CDX-565MXRF

SERVICE MANUAL

Ver 1.1 2002.06

US Model
Canadian Model
E Model

Model Name Using Similar Mechanism	CDX-757MX
CD Drive Mechanism Type	MG-251B-137
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD changer (CDX-565MXRF)

System	Compact disc digital audio system
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission Duration	Continuous
Laser output power	Less than 44.6 µW*

* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.*

Transmitting frequency	88.3 MHz/88.5 MHz/ 88.7 MHz/88.9 MHz/ 89.1 MHz/89.3 MHz/ 89.5 MHz/89.7 MHz/ 89.9 MHz/(switchable)
Input/output terminals	Wired remote control (8 pin) RF signal (FM) output Power input (3 pin)
Current drain	900 mA (at playback) 900 mA (at disc loading/ejecting)
Operating temperature	–10°C to +55°C (14°F to 131°F)
Dimensions	Approx. 262 × 90 × 185 mm (10 3/8 × 3 5/8 × 7 3/8 in.) (w/h/d)
Mass	Approx. 2.1 kg (4 lb. 10 oz.)

Relay box

Input/output	Antenna input terminal Antenna output cord CD Changer input cord
Dimensions	40 × 40 × 27 mm (1 5/8 × 1 5/8 × 1 1/8 in.) (w/h/d)
Mass	140 g (5 oz.)

Wired remote (RM-X83RF) /Wireless remote (RM-X84RF)

Dimensions	Wired remote: Approx. 127.5 × 41.5 × 24 mm (5 1/8 × 1 11/16 × 31/32 in.) (w/h/d) Wireless remote: Approx. 52 × 8.5 × 90 mm (2 1/16 × 3/8 × 3 9/16 in.) (w/h/d)
Mass	Wired remote: Approx. 280 g (10 oz.) Wireless remote: Approx. 30 g (1 oz.)
Battery	Wireless remote: Lithium battery (CR2025)

Supplied accessories

Disc magazine (1)
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

COMPACT DISC CHANGER SYSTEM

9-873-927-02
2002F0500-1

Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY

SERVICING NOTES

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

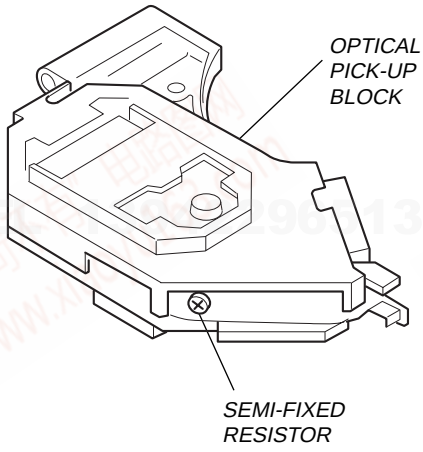
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter 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.

US/Canadian model:

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.



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

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

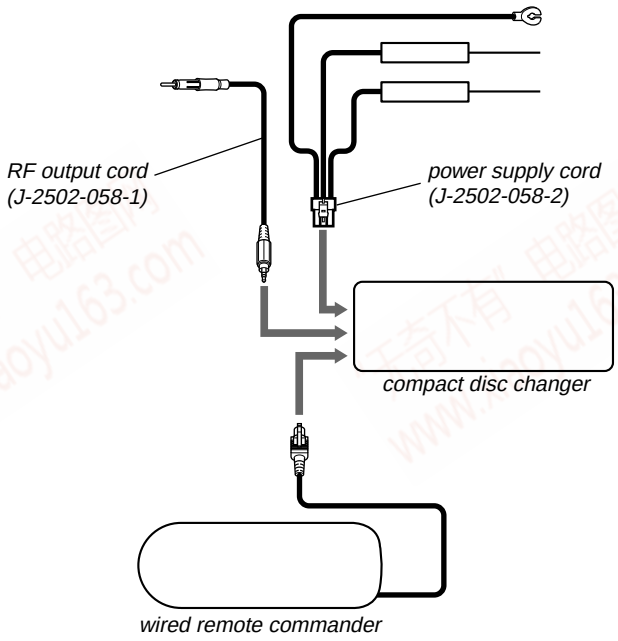
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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.

JIG ON REPAIRING

When repairing this set, connect the jig (cord) for RF output extract (Part No. J-2502-058-1) and power supply (Part No. J-2502-058-2) as the figure shown below.

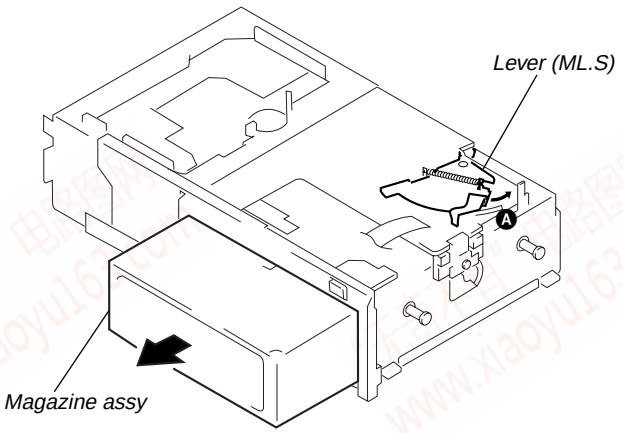


DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (LOWER. T) beforehand

1) Press the lever (ML.S) assy in the direction of arrow Ⓐ.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ 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.

TEST DISC

This set can playback a CD-R, CD-RW for audio use. When test this set, use the following test disc.
Test disc for CD-R: TCD-R082LMT (Part No.: J-2502-063-1)
Test disc for CD-RW: TCD-W082L (Part No.: J-2502-063-2)

Notes on CD-R discs

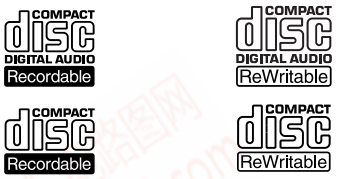
- You can play CD-Rs/CD-RWs (recordable CDs/rewritable CDs) on this unit (fig. H).
- Some CD-Rs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R that is not finalized*.
- A CD-R/CD-RW to which a session can be added can be played.

** A process necessary for a recorded CD-R disc to be played on the audio CD player.*

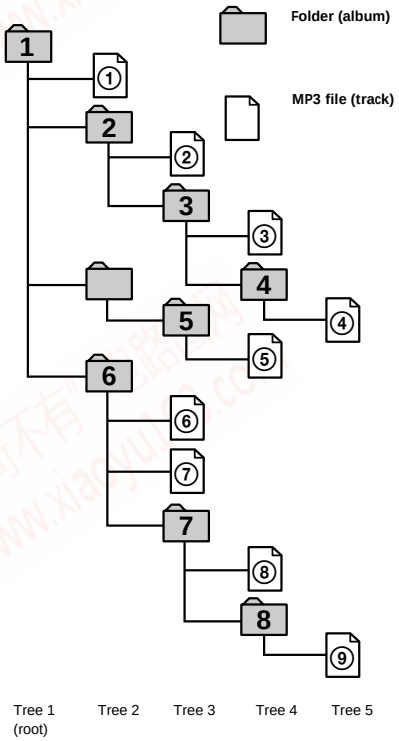
H

Audio CD

MP3 files



About MP3 files



MP3 (MPEG 1 Audio Layer-3) is a standard technology and format for compressing a sound sequence. The file is compressed to about 1/10 of its original size. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed.

Notes on discs

You can play MP3 files recorded on CD-ROMs, CD-Rs (recordable CDs), and CD-RWs (rewritable CDs). The disc must be in the ISO 9660*1 level 1 or level 2 format, or Joliet or Romeo in the expansion format. You can use a disc recorded in Multi Session*2.

*1 ISO 9660 Format

The most common international standard for the logical format of files and folders on a CD-ROM.
There are several specification levels. In Level 1, file names must be in the 8.3 format (no more than eight characters in the name, no more than three characters in the extension ".MP3") and in capital letters. Folder names can be no longer than eight characters. There can be no more than eight nested folder levels.
In level 2, file names can be up to 31 characters long (including the delimiter, the dot ".", and the extension ". MP3"). Each folder can have up to 8 trees.
For Joliet or Romeo in the expansion format, make sure of the contents of the writing software, etc.

*2 Multi Session

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.
CD-Extra: A format that contains audio tracks (audio CD data) in Session 1, and a data track in Session 2.
Mixed CD: A format that contains a data track and audio tracks (audio CD data) in a session.

Notes

- *If MP3 files and Audio data are mixed in a disc, the first identified file or data will be played back.*
- *With formats other than ISO 9660 level 1, folder names or file names may not be displayed correctly.*
- *When naming, be sure to add the file extension ".MP3" to the file name.*
- *If you put the extension ".MP3" to a file other than MP3, the unit cannot recognize the file properly and will generate random noise that could damage your speakers.*

The playback order of the MP3 files

The playback order of the folders and files is shown in the illustration above.

Notes

- *A folder that does not include an MP3 file is skipped.*
- *If you playback an MP3 file before the information on all the CDs in the disc magazine has been read, and then set the ignition to OFF or select another source, the beginning of the current track may play back when you resume playback.*
- *The unit reads the disc information (the number of folders and files, or the location of the data) before playback of an MP3 file. It may take more time to start playback of a disc with a complex file structure.*
- *When a disc magazine is inserted into the CD changer or the reset button of the connected car audio is pressed, the unit will automatically be activated and read the information on the CDs. When the information on all the CDs in the disc magazine has been read, the unit will automatically stop operation. The unit firstly reads all of the disc information in the disc magazine. Depending on the recording method, it may take some time to stop the operation even if you set the ignition key to OFF during disc reading. This is not a malfunction.*
- *The following discs take a longer time to start playback.*
  - *a disc recorded with complicated tree structure.*
  - *a disc recorded in Multi Session.*
  - *a disc to which data can be added.*

  We recommend that you make only one or two trees for each disc.
- *Depending on the condition of the disc, it may not play back. For details, please refer to "Notes on discs."*
- *Maximum folder number in a disc: 255* (including root folder and empty folders)*
- *Maximum file number in a disc: 511**

  * Maximum number of files and folders: 512
  When a file/folder name contains many characters, this number may become less than 512.

Cautions when playing a disc that is recorded in Multi Session

- When the first track of the first session is audio CD data: Non-music data information (track number, time, etc.) is displayed with no sound.
- When the first track of the first session is not audio CD data:
  - Audio CD data is played back normally; other data is played back with no sound. (MP3 file(s) cannot be played back.)
  - If no MP3 file is in the disc, "NO Music" is displayed and nothing is played back. (Audio CD data is not recognized.)

Note on character codes

Character codes vary depending on the master unit.
For details, refer to the operating instructions for the master unit.

Note on display of playing time

In the following cases, elapsed playing time may not be displayed accurately.
– when an MP3 file of VBR (variable bit rate) is played.
– during fast-forward/reverse.

Tip

- *To specify a desired playback order, before the folder or file name, input the order by number (e.g., "01," "02"), then record contents onto a disc. (The order differs depending on the writing software.)*
- *A disc/album/track name or track number that is over 99 may not be displayed accurately when this unit is connected to a master unit that does not support MP3. A master unit that supports MP3 is recommended.*

About ID3 tag version 2

Although not a malfunction, the following occurs when an MP3 file containing ID3 tag ver.2 is played:
– When skipping a portion of ID3 tag ver.2 (at the beginning of the track), sound is not output. Skip time changes depending ID3 tag ver.2 capacity. Example: At 64 kbytes, it is about 2 seconds (with RealJukebox).
– The displayed elapsed playing time when skipping a portion of ID3 tag ver.2 is inaccurate. For MP3 files of a bit rate other than 128 kbps, time is not displayed accurately during playback.
– When an MP3 file is created with MP3 conversion software (ex. RealJukebox), ID3 tag ver.2 will automatically be written.*
** "RealJukebox is a registered trademark of RealNetworks, Inc."*
As of December, 2001

FAQ- about MP3 Audio File

Q1 What is MP3?

MP3 (MPEG Audio Layer3) is a standard for compressing audio parts of Moving Pictures Experts Group (MPEG).
The special feature of MP3 is that the music data is compressed to about 1/10 of its original size while retaining the same sound quality as a CD or an MD.
Compared with an audio disc (maximum 74 minutes running time), MP3 lets you compress about 10 audio discs or 160 four-minute songs into a CD-R/RW of 650MB.

Note

Recorded music is limited to private use only. Use of music beyond this limit requires the permission of the copyright holders. Copyright law prohibits copying, distributing, or delivering all or part of the contents.

Q2 What kind of MP3 files can be played back?

MP3 files in CD-ROMs, CD-Rs, and CD-RWs can be played.
Pay attention to the following points when creating MP3 data CDs using your computer, CD-R/RW drive, writing software, or MP3 file.

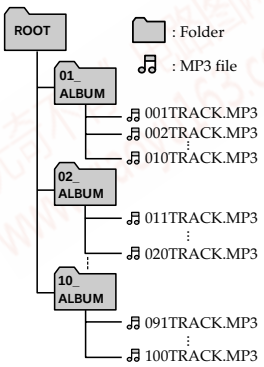
- The file must be in the ISO 9660 level 1 or level 2 format, or Joliet or Romeo in the ISO 9660 expansion format.
  A folder name or a file name with the format other than ISO 9660 level 1 may not be displayed correctly. When creating MP3 data CDs, the format of ISO 9660 level 1 is recommended.
- When naming, be sure to add the file extension ".MP3" to the MP3 file name. The unit cannot recognize an MP3 file without the extension ".MP3," or a file that is not MP3 format, even with the extension ".MP3."

Q3 Is there maximum number of folders or files to play?

Pay attention to the maximum numbers mentioned below.

- Maximum folder number in a disc: 255* (including root folder and empty folders)
- Maximum file number in a disc: 511*
  * Maximum number of files and folders: 512
    When a file/folder name contains many characters, this number may become less than 512.
- The maximum number of trees which can be played is 8.

The unit allows you to change the folders, to play just the files in your favorite folder repeatedly, or to play files randomly, create folders according to artist name or album, and put related MP3 files into folders to use the unit as a CD changer.



Q4 Can the unit play a data CD with folder levels?

The unit can play a data CD with folder levels.

Q5 Is there any restriction about the bit rate regarding playback of MP3 files?

There is no specific restriction, but a bit rate of more than 128kbps is recommended from the perspective of sound quality. The unit also supports VBR (Variable Bit Rate).

Note

Elapsed playing time may not be displayed accurately during cue/reverse.

Q6 Does the unit support a disk of 80 minutes running time (700 MB data capacity)?

The unit supports a disk of 80 minutes running time (700 MB data capacity).

Q7 Can the unit play a CD-R/RW containing both music CD data (CD-DA) and MP3 file data?

The first identified file or data will be played back.

Q8 Can the unit play a disc to which data can be added (non-finalized disc)?

The unit can play a non-finalized disc.

Q9 Can the unit play a Multi Session disc?

The unit can play a Multi Session disc. For details, refer to the operating instructions.

Q10 Does the unit support Emphasis?

The unit does not support Emphasis.

Q11 What is the sampling rate supporting the unit?

The unit is supported from 16kHz to 48kHZ.

MPEG1	48kHz	44.1kHz	32kHz
MPEG2	24kHz	22.05kHz	16kHz

Q12 Does the unit support the play list of m3u?

The unit does not support the play list of m3u.

Q13 Does the unit support ID3-Tag?

The unit supports ID3 tag ver.1.
Pay attention to the following points about ID3 tag ver.2.

About ID3 tag version 2

Although not a malfunction, the following occurs when an MP3 file containing ID3 tag ver.2 is played:
– When skipping a portion of ID3 tag ver.2 (at the beginning of the track), sound is not output. Skip time changes depending ID3 tag ver.2 capacity. Example: At 64 kbytes, it is about 2 seconds (with RealJukebox).
– The displayed elapsed playing time when skipping a portion of ID3 tag ver.2 is inaccurate. For MP3 files of a bit rate other than 128 kbps, time is not displayed accurately during playback.
– When an MP3 file is created with MP3 conversion software (ex. RealJukebox*), ID3 tag ver.2 will automatically be written.
* "RealJukebox is a registered trademark of RealNetworks, Inc."
As of December, 2001

Q14 Is a file name/a folder name of MP3 different from the name when creating a data CD (the name displayed on your computer)?

On this unit, a file name/a folder name is displayed as below.

- A file name/a folder name can be displayed up to 8 characters.
  A 9th or later character cannot be displayed or scrolled.
- A folder name or a file name in a format other than ISO 9660 level 1 may not be displayed correctly. The file name should only use one byte uppercase, one byte numeric characters, or an underscore ("_"). It should also be no more than 8 characters long, and with no more than three characters in the extension.
- Japanese phonetic symbols/ Chinese characters cannot be displayed.
  Only one byte uppercase (A-Z), one byte numeric character (0-9), and one byte symbol ("_", ".", "<", ">", "|", "+", "*") can be displayed. One byte lowercase (a-z) is changed to an uppercase character, and any other characters are displayed as "*".

Q15 MP3 files recorded onto a CD-R/RW cannot be played.

This may happen in following cases.

- The recording method onto CD-R/RW is the packet write method.
- The extension file is not an ".MP3."
- The file data is not MP3 format.
- Some recording condition (omission of data, etc.) or some disc condition (dirt, crack, curving, etc.) may cause inability to playback an MP3 file.

Q16 It takes some time to start playback of MP3 file.

The unit reads the disc information (the number of folders and files, or the location of the data) before playback of MP3 file. It may take more time to start playback of a disc with many trees.
Please refer to the instruction manual for details.

Q17 Playback skipping and no playback occur.

Recording condition onto CD-R/RW (omission of data, etc.) or disc condition (dirt, crack, curving, etc.) may cause playback skipping or no playback.

Q18 Can WAVE files be played back on this unit?

WAVE files cannot be played back on this unit.

Q19 Can other compressed formats, such as ATRAC3, be played back on the unit?

Only MP3 can be played back on the unit.

TABLE OF CONTENTS

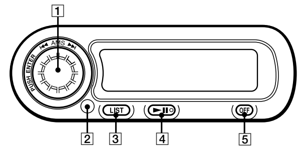
SECTION 1
GENERAL

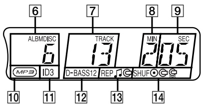
This section is extracted from instruction manual.

Location and function of controls

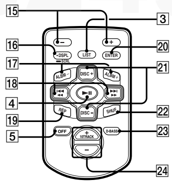
Nomenclature

Wired remote (RM-X83RF)
Télécommande à fil (RM-X83RF)



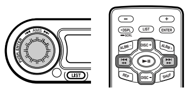


Wireless remote (RM-X84RF)
Télécommande sans fil (RM-X84RF)



1 **AMS (Automatic Music Sensor)/ENTER dial**
2 **Infrared receptor for the wireless remote**
3 **LIST button**
4 **►II (play/pause) button**
If pressed during CD playback, the CD will pause. If pressed again, CD playback will continue.
5 **OFF button**
6 **DISC/ALBM (disc number/album number) indication**
7 **TRACK (track number) indication**
8 **MIN (minute) indication**
9 **SEC (second) indication**
10 **MP3 file indication**
Available only when a disc with MP3 files is selected.
11 **ID3 tag indication**
Available only when an MP3 file is played.
12 **D-BASS indication**
13 **REP (repeat play) indication**
14 **SHUF (shuffle play) indication**
15 **–/+ buttons**
16 **DSPL/SCRL (indication change/name scroll) button**
17 **ALBM –/+ (album select) buttons**
Skips to the next/previous album. Note that if the last album is playing and the ALBM + button is pressed, playback loops back to the first album. Or if the first album is playing, and the ALBM – button is pressed, playback loops to the last album. Available only when an MP3 file is played.
18 **AMS/MANU (Automatic Music Sensor/ manual search) buttons**
19 **REP (repeat play) button**
20 **ENTER button**
21 **DISC +/– buttons**
22 **SHUF (shuffle play) button**
23 **D-BASS button**
24 **10 TRACK +/– buttons**
By pressing the 10 TRACK + or – buttons, the unit skips forwards or backwards 10 tracks (either within the current album, or into the next/previous album (still counting 10 tracks), depending on the number of tracks in the current album). Note that if any of last 10 tracks of the disc is playing and the 10 TRACK + button is pressed, playback loops back to the beginning of the disc and continues counting to make a 10-track skip. Or if any of first 10 tracks of the disc is playing, and the 10 TRACK – button is pressed, playback loops back to the end of the disc and continues counting to make a 10-track skip.

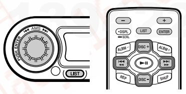
1 **Molette AMS (détecteur automatique de musique)/ENTER**
2 **Récepteur de télécommande sans fil IR**
3 **Touche LIST**
4 **Touche ►II (lecture/pause)**
Si vous appuyez sur cette touche en cours de lecture CD, le CD passe en mode de pause. Si vous appuyez de nouveau sur cette touche, la lecture CD reprend.
5 **Touche OFF**
6 **Indicateur DISC/ALBM (numéro de disque ou d'album)**
7 **Indicateur TRACK (numéro de plage)**
8 **Indication MIN (minute)**
9 **Indication SEC (seconde)**
10 **Indicateur de fichier MP3**
Disponible uniquement lorsqu'un disque comportant des fichiers MP3 est sélectionné.
11 **Indicateur d'étiquette ID3**
Disponible uniquement lors de la lecture d'un fichier MP3.
12 **Indication D-BASS**
13 **Indication REP (répétition de la lecture)**
14 **Indication SHUF (lecture aléatoire)**
15 **Touches –/+**
16 **Touche DSPL/SCRL (changement d'indicateur/défilement du nom)**
17 **Touches ALBM –/+ (sélection d'album)**
Permettent de passer à l'album précédent ou suivant. Notez que si le dernier album est en cours de lecture et que la touche ALBM + est enfoncée, la lecture revient au premier album. De même, si le premier album est en cours de lecture et que la touche ALBM – est enfoncée, la lecture revient au dernier album.
Disponibles uniquement lors de la lecture d'un fichier MP3.
18 **Touches AMS/MANU (détecteur automatique de musique/recherche manuelle)**
19 **Touche REP (lecture répétée)**
20 **Touche ENTER**
21 **Touches DISC +/–**
22 **Touche SHUF (lecture aléatoire)**
23 **Touche D-BASS**
24 **Touches 10 TRACK +/–**
Lorsque vous appuyez sur la touche 10 TRACK + ou –, l'appareil saute dix plages vers l'avant ou vers l'arrière (soit dans l'album en cours, soit dans l'album suivant ou précédent, dix plages à la fois, selon le nombre de plages de l'album en cours). Notez que si l'une des dix dernières plages du disque est en cours de lecture et que la touche 10 TRACK + est enfoncée, la lecture revient au début du disque et continue à sauter des plages jusqu'à un total de dix plages. Notez que si l'une des dix premières plages du disque est en cours de lecture et que la touche 10 TRACK – est enfoncée, la lecture passe à la fin du disque et continue à sauter des plages jusqu'à un total de dix plages.


