

# CDX-GT410U/GT414U

## SERVICE MANUAL

Ver. 1.1 2007.03

AEP Model  
UK Model



(Photo: CDX-GT410U)

- The tuner and CD sections have no adjustments.

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

### SPECIFICATIONS

#### CD player section

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

#### Tuner section

##### FM

Tuning range 87.5 – 108 MHz  
Antenna terminal External antenna 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  
LW: 153 – 279 kHz  
Antenna terminal External antenna connector  
Intermediate frequency 10.7 MHz/450 kHz  
Sensitivity MW: 30  $\mu$ V, LW: 40  $\mu$ V

#### USB player section

Interface USB (Full-speed)  
Maximum current 500 mA

#### Power amplifier section

Outputs Speaker outputs (sure seal connectors)  
Speaker impedance 4 – 8 ohms  
Maximum power output 50 W  $\times$  4 (at 4 ohms)

– Continued on next page –

## FM/MW/LW COMPACT DISC PLAYER

9-887-452-02  
2007C04-1  
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Sony Corporation  
eVehicle Division  
Published by Sony Techno Create Corporation

# SONY®

# CDX-GT410U/GT414U

## General

Outputs	Audio outputs terminal (sub/rear switchable) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal BUS control input terminal BUS audio input terminal Antenna input terminal AUX input jack (stereo mini jack)
Tone controls	Low: $\pm 10$ dB at 60 Hz (XPLOD) Mid: $\pm 10$ dB at 1 kHz (XPLOD) High: $\pm 10$ dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
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	Card remote commander: RM-X151 Parts for installation and connections (1 set) USB cap

*Design and specifications are subject to change without notice.*

*US and foreign patents licensed from Dolby Laboratories.*

## 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)

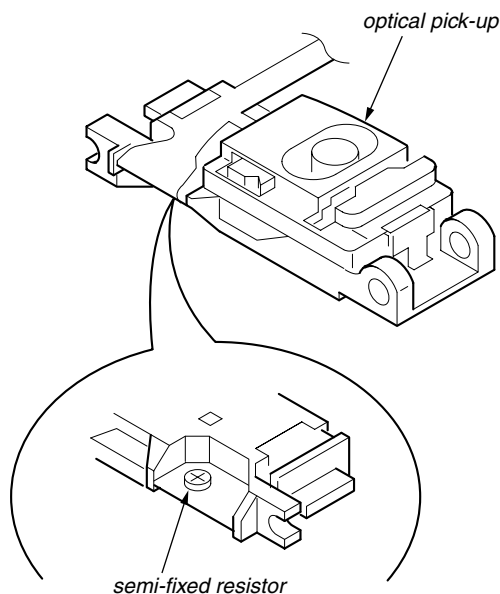
PATD-012 (Part No. 4-225-203-01)

## 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.

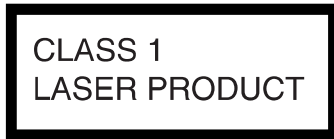
Never turn the semi-fixed resistor located at the side of optical pick-up block.



## 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.

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 playback**

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

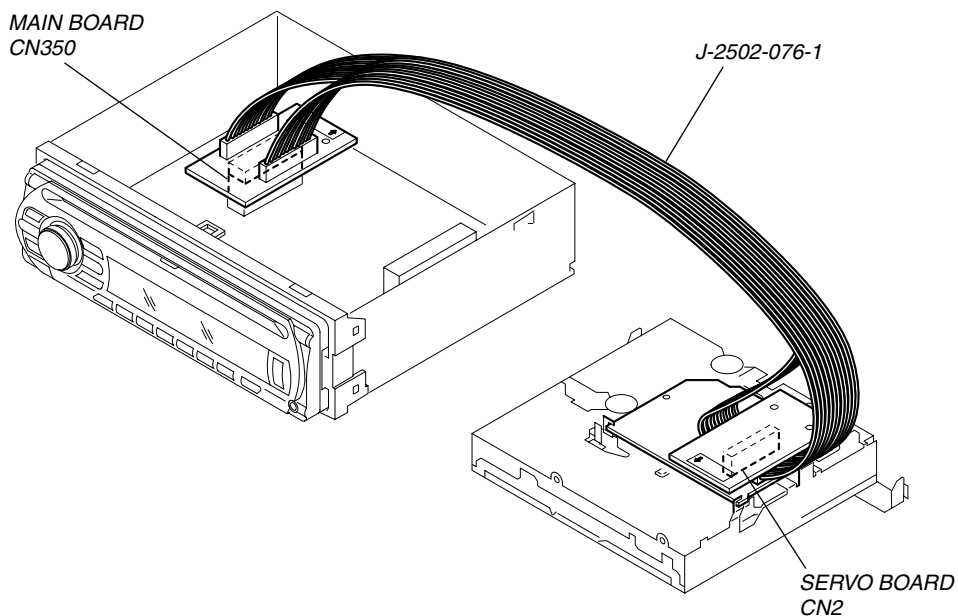
Type of discs	Label on the disc
CD-DA	
MP3 WMA AAC ATRAC CD	

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

**EXTENSION CABLE AND SERVICE POSITION**

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

- Connect the MAIN board (CN350) 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.)

**LF : LEAD FREE MARK**

Unleaded solder has the following characteristics.

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

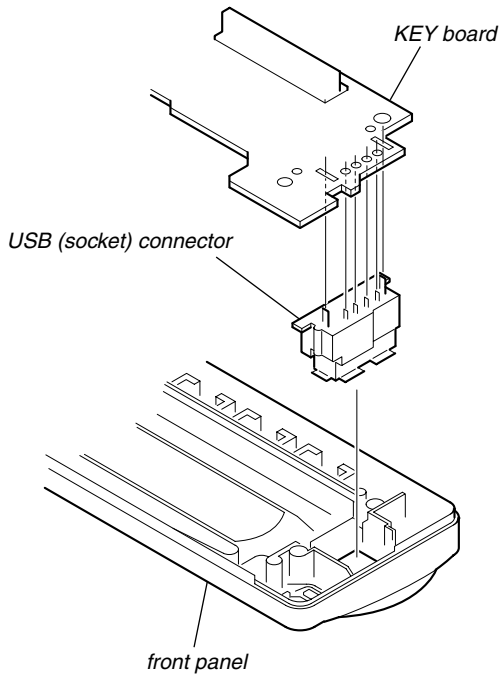
## NOTE FOR REPLACEMENT OF THE SERVO BOARD

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 USB CONNECTOR (CN902)

To replace the USB connector requires alignment.

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



## NOTE FOR THE 24-PIN CONNECTOR (CN901)

Do not use alcohol to clean the 24-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.

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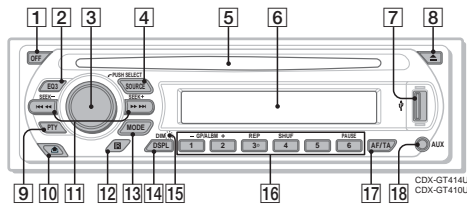
# SECTION 1 GENERAL

This section is extracted from instruction manual.

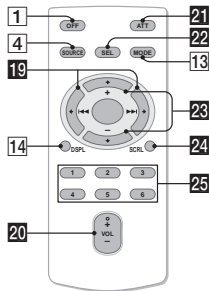
## • LOCATION OF CONTROLS

### Location of controls and basic operations

#### Main unit



#### Card remote commander RM-X151



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

- 1 OFF button**  
To power off; stop the source.
- 2 EQ3 (equalizer) button 11**  
To select an equalizer type (XPLD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 3 Volume control dial/select button 11**  
To adjust volume (rotate); select setup items (press and rotate).
- 4 SOURCE button**  
To power on; change the source (Radio/CD/MD\*/1/USB/AUX).
- 5 Disc slot**  
Insert the disc (label side up), playback starts.
- 6 Display window**
- 7 USB terminal**  
To connect to the USB device. 10
- 8 (eject) button**  
To eject the disc.
- 9 PTY (Program Type) button 10**  
To select PTY in RDS.
- 10 (front panel release) button 5**
- 21**
- 22**
- 13**
- 23**
- 24**
- 25**

- 11 SEEK -/+ buttons**  
CD/MD\*/1/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).
- 12 Receptor for the card remote commander**
- 13 MODE button 8, 13**  
To select the radio band (FM/MW/LW); select the unit\*, select the play mode\*\*.
- 14 DSPL (display)/DIM (dimmer) button 8, 9**  
To change display items (press); change the display brightness (press and hold).
- 15 RESET button** (located behind the front panel) 4
- 16 Number buttons**  
CD/MD\*/1/USB\*:  
①/②: GP\*/ALBM\*\* -/+  
To skip albums (press); skip albums continuously (press and hold)\*.  
③: REP 8  
④: SHUF 8  
⑤: PAUSE\*  
To pause playback. To cancel, press again.  
Radio:  
To receive stored stations (press); store stations (press and hold).
- 17 AF (Alternative Frequencies)/TA (Traffic Announcement) button 9**  
To set AF and TA in RDS.
- 18 AUX input jack 12**  
To connect a portable audio device.

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

- 19 (←/→) buttons**  
To control CD/radio/MD/USB, the same as (SEEK) -/+ on the unit.
- 20 VOL (volume) +/- button**  
To adjust volume.
- 21 ATT (attenuate) button**  
To attenuate the sound. To cancel, press again.
- 22 SEL (select) button**  
The same as the select button on the unit.
- 23 (↑/↓) buttons**  
To control CD, the same as ①/② (GP/ALBM -/+) on the unit.
- 24 SCRL (scroll) button 8**  
To scroll the display item.
- 25 Number buttons**  
To receive stored stations (press); store stations (press and hold).

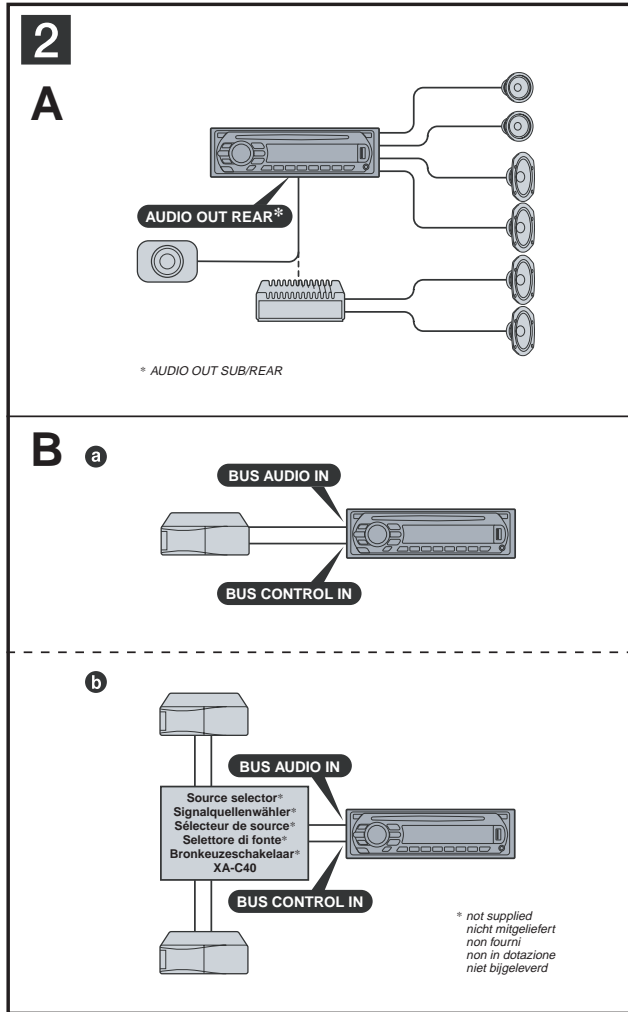
\*1 When an MD changer is connected.  
\*2 When a USB device is connected.  
\*3 When a CD/MD changer is connected.  
\*4 When an ATRAC Audio Device is connected.  
\*5 When an ATRAC CD is played.  
\*6 When an MP3/WMA/AAC is played.  
\*7 If the changer/USB device is connected, the operation is different, see page 10, 13.  
\*8 When playing back on this unit.

**Notes**  
• When ejecting/inserting a disc, keep any USB devices disconnected to avoid damage to the disc.  
• If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

**Tip**  
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 16.

**About USB cap**  
When not using the USB terminal (7), use the supplied USB cap to prevent dust or dirt entering. Keep the USB cap out of the reach of children to prevent accidental swallowing.

## • CONNECTIONS



### Connection example 2

#### Notes (2-A)

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

#### Tip (2-B-6)

For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

### Anschlussbeispiel 2

#### Hinweise (2-A)

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

#### Tip (2-B-6)

Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der Signalquellenwähler XA-C40 (nicht mitgeliefert) benötigt.

### Exemple de raccordement 2

#### Remarques (2-A)

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

#### Conseil (2-B-6)

Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C40 (non fourni) est indispensable.

### Esempio di collegamento 2

#### Note (2-A)

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

#### Suggerimento (2-B-6)

Per collegare due o più cambia CD/MD, occorre utilizzare il selettore di fonte XA-C40 (non in dotazione).

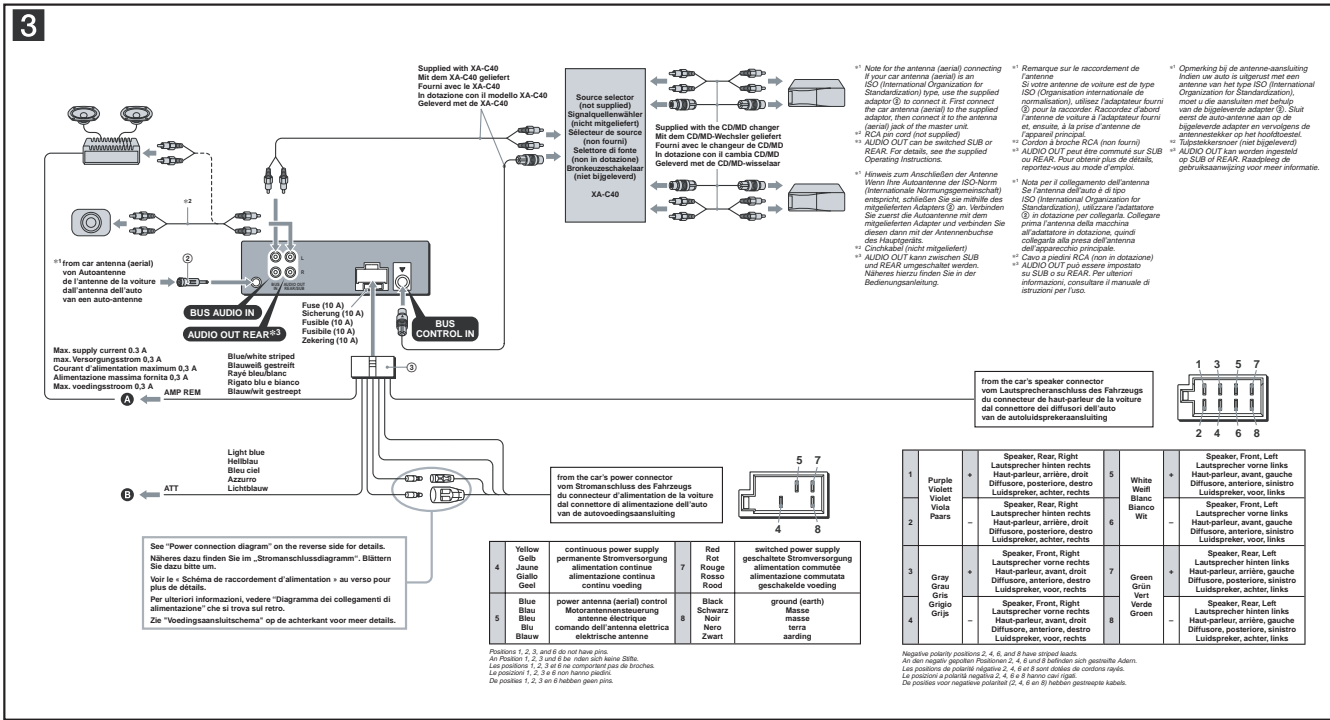
### Voorbeeldaansluitingen 2

#### Opmerkingen (2-A)

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

#### Tip (2-B-6)

Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de bronkeuzeschakelaar XA-C40 (niet bijgeleverd) nodig.



**Connection diagram 3**

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

**Warning**

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

**Notes on the control and power supply leads**

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

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

**Note on connection**

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

**Anschlussdiagramm 3**

- An AMP REMOTE IN of an optional erdhäufigen Endverstärkers. Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an, Andernfalls kann das Gerät beschädigt werden.
- Ein Schnittstellenkabel eines Autotelefon

**Warning**

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungs-kabel (3) die Antenne beschädigt werden.

**Hinweise zu den Steuer- und Stromversorgungsleitungen**

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

**Stromversorgung des Speichers**

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

**Hinweise zum Lautsprecheranschluss**

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

**Hinweis zum Anschließen**

Wenn die Lautsprecher nicht richtig angeschlossen sind, erscheint "FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass die Lautsprecher richtig angeschlossen sind.

**Schémas de raccordement 3**

- À un niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif. Ce raccordement existe seulement pour les amplificateurs. Raccorder autre à tout autre système peut endommager l'appareil.
- Le vers le cordon de liaison d'un téléphone de voiture

**Avertissement**

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

**Remarques sur les câbles de commande et d'alimentation**

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

**Raccordement pour la conservation de la mémoire**

Lorsque le câble d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si le clé de contact 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 sous peine de les endommager.
- N'accordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.
- N'accordez pas le câble de mise à la masse de cet appareil à la borne négative (-) du haut-parleur.
- Ne tentez pas de raccorder les haut-parleurs en parallèle.
- Connectez 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 voiture si l'appareil dispose d'un câble négatif commun (-) pour les haut-parleurs droit et gauche.
- N'accordez 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 "FAILURE" s'affiche. Dans ce cas, assurez-vous que les haut-parleurs sont raccordés correctement.

**Schema di collegamento 3**

- Al AMP REMOTE IN di un amplificatore di potenza opzionale. Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
- Al cavo di interfaccia di un telefono per auto

**Avvertenza**

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

**Note sui cavi di controllo e di alimentazione**

- Il cavo (blu) di controllo dell'antenna elettrica fornisce l'alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sui traffici) o AF (frequenza alternativa).
- Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/collaterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione ausiliaria ai terminali di alimentazione dell'amplificatore di potenza dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.
- Non è possibile usare un'antenna elettrica senza scatola a relé con questo apparecchio.

