

CDX-S2250/S2250S

SERVICE MANUAL

Ver. 1.0 2004.11

AEP Model
UK Model



- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-611TA-186//K
Optical Pick-up Name	KSS1000E

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 – 108.0 MHz
Aerial terminal: External 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
LW: 153 – 279 kHz
Aerial terminal: External aerial connector
Intermediate frequency: 10.7 MHz/450 kHz
Sensitivity: MW: 30 µV, LW: 40 µV

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 50 W × 4 (at 4 ohms)

General

Outputs: Audio outputs terminal (rear/sub switchable)
Power aerial relay control terminal
Power amplifier control terminal
Inputs: Telephone ATT control terminal
Aerial input terminal
Tone controls: Low: ±10 dB at 60 Hz (XPLOD)
Mid: ±10 dB at 1 kHz (XPLOD)
High: ±10 dB at 10 kHz (XPLOD)
Power requirements: 12 V DC car battery (negative earth)
Dimensions: Approx. 178 × 50 × 178 mm (w/h/d)
Mounting dimensions: Approx. 182 × 53 × 161 mm (w/h/d)
Mass: Approx. 1.2 kg
Supplied accessories: Parts for installation and connections (1 set)
Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

9-879-324-01
2004K0479-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

SERVICE NOTES

CAUTION

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

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

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

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

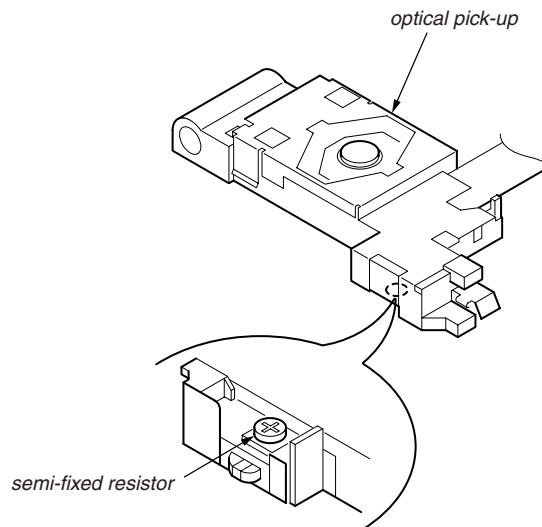
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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.

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.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)

CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

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.

- CD Playback:

You can play CD-DA (also containing CD TEXT*1), CD-R/CD-RW (MP3 files also containing Multi Session and ATRAC CD (ATRAC3 and ATRAC3plus format).

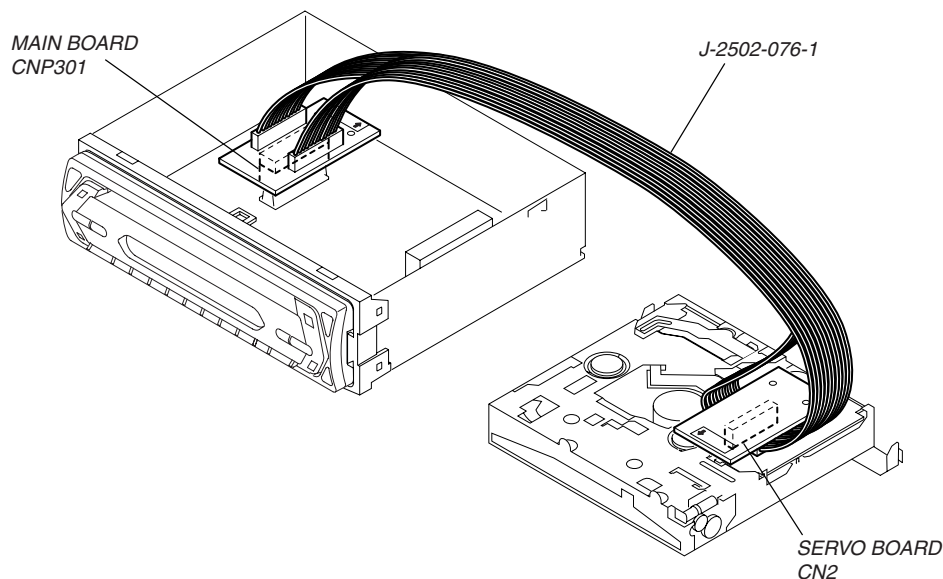
Type of discs	Label on the disc
CD-DA	 
MP3 ATRAC CD	   

*1 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 (CN751) 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.

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5. ELECTRICAL PARTS LIST

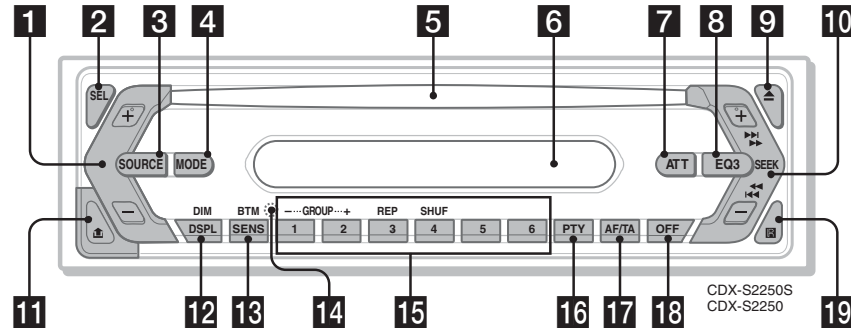
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SECTION 1 GENERAL

This section is extracted
from instruction manual.

Location of controls and basic operations

Main unit



Refer to the pages listed for details.

1 Volume +/- button

To adjust volume.

2 SEL (select) button 4, 8, 9

To select items.

3 SOURCE button

To power on/change the source (Radio/CD).

4 MODE button 6

To select the radio band (FM/MW/LW).

5 Disc slot

Insert the disc (label side up), playback starts.

6 Display window

7 ATT (attenuate) button

To attenuate the sound. To cancel, press again.

8 EQ3 (equalizer) button 8

To select an equalizer type (XPLOD, VOCAL, CLUB, JAZZ, NEW AGE, ROCK, CUSTOM or OFF).

9 Eject button

To eject the disc.

10 SEEK +/- button

Radio:

To tune in stations automatically (press); find a station manually (press and hold).

CD:

To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); fast-forward/reverse a track (press and hold).

11 (front panel release) button 4

12 DSPL (display)/DIM (dimmer) button

4, 6, 7

To change display items (press); change the display brightness (press and hold).

13 SENS/BTM button 6

To improve weak reception: LOCAL/MONO (press); start the BTM function (press and hold).

14 RESET button (located behind the front panel) 4

15 Number buttons

Radio:

To receive stored stations (press); store stations (press and hold).

CD:

①/②: GROUP* -/+

To skip groups (press); skip groups continuously (press and hold).

③: REP 6

④: SHUF 6

16 PTY (Programme Type) button 8

To select PTY in RDS.

17 AF (Alternative Frequencies)/TA (Traffic Announcement) button 7

To set AF and TA/TP in RDS.

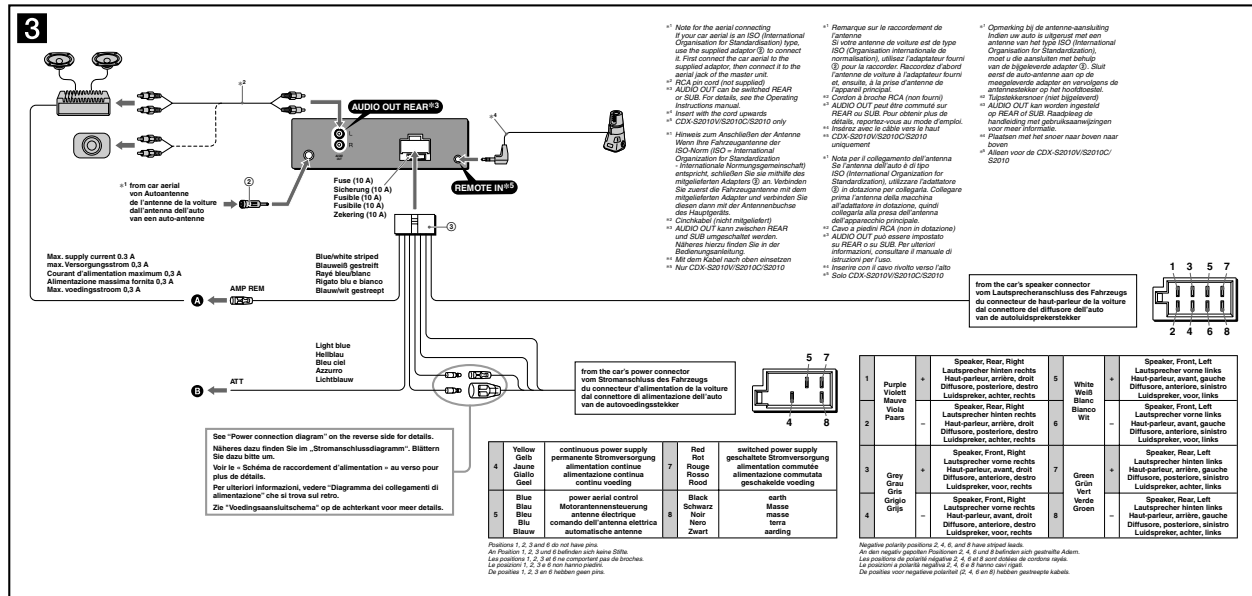
18 OFF button

To power off/stop the source.

19 Receptor for the card remote commander 9

* When an MP3/ATRAC CD is played.

Connections



Connection diagram (3)

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

Warning

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

Notes on the control power and supply leads

- The power 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 aerial in the rear side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial socket. For details, consult your dealer.
- A power aerial without a relay box cannot be used with this unit.

Memory hold connection

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

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the 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)

- 1 An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
- 2 Dieser Anschluß ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
- 3 An Schnittstellenkabel eines Autotelefons

Warnung

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

Strom- und Stromversorgungsleitungen

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

Hinweise zum Lautsprecheranschluß

- Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.
- Verwenden 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 Lautsprechers.
- Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (-) Lautsprecheranschluß.
- Verbinden Sie nicht Lautsprecher parallel.
- 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, verwenden 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

Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont correctement raccordés.

Schéma de raccordement (3)

- 1 Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif
- 2 Ce raccordement est réservé exclusivement aux amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
- 3 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 de puissance

- 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 (informations circulation).
- Lorsque votre voiture est équipée d'une antenne FM/MW (GO/LW) intégrée dans la vitre arrière latérale, raccordez le câble de commande d'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier 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 de commande d'antenne jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la 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.
- Né pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne raccorder pas les bornes des haut-parleurs droit à celles du haut-parleur gauche.
- Né pas raccorder le câble de masse (-) à la masse de cet appareil à la borne négative (-) du haut-parleur.
- Né pas tenter de raccorder les haut-parleurs en parallèle.
- La connexion inadéquate des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout dysfonctionnement, 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.
- Né raccorder pas entre eux les cordons des haut-parleurs de l'appareil.

Remarque sur le raccordement

Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont correctement raccordés.

Schema di collegamento (3)

- 1 A AMP REMOTE IN di un amplificatore di potenza opzionale
- 2 Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
- 3 Al cavo 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 sul cavo di controllo e di alimentazione

- Il cavo (blu) di controllo dell'antenna elettrica fornisce corrente continua a +12 V DC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).
- Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessori al terminale di alimentazione 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 di ingresso 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 o non collegare i terminali dei diffusori destro a quelli del diffusore sinistro.
- Non collegare il cavo di terra di questo apparecchio al terminale negativo (-) del diffusore.
- 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.

Note sul collegamento

Se l'altoparlante e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'altoparlante e il diffusore siano collegati correttamente.

Aansluitingschema (3)

- 1 Naar AMP REMOTE IN van een optionele eindversterker
- 2 Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.
- 3 Naar het interface-snoer van een autotelefoon

Waarschuwing

Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde interface-snoer (3) de antenne beschadigen.

Opmerkingen over de bedienings- en voedingskabels

- De antennevoedingskabel (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternatieve Frequentie) of TA (Traffic Announcement) functie activeert.
- Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruitvoorzijde, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsgang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaiskast te gebruiken.

Instandhouden van het geheugen

Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (-) draad is voor de rechter- en linkerluidsprekers.

Opmerkingen betreffende het aansluiten van de luidsprekers

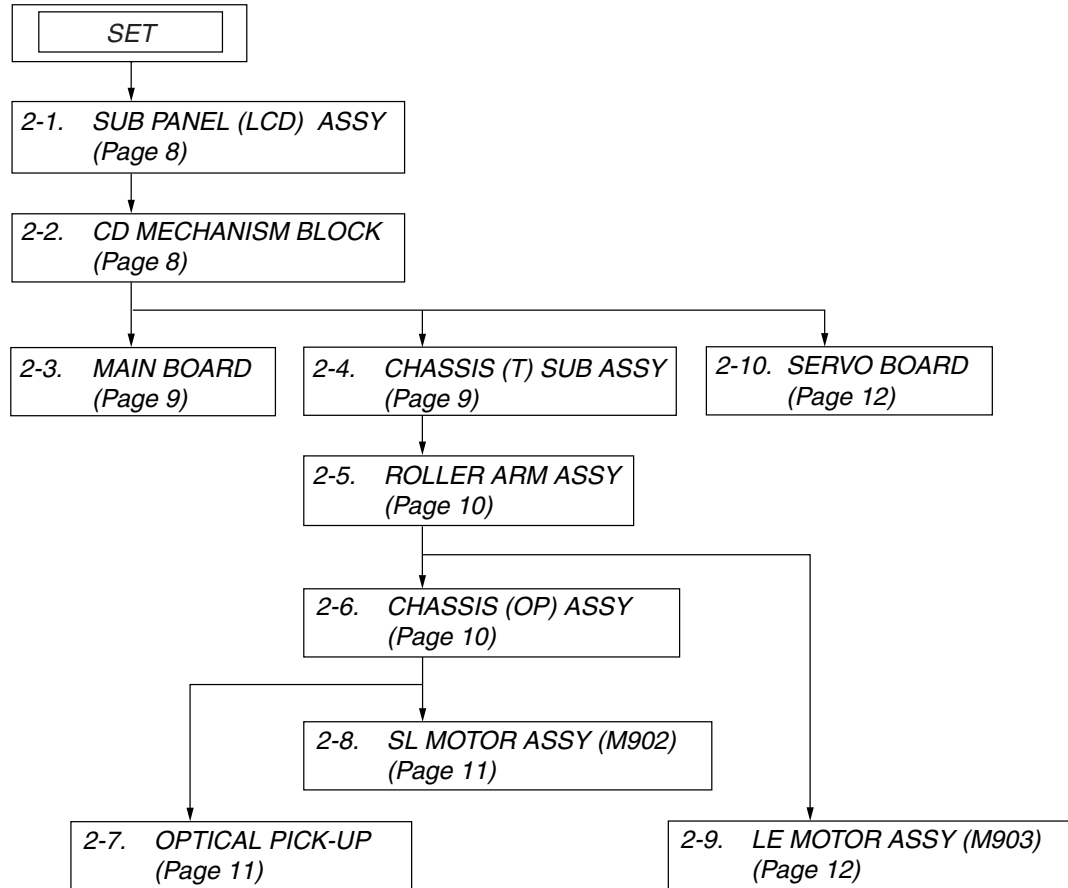
- Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.
- Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.
- Verbind de draad van dit apparaat niet met de negatieve (-) aansluiting van de luidspreker.
- Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. 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 (-) draad is voor de rechter- en linkerluidsprekers.
- Verbind de luidsprekerkabels niet met elkaar.

Opmerking over aansluiten

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

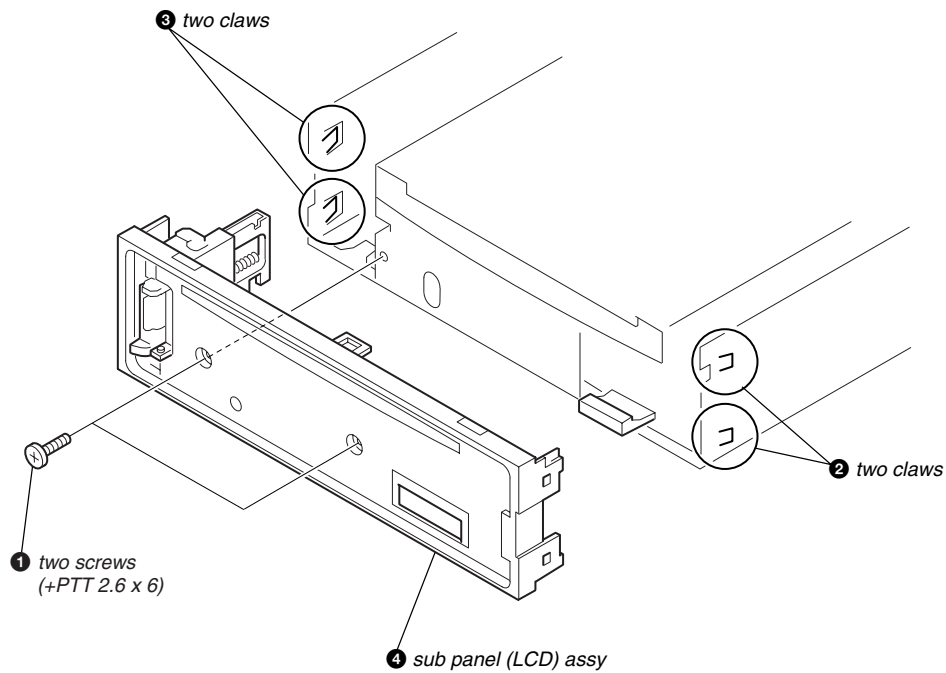
SECTION 2 DISASSEMBLY

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

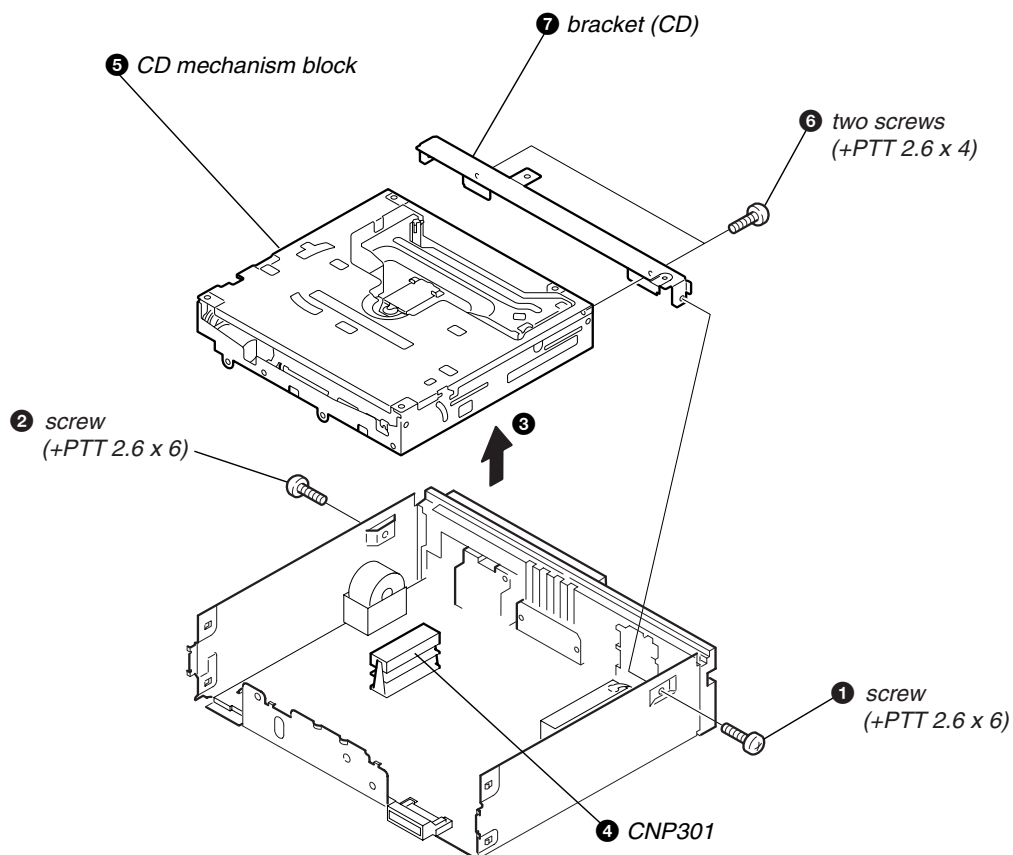


Note : Follow the disassembly procedure in the numerical order given.

