

# CDX-GT315C

## SERVICE MANUAL

Ver. 1.1 2007.03

US Model  
Canadian Model  
AEP Model  
UK Model  
E Model



• The tuner and CD sections have no adjustments.

### AUDIO POWER SPECIFICATIONS (US MODEL)

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

Model Name Using Similar Mechanism	CDX-GT310/GT360
CD Drive Mechanism Type	MG-101TA-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 US, Canadian model:  
87.5 – 107.9 MHz  
AEP, UK model:  
87.5 – 108.0 MHz  
E model:  
87.5 – 108.0 MHz (at 50 kHz step)  
87.5 – 107.9 MHz (at 200 kHz step)  
FM tuning interval E model:  
50 kHz/200 kHz switchable

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

##### AM (US, Canadian model)

Tuning range 530 – 1,710 kHz  
 Antenna terminal External antenna connector  
 Intermediate frequency 10.7 MHz/450 kHz  
 Sensitivity 30 µV

– Continued on next page –

## FM/AM COMPACT DISC PLAYER

US, Canadian Model

## FM/MW/LW COMPACT DISC PLAYER

AEP, UK Model

## FM/MW/SW COMPACT DISC PLAYER

E Model

9-887-480-02  
2007C04-1  
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eVehicle Division  
Published by Sony Techno Create Corporation

# SONY®

# CDX-GT315C

## MW/LW (AEP, UK model)

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 µV, LW: 40 µV

## MW (E model)

Tuning range	531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
MW tuning interval	9 kHz/10 kHz switchable
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

## SW (E model)

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

## Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	AEP, UK model: 50 W × 4 (at 4 ohms) US, Canadian, E model: 52 W × 4 (at 4 ohms)

## General

Outputs	Audio outputs terminal (sub/rear switchable) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal (AEP, UK model) BUS control input terminal BUS audio input terminal Remote controller input terminal Antenna input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ±10 dB at 60 Hz (XPLOD) Mid: ±10 dB at 1 kHz (XPLOD) High: ±10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
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)

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

## 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.

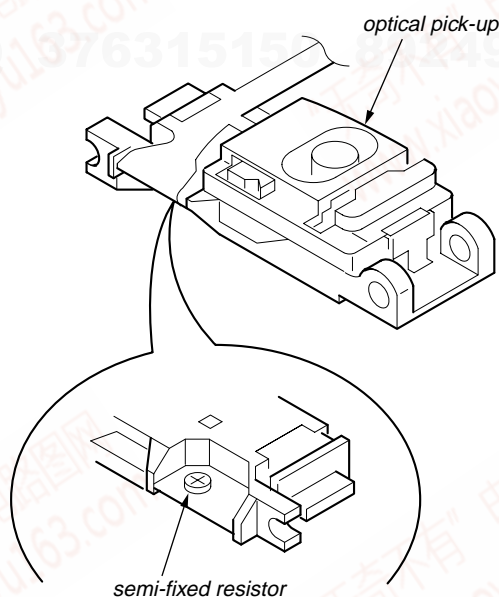
### NOTES ON LASER DIODE EMISSION CHECK

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.

### CAUTION

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

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



## SAFETY-RELATED COMPONENT WARNING!!

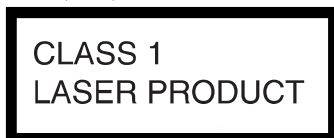
COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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







- AEP, UK, E model



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 files also containing Multi Session).

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

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

### ● 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 40C 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.

### 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.

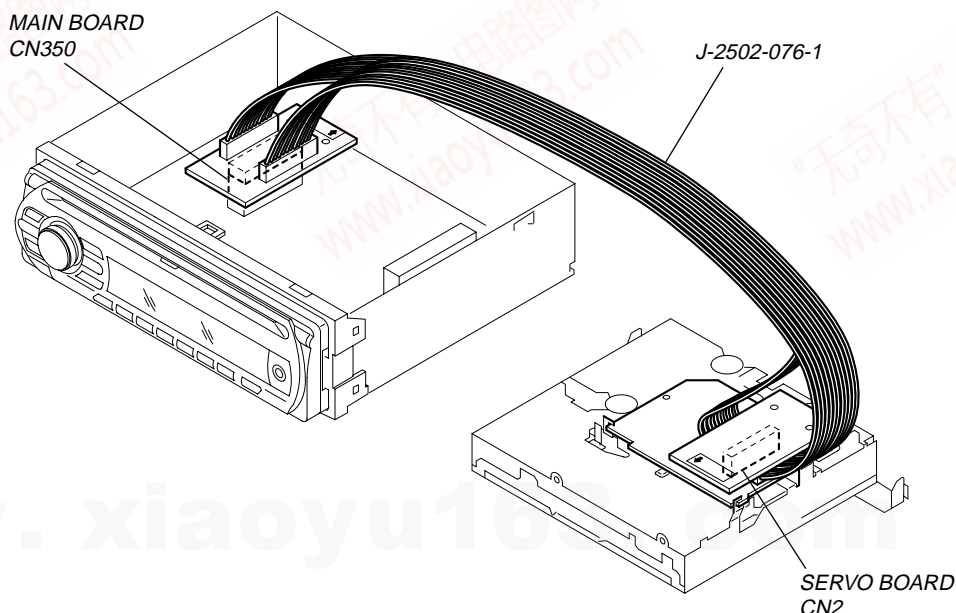
YDES-18 (Part No. 3-702-101-01)

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

### 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).



# CDX-GT315C

Ver. 1.1

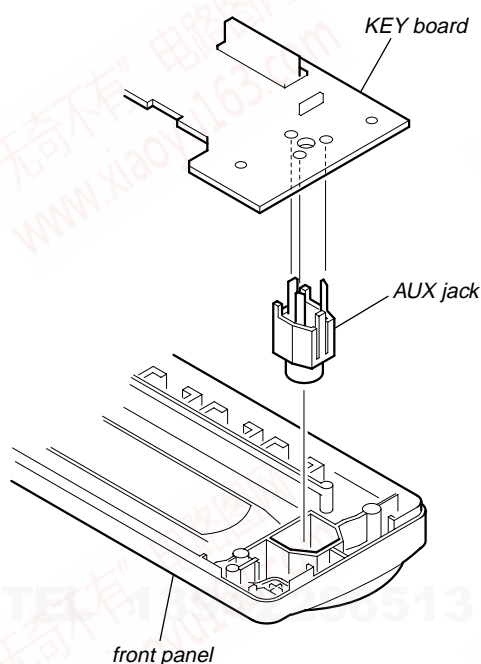
## NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1177-201-A) should be replaced since any parts in the SERVO board cannot be repaired.

## NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

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



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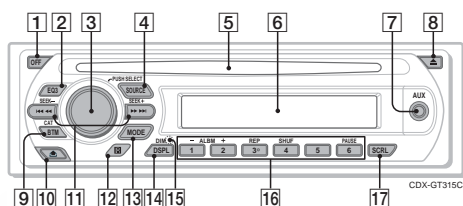
SECTION 1  
GENERAL

This section is extracted from instruction manual.

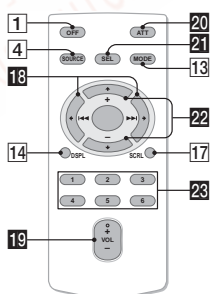
- LOCATION OF CONTROLS
- US, Canadian model

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 9**  
To select an equalizer type (XPLOD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 3 **Volume control dial/select button 9**  
To adjust volume (rotate); select setup items (press and rotate).
- 4 **SOURCE button**  
To power on; change the source (Radio/CD/MD<sup>\*1</sup>/AUX/SAT<sup>\*2</sup>).
- 5 **Disc slot**  
Insert the disc (label side up), playback starts.
- 6 **Display window**
- 7 **AUX input jack 11**  
To connect a portable audio device.
- 8 **(eject) button**  
To eject the disc.
- 9 **BTM/CAT<sup>\*2</sup> button 8**  
To start the BTM function (press and hold).
- 10 **(front panel release) button 5**
- 11 **SEEK -/+ buttons**  
CD:  
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).  
Radio:  
To tune in stations automatically (press); find a station manually (press and hold).
- 12 **Receptor for the card remote commander**
- 13 **MODE button 8, 11**  
To select the radio band (FM/AM); select the SAT tuner band (mode)<sup>\*2</sup>; select the unit<sup>\*2</sup>.
- 14 **DSPL (display)/DIM (dimmer) button 8**  
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<sup>\*1</sup>:  
①/②: **ALBM -/+<sup>\*3\*</sup>**  
To skip albums (press); skip albums continuously (press and hold).  
③: **REP 8**  
④: **SHUF 8**  
⑤: **PAUSE<sup>\*6</sup>**  
To pause playback. To cancel, press again.  
Radio:  
To receive stored stations (press); store stations (press and hold).
- 17 **SCRL (scroll) button 8**  
To scroll the display item.

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

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

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

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

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

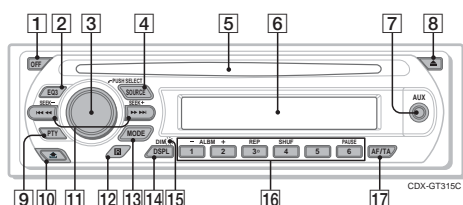
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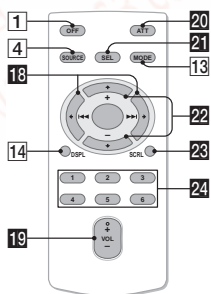
- AEP, UK model

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 (XPLOD, 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<sup>\*1</sup>/AUX).
- 5 **Disc slot**  
Insert the disc (label side up), playback starts.
- 6 **Display window**
- 7 **AUX input jack 12**  
To connect a portable audio device.
- 8 **(eject) button**  
To eject the disc.
- 9 **PTY (Program Type) button 10**  
To select PTY in RDS.
- 10 **(front panel release) button 5**
- 11 **SEEK -/+ buttons**  
CD:  
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).  
Radio:  
To tune in stations automatically (press); find a station manually (press and hold).
- 12 **Receptor for the card remote commander**
- 13 **MODE button 8, 13**  
To select the radio band (FM/MW/LW); select the unit<sup>\*2</sup>.
- 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<sup>\*1</sup>:  
①/②: **ALBM -/+<sup>\*3\*</sup>**  
To skip albums (press); skip albums continuously (press and hold).  
③: **REP 8**  
④: **SHUF 8**  
⑤: **PAUSE<sup>\*5</sup>**  
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.

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

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

<sup>\*1</sup> When an MD changer is connected.  
<sup>\*2</sup> When a CD/MD changer is connected.  
<sup>\*3</sup> When an MP3/WMA is played.  
<sup>\*4</sup> If the changer is connected, the operation is different; see page 13.  
<sup>\*5</sup> When playing back on this unit.

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

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

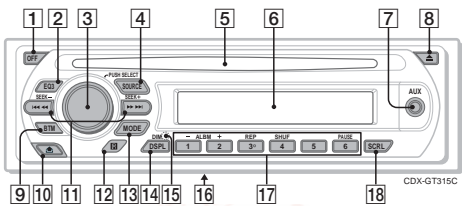
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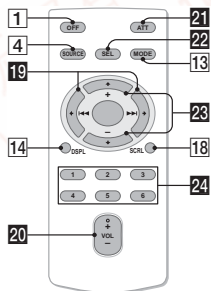
• E model

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** 9  
To select an equalizer type (XPLD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).
- 3 **Volume control dial/select button** 9  
To adjust volume (rotate); select setup items (press and rotate).
- 4 **SOURCE button**  
To power on; change the source (Radio/CD/MD\*/AUX).
- 5 **Disc slot**  
Insert the disc (label side up), playback starts.
- 6 **Display window**
- 7 **AUX input jack** 10  
To connect a portable audio device.
- 8 **(eject) button**  
To eject the disc.
- 9 **BTM button** 8  
To start the BTM function (press and hold).
- 10 **(front panel release) button** 5
- 11 **SEEK +/- buttons**  
CD:  
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).  
Radio:  
To tune in stations automatically (press); find a station manually (press and hold).
- 12 **Receptor for the card remote commander**
- 13 **MODE button** 8, 11  
To select the radio band (FM/MW/SW); select the unit\*2.
- 14 **DSPL (display)/DIM (dimmer) button** 8  
To change display items (press); change the display brightness (press and hold).
- 15 **RESET button** (located behind the front panel) 4
- 16 **Frequency select switch** (located on the bottom of the unit)  
See "Frequency select switch" in the supplied installation/connections manual.
- 17 **Number buttons**  
CD/MD\*1:  
① ②: **ALBM +/-**\*3\*4  
To skip albums (press); skip albums continuously (press and hold).  
③: **REP** 8  
④: **SHUF** 8  
⑤: **PAUSE**\*5  
To pause playback. To cancel, press again.  
Radio:  
To receive stored stations (press); store stations (press and hold).
- 18 **SCRL (scroll) button** 8  
To scroll the display item.

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

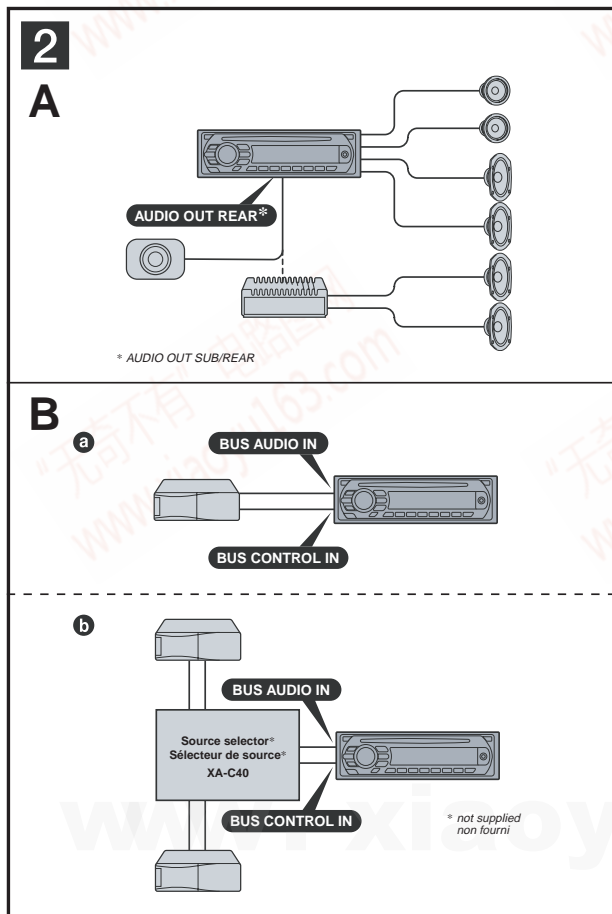
- 19 **(SEEK) buttons**  
To control CD/radio, the same as (SEEK) +/- on the unit.
- 20 **VOL (volume) +/- button**  
To adjust volume.
- 21 **ATT (attenuate) button**  
To attenuate the sound. To cancel, press again.
- 22 **SEL (select) button**  
The same as the select button on the unit.
- 23 **(+/-)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

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

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

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

• CONNECTIONS  
• US, Canadian model



Connection example 2

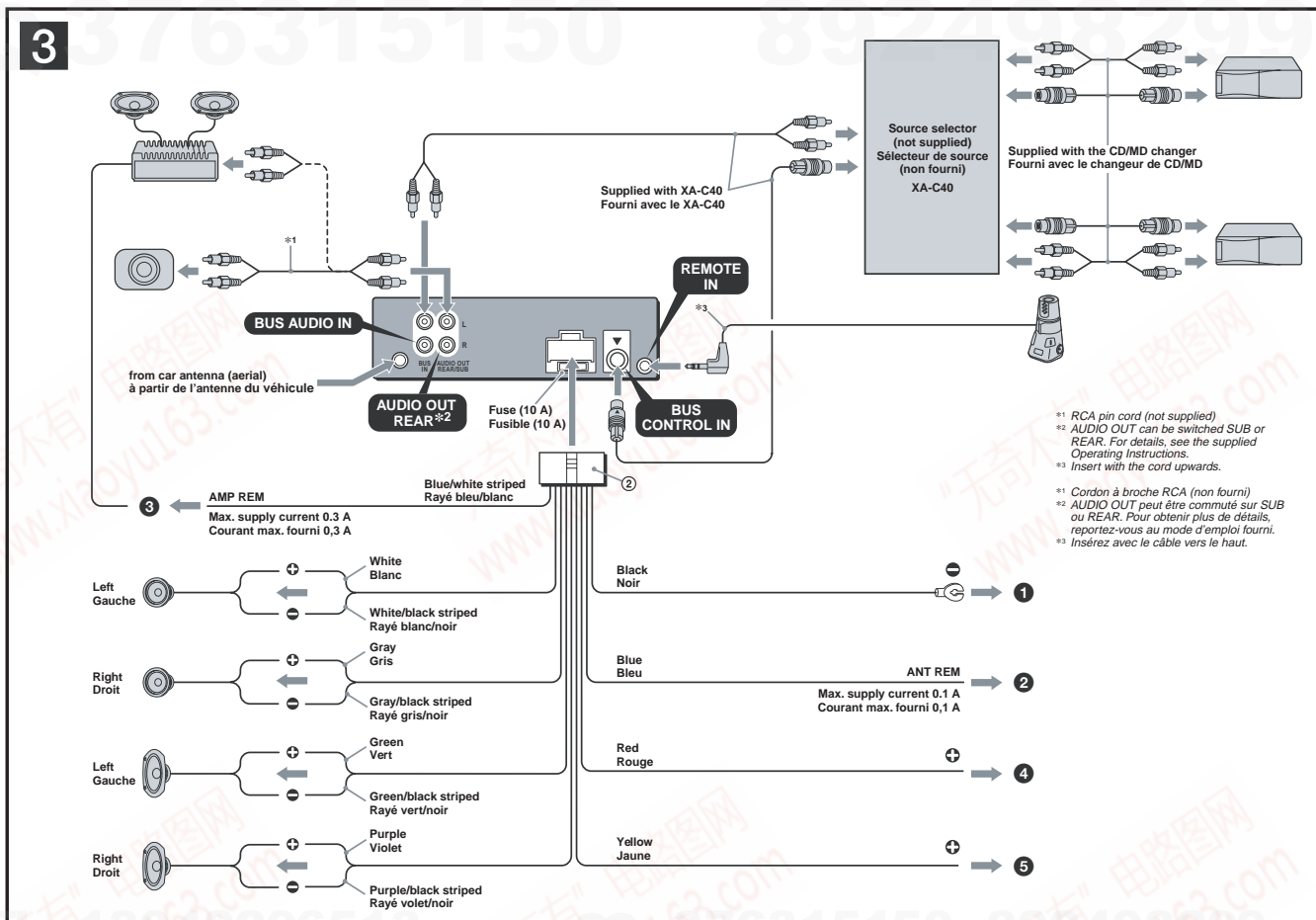
- Notes (2-A)**
- Be sure to connect the ground (earth) lead before connecting the amplifier.
  - The alarm will only sound if the built-in amplifier is used.

**Tip (2-B-①)**  
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

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-①)**  
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C40 (non fourni) est requis.



\*1 RCA pin cord (not supplied)  
 \*2 AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.  
 \*3 Insert with the cord upwards.  
 \*1 Cordon à broche RCA (non fourni)  
 \*2 AUDIO OUT peut être commuté sur SUB ou REAR. Pour obtenir plus de détails, reportez-vous au mode d'emploi fourni.  
 \*3 Insérez avec le câble vers le haut.