**Collegamento per la conservazione della memoria**

Quando il cavo di alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

**Note sul collegamento dei diffusori**

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

**Nota sui collegamenti**

Se il diffusore non è collegato correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che il diffusore sia collegato correttamente.

**Aansluitschema 3**

- Naar AMP REMOTE IN van een optionele versterker. 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 autotelefoon

**Waarschuwing**

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

**Opmerkingen over de bedienings- en voedingskabels**

- De bedieningskabel van de elektrische antenne (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (alternatieve frequentie) of TA (verkeersinformatie) functie activeert.
- Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterzijde/zijde, moet u de bedieningskabel van de elektrische antenne (blauw) of de voedingskabel van de accessoires (rood) aansluiten op de voedingsgang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.
- Mits het apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.

**Instandhouding van het geheugen**

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

**Opmerkingen betreffende het aansluiten van de luidsprekers**

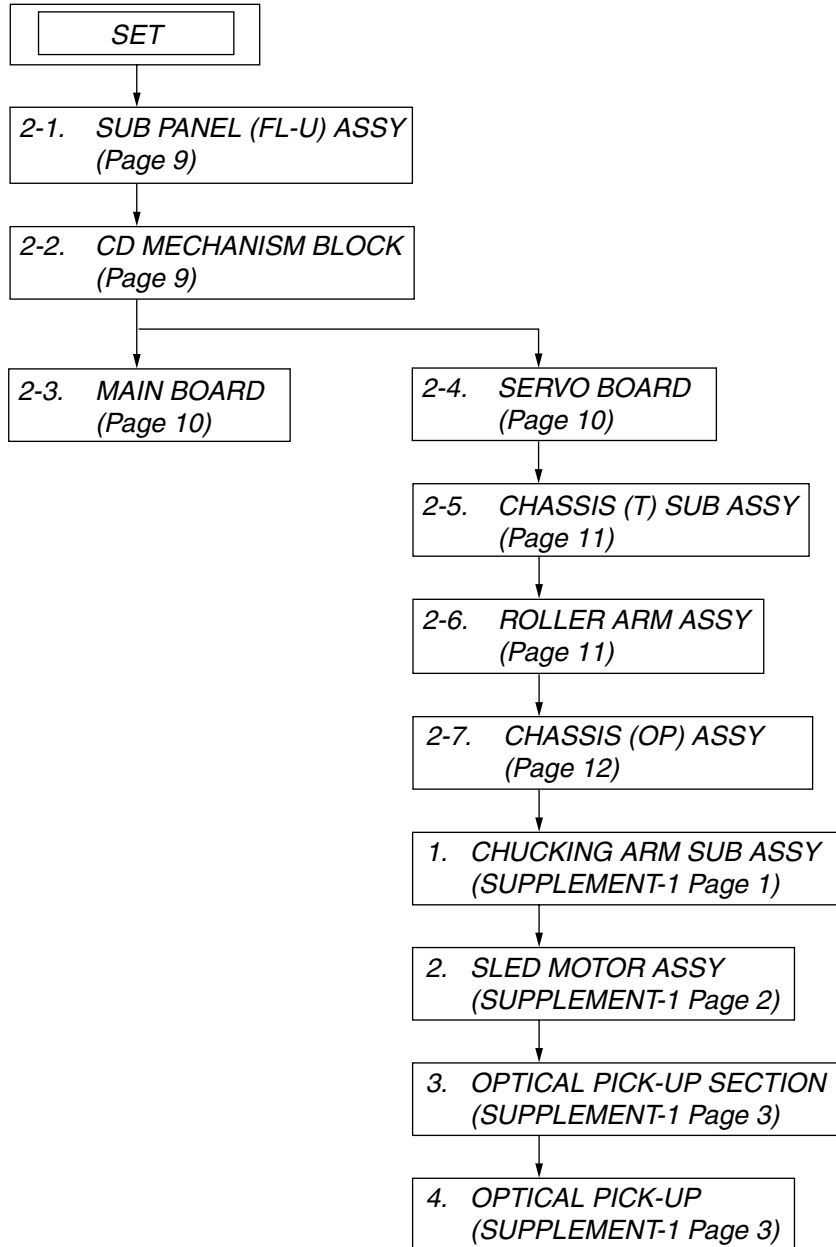
- Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.
- Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat de het vermogen van de versterker kunnen verwerken. Als u niet oplet, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de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

**Opmerking over aansluiten**

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

## SECTION 2 DISASSEMBLY

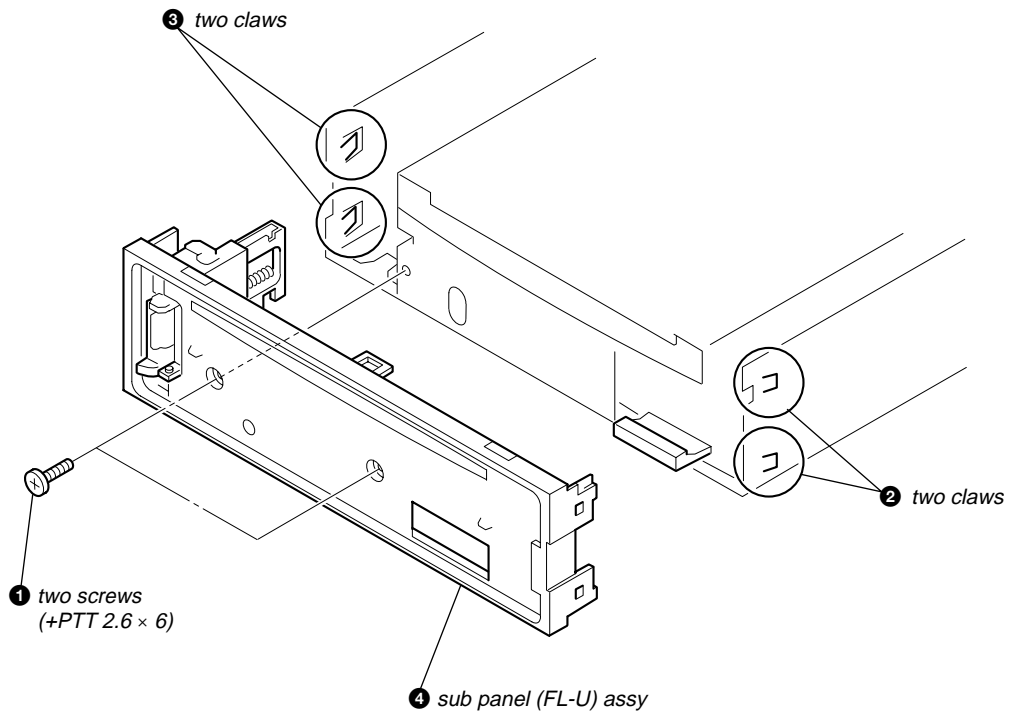
**Note:** This set can be disassemble according to the following sequence.