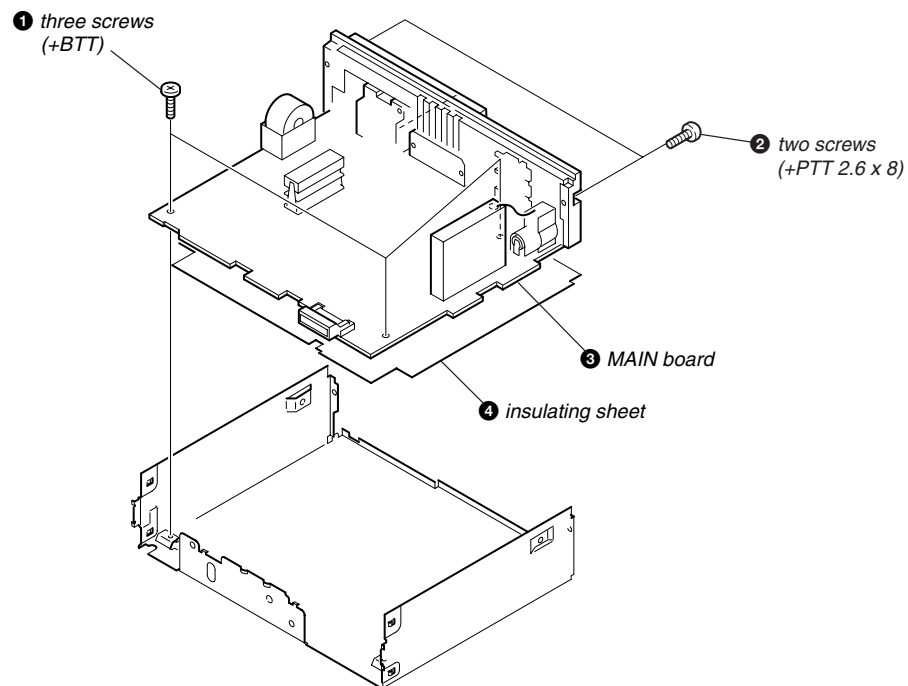
2-1. SUB PANEL (LCD) ASSY



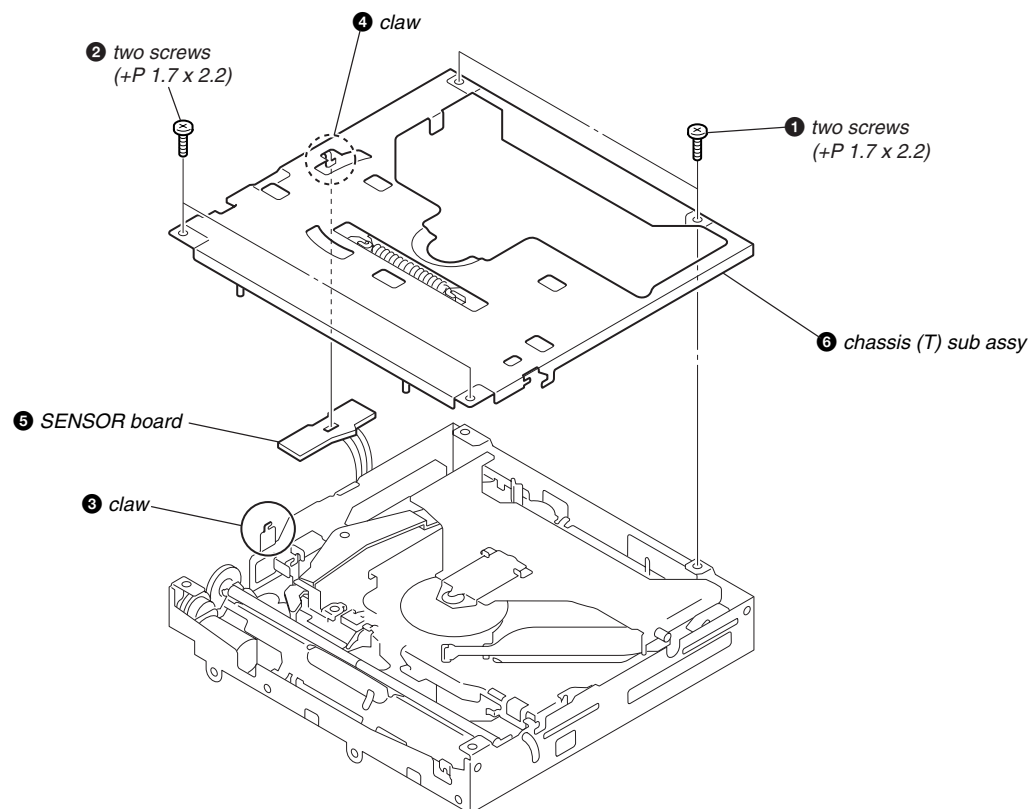
2-2. CD MECHANISM BLOCK



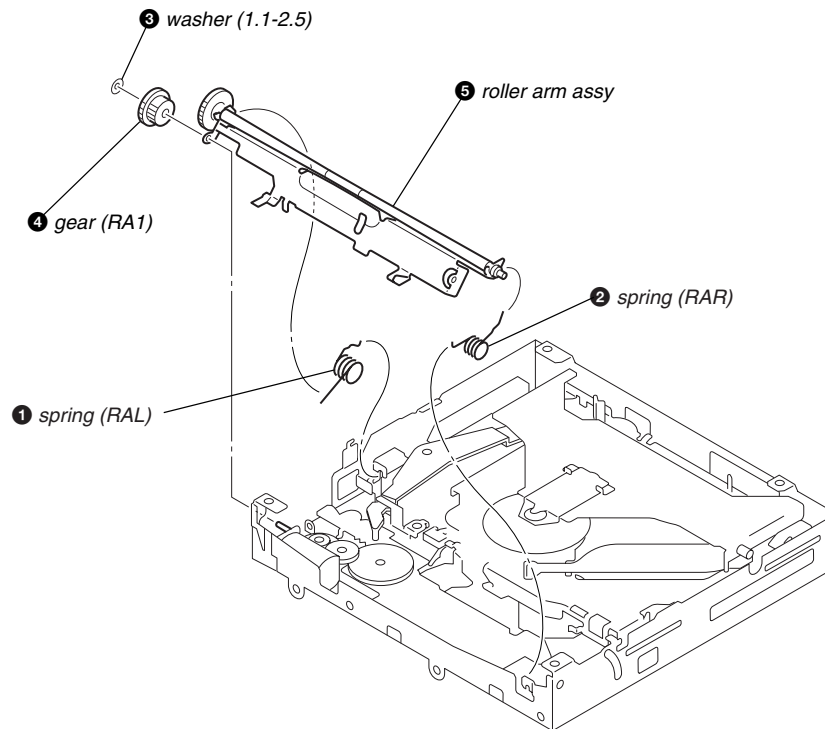
2-3. MAIN BOARD



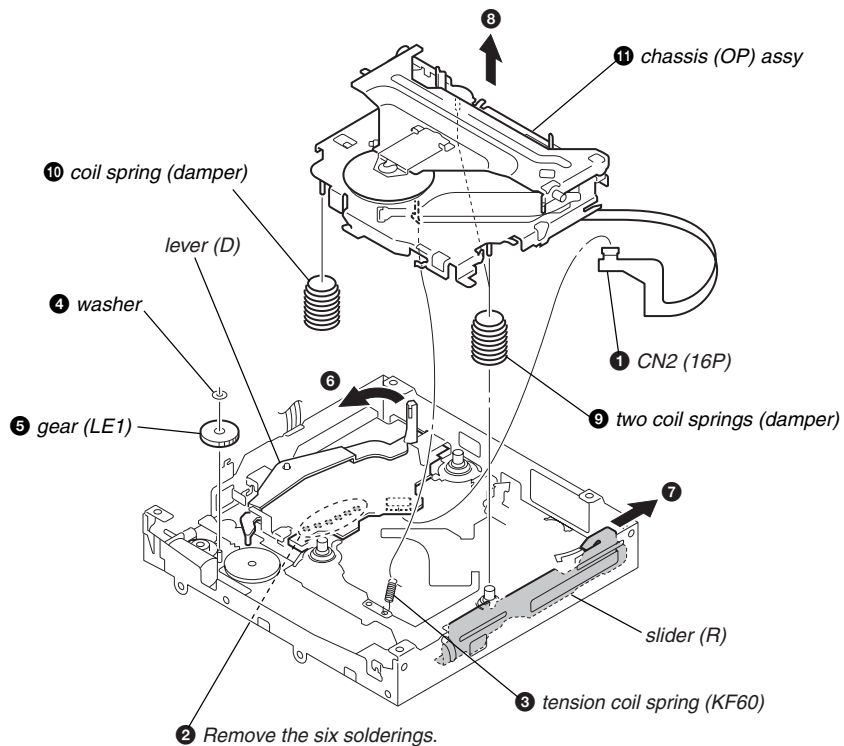
2-4. CHASSIS (T) SUB ASSY

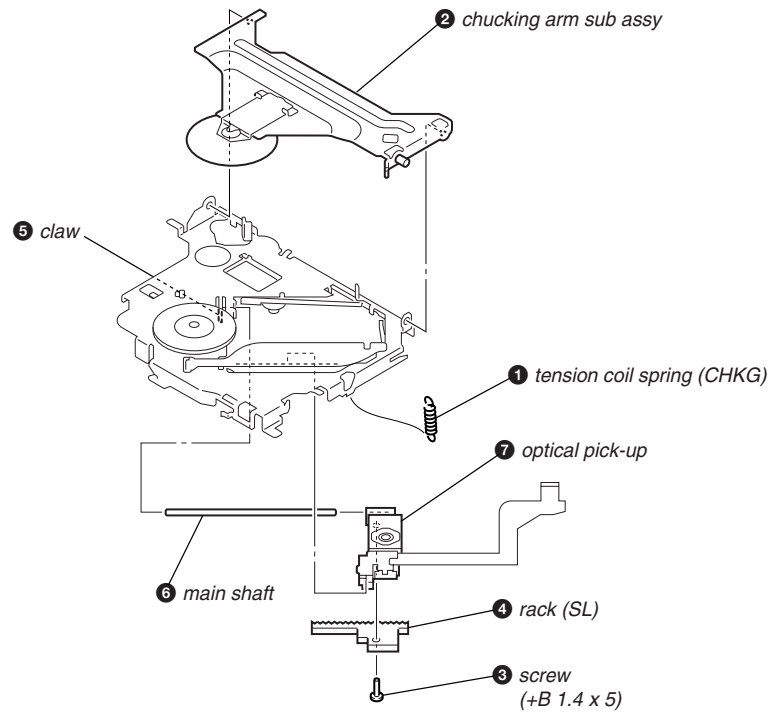
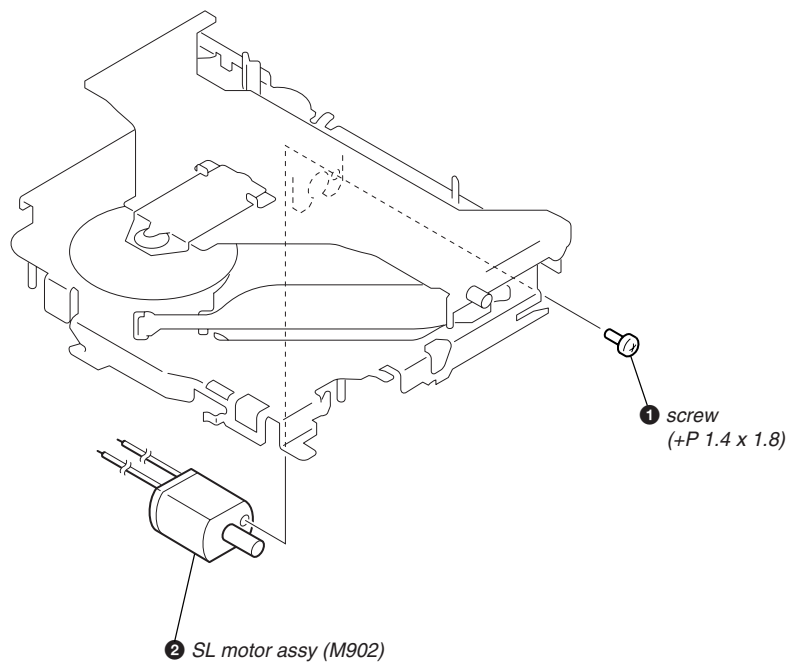


2-5. ROLLER ARM ASSY

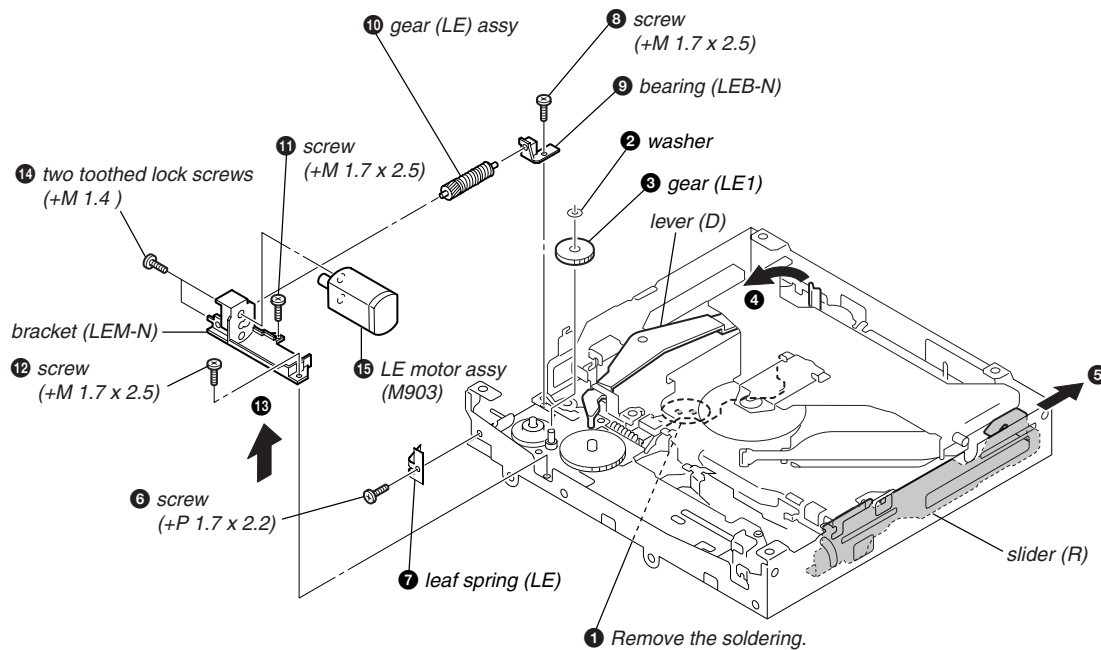


2-6. CHASSIS (OP) ASSY

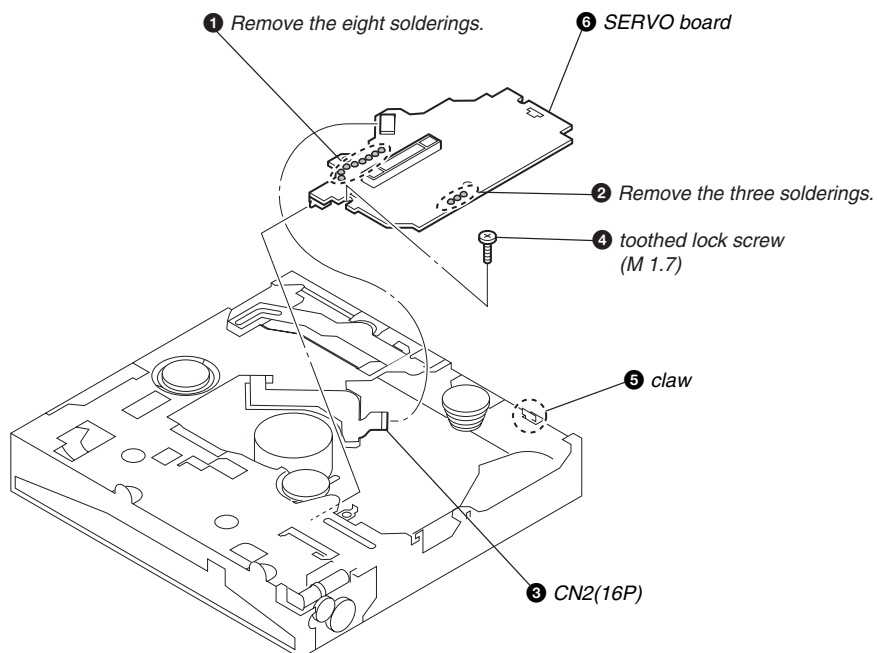


2-7. OPTICAL PICK-UP**2-8. SL MOTOR ASSY (M902)**

2-9. LE MOTOR ASSY (M903)

