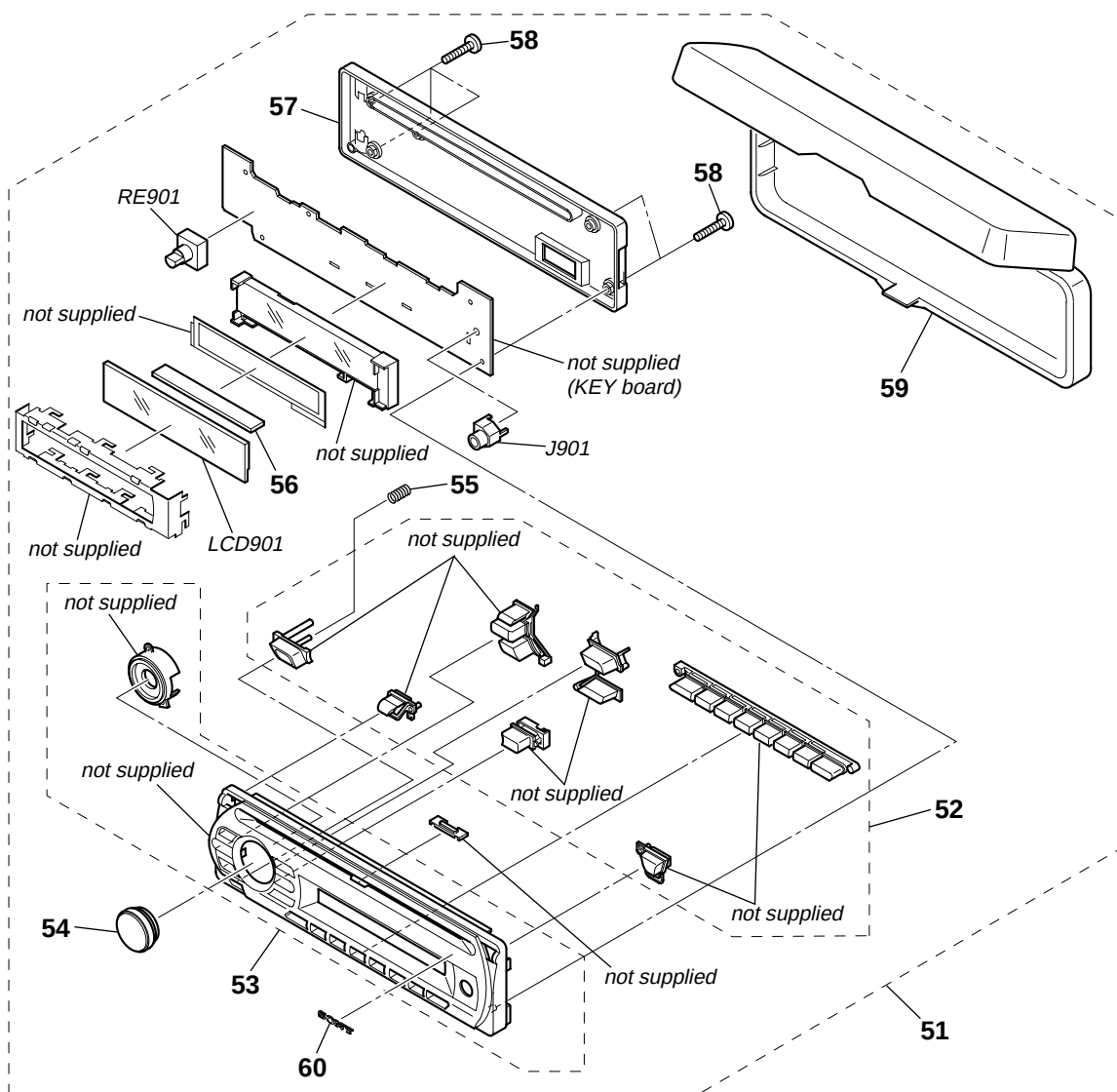
- Color Indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE) ... (RED)
Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
EA : Saudi Arabia model
IND : Indian model
RU : Russia model