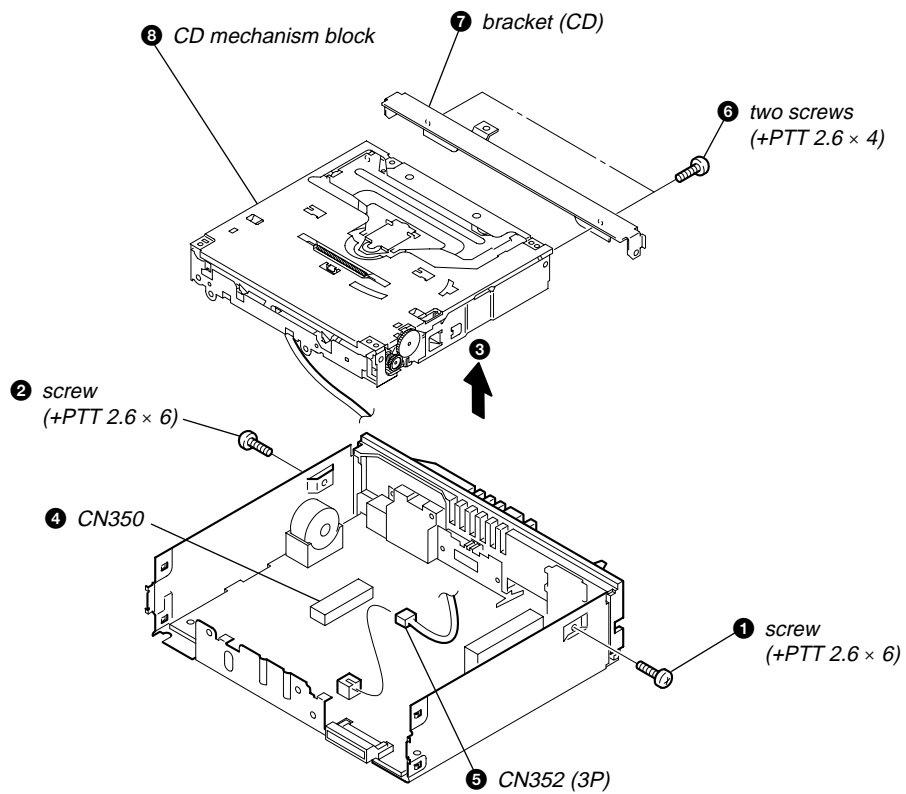


**Note:** Follow the disassembly procedure in the numerical order given.

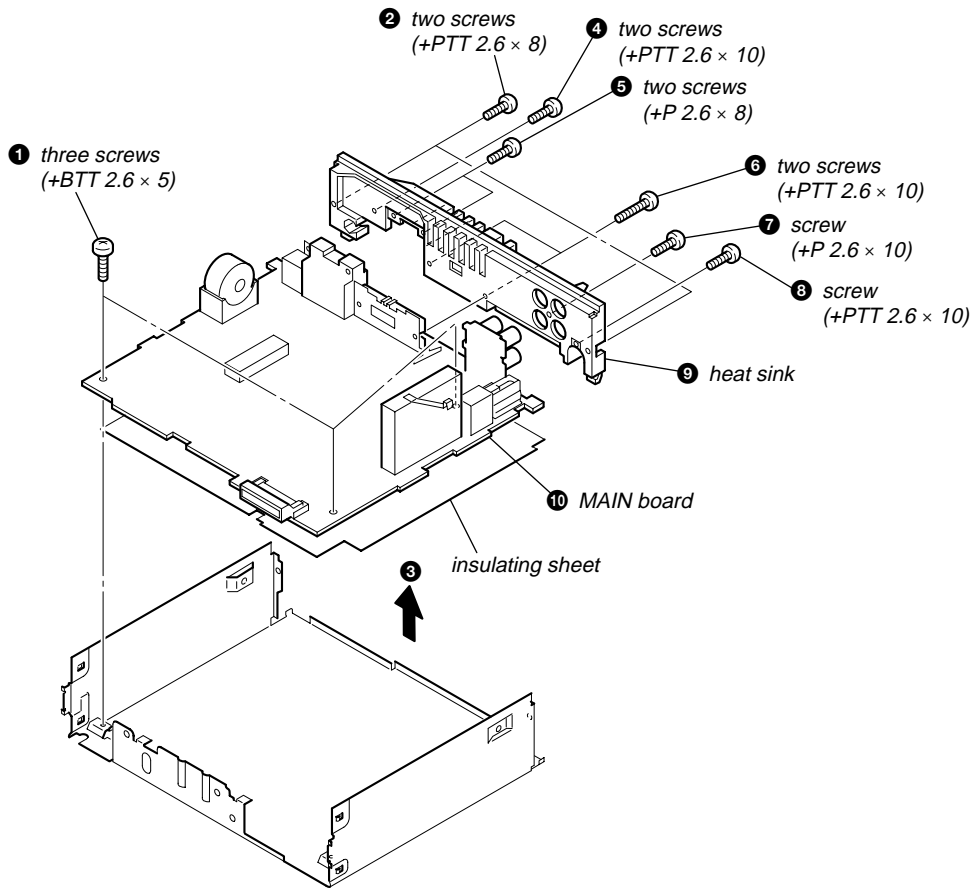
**2-1. SUB PANEL (FL) ASSY**



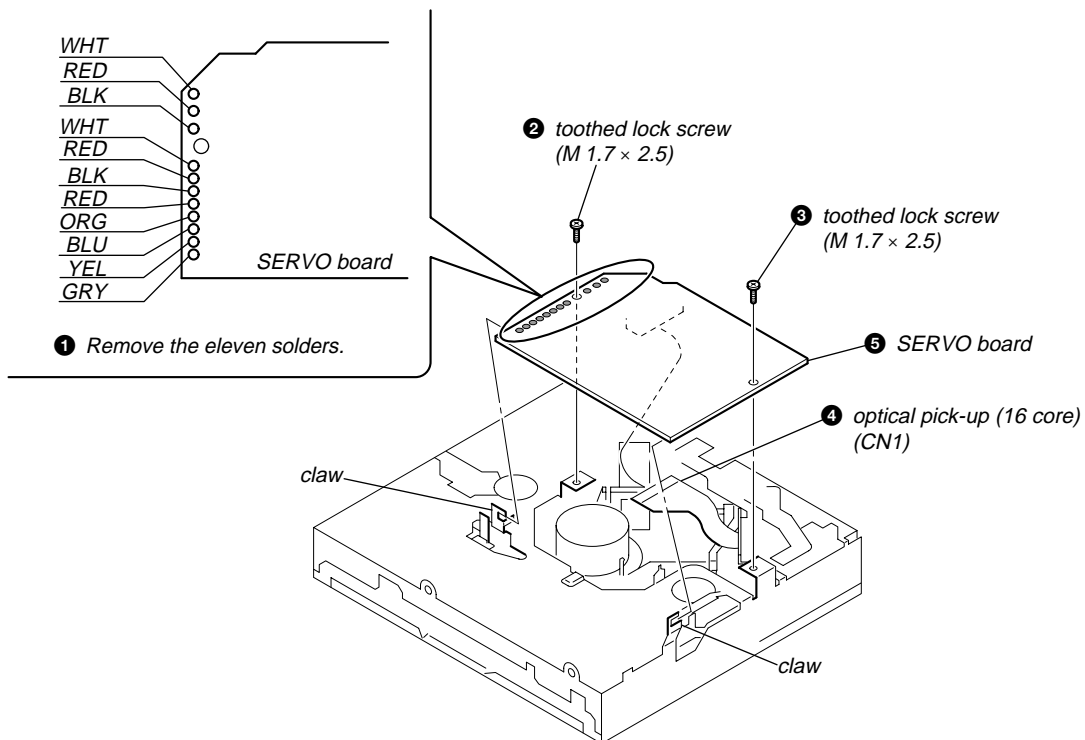
**2-2. CD MECHANISM BLOCK**



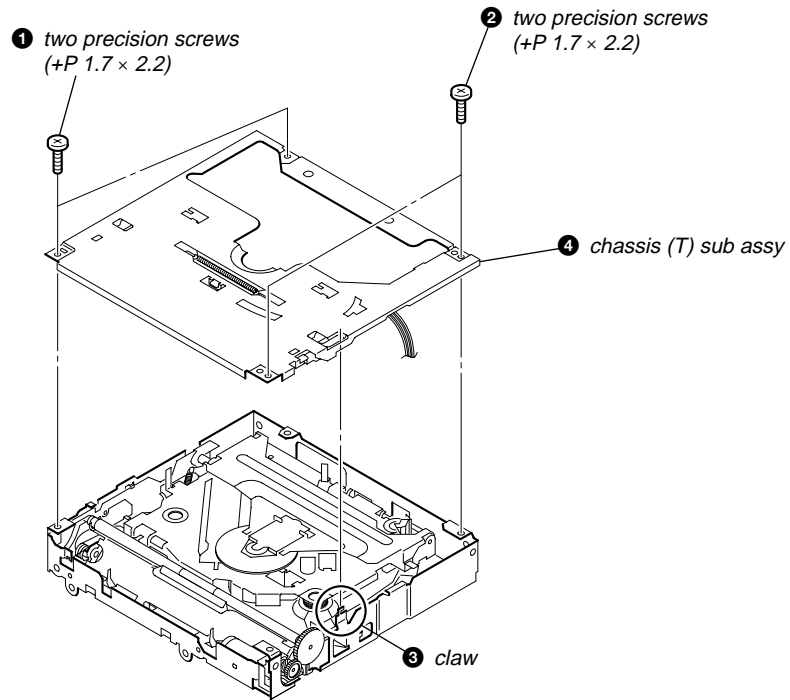
2-3. MAIN BOARD



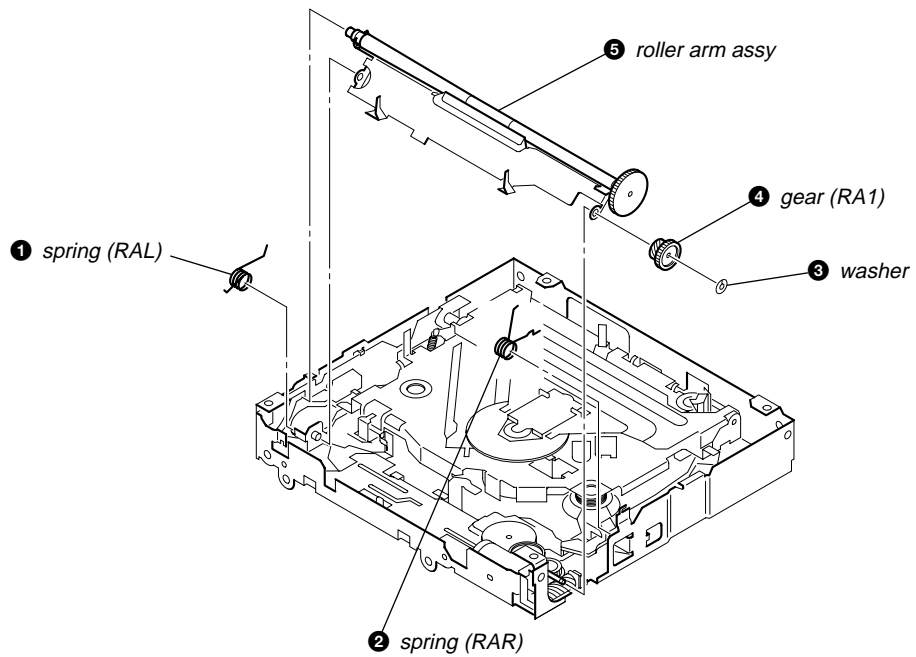
2-4. SERVO BOARD



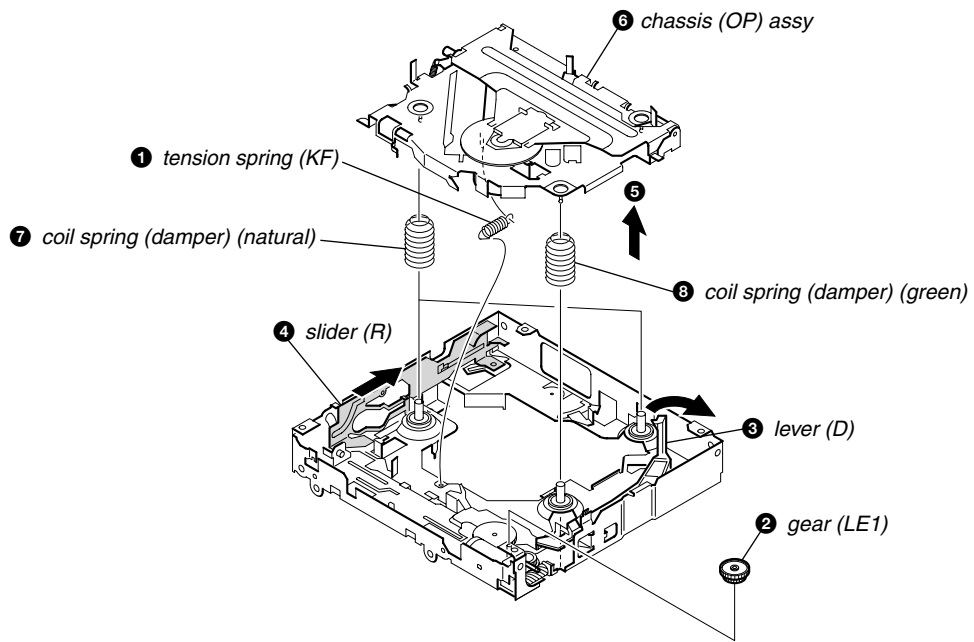
2-5. CHASSIS (T) SUB ASSY



2-6. ROLLER ARM ASSY



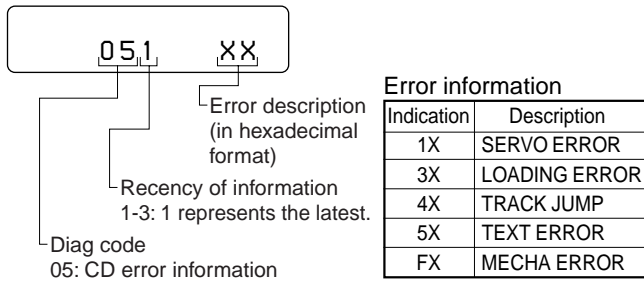
2-7. CHASSIS (OP) ASSY



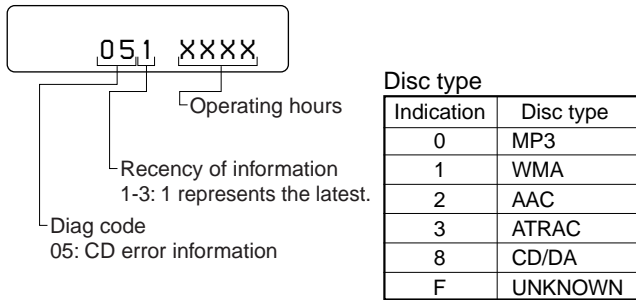


## 4-5. CD error information display mode

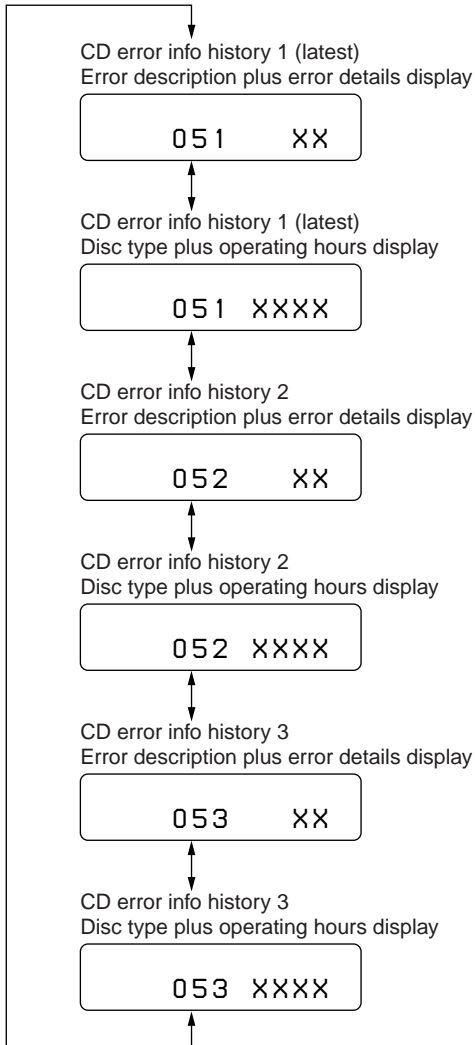
### 4-5-1. Error description



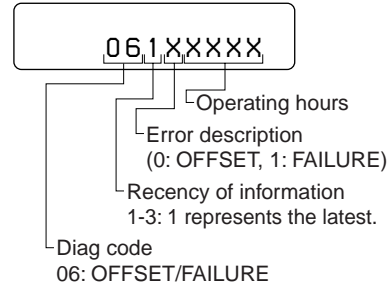
### 4-5-2. Disc type and operating hours



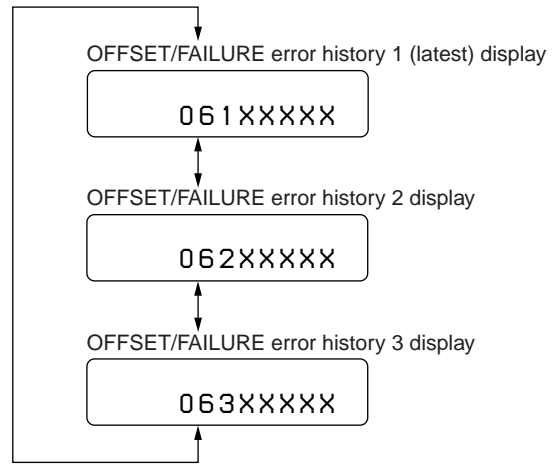
The display mode is switched by each rotation of [2/GP/ALBM+] or [1/GP/ALBM-] keys during the CD error information display mode.



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

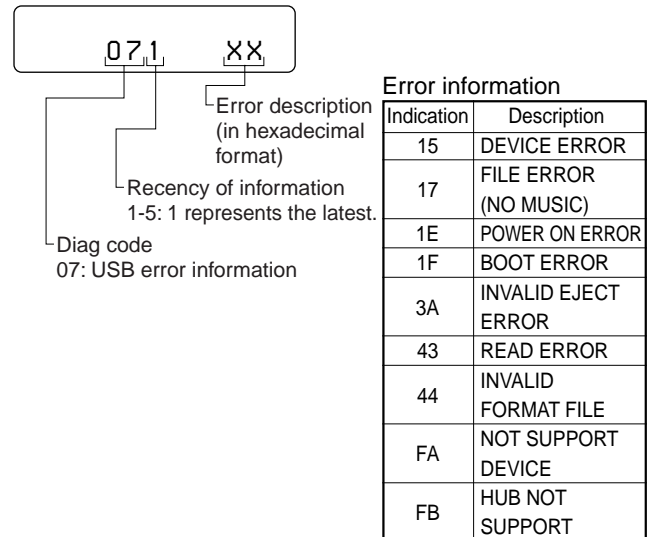


The display mode is switched by each rotation of [2/GP/ALBM+] or [1/GP/ALBM-] keys during the OFFSET/FAILURE error display mode.

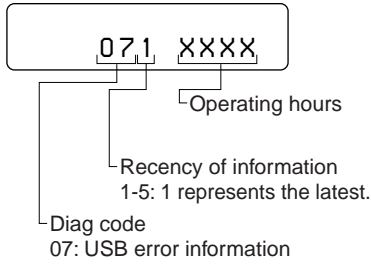


## 4-7. USB error information display mode

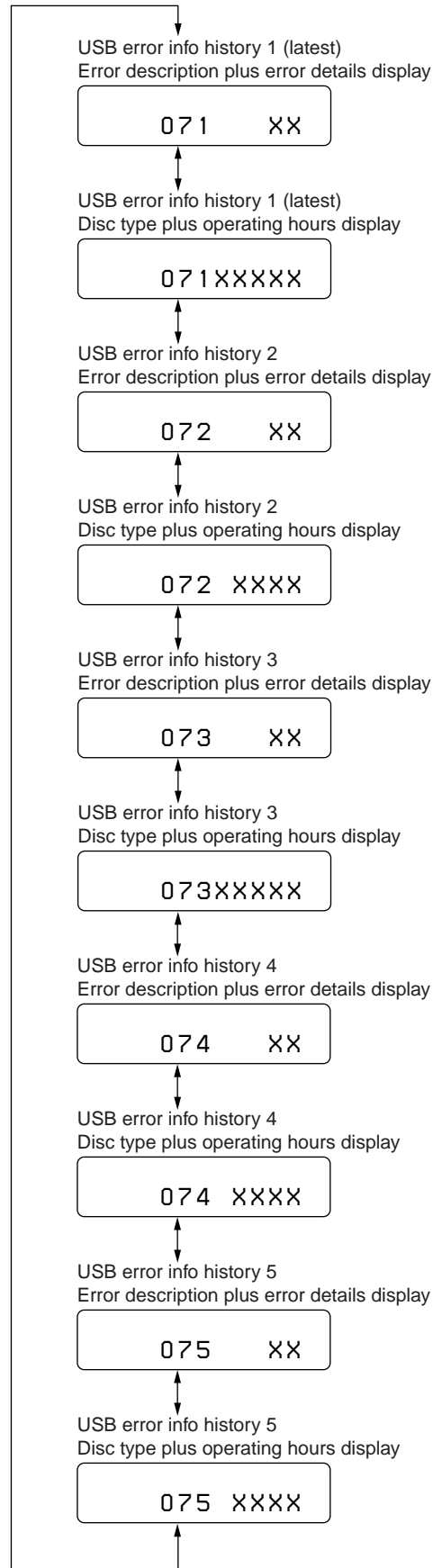
### 4-7-1. Error description



4-7-2. Disc type and operating hours



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

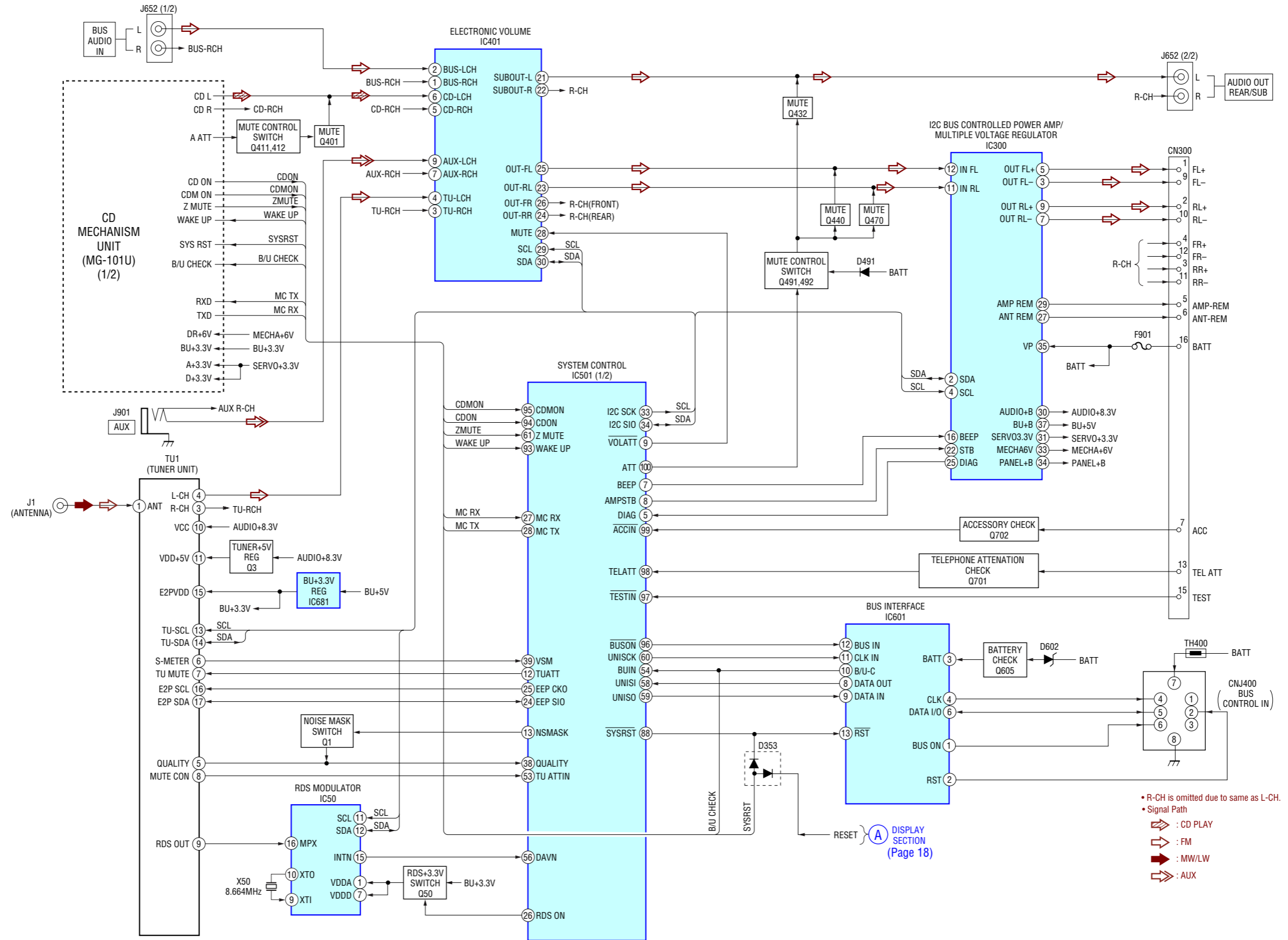


MEMO

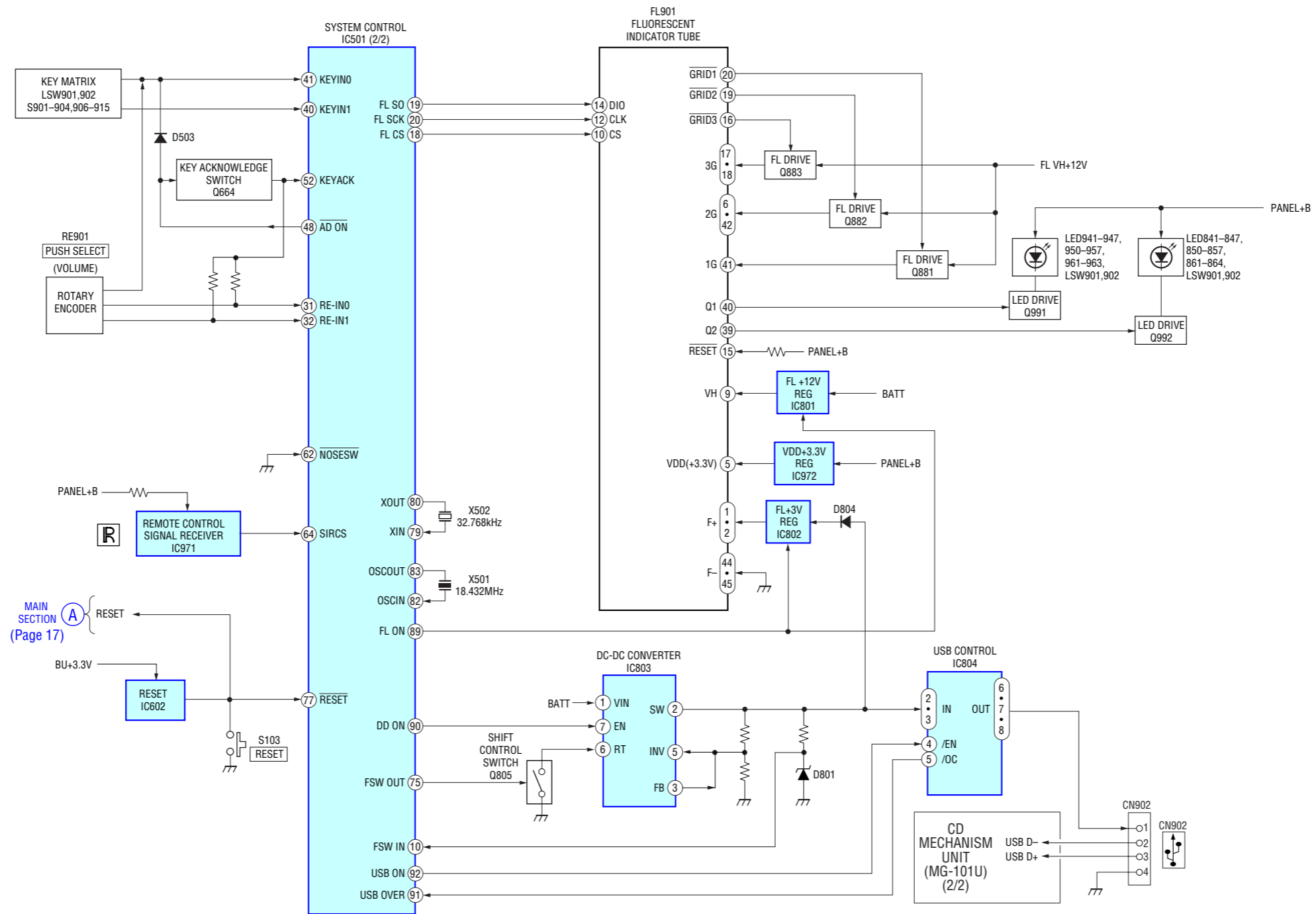


SECTION 4  
DIAGRAMS

4-1. BLOCK DIAGRAM — MAIN SECTION —



4-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

**For schematic diagrams.**

- Note:**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
  - $\Delta$  : internal component.
  - $\square$  : panel designation.