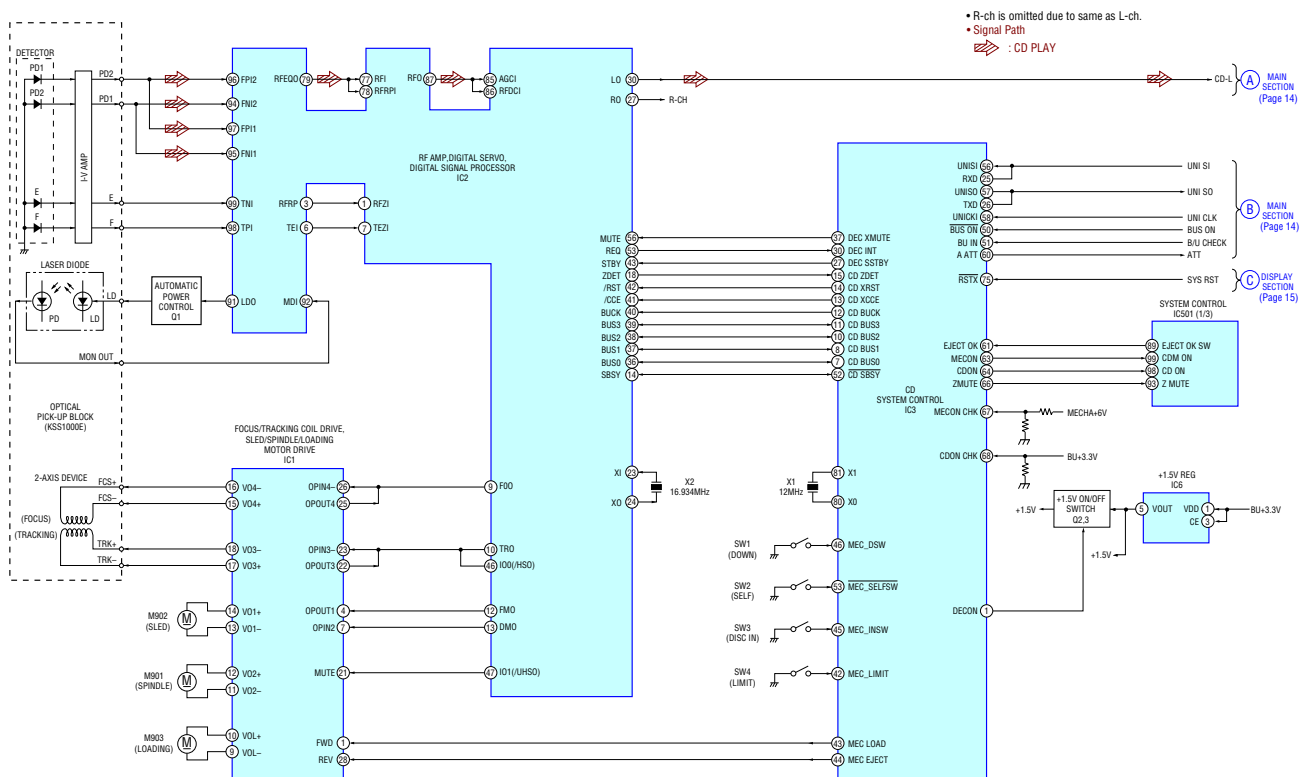


2-10. SERVO BOARD

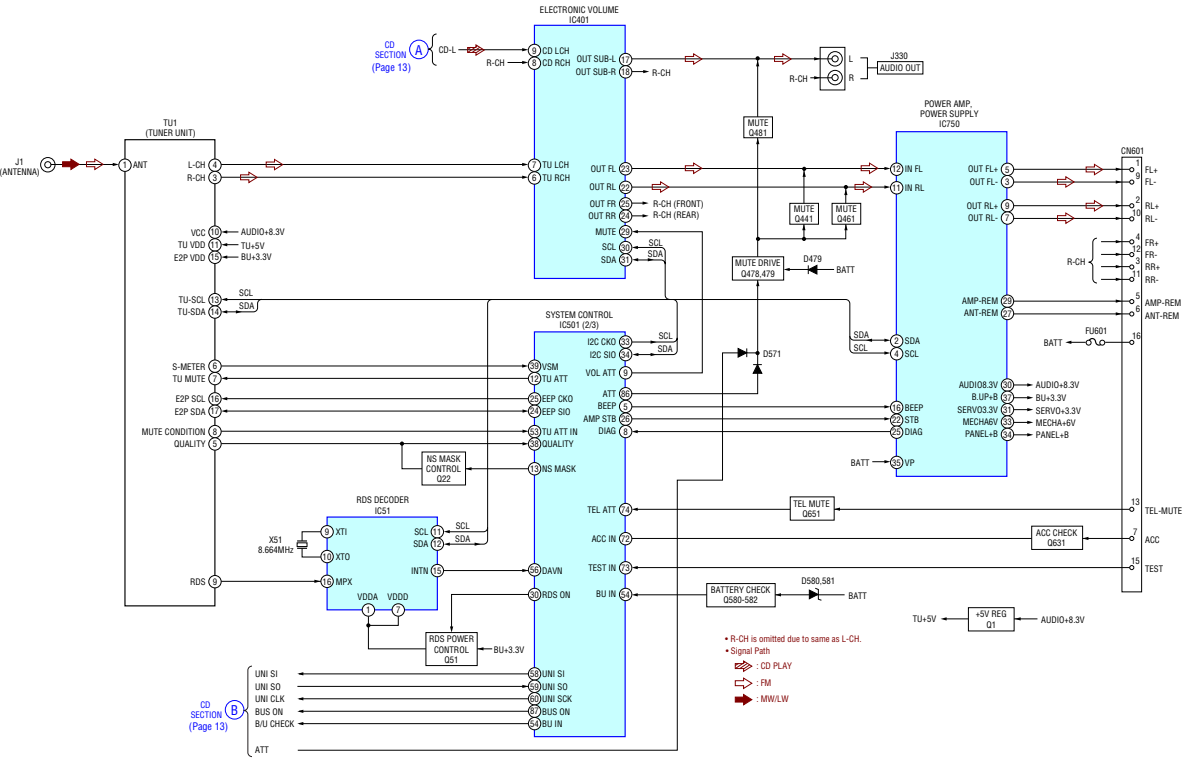


SECTION 3 DIAGRAMS

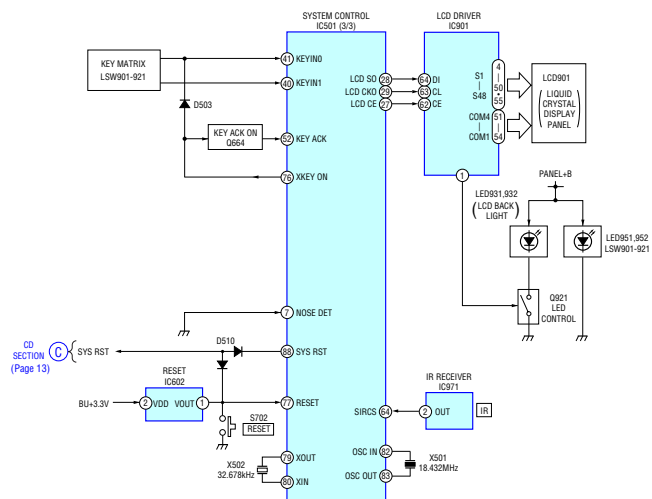
3-1. BLOCK DIAGRAM – CD SECTION –



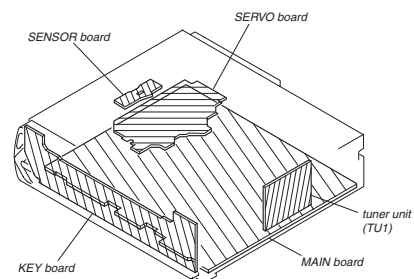
3-2. BLOCK DIAGRAM – MAIN SECTION –



3-3. BLOCK DIAGRAM – DISPLAY SECTION –



• Circuit Boards Location



CDX-S2250/S2250S

• 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.)

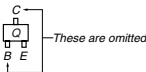
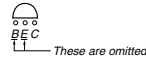
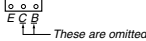
For schematic diagrams.
Note:
• All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
• Δ : internal component.
• $\square$: panel designation.

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

• --- : B+ Line.
• --- : B- Line.
• --- : adjustment for repair.
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
• CD mechanism section (1/2), (2/2)
no mark: CD PLAY
• Main (1/4), (2/4), (3/4), (4/4) and Display sections
no mark: FM
() : AM/MW/LW
> : 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.
• --- : CD PLAY
• --- : FM
• --- : MW/LW

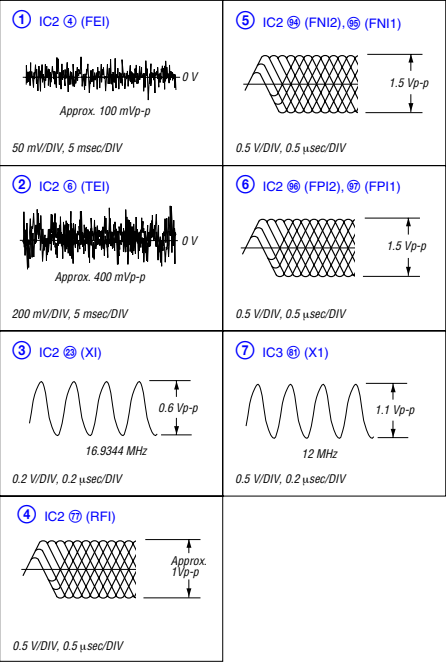
For printed wiring boards.
Note:
• --- : parts extracted from the component side.
• --- : parts extracted from the conductor side.
• $\bigcirc$: Through hole.
• --- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

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.

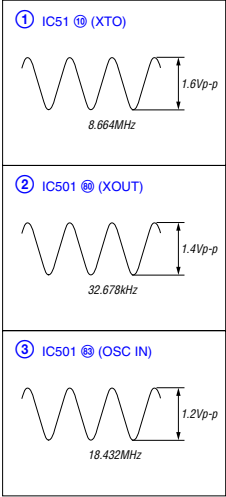




• Waveforms

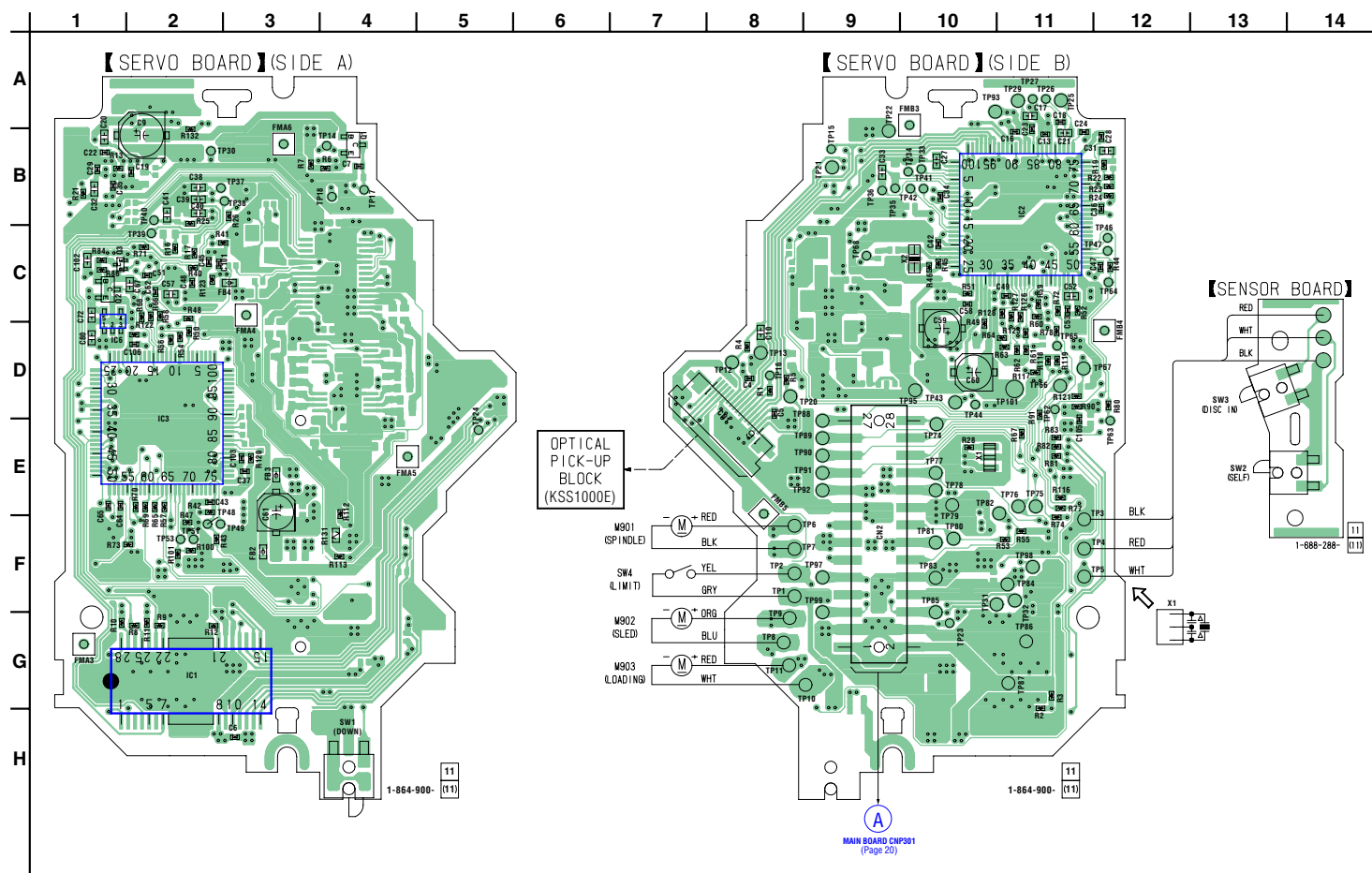
— SERVO Board —
(CD PLAY)



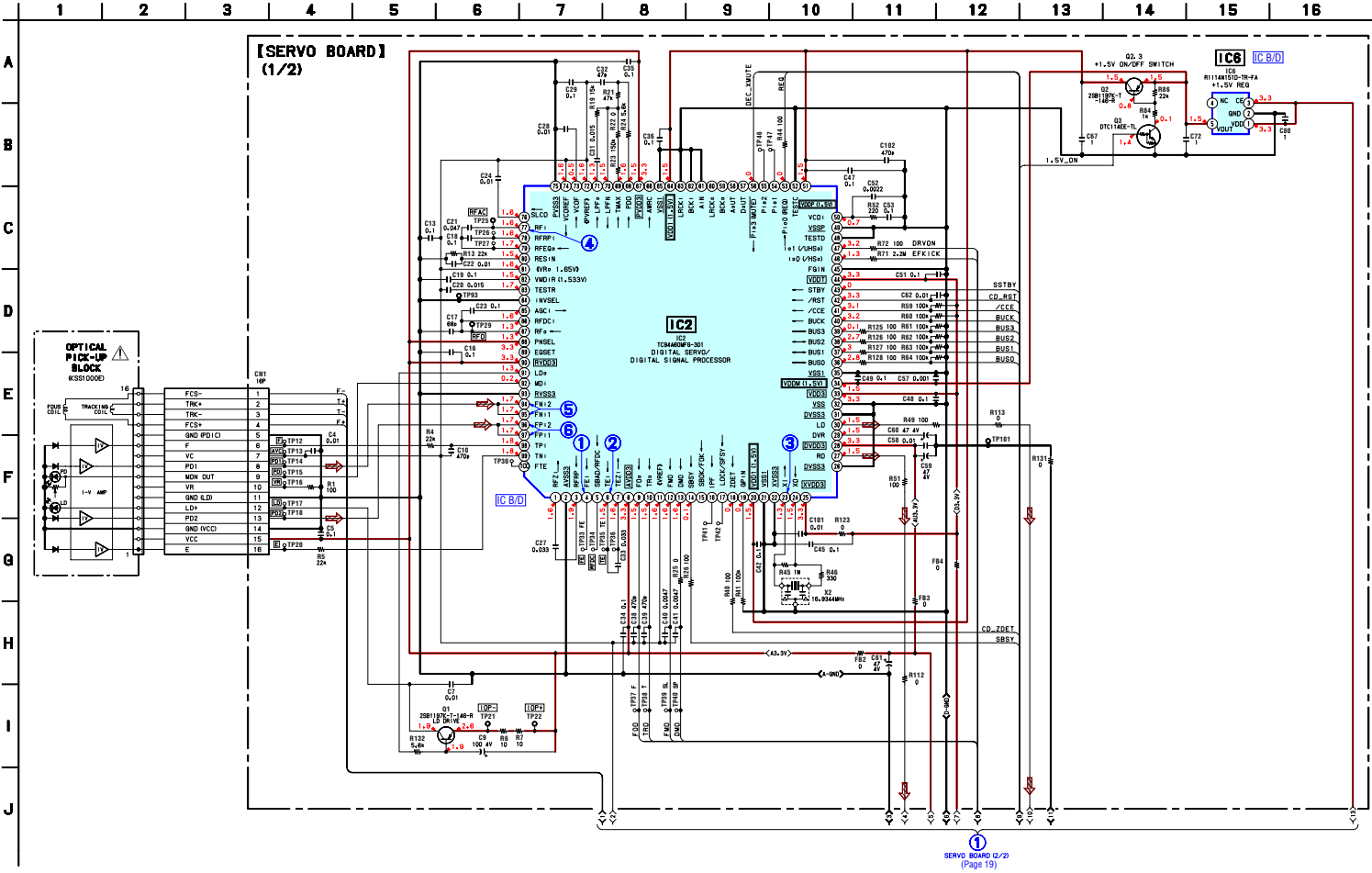
— MAIN Board —



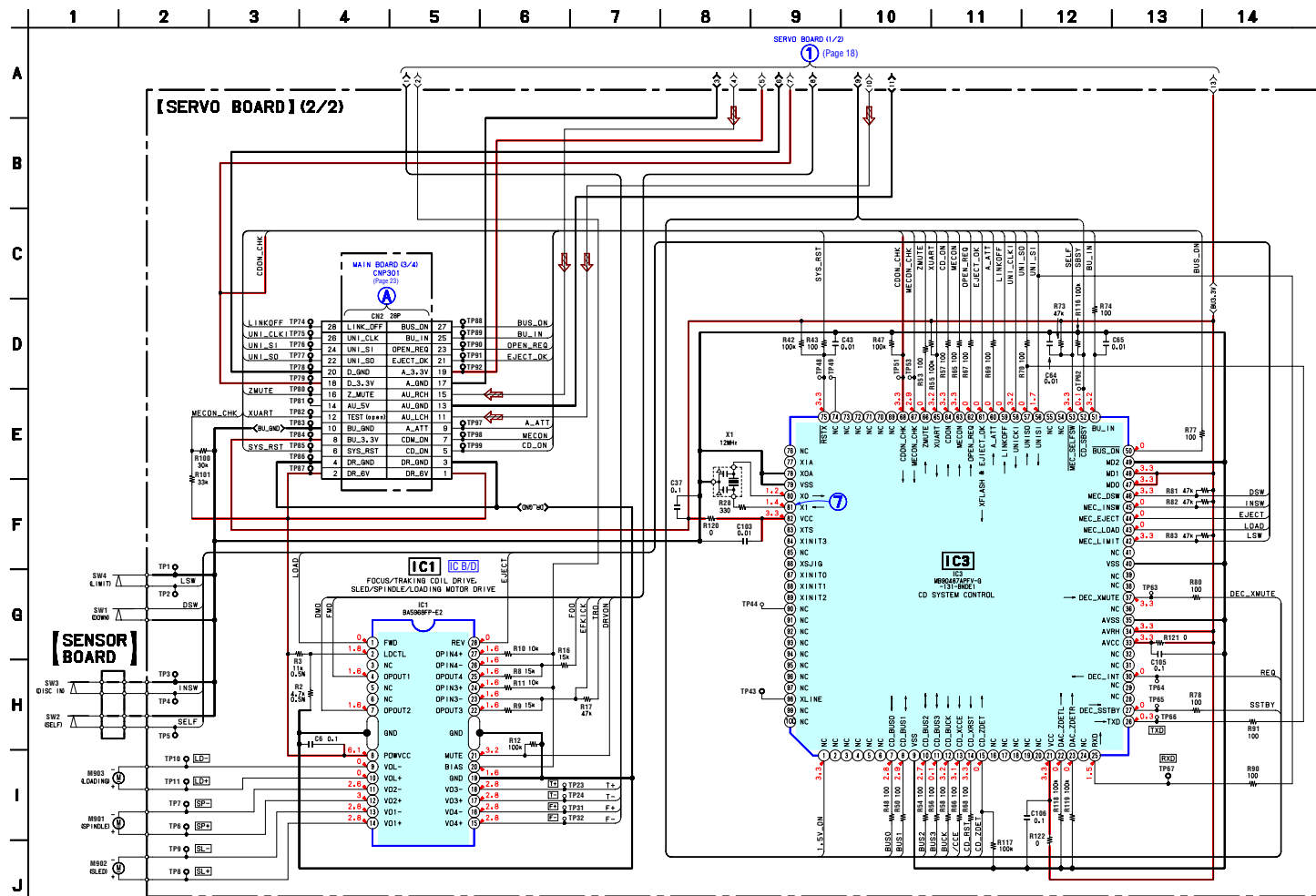
3-4. PRINTED WIRING BOARDS – SERVO BOARD – • See page 15 for Circuit Boards Location. : Uses unleaded solder.