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

5-1. MAIN SECTION

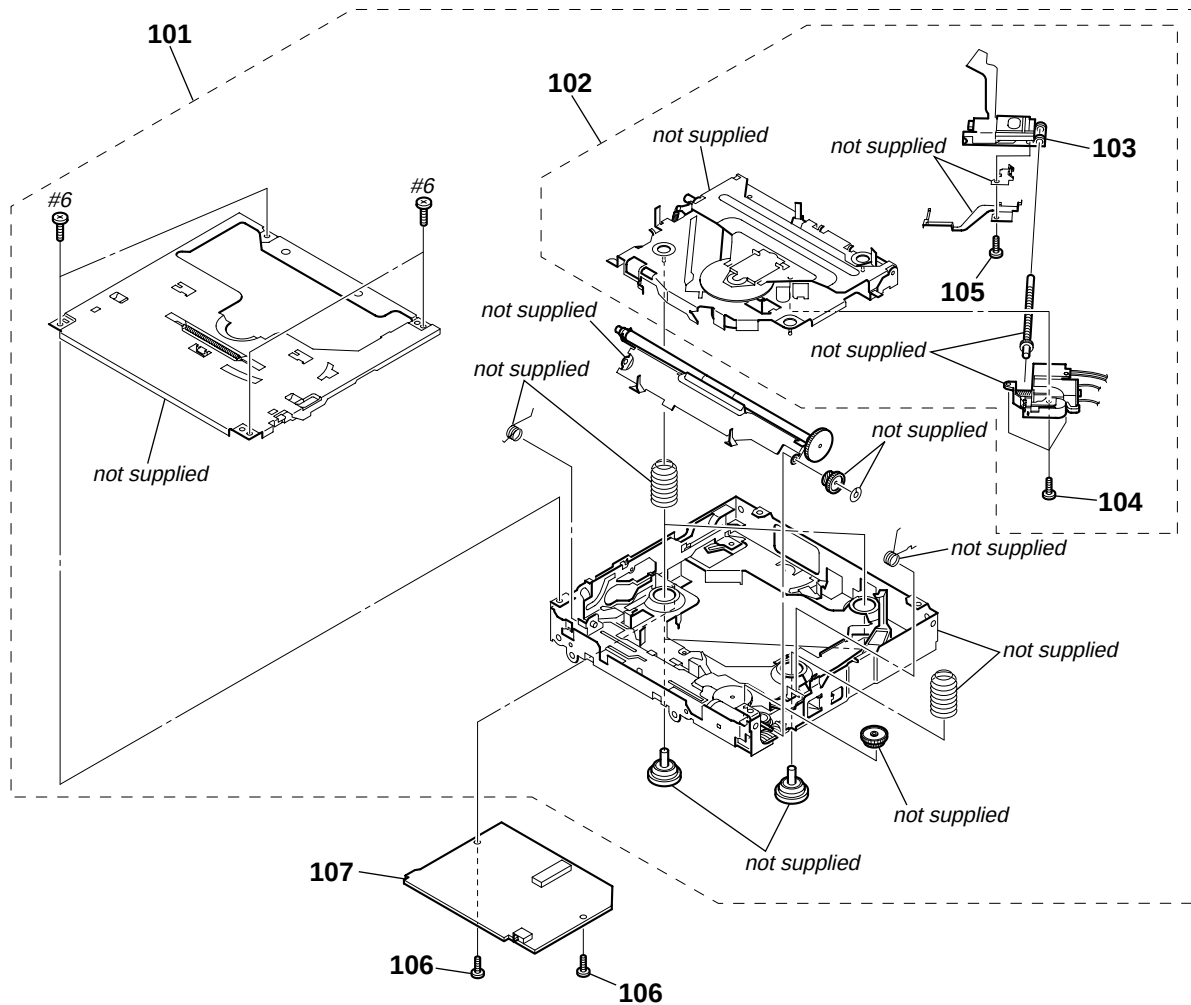


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2149-122-2	PANEL (LCD) ASSY, SUB		7	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
2	3-042-244-11	SCREW (T)		7	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
3	X-2108-670-1	LOCK ASSY (S)		FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
4	2-050-124-01	SCREW +BTT 2.6X5		TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT262/GT262S)	
5	A-1204-657-A	MAIN BOARD, COMPLETE (GT210:AEP,UK/GT212:AEP,UK)		TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT210/GT212)	
5	A-1204-930-A	MAIN BOARD, COMPLETE (GT262:IND/GT262S)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	A-1205-059-A	MAIN BOARD, COMPLETE (GT262:EA)		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1221-694-A	MAIN BOARD, COMPLETE (GT210:RU/GT212:RU)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
6	2-021-848-01	SHEET (TU), GROUND		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
7	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	



5-3. CD MECHANISM SECTION (MG-101TA-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-1177-201-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

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
- 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.