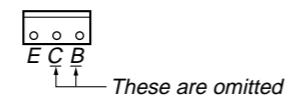
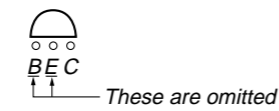
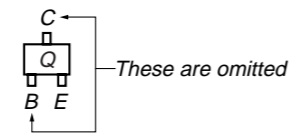
**Note:** The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

- — : B+ Line.
- - - - : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- (    ) : MW/LW
- <    > : CD PLAY
- \* : Impossible to measure
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : CD PLAY
- : FM
- : MW/LW
- : AUX

**For printed wiring boards.**

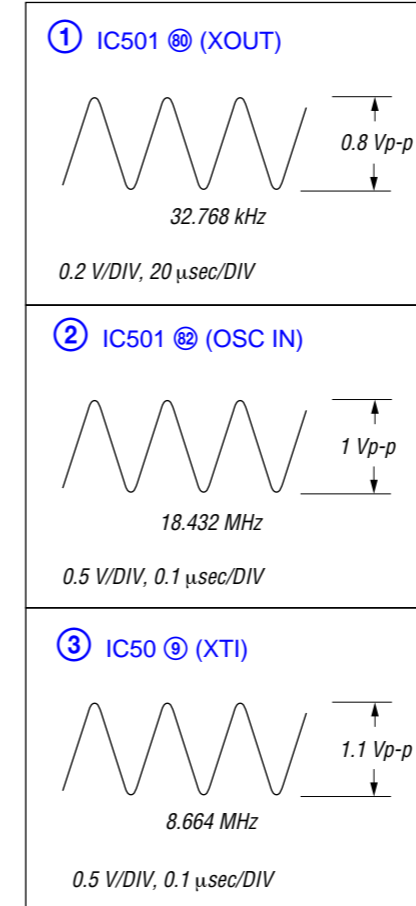
- Note:**
- : parts extracted from the component side.
  - : parts extracted from the conductor side.
  - : Through hole.
  - : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

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

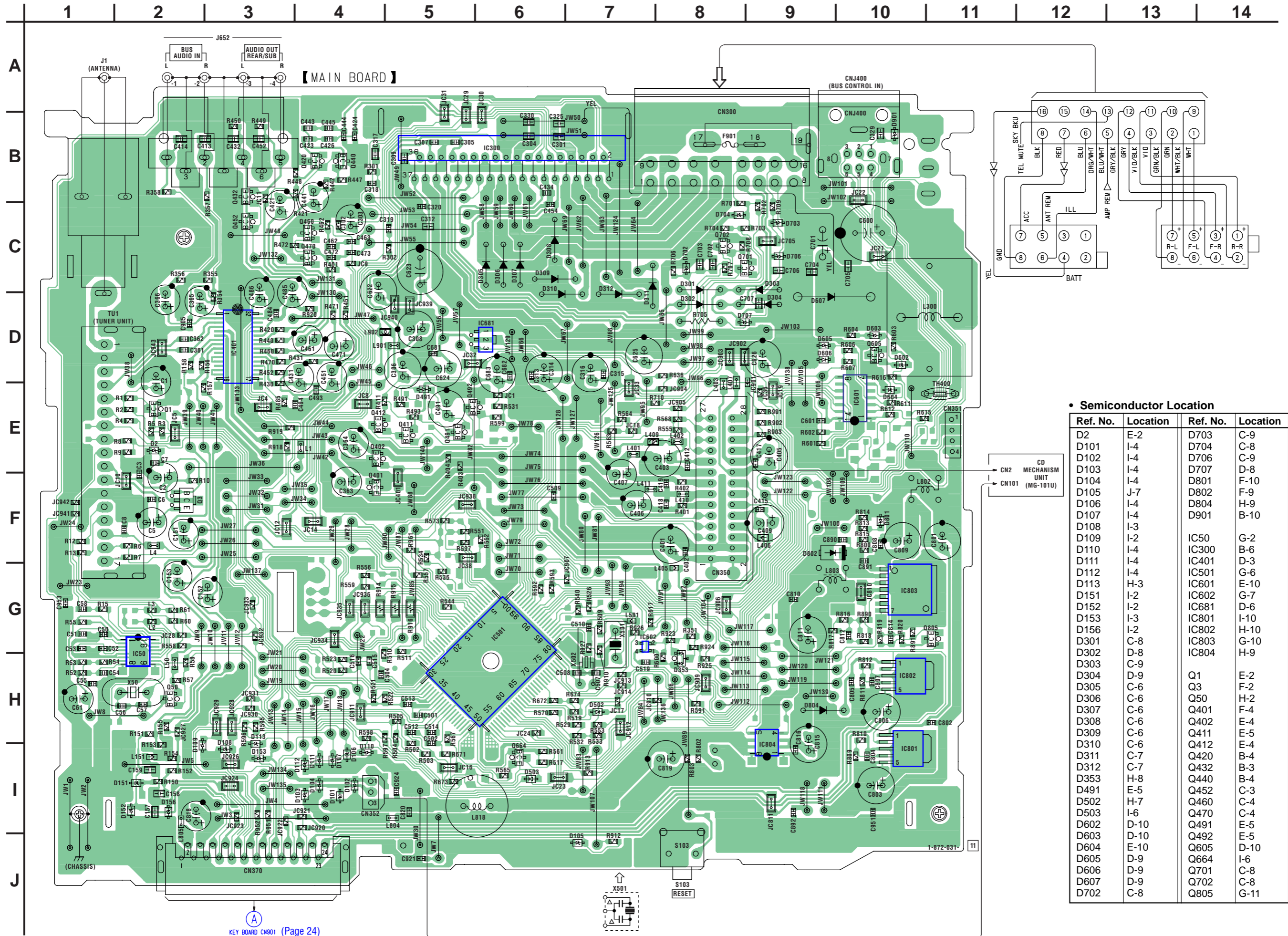


• Waveforms

— MAIN Board —



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

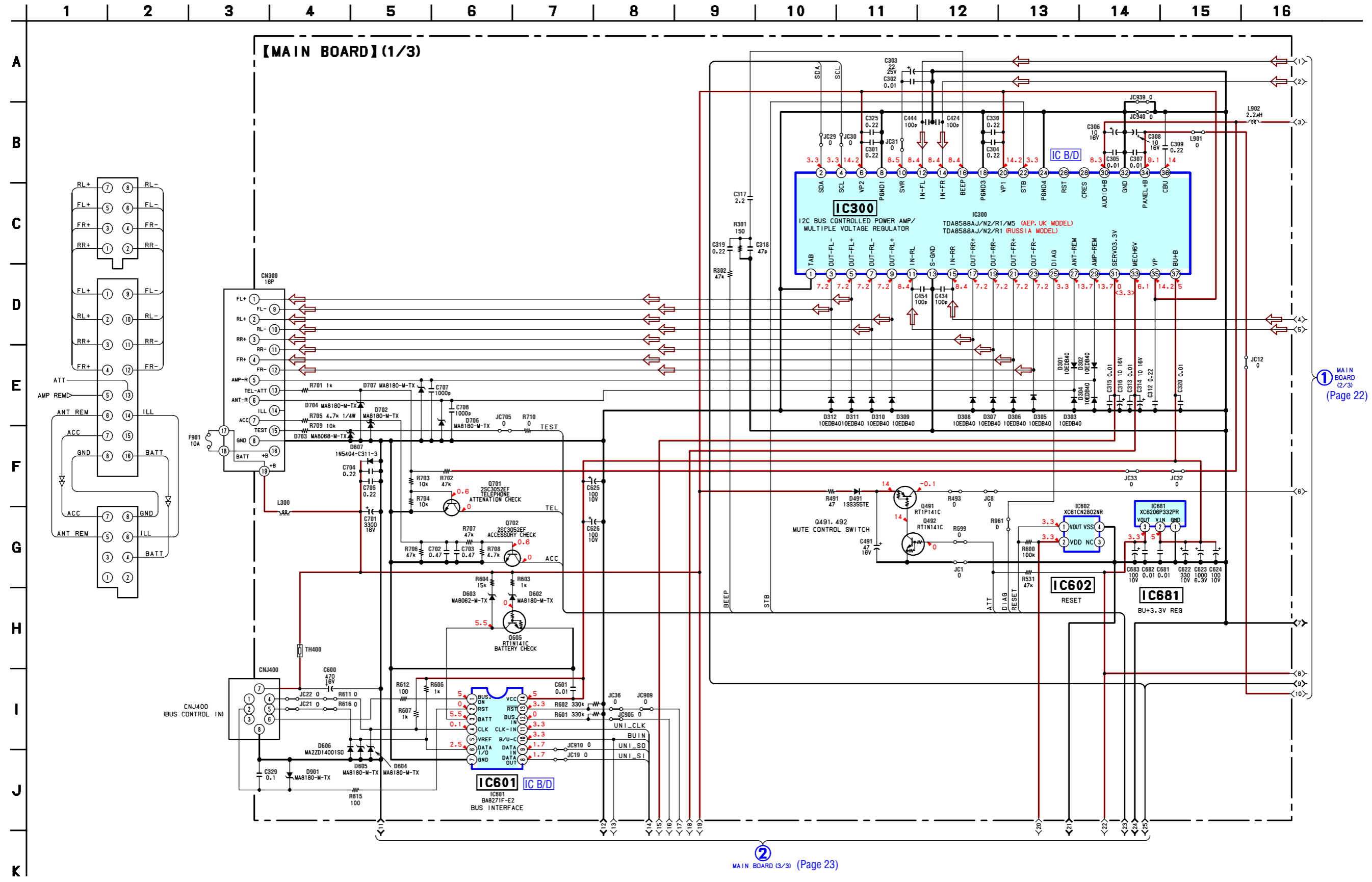


**• Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D2	E-2	D703	C-9
D101	I-4	D704	C-8
D102	I-4	D706	C-9
D103	I-4	D707	D-8
D104	I-4	D801	F-10
D105	J-7	D802	F-9
D106	I-4	D804	H-9
D107	I-4	D901	B-10
D108	I-3		
D109	I-2	IC50	G-2
D110	I-4	IC300	B-6
D111	I-4	IC401	D-3
D112	I-4	IC501	G-6
D113	H-3	IC601	E-10
D151	I-2	IC602	G-7
D152	I-2	IC681	D-6
D153	I-3	IC801	I-10
D156	I-2	IC802	H-10
D301	C-8	IC803	G-10
D302	D-8	IC804	H-9
D303	C-9		
D304	D-9	Q1	E-2
D305	C-6	Q3	F-2
D306	C-6	Q50	H-2
D307	C-6	Q401	F-4
D308	C-6	Q402	E-4
D309	C-6	Q411	E-5
D310	C-6	Q412	E-4
D311	C-7	Q420	B-4
D312	C-7	Q432	B-3
D353	H-8	Q440	B-4
D491	E-5	Q452	C-3
D502	H-7	Q460	C-4
D503	I-6	Q470	C-4
D602	D-10	Q491	E-5
D603	D-10	Q492	E-5
D604	E-10	Q605	D-10
D605	D-9	Q664	I-6
D606	D-9	Q701	C-8
D607	D-9	Q702	C-8
D702	C-8	Q805	G-11



4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 26 for IC Block Diagrams.

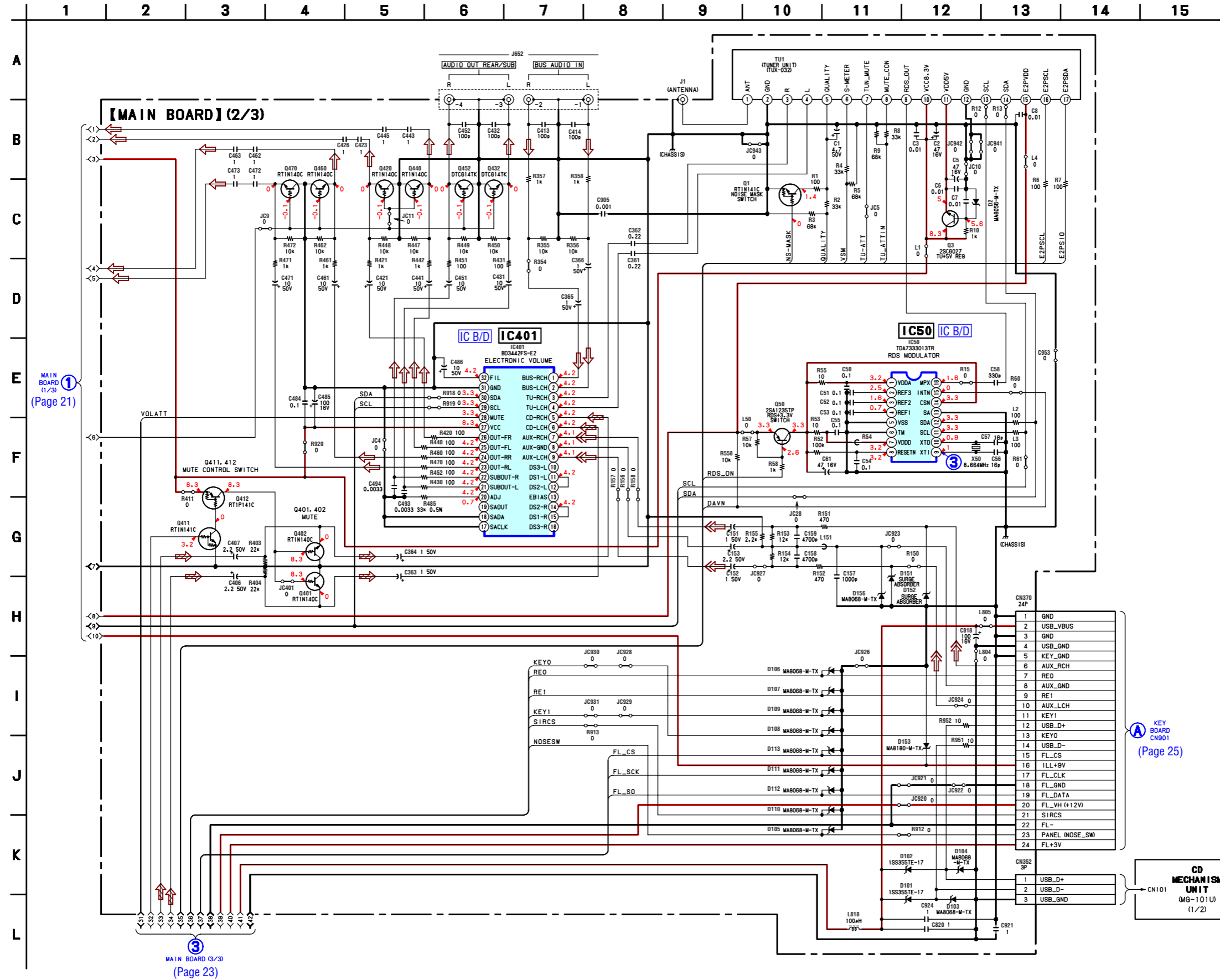


1 MAIN BOARD (2/3) (Page 22)

2 MAIN BOARD (3/3) (Page 23)

4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —

• Refer to page 19 for Waveforms.  
 • Refer to page 26 for IC Block Diagrams.



MAIN BOARD (1/3) (Page 21)

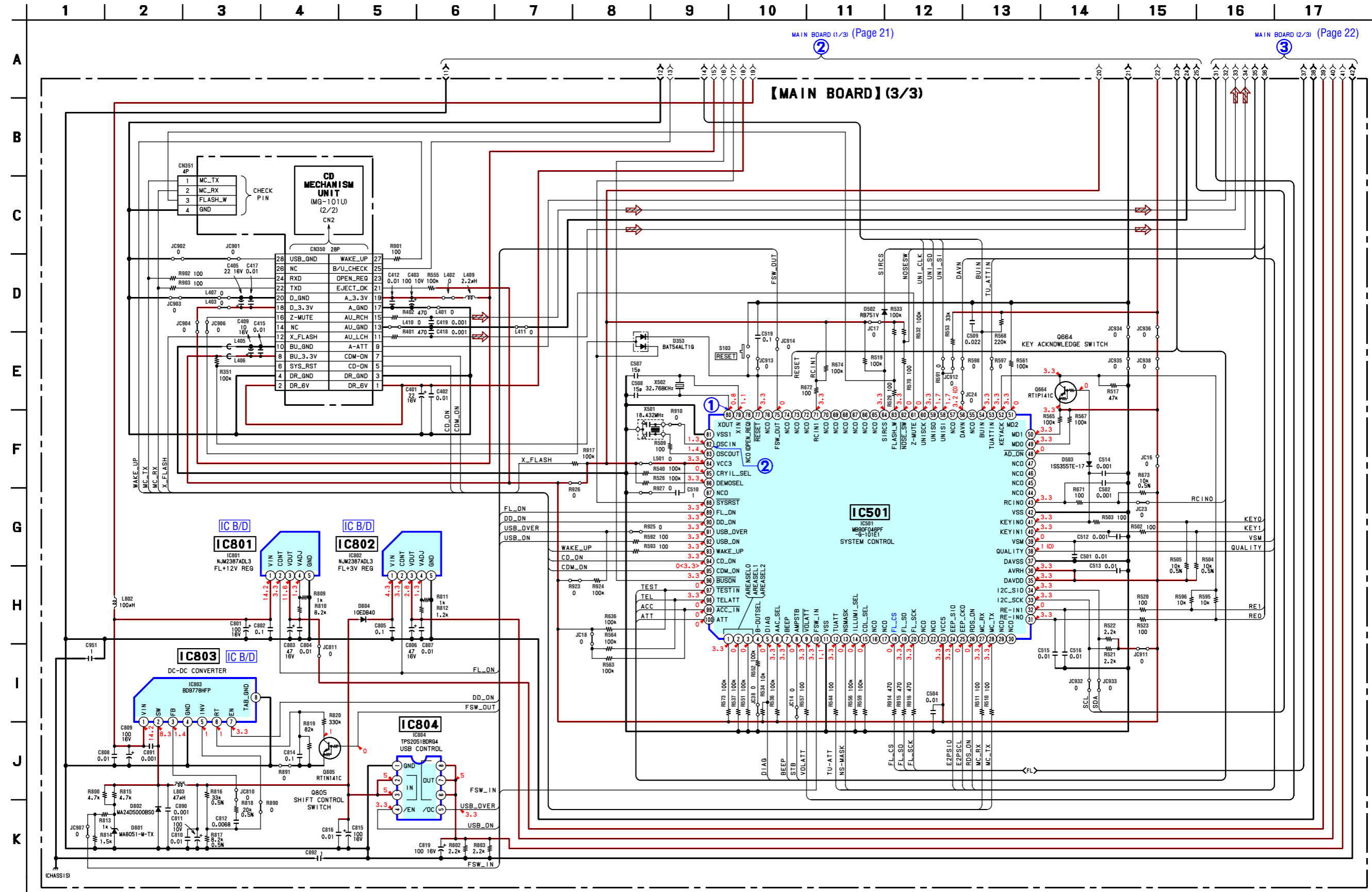
MAIN BOARD (3/3) (Page 23)

KEY BOARD CN901 (Page 25)