3-5. SCHEMATIC DIAGRAM – SERVO BOARD (1/2) – • See page 28 for IC Block Diagram. • See page 16 for Waveforms.

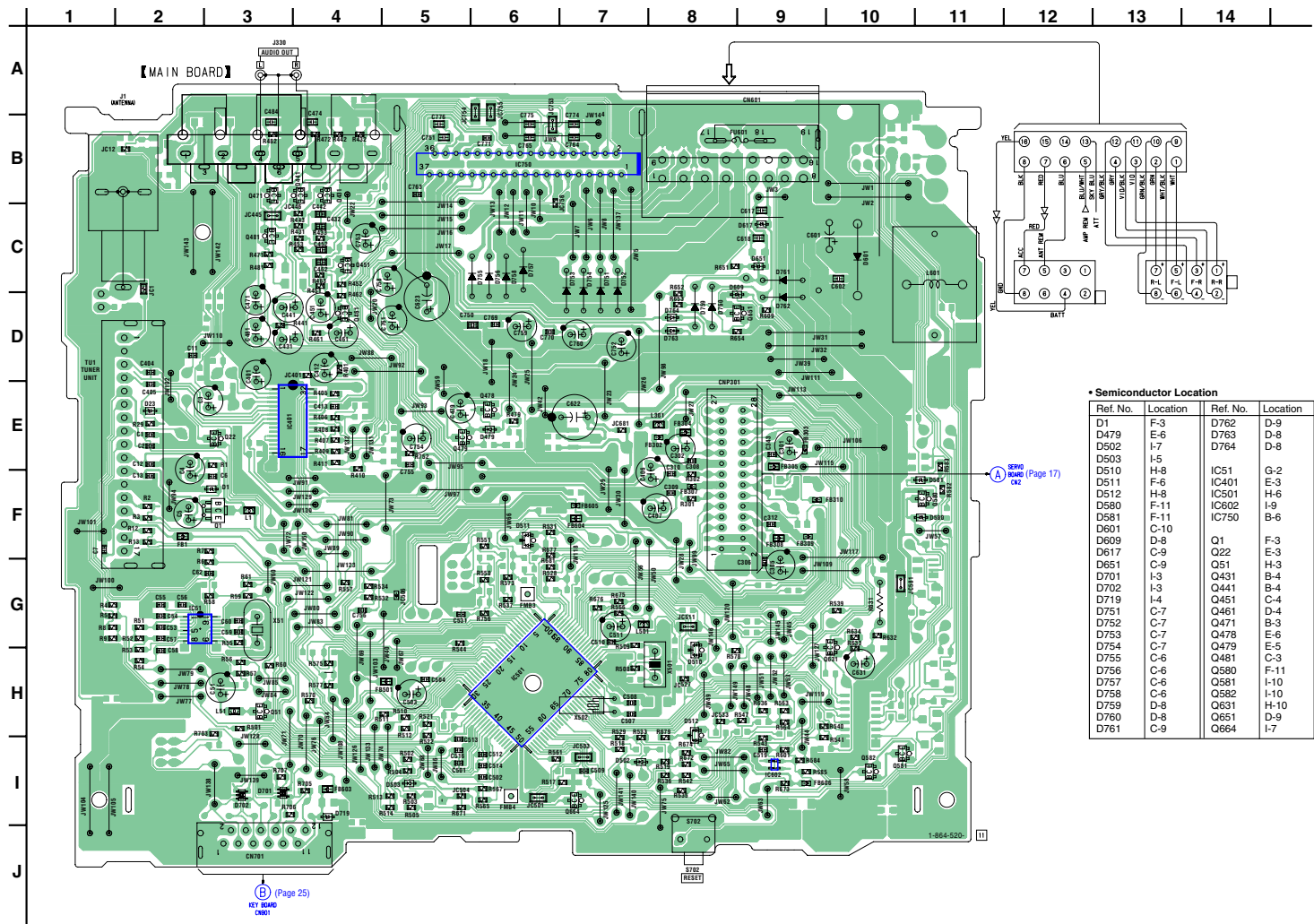


3-6. SCHEMATIC DIAGRAM – SERVO BOARD (2/2) – • See page 29 for IC Block Diagram. • See page 16 for Waveforms. • See page 30 for IC Pin Descriptions.



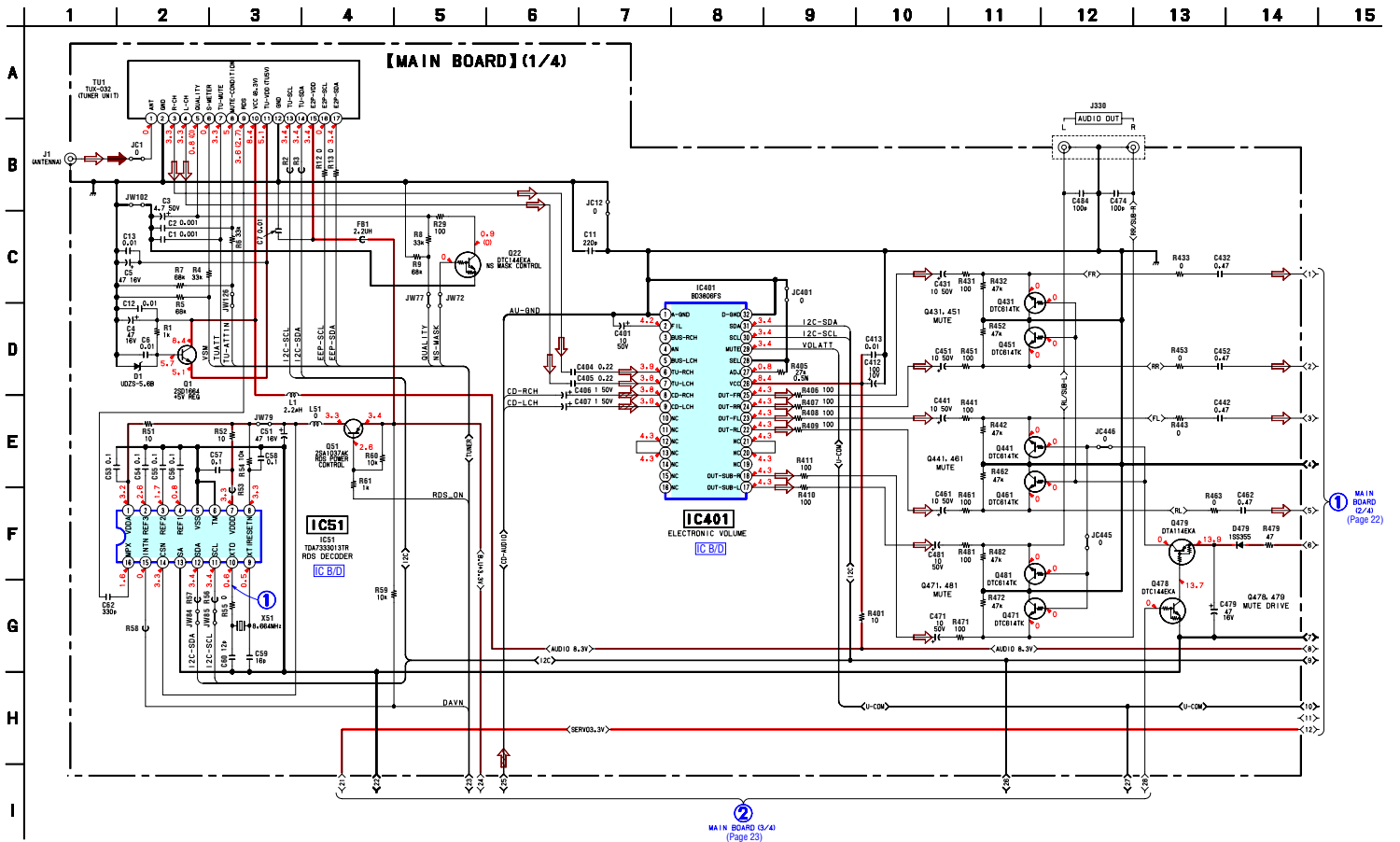
CDX-S2250/S2250S

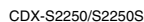
3-7. PRINTED WIRING BOARD – MAIN BOARD – • See page 15 for Circuit Boards Location. **LF** : Uses unleaded solder.



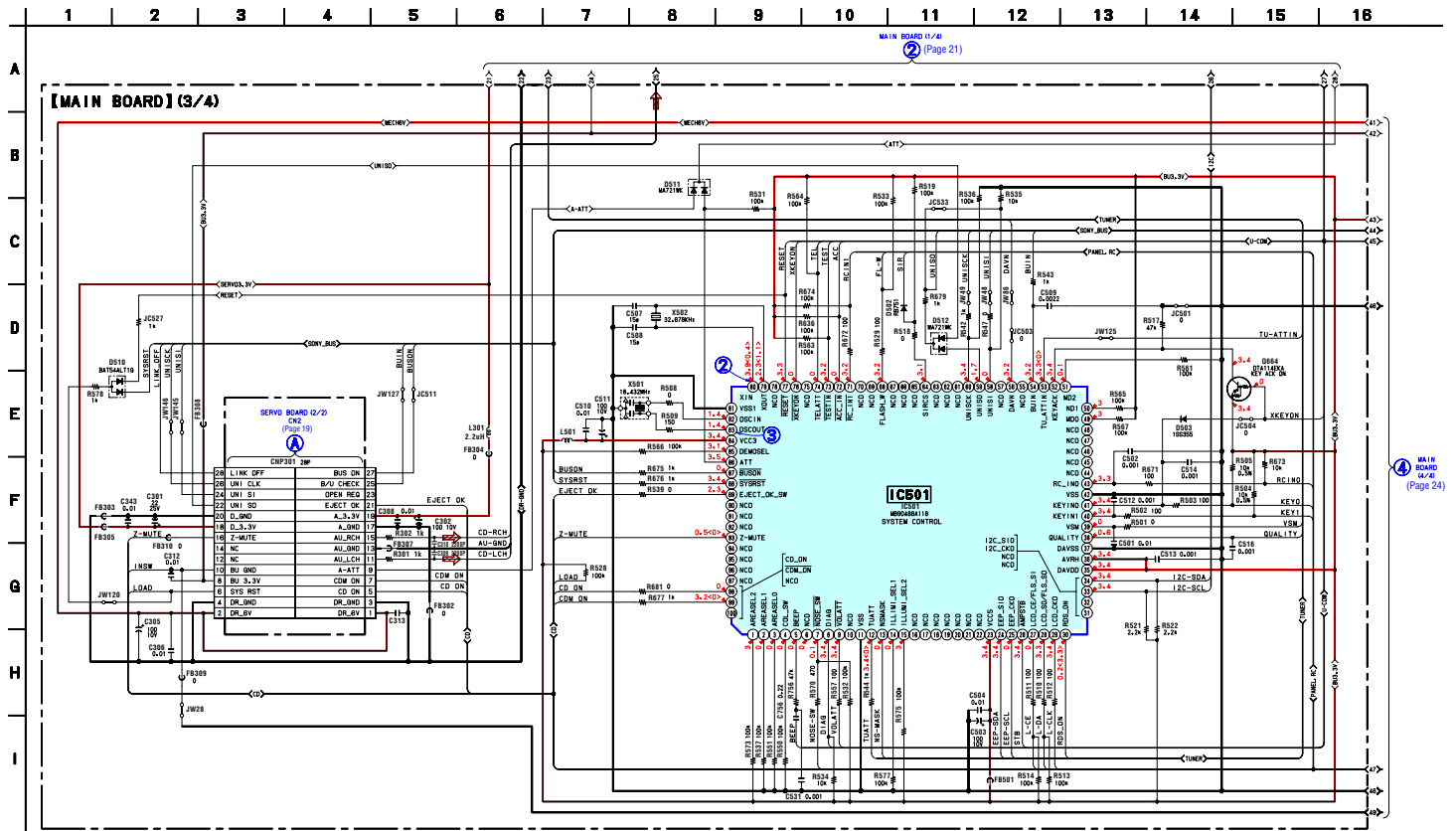
Semiconductor Location			
Ref. No.	Location	Ref. No.	Location
D1	F-3	D762	D-9
D479	E-6	D763	D-8
D502	I-7	D764	D-8
D503	I-5		
D510	H-8	IC51	G-2
D511	F-6	IC401	E-3
D512	H-8	IC501	H-6
D580	F-11	IC602	I-9
D581	F-11	IC750	B-6
D601	C-10		
D609	D-8	Q1	F-3
D617	D-8	Q22	E-3
D651	C-9	Q51	H-3
D701	I-3	Q431	B-4
D702	I-3	Q441	B-4
D719	I-4	Q451	C-4
D751	C-7	Q461	D-4
D752	C-7	Q471	B-3
D753	C-7	Q478	E-6
D754	C-7	Q479	E-5
D755	C-6	Q481	C-3
D756	C-6	Q580	F-11
D757	C-6	Q581	I-10
D758	C-6	Q582	I-10
D759	D-8	Q631	H-10
D760	D-8	Q651	D-9
D761	C-9	Q664	I-7

3-8. SCHEMATIC DIAGRAM – MAIN BOARD (1/4) – • See page 27 for IC Block Diagram. • See page 16 for Waveforms.