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

- Abbreviation
EA : Saudi Arabia model
IND : Indian model
RU : Russia model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****					
	1-780-433-11	CONDUCTIVE BOARD, CONNECTION		LED943	8-719-053-09	LED SML-310VTT86 (OFF)	
		< CAPACITOR >		LED944	8-719-053-09	LED SML-310VTT86 (SOURCE)	
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V (GT262/GT262S)		LED945	8-719-053-09	LED SML-310VTT86 (MODE)	
C981	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED951	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
C983	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED952	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
C984	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V					
C985	1-131-664-11	CERAMIC CHIP 0.15uF 10% 10V		LED953	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)	
						< SWITCH >	
C986	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V		LSW901	1-786-805-12	SWITCH, TACTILE (WITH LED) (EQ)	
C987	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED) (PTY) (GT210/GT212)	
		< CONNECTOR >		LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED) (BTM) (GT262/GT262S)	
CN901	1-819-758-12	PLUG, CONNECTOR 15P		LSW903	1-786-805-12	SWITCH, TACTILE (WITH LED) (▶▶▶▶/SEEK+)	
		< DIODE >		LSW904	1-786-805-12	SWITCH, TACTILE (WITH LED) (◀◀◀◀/SEEK-)	
D903	8-719-057-80	DIODE MA8180-M-TX		LSW905	1-786-805-12	SWITCH, TACTILE (WITH LED) (DSPL/DIM)	
D981	8-719-420-90	DIODE MA8051-M		LSW906	1-786-805-12	SWITCH, TACTILE (WITH LED) (1/ALBM -)	
D982	8-719-988-61	DIODE 1SS355TE-17		LSW907	1-786-805-12	SWITCH, TACTILE (WITH LED) (2/ALBM +)	
D991	8-719-977-12	DIODE DTZ6.8B		LSW908	1-786-805-12	SWITCH, TACTILE (WITH LED) (3/REP)	
D992	8-719-977-12	DIODE DTZ6.8B		LSW909	1-786-805-12	SWITCH, TACTILE (WITH LED) (4/SHUF)	
D993	8-719-977-12	DIODE DTZ6.8B		LSW910	1-786-805-12	SWITCH, TACTILE (WITH LED) (5)	
D994	8-719-977-12	DIODE DTZ6.8B (GT262/GT262S)		LSW911	1-786-805-12	SWITCH, TACTILE (WITH LED) (6/PAUSE)	
D998	1-216-295-11	SHORT CHIP 0		LSW912	1-786-805-12	SWITCH, TACTILE (WITH LED) (AF/TA) (GT210/GT212)	
		< JUMPER RESISTOR >		LSW912	1-786-805-12	SWITCH, TACTILE (WITH LED) (SCRL) (GT262/GT262S)	
FB901	1-216-864-11	SHORT CHIP 0				< TRANSISTOR >	
FB902	1-216-864-11	SHORT CHIP 0		Q931	8-729-027-44	TRANSISTOR DTC114TKA-T146	
FB903	1-216-295-11	SHORT CHIP 0		Q932	6-551-444-01	TRANSISTOR RT1N436C-TP-1	
		< IC >				< RESISTOR >	
IC901	6-710-047-01	IC LC75836WH-US-E		R901	1-216-820-11	METAL CHIP 820 5% 1/10W	
IC971	6-600-163-01	IC RS-770 (IR) (GT262/GT262S)		R902	1-216-821-11	METAL CHIP 1K 5% 1/10W	
		< LIQUID CRYSTAL DISPLAY >		R903	1-216-821-11	METAL CHIP 1K 5% 1/10W	
LCD901	1-802-231-11	DISPLAY PANEL, LIQUID CRYSTAL		R904	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
		< DIODE >		R905	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
LED931	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT)		R907	1-216-820-11	METAL CHIP 820 5% 1/10W	
LED941	8-719-053-09	LED SML-310VTT86 (Δ)		R908	1-216-821-11	METAL CHIP 1K 5% 1/10W	
LED942	8-719-053-09	LED SML-310VTT86 (DISC-SLOT)		R909	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R910	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	
				R911	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
				R912	1-216-824-11	METAL CHIP 1.8K 5% 1/10W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R913	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		A-1204-657-A	MAIN BOARD, COMPLETE	(GT210:AEP,UK/GT212:AEP,UK)		
R914	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		A-1204-930-A	MAIN BOARD, COMPLETE	(GT262:IND/GT262S)		
R915	1-216-828-11	METAL CHIP	3.9K	5%	1/10W		A-1205-059-A	MAIN BOARD, COMPLETE	(GT262:EA)		
R916	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		A-1221-694-A	MAIN BOARD, COMPLETE	(GT210:RU/GT212:RU)		
R921	1-216-295-11	SHORT CHIP	0						*****		
R922	1-216-295-11	SHORT CHIP	0								
R931	1-216-812-11	METAL CHIP	180	5%	1/10W		7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
R932	1-216-812-11	METAL CHIP	180	5%	1/10W		7-685-794-09	SCREW +PTT 2.6X10 (S)			
R933	1-216-812-11	METAL CHIP	180	5%	1/10W						
R934	1-216-822-11	METAL CHIP	1.2K	5%	1/10W				< CAPACITOR >		
R941	1-216-813-11	METAL CHIP	220	5%	1/10W		C1	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V
R942	1-216-813-11	METAL CHIP	220	5%	1/10W				(GT210/GT212)		
R943	1-216-812-11	METAL CHIP	180	5%	1/10W		C2	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V
R944	1-216-811-11	METAL CHIP	150	5%	1/10W				(GT210/GT212)		
R945	1-216-812-11	METAL CHIP	180	5%	1/10W		C3	1-126-963-11	ELECT	4.7uF	20% 50V
R946	1-216-811-11	METAL CHIP	150	5%	1/10W				(GT210/GT212)		
R947	1-216-812-11	METAL CHIP	180	5%	1/10W		C4	1-126-947-11	ELECT	47uF	20% 35V
R948	1-216-811-11	METAL CHIP	150	5%	1/10W		C5	1-126-947-11	ELECT	47uF	20% 35V
R949	1-216-809-11	METAL CHIP	100	5%	1/10W						
R950	1-216-809-11	METAL CHIP	100	5%	1/10W		C6	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
R951	1-216-809-11	METAL CHIP	100	5%	1/10W		C7	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
R952	1-216-809-11	METAL CHIP	100	5%	1/10W		C8	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
R953	1-216-812-11	METAL CHIP	180	5%	1/10W				(GT262/GT262S)		
R954	1-216-811-11	METAL CHIP	150	5%	1/10W		C12	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
R961	1-216-812-11	METAL CHIP	180	5%	1/10W		C13	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
R962	1-216-811-11	METAL CHIP	150	5%	1/10W						
R974	1-216-809-11	METAL CHIP	100	5%	1/10W		C51	1-126-947-11	ELECT	47uF	20% 35V
					(GT262/GT262S)				(GT210/GT212)		
R975	1-216-809-11	METAL CHIP	100	5%	1/10W		C53	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
					(GT262/GT262S)				(GT210/GT212)		
R977	1-216-809-11	METAL CHIP	100	5%	1/10W		C54	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
					(GT262/GT262S)				(GT210/GT212)		
R978	1-216-809-11	METAL CHIP	100	5%	1/10W		C55	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
R979	1-216-809-11	METAL CHIP	100	5%	1/10W				(GT210/GT212)		
R981	1-216-811-11	METAL CHIP	150	5%	1/10W		C56	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
R982	1-216-811-11	METAL CHIP	150	5%	1/10W				(GT210/GT212)		
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W		C57	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
									(GT210/GT212)		
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W		C58	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W				(GT210/GT212)		
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W		C59	1-164-237-11	CERAMIC CHIP	16PF	5% 50V
R988	1-216-840-11	METAL CHIP	39K	5%	1/10W				(GT210/GT212)		
R992	1-216-864-11	SHORT CHIP	0				C60	1-162-916-11	CERAMIC CHIP	12PF	5% 50V
									(GT210/GT212)		
		< ROTARY ENCODER >					C62	1-162-959-11	CERAMIC CHIP	330PF	5% 50V
									(GT210/GT212)		
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))					C63	1-162-923-11	CERAMIC CHIP	47PF	5% 50V
									(GT210/GT212)		
		< SWITCH >					C64	1-162-923-11	CERAMIC CHIP	47PF	5% 50V
									(GT210/GT212)		
S901	1-786-653-11	SWITCH, TACTILE (▲)					C301	1-124-248-00	ELECT	22uF	20% 25V
S902	1-786-653-11	SWITCH, TACTILE (OFF)					C302	1-124-584-00	ELECT	100uF	20% 10V
S903	1-786-653-11	SWITCH, TACTILE (SOURCE)					C305	1-124-584-00	ELECT	100uF	20% 10V
S904	1-786-653-11	SWITCH, TACTILE (MODE)									