(Wired remote) (Wireless remote)

AMS function
Keep rotating the AMS/ENTER dial until a desired track is selected.
Next track: Rotate the AMS/ENTER dial towards ►►I.
Previous track: Rotate the AMS/ENTER dial towards I◄◄.
While the first/last track on the disc is playing, if the AMS/ENTER dial is rotated, playback skips to the last/first track of the disc.

Using on the wireless remote
Press AMS/MANU ◄◄ I◄◄/►►I ►► to skip/select a track.

Manual search function (Only for the wireless remote)
Keep pressing AMS/MANU ◄◄ I◄◄/►►I ►► until a desired point of the track is selected.
The elapsed playing time of the track will be shown in the display window during manual search.
"⌞⌞ ⌞⌞" or "⌝⌝ ⌝⌝" indicates that the disc has reached the beginning/end of the track. It is not possible to reverse/fast-forward at this point.


(Wired remote) (Wireless remote)

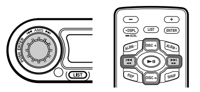
Disc select function
1 **Press (LIST).**
The disc name during playback will flash.
"MP3 DISC" will be displayed if a disc with an MP3 file is selected.
2 **Rotate the AMS/ENTER dial to select a desired disc.**
3 **Press the AMS/ENTER dial to start playback.**

Notes
The following indications may be displayed in the following cases.
- *"NO DISC": No disc is inserted in the CD changer.*
- *"NO NAME": No disc name is available.*
- *"NOT READ": The disc information cannot be read.*

Using on the wireless remote
1 **Press (LIST).**
2 **Press (+)/(–) to select a desired disc.**
3 **Press (ENTER) to start.**
Also, you can press (DISC+)/(DISC–) to select a disc.
The next/previous disc will be selected by each press.

Notes
- *The display window will be back to normal without an operation for 5 seconds during the disc select function.*
- *The disc select function is unavailable during "Changing the transmitting frequency" or "Changing the output level" procedure.*

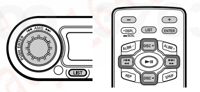
Tip
Press (LIST) to cancel the disc select function before step 3.


(Télécommande à fil) (Télécommande sans fil)

Fonction AMS
Tournez la molette AMS/ENTER jusqu'à ce que vous ayez sélectionné la plage souhaitée.
Plage suivante : Tournez la molette AMS/ENTER vers ►►I.
Plage précédente : Tournez la molette AMS/ENTER vers I◄◄.
Pendant que la première ou la dernière plage du disque est en cours de lecture, si vous tournez la molette AMS/ENTER, la lecture passe à la première ou à la dernière plage du disque.

Utilisation de la télécommande sans fil
Appuyez sur AMS/MANU ◄◄ I◄◄/►►I ►► pour sauter ou sélectionner une plage.

Fonction de recherche manuelle (Télécommande sans fil uniquement)
Maintenez enfoncée AMS/MANU ◄◄ I◄◄/►►I ►► jusqu'à ce que vous ayez sélectionné le point souhaité de la plage.
Le temps de lecture écoulé de la plage est indiqué dans la fenêtre d'affichage en cours de recherche manuelle.
"⌞⌞ ⌞⌞" ou "⌝⌝ ⌝⌝" indique que le disque a atteint le début ou la fin de la plage. À ce point, il n'est pas possible de reculer ou d'avancer rapidement.


(Télécommande à fil) (Télécommande sans fil)

Fonction de sélection de disque
1 **Appuyez sur (LIST).**
Le nom du disque clignote en cours de lecture.
"MP3 DISC" s'affiche si un disque contenant un fichier MP3 est sélectionné.
2 **Faites tourner la molette AMS/ENTER pour sélectionner le disque souhaité.**
3 **Appuyez sur la molette AMS/ENTER pour lancer la lecture.**

Remarques
Les indications ci-dessous peuvent s'afficher dans les cas suivants.
- *"NO DISC" : Aucun disque n'a été inséré dans le changeur CD.*
- *"NO NAME" : Aucun nom de disque n'est disponible.*
- *"NOT READ" : Impossible de lire les informations du disque.*

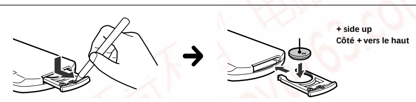
Utilisation de la télécommande sans fil
1 **Appuyez sur (LIST).**
2 **Appuyez sur (+)/(–) pour sélectionner le disque souhaité.**
3 **Appuyez sur (ENTER) pour commencer.**
Vous pouvez également appuyer sur (DISC+)/(DISC–) pour sélectionner un disque.
Chaque pression permet de sélectionner le disque suivant ou précédent.

Remarques
- *Pendant que la fonction de sélection de disque est activée, la fenêtre d'affichage revient à l'affichage normal si aucune opération n'est effectuée pendant cinq secondes.*
- *La fonction de sélection de disque n'est pas disponible pendant les procédures de changement de fréquence de transmission ou de changement de niveau de sortie.*

Conseil
Pour désactiver la fonction de sélection de disque avant l'étape 3, appuyez sur (LIST).

Installing the battery
Replace the battery with a new CR2025 lithium battery. Use of any another battery may present a risk of fire or explosion.

Installation de la pile
Remplacez la pile par une nouvelle pile au lithium CR2025. L'utilisation de tout autre type de pile peut poser un risque d'incendie ou d'explosion.



Lithium battery life
When the battery becomes weak, you will not be able to operate the unit with the wireless remote.
Battery life is approx. six months depending on the conditions of use.

WARNING
Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

Notes on the lithium battery
- *Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.*
- *Wipe the battery with a dry cloth to assure a good contact.*
- *Be sure to observe the correct polarity when installing the battery.*
- *Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.*

Autonomie de la pile au lithium
Lorsque les piles s'épuisent, il ne vous sera plus possible de commander l'appareil à l'aide de la télécommande sans fil.
L'autonomie de la pile est d'environ six mois suivant les conditions d'utilisation.

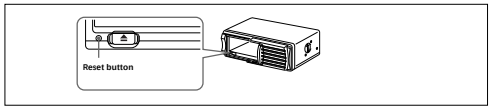
ATTENTION
Utilisée de façon incorrecte, la pile peut exploser.
Ne pas la recharger, la démonter ni la jeter au feu.

Remarques sur la pile au lithium
- *Gardez les piles au lithium hors de la portée des enfants. En cas d'ingestion, consultez immédiatement un médecin.*
- *Essuyez la pile à l'aide d'un chiffon sec de façon à assurer un bon contact.*
- *Respectez la polarité de la pile lorsque vous l'installez.*
- *Ne saisissez pas la pile à l'aide d'une pince métallique, sinon vous risquez de provoquer un court-circuit.*

Operation

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ball-point pen, etc.



Listening to a CD

1 Turn on the FM tuner of your car audio.

2 Tune in the selected transmitting frequency* with the FM tuner of your car audio.

* *The frequency of the unit is set to 88.3 MHz at the factory.*

You can change the frequency. (See "Changing the transmitting frequency" below.)

3 Press ▶II.
CD playback starts.

4 Adjust the volume with the volume control on your car audio.
All the tracks play from the beginning.

Stopping CD play

Press (OFF).

Notes
- *When CD playback stops, you may hear some noise from the speakers. To prevent this from happening, turn the volume of your car audio down before stopping CD playback.*
- *If you turn off the ignition switch of your car without stopping CD playback, it will automatically resume CD playback from where it was stopped when you turn on the ignition switch again.*
- *The unit cannot be turned on with the wireless remote. Press ▶II on the wired remote to turn on the unit.*

Listening to the radio or a tape

Be sure to stop CD playback before you start listening to the radio or a tape.

Note
Be sure to stop CD playback, otherwise there may be some interference with radio reception.

Playing tracks in random order
— Shuffle Play (Only for the wireless remote)

You can select:
- SHUF-ALBM* (SHUF) — to play the tracks on the current album in random order.
- SHUF-DISC (SHUF) — to play the tracks on the current disc in random order.
- SHUF-CHGR (SHUF) — to play all the discs in random order.

* *Available only for MP3 files.*

During playback, press (SHUF) repeatedly until the desired setting appears in the display.

"SHUF" indicator is displayed.

Shuffle Play starts.

To return to normal play mode, select "SHUF-OFF."

Playing tracks repeatedly
— Repeat Play (Only for the wireless remote)

You can select:
- REP-TRACK (REP) — to repeat a track.
- REP-ALBM* (REP) — to repeat an album.
- REP-DISC (REP) — to repeat a disc.

* *Available only for MP3 files.*

During playback, press (REP) repeatedly until the desired setting appears in the display.

"REP" indicator is displayed.

Repeat Play starts.

To return to normal play mode, select "REP-OFF."

Display items
(Only for the wireless remote)

Press (DSPL) to select the following items.

DISC/ALBUM*1 number

Displayable items
- **Track number/Elapsed playing time**
- **Disc name*2/Artist name*3**
- **Album (folder) name*1**
- **Track (file) name*1 *2**
- **ID3 tag*1**

**1 Only for MP3 files.*
Only track name/artist name/album name in ID3 tag is displayed.
If there is no ID3 tag, "NO ID3" will be displayed for a moment followed by Track number/Elapsed playing time.
**2 If there is no disc name or track name, "NO NAME" will be displayed for a moment followed by Track number/Elapsed playing time.*
**3 Only for CD TEXT discs with the artist name.*

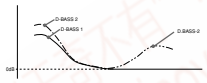
Notes
- *Disc name, artist name, and track title can be displayed with up to 8 characters.*
- *Some characters cannot be displayed.*
- *This unit cannot display the artist name for each track of a CD TEXT disc.*

Notes on MP3
- *ID3 tag applies only to version 1.*
- *Some characters cannot be displayed. Characters and signs which cannot be displayed appear as "•".*
  The maximum number of characters for album (folder) names/track (file) names that can be displayed is 64 each. ID3 tag is up to 30 characters.
- *In the following cases, elapsed playing time may not be displayed accurately.*
  — *when an MP3 file of VBR (variable bit rate) is played.*
  — *during fast-forward/reverse.*

A display item that exceeds 8 characters will be scrolled automatically. Press (DSPL) for 2 seconds for further scrolling.

Boosting the bass sound
— D-bass (Only for the wireless remote)

You can enjoy a clear and powerful bass sound. The D-bass function boosts the low frequency signal and high frequency signal with a sharper curve than conventional bass boost.
You can hear the bass line more clearly even while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the (D-BASS) button.



Adjusting the bass curve

Press (D-BASS) repeatedly to select the desired bass curve.
As the D-BASS number increases so does the effect.

To cancel the D-bass function, select "D-BASS OFF."

Notes
- *Setting the output level from 4 to 5 while using the D-bass function, the amount of bass boost decreases to avoid distortion; however, it's not a malfunction. Adjust the volume with your car audio.*
- *Selecting D-BASS 2, a distortion may occur depending on your CD.*
  Should this occur, select D-BASS or turn down the output level.

Changing the transmitting frequency

Because this unit processes CD playback sound through an FM tuner, there may be interference noise during CD playback. In such a case, change the frequency of the modulated RF signal transmitted from the unit. The initial setting is 88.3 MHz.

1 Press the AMS/ENTER dial for two seconds until frequency appears.

2 Rotate the AMS/ENTER dial repeatedly to select the frequency.
Each time you rotate the AMS/ENTER dial, the frequencies change as follows:

Right: 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.7 MHz → 89.9 MHz → 88.3 MHz

Left: 88.3 MHz → 89.9 MHz → 89.7 MHz → 89.5 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.7 MHz → 88.5 MHz → 88.3 MHz

3 Press the AMS/ENTER dial for two seconds.

Using on the wireless remote

1 Press (ENTER) for two seconds until frequency appears.

2 Press + or − repeatedly to select the frequency.

3 Press (ENTER) for two seconds.

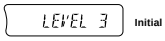
Notes
- *When you change the transmitting frequency on the unit, be sure to tune your FM tuner to the newly selected one.*
- *Press ▶II on the wired remote before changing the frequency if the power to the unit is turned off.*

Changing the output level

You can select the output level from the unit.
Normally the unit is used at the initial output level; change the level if necessary.

1 Press the AMS/ENTER dial for two seconds until frequency appears.

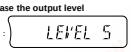
2 Press the AMS/ENTER dial momentarily.



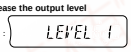
Initial setting

3 Rotate the AMS/ENTER dial repeatedly to select the output level.

To increase the output level

Right : 

To decrease the output level

Left : 

4 Press the AMS/ENTER dial for two seconds.

Using on the wireless remote

1 Press (ENTER) for two seconds.

2 Press (ENTER) again momentarily.

3 Press + or − to select the output level.

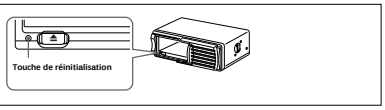
4 Press (ENTER) for two seconds.

Note
When you select level 4 or 5, the CD playback sound may be distorted or you may hear some noise. In such a case, select a lower output level on the unit and turn down the overall volume on your car audio.

Fonctionnement

Réinitialisation de l'appareil

Avant la première mise en service de cet appareil ou après avoir remplacé la batterie de la voiture, vous devez réinitialiser l'appareil.
Appuyez sur la touche de réinitialisation à l'aide d'un objet pointu comme un stylo à bille, etc.



Lecture d'un CD

1 Allumez le syntoniseur FM de votre autoradio.

2 Accordez la fréquence de transmission* sélectionnée au moyen du syntoniseur FM de votre autoradio.

* *La fréquence de l'appareil est réglée par défaut sur 88,3 MHz.*

Vous pouvez modifier la fréquence. (Voir "Changement de la fréquence de transmission", ci-dessous.)

3 Appuyez sur ▶II.
La lecture du CD démarre.

4 Ajustez le volume avec la commande de volume de votre autoradio.
Toutes les plages sont reproduites à partir du début.

Pour arrêter la lecture d'un CD

Appuyez sur (OFF).

Remarques
- *Lorsque vous arrêtez la lecture d'un CD, il se peut que vous entendiez des parasites dans les haut-parleurs. Pour éviter ce phénomène, baissez le volume de votre autoradio avant d'arrêter la lecture du CD.*
- *Si vous coupez le contact de votre voiture sans avoir arrêté la lecture du CD, il reprendra automatiquement la lecture du CD à l'endroit où vous l'avez arrêté lorsque vous rétablirez le contact.*
- *Si vous ne parvenez pas à mettre l'appareil sous tension avec la télécommande sans fil, appuyez sur ▶II sur la télécommande raccordée pour mettre l'appareil sous tension.*

Ecouter la radio ou une cassette

Arrêtez la lecture du CD avant d'écouter la radio ou une cassette.

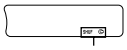
Remarque
Si vous n'arrêtez pas la lecture du CD, des interférences risquent de se produire avec la réception radio.

Lecture de plages dans un ordre quelconque
— Lecture aléatoire (Télécommande sans fil uniquement)

Vous pouvez sélectionner :
- SHUF-ALBM* (SHUF) — pour lire les plages de l'album en cours dans un ordre aléatoire.
- SHUF-DISC (SHUF) — pour reproduire les plages du disque en cours dans un ordre aléatoire.
- SHUF-CHGR (SHUF) — pour écouter tous les disques dans un ordre aléatoire.

* *Disponible uniquement pour les fichiers MP3.*

En cours de lecture, appuyez plusieurs fois sur (SHUF) jusqu'à ce que le réglage souhaité apparaisse dans la fenêtre d'affichage.



L'indication "SHUF" est affichée.

La lecture aléatoire démarre.

Pour revenir au mode de lecture normale, sélectionnez "SHUF-OFF".

Lecture de plages répétée
— Lecture répétée (Télécommande sans fil uniquement)

Vous pouvez sélectionner :
- REP-TRACK (REP) — pour répéter une plage.
- REP-ALBM* (REP) — pour répéter un album.
- REP-DISC (REP) — pour répéter un disque.

* *Disponible uniquement pour les fichiers MP3.*

En cours de lecture, appuyez plusieurs fois sur (REP) jusqu'à ce que le réglage souhaité apparaisse dans la fenêtre d'affichage.

L'indication "REP" est affichée.

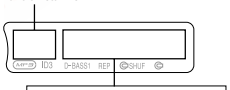
La lecture répétée démarre.

Pour revenir au mode de lecture normale, sélectionnez "REP-OFF".

Rubriques d'affichage
(Télécommande sans fil uniquement)

Appuyez sur (DSPL) pour sélectionner l'une des rubriques suivantes.

Numéro DISC/ALBUM*1



Rubriques affichables
- **Numéro de plage/Temps de lecture écoulé**
- **Titre du disque*2/Nom de l'artiste*3**
- **Nom de l'album (dossier)*1**
- **Nom de la plage (fichier)*1 *2**
- **Tag ID3*1**

**1 Uniquement pour les fichiers MP3.*
Dans une étiquette ID3, seuls le nom de la plage, de l'artiste et de l'album sont affichés.
S'il n'y a pas d'étiquette ID3, l'indication "NO ID3" s'affiche brièvement, suivie du numéro de la plage/du temps de lecture écoulé.
**2 S'il n'y a pas de nom de disque ou de nom de plage, l'indication "NO NAME" s'affiche brièvement, suivie du numéro de la plage/du temps de lecture écoulé.*
**3 Uniquement pour les disques CD TEXT incluant le nom de l'artiste.*

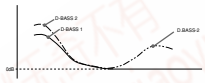
Remarques
- *Le nom du disque, le nom de l'artiste et le titre de la plage peuvent être affichés avec 8 caractères maximum.*
- *Certains caractères ne peuvent pas être affichés.*
- *Cet appareil ne peut pas afficher le nom de l'artiste pour chaque plage d'un disque CD TEXT.*

Remarques sur le procédé MP3
- *Le tag ID3 s'applique uniquement à la version 1.*
- *Certains caractères ne peuvent pas être affichés. Les caractères et signes qui ne peuvent être affichés sont représentés par le symbole "•".*
  Les noms d'albums (dossiers) et de plages (fichiers) peuvent être affichés dans la limite de 64 caractères chacun. Les noms des étiquettes ID3 peuvent être affichés dans une limite de 30 caractères.
- *Dans les cas suivants, la durée de lecture écoulée peut ne pas être exacte.*
  — *lors de la lecture d'un fichier MP3 débit binaire variable.*
  — *en cours d'avance/de retour rapide.*

Une rubrique d'affichage de plus de huit caractères défile automatiquement dans l'affichage. Appuyez sur (DSPL) pendant deux secondes pour continuer à faire défiler le texte.

Renforcement des graves
— D-bass (Télécommande sans fil uniquement)

Vous pouvez exploiter des graves claires et puissantes. La fonction D-bass renforce les signaux de basse fréquence et les signaux de haute fréquence avec une courbe plus tendue qu'une fonction d'accentuation classique.
Vous entendez plus distinctement les graves, même si le volume de la partie vocale reste au même niveau. Vous pouvez renforcer et ajuster les graves à l'aide de la touche (D-BASS).



Réglage de la courbe des graves

Appuyez plusieurs fois de suite sur (D-BASS) pour sélectionner la courbe des graves voulue.
L'effet s'intensifie à mesure que la valeur D-BASS augmente.

Pour annuler la fonction D-bass, sélectionnez "D-BASS OFF".

Remarques
- *Si vous augmentez le niveau d'écoute de 4 à 5 alors que vous utilisez la fonction D-bass, le niveau des basses diminue pour éviter une déformation du son ; il ne s'agit en aucun cas d'un dysfonctionnement. Réglez le volume avec votre autoradio.*
- *Si vous sélectionnez D-BASS 2, une déformation du son peut se produire selon votre CD.*
  Si c'était le cas, sélectionnez D-BASS ou baissez le niveau d'écoute.

Changement de la fréquence de transmission

Comme cet appareil traite le son de lecture CD via un syntoniseur FM, il se peut qu'il y ait des interférences durant la lecture du CD. En pareil cas, changez la fréquence du signal RF modulé transmis par l'appareil. Le réglage initial est de 88,3 MHz.

1 Appuyez sur la molette AMS/ENTER pendant deux secondes jusqu'à ce que la fréquence s'affiche.

2 Faites tourner la molette AMS/ENTER à plusieurs reprises pour sélectionner la fréquence.
À chaque rotation de la commande AMS/ENTER, la fréquence change comme suit :

Droite : 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.7 MHz → 89.9 MHz → 88.3 MHz

Gauche : 88.3 MHz → 89.9 MHz → 89.7 MHz → 89.5 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.7 MHz → 88.5 MHz → 88.3 MHz

3 Appuyez sur la molette AMS/ENTER pendant deux secondes.

Utilisation de la télécommande sans fil

1 Appuyez sur (ENTER) pendant deux secondes jusqu'à ce que la fréquence apparaisse.

2 Appuyez plusieurs fois de suite sur + ou − pour sélectionner la fréquence.

3 Appuyez sur (ENTER) pendant deux secondes.

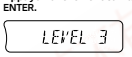
Remarques
- *Si vous changez la fréquence de transmission de l'appareil, n'oubliez pas de syntoniser votre syntoniseur FM sur la nouvelle fréquence sélectionnée.*
- *Appuyez sur la touche ▶II de la télécommande filaire avant de changer la fréquence si l'appareil n'est pas sous tension.*

Changement du niveau de sortie

Vous pouvez sélectionner le niveau de sortie de l'appareil. En principe, l'appareil est utilisé au niveau de sortie initial ; changez le niveau si nécessaire.

1 Appuyez sur la molette AMS/ENTER pendant deux secondes jusqu'à ce que la fréquence s'affiche.

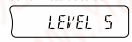
2 Appuyez brièvement sur la molette AMS/ENTER.



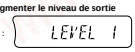
Réglage initial

3 Faites tourner la molette AMS/ENTER à plusieurs reprises pour sélectionner le niveau de sortie.

Pour diminuer le niveau de sortie

Droite : 

Pour augmenter le niveau de sortie

Gauche : 

4 Appuyez sur la molette AMS/ENTER pendant deux.

Utilisation de la télécommande sans fil

1 Appuyez sur (ENTER) pendant deux secondes.

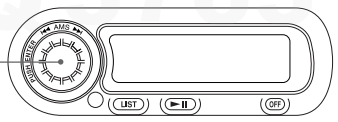
2 Appuyez de nouveau brièvement sur (ENTER).

3 Appuyez sur + ou − pour sélectionner le niveau de sortie.

4 Appuyez sur (ENTER) pendant deux secondes.

Remarque
Si vous sélectionnez le niveau 4 ou 5, le son de lecture CD peut comporter des distorsions ou des parasites. En pareil cas, sélectionnez un niveau de sortie inférieure et baissez le volume de votre autoradio.

Wired remote (RM-X83RF)/Télécommande à fil (RM-X83RF)



Note
The supplied wireless remote (RM-X84RF) can be operated almost like the wired remote (RM-X83RF).

Remarque
La télécommande sans fil fournie (RM-X84RF) se manipule pratiquement comme la télécommande filaire (RM-X83RF).

Changing the transmitting frequency

Because this unit processes CD playback sound through an FM tuner, there may be interference noise during CD playback. In such a case, change the frequency of the modulated RF signal transmitted from the unit. The initial setting is 88.3 MHz.