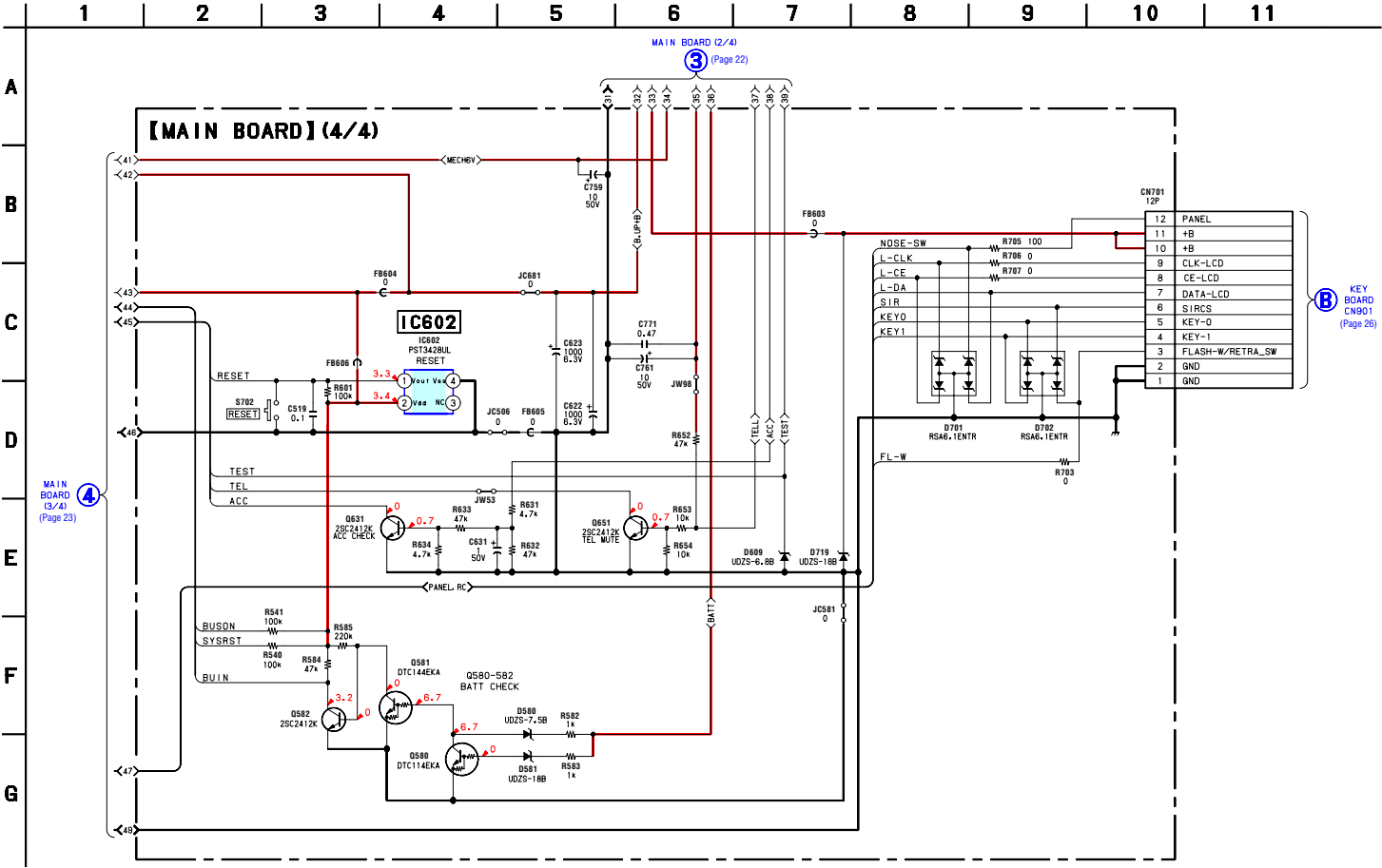




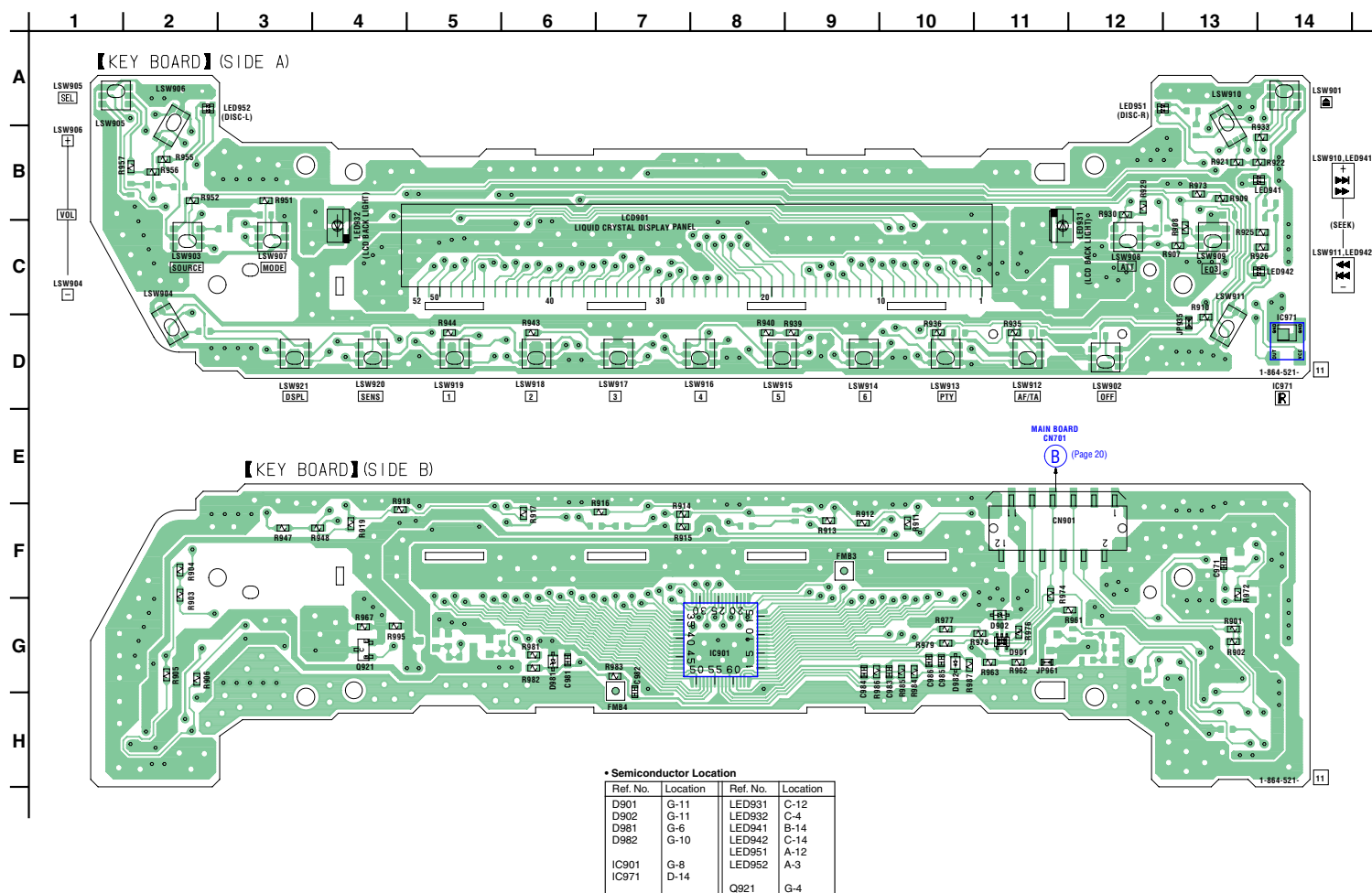
3-10. SCHEMATIC DIAGRAM – MAIN BOARD (3/4) – * See page 16 for Waveforms. * See page 32 for IC Pin Descriptions.

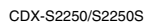


3-11. SCHEMATIC DIAGRAM – MAIN BOARD (4/4) –

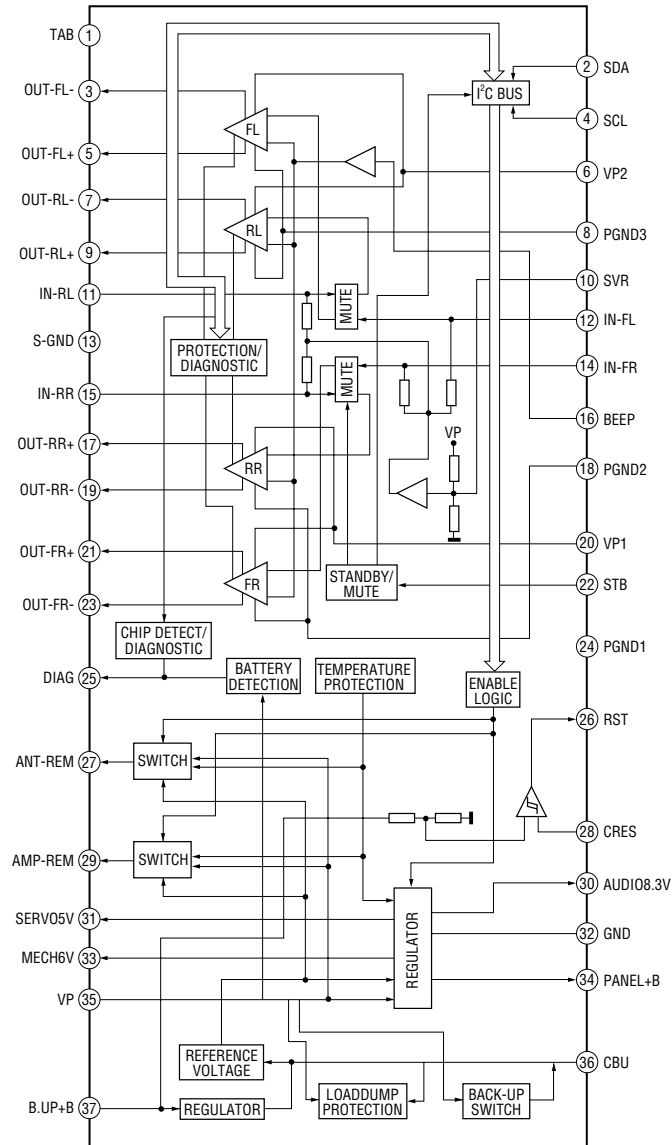


3-12. PRINTED WIRING BOARD – KEY BOARD – • See page 15 for Circuit Boards Location. : Uses unleaded solder.



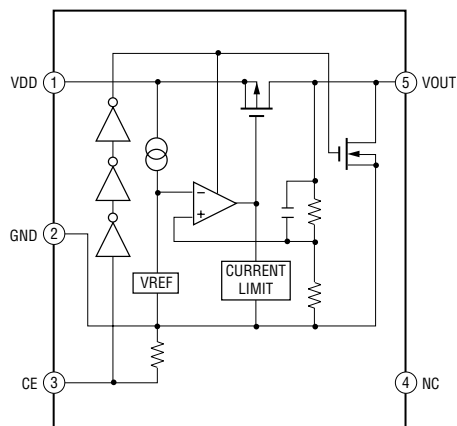


IC750 TDA8588BJ/N2/R1

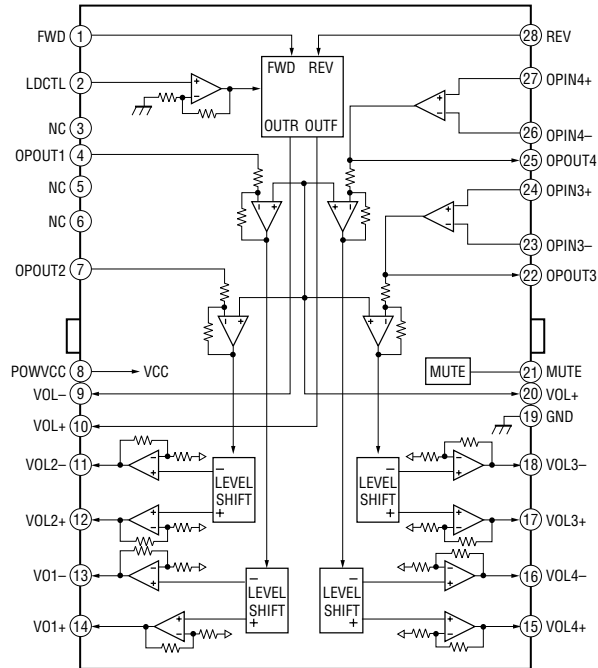


– SERVO Board –

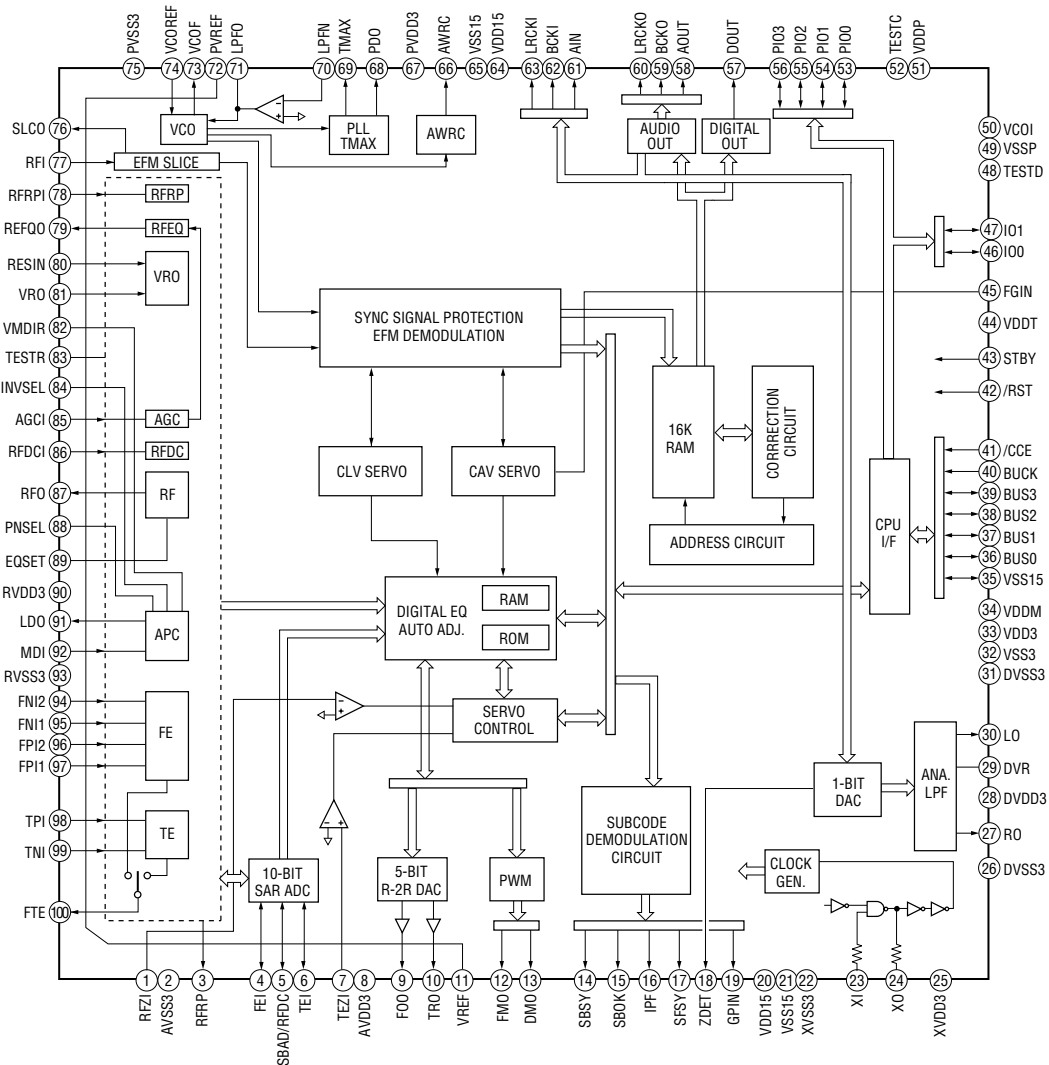
IC6 R1114N151D-TR-FA



IC1 BA5968FP-E2



IC2 TC5968FP-E2



• IC Pin Descriptions

IC3 MB90487APFV-G-131-BNDE1 (CD SYSTEM CONTROL) (SERVO BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	NC	O	Servo 1.5 V power supply control signal output
2 to 6	NC	—	Not used. (Open)
7	CD BUS0	I/O	Bus data signal input/output 0
8	CD BUS1	I/O	Bus data signal input/output 1
9	VSS	—	Ground pin
10	CD BUS2	I/O	Bus data signal input/output 2
11	CD BUS3	I/O	Bus data signal input/output 3
12	CD BUCK	O	Bus clock signal output
13	CD XCCE	O	Chip enable signal output
14	CD XRST	O	Reset signal output
15	CD ZDET	I	Zero detection signal input
16 to 20	NC	—	Not used. (Open)
21	VCC	—	Power supply pin (+3.3 V)
22	DAC ZDETL	I	Zero data detection signal input (L-ch)
23	DAC ZDETR	I	Zero data detection signal input (R-ch)
24	NC	—	Not used. (Open)
25	RXD	I	UART RXD data signal input (MCBUS/Flash data input)
26	TXD	O	UART TXD data signal output (MCBUS/Flash data output)
27	DEC SSTBY	O	SRAM STANDBY mode control signal output
28, 29	NC	—	Not used. (Open)
30	DEC INT	I	Request signal input
31, 32	NC	—	Not used. (Open)
33	AVCC	—	Power supply pin (+3.3 V) for A/D converter
34	AVRH	—	External reference voltage for A/D converter
35	AVSS	—	Ground pin
36	NC	—	Not used. (Open)
37	DEC XMUTE	O	Mute signal output L: mute
38, 39	NC	—	Not used. (Open)
40	VSS	—	Ground pin
41	NC	—	Not used. (Open)
42	MEC LIMIT	I	Sled limit in detection switch signal input
43	MEC LOAD	O	Loading motor signal output (Load direction)
44	MEC EJECT	O	Loading motor signal output (Eject direction)
45	MEC INSW	I	Pack-in detection signal input
46	MEC DSW	I	Chucking end detection switch signal input
47, 48	MD0, MD1	I	CPU operation mode designation signal input (Connect to Vcc.)
49	MD2	I	CPU operation mode designation signal input (Connect to Vss.)
50	BUS ON	I	Bus on signal input L: bus on
51	BU IN	I	Backup on/off signal input H: backup on, L: backup off
52	CD SBSY	I	SUBQ sync signal input L: interruption
53	MEC SELFSW	I	Disc insert detection switch signal input L: disc in interruption
54, 55	NC	—	Not used. (Open)
56	UNISI	I	Serial data signal input
57	UNISO	O	Serial data signal output
58	UNICKI	I	Serial clock signal input
59	LINEOFF	O	Line off signal output
60	A ATT	O	Audio attenuation signal output H: ATT on
61	EJECT OK	I	Front panel open signal input H: eject
62	OPEN REQ	O	Front panel open/close request signal output H: open request
63	MECON	O	Mechanism deck power supply control signal output
64	CDON	O	Servo power supply control signal output

Pin No.	Pin Name	I/O	Pin Description
65	XUART	I	Sony-Bus/MC-Bus change signal input H: Sony-Bus, L: MC-Bus
66	ZMUTE	O	Zero detection mute signal output
67	MECON CHK	I	MECON rising detection signal input
68	CDON CHK	I	CDON rising detection signal input
69 to 74	NC	—	Not used. (Open)
75	RSTX	I	System reset signal input
76	NC	—	Not used. (Open)
77	X1A	—	Sub-clock connect pin Not used in this set. (Open)
78	X0A	—	Sub-clock connect pin Not used in this set. (Connect to Vss.)
79	VSS	—	Ground pin
80	X0	I	Main-clock connect pin (12 MHz)
81	X1	O	Main-clock connect pin (12 MHz)
82	VCC	—	Power supply pin (+3.3 V)
83	XTS	I	Not used in this set. (Open)
84	XINIT3	I	Not used in this set. (Open)
85	NC	—	Not used. (Open)
86	XSJIG	I	Not used in this set. (Open)
87 to 89	XINIT0 to 2	I	Not used in this set. (Open)
90 to 97	NC	—	Not used. (Open)
98	XLINE	I	Not used in this set. (Open)
99, 100	NC	—	Not used. (Open)

IC501 MB90487A11 (SYSTEM CONTROL) (MAIN BOARD (3/4))

Pin No.	Pin Name	I/O	Pin Description
1	AREA SEL2	I	Destination setting pin
2	AREA SEL1	I	Destination setting pin
3	AREA SEL0	I	Destination setting pin
4	COL SW	I	Illumination color select signal input
5	BEEP	O	Beep signal output
6	NCO	O	Not used
7	NOSE SW	I	Front panel open/close detect signal input
8	DIAG	I	Power AMP status signal input
9	VOL ATT	O	Electronic volume attenuate control signal output
10	NCO	O	Not used
11	VSS	—	Ground
12	TU ATT	O	Tuner mute control signal output
13	NS MASK	O	Noise mask signal output
14	ILLUMI SEL1	I	Illumination voltage setting pin
15	ILLUMI SEL2	I	Illumination voltage setting pin
16	NCO	O	Not used
17	NCO	O	Not used
18	NCO	O	Not used
19	NCO	O	Not used
20	NCO	O	Not used
21	NCO	O	Not used
22	NCO	O	Not used
23	VCC5	—	Power supply pin (+3.3V)
24	EEP SIO	I/O	EEPROM bus serial data input/output
25	EEP CKO	O	EEPROM bus serial clock output
26	AMP STB	O	Power AMP satandby signal output
27	LCD CE	O	LCD driver chip enable output
28	LCD SO	O	LCD driver serial data output
29	LCD SCK	O	LCD driver serial clock output
30	RDS ON	O	RDS ON signal output
31	NCO	O	Not used
32	NCO	O	Not used
33	I2C SCK	O	I2C bus serial clock output
34	I2C SIO	I/O	I2C bus serial data input/output
35	DAVDD	—	A/D converter power supply pin (+3.3V)
36	AVRH	—	A/D converter reference power supply pin (+3.3V)
37	DAVSS	—	Ground
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEY IN1	I	Key signal input
41	KEY IN0	I	Key signal input
42	VSS	—	Ground
43	RC IN0	I	Rotary commander key signal input
44	NCO	O	Not used
45	NCO	O	Not used
46	NCO	O	Not used
47	NCO	O	Not used
48	NCO	O	Not used
49	MD0	I	Operation mode setting pin
50	MD1	I	Operation mode setting pin
51	MD2	I	Operation mode setting pin