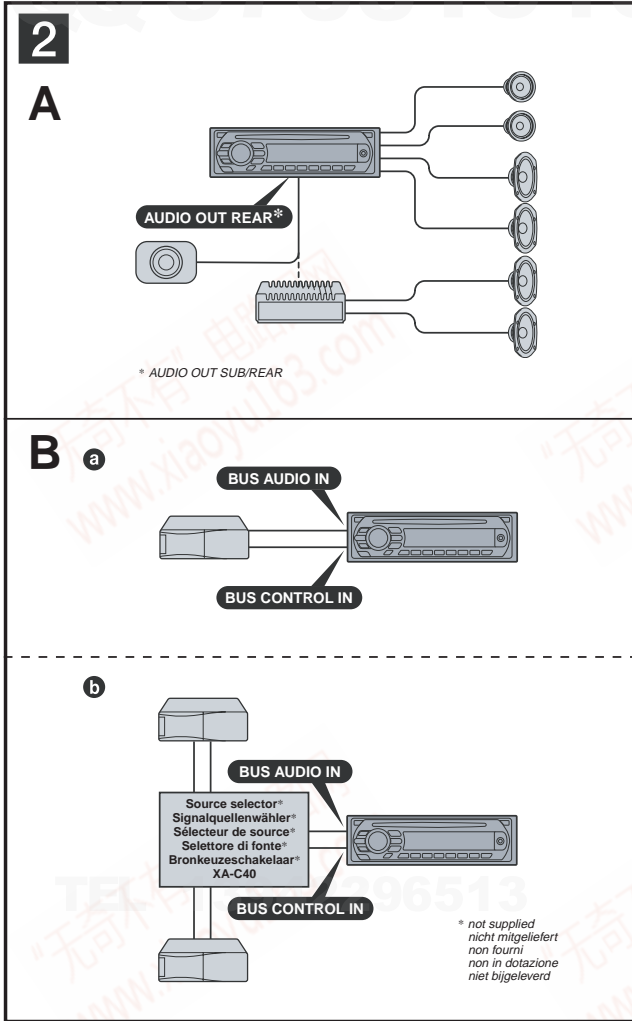
Connection diagram 3

- To a metal surface of the car**  
 First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**  
**Notes**
  - It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).
  - When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier**  
 This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the +12 V power terminal which is energized in the accessory position of the ignition switch**  
**Notes**
  - If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.
  - When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energized at all times**  
 Be sure to connect the black ground (earth) lead to a metal surface of the car first.  
**Notes on the control and power supply leads**
  - The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.
  - When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
  - A power antenna (aerial) without a relay box cannot be used with this unit.**Memory hold connection**  
 When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.  
**Notes on speaker connection**
  - Before connecting the speakers, turn the unit off.
  - Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
  - Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
  - Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
  - Do not attempt to connect the speakers in parallel.
  - Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
  - To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
  - Do not connect the unit's speaker leads to each other.**Note on connection**  
 If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement 3

- À un point métallique de la voiture**  
 Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'alimentation jaune et rouge.
- Au câble de commande d'antenne électrique ou au câble d'alimentation de l'amplificateur d'antenne**  
**Remarques**
  - Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
  - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**  
 Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**  
**Remarques**
  - S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.
  - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne +12 V qui est alimentée en permanence**  
 Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.  
**Remarques sur les câbles de commande et d'alimentation**
  - Le câble de commande d'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.
  - Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
  - Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.**Raccordement pour la conservation de la mémoire**  
 Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.  
**Remarques sur le raccordement des haut-parleurs**
  - Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
  - Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
  - Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
  - Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (-) du haut-parleur.
  - N'essayez pas de raccorder les haut-parleurs en parallèle.
  - Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
  - Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un câble négatif commun (-) pour les haut-parleurs droit et gauche.
  - Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.**Remarque sur le raccordement**  
 Si les haut-parleurs ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs sont bien raccordés.

• AEP, UK model



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-①)**

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-①)**

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-①)**

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-①)**

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

Voorbeeldaansluitingen **2**

Opmerkingen **(2-A)**

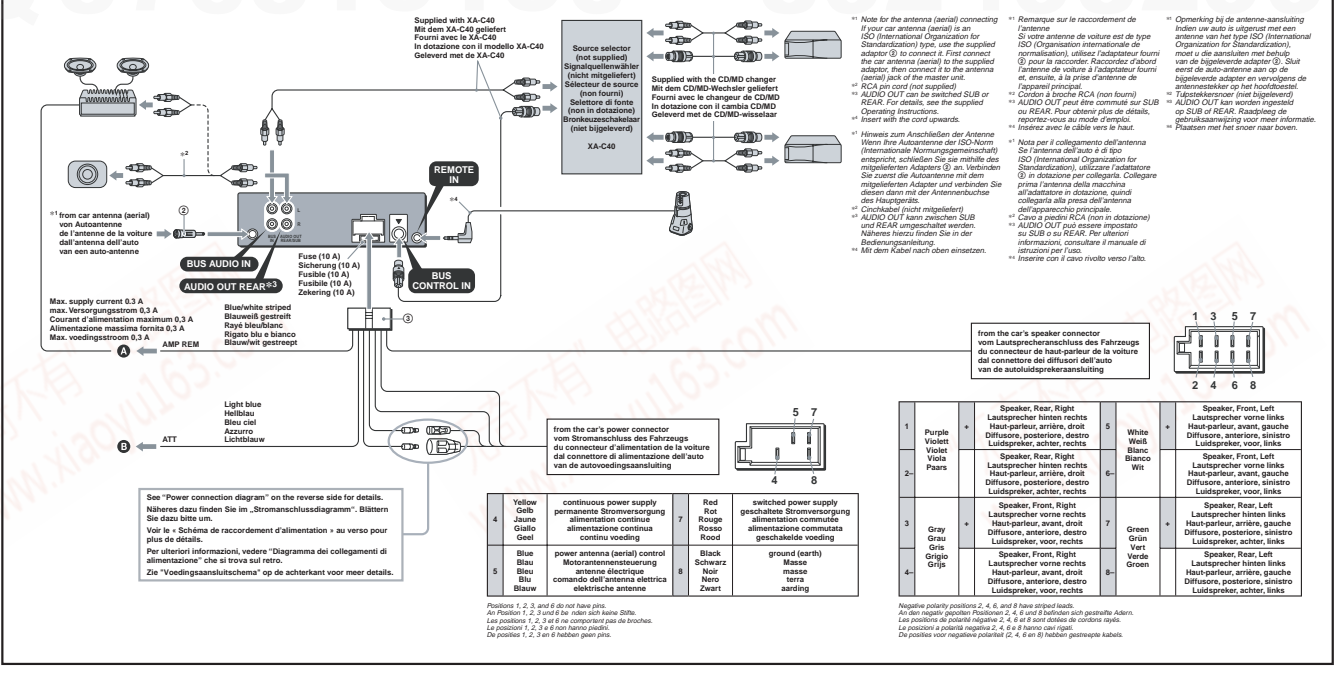
- Sluit eerst de aardingskabel aan voordat u de versterker aansluit.
- U hoort de piepton alleen als de ingebouwde versterker wordt gebruikt.

Tip **(2-B-①)**

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



3



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 power and 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 FMMW/LV antenna (aerial) in the rear-side glass, connect the power antenna (aerial) control lead (blue) of the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

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

**Notes on speaker connection**

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 Ohms, and with adequate power-handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers to 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.
- Correct 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 des gesondert erhältlichen Endverstärkers. Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran. Andernfalls kann das Gerät beschädigt werden.
- Ein Schnittstellenkabel eines Autotelefon

**Warnung**  
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-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenz) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.
- Wenn das Fahrzeug mit einer in der Heck-/Seitenfenstergläser integrierten FM (FMMW)/LVW (Lichtschalt) Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubeleuchtungsstromversorgungsleitung (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.
- 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 Lautspechrs.
- Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (-) Lautsprecheranschluss.
- Verbinden Sie nicht, Lautsprecher parallel anzuschließen.
- An die Lautsprecheranschlüsse dieses Geräts dürfen nur Resistorlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da dies 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**  
Wenn die Lautsprecher nicht richtig angeschlossen sind, erscheint "FAILURE" im Display. In diesem Fall, muss die Lautsprecher richtig angeschlossen sind.

Schémas de raccordement 3

- Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif. Ce raccordement est seulement pour les amplificateurs. Schließen Sie nichts anderes daran. Andernfalls kann das Gerät beschädigt werden.
- 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 radiodiffusion).
- Lorsque votre voiture est équipée d'une antenne FMMW (GO)/LV (PO) intégrée dans la vitre arrière/côtérale, 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 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.
- Ne raccordez 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.
- Né raccordez pas le câble de mise à la masse de cet appareil à la borne négative (-) de 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.
- Né raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

**Remarque sur le raccordement**  
Si les haut-parleurs ne sont pas raccordés correctement, le message "FAILURE" s'affiche. Dans ce cas, assurez-vous que les haut-parleurs sont raccordés correctement.

Schema di collegamento 3

- A 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 alimentazione a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario su traffico) o AF (frequenza alternativa).
- Se l'automobile è dotata di antenna FMMW/LV incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione ausiliaria al terminale 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 fra 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 dei diffusori destro a quelli del diffusore sinistro.
- Non collegare il cavo di terra di questo apparecchio al terminale negativo (-) dei diffusori.
- Non collegare i diffusori in parallelo.
- Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, ossia 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 tra loro i cavi dei diffusori dell'apparecchio.

**Note 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 frequenties) of TA (verkeersinformatie) functie activeert.
- Wanneer uw auto is uitgerust met een FMMW/LV-antenne in de achter-/zijruit, 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.
- Met dit apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.

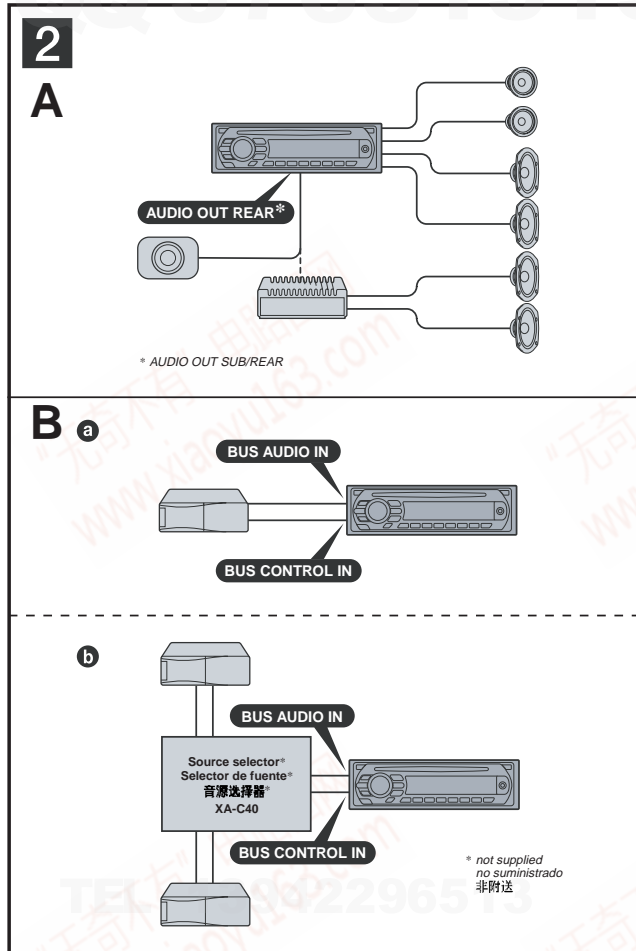
**Instaandruvan van het geheugen**  
Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer de contactschakelaar van de auto wordt uitgeschakeld.

**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 dit niet doet, kunnen de luidsprekers ernstig beschadigd raken.
- Verbind niet 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 aansluitingen 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 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 (-) kabel van twee rechter- en linkerluidsprekers is.
- Verbind de luidsprekerkabels niet met elkaar.

**Opmerking over aansluiten**  
Als de luidspreker en 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.

• E model



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-0)**

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

Ejemplo de conexiones **2**

Notas **(2-A)**

- Asegúrese de conectar primero el cable de conexión a masa antes de realizar la conexión del amplificador.
- La alarma sonará únicamente si se utiliza el amplificador incorporado.

Sugerencia **(2-B-0)**

Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C40 (no suministrado).

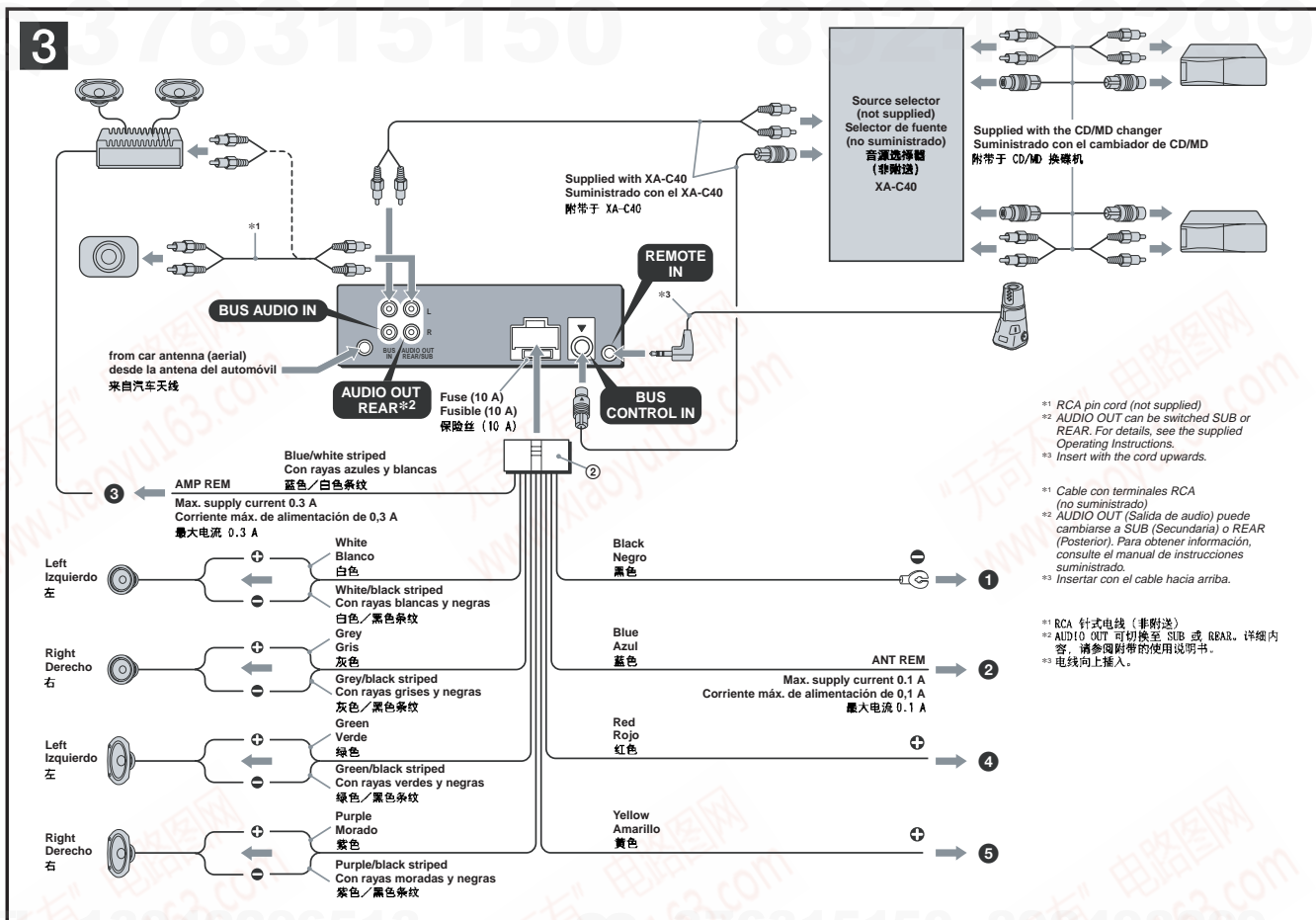
线路连接图例 **2**

注 **(2-A)**

- 务必在连接放大器之前连接接地线。
- 只有在内置的放大器时，警报才会发出声响。

提示 **(2-B-0)**

若要连接 2 台或更多 CD/MD 换碟机，必须使用音源选择器 XA-C40 (非附送)。



Connection diagram 3

- To a metal surface of the car**  
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
  - To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**  
Notes  
• It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).  
• When your car has a built-in FM/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
  - To AMP REMOTE IN of an optional power amplifier**  
This connection is only for amplifiers. Connecting any other system may damage the unit.
  - To the +12 V power terminal which is energized in the accessory position of the ignition switch**  
Notes  
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.  
• When your car has a built-in FM/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."
  - To the +12 V power terminal which is energized at all times**  
Be sure to connect the black ground (earth) lead to a metal surface of the car first.
- Notes on the control and power supply leads**
- The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.
  - When your car has built-in FM/MW/SW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
  - A power antenna (aerial) without a relay box cannot be used with this unit.
- Memory hold connection**  
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.
- Notes on speaker connection**
- Before connecting the speakers, turn the unit off.
  - Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
  - Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
  - Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
  - Do not attempt to connect the speakers in parallel.
  - Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
  - To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
  - Do not connect the unit's speaker leads to each other.
- Note on connection**  
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Diagrama de conexión 3

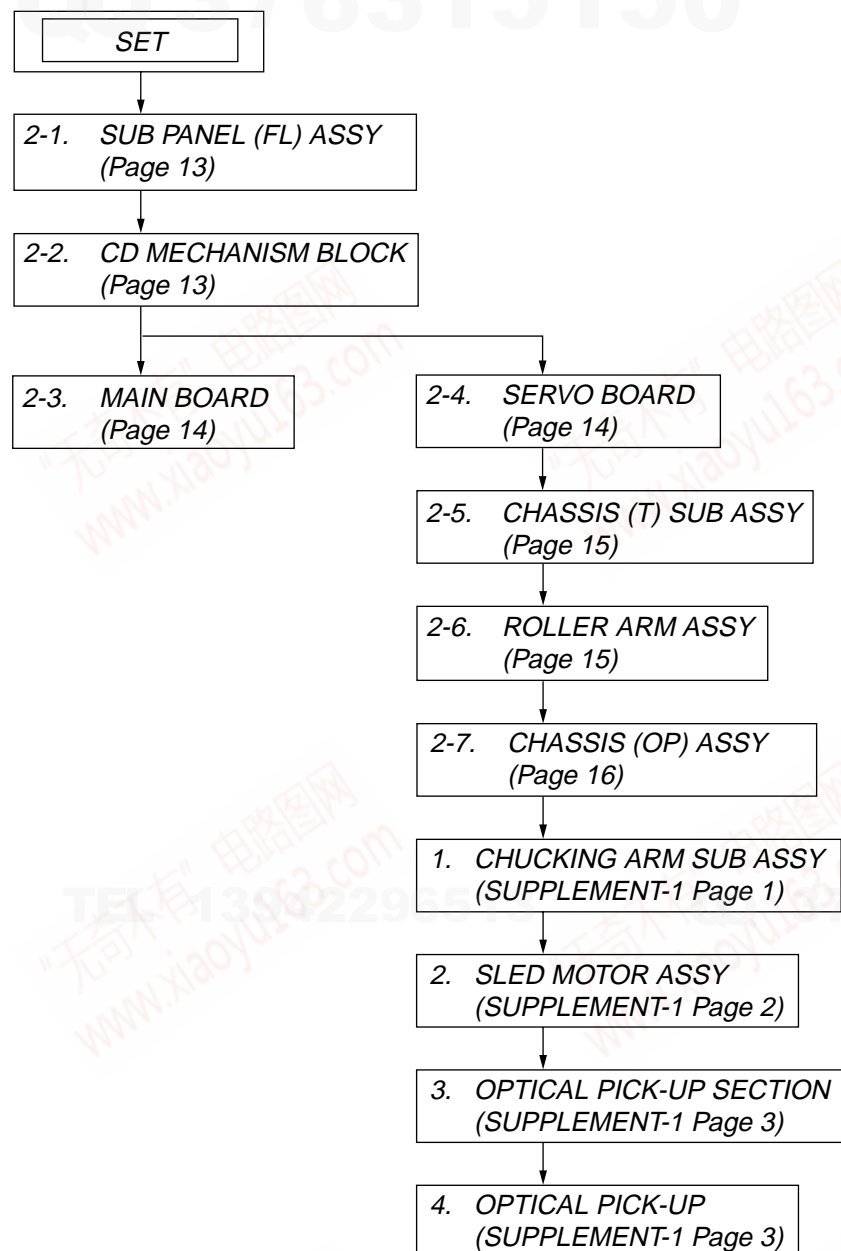
- A una superficie metálica del automóvil**  
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.
  - Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**  
Notes  
• Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.  
• Si el automóvil incorpora una antena de FM/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
  - A AMP REMOTE IN de un amplificador de potencia opcional**  
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
  - Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido**  
Notes  
• Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción. Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.  
• Si el automóvil incorpora una antena de FM/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
  - Al terminal de alimentación de +12 V que recibe energía sin interrupción**  
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- Notas sobre los cables de control y de fuente de alimentación**
- El cable de control de la antena motorizada (azul) suministrará cc de +12 V cuando conecte la alimentación del sintonizador.
  - Si el automóvil dispone de una antena de FM/MW/SW incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.
  - Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.
- Conexión para protección de la memoria**  
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.
- Notas sobre la conexión de los altavoces**
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
  - Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.
  - No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.
  - No conecte el cable de conexión a masa de esta unidad al terminal negativo (-) del altavoz.
  - No intente conectar los altavoces en paralelo.
  - Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
  - Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si la unidad comparte un cable negativo común (-) para los altavoces derecho e izquierdo.
  - No conecte los cables de altavoz de la unidad entre sí.
- Note sobre la conexión**  
Si el altavoz no está conectado correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión del altavoz.