1 Press the AMS/ENTER dial for two seconds until frequency appears.

2 Rotate the AMS/ENTER dial repeatedly to select the frequency.
Each time you rotate the AMS/ENTER dial, the frequencies change as follows:

Right : 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.7 MHz → 89.9 MHz → 88.3 MHz

Left : 88.3 MHz → 89.9 MHz → 89.7 MHz → 89.5 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.7 MHz → 88.5 MHz → 88.3 MHz

3 Press the AMS/ENTER dial for two seconds.

Using on the wireless remote

1 Press (ENTER) for two seconds until frequency appears.
2 Press ⊖ or ⊕ repeatedly to select the frequency.
3 Press (ENTER) for two seconds.

Notes
- *When you change the transmitting frequency on the unit, be sure to tune your FM tuner to the newly selected one.*
- *Press ▶II on the wired remote before changing the frequency if the power of the unit is turned off.*

Changement de la fréquence de transmission

Comme cet appareil traite le son de lecture CD via un syntoniseur FM, il se peut qu'il y ait des interférences durant la lecture du CD. En pareil cas, changez la fréquence du signal RF modulé transmis par l'appareil. Le réglage initial est de 88,3 MHz.

1 Appuyez sur la molette AMS/ENTER pendant deux secondes jusqu'à ce que la fréquence s'affiche.

2 Faites tourner la molette AMS/ENTER à plusieurs reprises pour sélectionner la fréquence.
À chaque rotation de la commande AMS/ENTER, la fréquence change comme suit :

Droite : 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.7 MHz → 89.9 MHz → 88.3 MHz

Gauche : 88.3 MHz → 89.9 MHz → 89.7 MHz → 89.5 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.7 MHz → 88.5 MHz → 88.3 MHz

3 Appuyez sur la molette AMS/ENTER pendant deux secondes.

Utilisation de la télécommande sans fil

1 Appuyez sur (ENTER) pendant deux secondes jusqu'à ce que la fréquence apparaisse.
2 Appuyez plusieurs fois de suite sur ⊕ ou ⊖ pour sélectionner la fréquence.
3 Appuyez sur (ENTER) pendant deux secondes.

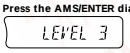
Remarques
- *Si vous changez la fréquence de transmission de l'appareil, n'oubliez pas de syntoniser votre syntoniseur FM sur la nouvelle fréquence sélectionnée.*
- *Appuyez sur la touche ▶II de la télécommande filaire avant de changer la fréquence si l'appareil n'est pas sous tension.*

Changing the output level

You can select the output level from the unit. Normally the unit is used at the initial output level; change the level if necessary.

1 Press the AMS/ENTER dial for two seconds until frequency appears.

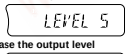
2 Press the AMS/ENTER dial momentarily.



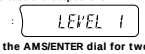
Initial setting

3 Rotate the AMS/ENTER dial repeatedly to select the output level.

To increase the output level

Right : 

To decrease the output level

Left : 

4 Press the AMS/ENTER dial for two seconds.

Using on the wireless remote

1 Press (ENTER) for two seconds.
2 Press (ENTER) again momentarily.
3 Press ⊕ or ⊖ to select the output level.
4 Press (ENTER) for two seconds.

Note
When you select level 4 or 5, the CD playback sound may be distorted or you may hear some noise. In such a case, select a lower output level on the unit and turn down the overall volume on your car audio.

Changement du niveau de sortie

Vous pouvez sélectionner le niveau de sortie de l'appareil. En principe, l'appareil est utilisé au niveau de sortie initial ; changez le niveau si nécessaire.

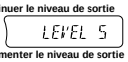
1 Appuyez sur la molette AMS/ENTER pendant deux secondes jusqu'à ce que la fréquence s'affiche.

2 Appuyez brièvement sur la molette AMS/ENTER.

Réglage initial

3 Faites tourner la molette AMS/ENTER à plusieurs reprises pour sélectionner le niveau de sortie.

Pour diminuer le niveau de sortie

Droite : 

Pour augmenter le niveau de sortie

Gauche : 

4 Appuyez sur la molette AMS/ENTER pendant deux.

Utilisation de la télécommande sans fil

1 Appuyez sur (ENTER) pendant deux secondes.
2 Appuyez de nouveau brièvement sur (ENTER).
3 Appuyez sur ⊕ ou ⊖ pour sélectionner le niveau de sortie.
4 Appuyez sur (ENTER) pendant deux secondes.

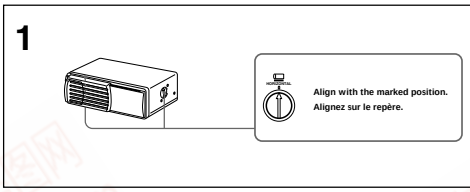
Remarque
Si vous sélectionnez le niveau 4 ou 5, le son de lecture CD peut comporter des distorsions ou des parasites. En pareil cas, sélectionnez un niveau de sortie inférieure et baissez le volume de votre autoradio.

Installation

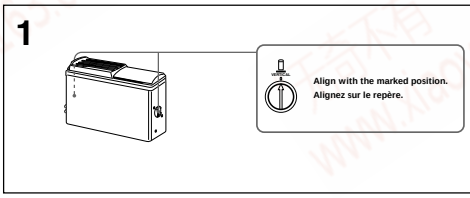
How to install the CD changer

- When you install the CD changer, be careful not to damage wiring or equipment on the other side of the mounting surface.
- The brackets ① provide two positions for mounting, high and low. Use the appropriate screw holes according to your preference.

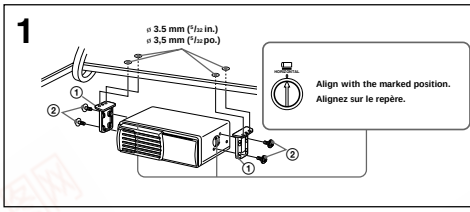
Horizontal installation



Vertical installation



Suspended installation

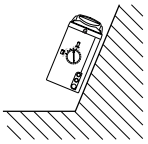


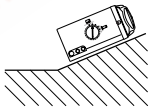
When the unit is to be installed under the rear tray or in the trunk, observe the following.

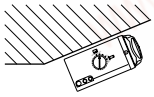
- Choose the mounting location carefully so that the unit can be installed horizontally.
- Make sure the unit does not hinder the action of the torsion bar spring, hinge, etc. of the deck lid.

Inclined installation

After installing the unit, align the dials with one of the marks so the arrow comes as close to a vertical position as possible.







Note
Be sure to align the left and right dials with the same mark.

Installing the wired remote

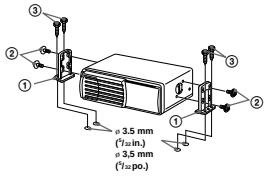
Use the supplied double-sided adhesive tape ④, and mount the wired remote in a suitable location where it will not interfere with your driving.

Installation

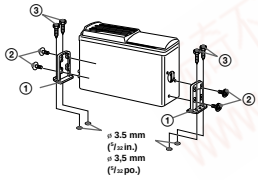
Installation du changeur de CD

- Quand vous installez le changeur de CD, veillez à ne pas endommager les câbles ou les instruments qui se trouvent de l'autre côté.
- Les supports ① offrent deux positions de montage, haut et bas. Utilisez les trous de vissage appropriés en fonction de vos préférences.

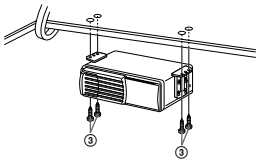
Installation horizontale



Installation verticale



Installation suspendue



Si vous comptez installer le changeur de CD sous la plage arrière ou dans le coffre, prenez les précautions suivantes.

- Choisissez soigneusement l'emplacement pour que le changeur soit à l'horizontale.
- Assurez-vous que l'appareil n'entrave pas l'action du ressort à barre de torsion, des charnières, etc., du couvercle de la malle.

Installation inclinée

Après avoir installé l'appareil, alignez les disques sur l'un des repères afin que la flèche soit aussi proche que possible de la position verticale.

Remarque
Veillez à aligner les disques gauche et droite sur le même repère.

Installation de la télécommande à fil

Utilisez la bande à double face adhésive fournie ④ pour installer la télécommande à fil dans un endroit qui ne risque pas de gêner la conduite.

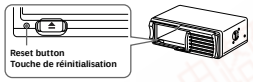
Connections

Caution

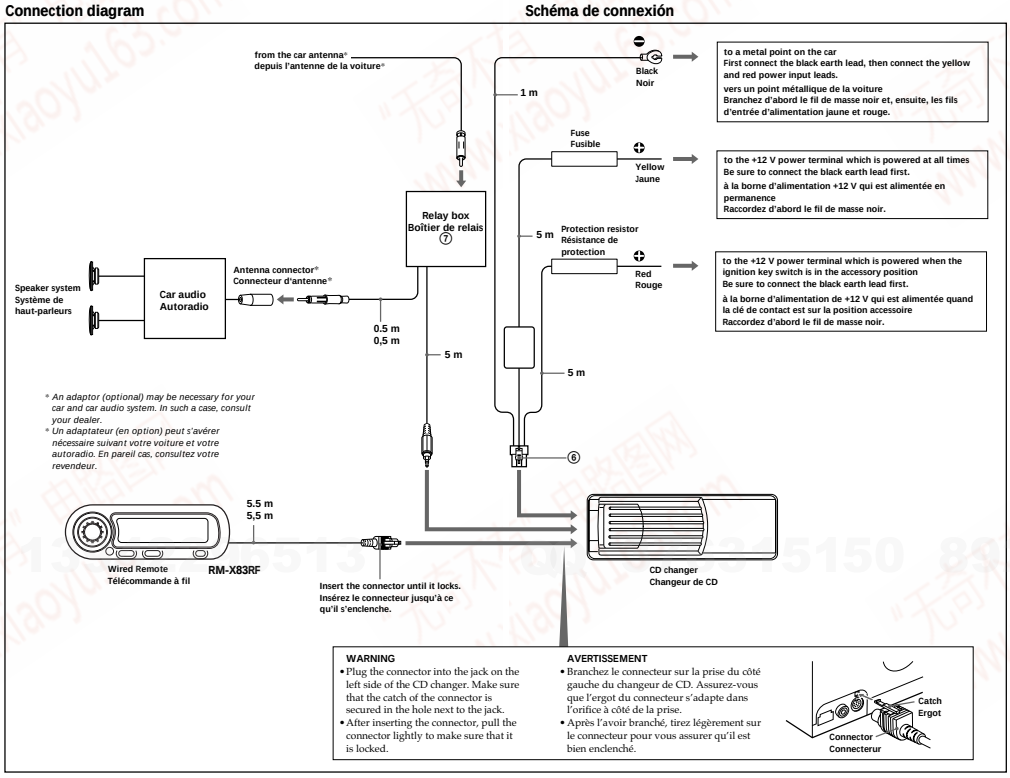
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is powered when the ignition switch is in the accessory position.
- **Run all earth wires to a common earth point.**
- **When finished making all the connections, press the reset button of the CD chnager. (See "Reset button" below.)**
- The use of optical instruments with this product will increase eye hazard.

Reset button

After the installation and connections are completed, after the batteries have been changed, be sure to press the reset button with a ball-point pen, etc.



Connection diagram



Fuse replacement

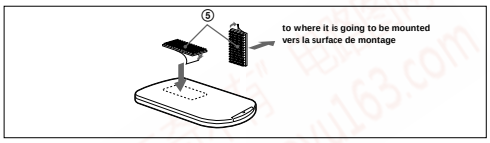
If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction.

Warning

Use a fuse with the specified amperage rating. Use of a higher amperage fuse may cause serious damage.

Installing the wireless remote

Use the supplied hook and loop fastener ⑤, and mount the wireless remote in a suitable location where it will not interfere with your driving.



Connexions

Précautions

- Cet appareil est uniquement conçu pour fonctionner sur 12 V CC avec une masse négative.
- Avant d'effectuer les raccordements, coupez le contact du véhicule pour éviter tout court-circuit.
- Branchez les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veillez à raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoire.
- **Rassemblez tous les fils de terre en un point de masse commun.**
- **Lorsque vous avez terminé toutes les connexions, appuyez sur la touche de réinitialisation du changeur de CD. (Voir "Touche de réinitialisation" ci-après.)**
- L'utilisation d'instruments optiques avec cet appareil accroît les risques de blessures aux yeux.

Touche de réinitialisation

Après avoir terminé l'installation et les connexions ou remplacé les piles, n'oubliez pas d'appuyer sur la touche de réinitialisation à l'aide d'un stylo à bille, etc.

Schéma de connexión

Remplacement du fusible

Si le fusible saute, vérifiez la connexion d'alimentation et remplacez-le. Si le fusible saute à nouveau quand vous venez de le remplacer, il s'agit peut être d'un mauvais fonctionnement interne.

Avertissement

Utilisez un fusible de l'ampérage spécifié. L'utilisation d'un fusible d'ampérage supérieur peut causer de sérieux dommages.

Installation de la télécommande sans fil

Utilisez les bandes adhésives ⑤ pour installer la télécommande sans fil dans un endroit qui ne risque pas de gêner la conduite.

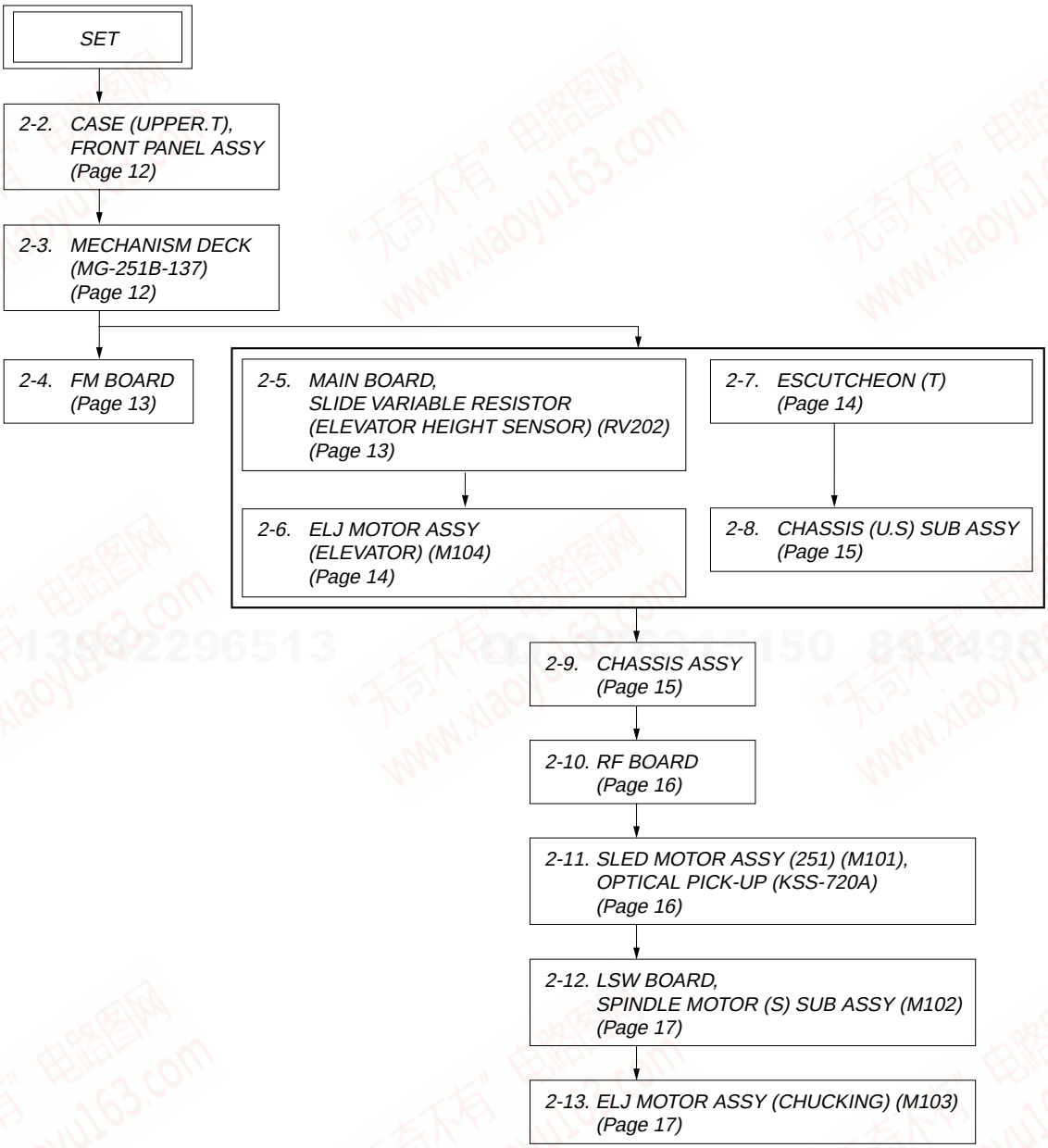
SECTION 2
DISASSEMBLY

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

2-1. DISASSEMBLY FLOW

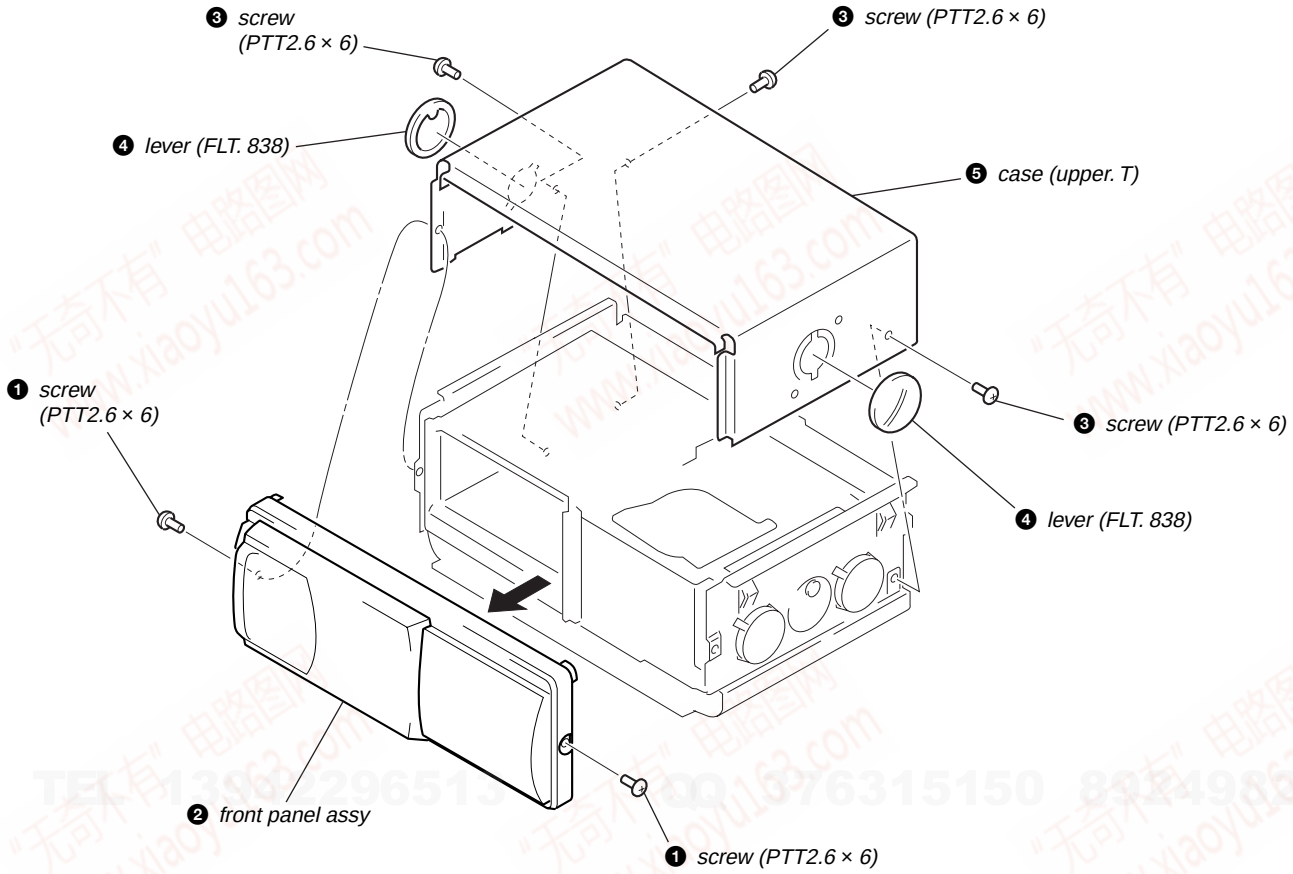
Note 1: *The process described in* ▣ *can be performed in any order.*

Note 2: *Without completing the process described in* ▣*, the next process can not be performed.*

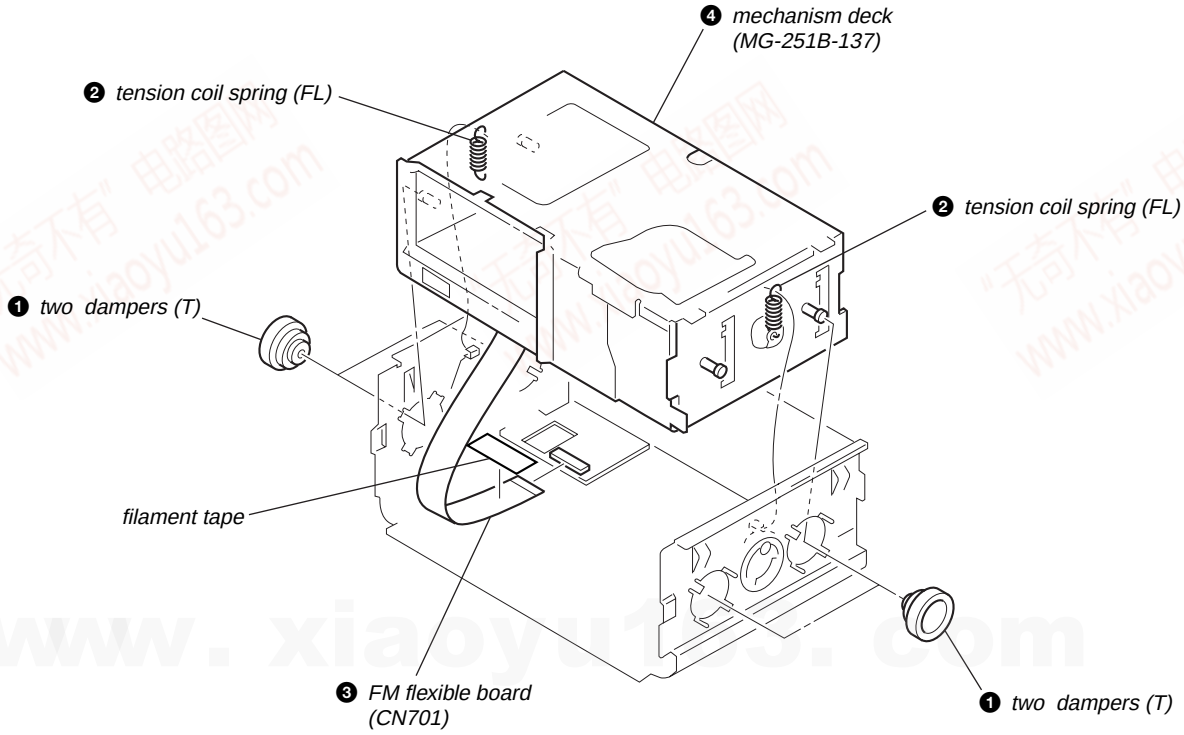


Note: Follow the disassembly procedure in the numerical order given.