							C306	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
							C308	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
							C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V
							C310	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V
							C312	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
							C343	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
							C401	1-126-964-11	ELECT	10uF	20% 50V
							C404	1-127-715-11	CERAMIC CHIP	0.22uF	10% 16V
							C405	1-127-715-11	CERAMIC CHIP	0.22uF	10% 16V
							C406	1-126-160-11	ELECT	1uF	20% 50V
							C407	1-126-160-11	ELECT	1uF	20% 50V

CDX-GT210/GT212/GT262/GT262S

MAIN

Ref. No.	Part No.	Description			Remark
C412	1-126-934-11	ELECT	220uF	20%	16V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C422	1-216-864-11	SHORT CHIP	0		
C423	1-216-864-11	SHORT CHIP	0		
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C455	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C461	1-126-964-11	ELECT	10uF	20%	50V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C479	1-124-589-11	ELECT	47uF	20%	16V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-124-584-00	ELECT	100uF	20%	10V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C509	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-124-584-00	ELECT	100uF	20%	10V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C516	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-131-868-81	ELECT	3300uF	20%	16V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C617	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-126-916-11	ELECT	1000uF	20%	6.3V
C623	1-126-916-11	ELECT	1000uF	20%	6.3V
C631	1-126-160-11	ELECT	1uF	20%	50V
C750	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C751	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C753	1-128-551-11	ELECT	22uF	20%	63V
C754	1-124-257-00	ELECT	2.2uF	20%	50V
C755	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C756	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C758	1-124-261-00	ELECT	10uF	20%	50V
C763	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C764	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C765	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C769	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C770	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C771	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C774	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C775	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C776	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C902	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C903	1-126-961-11	ELECT	2.2uF	20%	50V
C905	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C917	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C918	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
< CONNECTOR >					
CN601	1-774-701-21	PIN, CONNECTOR	16P		
CN701	1-819-773-13	SOCKET, CONNECTOR	15P		
CNP301	1-820-611-11	CONNECTOR, BOARD TO BOARD	28P		
< DIODE >					
D1	6-501-168-01	DIODE	UDZW-TE17-5.6B	(GT262/GT262S)	
D1	8-719-977-03	DIODE	DTZ5.6B	(GT210/GT212)	
D479	6-501-193-01	DIODE	1SS355WTE-17	(GT262/GT262S)	
D479	8-719-988-61	DIODE	1SS355TE-17	(GT210/GT212)	
D502	8-719-060-48	DIODE	RB751V-40TE-17	(GT262/GT262S)	
D503	6-501-193-01	DIODE	1SS355WTE-17	(GT262/GT262S)	
D503	8-719-988-61	DIODE	1SS355TE-17	(GT210/GT212)	
D510	6-501-013-01	DIODE	BAT54ALT1G		
D511	6-500-335-01	DIODE	MC2838-T112-1		
D512	6-501-051-01	DIODE	BAT54CLT1G		
D580	6-501-171-01	DIODE	UDZW-TE17-7.5B	(GT262/GT262S)	
D580	8-719-422-76	DIODE	MA8075-M	(GT210/GT212)	
D581	6-501-180-01	DIODE	UDZW-TE17-18B	(GT262/GT262S)	
D581	8-719-057-80	DIODE	MA8180-M-TX	(GT210/GT212)	
D601	6-501-571-01	DIODE	1N5404-C311-3		
D609	6-501-170-01	DIODE	UDZW-TE17-6.8B	(GT262/GT262S)	
D609	8-719-977-12	DIODE	DTZ6.8B	(GT210/GT212)	
D617	6-501-180-01	DIODE	UDZW-TE17-18B	(GT262/GT262S)	
D617	8-719-057-80	DIODE	MA8180-M-TX	(GT210/GT212)	
D651	8-719-057-80	DIODE	MA8180-M-TX	(GT210/GT212)	
D704	6-501-170-01	DIODE	UDZW-TE17-6.8B	(GT262/GT262S)	
D704	8-719-977-12	DIODE	DTZ6.8B	(GT210/GT212)	
D719	6-501-180-01	DIODE	UDZW-TE17-18B	(GT262/GT262S)	
D719	8-719-057-80	DIODE	MA8180-M-TX	(GT210/GT212)	
D751	6-501-362-01	DIODE	1A4-TA26		
D752	6-501-362-01	DIODE	1A4-TA26		
D753	6-501-362-01	DIODE	1A4-TA26		
D754	6-501-362-01	DIODE	1A4-TA26		
D755	6-501-362-01	DIODE	1A4-TA26		
D756	6-501-362-01	DIODE	1A4-TA26		
D757	6-501-362-01	DIODE	1A4-TA26		
D758	6-501-362-01	DIODE	1A4-TA26		
D760	6-501-362-01	DIODE	1A4-TA26		
D762	6-501-362-01	DIODE	1A4-TA26		
D903	6-501-170-01	DIODE	UDZW-TE17-6.8B	(GT262/GT262S)	
D903	8-719-977-12	DIODE	DTZ6.8B	(GT210/GT212)	