线路连接图 3

- 至汽车金属表面**  
首先连接黑色地线，然后连接黄色和红色电源线。
  - 至电动天线控制导线或天线升缩器的电源导线**  
注  
• 如果没有电动天线或天线升缩器，或有手动伸缩式天线，则无需连接此导线。  
• 若汽车的后/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。
  - 至选购的功率放大器的 AMP REMOTE IN**  
此连接仅适用于功率放大器。连接其它系统可能损坏本机。
  - 至 +12 V 电源端子，该端子在点火开关附件位置通电**  
注  
• 如果没有附件位置，则连接至 +12 V 电源（蓄电池）端子。该端子随时处于通电状态。  
• 确保首先将黑色地线连接至汽车金属表面。  
• 若汽车的后/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。
  - 至 +12 V 电源端子，该端子随时处于通电状态**  
确保首先将黑色地线连接至汽车金属表面。
- 关于控制导线和电源导线的注意事项**
- 接通调谐器电源时，电动天线的控制导线（蓝色）便能提供 +12 V 直流电。
  - 当汽车的后/侧玻璃窗上有内置 FM/MW/SW 天线时，请将电动天线控制线（蓝色）或辅助电源线（红色）连接至现有天线升缩器上的电源端子。详细资料，请与您的经销商联系。
  - 本机不能使用不具备继电器盒的电动天线。
- 保持记忆的线路连接法**  
当连接了黄色的电源导线时，即使点火开关关闭，电源仍将记忆电路供电。
- 关于扬声器连接的注意事项**
- 连接扬声器之前，请关闭本机电源。
  - 请确保阻抗为 4~8 欧姆且具有足够功率处理能力的扬声器，以免损坏。
  - 勿将扬声器端子连接到汽车底盘上，或将右扬声器的端子与左扬声器的端子连接。
  - 勿将本机的地线连接到扬声器的负极 (-) 端子上。
  - 扬声器不可并联连接。
  - 请仅连接无源扬声器。将有源扬声器（具有内置放大器）连接到扬声器端子可能会损坏本机。
  - 若本机使用左、右扬声器的共用负极 (-) 导线，为了避免故障，切勿使用安装在汽车内的内置扬声器导线。
  - 请勿将本机扬声器导线相互连接。
- 连接的注意事项**  
如果未正确连接扬声器和放大器，则显示屏上会出现 "FAILURE"。这时，请确保扬声器和放大器连接正确。

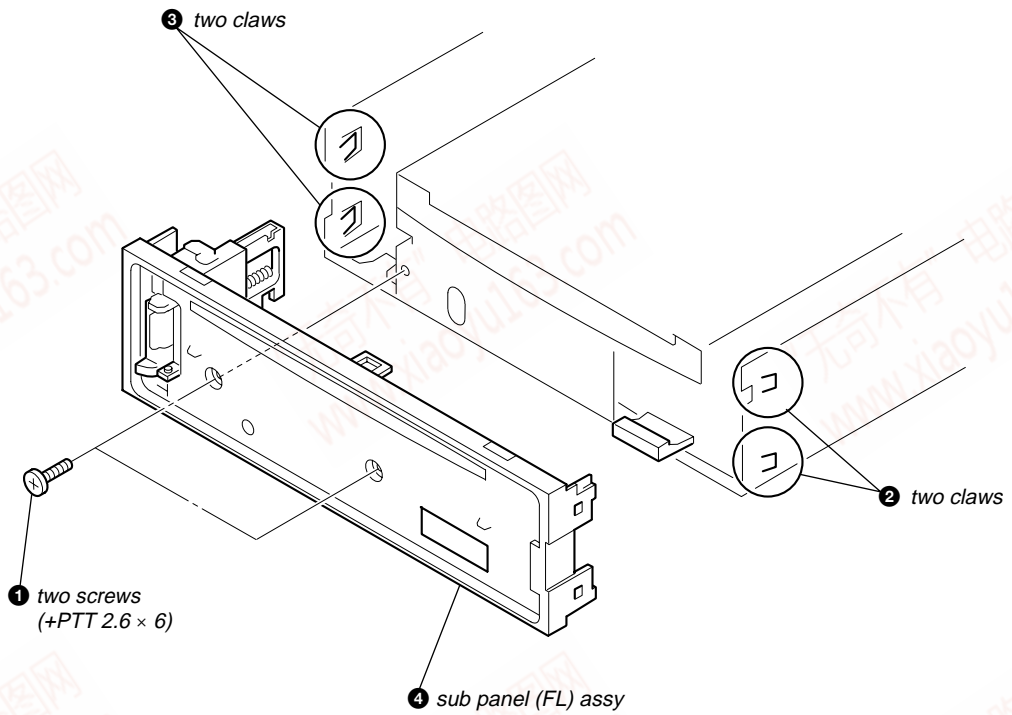
## SECTION 2 DISASSEMBLY

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

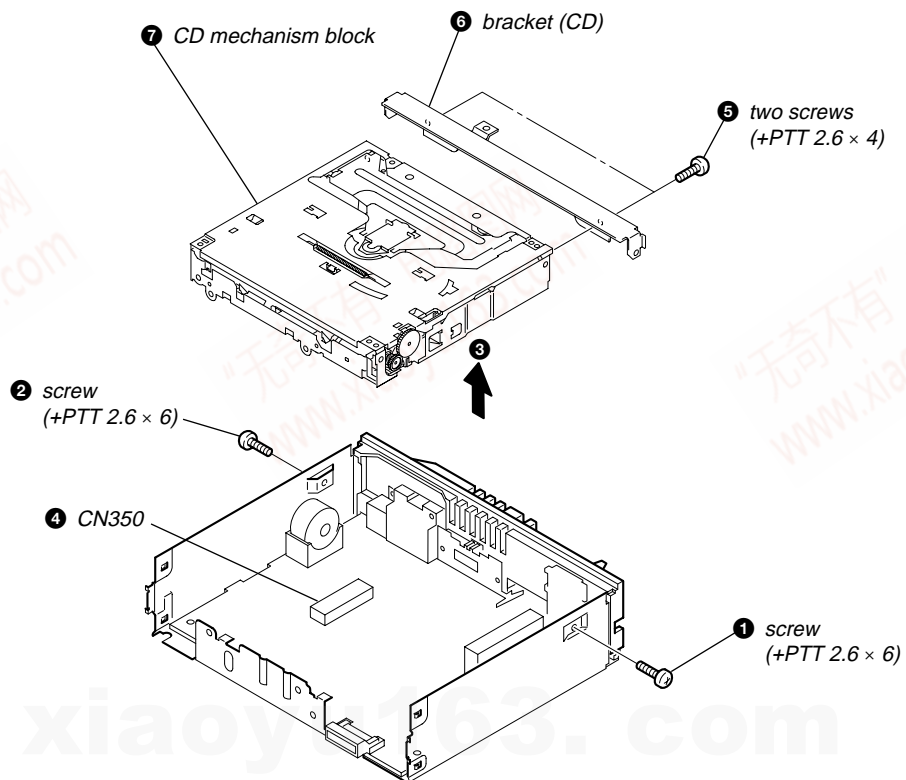


**Note:** Follow the disassembly procedure in the numerical order given.

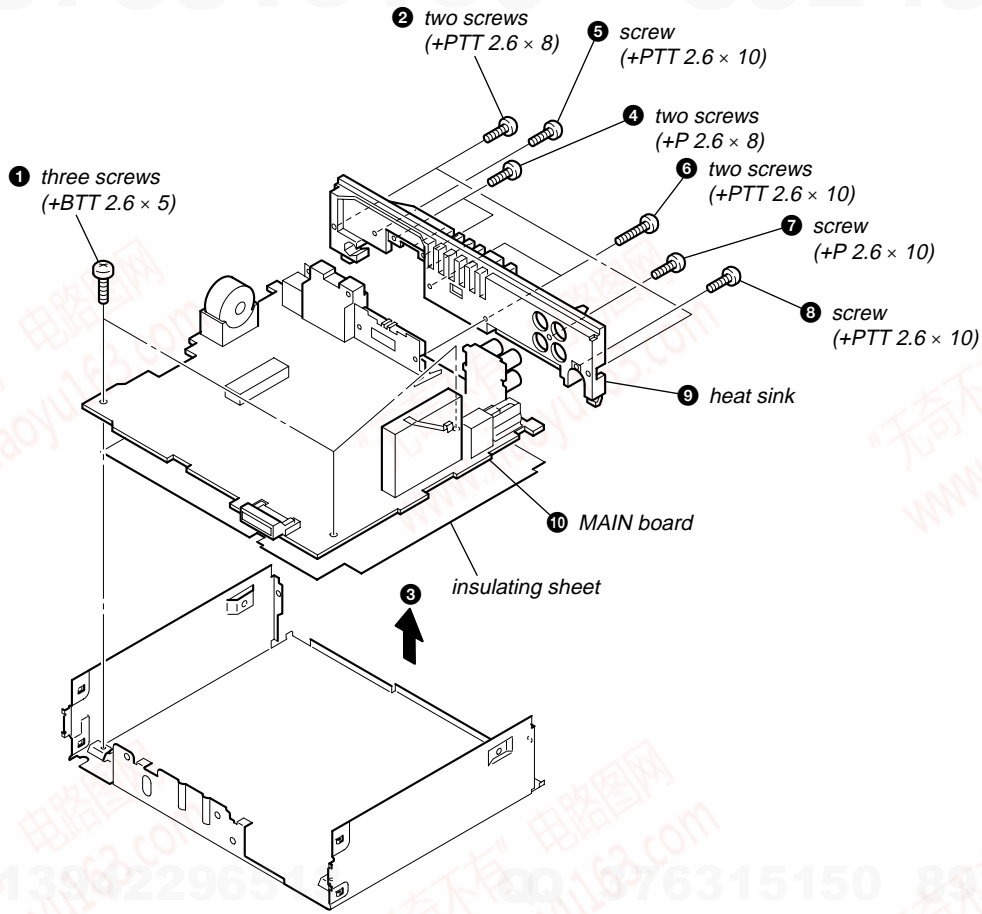
### 2-1. SUB PANEL (FL) ASSY



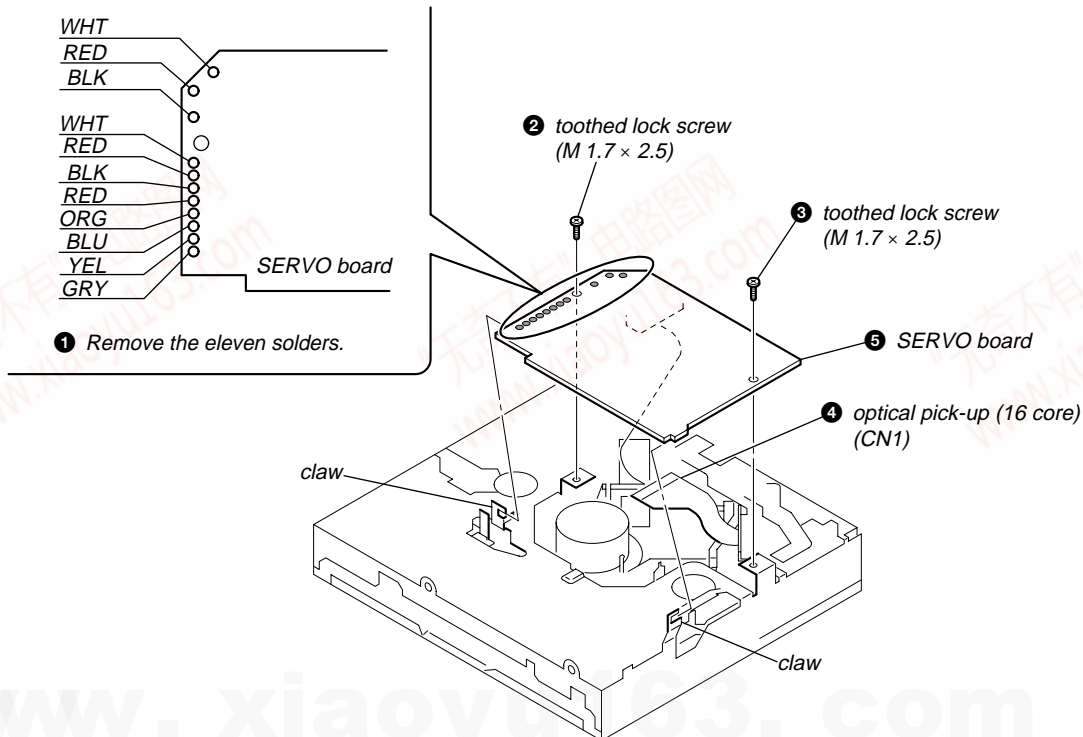
### 2-2. CD MECHANISM BLOCK



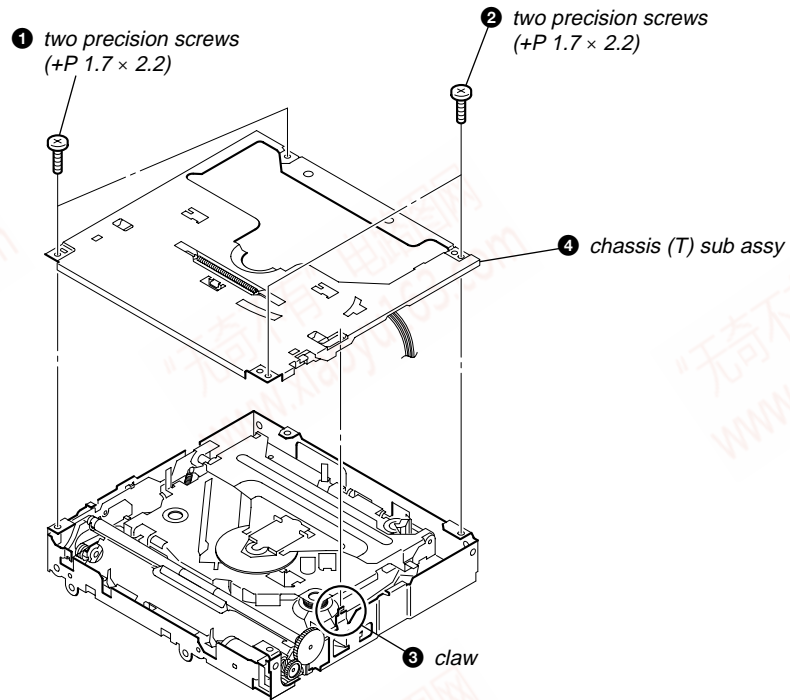
2-3. MAIN BOARD



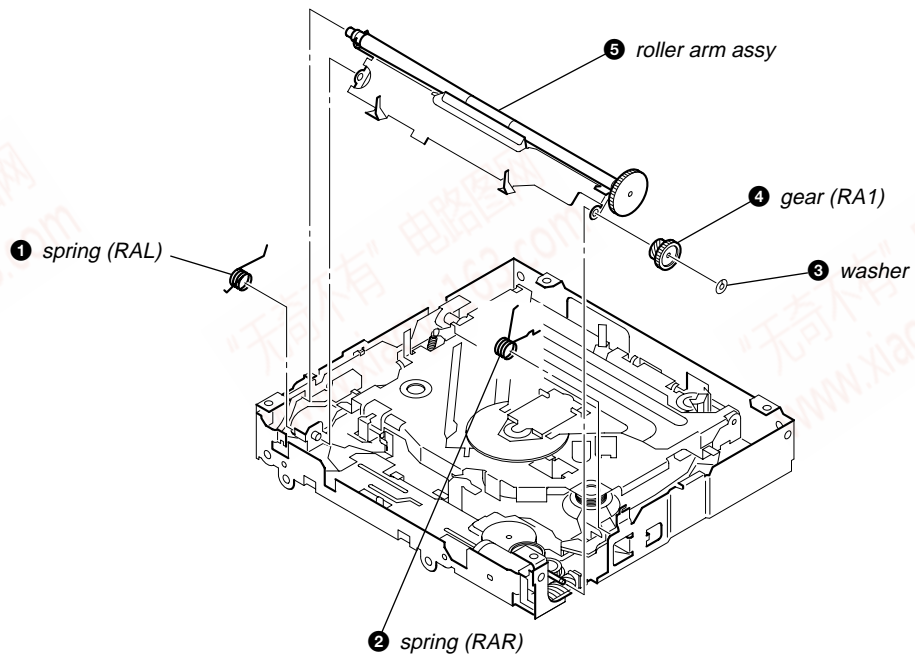
2-4. SERVO BOARD



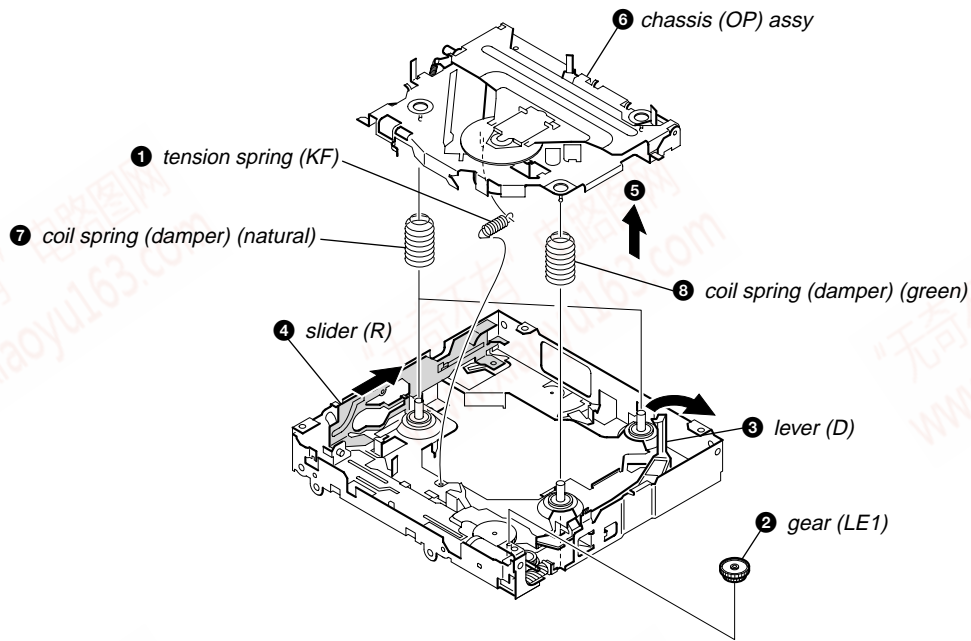
### 2-5. CHASSIS (T) SUB ASSY



### 2-6. ROLLER ARM ASSY



2-7. CHASSIS (OP) ASSY





## SECTION 3 DIAGNOSIS FUNCTION

### Description of the Diagnostics function:

#### 1. Setting the Diag display mode

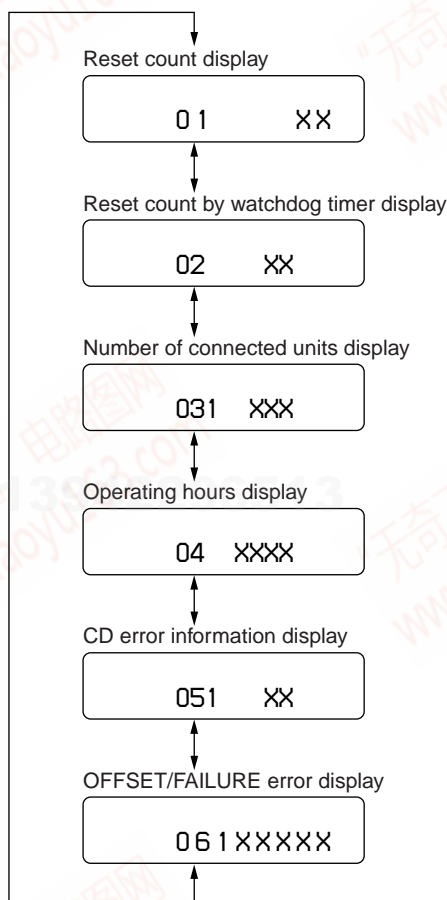
With the power off, press the [4] button, [5] button, and [4] button on the set body or the remote control (for more than 2 seconds) in turn.

#### 2. Canceling the Diag display mode

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

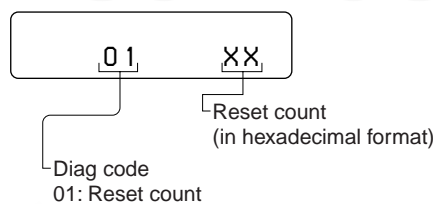
#### 3. Initial display in the Diag display mode.