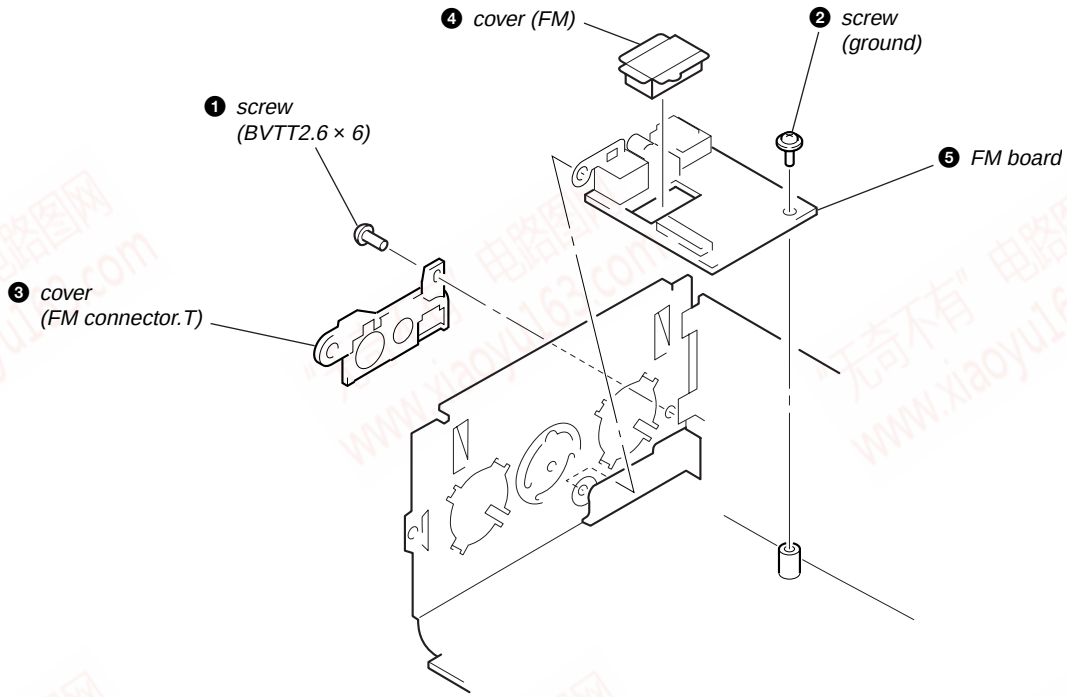
2-2. CASE (UPPER. T), FRONT PANEL ASSY



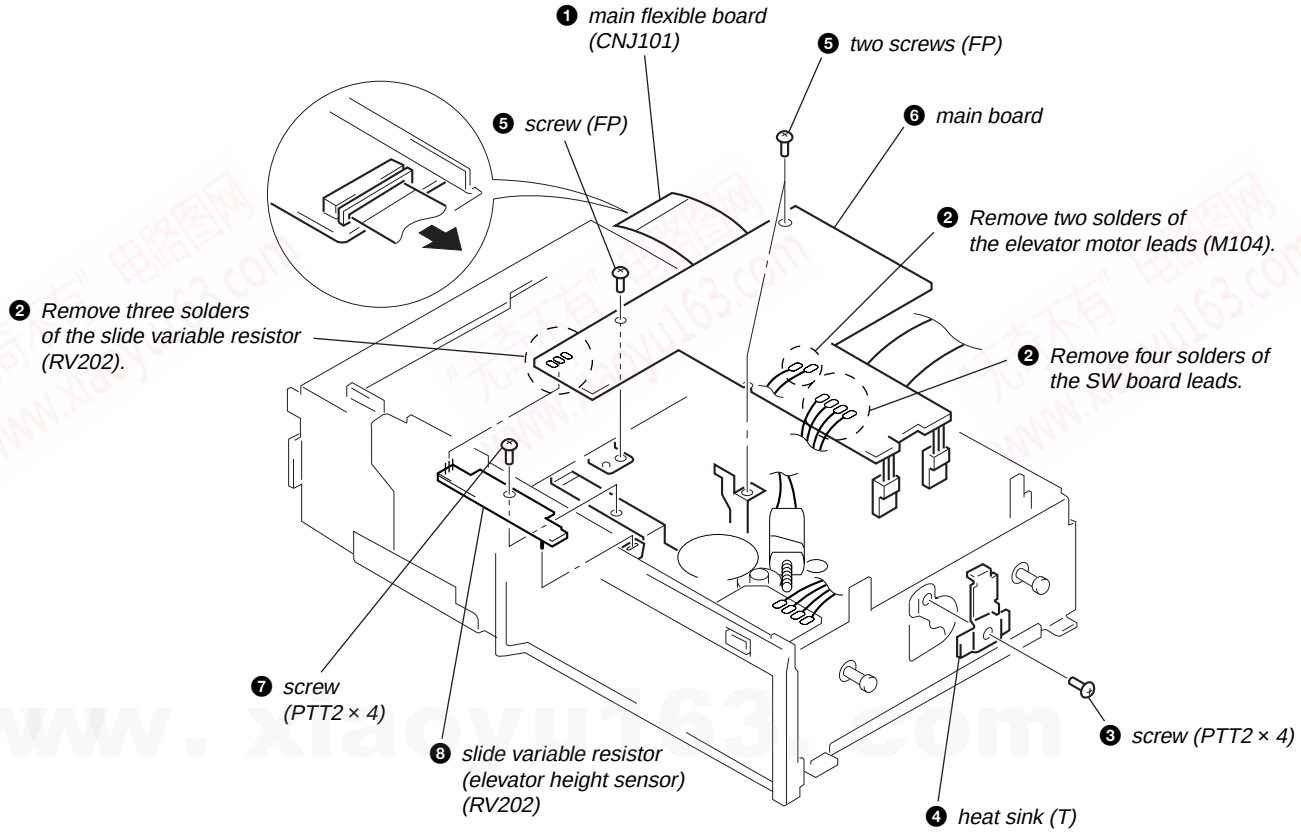
2-3. MECHANISM DECK (MG-251B-137)



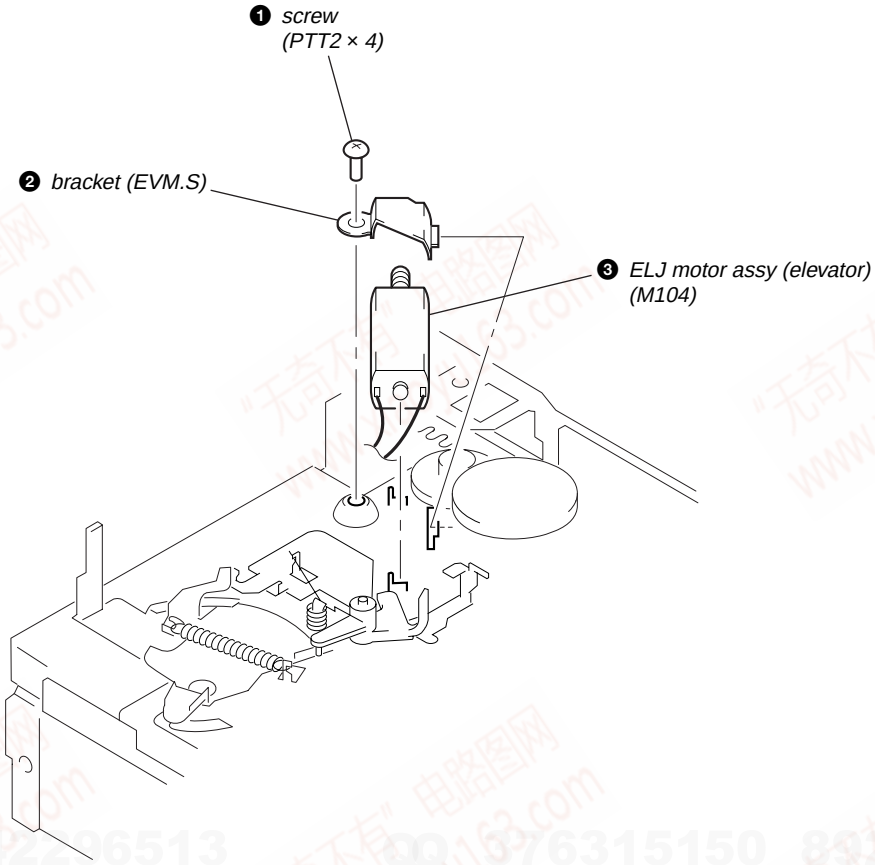
2-4. FM BOARD



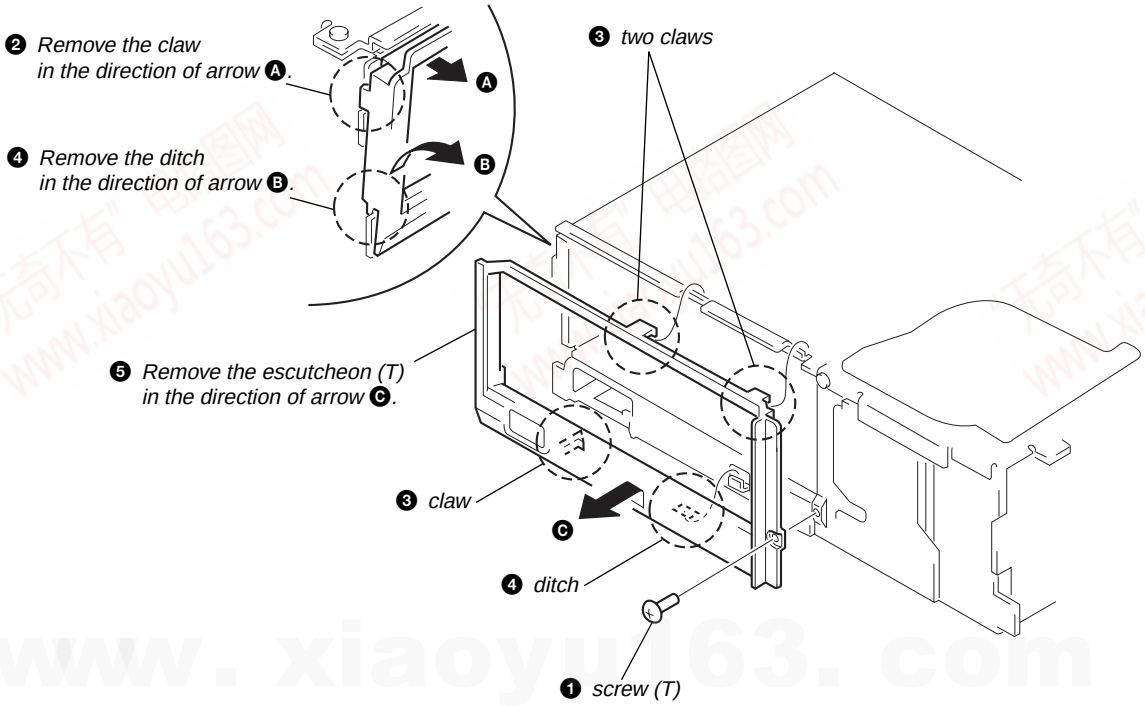
2-5. MAIN BOARD, SLIDE VARIABLE RESISTOR (ELEVATOR HEIGHT SENSOR) (RV202)



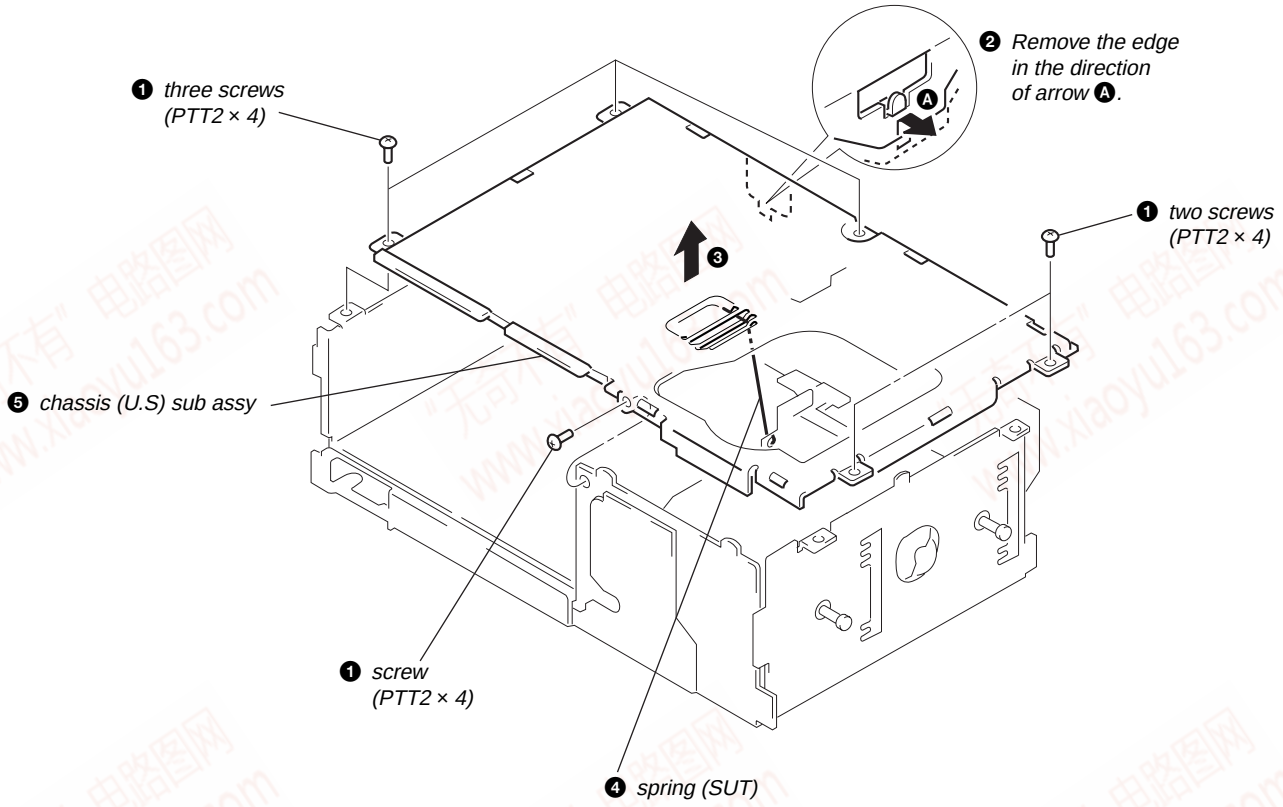
2-6. ELJ MOTOR ASSY (ELEVATOR) (M104)



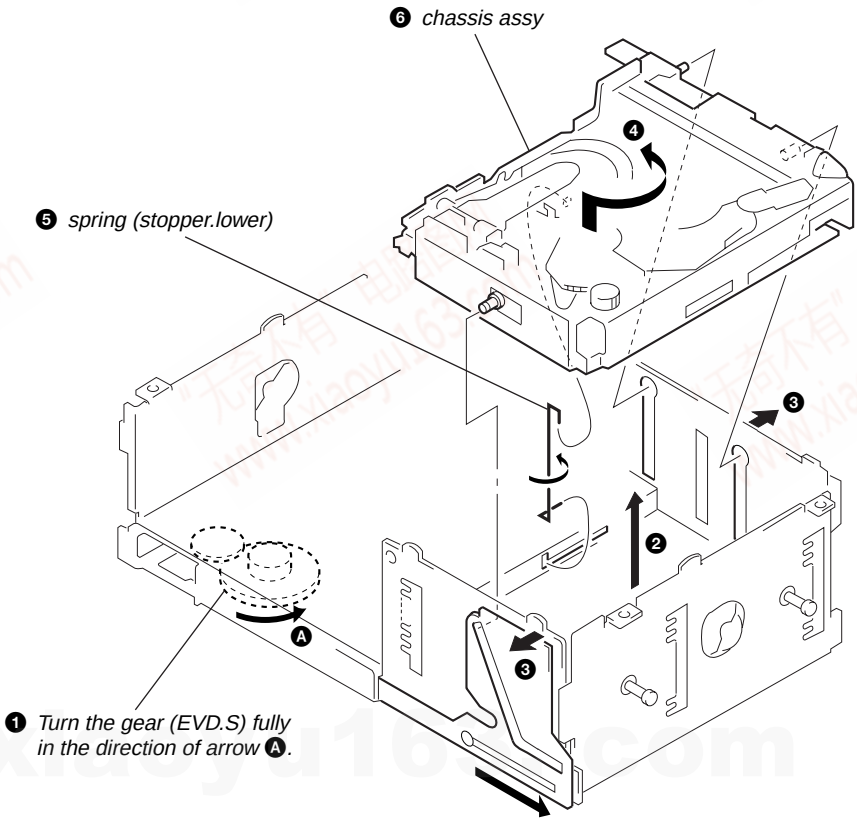
2-7. ESCUTCHEON (T)