Pin No.	Pin Name	I/O	Pin Description
52	KEY ACK	I	Key acknowledgment detect signal input
53	TU ATT IN	I	Tuner mute zero cross detect signal input
54	BU IN	I	Back-up power supply detect signal input
55	NCO	O	Not used
56	DAVN	I	RDS data block synchronized detect signal input
57	NCO	O	Not used
58	UNI SI	I	SONY bus data input
59	UNI SO	O	SONY bus data output
60	UNI SCK	O	SONY bus clock output
61	NCO	O	Not used
62	NCO	O	Not used
63	NCO	O	Not used
64	SIRCS	I	Remote control signal input
65	NCO	O	Not used
66	NCO	O	Not used
67	NCO	O	Not used
68	FLASH W	I	Memory mode select signal input
69	NCO	O	Not used
70	NCO	O	Not used
71	RC IN1	I	Rotary commander shift key signal input
72	ACC IN	I	Accessory power supply detect signal input
73	TEST IN	I	Test mode detect signal input
74	TEL ATT	I	Telephone attenuate detect signal input
75	NCO	O	Not used
76	XKEY ON	O	A/D converter power supply control signal output
77	RESET	I	CPU reset input
78	NCO	O	Not used
79	XOUT	—	Sub-clock output (32.768kHz)
80	XIN	—	Sub-clock input (32.768kHz)
81	VSS1	—	Ground
82	OSC IN	—	Main-clock input (3.68MHz)
83	OSC OUT	—	Main-clock output (3.68MHz)
84	VCC3	—	Power supply pin (+3.3V)
85	DEMO SEL	I	Demo select signal input
86	ATT	O	Audio mute control signal output
87	BUS ON	O	Bus ON signal output
88	SYS RST	O	System reset output
89	EJECT OK SW	O	Eject OK signal output signal
90	NCO	O	Not used
91	NCO	O	Not used
92	NCO	O	Not used
93	Z-MUTE	I	CD zero cross mute detect signal input
94	NCO	O	Not used
95	NCO	O	Not used
96	NCO	O	Not used
97	NCO	O	Not used
98	CD ON	I	CD servo power control request signal input
99	CDM ON	I	CD deck power control request signal input
100	NCO	O	Not used

SECTION 4

EXPLODED VIEWS

NOTE:

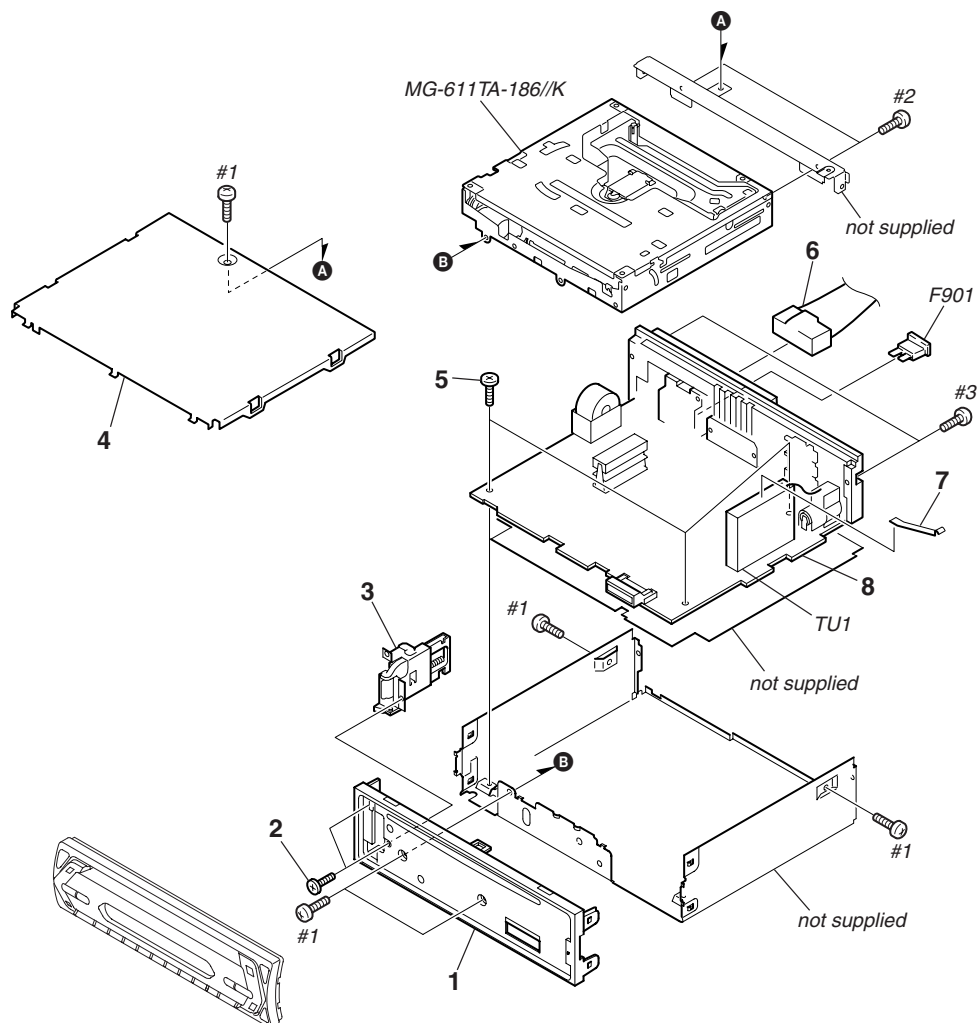
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference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

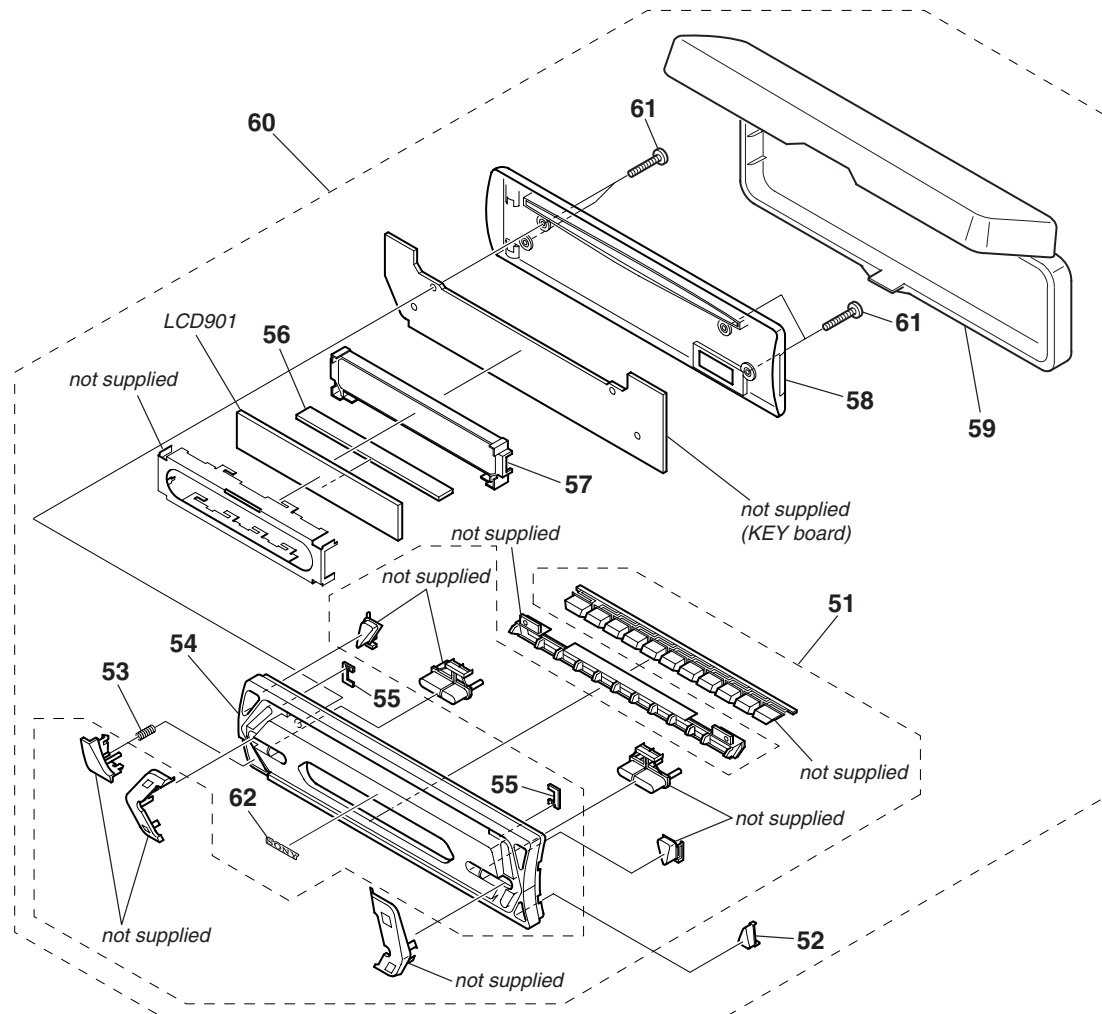
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

4-1. MAIN SECTION



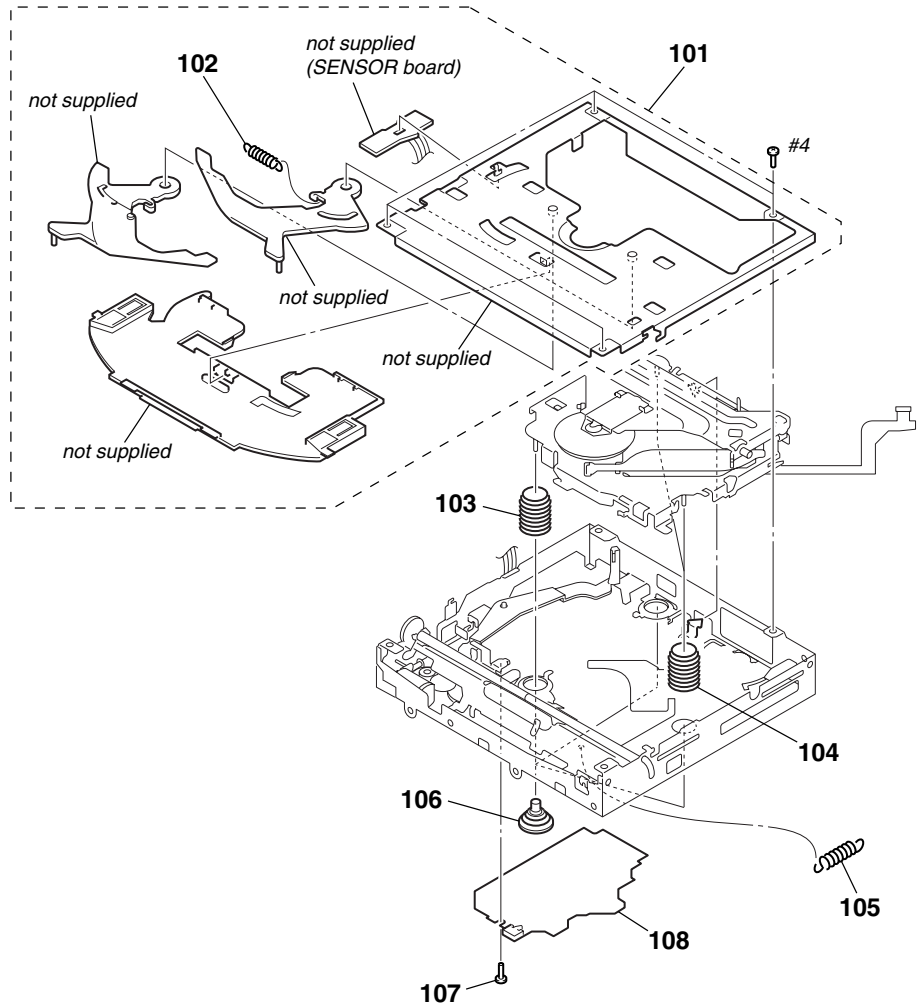
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2023-967-1	PANEL (LCD) ASSY, SUB		8	A-1082-796-A	MAIN BOARD, COMPLETE	
2	2-583-939-01	SCREW (+B 2X4)		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
3	X-2024-365-1	LOCK ASSY (S)		TU1	A-3220-961-A	TUNER UNIT (TUX-032)	
4	3-246-006-31	COVER		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	2-583-940-01	SCREW (+BTT)		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
6	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
7	2-345-298-01	PLATE (TU), GROUND					

4-2. FRONT PANEL SECTION



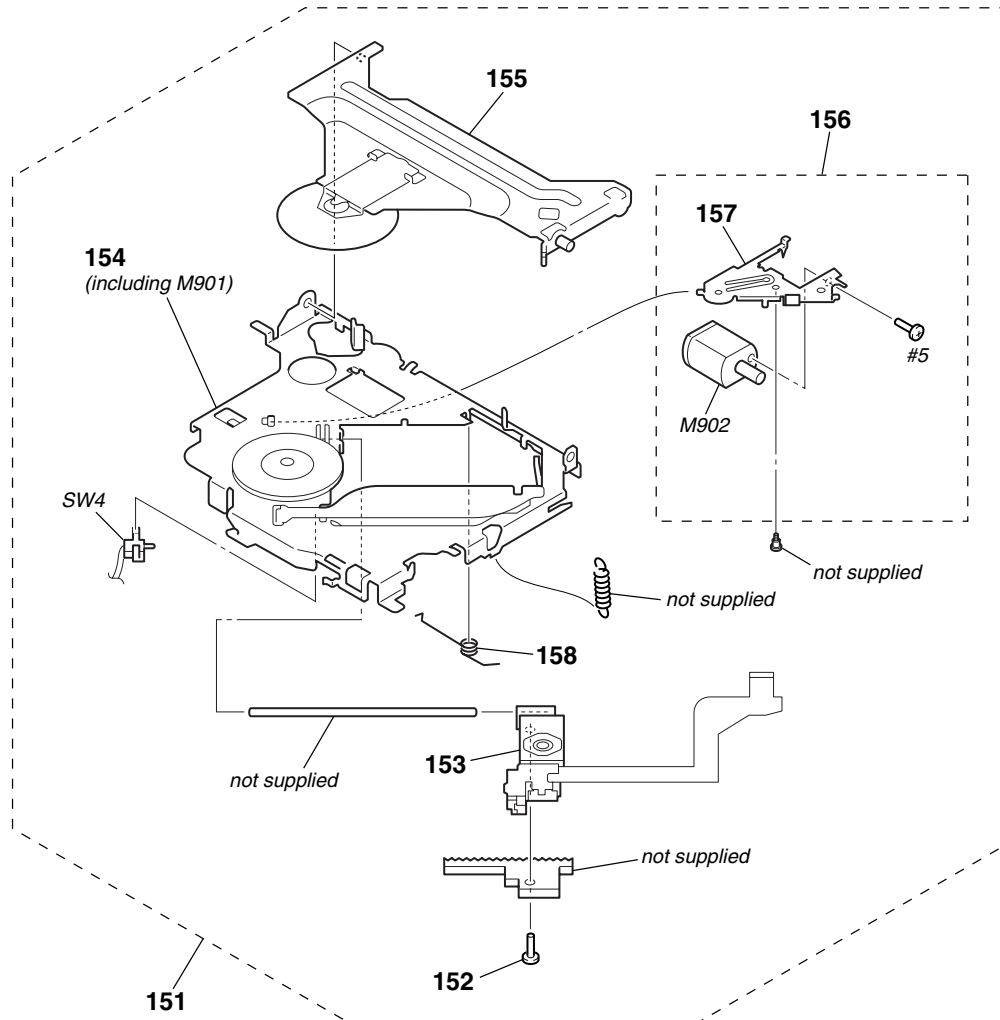
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2024-429-1	BUTTON ASSY (S) (S2250S)		58	2-187-728-01	PANEL, FRONT BACK	
51	X-2024-512-1	BUTTON ASSY (S) (S2250)		59	X-2024-133-1	CASE ASSY (for FRONT PANEL)	
52	2-187-736-01	FILTER (IR) (S2250)		60	A-1082-798-A	PANEL COMPLETE ASSY, FRONT (S2250S)	
52	2-187-736-11	FILTER (IR) (S2250S)		60	A-1083-299-A	PANEL COMPLETE ASSY, FRONT (S2250)	
53	2-187-738-01	SPRING (RELEASE)		61	3-250-543-31	SCREW (+B P-TITE M2)	
54	X-2048-524-1	PANEL SUB ASSY, FRONT (S2250S)		62	3-251-320-01	EMBLEM (NO. 2.5), SONY (S2250)	
54	X-2048-525-1	PANEL SUB ASSY, FRONT (S2250)		62	3-251-320-11	EMBLEM (NO. 2.5), SONY (S2250S)	
55	2-187-737-01	PLATE (CD), LIGHT GUIDE		LCD901	1-805-728-11	DISPLAY PANEL, LIQUID CRYSTAL (S2250)	
56	1-780-199-11	CONDUCTIVE BOARD, CONNECTION		LCD901	1-805-765-11	DISPLAY PANEL, LIQUID CRYSTAL (S2250S)	
57	X-2023-711-1	HOLDER (LCD) ASSY					

4-3. CD MECHANISM SECTION (1)
(MG-611TA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-3372-455-A	CHASSIS (T) SUB ASSY		106	3-253-748-01	DAMPER (S)	
102	3-253-729-01	SPRING (LTR), TENSION COIL		107	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
103	3-253-746-14	SPRING (DAMPER), COMPRESSION		108	A-1075-784-A	SERVO BOARD, COMPLETE	
104	3-253-746-03	SPRING (DAMPER), COMPRESSION		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
105	2-345-767-01	SPRING (KF60), TENSION					