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

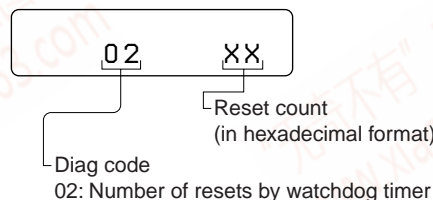


#### 4. Contents of each display mode

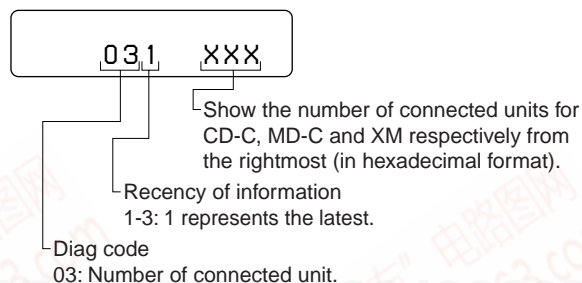
##### 4-1. Reset count display mode



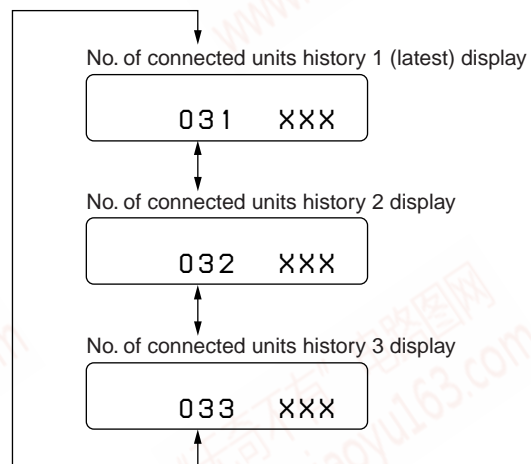
##### 4-2. Reset count by watchdog timer display mode



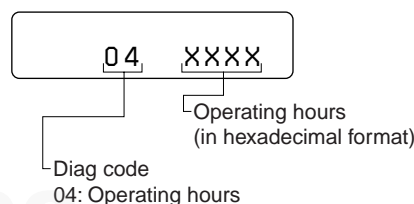
##### 4-3. Number of connected units display mode



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

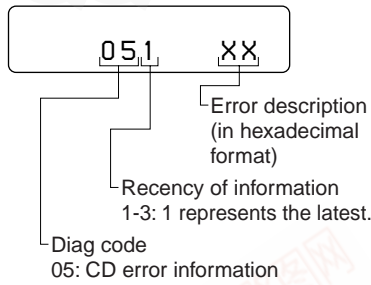


##### 4-4. Operating hours display mode



4-5. CD error information display mode

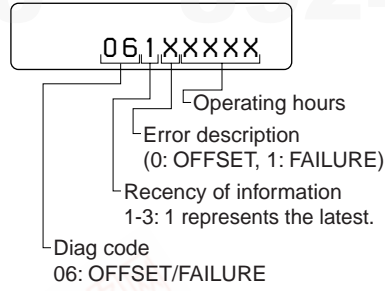
4-5-1. Error description



**Error information**

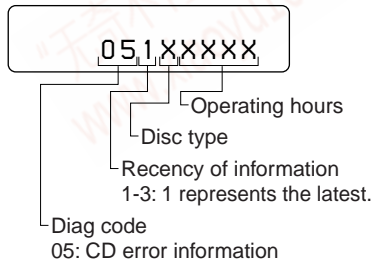
Indication	Description
1X	SERVO ERROR
3X	LOADING ERROR
4X	TRACK JUMP
5X	TEXT ERROR
FX	MECHA ERROR

4-6. OFFSET/FAILURE error display mode



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

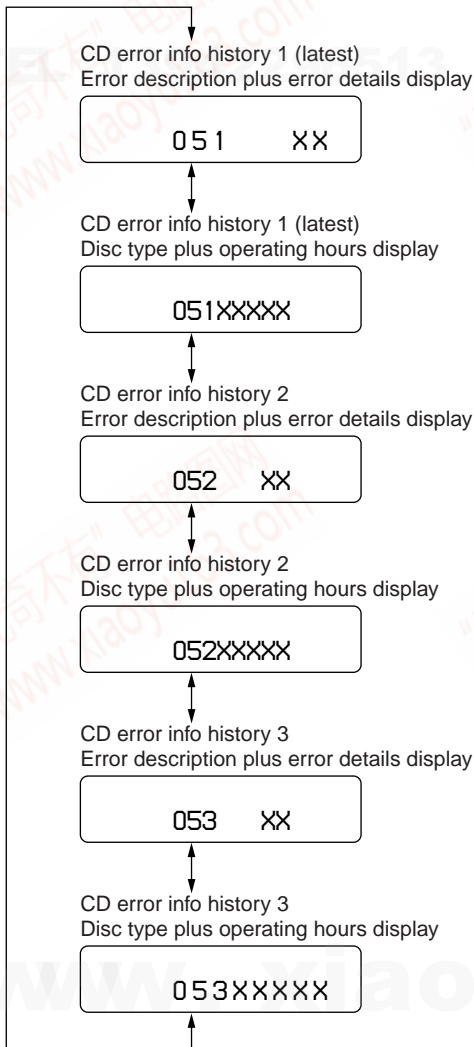
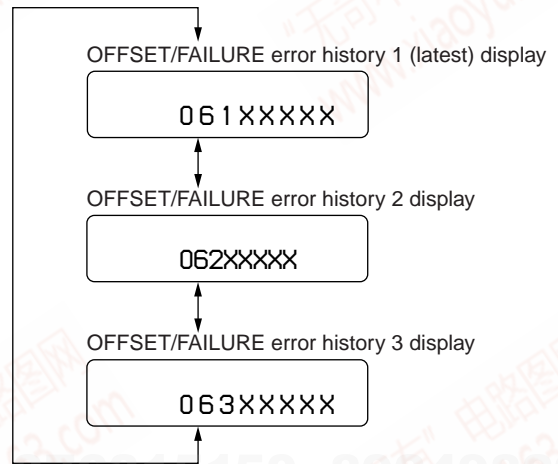
4-5-2. Disc type and operating hours



**Disc type**

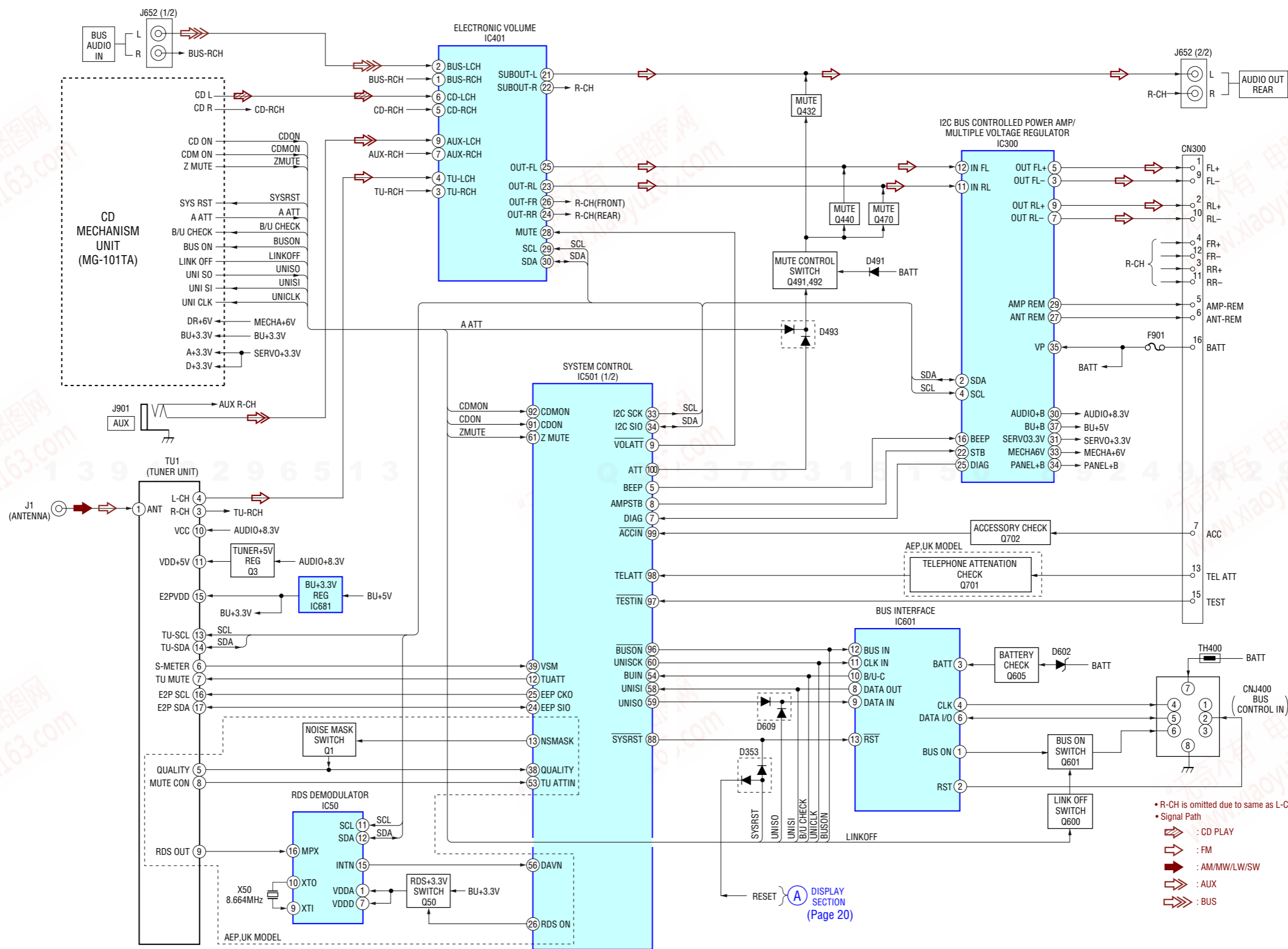
Indication	Disc type
0	MP3
1	WMA
2	AAC
3	ATRAC
8	CD/DA
F	UNKNOWN

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



### SECTION 4 DIAGRAMS

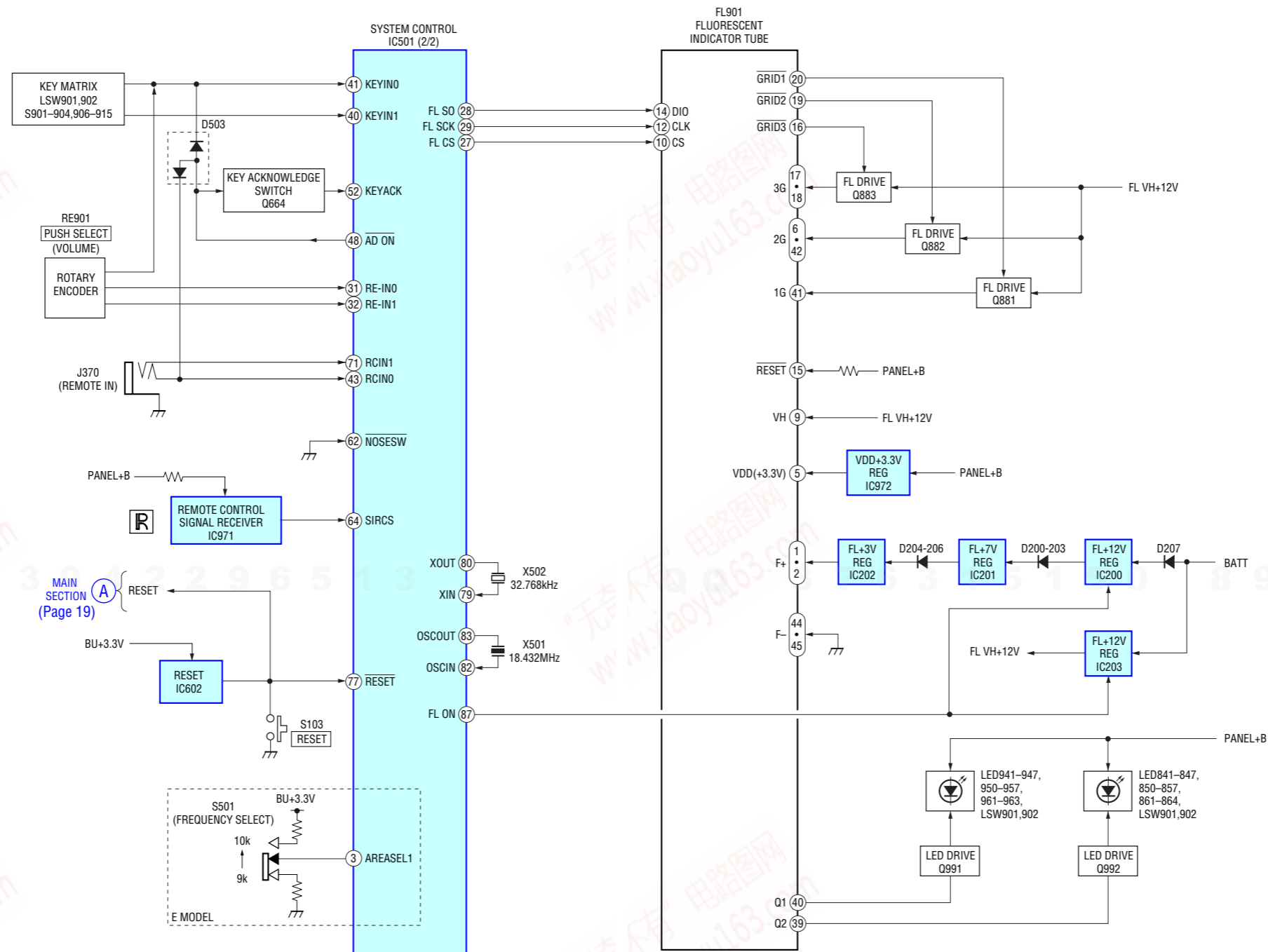
#### 4-1. BLOCK DIAGRAM — MAIN SECTION —



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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.

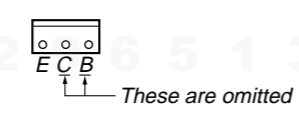
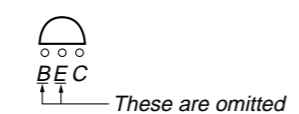
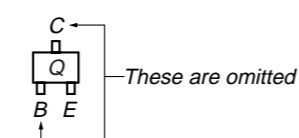
**Note:**  
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- ( ) : AM/MW/LW/SW
- <> : 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
- : AM/MW/LW/SW
- : AUX
- : BUS

**For printed wiring boards.**

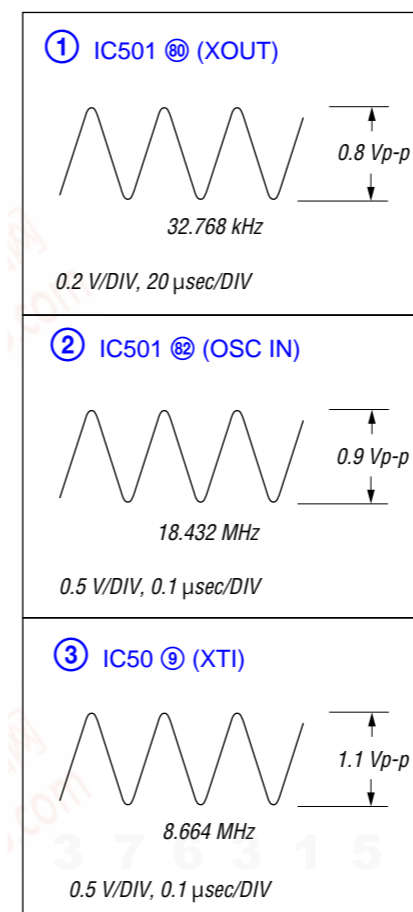
- Note:**
- : parts extracted from the component side.
  - : parts extracted from the conductor side.
  - : Through hole.
  - : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**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 —



• Semiconductor Location (MAIN Board)

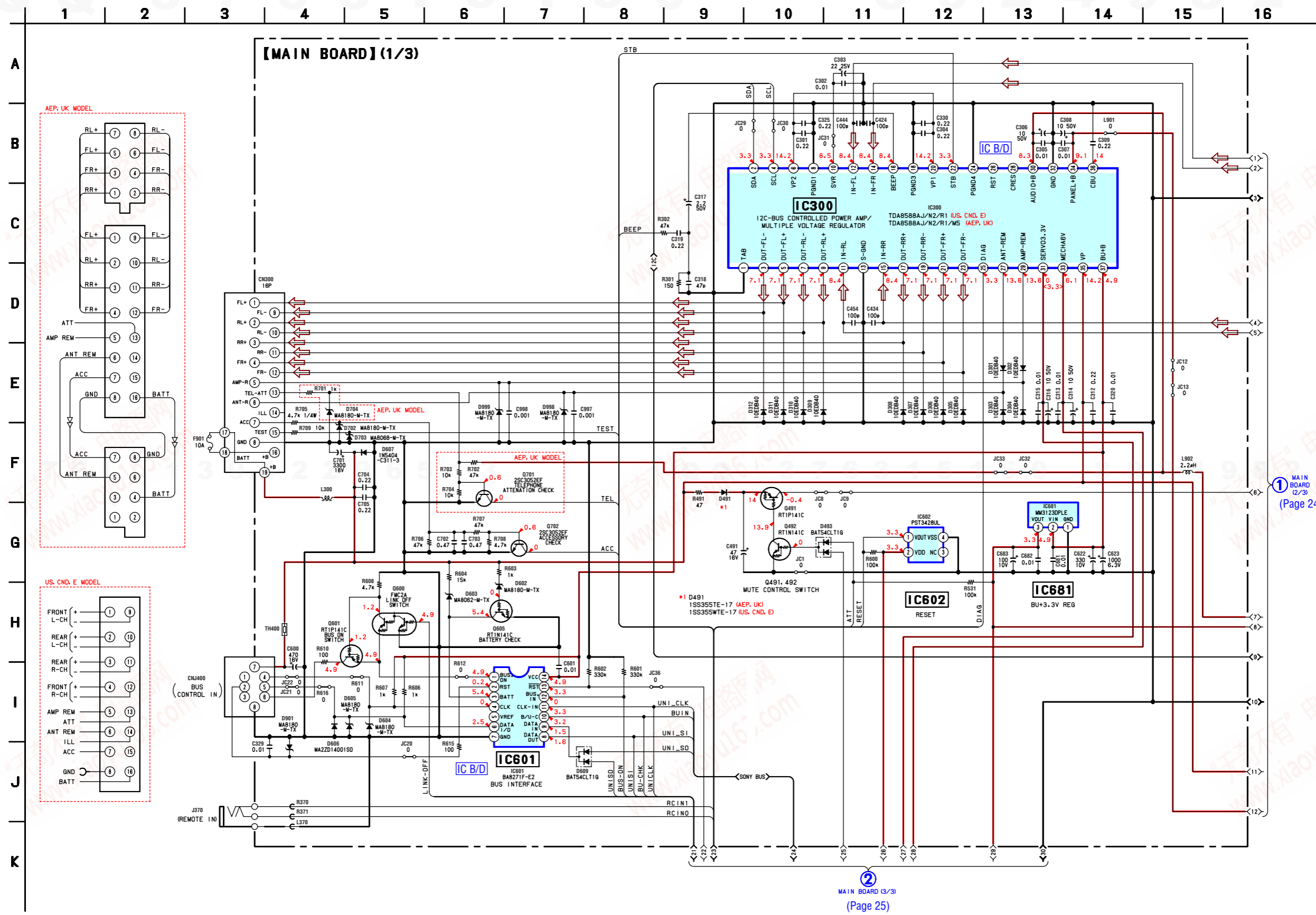
Ref. No.	Location	Ref. No.	Location
D2	F-3	D605	D-10
D101	I-4	D606	D-10
D103	I-3	D607	D-10
D104	I-3	D609	F-9
D105	I-3	D702	C-8
D106	I-3	D703	C-9
D108	I-3	D704	C-9
D109	I-4	D901	B-10
D110	I-4	D998	C-9
D111	I-4	D999	B-8
D112	I-4		
D113	I-4	IC50	H-2
D153	I-2	IC200	G-11
D200	H-10	IC201	I-10
D201	H-10	IC202	I-7
D202	H-10	IC203	H-9
D203	I-10	IC300	B-6
D204	I-9	IC401	D-3
D205	I-9	IC501	G-6
D206	I-9	IC601	E-10
D207	G-10	IC602	G-8
D301	C-8	IC681	D-6
D302	D-8		
D303	C-9	Q1	E-2
D304	D-9	Q3	F-3
D305	C-6	Q50	H-2
D306	C-6	Q420	B-4
D307	C-6	Q432	B-3
D308	C-6	Q440	B-4
D309	C-7	Q452	B-3
D310	C-7	Q460	C-4
D311	C-8	Q470	C-4
D312	D-7	Q491	E-6
D353	G-8	Q492	E-6
D491	E-5	Q600	E-10
D493	E-6	Q601	E-10
D501	I-5	Q605	D-10
D502	H-7	Q664	I-6
D602	D-10	Q701	C-9
D603	D-10	Q702	C-8
D604	E-10		