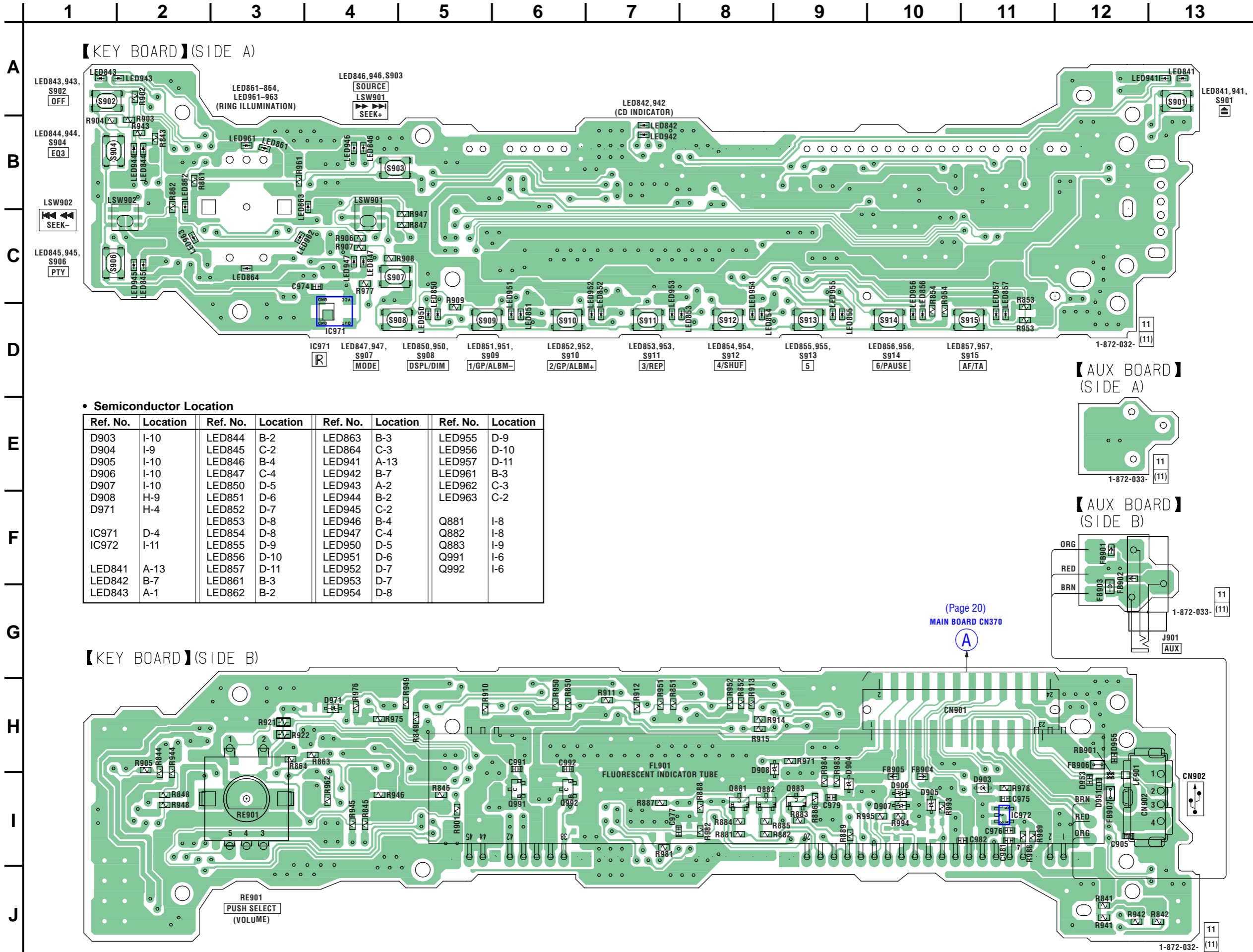
CD MECHANISM UNIT (MG-101U) (1/2)

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

- Refer to page 19 for Waveforms.
- Refer to page 27 for IC Block Diagrams.
- Refer to page 28 for IC Pin Description of IC501.



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



• Semiconductor Location

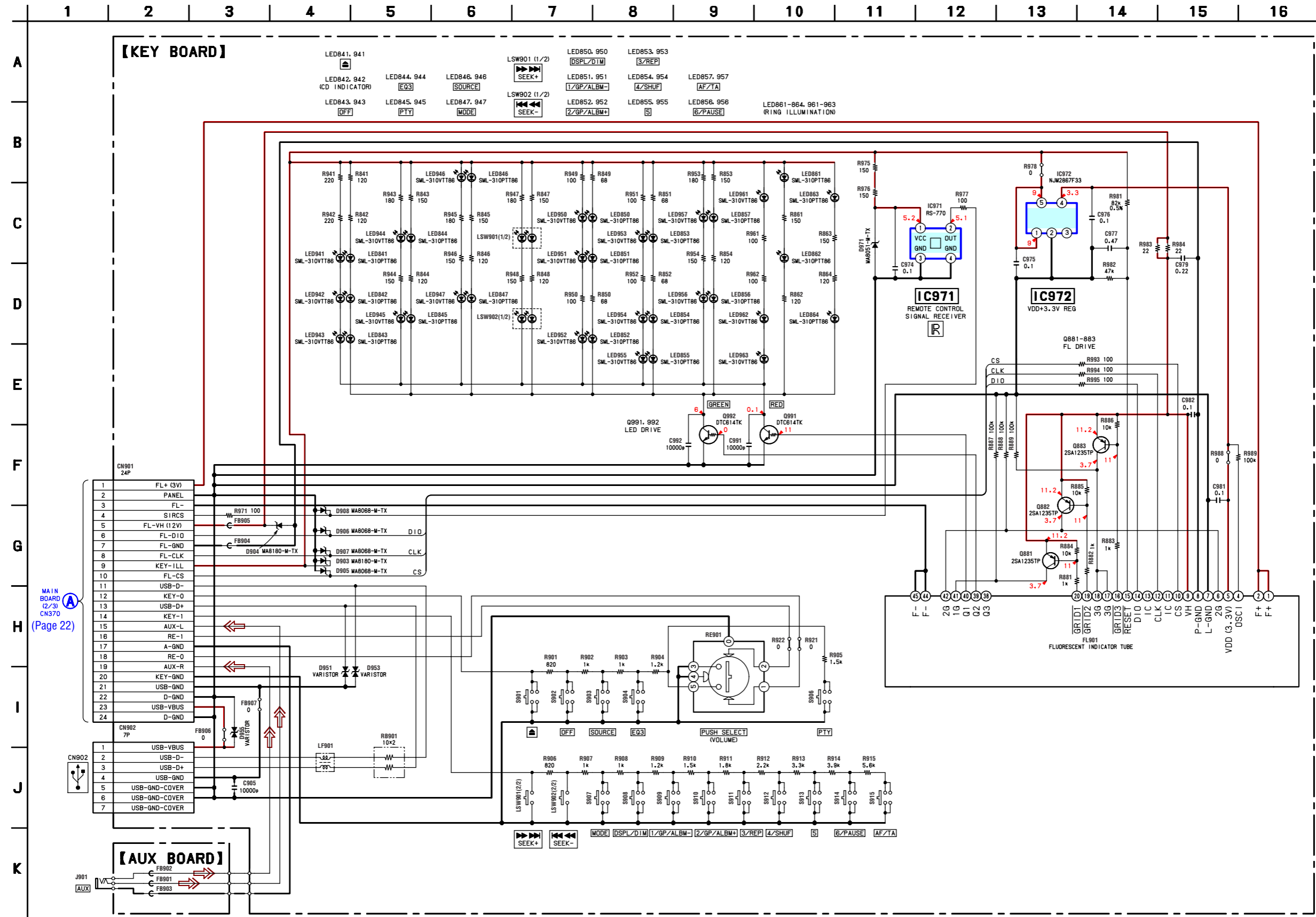
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D903	I-10	LED844	B-2	LED863	B-3	LED955	D-9
D904	I-9	LED845	C-2	LED864	C-3	LED956	D-10
D905	I-10	LED846	B-4	LED941	A-13	LED957	D-11
D906	I-10	LED847	C-4	LED942	B-7	LED961	B-3
D907	I-10	LED850	D-5	LED943	A-2	LED962	C-3
D908	H-9	LED851	D-6	LED944	B-2	LED963	C-2
D971	H-4	LED852	D-7	LED945	C-2		
		LED853	D-8	LED946	B-4	Q881	I-8
IC971	D-4	LED854	D-8	LED947	C-4	Q882	I-8
IC972	I-11	LED855	D-9	LED950	D-5	Q883	I-9
		LED856	D-10	LED951	D-6	Q991	I-6
LED841	A-13	LED857	D-11	LED952	D-7	Q992	I-6
LED842	B-7	LED861	B-3	LED953	D-7		
LED843	A-1	LED862	B-2	LED954	D-8		

(Page 20)  
MAIN BOARD CN370



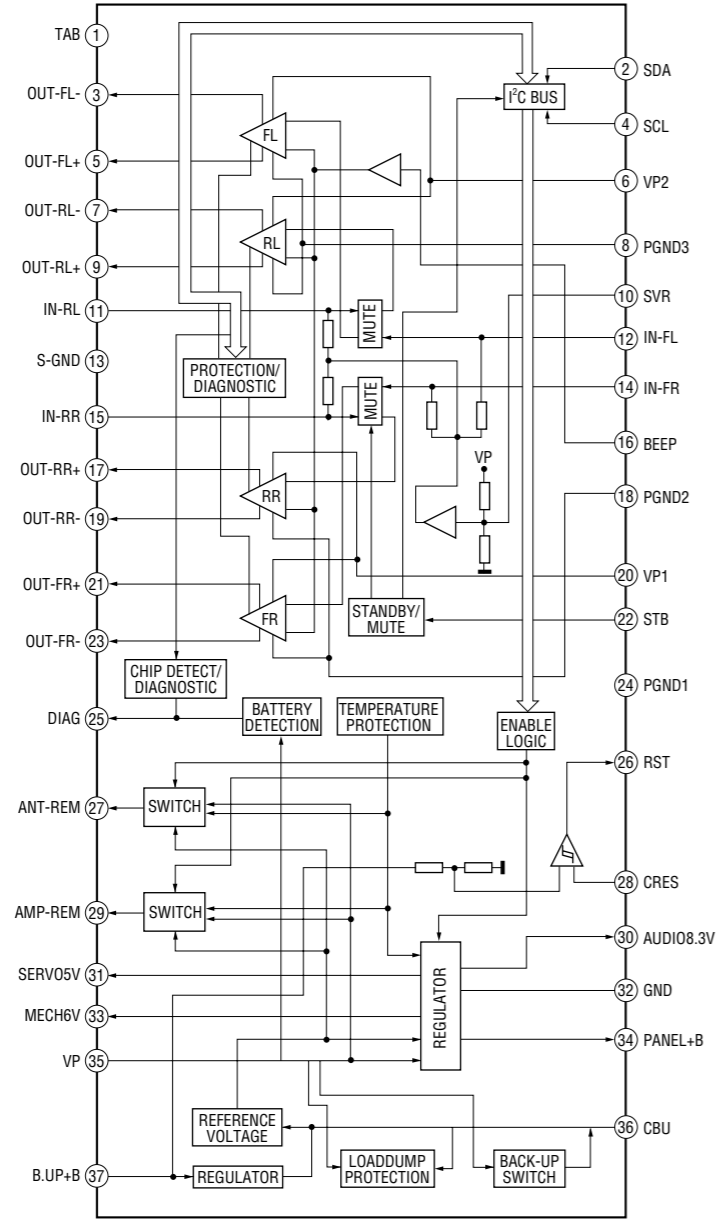


4-8. SCHEMATIC DIAGRAM — KEY SECTION —

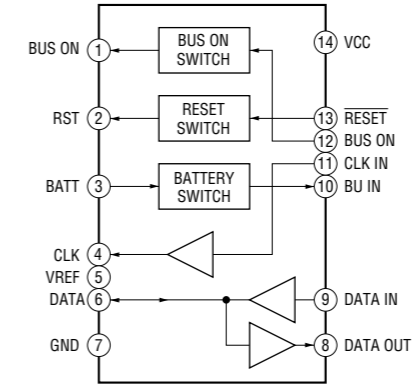


• IC BLOCK DIAGRAMS

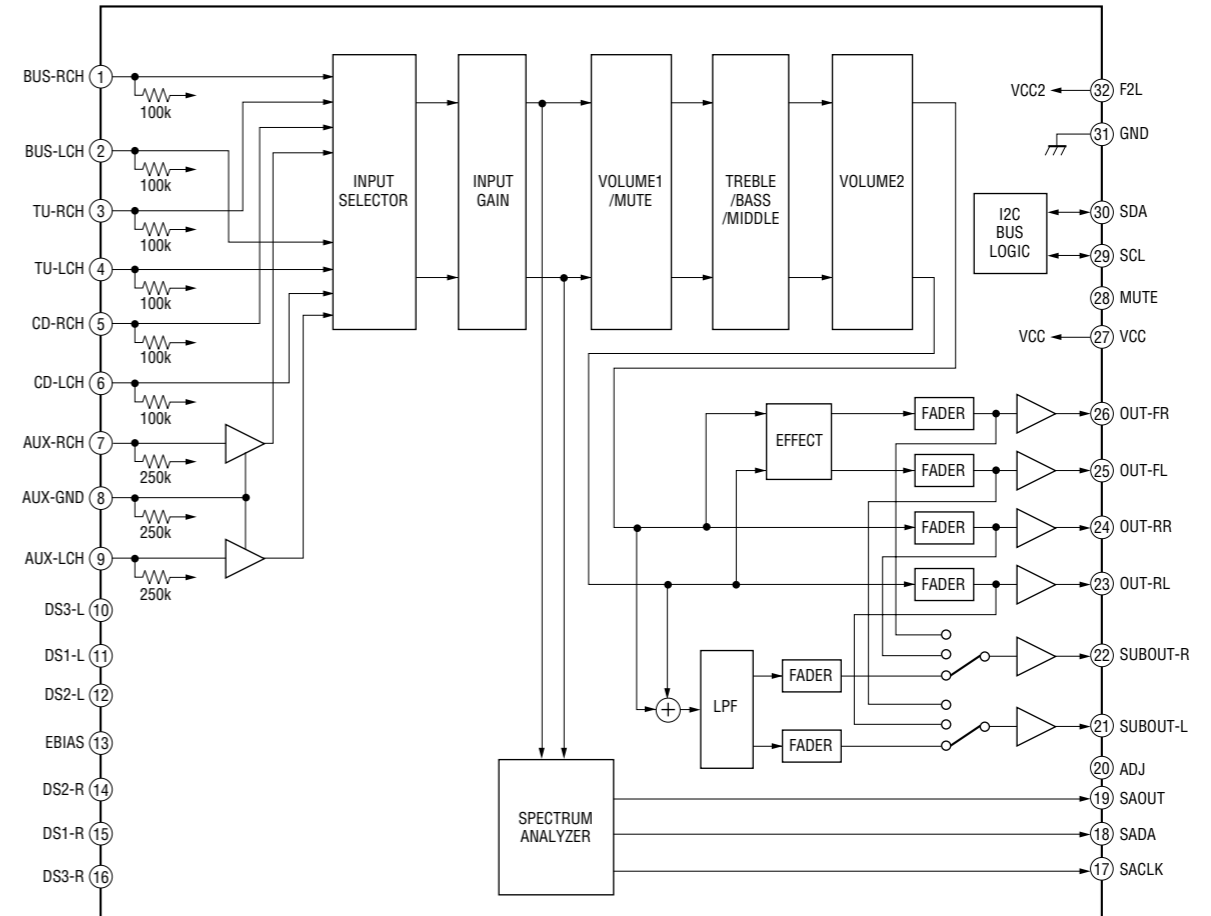
IC300 TDA8588AJ/N2/R1/M5 (AEP, UK MODEL) (MAIN Board (1/3))  
 IC300 TDA8588AJ/N2/R1 (RUSSIA MODEL) (MAIN Board (1/3))



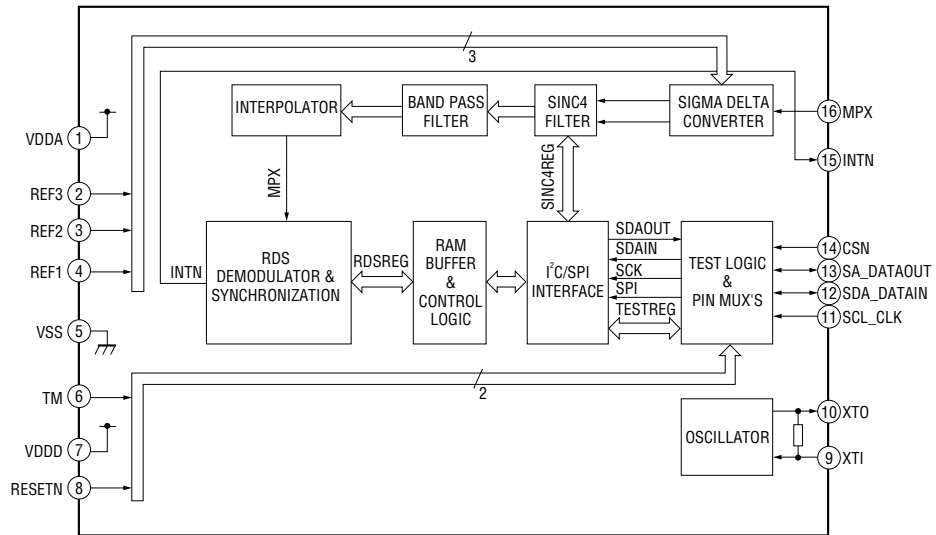
IC601 BA8271F-E2 (MAIN Board (1/3))



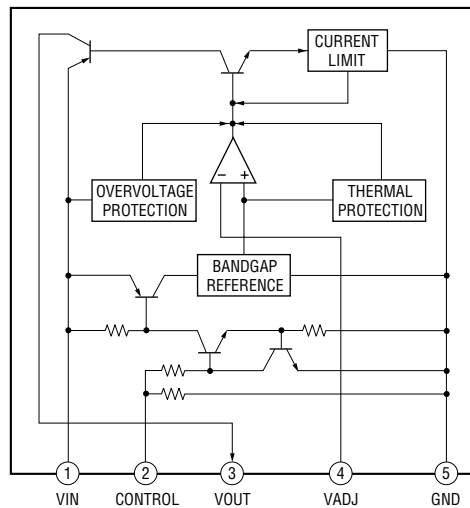
IC401 BD3442FS-E2 (MAIN Board (2/3))