< FERRITE BEAD >					
FB1	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB302	1-216-864-11	SHORT CHIP	0		
FB303	1-216-864-11	SHORT CHIP	0		
FB304	1-216-295-11	SHORT CHIP	0		
FB305	1-216-295-11	SHORT CHIP	0		
FB307	1-216-864-11	SHORT CHIP	0		
FB308	1-216-295-11	SHORT CHIP	0		
FB309	1-216-864-11	SHORT CHIP	0		
FB310	1-216-864-11	SHORT CHIP	0		
FB501	1-216-295-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
FB604	1-500-245-11	INDUCTOR, FERRITE BEAD		< RESISTOR >			
FB605	1-216-864-11	SHORT CHIP 0		R1	1-216-821-11	METAL CHIP 1K 5%	1/10W
FB606	1-216-864-11	SHORT CHIP 0		R2	1-414-595-11	INDUCTOR, FERRITE BEAD	
< IC >				R3	1-414-595-11	INDUCTOR, FERRITE BEAD	
IC51	6-803-747-01	IC TDA7333013TR (GT210/GT212)		R4	1-216-839-11	METAL CHIP 33K 5%	1/10W
IC401	6-710-048-01	IC BD3444FS-E2		R5	1-216-843-11	METAL CHIP 68K 5%	1/10W
IC501	6-806-944-01	IC MB90F045PF-G-9014-SPE1		R6	1-216-839-11	METAL CHIP 33K 5%	1/10W
IC602	6-709-458-01	IC XC61CN2802NR		(GT210/GT212)			
IC750	6-705-360-02	IC TDA8588BJ/N2/R1 (GT262/GT262S)		R7	1-216-843-11	METAL CHIP 68K 5%	1/10W
				(GT210/GT212)			
IC750	6-705-363-02	IC TDA8589BJ/N2/R1 (GT210/GT212)		R8	1-216-839-11	METAL CHIP 33K 5%	1/10W
IC901	8-759-681-42	IC NJM12902V(Te2)		R9	1-216-843-11	METAL CHIP 68K 5%	1/10W
< JACK >				R12	1-414-595-11	INDUCTOR, FERRITE BEAD	
J1	1-815-185-13	JACK (ANTENNA)		R13	1-414-595-11	INDUCTOR, FERRITE BEAD	
< JUMPER RESISTOR >				R29	1-216-809-11	METAL CHIP 100 5%	1/10W
JC1	1-216-864-11	SHORT CHIP 0		(GT210/GT212)			
JC501	1-216-864-11	SHORT CHIP 0		R51	1-216-797-11	METAL CHIP 10 5%	1/10W
JC504	1-216-864-11	SHORT CHIP 0		(GT210/GT212)			
JC527	1-216-821-11	METAL CHIP 1K 5%	1/10W	R52	1-216-803-11	METAL CHIP 33 5%	1/10W
JC533	1-216-864-11	SHORT CHIP 0		(GT210/GT212)			
JC681	1-216-864-11	SHORT CHIP 0		R53	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)	
JC753	1-216-296-11	SHORT CHIP 0		R54	1-216-845-11	METAL CHIP 100K 5%	1/10W
JC754	1-216-296-11	SHORT CHIP 0		(GT210/GT212)			
JC755	1-216-296-11	SHORT CHIP 0		R55	1-216-864-11	SHORT CHIP 0 (GT210/GT212)	
JC756	1-216-864-11	SHORT CHIP 0		R56	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)	
JC795	1-216-864-11	SHORT CHIP 0		R57	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)	
JC796	1-216-864-11	SHORT CHIP 0		R58	1-216-864-11	SHORT CHIP 0 (GT210/GT212)	
< RESISTOR >				R59	1-216-833-11	METAL CHIP 10K 5%	1/10W
JW52	1-249-425-11	CARBON 4.7K 5%	1/4W	(GT210/GT212)			
< COIL >				R60	1-216-833-11	METAL CHIP 10K 5%	1/10W
L1	1-469-844-11	INDUCTOR 2.2uH		(GT210/GT212)			
L51	1-216-295-11	SHORT CHIP 0 (GT210/GT212)		R61	1-216-821-11	METAL CHIP 1K 5%	1/10W
L301	1-216-295-11	SHORT CHIP 0		(GT210/GT212)			
L501	1-216-295-11	SHORT CHIP 0		R301	1-216-821-11	METAL CHIP 1K 5%	1/10W
L601	1-456-617-11	COIL, CHOKE		R302	1-216-821-11	METAL CHIP 1K 5%	1/10W
< TRANSISTOR >				R401	1-216-797-11	METAL CHIP 10 5%	1/10W
Q1	6-551-431-01	TRANSISTOR 2SC6027T100-QR		R402	1-216-864-11	SHORT CHIP 0	
Q22	1-801-806-11	TRANSISTOR DTC144EKA (GT210/GT212)		R403	1-216-864-11	SHORT CHIP 0	
Q51	8-729-600-22	TRANSISTOR 2SA1235-F (GT210/GT212)		R406	1-216-809-11	METAL CHIP 100 5%	1/10W
Q431	8-729-027-44	TRANSISTOR DTC114TKA-T146		R407	1-216-809-11	METAL CHIP 100 5%	1/10W
Q441	8-729-027-44	TRANSISTOR DTC114TKA-T146		R408	1-216-809-11	METAL CHIP 100 5%	1/10W
Q451	8-729-027-44	TRANSISTOR DTC114TKA-T146		R409	1-216-809-11	METAL CHIP 100 5%	1/10W
Q461	8-729-027-44	TRANSISTOR DTC114TKA-T146		R431	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q478	8-729-027-43	TRANSISTOR DTC114EKA-T146		R432	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146		R441	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q580	8-729-027-43	TRANSISTOR DTC114EKA-T146		R442	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q581	1-801-806-11	TRANSISTOR DTC144EKA		R451	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q582	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R452	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q631	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R461	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q651	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (GT210/GT212)		R462	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146		R479	1-216-805-11	METAL CHIP 47 5%	1/10W
				R502	1-216-821-11	METAL CHIP 1K 5%	1/10W
				R503	1-216-821-11	METAL CHIP 1K 5%	1/10W
				R504	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
				R505	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
				R506	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R507	1-216-845-11	METAL CHIP 100K 5%	1/10W
				(GT262/GT262S)			
				R508	1-216-864-11	SHORT CHIP 0	