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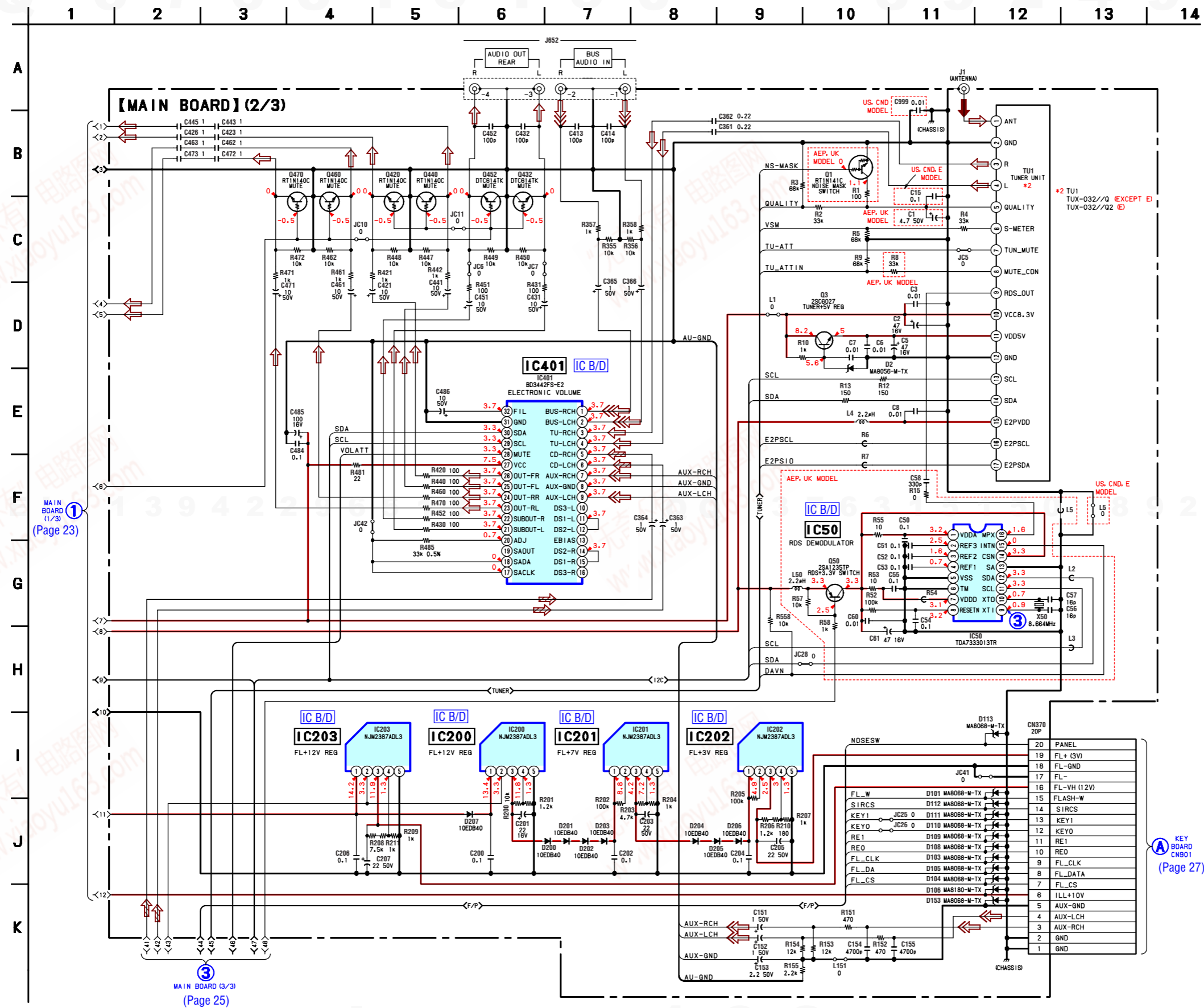
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4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 28 for IC Block Diagrams.



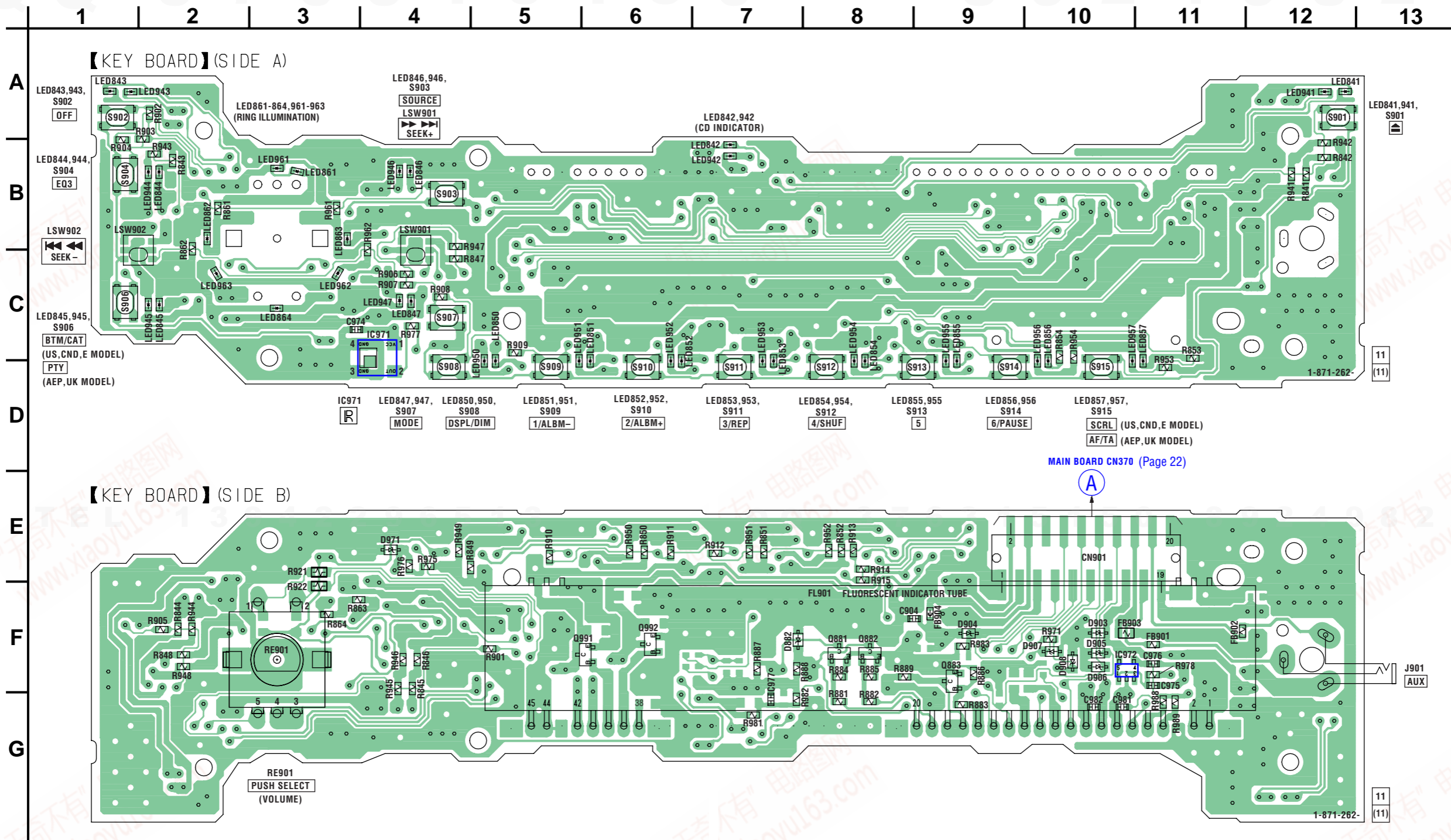
4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — Refer to page 21 for Waveforms. Refer to page 28 for IC Block Diagrams.







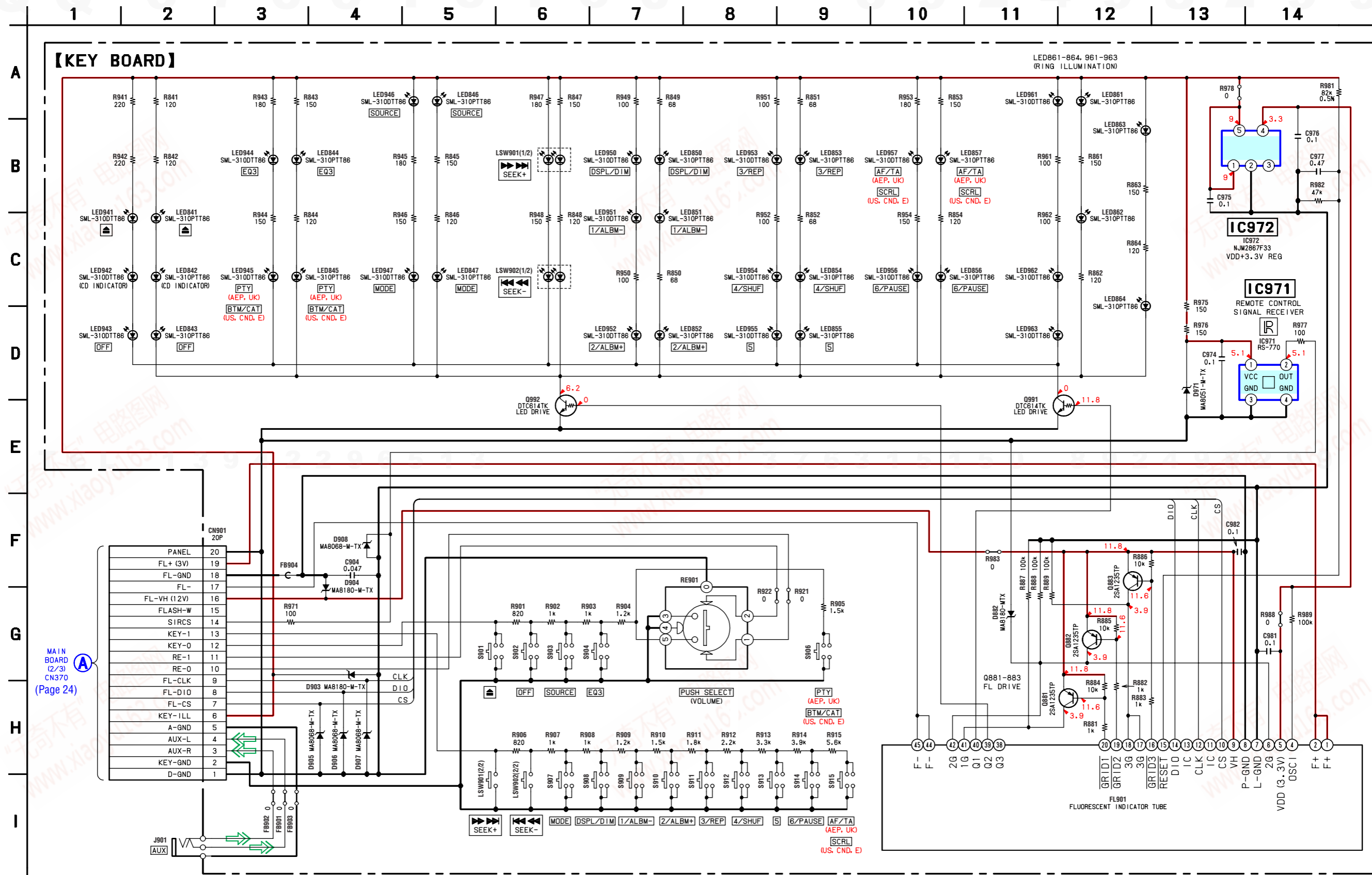
4-7. PRINTED WIRING BOARD — KEY SECTION —  : Uses unleaded solder.



• Semiconductor Location

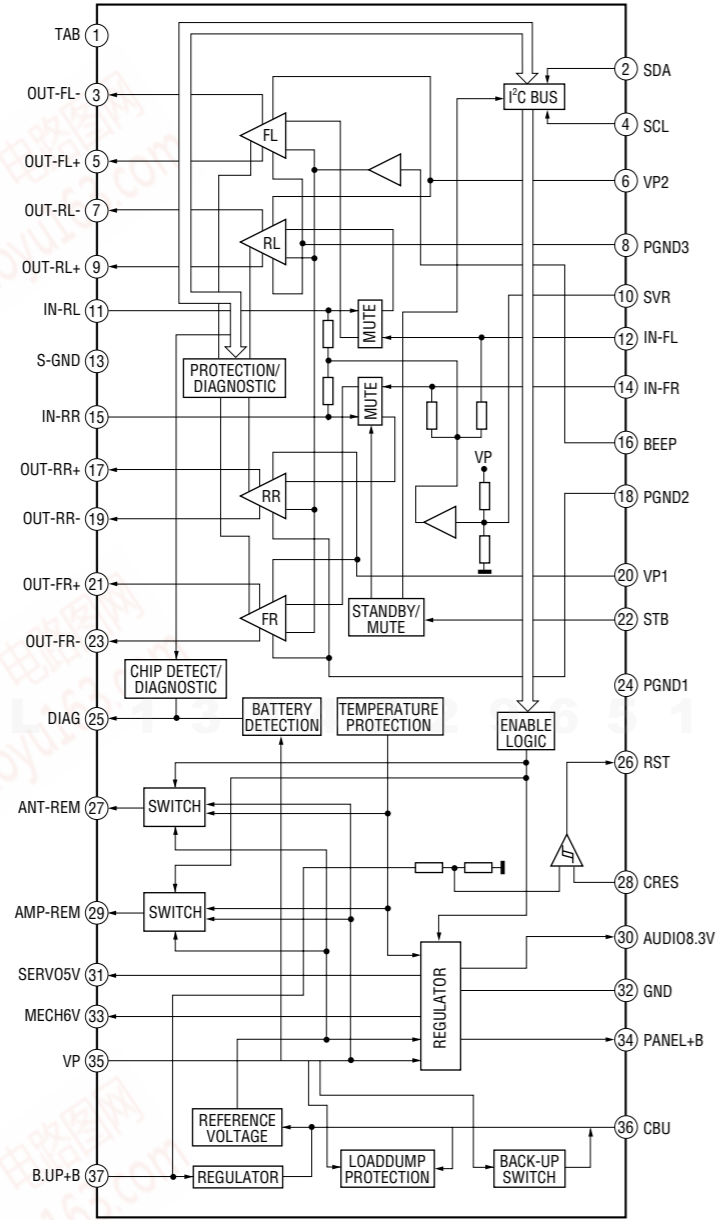
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D882	F-7	LED843	A-1	LED862	B-2	LED954	C-8
D903	F-10	LED844	B-2	LED863	B-3	LED955	C-9
D904	F-9	LED845	C-2	LED864	C-3	LED956	C-10
D905	F-10	LED846	B-4	LED941	A-12	LED957	C-10
D906	F-10	LED847	C-4	LED942	B-7	LED961	B-3
D907	F-10	LED850	C-5	LED943	A-1	LED962	C-3
D908	F-10	LED851	C-6	LED944	B-2	LED963	C-2
D971	E-4	LED852	C-6	LED945	C-2		
		LED853	C-7	LED946	B-4		
IC971	C-4	LED854	C-8	LED947	C-4	Q881	F-8
IC972	F-10	LED855	C-9	LED950	C-5	Q882	F-8
		LED856	C-10	LED951	C-5	Q883	F-9
LED841	A-12	LED857	C-11	LED952	C-6	Q991	F-5
LED842	B-7	LED861	B-3	LED953	C-7	Q992	F-6

4-8. SCHEMATIC DIAGRAM — KEY SECTION —

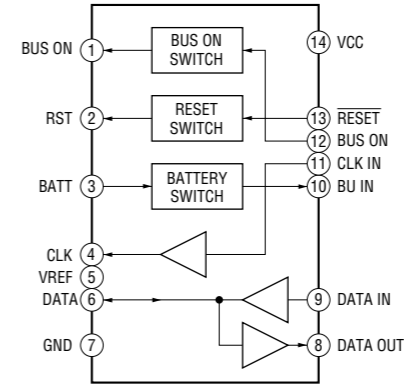


• IC BLOCK DIAGRAMS

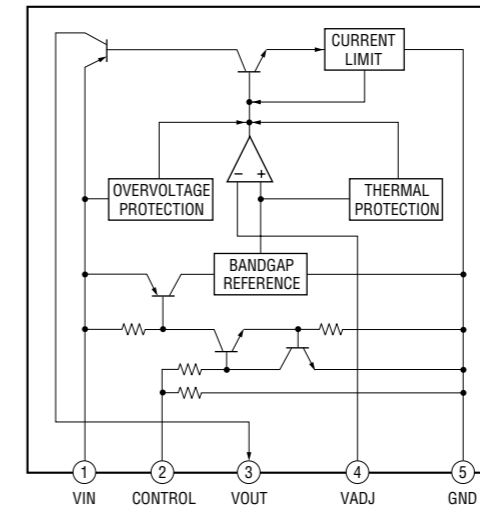
IC300 TDA8588AJ/N2/R1 (US, Canadian, E Model) (MAIN Board (1/3))  
IC300 TDA8588AJ/N2/R1/M5 (AEP, UK Model) (MAIN Board (1/3))



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



IC200 NJM2387ADL3 (MAIN Board (2/3))  
IC201 NJM2387ADL3 (MAIN Board (2/3))  
IC202 NJM2387ADL3 (MAIN Board (2/3))  
IC203 NJM2387ADL3 (MAIN Board (2/3))

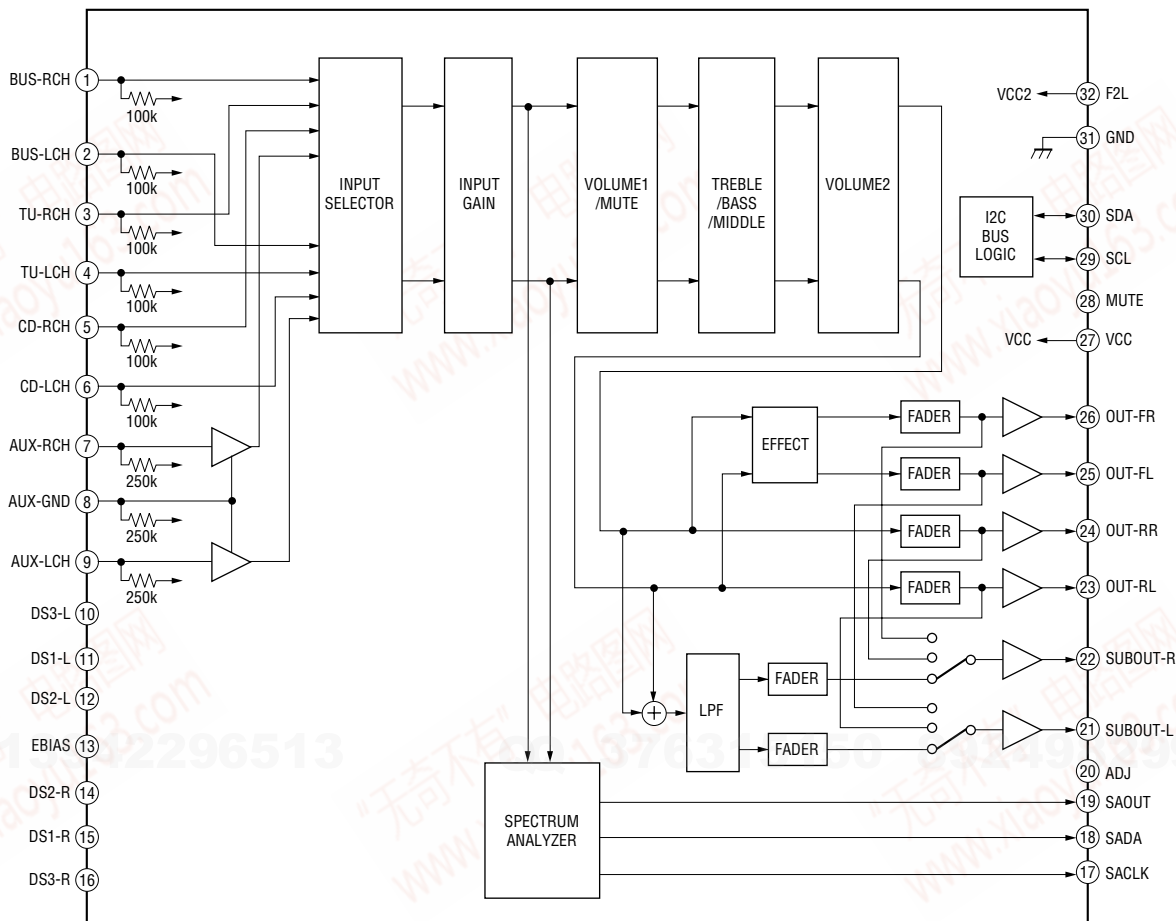


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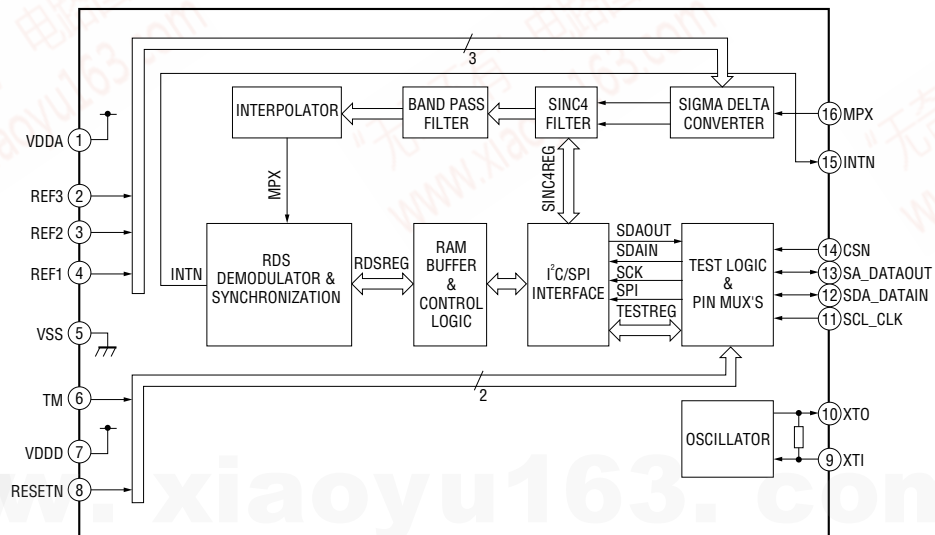
TEL 13942296513 QQ 376315150 892498299