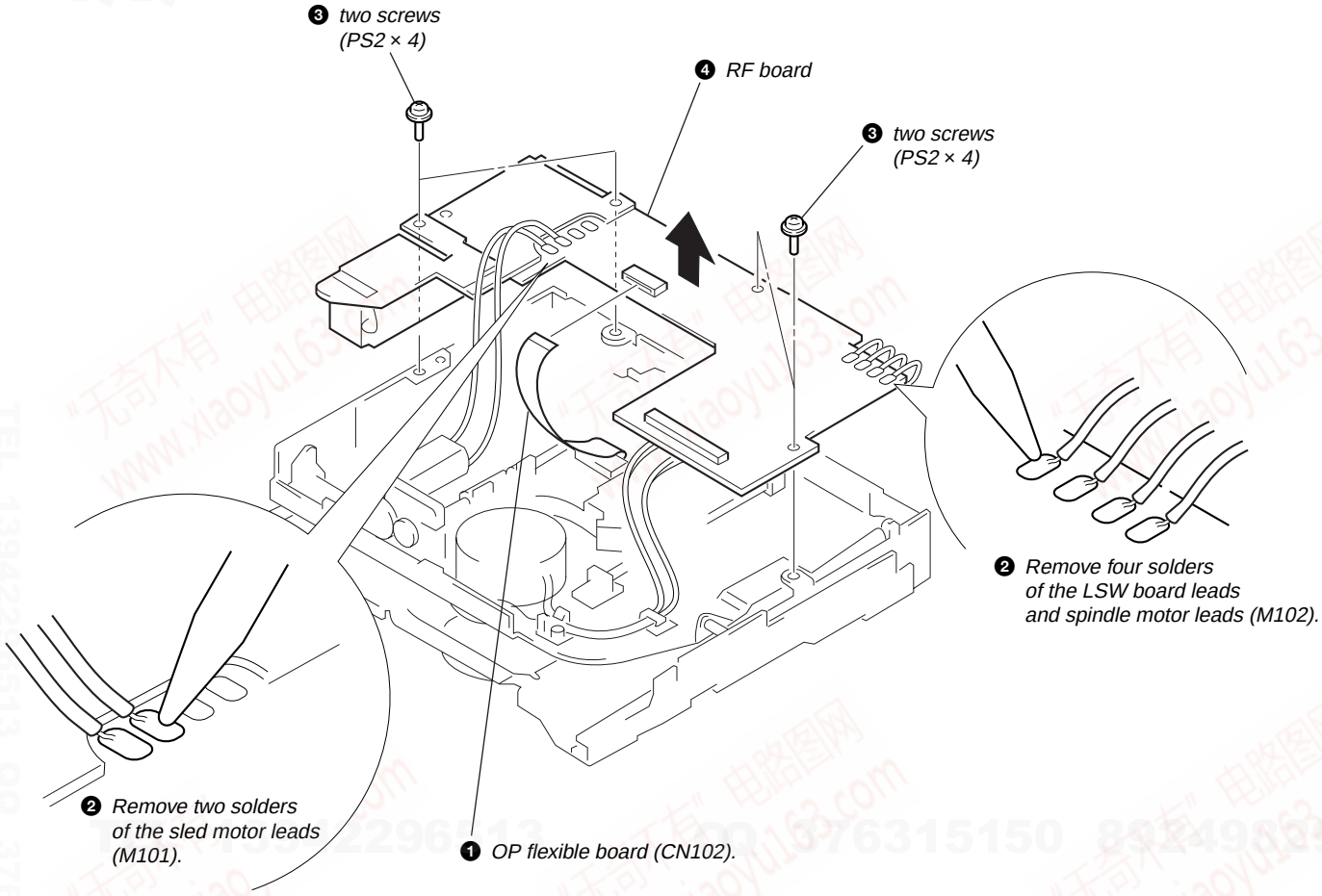
2-8. CHASSIS (U.S) SUB ASSY



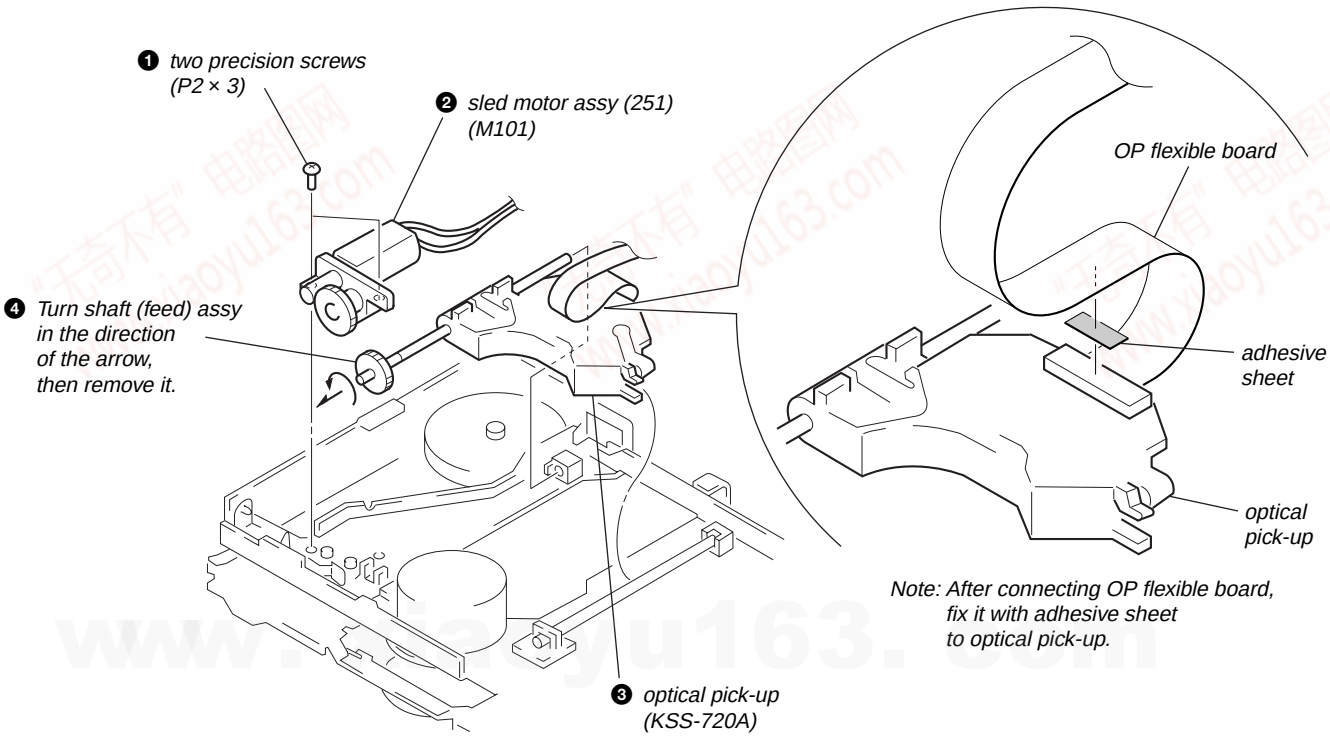
2-9. CHASSIS ASSY



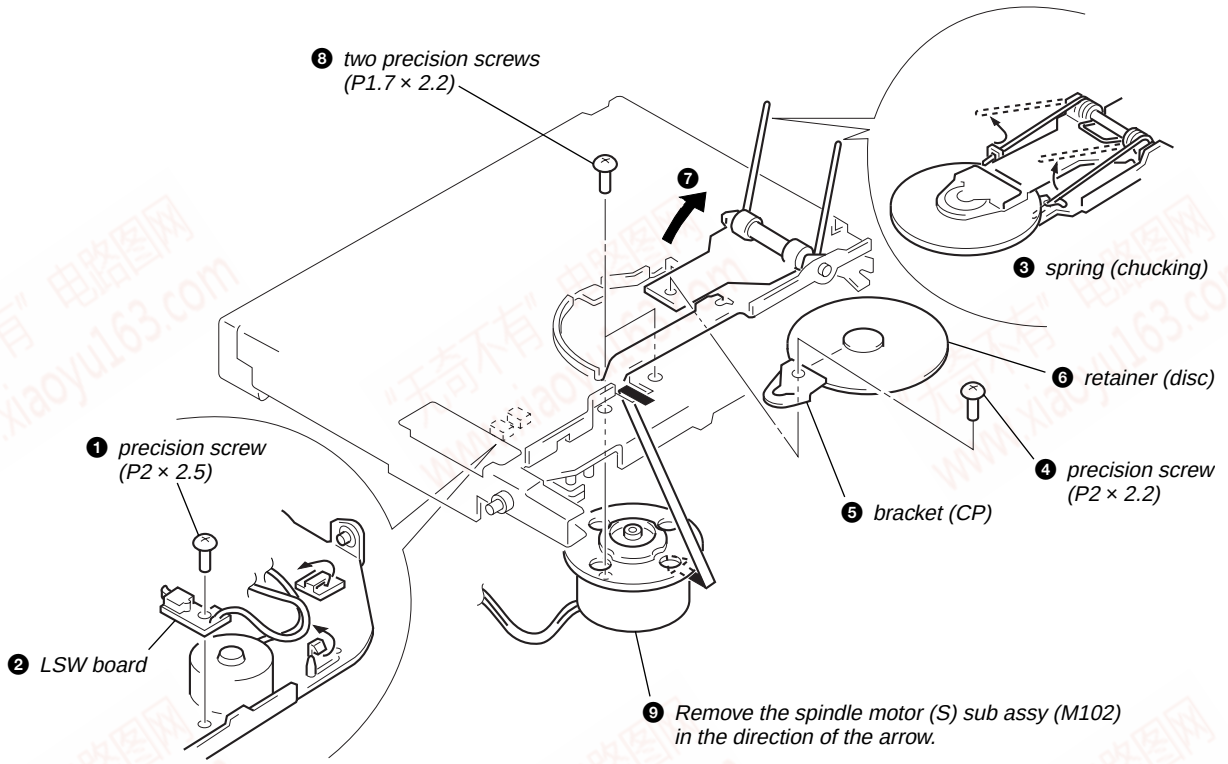
2-10. RF BOARD



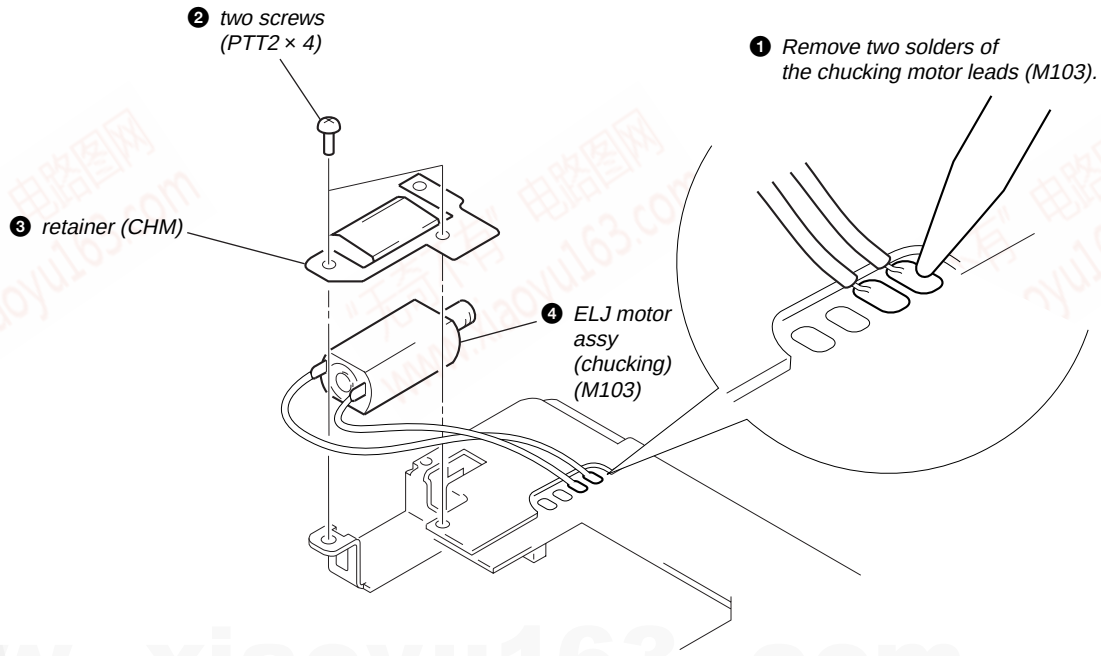
2-11. SLED MOTOR ASSY (251) (M101), OPTICAL PICK-UP (KSS-720A)



2-12. LSW BOARD, SPINDLE MOTOR (S) SUB ASSY (M102)



2-13. ELJ MOTOR ASSY (CHUCKING) (M103)



SECTION 3
ASSEMBLY

• This set can be assembled in the order shown below.

3-1. ASSEMBLY FLOW

3-2. *OPTICAL PICK-UP COMPLETE ASSY (Page 18)*

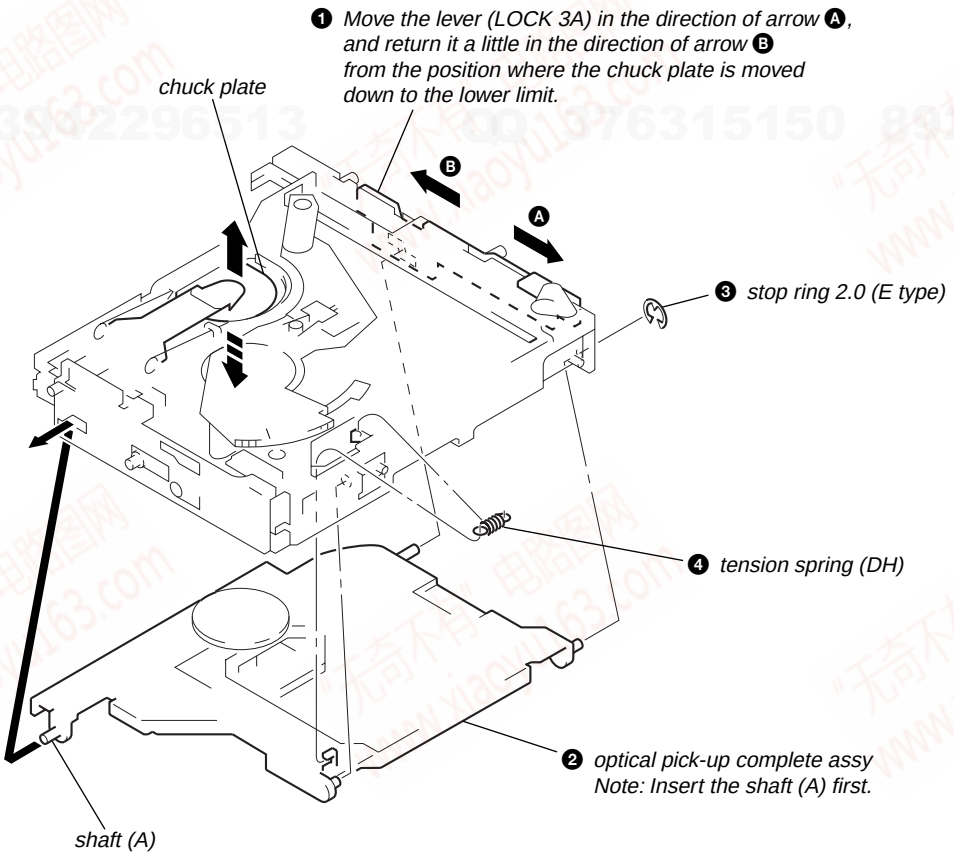
↓

3-3. *GEAR (LOMINI) / (LOAD 1) ASSY (Page 19)*

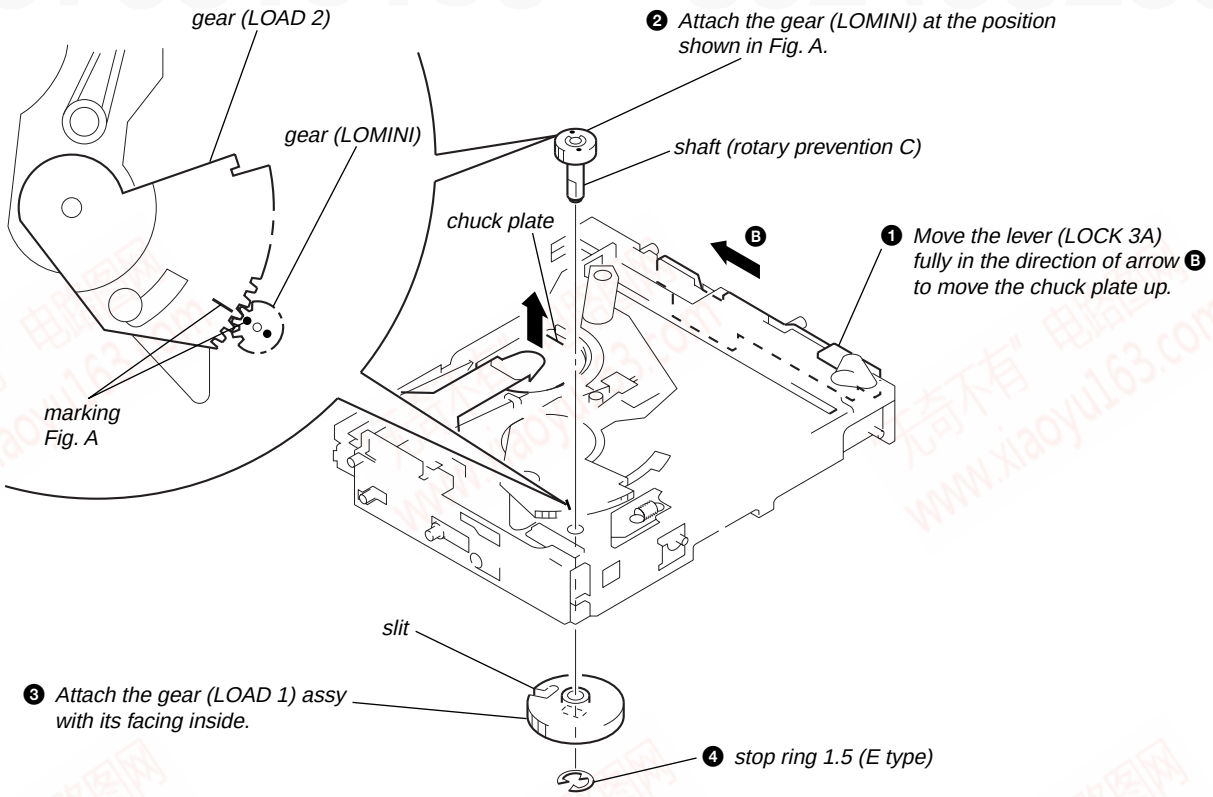
↓

3-4. *OPERATION CHECK (Page 19)*

3-2. OPTICAL PICK-UP COMPLETE ASSY

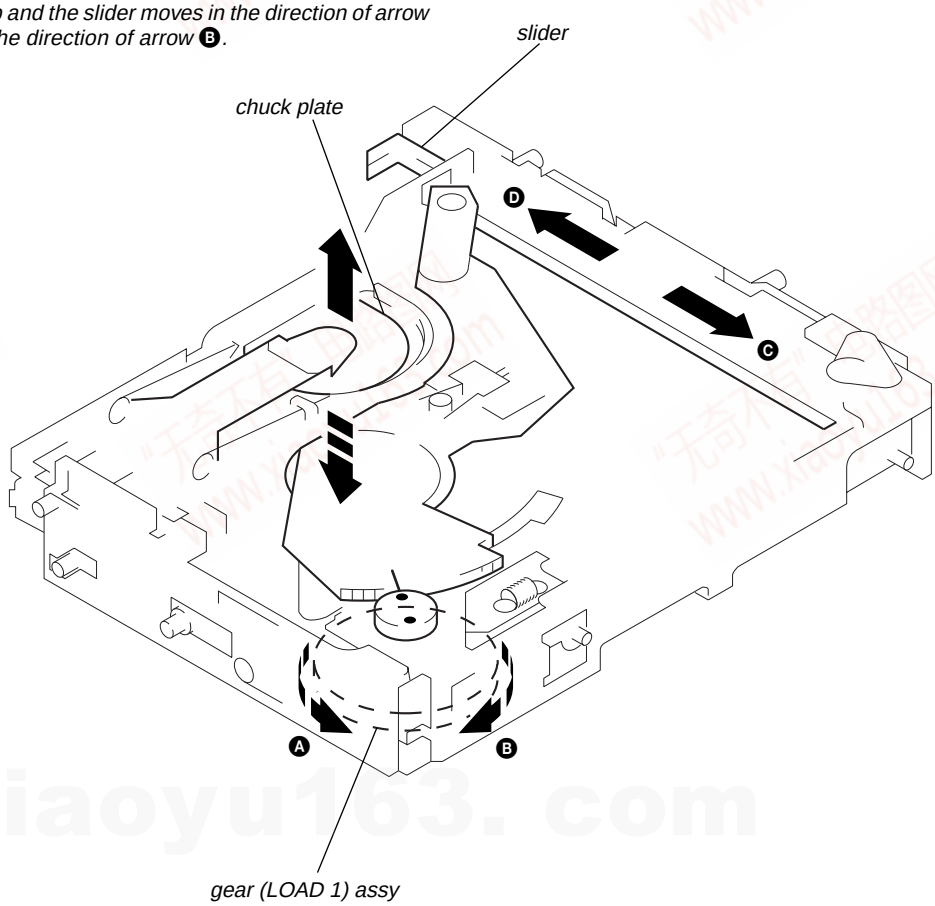


3-3. GEAR (LOMINI)/(LOAD 1) ASSY



3-4. OPERATION CHECK

❶ Confirm that the slider moves in the direction of arrow C to move down the chuck plate if the gear (LOAD 1) is rotated in the direction of arrow A or the chuck plate moves up and the slider moves in the direction of arrow D if the gear is rotated in the direction of arrow B.

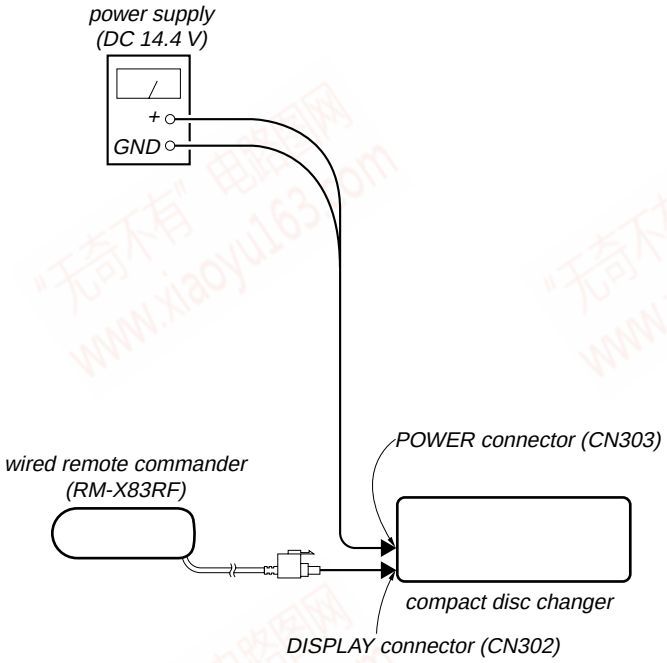


SECTION 4
MECHANICAL ADJUSTMENT

ELEVATOR HEIGHT (ADDRESS) ADJUSTMENT

Note: This adjustments is necessary when the system controller (IC201), variable resistor (RV201), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

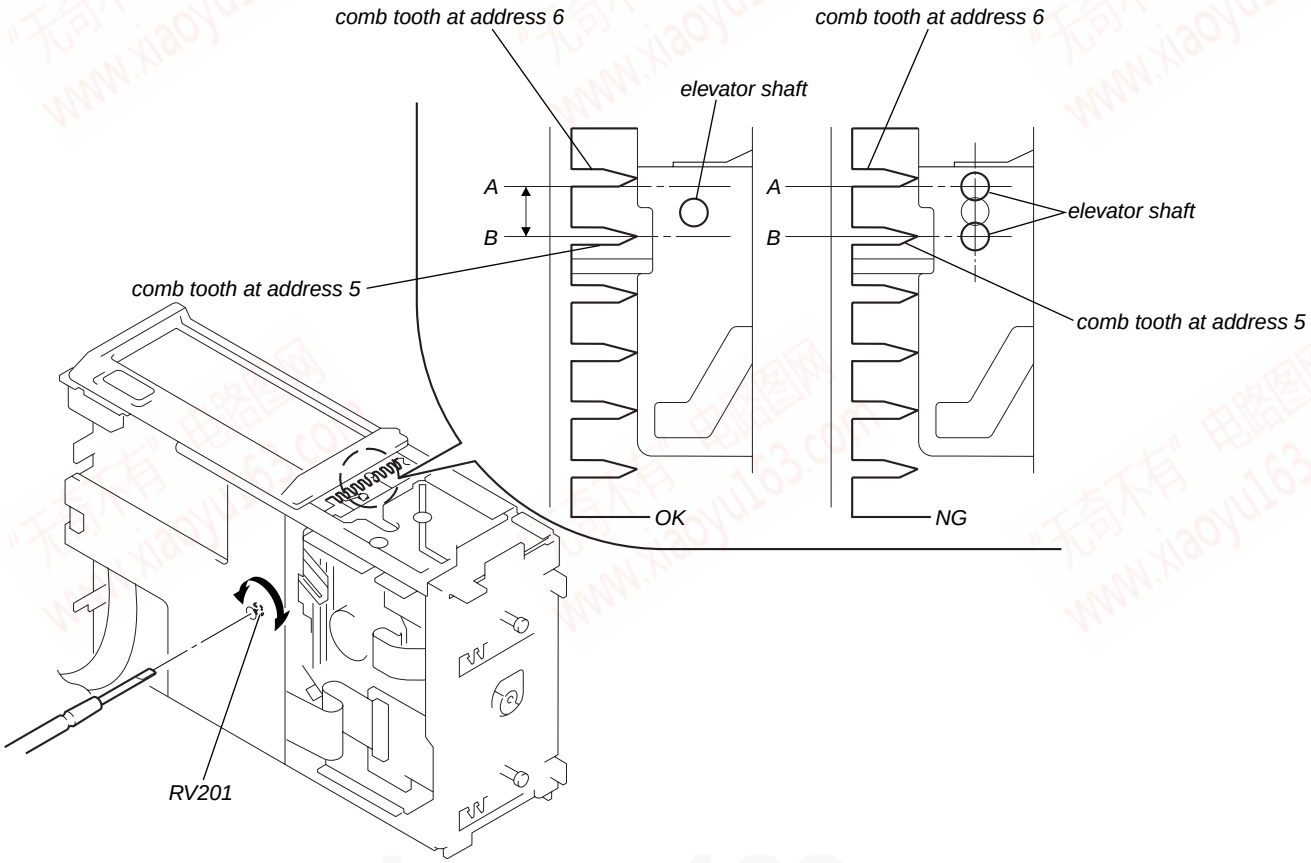
Connection:



Adjustment Method:

Note: Perform following the adjustment by the wired remote commander (RM-X83RF).

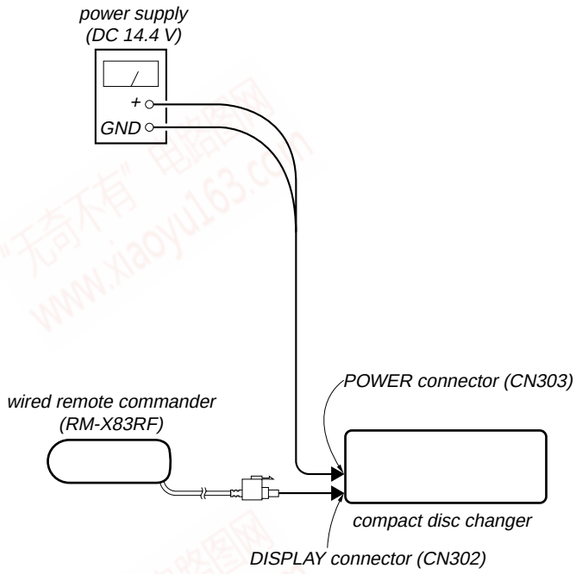
1. Load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply, and turn the power on.
3. Select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Select DISC 5 and DISC 6 alternately, so that the elevator shafts moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV201 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.



SECTION 5
ELECTRICAL CHECK

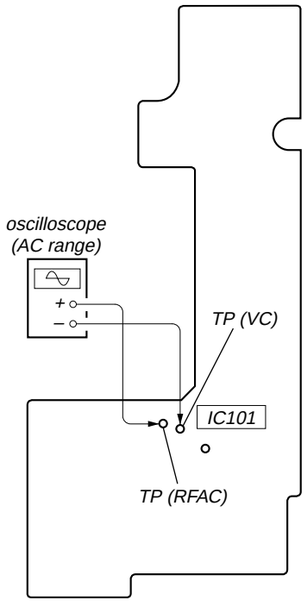
Note:
1. This adjustment is performed with the set placed horizontally.
2. Power supply voltage: DC14.4 V (more than 3 A).
3. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.