CDX-GT210/GT212/GT262/GT262S

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MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R509	1-216-812-11	METAL CHIP	180	5%	1/10W	R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-821-11	METAL CHIP	1K	5%	1/10W	R578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W	R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W	R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W	R584	1-216-841-11	METAL CHIP	47K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W	R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R518	1-216-864-11	SHORT CHIP	0			R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W	R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R633	1-216-841-11	METAL CHIP	47K	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W	R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W	R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W	R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W						(GT210/GT212)
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W	R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W						(GT210/GT212)
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W	R653	1-216-833-11	METAL CHIP	10K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W						(GT210/GT212)
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W	R654	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-216-833-11	METAL CHIP	10K	5%	1/10W						(GT210/GT212)
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W	R661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W	R662	1-216-833-11	METAL CHIP	10K	5%	1/10W
R539	1-216-845-11	METAL CHIP	100K	5%	1/10W	R663	1-216-821-11	METAL CHIP	1K	5%	1/10W
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W	R664	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-216-845-11	METAL CHIP	100K	5%	1/10W	R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R542	1-216-864-11	SHORT CHIP	0			R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R543	1-216-821-11	METAL CHIP	1K	5%	1/10W	R673	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W	R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W	R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT262:IND/GT262S)	R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W	R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT262:IND/GT262S)	R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R547	1-216-864-11	SHORT CHIP	0			R681	1-216-864-11	SHORT CHIP	0		
R548	1-216-845-11	METAL CHIP	100K	5%	1/10W	R691	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GT262/GT262S)	R692	1-216-845-11	METAL CHIP	100K	5%	1/10W
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W	R694	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT210/GT212)						(GT210/GT212)
R551	1-216-845-11	METAL CHIP	100K	5%	1/10W	R752	1-216-811-11	METAL CHIP	150	5%	1/10W
					(GT210/GT212/GT262:EA)	R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
R556	1-216-833-11	METAL CHIP	10K	5%	1/10W	R757	1-216-864-11	SHORT CHIP	0		
					(GT262/GT262S)	R901	1-216-817-11	METAL CHIP	470	5%	1/10W
R557	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R902	1-216-817-11	METAL CHIP	470	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W	R903	1-216-834-11	METAL CHIP	12K	5%	1/10W
					(GT262/GT262S)	R904	1-216-834-11	METAL CHIP	12K	5%	1/10W
R559	1-216-845-11	METAL CHIP	100K	5%	1/10W	R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(GT210/GT212)	R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W	R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W	R910	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R564	1-216-845-11	METAL CHIP	100K	5%	1/10W	R911	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(GT210/GT212)	R912	1-216-864-11	SHORT CHIP	0		
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W	R913	1-216-864-11	SHORT CHIP	0		
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W	R914	1-216-825-11	METAL CHIP	2.2K	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						< SWITCH >
					(GT262/GT262S)	S502	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			
R570	1-216-817-11	METAL CHIP	470	5%	1/10W						(GT262:IND/GT262S)
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W						
					(GT210/GT212)						
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W						

Ref. No.	Part No.	Description	Remark
< TUNER UNIT >			
TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT262/GT262S)	
TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT210/GT212)	
< VIBRATOR >			
X51	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz) (GT210/GT212)	
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

A-1177-201-A		SERVO BOARD, COMPLETE	

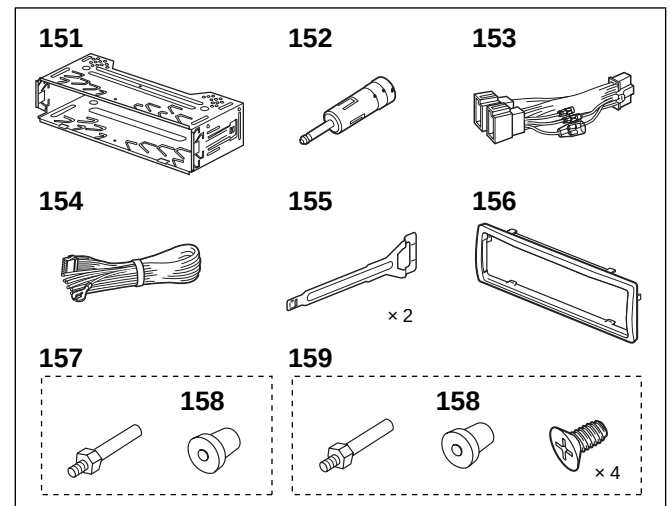
MISCELLANEOUS			

7	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)	
7	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
7	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	

ACCESSORIES			

2-699-134-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (GT210/GT212)		
2-699-134-21	MANUAL, INSTRUCTION (ENGLISH,SPANISH, SIMPLIFIED CHINESE) (GT262:IND/GT262S)		
2-699-134-31	MANUAL, INSTRUCTION (ENGLISH,ARABIC, PERSIAN) (GT262:EA)		
2-699-134-51	MANUAL, INSTRUCTION (RUSSIAN) (GT210:RU/GT212:RU)		
2-699-135-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (GT210/GT212)		
2-699-135-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SIMPLIFIED CHINESE) (GT262:IND/GT262S)		
2-699-135-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC,PERSIAN) (GT262:EA)		
2-699-135-51	MANUAL, INSTRUCTION, INSTALL (RUSSIAN) (GT210:RU/GT212:RU)		
X-2149-228-2	CASE ASSY (for FRONT PANEL)		

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS *****			
151	X-3382-647-1	FRAME ASSY, FITTING	
152	1-465-459-31	ADAPTOR, ANTENNA (GT210/GT212)	
153	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)	
154	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
154	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
155	3-246-471-01	KEY (FRAME)	
156	2-686-803-01	COLLAR	
156	3-255-785-02	COLLAR (1DIN) (for Maruti Suzuki) (GT262:IND)	
157	X-3382-926-1	SCREW ASSY (BS), FITTING (GT210/GT212)	
158	3-349-410-11	BUSHING	
159	X-3381-154-1	SCREW ASSY (BS4), FITTING (GT262/GT262S)	