QQ 376315150 892498299

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



IC50 TDA7333013TR (MAIN Board (2/3))



**CDX-GT315C****• IC PIN DESCRIPTION****IC501 MB90F045PF-G-9043-SPE1 (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-OUT SEL	I	Black-out with/without discrimination signal input "H": Black-out
5	BEEP	O	Beep signal output
6	NCO	O	Not used. (Open)
7	DIAG	I	Status signal input from power amplifier
8	AMPSTB	O	Standby signal output to power amplifier
9	VOLATT	O	Electronic volume attenuate control signal output
10	NCO	O	Not used. (Open)
11	VSS	—	Ground pin
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	AEP, UK model: Noise mask signal output US, Canadian, E model: Not used.
14	ILLUMI SEL	I	Illumination voltage setting signal input
15	COL SEL	I	Two colors change setting signal input
16 to 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	AEP, UK model: RDS (Radio Data System) on signal output Tuner on: "L" US, Canadian, E model: Not used.
27	FL CS	O	Fluorescent indicator tube chip select signal output
28	FL SO	O	Fluorescent indicator tube serial data signal output
29	FL SCK	O	Fluorescent indicator tube serial clock signal output
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	AEP, UK model: Noise detect signal input US, Canadian, E model: Not used.
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
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	AEP, UK model: Tuner mute zero cross detect signal input US, Canadian, E model: Not used.

Pin No.	Pin Name	I/O	Pin Description
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)
56	DAVN	I	AEP, UK model: RDS (Radio Data System) data block synchronized detect signal input US, Canadian, E model: Not used.
57	NCO	O	Not used. (Open)
58	UNISI	I	SONY bus data signal input
59	UNISO	O	SONY bus data signal output
60	UNI SCK	O	SONY bus clock signal output
61	Z MUTE	I	Mute signal input
62	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
72 to 76	NCO	O	Not used. (Open)
77	RESET	I	CPU reset signal input
78	NCO	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	FL ON	O	Fluorescent indicator tube power on signal output
88	SYSRST	O	System reset signal output
89, 90	NCO	O	Not used. (Open)
91	CDON	I	CD mechanism servo power supply control request signal input
92	CDMON	I	CD mechanism deck power supply control request signal input
93 to 95	NCO	O	Not used. (Open)
96	BUSON	O	Bus on signal output
97	TESTIN	I	Test mode detect signal input
98	TELATT	I	AEP, UK model: Telephone attenuate detect signal input US, Canadian, E model: Not used.
99	ACCIN	I	Accessory power supply detect signal input
100	ATT	O	Audio mute control signal output

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SECTION 5  
EXPLODED VIEWS

NOTE:

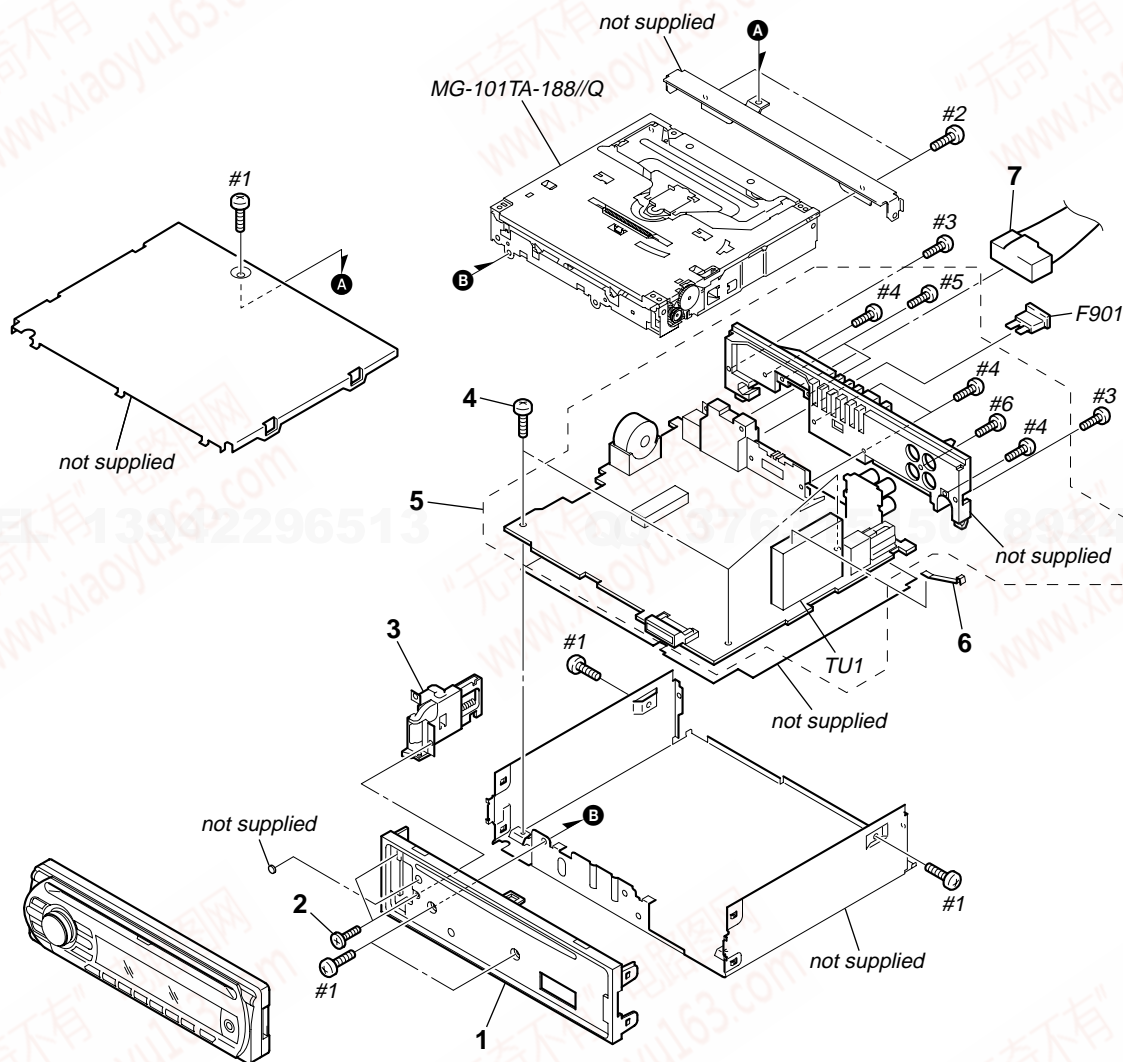
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation  
CND : Canadian model

- -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  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-2148-784-1	PANEL (FL) ASSY, SUB		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
2	3-042-244-11	SCREW (T)		TU1	A-3220-960-B	TUNER UNIT (TUX-032) (E)	
3	X-2108-670-1	LOCK ASSY (S)		TU1	A-3220-961-B	TUNER UNIT (TUX-032) (EXCEPT E)	
4	2-050-124-01	SCREW +BTT 2.6X5		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	A-1212-294-A	MAIN BOARD, COMPLETE (US,CND)		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
5	A-1212-331-A	MAIN BOARD, COMPLETE (AEP,UK)		#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
5	A-1212-373-A	MAIN BOARD, COMPLETE (E)		#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
6	2-021-848-01	SHEET (TU), GROUND		#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
7	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER)		#6	7-621-284-40	SCREW +P 2.6X10	
7	1-833-100-11	CORD (WITH CONNECTOR) (POWER)	(US,CND,E)				



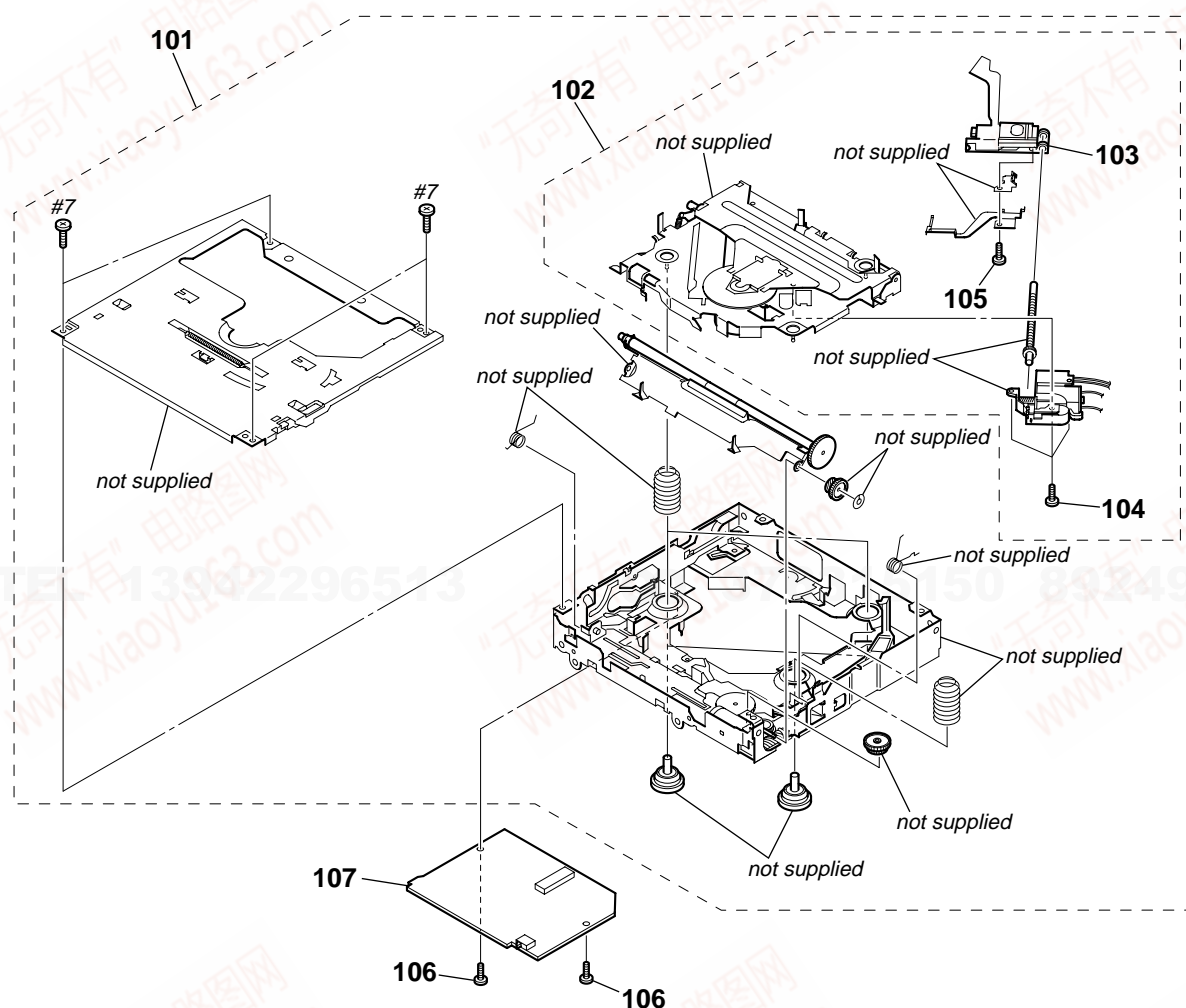


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## 5-3. CD MECHANISM SECTION (MG-101TA-188//Q)

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1177-168-A	MECHANICAL BLOCK ASSY		105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
102	A-1177-169-A	DAXEV//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
△ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1177-201-A	SERVO BOARD, COMPLETE	
104	2-626-869-01	SCREW (M2X3), SERRATION		#7	7-627-000-08	SCREW, PRECISION +P 1.7X2.2 TYPE3	

## SECTION 6 ELECTRICAL PARTS LIST

KEY

**NOTE:**

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

- 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 :  $\mu$ , for example:  
uA. :  $\mu$ A.    uPA. :  $\mu$ PA.  
uPB. :  $\mu$ PB.    uPC. :  $\mu$ PC.    uPD. :  $\mu$ PD.
- CAPACITORS  
uF :  $\mu$ F
- COILS  
uH :  $\mu$ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****					
		< CAPACITOR >					
C904	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	LED845	8-719-078-21	LED SML-310PTT86 (PTY) (AEP,UK)	
C974	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	LED846	8-719-078-21	LED SML-310PTT86 (SOURCE)	
C975	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	LED847	8-719-078-21	LED SML-310PTT86 (MODE)	
C976	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	LED850	8-719-078-21	LED SML-310PTT86 (DSPL/DIM)	
C977	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	LED851	8-719-078-21	LED SML-310PTT86 (1/ALBM -)	
C981	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	LED852	8-719-078-21	LED SML-310PTT86 (2/ALBM +)	
C982	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	LED853	8-719-078-21	LED SML-310PTT86 (3/REP)	
		< CONNECTOR >		LED854	8-719-078-21	LED SML-310PTT86 (4/SHUF)	
CN901	1-820-619-11	PLUG, CONNECTOR 20P		LED855	8-719-078-21	LED SML-310PTT86 (5)	
		< DIODE >		LED856	8-719-078-21	LED SML-310PTT86 (6/PAUSE)	
D882	8-719-057-80	DIODE MA8180-M-TX		LED857	8-719-078-21	LED SML-310PTT86 (SCRL) (US,CND,E)	
D903	8-719-057-80	DIODE MA8180-M-TX		LED857	8-719-078-21	LED SML-310PTT86 (AF/TA) (AEP,UK)	
D904	8-719-057-80	DIODE MA8180-M-TX		LED861	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
D905	8-719-977-12	DIODE DTZ6.8B		LED862	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
D906	8-719-977-12	DIODE DTZ6.8B		LED863	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
D907	8-719-977-12	DIODE DTZ6.8B		LED864	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)	
D908	8-719-977-12	DIODE DTZ6.8B		LED941	8-719-053-08	LED SML-310DTT86 ( $\triangle$ )	
D971	8-719-420-90	DIODE MA8051-M		LED942	8-719-053-08	LED SML-310DTT86 (CD INDICATOR)	
		< FERRITE BEAD >		LED943	8-719-053-08	LED SML-310DTT86 (OFF)	
FB901	1-216-864-11	SHORT CHIP	0	LED944	8-719-053-08	LED SML-310DTT86 (EQ3)	
FB902	1-216-864-11	SHORT CHIP	0	LED945	8-719-053-08	LED SML-310DTT86 (BTM/CAT) (US,CND,E)	
FB903	1-216-295-11	SHORT CHIP	0	LED945	8-719-053-08	LED SML-310DTT86 (PTY) (AEP,UK)	
FB904	1-469-876-11	INDUCTOR, FERRITE BEAD		LED946	8-719-053-08	LED SML-310DTT86 (3/REP)	
		< FLUORESCENT INDICATOR TUBE >		LED947	8-719-053-08	LED SML-310DTT86 (4/SHUF)	
FL901	1-519-909-12	INDICATOR TUBE, FLUORESCENT		LED950	8-719-053-08	LED SML-310DTT86 (MODE)	
		< IC >		LED951	8-719-053-08	LED SML-310DTT86 (1/ALBM -)	
IC971	6-600-163-01	IC RS-770 (IR)		LED952	8-719-053-08	LED SML-310DTT86 (2/ALBM +)	
IC972	6-706-715-01	IC NJM2867F33(TE2)		LED953	8-719-053-08	LED SML-310DTT86 (3/REP)	
		< DIODE >		LED954	8-719-053-08	LED SML-310DTT86 (4/SHUF)	
LED841	8-719-078-21	LED SML-310PTT86 ( $\triangle$ )		LED955	8-719-053-08	LED SML-310DTT86 (5)	
LED842	8-719-078-21	LED SML-310PTT86 (CD INDICATOR)		LED956	8-719-053-08	LED SML-310DTT86 (6/PAUSE)	
LED843	8-719-078-21	LED SML-310PTT86 (OFF)		LED957	8-719-053-08	LED SML-310DTT86 (SCRL) (US,CND,E)	
LED844	8-719-078-21	LED SML-310PTT86 (EQ3)		LED957	8-719-053-08	LED SML-310DTT86 (AF/TA) (AEP,UK)	
LED845	8-719-078-21	LED SML-310PTT86 (BTM/CAT) (US,CND,E)		LED961	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATION)	
				LED962	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATION)	
				LED963	8-719-053-08	LED SML-310DTT86 (RING ILLUMINATION)	
						< SWITCH >	
				LSW901	1-786-808-12	SWITCH, TACTILE (WITH LED)	
							(▶▶▶▶ SEEK +)
				LSW902	1-786-808-12	SWITCH, TACTILE (WITH LED)	
							(◀◀◀◀ SEEK -)

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KEY MAIN

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q881	8-729-600-22	TRANSISTOR 2SA1235-F	
Q882	8-729-600-22	TRANSISTOR 2SA1235-F	
Q883	8-729-600-22	TRANSISTOR 2SA1235-F	
Q991	6-550-752-01	TRANSISTOR DTC614TKT146	
Q992	6-550-752-01	TRANSISTOR DTC614TKT146	
		< RESISTOR >	
R841	1-216-810-11	METAL CHIP 120	5% 1/10W
R842	1-216-810-11	METAL CHIP 120	5% 1/10W
R843	1-216-811-11	METAL CHIP 150	5% 1/10W
R844	1-216-810-11	METAL CHIP 120	5% 1/10W
R845	1-216-811-11	METAL CHIP 150	5% 1/10W
R846	1-216-810-11	METAL CHIP 120	5% 1/10W
R847	1-216-811-11	METAL CHIP 150	5% 1/10W
R848	1-216-810-11	METAL CHIP 120	5% 1/10W
R849	1-216-807-11	METAL CHIP 68	5% 1/10W
R850	1-216-807-11	METAL CHIP 68	5% 1/10W
R851	1-216-807-11	METAL CHIP 68	5% 1/10W
R852	1-216-807-11	METAL CHIP 68	5% 1/10W
R853	1-216-811-11	METAL CHIP 150	5% 1/10W
R854	1-216-810-11	METAL CHIP 120	5% 1/10W
R861	1-216-811-11	METAL CHIP 150	5% 1/10W
R862	1-216-810-11	METAL CHIP 120	5% 1/10W
R863	1-216-811-11	METAL CHIP 150	5% 1/10W
R864	1-216-810-11	METAL CHIP 120	5% 1/10W
R881	1-216-821-11	METAL CHIP 1K	5% 1/10W
R882	1-216-821-11	METAL CHIP 1K	5% 1/10W
R883	1-216-821-11	METAL CHIP 1K	5% 1/10W
R884	1-216-833-11	METAL CHIP 10K	5% 1/10W
R885	1-216-833-11	METAL CHIP 10K	5% 1/10W
R886	1-216-833-11	METAL CHIP 10K	5% 1/10W
R887	1-216-845-11	METAL CHIP 100K	5% 1/10W
R888	1-216-845-11	METAL CHIP 100K	5% 1/10W
R889	1-216-845-11	METAL CHIP 100K	5% 1/10W
R901	1-216-820-11	METAL CHIP 820	5% 1/10W
R902	1-216-821-11	METAL CHIP 1K	5% 1/10W
R903	1-216-821-11	METAL CHIP 1K	5% 1/10W
R904	1-216-822-11	METAL CHIP 1.2K	5% 1/10W
R905	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
R906	1-216-820-11	METAL CHIP 820	5% 1/10W
R907	1-216-821-11	METAL CHIP 1K	5% 1/10W
R908	1-216-821-11	METAL CHIP 1K	5% 1/10W
R909	1-216-822-11	METAL CHIP 1.2K	5% 1/10W
R910	1-216-823-11	METAL CHIP 1.5K	5% 1/10W
R911	1-216-824-11	METAL CHIP 1.8K	5% 1/10W
R912	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R913	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
R914	1-216-828-11	METAL CHIP 3.9K	5% 1/10W
R915	1-216-830-11	METAL CHIP 5.6K	5% 1/10W
R921	1-216-295-11	SHORT CHIP 0	
R922	1-216-295-11	SHORT CHIP 0	
R941	1-216-813-11	METAL CHIP 220	5% 1/10W
R942	1-216-813-11	METAL CHIP 220	5% 1/10W
R943	1-216-812-11	METAL CHIP 180	5% 1/10W
R944	1-216-811-11	METAL CHIP 150	5% 1/10W
R945	1-216-812-11	METAL CHIP 180	5% 1/10W
R946	1-216-811-11	METAL CHIP 150	5% 1/10W