Connection:



FOCUS BIAS CHECK

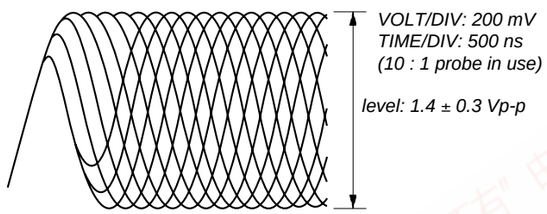
Connection:
– RF Board (Component Side) –



Procedure:
1. Connect the oscilloscope to TP (RFAC) and TP (VC) on the RF board.
2. Put the set into play mode by loading the disc (YEDS-18).
3. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:
Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

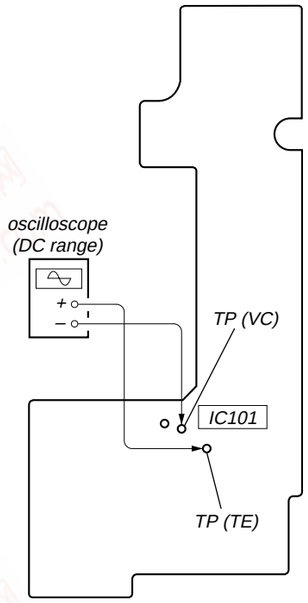
RF signal waveform



When observing the eye pattern, set the oscilloscope to AC range and raise the vertical sensitivity so that it may be easily seen.

TRACKING OFFSET CHECK

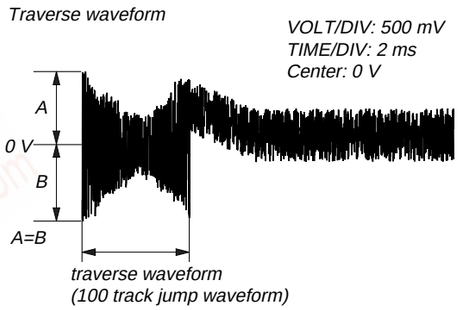
Connection:
– RF Board (Component Side) –



Procedure:
1. Connect the oscilloscope to TP (TE) and TP (VC) on the RF board.
2. Put the set into play mode by loading the disc (YEDS-18).
3. Rotate the I◀◀ AMS ▶▶I dial on the wired remote commander, and check the traverse waveform*.
4. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V dc, and check this level.

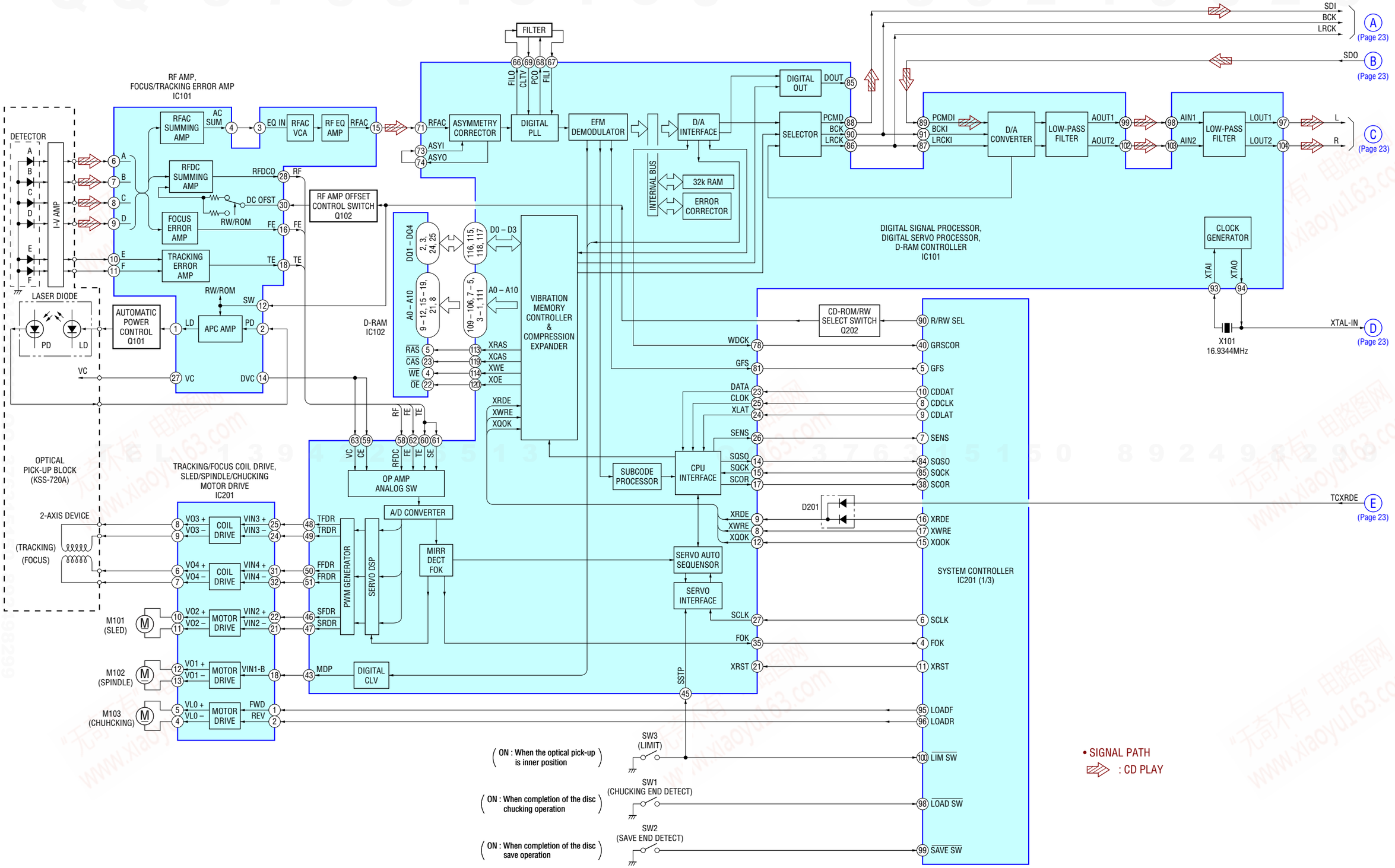
* Traverse waveform: This is the tracking error wave form appears when crossing the track.

Traverse waveform

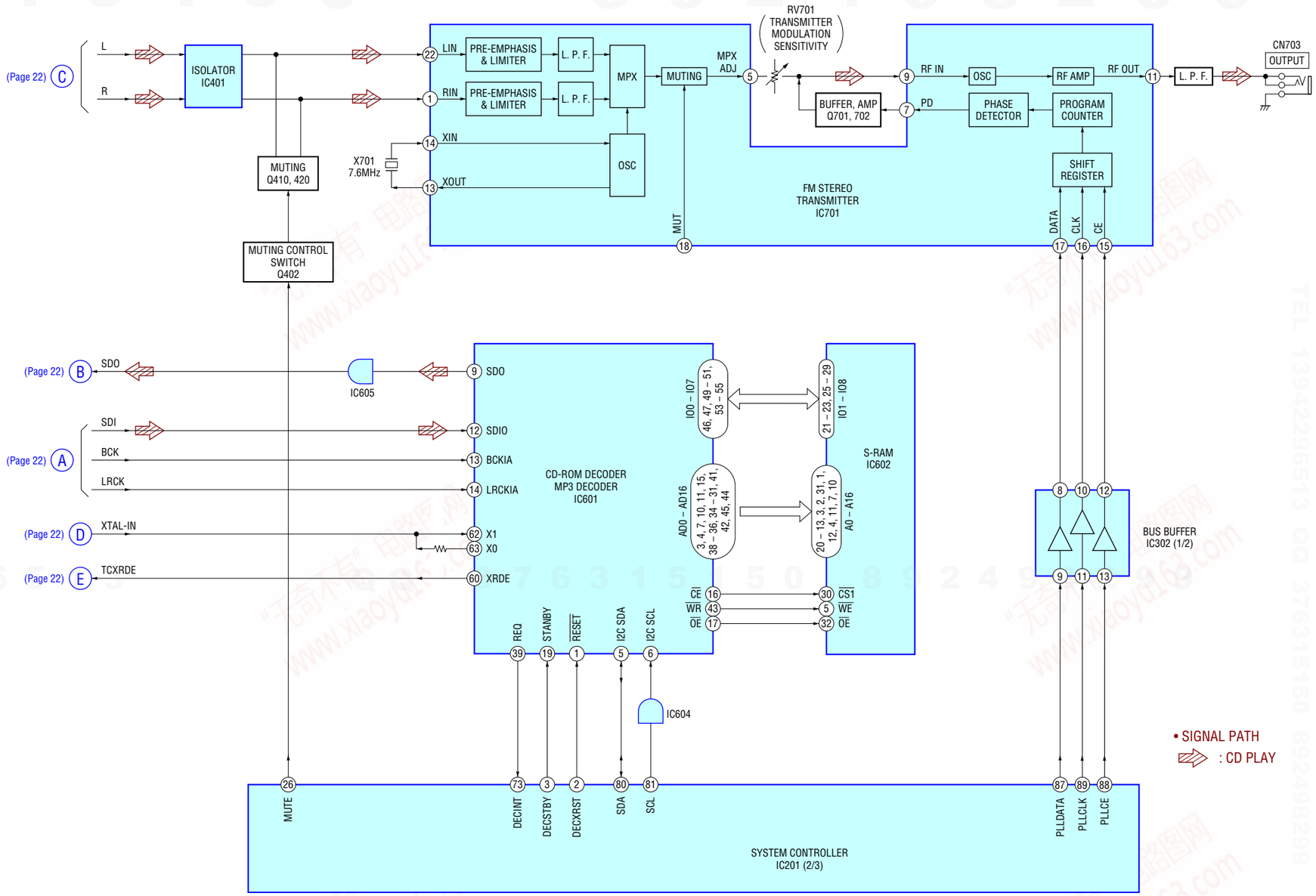


SECTION 6
DIAGRAMS

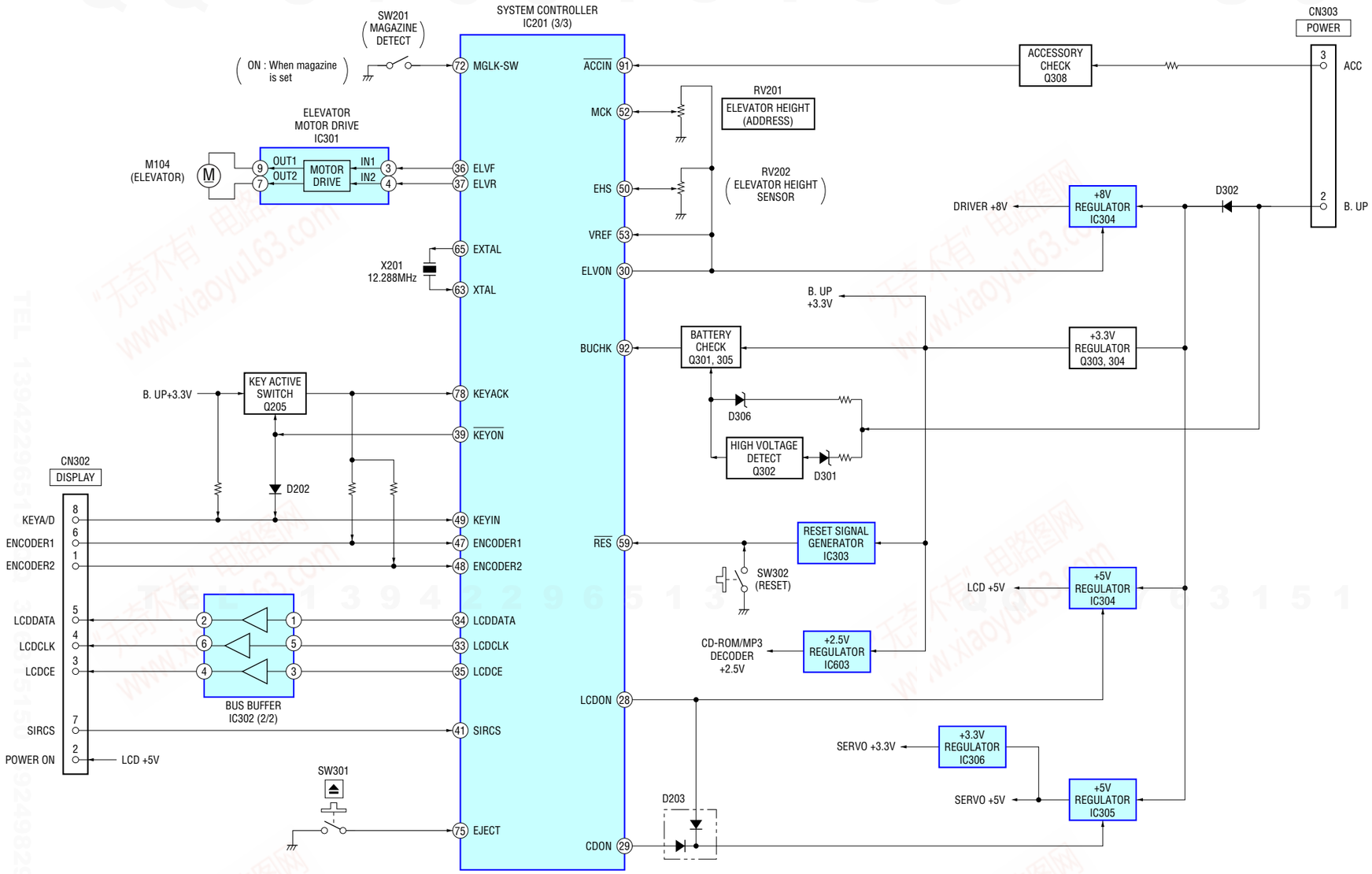
6-1. BLOCK DIAGRAM – SERVO Section –



6-2. BLOCK DIAGRAM – MAIN Section (1/2) –



6-3. BLOCK DIAGRAM – MAIN Section (2/2) –



6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

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

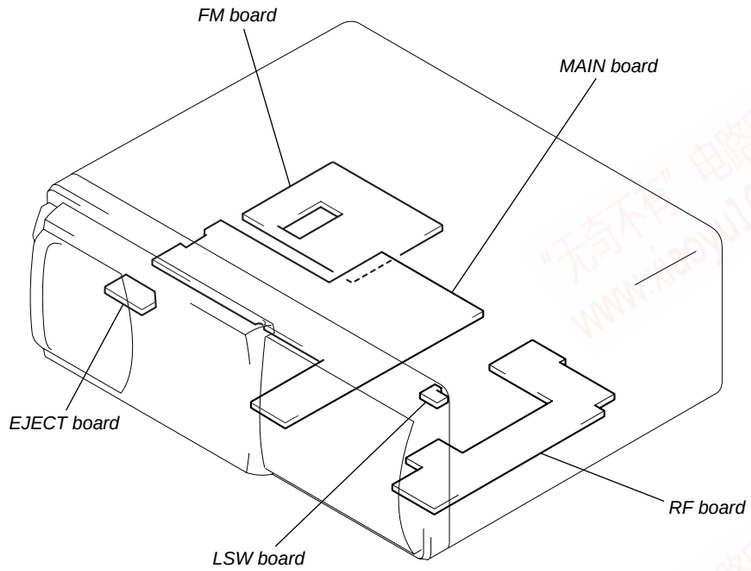
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground in CD play mode.
  no mark : CD PLAY
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY

- **Circuit Boards Location**

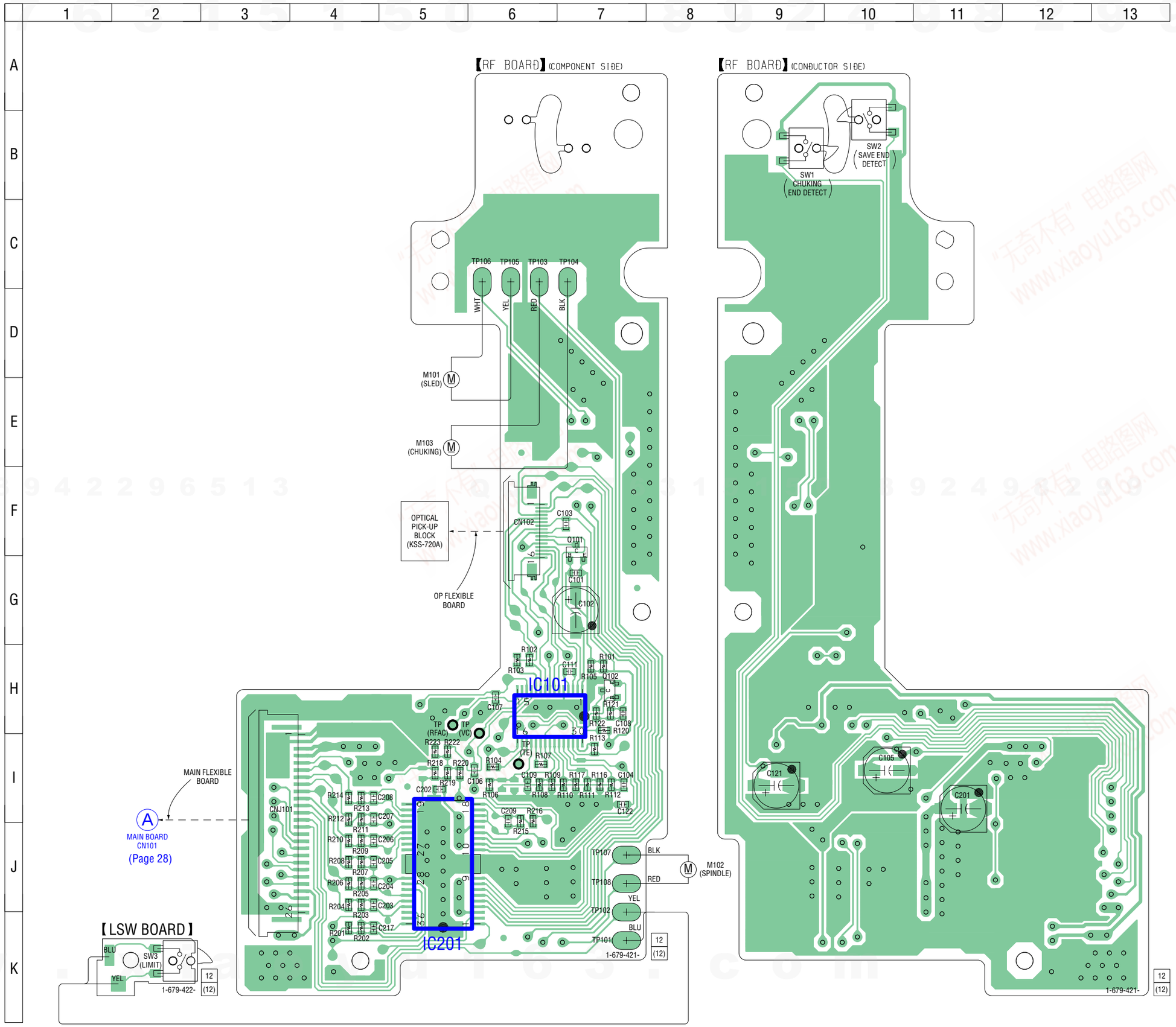


6-5. PRINTED WIRING BOARDS – RF/LSW Boards –

• See page 25 for Circuit Boards Location.

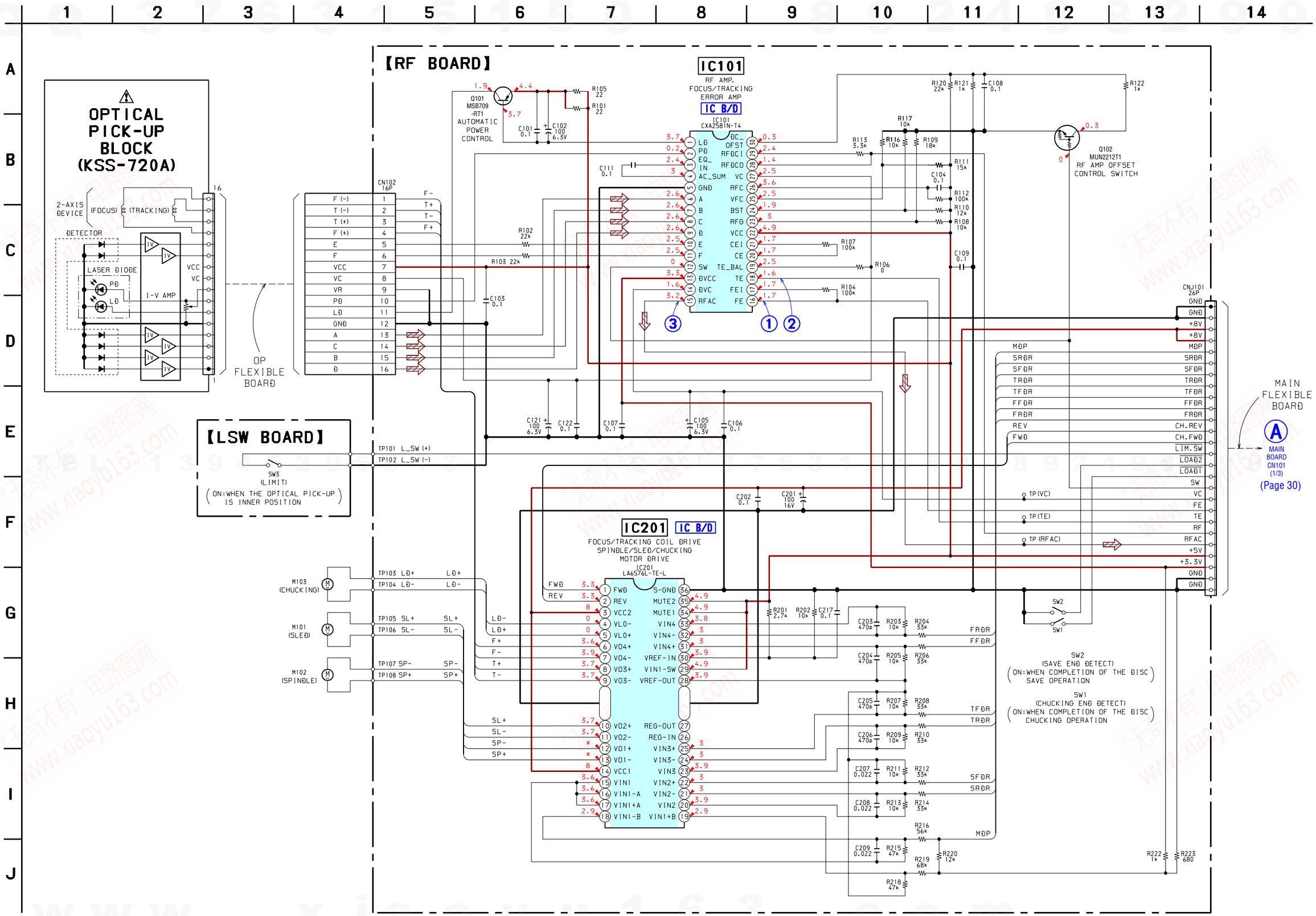
• **Semiconductor Location**

Ref. No.	Location
IC101	H-6
IC201	J-5
Q101	F-7
Q102	H-7



6-6. SCHEMATIC DIAGRAM – RF/LSW Boards –

• See page 33 for Waveforms. • See page 36 for IC Block Diagrams.