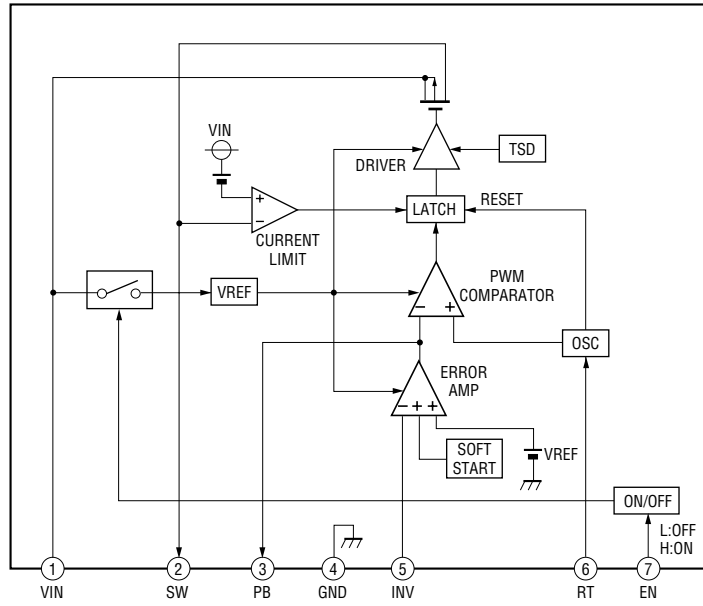
**IC50 TDA7333013TR (MAIN Board (2/3))**



**IC801 NJM2387ADL3 (MAIN Board (3/3))**  
**IC802 NJM2387ADL3 (MAIN Board (3/3))**



IC803 BD9778HFP (MAIN Board (3/3))



## • IC PIN DESCRIPTION

## IC501 MB90F046PF-G-101E1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin 0
2	AREASEL1	I	Destination setting pin 1
3	AREASEL2	I	Destination setting pin 2
4	B-OUTSEL	I	Black-out with/without discrimination signal input "H": Black-out
5	DIAG	I	Status signal input from power amplifier
6	AAC SEL	I	AAC play setting signal input
7	BEEP	O	Beep signal output to power amplifier
8	AMPSTB	O	Standby signal output to power amplifier
9	VOLATT	O	Electronic volume attenuate control signal output
10	FSW IN	I	D/D converter oscillator frequency count signal input
11	VSS	—	Ground pin
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output
14	ILLUMI SEL	I	Illumination voltage setting signal input
15	COL SEL	I	Two colors change setting signal input
16, 17	NCO	O	Not used. (Open)
18	FL CS	O	Fluorescent indicator tube chip select signal output
19	FL SO	O	Fluorescent indicator tube serial data signal output
20	FL SCK	O	Fluorescent indicator tube serial clock signal output
21, 22	NCO	O	Not used. (Open)
23	VCC5	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	EEPROM bus serial data signal input/output
25	EEP CKO	O	EEPROM bus serial clock signal output
26	RDS ON	O	RDS (Radio Data System) on signal output Tuner on: "L"
27	MC RX	I	Mechanism microcomputer communication signal input RX
28	MC TX	O	Mechanism microcomputer communication signal output TX
29, 30	NCO	O	Not used. (Open)
31	RE IN0	I	Rotary encoder signal input 0
32	RE IN1	I	Rotary encoder signal input 1
33	I2C SCK	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 pin (+3.3 V)
36	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
37	DAVSS	—	Ground pin
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 pin
43	RCIN0	I	Rotary commander key signal input Not used in this set.
44 to 47	NCO	O	Not used. (open)
48	AD ON	O	A/D converter power supply control signal output
49	MD0	I	Operation mode setting pin (Connect to VDD.)
50	MD1	I	Operation mode setting pin (Connect to VDD.)
51	MD2	I	Operation mode setting pin (Connect to VSS.)
52	KEYACK	I	Key acknowledgment detect signal input
53	TUATTIN	I	Tuner mute zero cross detect signal input
54	BUIN	I	Back-up power supply detect signal input

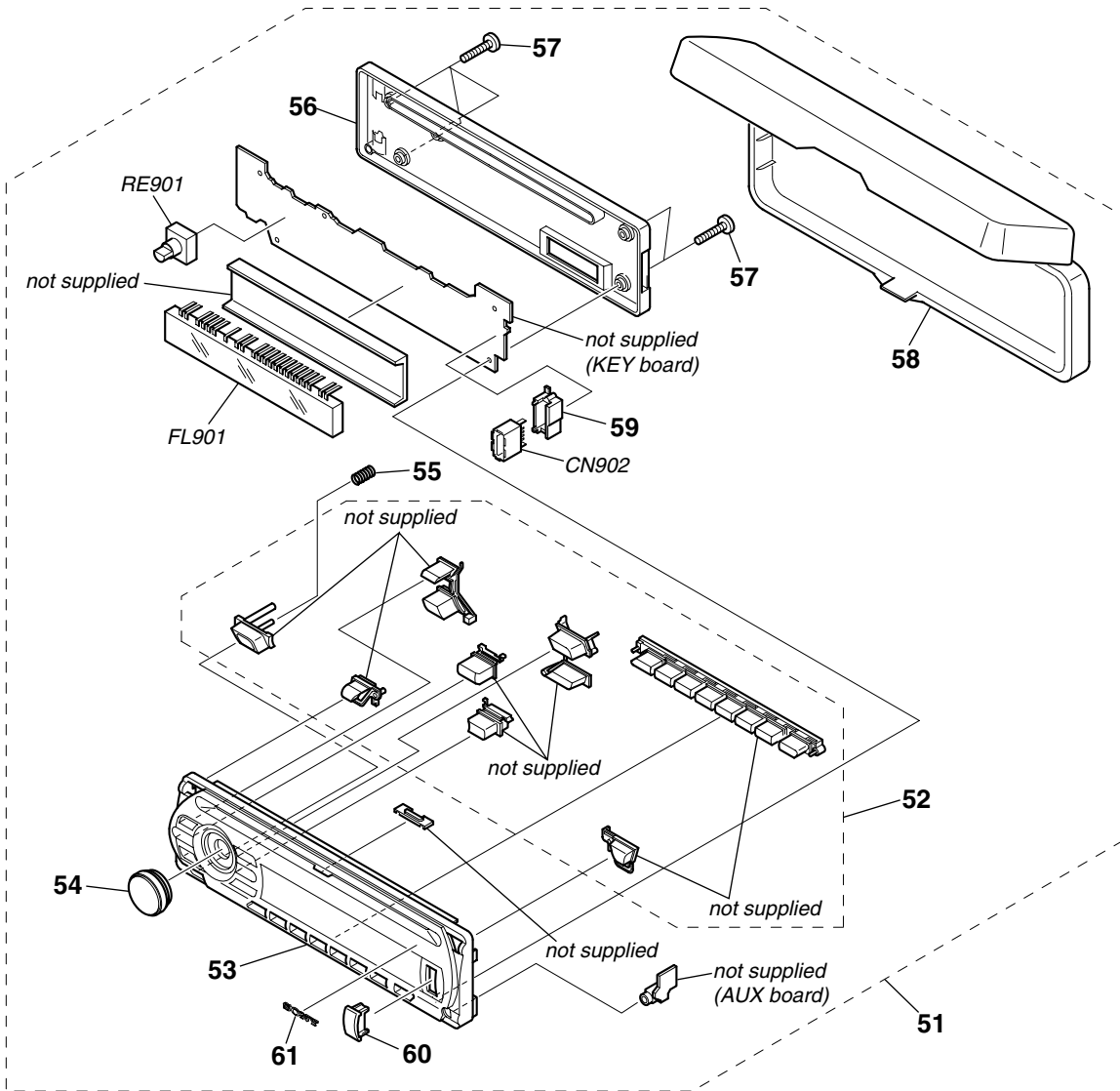
# CDX-GT410U/GT414U

Pin No.	Pin Name	I/O	Pin Description
55	NCO	O	Not used. (Open)
56	DAVN	I	RDS (Radio Data System) data block synchronized detect signal input
57	NCO	O	Not used. (Open)
58	UNISI	I	SONY bus data signal input
59	UNISO	O	SONY bus data signal output
60	UNISCK	O	SONY bus clock signal output
61	Z MUTE	I	Mute signal input
62	$\overline{\text{NOSE SW}}$	I	Front panel attachment detect signal input "L": With panel, "H": Without panel
63	FLASH W	I	Memory mode change signal input Normally "H": Single chip mode, after reset "L": flash write mode
64	SIRCS	I	Remote control signal input
65 to 70	NCO	O	Not used. (Open)
71	RC IN1	I	Rotary commander shift key signal input Not used in this set.
72 to 74	NCO	O	Not used. (Open)
75	FSW OUT	O	D/D converter oscillator frequency shift control signal output "L": 350 kHz, "H": 415 kHz
76	NCO	O	Not used. (Open)
77	$\overline{\text{RESET}}$	I	CPU reset signal input
78	NCO (OPEN REQ)	O	Not used. (Open)
79	XIN	I	Low speed operation clock signal input (32.768 kHz)
80	XOUT	O	Low speed operation clock signal output (32.768 kHz)
81	VSS1	—	Ground pin
82	OSCIN	I	High speed operation clock signal input (18.432 MHz)
83	OSCOU	O	High speed operation clock signal output (18.432 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	CYRIL SEL	I	Cyril correspondence discrimination signal input "L": No correspondence
86	DEMOSEL	I	DEMO select signal input "H": DEMO on, "L": DEMO off
87	NCO	O	Not used. (Open)
88	$\overline{\text{SYSRST}}$	O	System reset signal output
89	FL ON	O	Fluorescent indicator tube power on/off control signal output
90	DD ON	O	D/D converter power on/off control signal output
91	USB OVER	I	USB overcurrent detection signal input "L": Overcurrent detection
92	USB ON	O	USB overcurrent detection IC control signal output "H": On, "L": Off
93	WAKE UP	O	Mechanism microcomputer wake up signal output "H": Wake up, "L": Sleep
94	CDON	I	CD mechanism servo power supply control request signal input
95	CDMON	I	CD mechanism deck power supply control request signal input
96	$\overline{\text{BUSON}}$	O	Bus on signal output
97	$\overline{\text{TESTIN}}$	I	Test mode detect signal input
98	TELATT	I	Telephone attenuate detect signal input
99	$\overline{\text{ACC IN}}$	I	Accessory power supply detect signal input
100	ATT	O	Audio mute control signal output



# CDX-GT410U/GT414U

## 5-2. FRONT PANEL SECTION

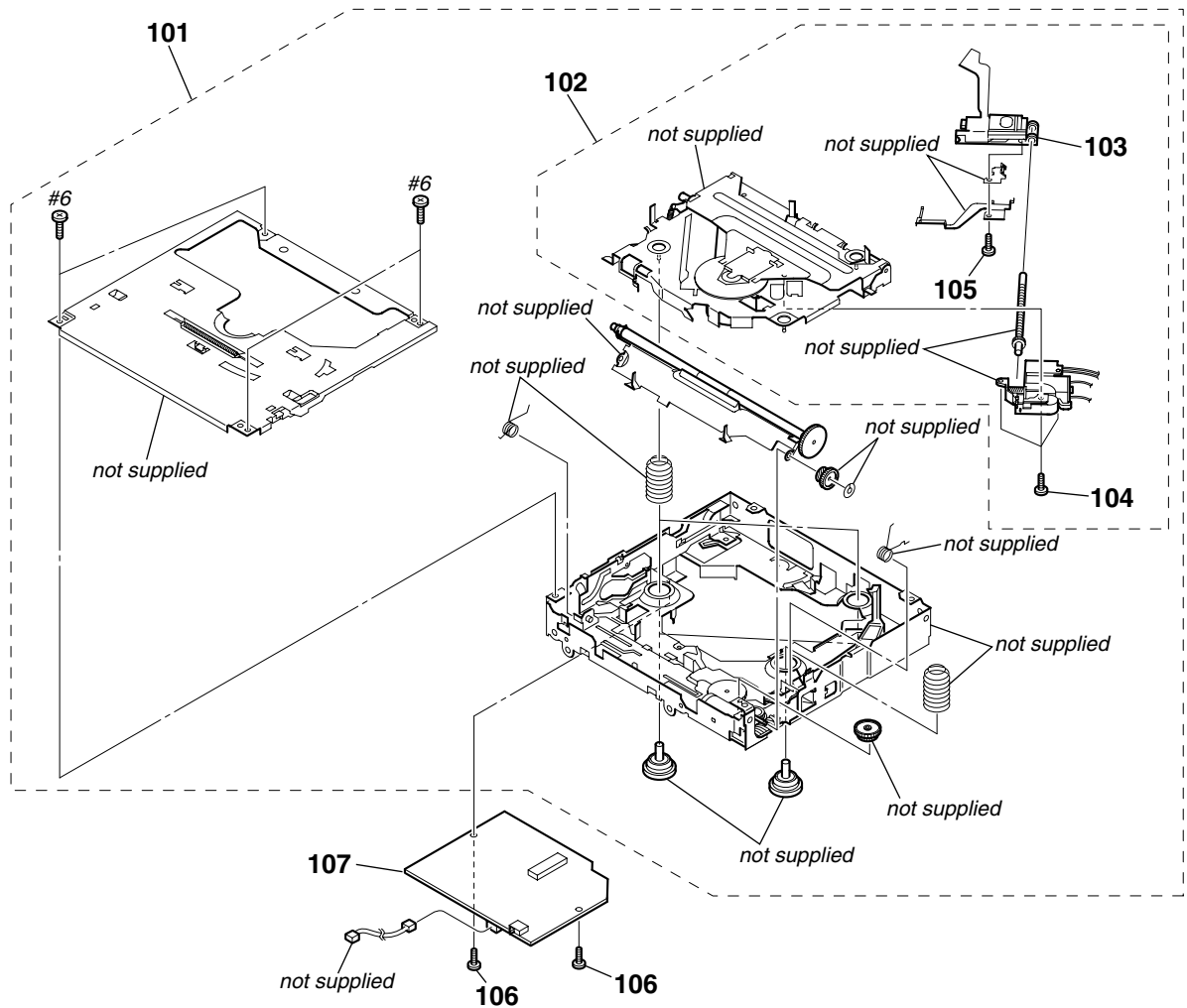


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-1215-205-A	PANEL COMPLETE ASSY, FRONT (GT410U:AEP,UK)		55	2-693-599-01	SPRING (RELEASE)	
51	A-1215-215-A	PANEL COMPLETE ASSY, FRONT (GT414U:AEP,UK)		56	2-686-937-01	PANEL (FL-U), BACK	
51	A-1226-240-A	PANEL COMPLETE ASSY, FRONT (GT410U:RU)		57	3-250-543-21	SCREW (+B P-TITE M2)	
51	A-1228-536-A	PANEL COMPLETE ASSY, FRONT (GT414U:RU)		58	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
52	X-2149-754-1	BUTTON ASSY (S) (GT410U)		59	2-686-941-01	HOLDER (USB)	
52	X-2149-755-1	BUTTON ASSY (S) (GT414U)		60	2-686-945-01	CAP (USB)	
53	X-2149-758-1	PANEL (SV) ASSY, FRONT (GT410U)		61	3-251-320-01	EMBLEM (NO. 2.5), SONY	
53	X-2149-759-1	PANEL (SV) ASSY, FRONT (GT414U)		CN902	1-820-877-11	CONNECTOR, USB (SOCKET) (USB)	
54	X-2149-353-1	KNOB (VOL) (SV) ASSY		FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT	
				RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT,VOLUME)	



5-3. CD MECHANISM SECTION  
(MG-101U-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-1206-357-A	SERVO BOARD, COMPLETE	
104	2-626-869-01	SCREW (M2X3), SERRATION		#7	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.. : μA.. uPA.. : μPA..  
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS  
uF : μF
- COILS  
uH : μH

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

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

- Abbreviation  
RU: Russia model

Ref. No.	Part No.	Description	Remark
		AUX BOARD *****	
		< FERRITE BEAD >	
FB901	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB902	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB903	1-500-245-11	INDUCTOR, FERRITE BEAD	
		< JACK >	
J901	1-819-732-21	JACK (DIA. 3.5) (AUX)	
*****			
		KEY BOARD *****	
		< CAPACITOR >	
C905	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C974	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C975	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C976	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C977	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
C979	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C981	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C982	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C991	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C992	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
		< CONNECTOR >	
CN901	1-820-620-11	PLUG, CONNECTOR 24P	
		< DIODE >	
D903	8-719-057-80	DIODE MA8180-M-TX	
D904	8-719-057-80	DIODE MA8180-M-TX	
D905	8-719-977-12	DIODE DTZ6.8B	
D906	8-719-977-12	DIODE DTZ6.8B	
D907	8-719-977-12	DIODE DTZ6.8B	
D908	8-719-977-12	DIODE DTZ6.8B	
D951	1-804-988-21	VARISTOR, CHIP (1608)	
D953	1-804-988-21	VARISTOR, CHIP (1608)	
D955	1-804-988-21	VARISTOR, CHIP (1608)	
D971	8-719-420-90	DIODE MA8051-M	
		< FERRITE BEAD >	
FB904	1-469-876-11	INDUCTOR, FERRITE BEAD	
FB905	1-469-876-11	INDUCTOR, FERRITE BEAD	