Ref. No.	Part No.	Description	Remark
R947	1-216-812-11	METAL CHIP 180	5% 1/10W
R948	1-216-811-11	METAL CHIP 150	5% 1/10W
R949	1-216-809-11	METAL CHIP 100	5% 1/10W
R950	1-216-809-11	METAL CHIP 100	5% 1/10W
R951	1-216-809-11	METAL CHIP 100	5% 1/10W
R952	1-216-809-11	METAL CHIP 100	5% 1/10W
R953	1-216-812-11	METAL CHIP 180	5% 1/10W
R954	1-216-811-11	METAL CHIP 150	5% 1/10W
R961	1-216-809-11	METAL CHIP 100	5% 1/10W
R962	1-216-809-11	METAL CHIP 100	5% 1/10W
R971	1-216-809-11	METAL CHIP 100	5% 1/10W
R975	1-216-811-11	METAL CHIP 150	5% 1/10W
R976	1-216-811-11	METAL CHIP 150	5% 1/10W
R977	1-216-809-11	METAL CHIP 100	5% 1/10W
R978	1-216-864-11	SHORT CHIP 0	
R981	1-218-893-11	METAL CHIP 82K	0.5% 1/10W
R982	1-216-841-11	METAL CHIP 47K	5% 1/10W
R983	1-216-864-11	SHORT CHIP 0	
R988	1-216-864-11	SHORT CHIP 0	
R989	1-216-845-11	METAL CHIP 100K	5% 1/10W
		< ROTARY ENCODER >	
RE901	1-479-481-13	ENCODER, ROTARY (PUSH SELECT/VOLUME)	
		< SWITCH >	
S901	1-786-653-21	SWITCH, TACTILE (▲)	
S902	1-786-653-21	SWITCH, TACTILE (OFF)	
S903	1-786-653-21	SWITCH, TACTILE (SOURCE)	
S904	1-786-653-21	SWITCH, TACTILE (EQ3)	
S906	1-786-653-21	SWITCH, TACTILE (BTM/CAT) (US,CND,E)	
S906	1-786-653-21	SWITCH, TACTILE (PTY) (AEP,UK)	
S907	1-786-653-21	SWITCH, TACTILE (MODE)	
S908	1-786-653-21	SWITCH, TACTILE (DSPL/DIM)	
S909	1-786-653-21	SWITCH, TACTILE (1/ALBM -)	
S910	1-786-653-21	SWITCH, TACTILE (2/ALBM +)	
S911	1-786-653-21	SWITCH, TACTILE (3/REP)	
S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)	
S913	1-786-653-21	SWITCH, TACTILE (5)	
S914	1-786-653-21	SWITCH, TACTILE (6/PAUSE)	
S915	1-786-653-21	SWITCH, TACTILE (SCRL) (US,CND,E)	
S915	1-786-653-21	SWITCH, TACTILE (AF/TA) (AEP,UK)	
*****			
	A-1212-294-A	MAIN BOARD, COMPLETE (US,CND)	
	A-1212-331-A	MAIN BOARD, COMPLETE (AEP,UK)	
	A-1212-373-A	MAIN BOARD, COMPLETE (E)	
*****			
	7-621-284-40	SCREW +P 2.6X10	
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
	7-685-794-09	SCREW +PTT 2.6X10 (S)	
		< CAPACITOR >	
C1	1-126-963-11	ELECT 4.7uF	20% 50V (AEP,UK)
C2	1-126-947-11	ELECT 47uF	20% 35V
C3	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C5	1-126-947-11	ELECT 47uF	20% 35V
C6	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C7	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C361	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V
C8	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C362	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V
C15	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C363	1-126-160-11	ELECT	1uF 20% 50V
			(US,CND,E)	C364	1-126-160-11	ELECT	1uF 20% 50V
C50	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C365	1-126-960-11	ELECT	1uF 20% 50V
			(AEP,UK)	C366	1-126-960-11	ELECT	1uF 20% 50V
C51	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C401	1-124-234-00	ELECT	22uF 20% 16V
			(AEP,UK)	C402	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C52	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C403	1-124-584-00	ELECT	100uF 20% 10V
			(AEP,UK)	C405	1-124-234-00	ELECT	22uF 20% 16V
C53	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C409	1-124-261-00	ELECT	10uF 20% 50V
			(AEP,UK)	C412	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C54	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C413	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
			(AEP,UK)	C414	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C55	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C415	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
			(AEP,UK)	C417	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C56	1-164-237-11	CERAMIC CHIP	16PF 5% 50V	C418	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
			(AEP,UK)	C419	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
C57	1-164-237-11	CERAMIC CHIP	16PF 5% 50V	C421	1-126-964-11	ELECT	10uF 20% 50V
			(AEP,UK)	C423	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C58	1-162-959-11	CERAMIC CHIP	330PF 5% 50V				
			(AEP,UK)	C424	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C60	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C426	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
			(AEP,UK)	C431	1-124-261-00	ELECT	10uF 20% 50V
C61	1-126-947-11	ELECT	47uF 20% 35V	C432	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
			(AEP,UK)	C434	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C151	1-126-960-11	ELECT	1uF 20% 50V	C441	1-126-964-11	ELECT	10uF 20% 50V
C152	1-126-960-11	ELECT	1uF 20% 50V	C443	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C153	1-126-961-11	ELECT	2.2uF 20% 50V	C444	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C154	1-163-017-00	CERAMIC CHIP	0.0047uF 10% 50V	C445	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C155	1-163-017-00	CERAMIC CHIP	0.0047uF 10% 50V	C451	1-126-964-11	ELECT	10uF 20% 50V
C200	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C452	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C201	1-124-234-00	ELECT	22uF 20% 16V	C454	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C202	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C461	1-126-964-11	ELECT	10uF 20% 50V
C203	1-126-965-11	ELECT	22uF 20% 50V	C462	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C204	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C463	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C205	1-126-965-11	ELECT	22uF 20% 50V	C471	1-126-964-11	ELECT	10uF 20% 50V
C206	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V	C472	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C207	1-126-965-11	ELECT	22uF 20% 50V	C473	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C301	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C484	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C302	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C485	1-126-933-11	ELECT	100uF 20% 16V
C303	1-128-551-11	ELECT	22uF 20% 63V	C486	1-126-964-11	ELECT	10uF 20% 50V
C304	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C491	1-124-589-11	ELECT	47uF 20% 16V
C305	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C501	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C306	1-124-261-00	ELECT	10uF 20% 50V	C502	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C307	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C504	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C308	1-124-261-00	ELECT	10uF 20% 50V	C507	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
C309	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C508	1-162-917-11	CERAMIC CHIP	15PF 5% 50V
C312	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C509	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C313	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C510	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C314	1-124-261-00	ELECT	10uF 20% 50V	C512	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C315	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C513	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C316	1-124-261-00	ELECT	10uF 20% 50V	C514	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C317	1-124-257-00	ELECT	2.2uF 20% 50V	C519	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C318	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C600	1-126-935-11	ELECT	470uF 20% 16V
C319	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V	C601	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C320	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C622	1-126-924-11	ELECT	330uF 20% 10V
C325	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V	C623	1-126-916-11	ELECT	1000uF 20% 6.3V
C329	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C681	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C330	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V				

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Ref. No.	Part No.	Description	Remark
C682	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C683	1-124-584-00	ELECT 100uF 20%	10V
C701	1-131-868-81	ELECT 3300uF 20%	16V
C702	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C703	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C704	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C705	1-115-340-11	CERAMIC CHIP 0.22uF 10%	25V
C997	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C998	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C999	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V (US,CND)

< CONNECTOR >

CN300	1-774-701-21	PIN, CONNECTOR 16P
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P
CN370	1-820-622-11	SOCKET, CONNECTOR 20P
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)

< DIODE >

D2	8-719-977-03	DIODE DTZ5.6B
D101	8-719-977-12	DIODE DTZ6.8B
D103	8-719-977-12	DIODE DTZ6.8B
D104	8-719-977-12	DIODE DTZ6.8B
D105	8-719-977-12	DIODE DTZ6.8B
D106	8-719-057-80	DIODE MA8180-M-TX
D108	8-719-977-12	DIODE DTZ6.8B
D109	8-719-977-12	DIODE DTZ6.8B
D110	8-719-977-12	DIODE DTZ6.8B
D111	8-719-977-12	DIODE DTZ6.8B
D112	8-719-977-12	DIODE DTZ6.8B
D113	8-719-977-12	DIODE DTZ6.8B
D153	8-719-977-12	DIODE DTZ6.8B
D200	6-500-522-01	DIODE 10EDB40-TA1B2
D201	6-500-522-01	DIODE 10EDB40-TA1B2
D202	6-500-522-01	DIODE 10EDB40-TA1B2
D203	6-500-522-01	DIODE 10EDB40-TA1B2
D204	6-500-522-01	DIODE 10EDB40-TA1B2
D205	6-500-522-01	DIODE 10EDB40-TA1B2
D206	6-500-522-01	DIODE 10EDB40-TA1B2
D207	6-500-522-01	DIODE 10EDB40-TA1B2
D301	6-500-522-01	DIODE 10EDB40-TA1B2
D302	6-500-522-01	DIODE 10EDB40-TA1B2
D303	6-500-522-01	DIODE 10EDB40-TA1B2
D304	6-500-522-01	DIODE 10EDB40-TA1B2
D305	6-500-522-01	DIODE 10EDB40-TA1B2
D306	6-500-522-01	DIODE 10EDB40-TA1B2
D307	6-500-522-01	DIODE 10EDB40-TA1B2
D308	6-500-522-01	DIODE 10EDB40-TA1B2
D309	6-500-522-01	DIODE 10EDB40-TA1B2
D310	6-500-522-01	DIODE 10EDB40-TA1B2
D311	6-500-522-01	DIODE 10EDB40-TA1B2
D312	6-500-522-01	DIODE 10EDB40-TA1B2
D353	6-501-013-01	DIODE BAT54ALT1G
D491	6-501-193-01	DIODE 1SS355WTE-17 (US,CND,E)
D491	8-719-988-61	DIODE 1SS355TE-17 (AEP,UK)
D493	6-501-051-01	DIODE BAT54CLT1G
D501	6-500-334-01	DIODE MC2836-T112-1
D502	8-719-060-48	DIODE RB751V-40TE-17
D602	8-719-057-80	DIODE MA8180-M-TX

Ref. No.	Part No.	Description	Remark
D603	8-719-422-64	DIODE MA8062-M	
D604	8-719-057-80	DIODE MA8180-M-TX	
D605	8-719-057-80	DIODE MA8180-M-TX	
D606	8-719-072-70	DIODE MA2ZD14001SX	
D607	6-501-571-01	DIODE 1N5404-C311-3	
D609	6-501-051-01	DIODE BAT54CLT1G	
D702	8-719-057-80	DIODE MA8180-M-TX	
D703	8-719-977-12	DIODE DTZ6.8B	
D704	8-719-057-80	DIODE MA8180-M-TX (AEP,UK)	
D901	8-719-057-80	DIODE MA8180-M-TX	
D998	8-719-057-80	DIODE MA8180-M-TX	
D999	8-719-057-80	DIODE MA8180-M-TX	

< IC >

IC50	6-803-747-01	IC TDA7333013TR (AEP,UK)
IC200	6-709-213-01	IC NJM2387ADL3(TE2)
IC201	6-709-213-01	IC NJM2387ADL3(TE2)
IC202	6-709-213-01	IC NJM2387ADL3(TE2)
IC203	6-709-213-01	IC NJM2387ADL3(TE2)
IC300	6-705-359-02	IC TDA8588AJ/N2/R1 (US,CND,E)
IC300	6-705-359-11	IC TDA8588AJ/N2/R1/M5 (AEP,UK)
IC401	6-710-065-01	IC BD3442FS-E2
IC501	6-807-262-01	IC MB90F045PF-G-9043-SPE1
IC601	6-703-884-01	IC BA8271F-E2
IC602	8-759-659-13	IC PST3428UL
IC681	6-705-373-01	IC MM3123DPLE

< JACK >

J1	1-815-185-13	JACK (ANTENNA)
J370	1-566-822-41	JACK (REMOTE IN)
J652	1-774-699-12	JACK, PIN 4P (BUS AUDIO IN, AUDIO OUT REAR)

< JUMPER RESISTOR >

JC1	1-216-296-11	SHORT CHIP	0
JC2	1-216-864-11	SHORT CHIP	0
JC3	1-216-296-11	SHORT CHIP	0
JC4	1-216-296-11	SHORT CHIP	0
JC5	1-216-296-11	SHORT CHIP	0
JC6	1-216-296-11	SHORT CHIP	0
JC7	1-216-296-11	SHORT CHIP	0
JC8	1-216-296-11	SHORT CHIP	0
JC9	1-216-864-11	SHORT CHIP	0
JC10	1-216-296-11	SHORT CHIP	0
JC11	1-216-864-11	SHORT CHIP	0
JC12	1-216-296-11	SHORT CHIP	0
JC13	1-216-864-11	SHORT CHIP	0
JC14	1-216-296-11	SHORT CHIP	0
JC15	1-216-296-11	SHORT CHIP	0
JC16	1-216-296-11	SHORT CHIP	0
JC17	1-216-864-11	SHORT CHIP	0
JC18	1-216-864-11	SHORT CHIP	0
JC19	1-216-296-11	SHORT CHIP	0
JC20	1-216-296-11	SHORT CHIP	0
JC21	1-216-296-11	SHORT CHIP	0
JC22	1-216-296-11	SHORT CHIP	0
JC23	1-216-296-11	SHORT CHIP	0
JC24	1-216-864-11	SHORT CHIP	0

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JC25	1-216-296-11	SHORT CHIP	0	Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (AEP,UK)	
JC26	1-216-296-11	SHORT CHIP	0	Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC27	1-216-296-11	SHORT CHIP	0			< RESISTOR >	
JC28	1-216-864-11	SHORT CHIP	0				
JC29	1-216-296-11	SHORT CHIP	0	R1	1-216-809-11	METAL CHIP 100 5%	1/10W (AEP,UK)
JC30	1-216-296-11	SHORT CHIP	0	R2	1-216-839-11	METAL CHIP 33K 5%	1/10W
JC31	1-216-296-11	SHORT CHIP	0	R3	1-216-843-11	METAL CHIP 68K 5%	1/10W
JC32	1-216-296-11	SHORT CHIP	0	R4	1-216-839-11	METAL CHIP 33K 5%	1/10W
JC33	1-216-296-11	SHORT CHIP	0	R5	1-216-843-11	METAL CHIP 68K 5%	1/10W
JC34	1-216-864-11	SHORT CHIP	0	R6	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC35	1-216-864-11	SHORT CHIP	0	R7	1-414-595-11	INDUCTOR, FERRITE BEAD	
JC36	1-216-864-11	SHORT CHIP	0	R8	1-216-839-11	METAL CHIP 33K 5%	1/10W (AEP,UK)
JC37	1-216-296-11	SHORT CHIP	0	R9	1-216-843-11	METAL CHIP 68K 5%	1/10W
JC38	1-216-296-11	SHORT CHIP	0 (EXCEPT E)	R10	1-216-821-11	METAL CHIP 1K 5%	1/10W
JC40	1-216-864-11	SHORT CHIP	0	R12	1-216-811-11	METAL CHIP 150 5%	1/10W
JC41	1-216-296-11	SHORT CHIP	0	R13	1-216-811-11	METAL CHIP 150 5%	1/10W
JC42	1-216-296-11	SHORT CHIP	0	R15	1-216-864-11	SHORT CHIP 0 (AEP,UK)	
		< COIL >		R52	1-216-845-11	METAL CHIP 100K 5%	1/10W (AEP,UK)
L1	1-216-295-11	SHORT CHIP	0	R53	1-216-797-11	METAL CHIP 10 5%	1/10W (AEP,UK)
L2	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)					
L3	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)		R54	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)	
L4	1-469-844-11	INDUCTOR	2.2uH	R55	1-216-797-11	METAL CHIP 10 5%	1/10W (AEP,UK)
L5	1-216-864-11	SHORT CHIP	0 (US,CND,E)	R57	1-216-833-11	METAL CHIP 10K 5%	1/10W (AEP,UK)
L5	1-414-595-11	INDUCTOR, FERRITE BEAD (AEP,UK)		R58	1-216-821-11	METAL CHIP 1K 5%	1/10W (AEP,UK)
L50	1-469-844-11	INDUCTOR	2.2uH (AEP,UK)	R151	1-216-817-11	METAL CHIP 470 5%	1/10W
L151	1-216-295-11	SHORT CHIP	0	R152	1-216-817-11	METAL CHIP 470 5%	1/10W
L300	1-456-617-11	COIL, CHOKE		R153	1-216-834-11	METAL CHIP 12K 5%	1/10W
L370	1-469-876-11	INDUCTOR, FERRITE BEAD		R154	1-216-834-11	METAL CHIP 12K 5%	1/10W
L401	1-216-864-11	SHORT CHIP	0	R155	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
L402	1-216-295-11	SHORT CHIP	0	R200	1-216-833-11	METAL CHIP 10K 5%	1/10W
L403	1-216-295-11	SHORT CHIP	0	R201	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
L405	1-216-864-11	SHORT CHIP	0	R202	1-216-845-11	METAL CHIP 100K 5%	1/10W
L406	1-500-245-11	INDUCTOR, FERRITE BEAD		R203	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
L407	1-216-864-11	SHORT CHIP	0	R204	1-216-821-11	METAL CHIP 1K 5%	1/10W
L409	1-469-844-11	INDUCTOR	2.2uH	R205	1-216-845-11	METAL CHIP 100K 5%	1/10W
L410	1-469-876-11	INDUCTOR, FERRITE BEAD		R206	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
L501	1-469-844-11	INDUCTOR	2.2uH	R207	1-216-821-11	METAL CHIP 1K 5%	1/10W
L901	1-216-295-11	SHORT CHIP	0	R208	1-218-344-11	METAL CHIP 7.5K 5%	1/10W
L902	1-469-844-11	INDUCTOR	2.2uH	R209	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< TRANSISTOR >		R210	1-216-812-11	METAL CHIP 180 5%	1/10W
Q1	8-729-027-43	TRANSISTOR	DTC114EKA-T146 (AEP,UK)	R211	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q3	6-551-431-01	TRANSISTOR	2SC6027T100-QR	R301	1-216-811-11	METAL CHIP 150 5%	1/10W
Q50	8-729-600-22	TRANSISTOR	2SA1235-F (AEP,UK)	R302	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q420	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R351	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q432	6-550-752-01	TRANSISTOR	DTC614TKT146	R355	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q440	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R356	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q452	6-550-752-01	TRANSISTOR	DTC614TKT146	R357	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q460	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R358	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q470	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R370	1-414-595-11	INDUCTOR, FERRITE BEAD	
Q491	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R371	1-414-595-11	INDUCTOR, FERRITE BEAD	
Q492	8-729-027-43	TRANSISTOR	DTC114EKA-T146	R401	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q600	8-729-047-76	TRANSISTOR	FMC2A-T148	R402	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R420	1-216-809-11	METAL CHIP 100 5%	1/10W
Q605	8-729-027-43	TRANSISTOR	DTC114EKA-T146				
Q664	8-729-027-23	TRANSISTOR	DTA114EKA-T146				