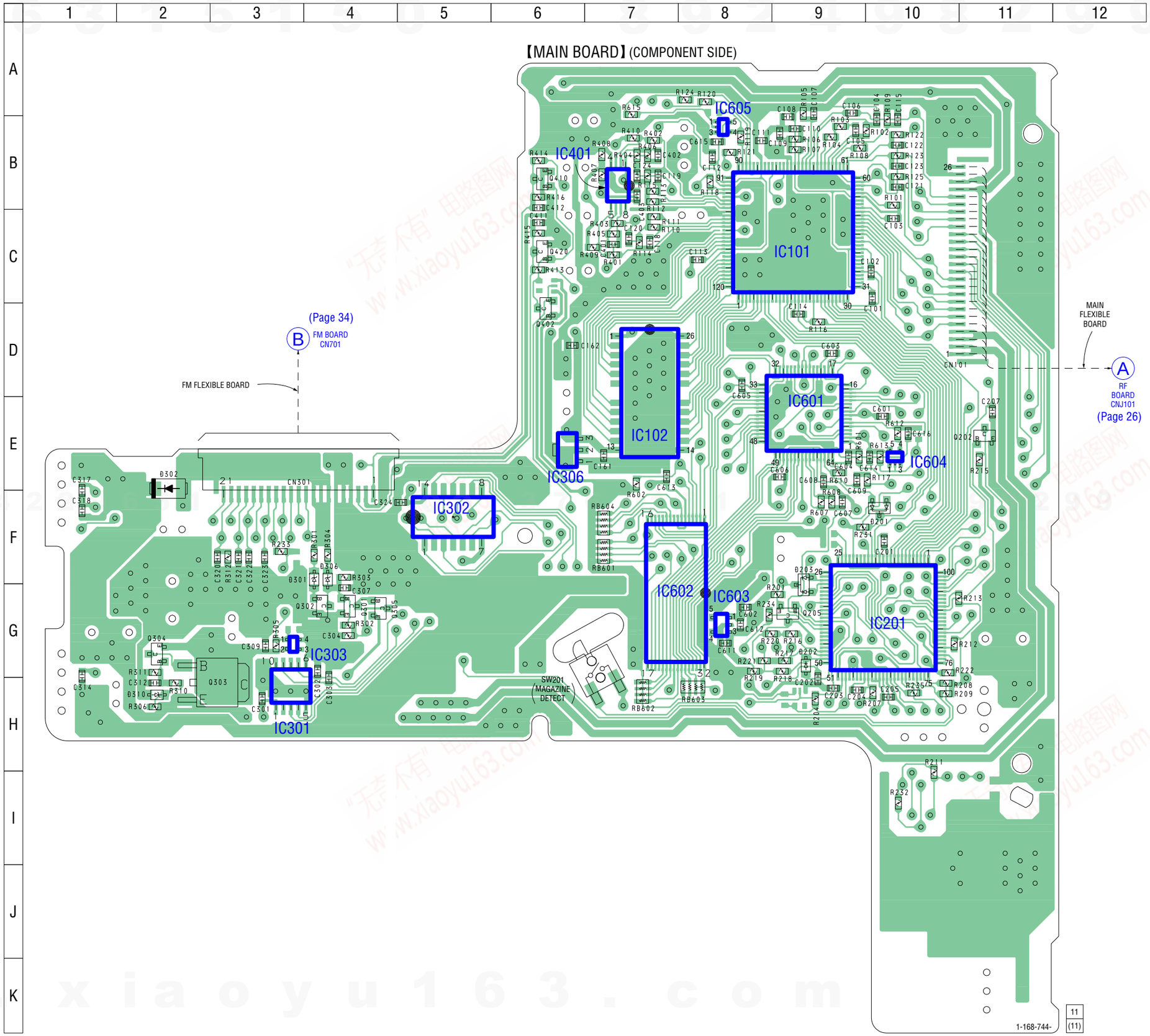
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-7. PRINTED WIRING BOARDS – MAIN Board (Component Side) –

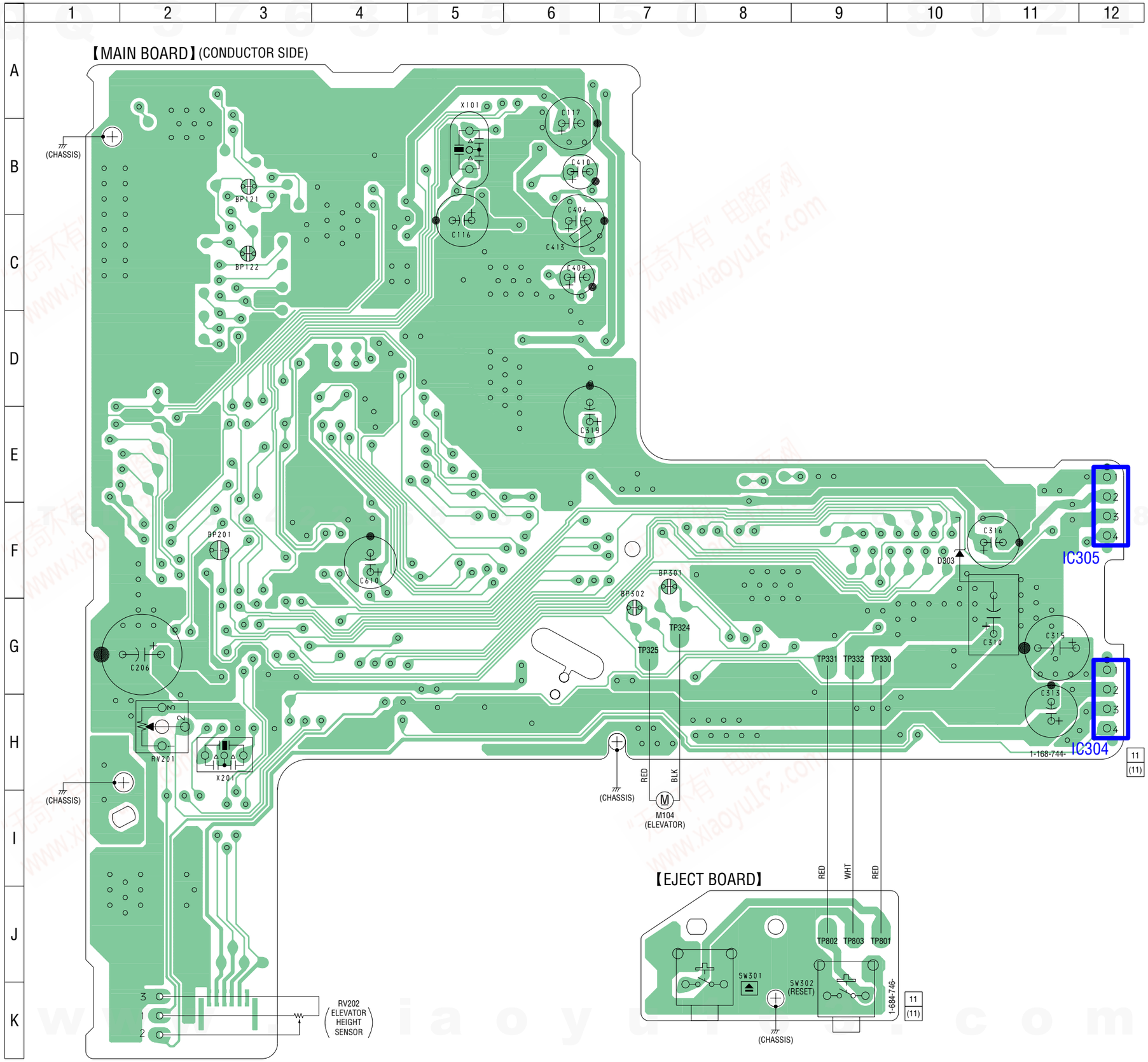
• See page 25 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D201	F-10
D202	G-9
D203	G-9
D301	F-4
D302	E-2
D306	F-4
D310	H-2
IC101	C-9
IC102	E-7
IC201	G-10
IC301	H-3
IC302	F-5
IC303	G-3
IC306	E-6
IC401	B-7
IC601	E-9
IC602	G-7
IC603	G-8
IC604	E-10
IC605	B-8
Q202	E-11
Q205	G-9
Q301	G-4
Q302	G-4
Q303	H-3
Q304	G-2
Q305	G-4
Q402	D-6
Q410	B-6
Q420	C-6



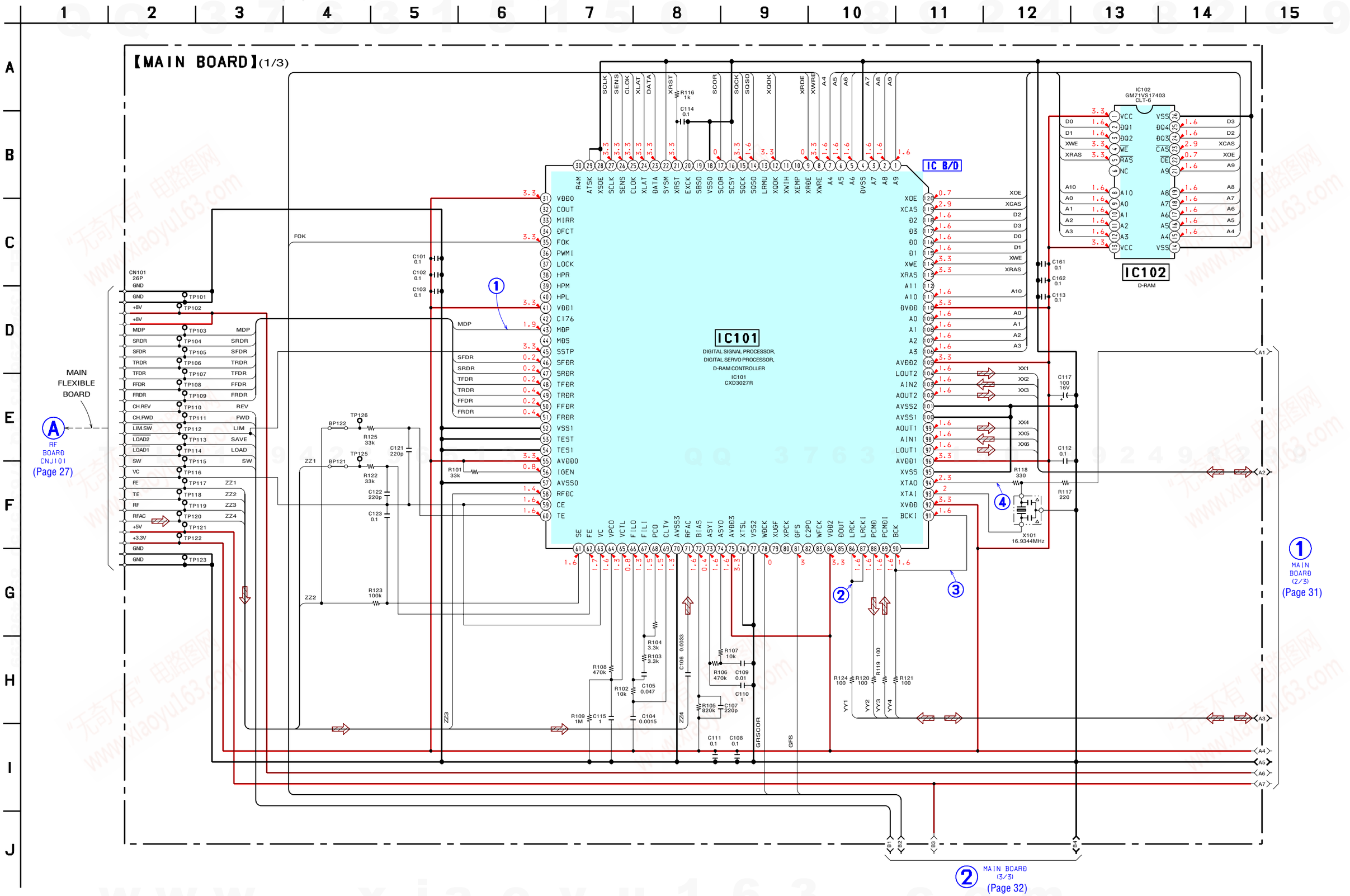
6-8. PRINTED WIRING BOARDS – MAIN (Conductor Side)/EJECT Boards – • See page 25 for Circuit Boards Location.



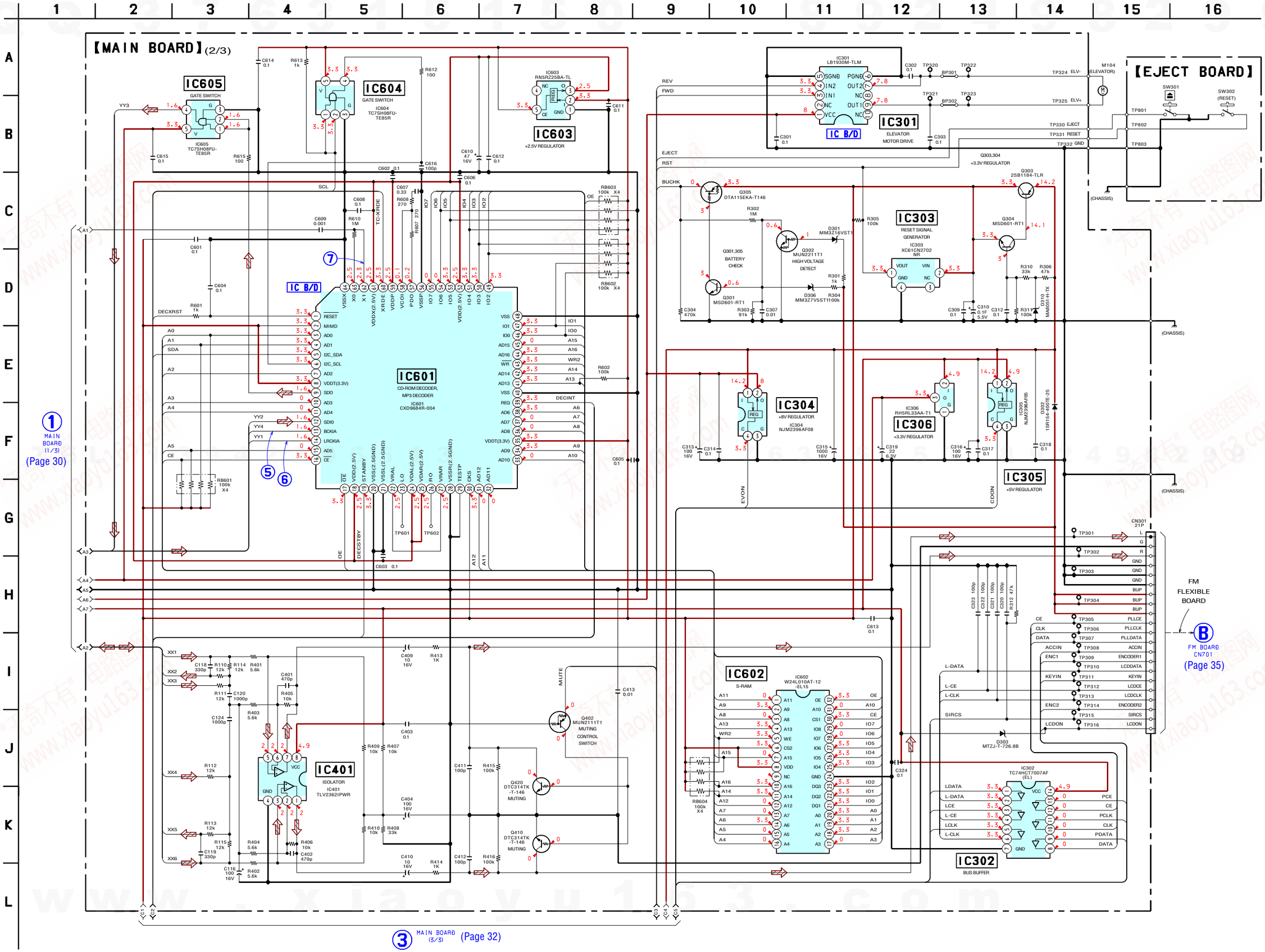
- **Semiconductor Location**

Ref. No.	Location
D303	F-10
IC304	H-12
IC305	F-12

6-9. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 33 for Waveforms. • See page 36 for IC Block Diagram.



6-10. SCHEMATIC DIAGRAM – MAIN (2/3)/EJECT Boards – • See page 33 for Waveforms. • See page 36 for IC Block Diagrams.



CDX-565MXRF

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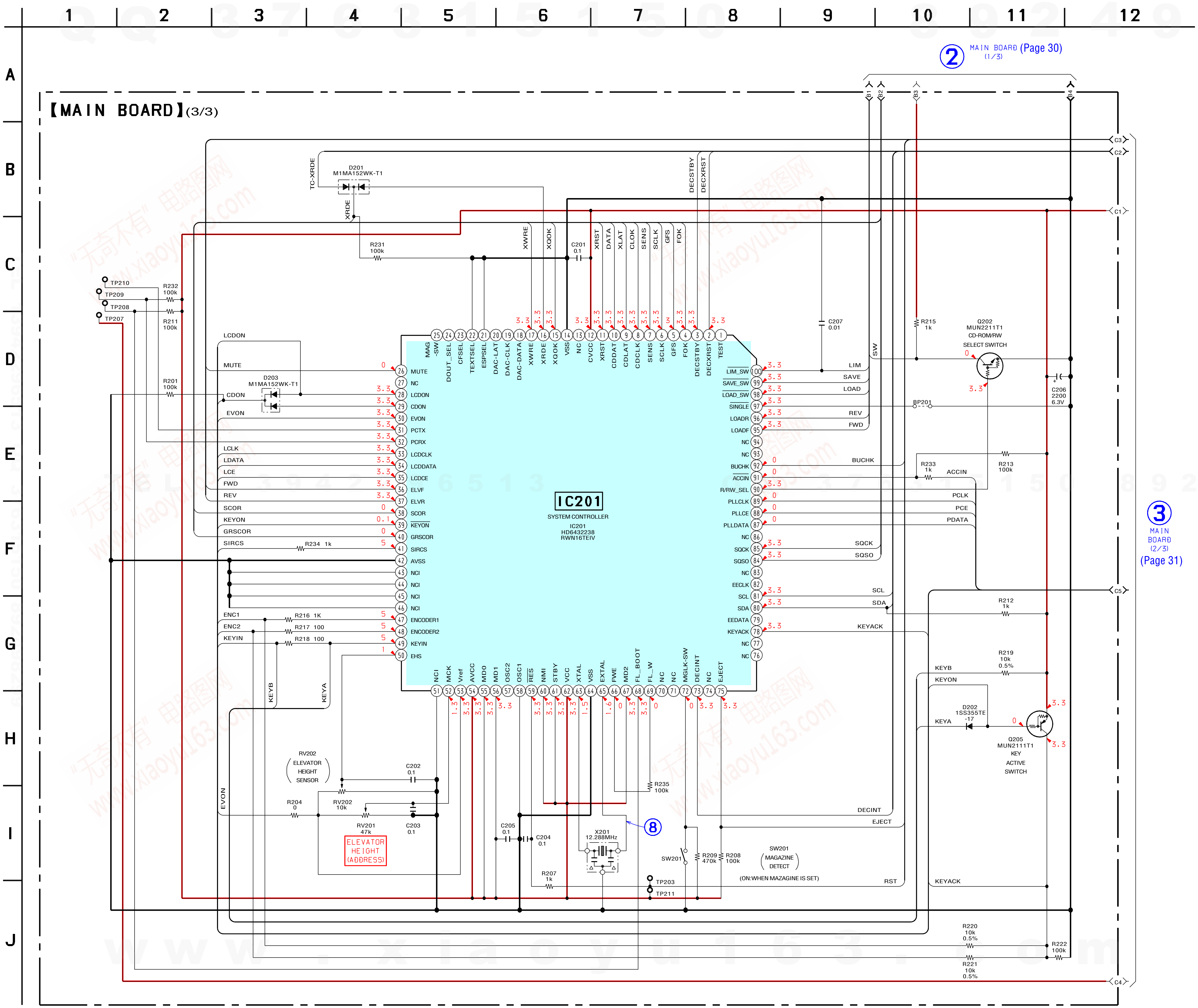
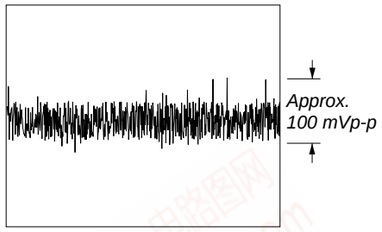
6-11. SCHEMATIC DIAGRAM – MAIN Board (3/3) – • See page 33 for Waveform.