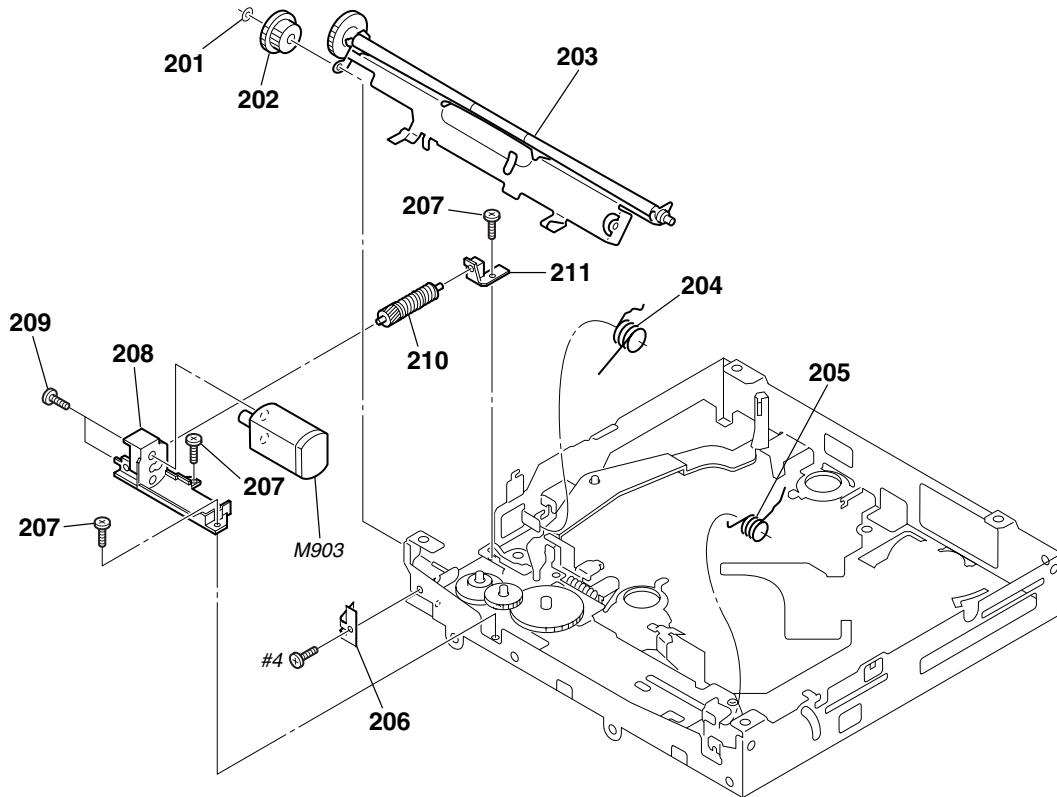
4-4. CD MECHANISM SECTION (2) (MG-611TA-186//K)



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

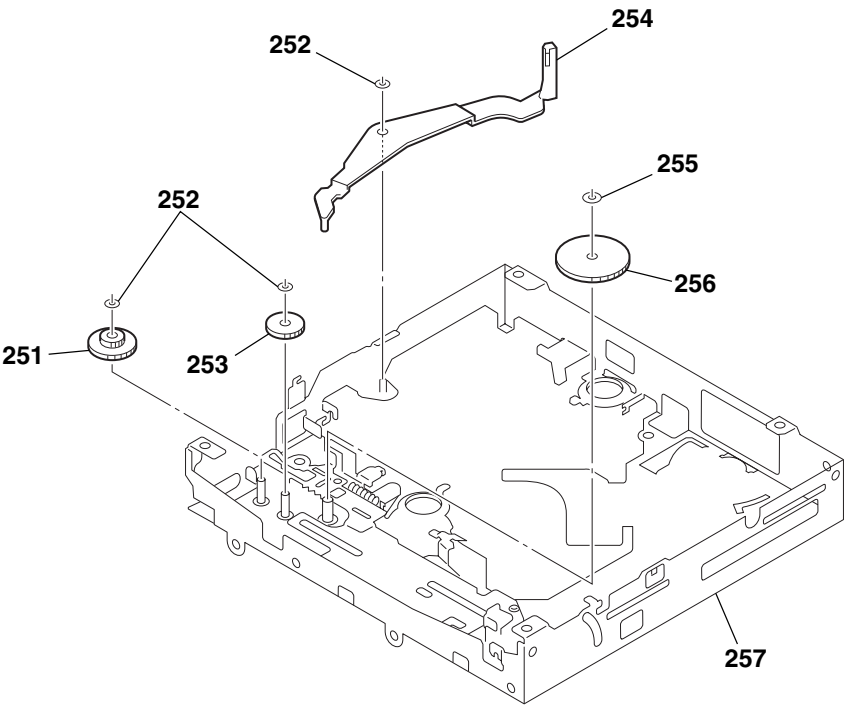
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-1075-786-A	CHASSIS (OP) COMPLETE ASSY		157	X-3383-454-3	LEVER (SL) ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING		158	3-261-959-02	SPRING (SL), TORSION	
$\triangle$ 153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)		M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)		SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
155	A-3337-641-A	ARM SUB ASSY, CHUCKING		#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	
156	A-3337-639-A	LEVER (SL) SUB ASSY					

4-5. CD MECHANISM SECTION (3)
(MG-611TA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-262-755-01	WASHER (1.1-2.5)		208	2-186-696-11	BRACKET (LEM-N)	
202	2-186-699-11	GEAR (RA1)		209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
203	A-1075-789-A	ARM ASSY, ROLLER		210	A-1083-637-A	GEAR (LE) ASSY	
204	3-259-455-02	SPRING (RAL)		211	2-186-697-11	BEARING (LEB-N)	
205	3-253-713-01	SPRING (RAR)		M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)	
206	3-259-469-01	SPRING (LE), LEAF		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
207	2-134-636-31	SCREW (M1.7X2.5)					

4-6. CD MECHANISM SECTION (4)
(MG-611TA-186//K)



Ref. No.	Part No.	Description
251	2-186-700-11	GEAR (CHK1)
252	3-344-223-01	WASHER
253	3-259-470-01	GEAR (LE1)
254	3-253-755-02	LEVER (D)

Ref. No.	Part No.	Description
255	3-899-829-01	WASHER (SLIT)
256	3-259-032-01	GEAR (LE2)
257	A-1075-791-A	CHASSIS (M) BLOCK ASSY

Remark

SECTION 5

ELECTRICAL PARTS LIST

KEY**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- 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.

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
		KEY BOARD							< SWITCH >				

	1-780-199-11	CONDUCTIVE BOARD, CONNECTION					LSW901	1-786-805-11	SWITCH, TACTILE (WITH LED) (▲)				
		< CAPACITOR >					LSW902	1-786-805-11	SWITCH, TACTILE (WITH LED) (OFF)				
C971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		LSW903	1-786-805-11	SWITCH, TACTILE (WITH LED) (SOURCE)				
C981	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		LSW904	1-786-800-11	SWITCH, TACTILE (WITH LED) (VOL -)				
C982	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V		LSW905	1-786-805-11	SWITCH, TACTILE (WITH LED) (SEL)				
C983	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		LSW906	1-786-800-11	SWITCH, TACTILE (WITH LED) (VOL +)				
C984	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		LSW907	1-786-805-11	SWITCH, TACTILE (WITH LED) (MODE)				
		< CONNECTOR >					LSW908	1-786-805-11	SWITCH, TACTILE (WITH LED) (ATT)				
CN901	1-794-312-11	PIN, CONNECTOR 12P					LSW909	1-786-805-11	SWITCH, TACTILE (WITH LED) (EQ3)				
		< DIODE >					LSW910	1-786-800-11	SWITCH, TACTILE (WITH LED) (SEEK +/-▶▶▶▶▶▶▶▶▶▶)				
D901	6-500-886-01	DIODE RSA6.1ENTR					LSW911	1-786-800-11	SWITCH, TACTILE (WITH LED) (SEEK -/◀◀◀◀◀◀◀◀◀◀)				
D902	8-719-083-66	DIODE UDZSTE-1718B					LSW912	1-786-805-11	SWITCH, TACTILE (WITH LED) (AF/TA)				
D981	8-719-069-54	DIODE UDZSTE-175.1B					LSW913	1-786-805-11	SWITCH, TACTILE (WITH LED) (PTY)				
D982	8-719-988-61	DIODE 1SS355TE-17					LSW914	1-786-805-11	SWITCH, TACTILE (WITH LED) (6)				
		< IC >					LSW915	1-786-805-11	SWITCH, TACTILE (WITH LED) (5)				
IC901	6-707-063-01	IC LC75826WH-US-E					LSW916	1-786-805-11	SWITCH, TACTILE (WITH LED) (4)				
IC971	6-600-163-01	IC RS-770 (IR)					LSW917	1-786-805-11	SWITCH, TACTILE (WITH LED) (3)				
		< JUMPER RESISTOR >					LSW918	1-786-805-11	SWITCH, TACTILE (WITH LED) (2)				
JP935	1-216-864-11	SHORT CHIP	0				LSW919	1-786-805-11	SWITCH, TACTILE (WITH LED) (1)				
JP961	1-216-864-11	SHORT CHIP	0				LSW920	1-786-805-11	SWITCH, TACTILE (WITH LED) (SENS)				
		< LIQUID CRYSTAL DISPLAY >					LSW921	1-786-805-11	SWITCH, TACTILE (WITH LED) (DSPL)				
LCD901	1-805-728-11	DISPLAY PANEL, LIQUID CRYSTAL (S2250)							< TRANSISTOR >				
LCD901	1-805-765-11	DISPLAY PANEL, LIQUID CRYSTAL (S2250S)					Q921	8-729-027-58	TRANSISTOR DTC143ZKA-T146				
		< DIODE >							< RESISTOR >				
LED931	6-501-062-01	LED NSCW505CT-AST (LCD BACK LIGHT)					R901	1-216-819-11	METAL CHIP	680	5%	1/10W	
LED932	6-501-062-01	LED NSCW505CT-AST (LCD BACK LIGHT)					R902	1-216-819-11	METAL CHIP	680	5%	1/10W	
LED941	6-500-450-01	LED CL-195SR-CD-T (▶▶▶▶▶▶▶▶▶▶)					R903	1-216-819-11	METAL CHIP	680	5%	1/10W	
LED942	6-500-450-01	LED CL-195SR-CD-T (◀◀◀◀◀◀◀◀◀◀)					R904	1-216-821-11	METAL CHIP	1K	5%	1/10W	
LED951	6-500-450-01	LED CL-195SR-CD-T (DISC-R)					R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
LED952	6-500-450-01	LED CL-195SR-CD-T (DISC-L)					R906	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
							R907	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R908	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R909	1-216-819-11	METAL CHIP	680	5%	1/10W	
							R910	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R911	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
							R912	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
							R913	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R914	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
							R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R916	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	C4	1-126-947-11	ELECT	47uF	20%	35V
R917	1-216-833-11	METAL CHIP	10K	5%	1/10W	C5	1-126-947-11	ELECT	47uF	20%	35V
R918	1-216-835-11	METAL CHIP	15K	5%	1/10W						
R919	1-216-837-11	METAL CHIP	22K	5%	1/10W	C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R921	1-216-813-11	METAL CHIP	220	5%	1/10W	C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C11	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
R922	1-216-811-11	METAL CHIP	150	5%	1/10W	C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R925	1-216-809-11	METAL CHIP	100	5%	1/10W	C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R926	1-216-807-11	METAL CHIP	68	5%	1/10W						
R929	1-216-809-11	METAL CHIP	100	5%	1/10W	C51	1-126-947-11	ELECT	47uF	20%	35V
R930	1-216-807-11	METAL CHIP	68	5%	1/10W	C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R933	1-216-811-11	METAL CHIP	150	5%	1/10W	C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R935	1-216-809-11	METAL CHIP	100	5%	1/10W	C56	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R936	1-216-807-11	METAL CHIP	68	5%	1/10W						
R939	1-216-809-11	METAL CHIP	100	5%	1/10W	C57	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R940	1-216-807-11	METAL CHIP	68	5%	1/10W	C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C59	1-164-237-11	CERAMIC CHIP	16PF	5%	50V
R943	1-216-809-11	METAL CHIP	100	5%	1/10W	C60	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
R944	1-216-807-11	METAL CHIP	68	5%	1/10W	C62	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
R947	1-216-809-11	METAL CHIP	100	5%	1/10W						
R948	1-216-807-11	METAL CHIP	68	5%	1/10W	C301	1-128-551-11	ELECT	22uF	20%	63V
R951	1-216-809-11	METAL CHIP	100	5%	1/10W	C302	1-104-665-11	ELECT	100uF	20%	25V
						C305	1-104-665-11	ELECT	100uF	20%	25V
R952	1-216-807-11	METAL CHIP	68	5%	1/10W	C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R955	1-216-813-11	METAL CHIP	220	5%	1/10W	C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R956	1-216-811-11	METAL CHIP	150	5%	1/10W						
R957	1-216-811-11	METAL CHIP	150	5%	1/10W	C309	1-162-966-11	CERAMIC CHIP	0.0022uH	10%	50V
R961	1-216-805-11	METAL CHIP	47	5%	1/10W (S2250S)	C310	1-162-966-11	CERAMIC CHIP	0.0022uH	10%	50V
						C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R961	1-216-807-11	METAL CHIP	68	5%	1/10W (S2250)	C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C401	1-126-964-11	ELECT	10uF	20%	50V
R962	1-216-805-11	METAL CHIP	47	5%	1/10W	C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
R963	1-216-803-11	METAL CHIP	33	5%	1/10W	C405	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
R967	1-216-815-11	METAL CHIP	330	5%	1/10W	C406	1-126-960-11	ELECT	1uF	20%	50V
R972	1-216-809-11	METAL CHIP	100	5%	1/10W	C407	1-126-960-11	ELECT	1uF	20%	50V
						C412	1-104-665-11	ELECT	100uF	20%	25V
R973	1-216-864-11	SHORT CHIP	0								
R974	1-216-864-11	SHORT CHIP	0			C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R976	1-216-864-11	SHORT CHIP	0			C431	1-126-964-11	ELECT	10uF	20%	50V
R977	1-216-809-11	METAL CHIP	100	5%	1/10W	C432	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
R978	1-216-809-11	METAL CHIP	100	5%	1/10W	C441	1-126-964-11	ELECT	10uF	20%	50V
						C442	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
R979	1-216-809-11	METAL CHIP	100	5%	1/10W						
R981	1-216-811-11	METAL CHIP	150	5%	1/10W	C451	1-126-964-11	ELECT	10uF	20%	50V
R982	1-216-811-11	METAL CHIP	150	5%	1/10W	C452	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
R983	1-216-864-11	SHORT CHIP	0			C461	1-126-964-11	ELECT	10uF	20%	50V
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W	C462	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
						C471	1-126-964-11	ELECT	10uF	20%	50V
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W	C474	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W	C479	1-126-947-11	ELECT	47uF	20%	35V
R995	1-216-864-11	SHORT CHIP	0			C481	1-126-964-11	ELECT	10uF	20%	50V
*****						C484	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
A-1082-796-A MAIN BOARD, COMPLETE						C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