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MAIN

Ref. No.	Part No.	Description	Remark
R421	1-216-821-11	METAL CHIP 1K	5% 1/10W
R430	1-216-809-11	METAL CHIP 100	5% 1/10W
R431	1-216-809-11	METAL CHIP 100	5% 1/10W
R440	1-216-809-11	METAL CHIP 100	5% 1/10W
R442	1-216-821-11	METAL CHIP 1K	5% 1/10W
R447	1-216-833-11	METAL CHIP 10K	5% 1/10W
R448	1-216-833-11	METAL CHIP 10K	5% 1/10W
R449	1-216-833-11	METAL CHIP 10K	5% 1/10W
R450	1-216-833-11	METAL CHIP 10K	5% 1/10W
R451	1-216-809-11	METAL CHIP 100	5% 1/10W
R452	1-216-809-11	METAL CHIP 100	5% 1/10W
R460	1-216-809-11	METAL CHIP 100	5% 1/10W
R461	1-216-821-11	METAL CHIP 1K	5% 1/10W
R462	1-216-833-11	METAL CHIP 10K	5% 1/10W
R470	1-216-809-11	METAL CHIP 100	5% 1/10W
R471	1-216-821-11	METAL CHIP 1K	5% 1/10W
R472	1-216-833-11	METAL CHIP 10K	5% 1/10W
R481	1-216-801-11	METAL CHIP 22	5% 1/10W
R485	1-218-883-11	METAL CHIP 33K	0.5% 1/10W
R491	1-216-805-11	METAL CHIP 47	5% 1/10W
R502	1-216-809-11	METAL CHIP 100	5% 1/10W
R503	1-216-809-11	METAL CHIP 100	5% 1/10W
R504	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R505	1-218-871-11	METAL CHIP 10K	0.5% 1/10W
R507	1-216-845-11	METAL CHIP 100K	5% 1/10W (US,CND,E)
R509	1-216-809-11	METAL CHIP 100	5% 1/10W
R510	1-216-864-11	SHORT CHIP 0	
R511	1-216-809-11	METAL CHIP 100	5% 1/10W
R512	1-216-809-11	METAL CHIP 100	5% 1/10W
R517	1-216-841-11	METAL CHIP 47K	5% 1/10W
R519	1-216-845-11	METAL CHIP 100K	5% 1/10W
R520	1-216-809-11	METAL CHIP 100	5% 1/10W
R521	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R522	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
R523	1-216-809-11	METAL CHIP 100	5% 1/10W
R524	1-216-833-11	METAL CHIP 10K	5% 1/10W
R525	1-216-833-11	METAL CHIP 10K	5% 1/10W
R526	1-216-845-11	METAL CHIP 100K	5% 1/10W
R529	1-216-809-11	METAL CHIP 100	5% 1/10W
R531	1-216-845-11	METAL CHIP 100K	5% 1/10W
R532	1-216-845-11	METAL CHIP 100K	5% 1/10W
R533	1-216-845-11	METAL CHIP 100K	5% 1/10W
R534	1-216-833-11	METAL CHIP 10K	5% 1/10W
R537	1-216-845-11	METAL CHIP 100K	5% 1/10W (AEP,UK,E)
R538	1-216-845-11	METAL CHIP 100K	5% 1/10W (US,CND)
R540	1-216-845-11	METAL CHIP 100K	5% 1/10W
R544	1-216-809-11	METAL CHIP 100	5% 1/10W
R545	1-216-845-11	METAL CHIP 100K	5% 1/10W (E)
R546	1-216-845-11	METAL CHIP 100K	5% 1/10W (E)
R550	1-216-845-11	METAL CHIP 100K	5% 1/10W (E)
R551	1-216-845-11	METAL CHIP 100K	5% 1/10W (EXCEPT E)

Ref. No.	Part No.	Description	Remark
R552	1-216-845-11	METAL CHIP 100K	5% 1/10W (EXCEPT E)
R553	1-216-845-11	METAL CHIP 100K	5% 1/10W
R555	1-216-845-11	METAL CHIP 100K	5% 1/10W
R556	1-216-845-11	METAL CHIP 100K	5% 1/10W
R557	1-216-809-11	METAL CHIP 100	5% 1/10W
R558	1-216-833-11	METAL CHIP 10K	5% 1/10W
R559	1-216-845-11	METAL CHIP 100K	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
R564	1-216-845-11	METAL CHIP 100K	5% 1/10W (AEP,UK)
R565	1-216-845-11	METAL CHIP 100K	5% 1/10W
R566	1-216-845-11	METAL CHIP 100K	5% 1/10W (US,CND,E)
R567	1-216-845-11	METAL CHIP 100K	5% 1/10W
R568	1-216-849-11	METAL CHIP 220K	5% 1/10W
R570	1-216-809-11	METAL CHIP 100	5% 1/10W
R573	1-216-845-11	METAL CHIP 100K	5% 1/10W (AEP,UK)
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
R608	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R610	1-216-809-11	METAL CHIP 100	5% 1/10W
R611	1-216-864-11	SHORT CHIP 0	
R612	1-216-864-11	SHORT CHIP 0	
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 (AEP,UK)
R702	1-216-841-11	METAL CHIP 47K	5% 1/10W (AEP,UK)
R703	1-216-833-11	METAL CHIP 10K	5% 1/10W (AEP,UK)
R704	1-216-833-11	METAL CHIP 10K	5% 1/10W (AEP,UK)
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
< SWITCH >			
S103	1-786-826-11	SWITCH, TACTILE (RESET)	
S501	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)	
< THERMISTOR (POSITIVE) >			
TH400	1-803-350-21	THERMISTOR, POSITIVE	



Ref. No.	Part No.	Description	Remark
		< TUNER UNIT >	

TU1	A-3220-960-B	TUNER UNIT (TUX-032) (E)	
TU1	A-3220-961-B	TUNER UNIT (TUX-032) (EXCEPT E)	

< VIBRATOR >

X50	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz) (AEP,UK)	
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

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A-1177-201-A SERVO BOARD, COMPLETE

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MISCELLANEOUS

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71	-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK)	
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71	-833-100-11	CORD (WITH CONNECTOR) (POWER) (US,CND,E)	
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△ 103 X-2149-672-1 SERVICE ASSY, OP (DAX-25A)

F901 1-532-877-11 FUSE (BLADE TYPE) (AUTO FUSE) 10A

J901 1-820-624-11 JACK (SMALL TYPE) (VERTICAL) (AUX)

\*\*\*\*\*

ACCESSORIES

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1-479-077-13 REMOTE COMMANDER (RM-X151)

2-548-729-01 LID, BATTERY CASE (for RM-X151)

2-887-115-11 MANUAL, INSTRUCTION (ENGLISH,FRENCH)  
(US,CND)

2-887-115-21 MANUAL, INSTRUCTION (ENGLISH,GERMAN,  
FRENCH,ITALIAN,DUTCH)  
(AEP,UK)

2-887-115-31 MANUAL, INSTRUCTION (ENGLISH,SPANISH,  
SIMPLIFIED CHINESE) (E)

2-887-116-11 MANUAL, INSTRUCTION, INSTALL (ENGLISH,  
FRENCH) (US,CND)

2-887-116-21 MANUAL, INSTRUCTION, INSTALL (ENGLISH,  
GERMAN,FRENCH,ITALIAN,DUTCH)  
(AEP,UK)

2-887-116-31 MANUAL, INSTRUCTION, INSTALL (ENGLISH,  
SPANISH,SIMPLIFIED CHINESE) (E)

X-2149-228-2 CASE ASSY (for FRONT PANEL)

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

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151	X-3382-647-1	FRAME ASSY, FITTING	
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152	2-686-803-01	COLLAR	
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153	3-246-471-01	KEY (FRAME)	
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154	X-3381-154-1	SCREW ASSY (BS4), FITTING (E)	
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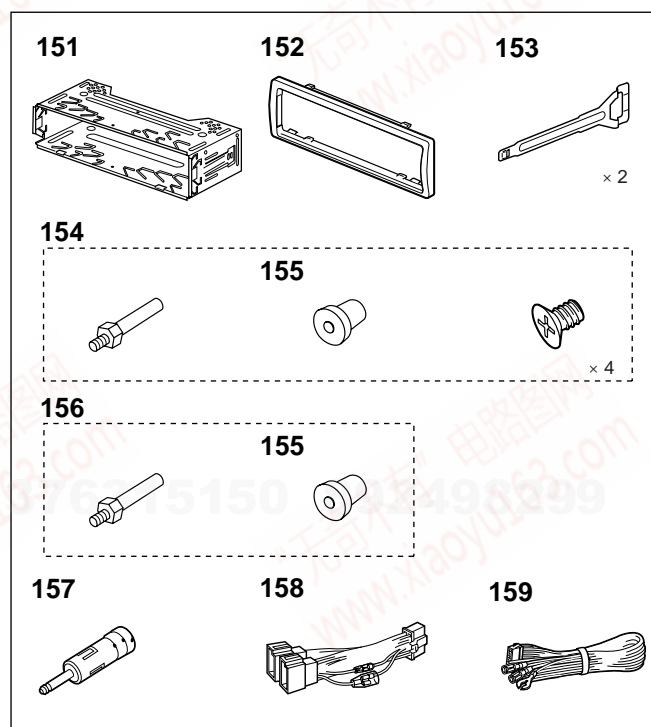
155	3-349-410-11	BUSHING (AEP,UK,E)	
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156	X-3382-926-1	SCREW ASSY (BS), FITTING (AEP,UK)	
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157	1-465-459-31	ADAPTOR, ANTENNA (AEP,UK)	
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158	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK)	
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159	1-833-100-11	CORD (WITH CONNECTOR) (POWER) (US,CND,E)	
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MEMO

QQ 376315150

892498299

TEL 13942296513 QQ 376315150 892498299

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# CDX-GT315C

**SONY**

## SERVICE MANUAL

Ver. 1.1 2007.03

US Model  
Canadian Model  
AEP Model  
UK Model  
E Model

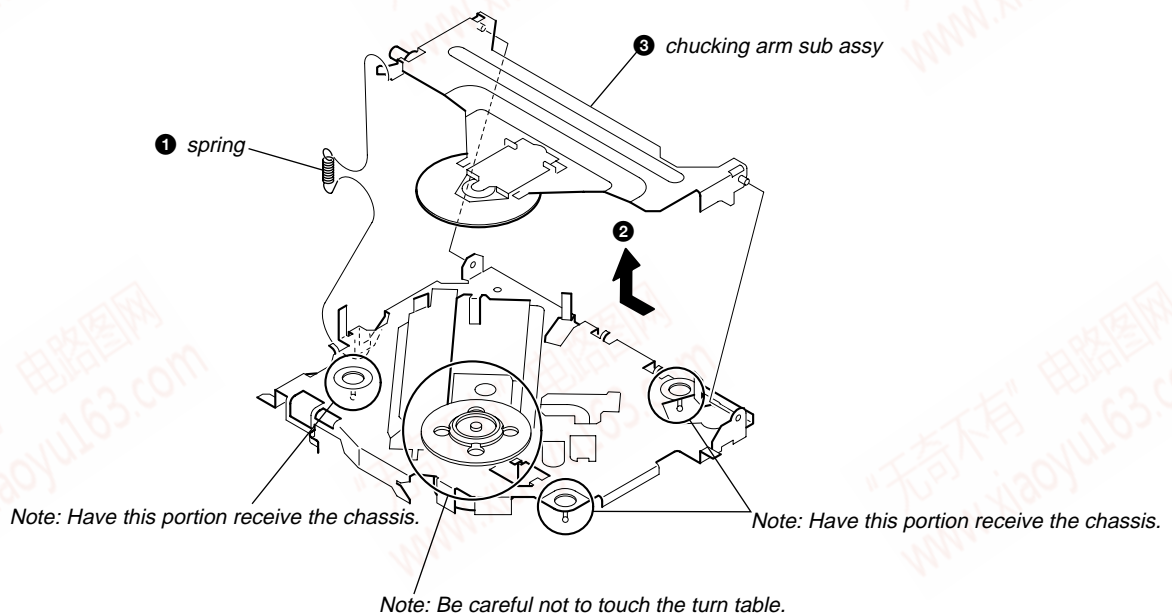
### SUPPLEMENT-1

File this supplement with the service manual.

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

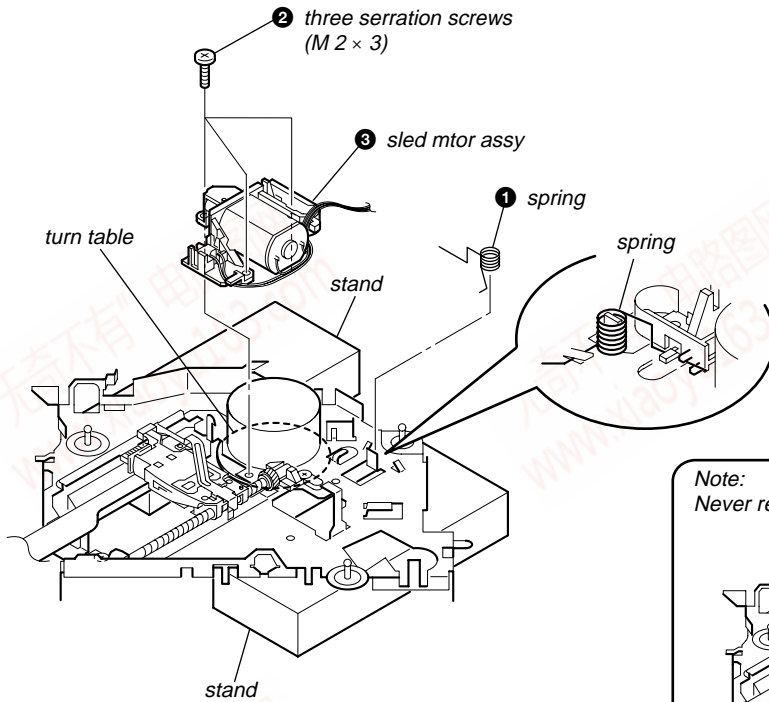
#### DISASSEMBLY

##### 1. CHUCKING ARM SUB ASSY



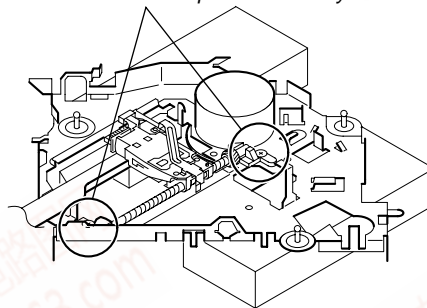
# CDX-GT315C

## 2. SLED MOTOR ASSY

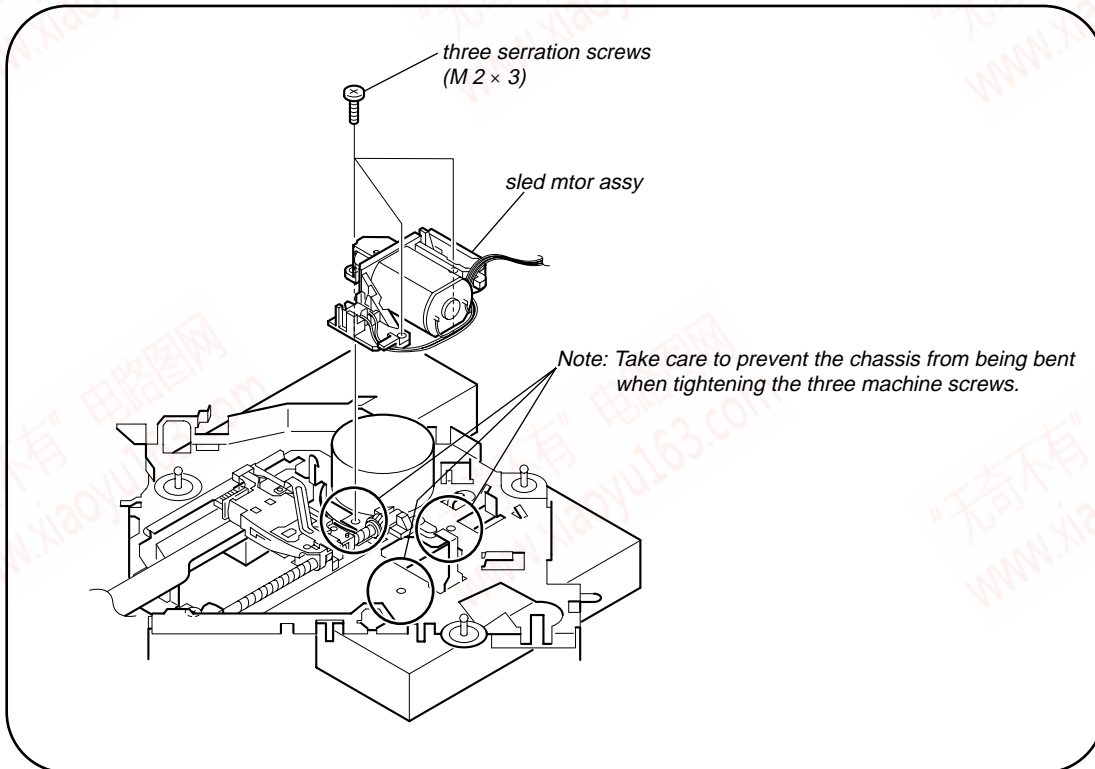


Note: Place the stand with care not to touch the turn table.

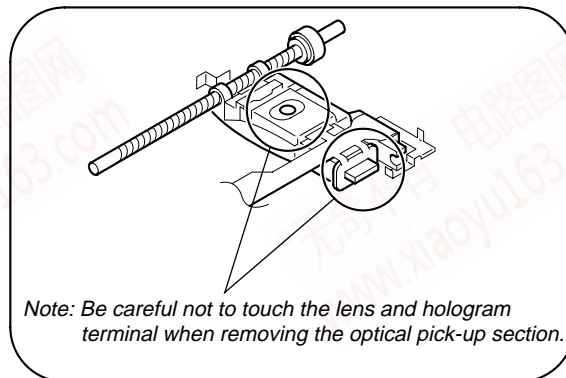
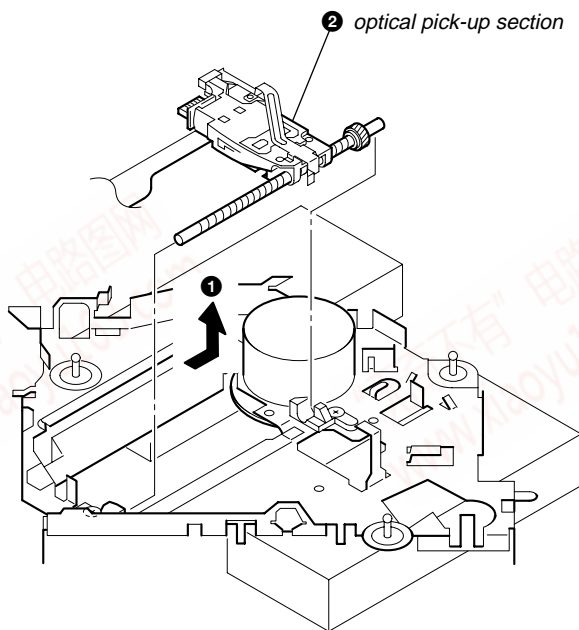
Note:  
Never remove these parts since they were adjusted.



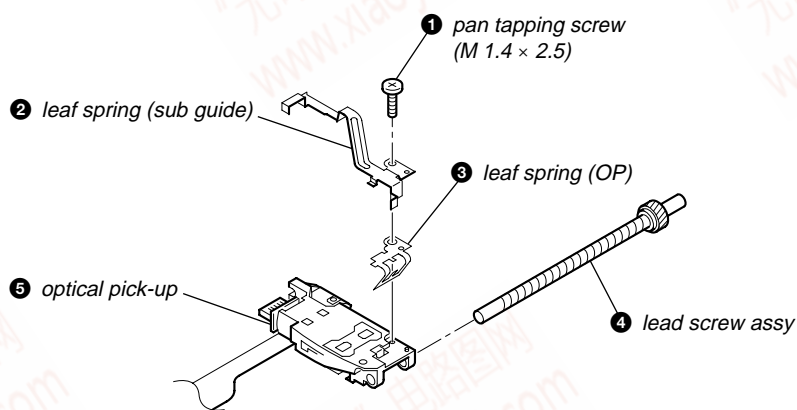
Note for Assembly



### 3. OPTICAL PICK-UP SECTION



### 4. OPTICAL PICK-UP



#### Notes for Assembly