Ref. No.	Part No.	Description	Remark
FB906	1-216-295-11	SHORT CHIP 0	
FB907	1-216-295-11	SHORT CHIP 0	
		< FLUORESCENT INDICATOR TUBE >	
FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC971	6-600-163-01	IC RS-770 (IR)	
IC972	6-706-715-01	IC NJM2867F33(TE2)	
		< DIODE >	
LED841	8-719-078-21	LED SML-310PTT86 ( $\triangle$ )	
LED842	8-719-078-21	LED SML-310PTT86 (CD INDICATOR)	
LED843	8-719-078-21	LED SML-310PTT86 (OFF)	
LED844	8-719-078-21	LED SML-310PTT86 (EQ3)	
LED845	8-719-078-21	LED SML-310PTT86 (PTY)	
LED846	8-719-078-21	LED SML-310PTT86 (SOURCE)	
LED847	8-719-078-21	LED SML-310PTT86 (MODE)	
LED850	8-719-078-21	LED SML-310PTT86 (DSPL/DIM)	
LED851	8-719-078-21	LED SML-310PTT86 (1/GP/ALBM-)	
LED852	8-719-078-21	LED SML-310PTT86 (2/GP/ALBM+)	
LED853	8-719-078-21	LED SML-310PTT86 (3/REP)	
LED854	8-719-078-21	LED SML-310PTT86 (4/SHUF)	
LED855	8-719-078-21	LED SML-310PTT86 (5)	
LED856	8-719-078-21	LED SML-310PTT86 (6/PAUSE)	
LED857	8-719-078-21	LED SML-310PTT86 (AF/TA)	
LED861	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
LED862	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
LED863	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
LED864	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
LED941	8-719-053-09	LED SML-310VTT86 ( $\triangle$ )	
LED942	8-719-053-09	LED SML-310VTT86 (CD INDICATOR)	
LED943	8-719-053-09	LED SML-310VTT86 (OFF)	
LED944	8-719-053-09	LED SML-310VTT86 (EQ3)	
LED945	8-719-053-09	LED SML-310VTT86 (PTY)	
LED946	8-719-053-09	LED SML-310VTT86 (SOURCE)	
LED947	8-719-053-09	LED SML-310VTT86 (MODE)	
LED950	8-719-053-09	LED SML-310VTT86 (DSPL/DIM)	
LED951	8-719-053-09	LED SML-310VTT86 (1/GP/ALBM-)	
LED952	8-719-053-09	LED SML-310VTT86 (2/GP/ALBM+)	
LED953	8-719-053-09	LED SML-310VTT86 (3/REP)	
LED954	8-719-053-09	LED SML-310VTT86 (4/SHUF)	
LED955	8-719-053-09	LED SML-310VTT86 (5)	
LED956	8-719-053-09	LED SML-310VTT86 (6/PAUSE)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LED957	8-719-053-09	LED SML-310VTT86 (AF/TA)		R910	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
LED961	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)		R911	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
LED962	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)		R912	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
LED963	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)		R913	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
		< COIL >		R914	1-216-828-11	METAL CHIP 3.9K 5%	1/10W
LF901	1-457-223-11	COIL, COMMON MODE CHOKE		R915	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
		< SWITCH >		R921	1-216-295-11	SHORT CHIP 0	
LSW901	1-798-018-11	SWITCH, TACTILE (WITH LED)		R922	1-216-295-11	SHORT CHIP 0	
		(▶▶▶▶ SEEK +)		R941	1-216-813-11	METAL CHIP 220 5%	1/10W
LSW902	1-798-018-11	SWITCH, TACTILE (WITH LED)		R942	1-216-813-11	METAL CHIP 220 5%	1/10W
		(◀◀◀◀ SEEK -)		R943	1-216-812-11	METAL CHIP 180 5%	1/10W
		< TRANSISTOR >		R944	1-216-811-11	METAL CHIP 150 5%	1/10W
Q881	8-729-600-22	TRANSISTOR 2SA1235-F		R945	1-216-812-11	METAL CHIP 180 5%	1/10W
Q882	8-729-600-22	TRANSISTOR 2SA1235-F		R946	1-216-811-11	METAL CHIP 150 5%	1/10W
Q883	8-729-600-22	TRANSISTOR 2SA1235-F		R947	1-216-812-11	METAL CHIP 180 5%	1/10W
Q991	6-550-752-01	TRANSISTOR DTC614TKT146		R948	1-216-811-11	METAL CHIP 150 5%	1/10W
Q992	6-550-752-01	TRANSISTOR DTC614TKT146		R949	1-216-809-11	METAL CHIP 100 5%	1/10W
		< RESISTOR >		R950	1-216-809-11	METAL CHIP 100 5%	1/10W
R841	1-216-810-11	METAL CHIP 120 5%	1/10W	R951	1-216-809-11	METAL CHIP 100 5%	1/10W
R842	1-216-810-11	METAL CHIP 120 5%	1/10W	R952	1-216-809-11	METAL CHIP 100 5%	1/10W
R843	1-216-811-11	METAL CHIP 150 5%	1/10W	R953	1-216-812-11	METAL CHIP 180 5%	1/10W
R844	1-216-810-11	METAL CHIP 120 5%	1/10W	R954	1-216-811-11	METAL CHIP 150 5%	1/10W
R845	1-216-811-11	METAL CHIP 150 5%	1/10W	R961	1-216-809-11	METAL CHIP 100 5%	1/10W
R846	1-216-810-11	METAL CHIP 120 5%	1/10W	R962	1-216-809-11	METAL CHIP 100 5%	1/10W
R847	1-216-811-11	METAL CHIP 150 5%	1/10W	R971	1-216-809-11	METAL CHIP 100 5%	1/10W
R848	1-216-810-11	METAL CHIP 120 5%	1/10W	R975	1-216-811-11	METAL CHIP 150 5%	1/10W
R849	1-216-807-11	METAL CHIP 68 5%	1/10W	R976	1-216-811-11	METAL CHIP 150 5%	1/10W
R850	1-216-807-11	METAL CHIP 68 5%	1/10W	R977	1-216-809-11	METAL CHIP 100 5%	1/10W
R851	1-216-807-11	METAL CHIP 68 5%	1/10W	R978	1-216-864-11	SHORT CHIP 0	
R852	1-216-807-11	METAL CHIP 68 5%	1/10W	R981	1-218-893-11	METAL CHIP 82K 0.5%	1/10W
R853	1-216-811-11	METAL CHIP 150 5%	1/10W	R982	1-216-841-11	METAL CHIP 47K 5%	1/10W
R854	1-216-810-11	METAL CHIP 120 5%	1/10W	R983	1-216-801-11	METAL CHIP 22 5%	1/10W
R861	1-216-811-11	METAL CHIP 150 5%	1/10W	R984	1-216-801-11	METAL CHIP 22 5%	1/10W
R862	1-216-810-11	METAL CHIP 120 5%	1/10W	R988	1-216-864-11	SHORT CHIP 0	
R863	1-216-811-11	METAL CHIP 150 5%	1/10W	R989	1-216-845-11	METAL CHIP 100K 5%	1/10W
R864	1-216-810-11	METAL CHIP 120 5%	1/10W	R993	1-216-809-11	METAL CHIP 100 5%	1/10W
R881	1-216-821-11	METAL CHIP 1K 5%	1/10W	R994	1-216-809-11	METAL CHIP 100 5%	1/10W
R882	1-216-821-11	METAL CHIP 1K 5%	1/10W	R995	1-216-809-11	METAL CHIP 100 5%	1/10W
R883	1-216-821-11	METAL CHIP 1K 5%	1/10W			< NETWORK RESISTOR >	
R884	1-216-833-11	METAL CHIP 10K 5%	1/10W	RB901	1-239-662-81	RESISTOR, NETWORK 10X2	
R885	1-216-833-11	METAL CHIP 10K 5%	1/10W			< ROTARY ENCODER >	
R886	1-216-833-11	METAL CHIP 10K 5%	1/10W	RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT,VOLUME)	
R887	1-216-845-11	METAL CHIP 100K 5%	1/10W			< SWITCH >	
R888	1-216-845-11	METAL CHIP 100K 5%	1/10W	S901	1-786-653-21	SWITCH, TACTILE (▲)	
R889	1-216-845-11	METAL CHIP 100K 5%	1/10W	S902	1-786-653-21	SWITCH, TACTILE (OFF)	
R901	1-216-820-11	METAL CHIP 820 5%	1/10W	S903	1-786-653-21	SWITCH, TACTILE (SOURCE)	
R902	1-216-821-11	METAL CHIP 1K 5%	1/10W	S904	1-786-653-21	SWITCH, TACTILE (EQ3)	
R903	1-216-821-11	METAL CHIP 1K 5%	1/10W	S906	1-786-653-21	SWITCH, TACTILE (PTY)	
R904	1-216-822-11	METAL CHIP 1.2K 5%	1/10W	S907	1-786-653-21	SWITCH, TACTILE (MODE)	
R905	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S908	1-786-653-21	SWITCH, TACTILE (DSPL/DIM)	
R906	1-216-820-11	METAL CHIP 820 5%	1/10W	S909	1-786-653-21	SWITCH, TACTILE (1/GP/ALBM-)	
R907	1-216-821-11	METAL CHIP 1K 5%	1/10W	S910	1-786-653-21	SWITCH, TACTILE (2/GP/ALBM+)	
R908	1-216-821-11	METAL CHIP 1K 5%	1/10W	S911	1-786-653-21	SWITCH, TACTILE (3/REP)	
R909	1-216-822-11	METAL CHIP 1.2K 5%	1/10W	S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)	

# CDX-GT410U/GT414U

**KEY** **MAIN**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
S913	1-786-653-21	SWITCH, TACTILE (5)		C362	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
S914	1-786-653-21	SWITCH, TACTILE (6/PAUSE)		C363	1-126-160-11	ELECT 1uF 20%	50V
S915	1-786-653-21	SWITCH, TACTILE (AF/TA)		C364	1-126-160-11	ELECT 1uF 20%	50V
*****							
A-1215-203-A	MAIN BOARD, COMPLETE (AEP,UK)			C365	1-126-960-11	ELECT 1uF 20%	50V
A-1221-474-A	MAIN BOARD, COMPLETE (RU)			C366	1-126-960-11	ELECT 1uF 20%	50V
*****							
7-621-284-40	SCREW +P 2.6X10			C401	1-124-234-00	ELECT 22uF 20%	16V
7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			C402	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
7-685-794-09	SCREW +PTT 2.6X10 (S)			C403	1-124-584-00	ELECT 100uF 20%	10V
*****							
< CAPACITOR >							
C1	1-126-963-11	ELECT 4.7uF 20%	50V	C405	1-124-234-00	ELECT 22uF 20%	16V
C2	1-126-947-11	ELECT 47uF 20%	35V	C406	1-124-257-00	ELECT 2.2uF 20%	50V
C3	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C407	1-124-257-00	ELECT 2.2uF 20%	50V
C5	1-124-589-11	ELECT 47uF 20%	16V	C409	1-124-233-11	ELECT 10uF 20%	16V
C6	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C412	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C7	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C413	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C8	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C414	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C50	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C415	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C51	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C417	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C52	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C418	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C53	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C419	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C54	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C421	1-126-964-11	ELECT 10uF 20%	50V
C55	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C423	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C56	1-164-237-11	CERAMIC CHIP 16PF 5%	50V	C424	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C57	1-164-237-11	CERAMIC CHIP 16PF 5%	50V	C426	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C58	1-162-959-11	CERAMIC CHIP 330PF 5%	50V	C431	1-126-964-11	ELECT 10uF 20%	50V
C61	1-126-947-11	ELECT 47uF 20%	35V	C432	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C151	1-126-960-11	ELECT 1uF 20%	50V	C434	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C152	1-126-960-11	ELECT 1uF 20%	50V	C441	1-126-964-11	ELECT 10uF 20%	50V
C153	1-126-961-11	ELECT 2.2uF 20%	50V	C443	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C157	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V	C444	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C158	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V	C445	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C159	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V	C451	1-126-964-11	ELECT 10uF 20%	50V
C301	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C452	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C302	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C454	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C303	1-128-551-11	ELECT 22uF 20%	63V	C461	1-126-964-11	ELECT 10uF 20%	50V
C304	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C462	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C305	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C463	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C306	1-124-233-11	ELECT 10uF 20%	16V	C471	1-126-964-11	ELECT 10uF 20%	50V
C307	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C472	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C308	1-124-233-11	ELECT 10uF 20%	16V	C473	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C309	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C484	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C312	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C485	1-126-933-11	ELECT 100uF 20%	16V
C313	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C486	1-126-964-11	ELECT 10uF 20%	50V
C314	1-124-233-11	ELECT 10uF 20%	16V	C491	1-124-589-11	ELECT 47uF 20%	16V
C315	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C493	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C316	1-124-233-11	ELECT 10uF 20%	16V	C494	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C317	1-125-889-11	CERAMIC CHIP 2.2uF 10%	10V	C501	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C318	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C502	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C319	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C504	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C320	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C507	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C325	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C508	1-162-917-11	CERAMIC CHIP 15PF 5%	50V
C329	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C509	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C330	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V	C510	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C361	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C512	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C513	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C514	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C515	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C516	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C519	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C600	1-126-935-11	ELECT	470uF 20% 16V	D106	8-719-977-12	DIODE DTZ6.8B	
C601	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D107	8-719-977-12	DIODE DTZ6.8B	
C622	1-126-924-11	ELECT	330uF 20% 10V	D108	8-719-977-12	DIODE DTZ6.8B	
C623	1-126-916-11	ELECT	1000uF 20% 6.3V	D109	8-719-977-12	DIODE DTZ6.8B	
C624	1-124-584-00	ELECT	100uF 20% 10V	D110	8-719-977-12	DIODE DTZ6.8B	
C625	1-124-584-00	ELECT	100uF 20% 10V	D111	8-719-977-12	DIODE DTZ6.8B	
C626	1-124-584-00	ELECT	100uF 20% 10V	D112	8-719-977-12	DIODE DTZ6.8B	
C681	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D113	8-719-977-12	DIODE DTZ6.8B	
C682	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D151	1-805-043-11	ABSORBER, CHIP SURGE	
C683	1-124-584-00	ELECT	100uF 20% 10V	D152	1-805-043-11	ABSORBER, CHIP SURGE	
C701	1-131-868-81	ELECT	3300uF 20% 16V	D153	8-719-057-80	DIODE MA8180-M-TX	
C702	1-164-005-11	CERAMIC CHIP	0.47uF 25V	D156	8-719-977-12	DIODE DTZ6.8B	
C703	1-164-005-11	CERAMIC CHIP	0.47uF 25V	D301	6-500-522-01	DIODE 10EDB40-TA1B2	
C704	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	D302	6-500-522-01	DIODE 10EDB40-TA1B2	
C705	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	D303	6-500-522-01	DIODE 10EDB40-TA1B2	
C706	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D304	6-500-522-01	DIODE 10EDB40-TA1B2	
C707	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D305	6-500-522-01	DIODE 10EDB40-TA1B2	
C801	1-126-933-11	ELECT	100uF 20% 16V	D306	6-500-522-01	DIODE 10EDB40-TA1B2	
C802	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D307	6-500-522-01	DIODE 10EDB40-TA1B2	
C803	1-124-589-11	ELECT	47uF 20% 16V	D308	6-500-522-01	DIODE 10EDB40-TA1B2	
C804	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D309	6-500-522-01	DIODE 10EDB40-TA1B2	
C805	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D310	6-500-522-01	DIODE 10EDB40-TA1B2	
C806	1-124-589-11	ELECT	47uF 20% 16V	D311	6-500-522-01	DIODE 10EDB40-TA1B2	
C807	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D312	6-500-522-01	DIODE 10EDB40-TA1B2	
C808	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D353	6-501-013-01	DIODE BAT54ALT1G	
C809	1-126-933-11	ELECT	100uF 20% 16V	D491	8-719-988-61	DIODE 1SS355TE-17	
C810	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D502	8-719-060-48	DIODE RB751V-40TE-17	
C811	1-124-584-00	ELECT	100uF 20% 10V	D503	8-719-988-61	DIODE 1SS355TE-17	
C812	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	D602	8-719-057-80	DIODE MA8180-M-TX	
C814	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D603	8-719-422-64	DIODE MA8062-M	
C815	1-126-933-11	ELECT	100uF 20% 16V	D604	8-719-057-80	DIODE MA8180-M-TX	
C816	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D605	8-719-057-80	DIODE MA8180-M-TX	
C818	1-126-933-11	ELECT	100uF 20% 16V	D606	8-719-072-70	DIODE MA2ZD14001S0	
C819	1-126-933-11	ELECT	100uF 20% 16V	D607	6-501-571-01	DIODE 1N5404-C311-3	
C820	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	D702	8-719-057-80	DIODE MA8180-M-TX	
C890	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D703	8-719-977-12	DIODE DTZ6.8B	
C891	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D704	8-719-057-80	DIODE MA8180-M-TX	
C892	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	D706	8-719-057-80	DIODE MA8180-M-TX	
C905	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D707	8-719-057-80	DIODE MA8180-M-TX	
C921	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	D801	8-719-420-90	DIODE MA8051-M	
C924	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	D802	6-501-657-01	DIODE MA24D5000BS0	
C951	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	D804	6-500-522-01	DIODE 10EDB40-TA1B2	
C953	1-216-864-11	SHORT CHIP	0	D901	8-719-057-80	DIODE MA8180-M-TX	
		< CONNECTOR >				< IC >	
CN300	1-774-701-21	PIN, CONNECTOR 16P		IC50	6-803-747-01	IC TDA7333013TR	
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P		IC300	6-705-359-02	IC TDA8588AJ/N2/R1 (RU)	
CN352	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P		IC300	6-705-359-11	IC TDA8588AJ/N2/R1/M5 (AEP,UK)	
CN370	1-820-621-11	SOCKET, CONNECTOR 24P		IC401	6-710-065-01	IC BD3442FS-E2	
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)		IC501	6-807-100-01	IC MB90F046PF-G-101E1	
		< DIODE >		IC601	6-703-884-01	IC BA8271F-E2	
D2	8-719-977-03	DIODE DTZ5.6B		IC602	6-709-458-01	IC XC61CN2802NR	
D101	8-719-988-61	DIODE 1SS355TE-17		IC681	6-704-529-01	IC XC6206P332PR	
D102	8-719-988-61	DIODE 1SS355TE-17		IC801	6-709-213-01	IC NJM2387ADL3(TE2)	
D103	8-719-977-12	DIODE DTZ6.8B		IC802	6-709-213-01	IC NJM2387ADL3(TE2)	
D104	8-719-977-12	DIODE DTZ6.8B		IC803	6-707-911-01	IC BD9778HFP	
D105	8-719-977-12	DIODE DTZ6.8B		IC804	6-710-624-01	IC TPS2051BDRG4	