7-621-284-40 SCREW +P 2.6X10						C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
7-685-134-19 SCREW +P 2.6X8 TYPE2 NON-SLIT						C503	1-104-665-11	ELECT	100uF	20%	25V
7-685-793-09 SCREW +PTT 2.6X8 (S)						C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
7-685-795-09 SCREW +PTT 2.6X12 (S)						C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
< CAPACITOR >						C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C1	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C509	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C2	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-126-963-11	ELECT	4.7uF	20%	50V	C511	1-104-665-11	ELECT	100uF	20%	25V
						C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C514	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D755	6-500-522-01	DIODE 10EDB40-TA1B2	
C516	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D756	6-500-522-01	DIODE 10EDB40-TA1B2	
C519	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	D757	6-500-522-01	DIODE 10EDB40-TA1B2	
C531	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D758	6-500-522-01	DIODE 10EDB40-TA1B2	
C601	1-131-868-81	ELECT	3300uF 20% 16V	D759	6-500-522-01	DIODE 10EDB40-TA1B2	
C602	1-165-319-11	CERAMIC CHIP	0.1uF 50V	D760	6-500-522-01	DIODE 10EDB40-TA1B2	
C617	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D761	6-500-522-01	DIODE 10EDB40-TA1B2	
C618	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V	D762	6-500-522-01	DIODE 10EDB40-TA1B2	
C622	1-126-916-11	ELECT	1000uF 20% 6.3V	D763	8-719-988-61	DIODE 1SS355TE-17	
C623	1-126-916-11	ELECT	1000uF 20% 6.3V	D764	8-719-988-61	DIODE 1SS355TE-17	
C631	1-126-960-11	ELECT	1uF 20% 50V	< FERRITE BEAD >			
C750	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	FB1	1-469-844-11	INDUCTOR 2.2uH	
C751	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	FB302	1-216-864-11	SHORT CHIP 0	
C752	1-126-947-11	ELECT	47uF 20% 35V	FB303	1-469-876-11	INDUCTOR, FERRITE BEAD	
C753	1-128-551-11	ELECT	22uF 20% 63V	FB304	1-216-295-11	SHORT CHIP 0	
C754	1-126-961-11	ELECT	2.2uF 20% 50V	FB305	1-500-245-11	INDUCTOR, FERRITE BEAD	
C755	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	FB307	1-469-876-11	INDUCTOR, FERRITE BEAD	
C756	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	FB308	1-500-245-11	INDUCTOR, FERRITE BEAD	
C758	1-126-964-11	ELECT	10uF 20% 50V	FB309	1-216-864-11	SHORT CHIP 0	
C759	1-126-964-11	ELECT	10uF 20% 50V	FB310	1-216-864-11	SHORT CHIP 0	
C760	1-104-665-11	ELECT	100uF 20% 25V	FB501	1-500-245-11	INDUCTOR, FERRITE BEAD	
C761	1-126-964-11	ELECT	10uF 20% 50V	FB603	1-216-295-11	SHORT CHIP 0	
C763	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	FB604	1-216-295-11	SHORT CHIP 0	
C764	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	FB605	1-216-864-11	SHORT CHIP 0	
C765	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	FB606	1-414-595-11	INDUCTOR, FERRITE BEAD	
C769	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	< IC >			
C770	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	IC51	6-803-747-01	IC TDA7333013TR	
C771	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	IC401	6-705-372-01	IC BD3808FS-FE2	
C774	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	IC501	6-804-912-01	IC MB90487A118	
C775	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	IC602	8-759-659-13	IC PST3428UL	
C776	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	IC750	6-705-360-02	IC TDA8588BJ/N2/R1	
< CONNECTOR >				< JACK >			
CN601	1-774-701-21	PIN, CONNECTOR 16P		J1	1-815-185-13	JACK (ANTENNA)	
CN701	1-794-311-21	PLUG, CONNECTOR 12P		J330	1-774-698-11	JACK, PIN 2P (AUDIO OUT)	
CNP301	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P		< JUMPER RESISTOR >			
< DIODE >				JC1	1-216-864-11	SHORT CHIP 0	
D1	8-719-069-55	DIODE UDZSTE-175.6B		JC12	1-216-864-11	SHORT CHIP 0	
D479	8-719-988-61	DIODE 1SS355TE-17		JC401	1-216-864-11	SHORT CHIP 0	
D502	8-719-060-48	DIODE RB751V-40TE-17		JC445	1-216-296-11	SHORT CHIP 0	
D503	8-719-988-61	DIODE 1SS355TE-17		JC446	1-216-864-11	SHORT CHIP 0	
D510	6-501-013-01	DIODE BAT54ALT1G		JC501	1-216-296-11	SHORT CHIP 0	
D511	8-719-040-04	DIODE MA721WK-(TX)		JC503	1-216-296-11	SHORT CHIP 0	
D512	8-719-040-04	DIODE MA721WK-(TX)		JC504	1-216-864-11	SHORT CHIP 0	
D580	8-719-056-84	DIODE UDZ-TE-17-7.5B		JC506	1-216-864-11	SHORT CHIP 0	
D581	8-719-083-66	DIODE UDZSTE-1718B		JC511	1-216-296-11	SHORT CHIP 0	
D601	8-719-049-38	DIODE 1N5404TU		JC527	1-216-821-11	METAL CHIP 1K 5% 1/10W	
D609	8-719-978-33	DIODE DTZ-TT11-6.8B		JC533	1-216-864-11	SHORT CHIP 0	
D617	8-719-083-66	DIODE UDZSTE-1718B		JC581	1-216-296-11	SHORT CHIP 0	
D651	8-719-083-66	DIODE UDZSTE-1718B		JC681	1-216-864-11	SHORT CHIP 0	
D701	6-500-886-01	DIODE RSA6.1ENTR		JC753	1-216-296-11	SHORT CHIP 0	
D702	6-500-886-01	DIODE RSA6.1ENTR		JC754	1-216-296-11	SHORT CHIP 0	
D719	8-719-083-66	DIODE UDZSTE-1718B		JC755	1-216-296-11	SHORT CHIP 0	
D751	6-500-522-01	DIODE 10EDB40-TA1B2		JC756	1-216-864-11	SHORT CHIP 0	
D752	6-500-522-01	DIODE 10EDB40-TA1B2					
D753	6-500-522-01	DIODE 10EDB40-TA1B2					
D754	6-500-522-01	DIODE 10EDB40-TA1B2					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< COIL >							
L1	1-469-844-11	INDUCTOR 2.2uH		R409	1-216-809-11	METAL CHIP 100 5%	1/10W
L51	1-216-295-11	SHORT CHIP 0		R410	1-216-809-11	METAL CHIP 100 5%	1/10W
L301	1-469-844-11	INDUCTOR 2.2uH		R411	1-216-809-11	METAL CHIP 100 5%	1/10W
L501	1-500-245-11	INDUCTOR, FERRITE BEAD		R431	1-216-809-11	METAL CHIP 100 5%	1/10W
L601	1-456-617-11	COIL, CHOKE		R432	1-216-841-11	METAL CHIP 47K 5%	1/10W
< TRANSISTOR >							
Q1	8-729-106-68	TRANSISTOR 2SD1615A-GP		R433	1-216-864-11	SHORT CHIP 0	
Q22	1-801-806-11	TRANSISTOR DTC144EKA		R441	1-216-809-11	METAL CHIP 100 5%	1/10W
Q51	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R442	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q431	6-550-752-01	TRANSISTOR DTC614TKT146		R443	1-216-864-11	SHORT CHIP 0	
Q441	6-550-752-01	TRANSISTOR DTC614TKT146		R451	1-216-809-11	METAL CHIP 100 5%	1/10W
Q451	6-550-752-01	TRANSISTOR DTC614TKT146		R452	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q461	6-550-752-01	TRANSISTOR DTC614TKT146		R453	1-216-864-11	SHORT CHIP 0	
Q471	6-550-752-01	TRANSISTOR DTC614TKT146		R461	1-216-809-11	METAL CHIP 100 5%	1/10W
Q478	1-801-806-11	TRANSISTOR DTC144EKA		R462	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146		R463	1-216-864-11	SHORT CHIP 0	
Q481	6-550-752-01	TRANSISTOR DTC614TKT146		R471	1-216-809-11	METAL CHIP 100 5%	1/10W
Q580	8-729-027-43	TRANSISTOR DTC114EKA-T146		R472	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q581	1-801-806-11	TRANSISTOR DTC144EKA		R479	1-216-805-11	METAL CHIP 47 5%	1/10W
Q582	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R481	1-216-809-11	METAL CHIP 100 5%	1/10W
Q631	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R482	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q651	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R501	1-216-864-11	SHORT CHIP 0	
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146		R502	1-216-809-11	METAL CHIP 100 5%	1/10W
< RESISTOR >				R503	1-216-809-11	METAL CHIP 100 5%	1/10W
R1	1-216-821-11	METAL CHIP 1K 5%	1/10W	R504	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R2	1-414-595-11	INDUCTOR, FERRITE BEAD		R505	1-218-871-11	METAL CHIP 10K 0.5%	1/10W
R3	1-414-595-11	INDUCTOR, FERRITE BEAD		R508	1-216-864-11	SHORT CHIP 0	
R4	1-216-839-11	METAL CHIP 33K 5%	1/10W	R509	1-216-811-11	METAL CHIP 150 5%	1/10W
R5	1-216-843-11	METAL CHIP 68K 5%	1/10W	R510	1-216-809-11	METAL CHIP 100 5%	1/10W
R6	1-216-839-11	METAL CHIP 33K 5%	1/10W	R511	1-216-809-11	METAL CHIP 100 5%	1/10W
R7	1-216-843-11	METAL CHIP 68K 5%	1/10W	R512	1-216-809-11	METAL CHIP 100 5%	1/10W
R8	1-216-839-11	METAL CHIP 33K 5%	1/10W	R513	1-216-845-11	METAL CHIP 100K 5%	1/10W
R9	1-216-843-11	METAL CHIP 68K 5%	1/10W	R514	1-216-845-11	METAL CHIP 100K 5%	1/10W
R12	1-216-864-11	SHORT CHIP 0		R517	1-216-841-11	METAL CHIP 47K 5%	1/10W
R13	1-216-864-11	SHORT CHIP 0		R518	1-216-864-11	SHORT CHIP 0	
R29	1-216-809-11	METAL CHIP 100 5%	1/10W	R519	1-216-845-11	METAL CHIP 100K 5%	1/10W
R51	1-216-797-11	METAL CHIP 10 5%	1/10W	R521	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R52	1-216-797-11	METAL CHIP 10 5%	1/10W	R522	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R53	1-414-595-11	INDUCTOR, FERRITE BEAD		R528	1-216-845-11	METAL CHIP 100K 5%	1/10W
R54	1-216-833-11	METAL CHIP 10K 5%	1/10W	R529	1-216-809-11	METAL CHIP 100 5%	1/10W
R55	1-216-864-11	SHORT CHIP 0		R531	1-216-845-11	METAL CHIP 100K 5%	1/10W
R56	1-414-595-11	INDUCTOR, FERRITE BEAD		R532	1-216-845-11	METAL CHIP 100K 5%	1/10W
R57	1-414-595-11	INDUCTOR, FERRITE BEAD		R533	1-216-845-11	METAL CHIP 100K 5%	1/10W
R58	1-414-595-11	INDUCTOR, FERRITE BEAD		R534	1-216-833-11	METAL CHIP 10K 5%	1/10W
R59	1-216-833-11	METAL CHIP 10K 5%	1/10W	R535	1-216-833-11	METAL CHIP 10K 5%	1/10W
R60	1-216-833-11	METAL CHIP 10K 5%	1/10W	R536	1-216-845-11	METAL CHIP 100K 5%	1/10W
R61	1-216-821-11	METAL CHIP 1K 5%	1/10W	R537	1-216-845-11	METAL CHIP 100K 5%	1/10W
R301	1-216-821-11	METAL CHIP 1K 5%	1/10W	R539	1-216-821-11	METAL CHIP 1K 5%	1/10W
R302	1-216-821-11	METAL CHIP 1K 5%	1/10W	R540	1-216-845-11	METAL CHIP 100K 5%	1/10W
R401	1-216-797-11	METAL CHIP 10 5%	1/10W	R541	1-216-845-11	METAL CHIP 100K 5%	1/10W
R405	1-218-881-11	METAL CHIP 27K 0.5%	1/10W	R542	1-216-821-11	METAL CHIP 1K 5%	1/10W
R406	1-216-809-11	METAL CHIP 100 5%	1/10W	R543	1-216-821-11	METAL CHIP 1K 5%	1/10W
R407	1-216-809-11	METAL CHIP 100 5%	1/10W	R544	1-216-821-11	METAL CHIP 1K 5%	1/10W
R408	1-216-809-11	METAL CHIP 100 5%	1/10W	R547	1-216-864-11	SHORT CHIP 0	
				R550	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R551	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R557	1-216-809-11	METAL CHIP 100 5%	1/10W
				R561	1-216-845-11	METAL CHIP 100K 5%	1/10W
				R563	1-216-845-11	METAL CHIP 100K 5%	1/10W

CDX-S2250/S2250S

MAIN **SENSOR** **SERVO**

Ref. No.	Part No.	Description			Remark
R564	1-216-845-11	METAL CHIP	100K	5%	1/10W
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R570	1-216-817-11	METAL CHIP	470	5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R584	1-216-841-11	METAL CHIP	47K	5%	1/10W
R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R633	1-216-841-11	METAL CHIP	47K	5%	1/10W
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-833-11	METAL CHIP	10K	5%	1/10W
R654	1-216-833-11	METAL CHIP	10K	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	1-216-833-11	METAL CHIP	10K	5%	1/10W
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R681	1-216-864-11	SHORT CHIP	0		
R703	1-216-864-11	SHORT CHIP	0		
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-864-11	SHORT CHIP	0		
R707	1-216-864-11	SHORT CHIP	0		
R752	1-216-811-11	METAL CHIP	150	5%	1/10W
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
< SWITCH >					
S702	1-786-826-11	SWITCH, TACTILE (RESET)			
< TUNER >					
TU1	A-3220-961-A	TUNER UNIT (TUX-032)			
< VIBRATOR >					
X51	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)			

SENSOR BOARD					

< SWITCH >					
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)			

Ref. No.	Part No.	Description			Remark
	A-1075-784-A	SERVO BOARD, COMPLETE			

< CAPACITOR >					
C4	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C5	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C7	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C9	1-104-609-11	ELECT CHIP	100uF	20%	4V
C10	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C13	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C16	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C17	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C18	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C19	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C20	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C21	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C22	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C23	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C24	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C28	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C29	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C31	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C32	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C33	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C34	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C35	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C36	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C37	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C38	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C39	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C40	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C41	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C42	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C43	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C45	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C47	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C48	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C49	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C51	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C52	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C53	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C57	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C58	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C59	1-112-195-11	ELECT	47uF	20%	4V
C60	1-112-195-11	ELECT	47uF	20%	4V
C61	1-126-208-21	ELECT CHIP	47uF	20%	4V
C62	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C64	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C65	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C67	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C72	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C80	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C101	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C103	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C106	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< CONNECTOR >						R53	1-218-941-81	RES-CHIP	100	5%	1/16W
CN1	1-691-380-21	CONNECTOR, FFC/FPC 16P				R54	1-218-941-81	RES-CHIP	100	5%	1/16W
	CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P				R55	1-218-977-11	RES-CHIP	100K	5%
< JUMPER RESISTOR >						R56	1-218-941-81	RES-CHIP	100	5%	1/16W
FB2	1-216-864-11	SHORT CHIP	0			R57	1-218-941-81	RES-CHIP	100	5%	1/16W
	FB3	1-216-864-11	SHORT CHIP	0		R58	1-218-941-81	RES-CHIP	100	5%	1/16W
FB4	1-216-864-11	SHORT CHIP	0			R59	1-218-977-11	RES-CHIP	100K	5%	1/16W
						R60	1-218-977-11	RES-CHIP	100K	5%	1/16W
< IC >						R61	1-218-977-11	RES-CHIP	100K	5%	1/16W
IC1	6-707-327-01	IC BA5968FP-E2				R62	1-218-977-11	RES-CHIP	100K	5%	1/16W
IC2	6-707-328-01	IC TC94A60MFG-301				R63	1-218-977-11	RES-CHIP	100K	5%	1/16W
IC3	6-805-086-01	IC MB90487APFV-G-131-BNDE1				R64	1-218-977-11	RES-CHIP	100K	5%	1/16W
IC6	6-705-364-01	IC R1114N151D-TR-FA				R65	1-218-941-81	RES-CHIP	100	5%	1/16W
						R66	1-218-941-81	RES-CHIP	100	5%	1/16W
< TRANSISTOR >						R67	1-218-941-81	RES-CHIP	100	5%	1/16W
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R				R68	1-218-941-81	RES-CHIP	100	5%	1/16W
	Q2	8-729-904-87	TRANSISTOR 2SB1197K-R				R69	1-218-941-81	RES-CHIP	100	5%
Q3	8-729-928-90	TRANSISTOR DTC114EE				R70	1-218-941-81	RES-CHIP	100	5%	1/16W
< RESISTOR >						R71	1-220-804-11	RES-CHIP	2.2M	5%	1/16W
R1	1-218-941-81	RES-CHIP	100	5%	1/16W	R72	1-218-941-81	RES-CHIP	100	5%	1/16W
	R2	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W	R73	1-218-973-11	RES-CHIP	47K	5%
R3	1-208-912-11	METAL CHIP	11K	0.5%	1/16W	R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R4	1-218-969-11	RES-CHIP	22K	5%	1/16W	R77	1-218-941-81	RES-CHIP	100	5%	1/16W
R5	1-218-969-11	RES-CHIP	22K	5%	1/16W	R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R6	1-218-929-11	RES-CHIP	10	5%	1/16W	R80	1-218-941-81	RES-CHIP	100	5%	1/16W
	R7	1-218-929-11	RES-CHIP	10	5%	1/16W	R81	1-218-973-11	RES-CHIP	47K	5%
R8	1-218-967-11	RES-CHIP	15K	5%	1/16W	R82	1-218-973-11	RES-CHIP	47K	5%	1/16W
R9	1-218-967-11	RES-CHIP	15K	5%	1/16W	R83	1-218-973-11	RES-CHIP	47K	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W	R84	1-218-953-11	RES-CHIP	1K	5%	1/16W
						R86	1-218-969-11	RES-CHIP	22K	5%	1/16W
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W	R90	1-218-941-81	RES-CHIP	100	5%	1/16W
R12	1-218-977-11	RES-CHIP	100K	5%	1/16W	R91	1-218-941-81	RES-CHIP	100	5%	1/16W
R13	1-218-969-11	RES-CHIP	22K	5%	1/16W	R100	1-220-200-81	RES-CHIP	30K	5%	1/16W
R16	1-218-967-11	RES-CHIP	15K	5%	1/16W	R101	1-218-971-11	RES-CHIP	33K	5%	1/16W
R17	1-218-973-11	RES-CHIP	47K	5%	1/16W	R112	1-218-990-11	SHORT CHIP	0		
						R113	1-218-990-11	SHORT CHIP	0		
R19	1-218-967-11	RES-CHIP	15K	5%	1/16W	R116	1-218-977-11	RES-CHIP	100K	5%	1/16W
R21	1-218-973-11	RES-CHIP	47K	5%	1/16W	R117	1-218-977-11	RES-CHIP	100K	5%	1/16W
R22	1-218-990-11	SHORT CHIP	0			R118	1-218-977-11	RES-CHIP	100K	5%	1/16W
R23	1-218-979-11	RES-CHIP	150K	5%	1/16W	R119	1-218-977-11	RES-CHIP	100K	5%	1/16W
R24	1-218-962-11	RES-CHIP	5.6K	5%	1/16W	R120	1-218-990-11	SHORT CHIP	0		
R25	1-218-990-11	SHORT CHIP	0			R121	1-218-990-11	SHORT CHIP	0		
	R26	1-218-941-81	RES-CHIP	100	5%	1/16W	R122	1-218-990-11	SHORT CHIP	0	
R28	1-218-947-11	RES-CHIP	330	5%	1/16W	R123	1-218-990-11	SHORT CHIP	0		
R40	1-218-941-81	RES-CHIP	100	5%	1/16W	R125	1-218-941-81	RES-CHIP	100	5%	1/16W
R41	1-218-977-11	RES-CHIP	100K	5%	1/16W	R126	1-218-941-81	RES-CHIP	100	5%	1/16W
						R127	1-218-941-81	RES-CHIP	100	5%	1/16W
R42	1-218-977-11	RES-CHIP	100K	5%	1/16W	R128	1-218-941-81	RES-CHIP	100	5%	1/16W
R43	1-218-941-81	RES-CHIP	100	5%	1/16W	R131	1-216-864-11	SHORT CHIP	0		
R44	1-218-941-81	RES-CHIP	100	5%	1/16W	R132	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R45	1-218-989-11	RES-CHIP	1M	5%	1/16W						
R46	1-218-947-11	RES-CHIP	330	5%	1/16W	< SWITCH >					
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W	SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
R48	1-218-941-81	RES-CHIP	100	5%	1/16W						
R49	1-218-941-81	RES-CHIP	100	5%	1/16W	< VIBRATOR >					
R50	1-218-941-81	RES-CHIP	100	5%	1/16W	X1	1-813-371-21	VIBRATOR, CERAMIC (12MHz)			
R51	1-218-941-81	RES-CHIP	100	5%	1/16W	X2	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
R52	1-218-945-11	RES-CHIP	220	5%	1/16W						

CDX-S2250/S2250S

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

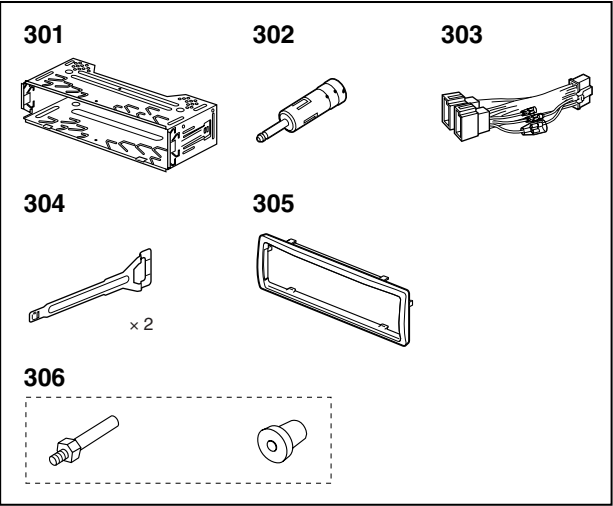
6	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)	
△ 153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	

ACCESSORIES

2-348-404-21	MANUAL, INSTRUCTION, INSTALL	
	(ENGLISH,GERMAN,FRENCH,ITALIAN,DUTCH)	
2-348-467-21	MANUAL, INSTRUCTION	
	(ENGLISH,GERMAN,FRENCH,ITALIAN,DUTCH)	
X-2024-133-1	CASE ASSY (for FRONT PANEL)	

PARTS FOR INSTALLATION AND CONNECTIONS

301	X-3382-647-1	FRAME ASSY, FITTING
302	1-465-459-41	ADAPTOR, ANTENNA
303	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)
304	3-246-011-01	KEY (FRAME)
305	2-187-743-01	COLLAR (S2250)
305	2-187-743-11	COLLAR (S2250S)
306	X-3366-972-2	SCREW ASSY (EXP), FITTING



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

MEMO

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.

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