MEMO

CDX-GT210/GT212/ GT262/GT262S

SONY®

SERVICE MANUAL

Ver. 1.3 2007.03

AEP Model

UK Model

CDX-GT210/GT212

E Model

CDX-GT262/GT262S

Saudi Arabia Model

CDX-GT262

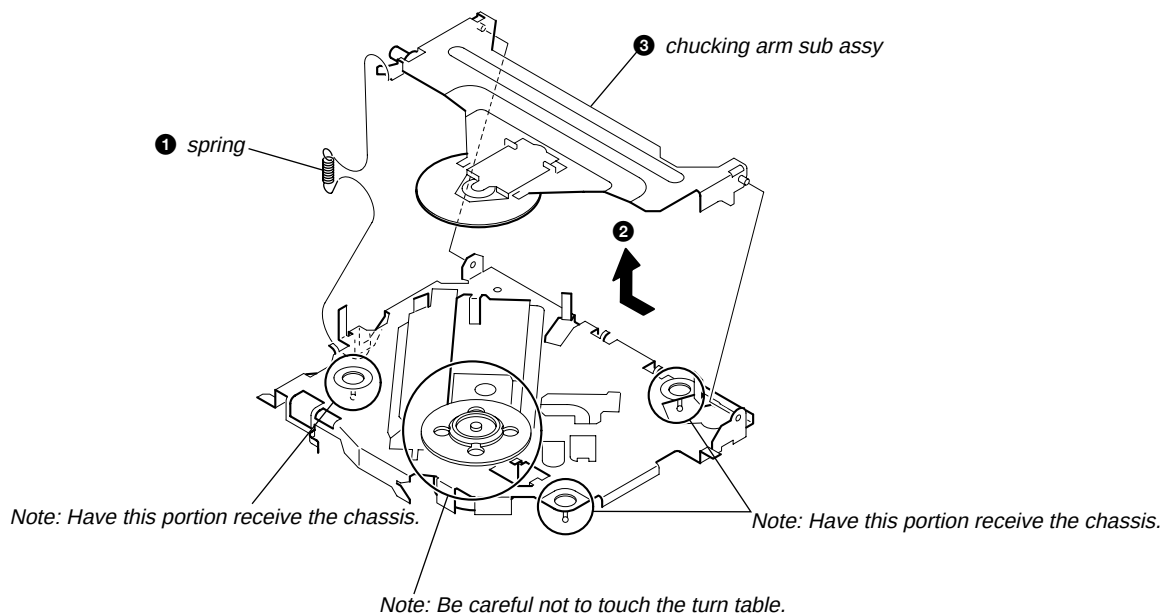
SUPPLEMENT-1

File this supplement with the service manual.

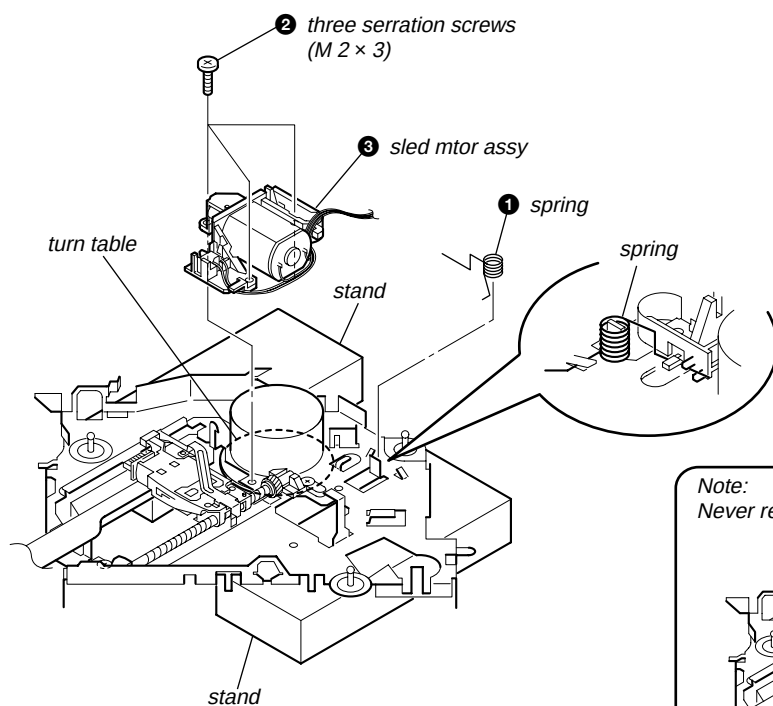
Subject: Notes for removal of the OPTICAL PICK-UP added.