# CDX-GT410U/GT414U

**MAIN**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< JACK >					
J1	1-815-185-13	JACK (ANTENNA)		JC929	1-216-296-11	SHORT CHIP	0
J652	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT REAR/SUB)		JC930	1-216-864-11	SHORT CHIP	0
		< JUMPER RESISTOR >		JC931	1-216-864-11	SHORT CHIP	0
JC1	1-216-864-11	SHORT CHIP	0	JC932	1-216-864-11	SHORT CHIP	0
JC4	1-216-296-11	SHORT CHIP	0	JC933	1-216-864-11	SHORT CHIP	0
JC5	1-216-296-11	SHORT CHIP	0	JC934	1-216-296-11	SHORT CHIP	0
JC8	1-216-296-11	SHORT CHIP	0	JC935	1-216-296-11	SHORT CHIP	0
JC9	1-216-864-11	SHORT CHIP	0	JC936	1-216-296-11	SHORT CHIP	0
JC10	1-216-296-11	SHORT CHIP	0	JC938	1-216-296-11	SHORT CHIP	0
JC11	1-216-864-11	SHORT CHIP	0	JC939	1-216-296-11	SHORT CHIP	0
JC12	1-216-296-11	SHORT CHIP	0	JC940	1-216-296-11	SHORT CHIP	0
JC14	1-216-296-11	SHORT CHIP	0	JC941	1-216-864-11	SHORT CHIP	0
JC16	1-216-296-11	SHORT CHIP	0	JC942	1-216-864-11	SHORT CHIP	0
JC17	1-216-864-11	SHORT CHIP	0	JC943	1-216-296-11	SHORT CHIP	0
JC18	1-216-864-11	SHORT CHIP	0			< COIL >	
JC19	1-216-296-11	SHORT CHIP	0	L1	1-216-295-11	SHORT CHIP	0
JC21	1-216-296-11	SHORT CHIP	0	L2	1-216-809-11	METAL CHIP	100 5% 1/10W
JC22	1-216-296-11	SHORT CHIP	0	L3	1-216-809-11	METAL CHIP	100 5% 1/10W
JC23	1-216-296-11	SHORT CHIP	0	L4	1-216-864-11	SHORT CHIP	0
JC24	1-216-864-11	SHORT CHIP	0	L50	1-216-295-11	SHORT CHIP	0
JC28	1-216-864-11	SHORT CHIP	0	L151	1-500-245-11	INDUCTOR, FERRITE BEAD	
JC29	1-216-296-11	SHORT CHIP	0	L300	1-456-617-11	COIL, CHOKE	
JC30	1-216-296-11	SHORT CHIP	0	L401	1-216-864-11	SHORT CHIP	0
JC31	1-216-296-11	SHORT CHIP	0	L402	1-216-295-11	SHORT CHIP	0
JC32	1-216-296-11	SHORT CHIP	0	L403	1-216-295-11	SHORT CHIP	0
JC33	1-216-296-11	SHORT CHIP	0	L405	1-469-876-11	INDUCTOR, FERRITE BEAD	
JC36	1-216-864-11	SHORT CHIP	0	L406	1-500-245-11	INDUCTOR, FERRITE BEAD	
JC38	1-216-296-11	SHORT CHIP	0	L407	1-216-864-11	SHORT CHIP	0
JC401	1-216-296-11	SHORT CHIP	0	L409	1-469-844-11	INDUCTOR	2.2uH
JC705	1-216-296-11	SHORT CHIP	0	L410	1-216-864-11	SHORT CHIP	0
JC810	1-216-296-11	SHORT CHIP	0	L411	1-216-864-11	SHORT CHIP	0
JC811	1-216-296-11	SHORT CHIP	0	L501	1-216-864-11	SHORT CHIP	0
JC901	1-216-864-11	SHORT CHIP	0	L802	1-416-831-11	INDUCTOR	100uH
JC902	1-216-296-11	SHORT CHIP	0	L803	1-457-384-11	COIL, CHOKE	47uH
JC903	1-216-296-11	SHORT CHIP	0	L804	1-216-295-11	SHORT CHIP	0
JC904	1-216-864-11	SHORT CHIP	0	L805	1-216-295-11	SHORT CHIP	0
JC905	1-216-864-11	SHORT CHIP	0	L818	1-457-383-11	COIL, CHOKE	100uH
JC906	1-216-296-11	SHORT CHIP	0	L901	1-216-295-11	SHORT CHIP	0
JC907	1-216-864-11	SHORT CHIP	0	L902	1-469-844-11	INDUCTOR	2.2uH
JC909	1-216-296-11	SHORT CHIP	0			< TRANSISTOR >	
JC910	1-216-864-11	SHORT CHIP	0	Q1	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JC911	1-216-296-11	SHORT CHIP	0	Q3	6-551-431-01	TRANSISTOR	2SC6027T100-QR
JC912	1-216-296-11	SHORT CHIP	0	Q50	8-729-600-22	TRANSISTOR	2SA1235-F
JC913	1-216-864-11	SHORT CHIP	0	Q401	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JC914	1-216-864-11	SHORT CHIP	0	Q402	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JC920	1-216-864-11	SHORT CHIP	0	Q411	8-729-027-43	TRANSISTOR	DTC114EKA-T146
JC921	1-216-864-11	SHORT CHIP	0	Q412	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JC922	1-216-864-11	SHORT CHIP	0	Q420	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JC923	1-216-864-11	SHORT CHIP	0	Q432	6-550-752-01	TRANSISTOR	DTC614TKT146
JC924	1-216-296-11	SHORT CHIP	0	Q440	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JC926	1-216-296-11	SHORT CHIP	0	Q452	6-550-752-01	TRANSISTOR	DTC614TKT146
JC927	1-216-864-11	SHORT CHIP	0	Q460	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JC928	1-216-296-11	SHORT CHIP	0	Q470	8-729-027-44	TRANSISTOR	DTC114TKA-T146
				Q491	8-729-027-23	TRANSISTOR	DTA114EKA-T146
				Q492	8-729-027-43	TRANSISTOR	DTC114EKA-T146
				Q605	8-729-027-43	TRANSISTOR	DTC114EKA-T146

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146		R450	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R451	1-216-809-11	METAL CHIP 100 5%	1/10W
Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R452	1-216-809-11	METAL CHIP 100 5%	1/10W
Q805	8-729-027-43	TRANSISTOR DTC114EKA-T146		R460	1-216-809-11	METAL CHIP 100 5%	1/10W
		< RESISTOR >		R461	1-216-821-11	METAL CHIP 1K 5%	1/10W
R1	1-216-809-11	METAL CHIP 100 5%	1/10W	R462	1-216-833-11	METAL CHIP 10K 5%	1/10W
R2	1-216-839-11	METAL CHIP 33K 5%	1/10W	R470	1-216-809-11	METAL CHIP 100 5%	1/10W
R3	1-216-843-11	METAL CHIP 68K 5%	1/10W	R471	1-216-821-11	METAL CHIP 1K 5%	1/10W
R4	1-216-839-11	METAL CHIP 33K 5%	1/10W	R472	1-216-833-11	METAL CHIP 10K 5%	1/10W
R5	1-216-843-11	METAL CHIP 68K 5%	1/10W	R485	1-218-883-11	METAL CHIP 33K 0.5%	1/10W
R6	1-216-809-11	METAL CHIP 100 5%	1/10W	R491	1-216-805-11	METAL CHIP 47 5%	1/10W
R7	1-216-809-11	METAL CHIP 100 5%	1/10W	R493	1-216-864-11	SHORT CHIP 0	
R8	1-216-839-11	METAL CHIP 33K 5%	1/10W	R502	1-216-809-11	METAL CHIP 100 5%	1/10W
R9	1-216-843-11	METAL CHIP 68K 5%	1/10W	R503	1-216-809-11	METAL CHIP 100 5%	1/10W
R10	1-216-821-11	METAL CHIP 1K 5%	1/10W	R504	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R12	1-216-864-11	SHORT CHIP 0		R505	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R13	1-216-864-11	SHORT CHIP 0		R509	1-216-809-11	METAL CHIP 100 5%	1/10W
R15	1-216-864-11	SHORT CHIP 0		R510	1-216-809-11	METAL CHIP 100 5%	1/10W
R52	1-216-845-11	METAL CHIP 100K 5%	1/10W	R511	1-216-809-11	METAL CHIP 100 5%	1/10W
R53	1-216-797-11	METAL CHIP 10 5%	1/10W	R517	1-216-841-11	METAL CHIP 47K 5%	1/10W
R54	1-414-595-11	INDUCTOR, FERRITE BEAD		R519	1-216-845-11	METAL CHIP 100K 5%	1/10W
R55	1-216-797-11	METAL CHIP 10 5%	1/10W	R520	1-216-809-11	METAL CHIP 100 5%	1/10W
R57	1-216-833-11	METAL CHIP 10K 5%	1/10W	R521	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R58	1-216-821-11	METAL CHIP 1K 5%	1/10W	R522	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R60	1-216-864-11	SHORT CHIP 0		R523	1-216-809-11	METAL CHIP 100 5%	1/10W
R61	1-216-864-11	SHORT CHIP 0		R526	1-216-845-11	METAL CHIP 100K 5%	1/10W
R150	1-216-864-11	SHORT CHIP 0		R529	1-216-809-11	METAL CHIP 100 5%	1/10W
R151	1-216-817-11	METAL CHIP 470 5%	1/10W	R531	1-216-841-11	METAL CHIP 47K 5%	1/10W
R152	1-216-817-11	METAL CHIP 470 5%	1/10W	R532	1-216-845-11	METAL CHIP 100K 5%	1/10W
R153	1-216-834-11	METAL CHIP 12K 5%	1/10W	R533	1-216-845-11	METAL CHIP 100K 5%	1/10W
R154	1-216-834-11	METAL CHIP 12K 5%	1/10W	R534	1-216-833-11	METAL CHIP 10K 5%	1/10W
R155	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R536	1-216-845-11	METAL CHIP 100K 5%	1/10W
R156	1-216-864-11	SHORT CHIP 0		R537	1-216-845-11	METAL CHIP 100K 5%	1/10W
R157	1-216-864-11	SHORT CHIP 0		R540	1-216-845-11	METAL CHIP 100K 5%	1/10W
R158	1-216-864-11	SHORT CHIP 0		R544	1-216-809-11	METAL CHIP 100 5%	1/10W
R301	1-216-811-11	METAL CHIP 150 5%	1/10W	R551	1-216-845-11	METAL CHIP 100K 5%	1/10W
R302	1-216-841-11	METAL CHIP 47K 5%	1/10W	R552	1-216-845-11	METAL CHIP 100K 5%	1/10W
R351	1-216-845-11	METAL CHIP 100K 5%	1/10W	R553	1-216-839-11	METAL CHIP 33K 5%	1/10W
R354	1-216-864-11	SHORT CHIP 0		R555	1-216-845-11	METAL CHIP 100K 5%	1/10W
R355	1-216-833-11	METAL CHIP 10K 5%	1/10W	R556	1-216-845-11	METAL CHIP 100K 5%	1/10W
R356	1-216-833-11	METAL CHIP 10K 5%	1/10W	R557	1-216-809-11	METAL CHIP 100 5%	1/10W
R357	1-216-821-11	METAL CHIP 1K 5%	1/10W	R558	1-216-833-11	METAL CHIP 10K 5%	1/10W
R358	1-216-821-11	METAL CHIP 1K 5%	1/10W	R559	1-216-845-11	METAL CHIP 100K 5%	1/10W
R401	1-216-817-11	METAL CHIP 470 5%	1/10W	R561	1-216-845-11	METAL CHIP 100K 5%	1/10W
R402	1-216-817-11	METAL CHIP 470 5%	1/10W	R563	1-216-845-11	METAL CHIP 100K 5%	1/10W
R403	1-216-837-11	METAL CHIP 22K 5%	1/10W	R564	1-216-845-11	METAL CHIP 100K 5%	1/10W
R404	1-216-837-11	METAL CHIP 22K 5%	1/10W	R565	1-216-845-11	METAL CHIP 100K 5%	1/10W
R411	1-216-864-11	SHORT CHIP 0		R567	1-216-845-11	METAL CHIP 100K 5%	1/10W
R420	1-216-809-11	METAL CHIP 100 5%	1/10W	R568	1-216-849-11	METAL CHIP 220K 5%	1/10W
R421	1-216-821-11	METAL CHIP 1K 5%	1/10W	R570	1-216-809-11	METAL CHIP 100 5%	1/10W
R430	1-216-809-11	METAL CHIP 100 5%	1/10W	R573	1-216-845-11	METAL CHIP 100K 5%	1/10W
R431	1-216-809-11	METAL CHIP 100 5%	1/10W	R591	1-216-864-11	SHORT CHIP 0	
R440	1-216-809-11	METAL CHIP 100 5%	1/10W	R592	1-216-809-11	METAL CHIP 100 5%	1/10W
R442	1-216-821-11	METAL CHIP 1K 5%	1/10W	R593	1-216-809-11	METAL CHIP 100 5%	1/10W
R447	1-216-833-11	METAL CHIP 10K 5%	1/10W	R595	1-216-833-11	METAL CHIP 10K 5%	1/10W
R448	1-216-833-11	METAL CHIP 10K 5%	1/10W	R596	1-216-833-11	METAL CHIP 10K 5%	1/10W
R449	1-216-833-11	METAL CHIP 10K 5%	1/10W	R597	1-216-864-11	SHORT CHIP 0	
				R598	1-216-864-11	SHORT CHIP 0	

# CDX-GT410U/GT414U

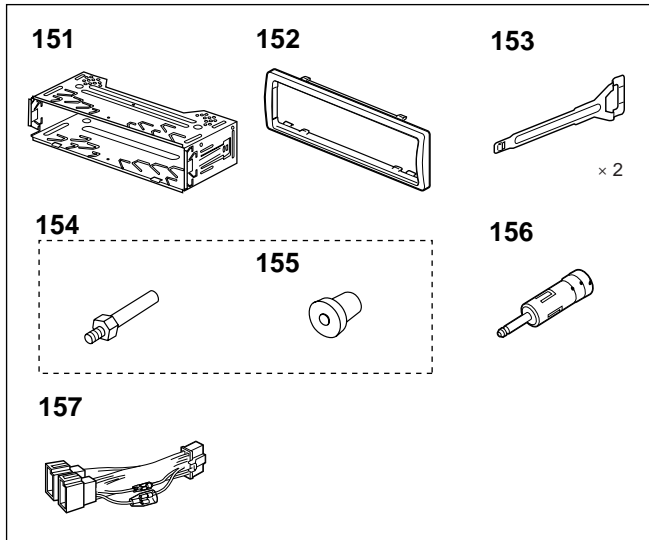
**MAIN** **SERVO**

Ref. No.	Part No.	Description	Remark
R599	1-216-864-11	SHORT CHIP	0
R600	1-216-845-11	METAL CHIP	100K 5% 1/10W
R601	1-216-851-11	METAL CHIP	330K 5% 1/10W
R602	1-216-851-11	METAL CHIP	330K 5% 1/10W
R603	1-216-821-11	METAL CHIP	1K 5% 1/10W
R604	1-216-835-11	METAL CHIP	15K 5% 1/10W
R606	1-216-821-11	METAL CHIP	1K 5% 1/10W
R607	1-216-821-11	METAL CHIP	1K 5% 1/10W
R611	1-216-864-11	SHORT CHIP	0
R612	1-216-809-11	METAL CHIP	100 5% 1/10W
R615	1-216-809-11	METAL CHIP	100 5% 1/10W
R616	1-216-864-11	SHORT CHIP	0
R636	1-216-845-11	METAL CHIP	100K 5% 1/10W
R671	1-216-809-11	METAL CHIP	100 5% 1/10W
R672	1-216-809-11	METAL CHIP	100 5% 1/10W
R673	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R674	1-216-845-11	METAL CHIP	100K 5% 1/10W
R701	1-216-821-11	METAL CHIP	1K 5% 1/10W
R702	1-216-841-11	METAL CHIP	47K 5% 1/10W
R703	1-216-833-11	METAL CHIP	10K 5% 1/10W
R704	1-216-833-11	METAL CHIP	10K 5% 1/10W
R705	1-249-425-11	CARBON	4.7K 5% 1/4W
R706	1-216-841-11	METAL CHIP	47K 5% 1/10W
R707	1-216-841-11	METAL CHIP	47K 5% 1/10W
R708	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R709	1-216-833-11	METAL CHIP	10K 5% 1/10W
R710	1-216-864-11	SHORT CHIP	0
R800	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R802	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R803	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R809	1-216-821-11	METAL CHIP	1K 5% 1/10W
R810	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R811	1-216-821-11	METAL CHIP	1K 5% 1/10W
R812	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R813	1-216-821-11	METAL CHIP	1K 5% 1/10W
R814	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R815	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R816	1-218-883-11	METAL CHIP	33K 0.5% 1/10W
R817	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
R818	1-218-878-11	METAL CHIP	20K 0.5% 1/10W
R819	1-216-844-11	METAL CHIP	82K 5% 1/10W
R820	1-216-851-11	METAL CHIP	330K 5% 1/10W
R890	1-216-864-11	SHORT CHIP	0
R891	1-216-864-11	SHORT CHIP	0
R901	1-216-809-11	METAL CHIP	100 5% 1/10W
R902	1-216-809-11	METAL CHIP	100 5% 1/10W
R903	1-216-809-11	METAL CHIP	100 5% 1/10W
R910	1-216-864-11	SHORT CHIP	0
R912	1-216-864-11	SHORT CHIP	0
R913	1-216-864-11	SHORT CHIP	0
R914	1-216-190-00	RES-CHIP	470 5% 1/8W
R915	1-216-190-00	RES-CHIP	470 5% 1/8W
R916	1-216-190-00	RES-CHIP	470 5% 1/8W
R917	1-216-845-11	METAL CHIP	100K 5% 1/10W
R918	1-216-864-11	SHORT CHIP	0
R919	1-216-864-11	SHORT CHIP	0
R920	1-216-864-11	SHORT CHIP	0
R923	1-216-864-11	SHORT CHIP	0

Ref. No.	Part No.	Description	Remark
R924	1-216-845-11	METAL CHIP	100K 5% 1/10W
R925	1-216-864-11	SHORT CHIP	0
R926	1-216-864-11	SHORT CHIP	0
R927	1-216-864-11	SHORT CHIP	0
R951	1-216-797-11	METAL CHIP	10 5% 1/10W
R952	1-216-797-11	METAL CHIP	10 5% 1/10W
R961	1-216-864-11	SHORT CHIP	0
< SWITCH >			
S103	1-786-826-11	SWITCH, TACTILE (RESET)	
< THERMISTOR (POSITIVE) >			
TH400	1-803-350-21	THERMISTOR, POSITIVE	
< TUNER UNIT >			
TU1	A-3220-961-B	TUNER UNIT (TUX-032)	
< VIBRATOR >			
X50	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz)	
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	
*****			
A-1206-357-A SERVO BOARD, COMPLETE			
*****			
*****			
MISCELLANEOUS			
*****			
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)	
△103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
CN902	1-820-877-11	CONNECTOR, USB (SOCKET) (USB)	
F901	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)			
2-890-967-31 MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH)			
2-890-967-61 MANUAL, INSTRUCTION (RUSSIAN) (RU)			
2-890-968-31 MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH)			
2-890-968-61 MANUAL, INSTRUCTION, INSTALL (RUSSIAN) (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	2-686-803-01	COLLAR	
153	3-246-471-01	KEY (FRAME)	
154	X-3382-926-1	SCREW ASSY (BS), FITTING	
155	3-349-410-11	BUSHING	
156	1-465-459-31	ADAPTOR, ANTENNA	
157	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)	



MEMO