DISASSEMBLY

1. CHUCKING ARM SUB ASSY

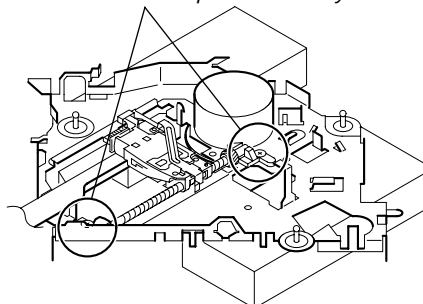


2. SLED MOTOR ASSY

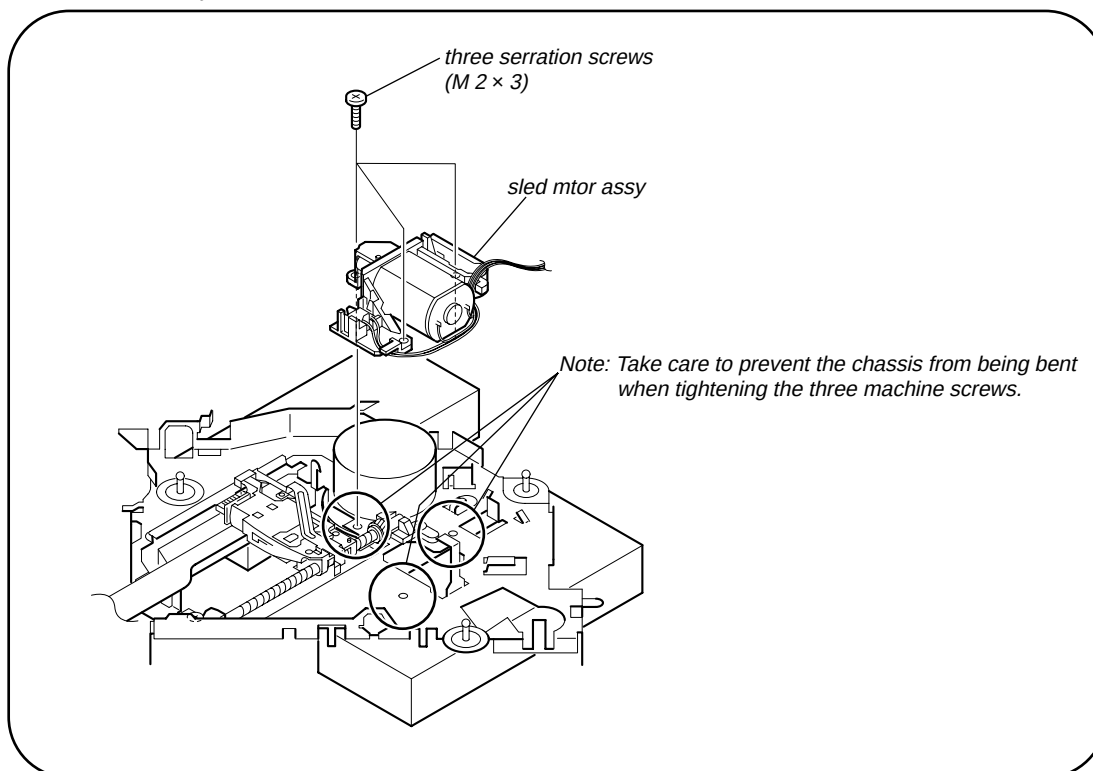


Note: Place the stand with care not to touch the turn table.

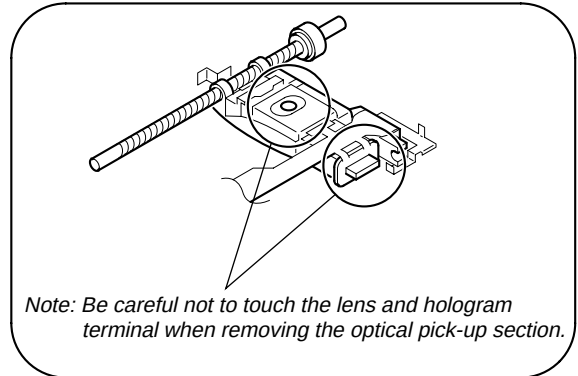
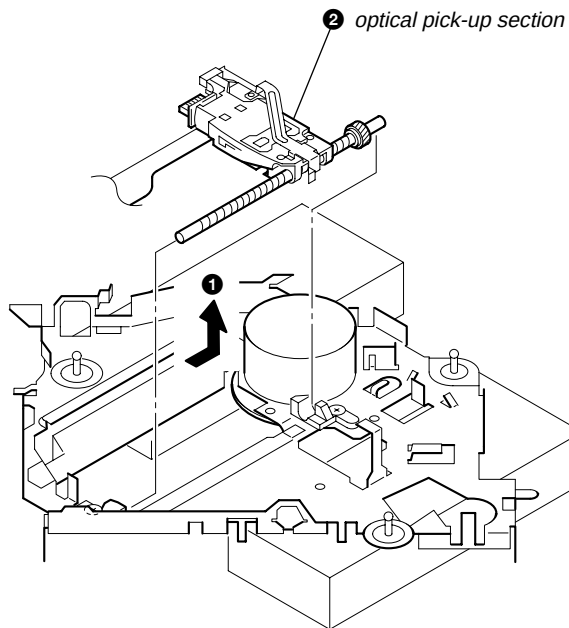
Note:
Never remove these parts since they were adjusted.



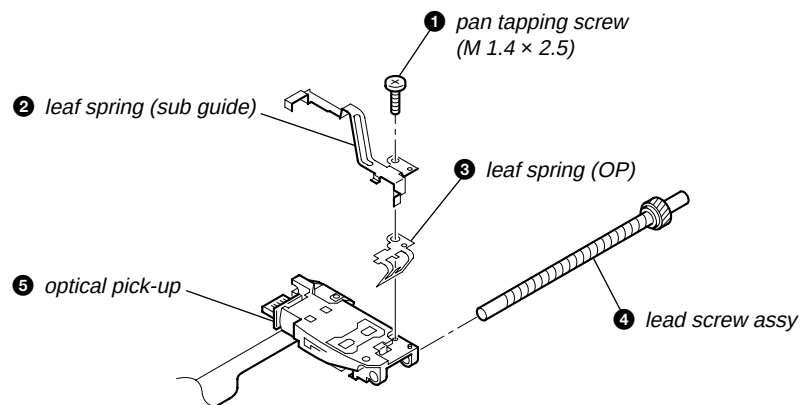
Note for Assembly



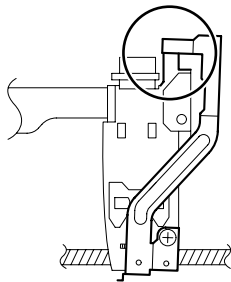
3. OPTICAL PICK-UP SECTION



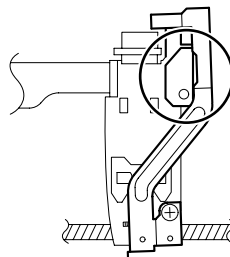
4. OPTICAL PICK-UP



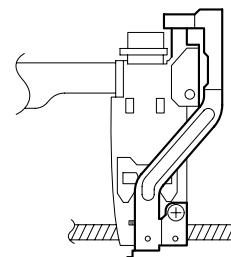
Notes for Assembly



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



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



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

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

[illegible]