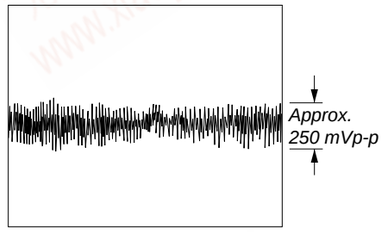
• **Waveforms**

– RF Board –

❶ IC101 ⑯ (FE)



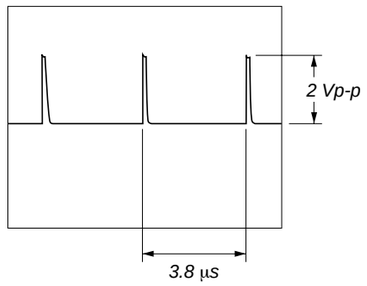
❷ IC101 ⑱ (TE)



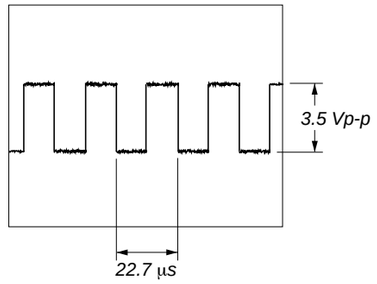
❸ IC101 ⑮ (RFAC)

– MAIN Board –

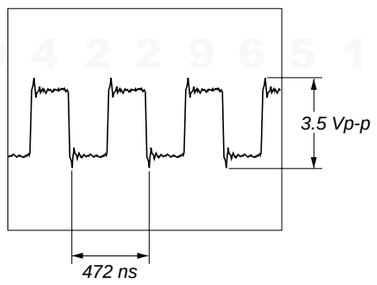
❶ IC101 ㊸ (MDP)



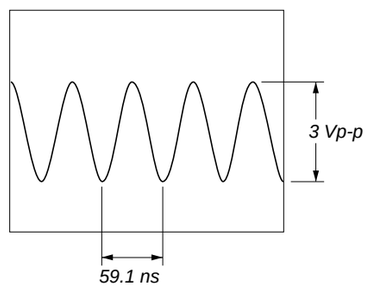
❷ IC101 ㊽ (LRCK), ㊼ (LRCKI)



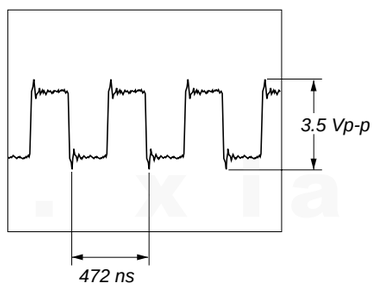
❸ IC101 ㊿ (BCK), ㉑(BCKI)



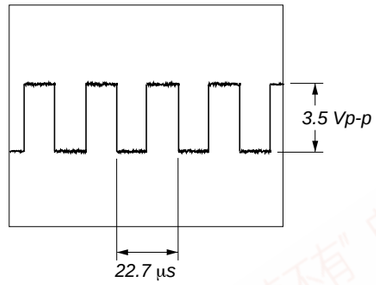
❹ IC101 ㊾ (XTAO)



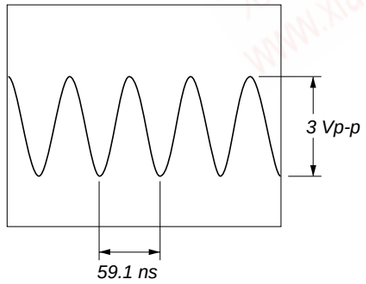
❺ IC601 ⑬ (BCKIA)



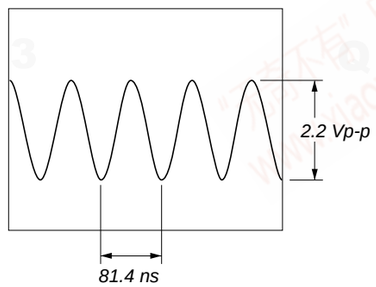
❻ IC601 ⑭ (LRCKIA)



❼ IC601 ㉜ (X1)

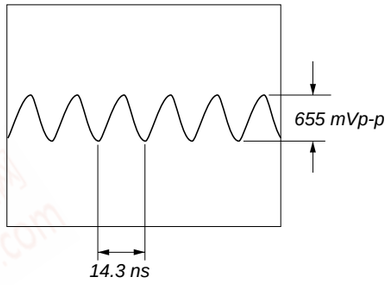


❽ IC201 ㊺ (EXTAL)

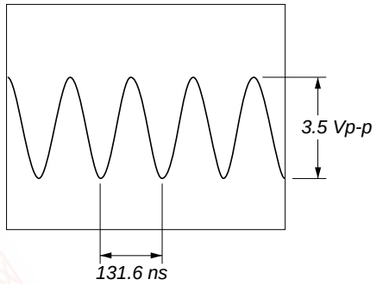


– FM Board –

❶ IC701 ⑪ (RF OUT)



❷ IC701 ⑬ (XOUT)



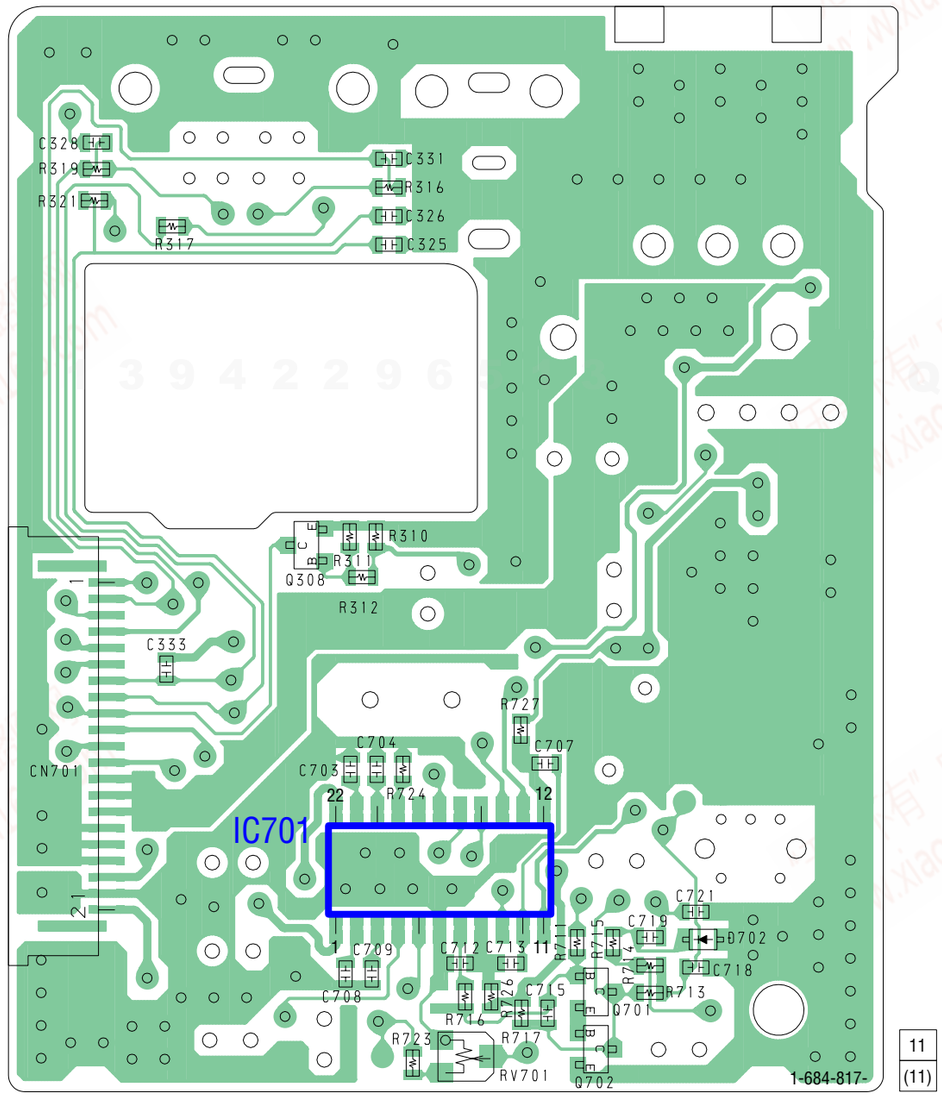
6-12. PRINTED WIRING BOARDS – FM Board –

• See page 25 for Circuit Boards Location.

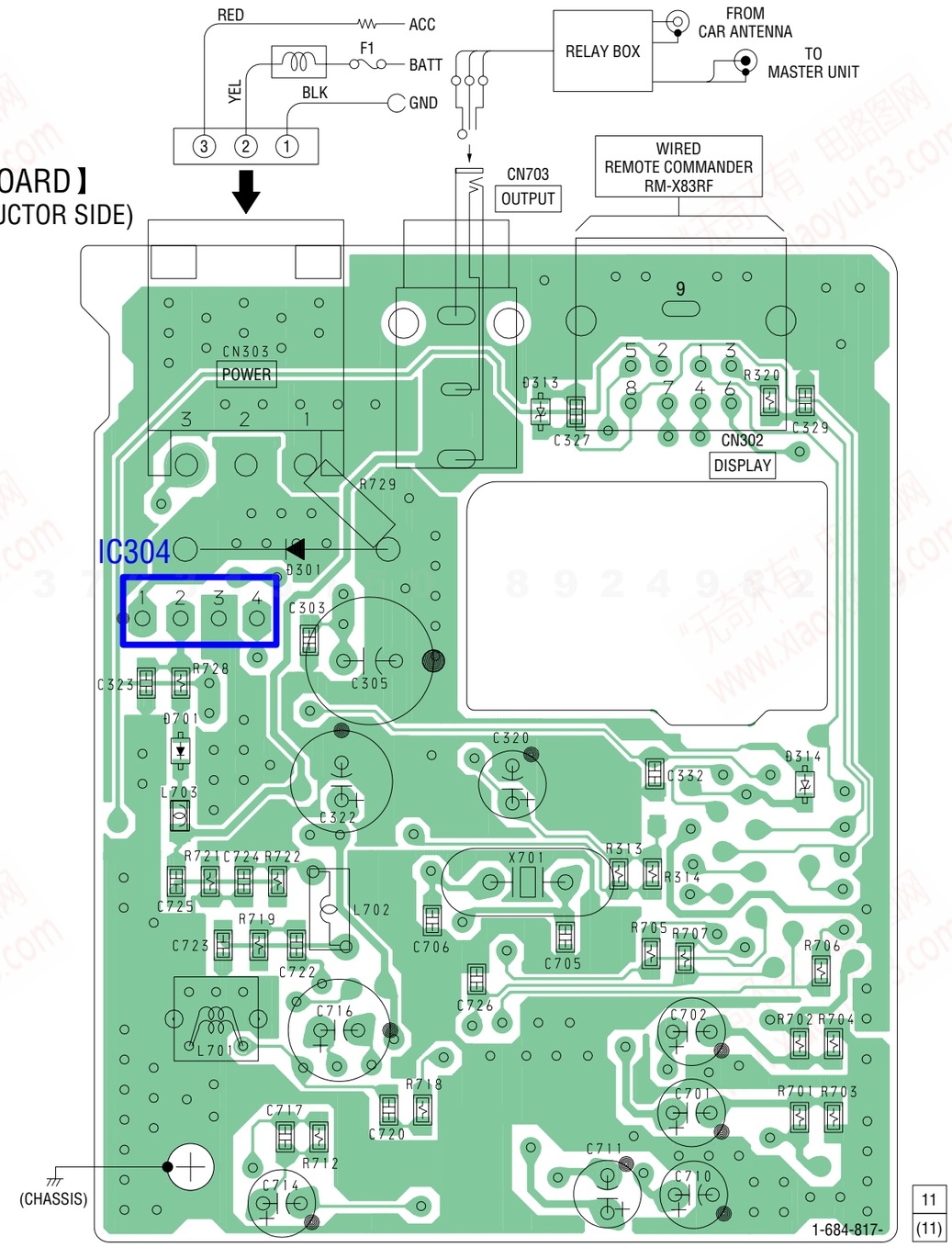
• **Semiconductor Location**

Ref. No.	Location
D301	D-8
D313	C-10
D314	E-11
D701	E-8
D702	G-5
IC304	D-8
IC701	F-4
Q308	E-3
Q701	G-5
Q702	G-5

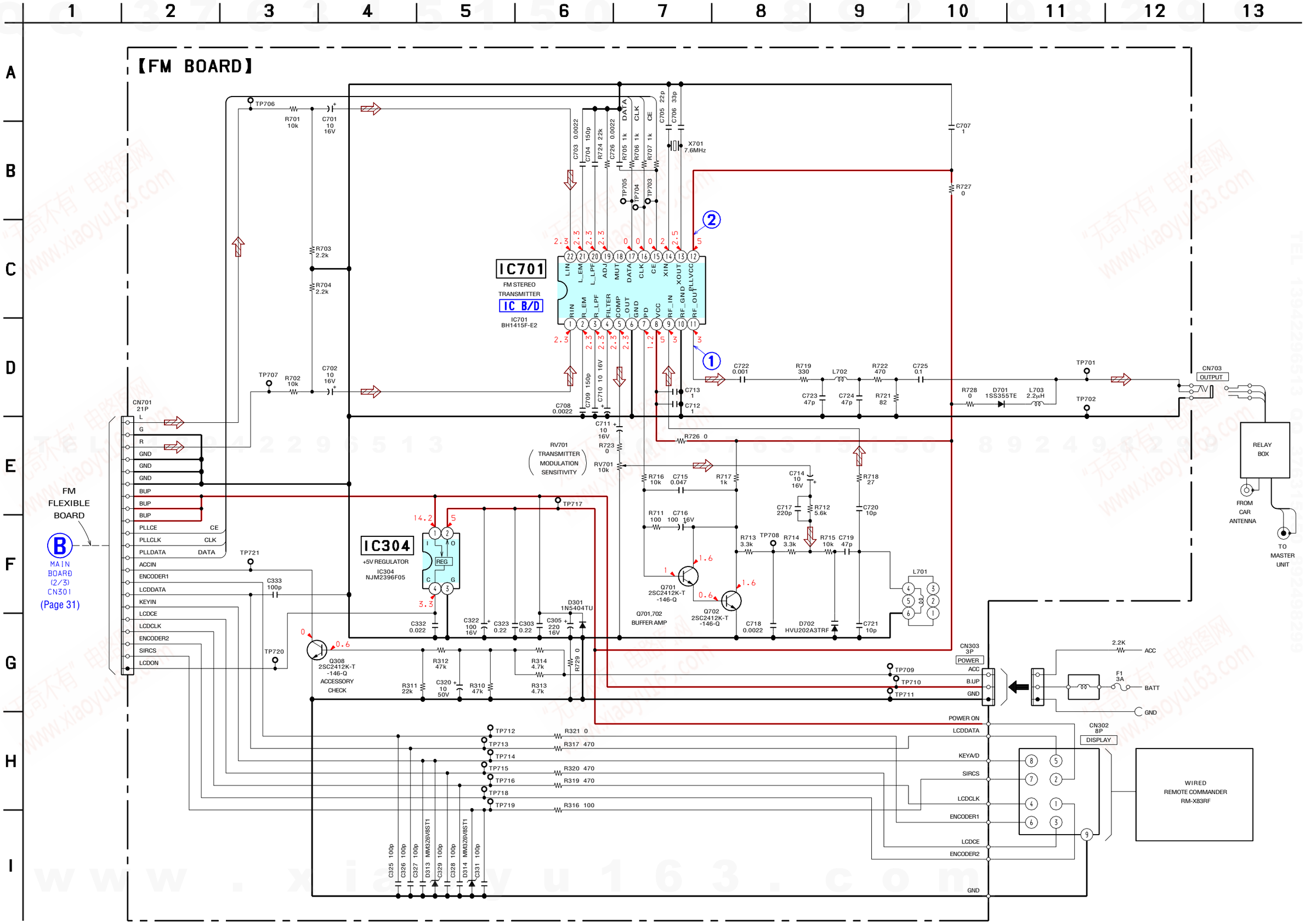
【FM BOARD】(COMPONENT SIDE)



【FM BOARD】(CONDUCTOR SIDE)

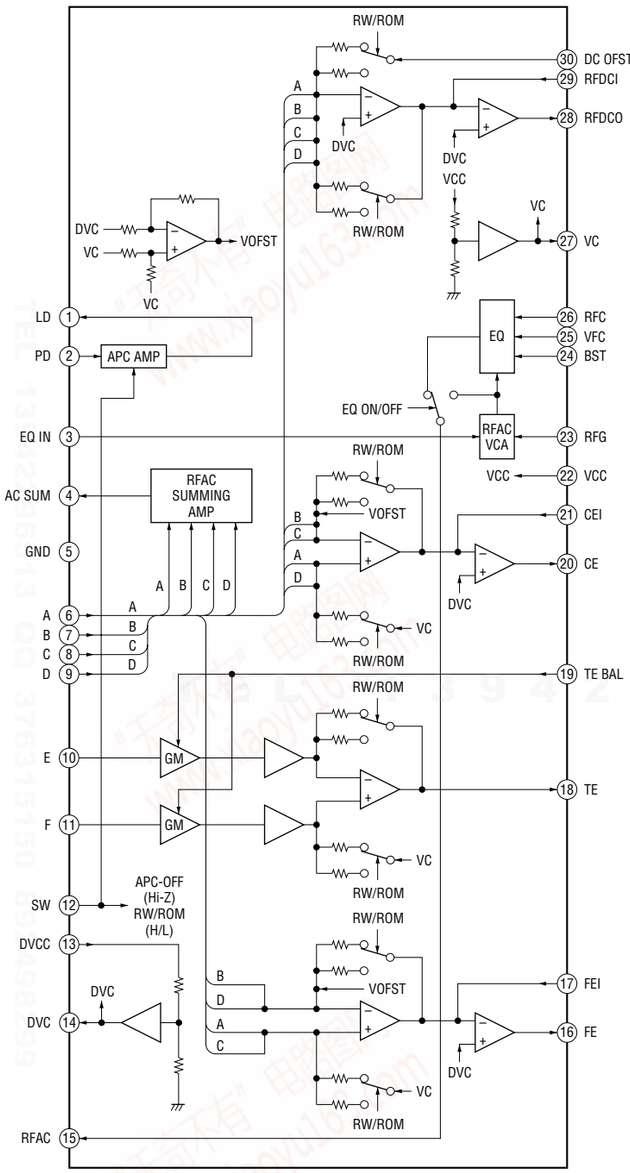


6-13. SCHEMATIC DIAGRAM – FM Board – • See page 33 for Waveforms. • See page 36 for IC Block Diagram.

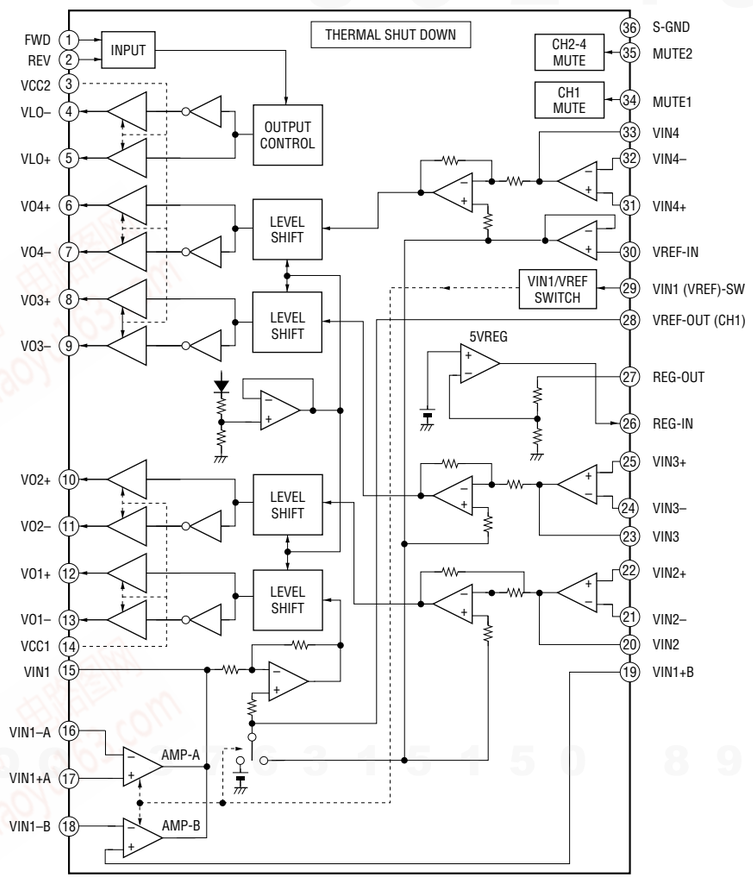


• **IC Block Diagrams**
– RF Board –

IC101 CXA2581N-T4

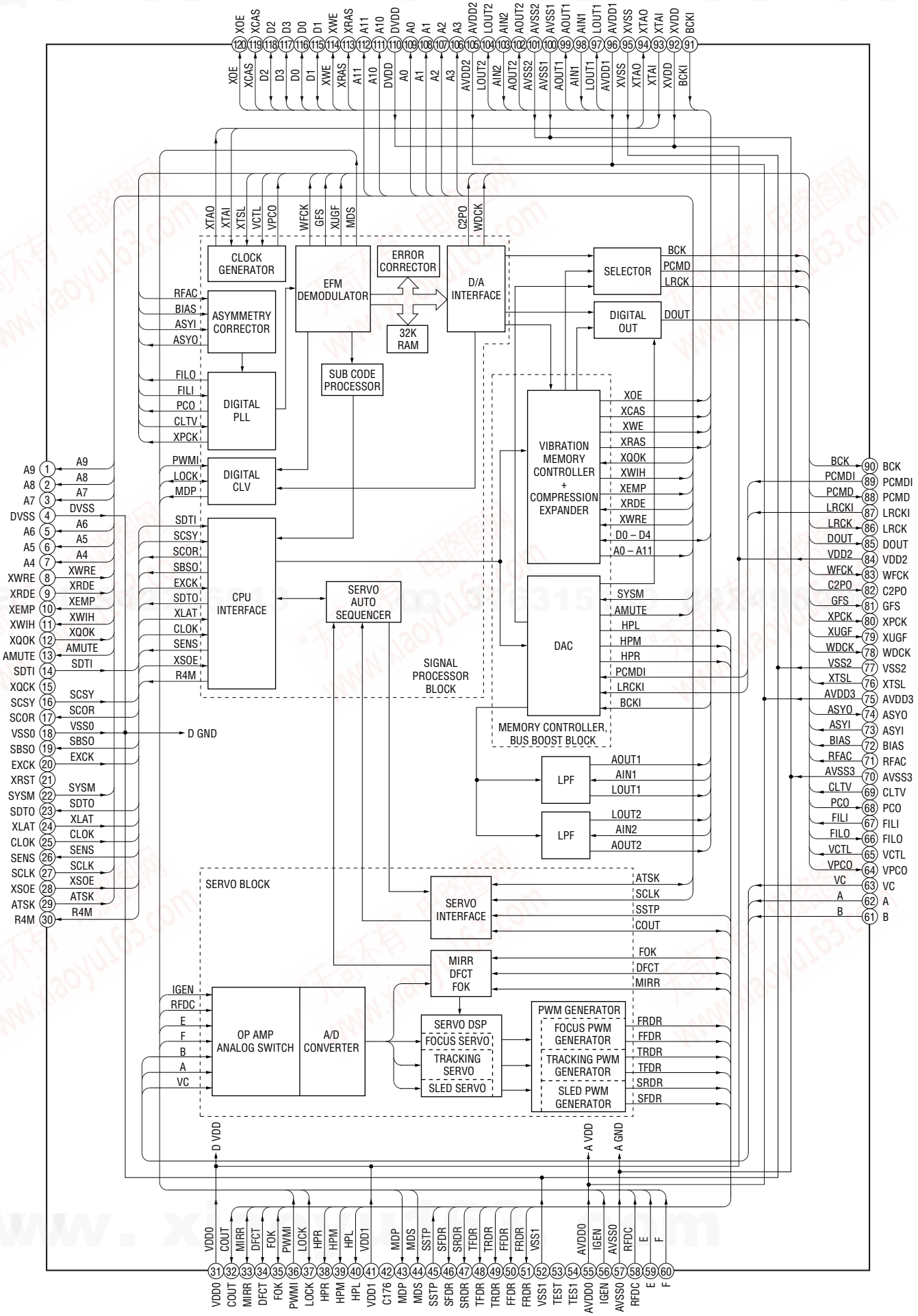


IC201 LA6576L-TE-L

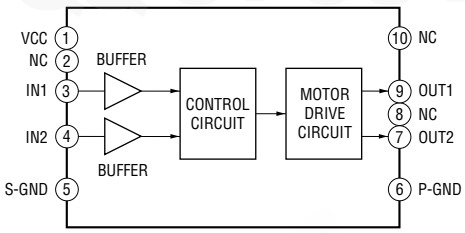


– MAIN Board –

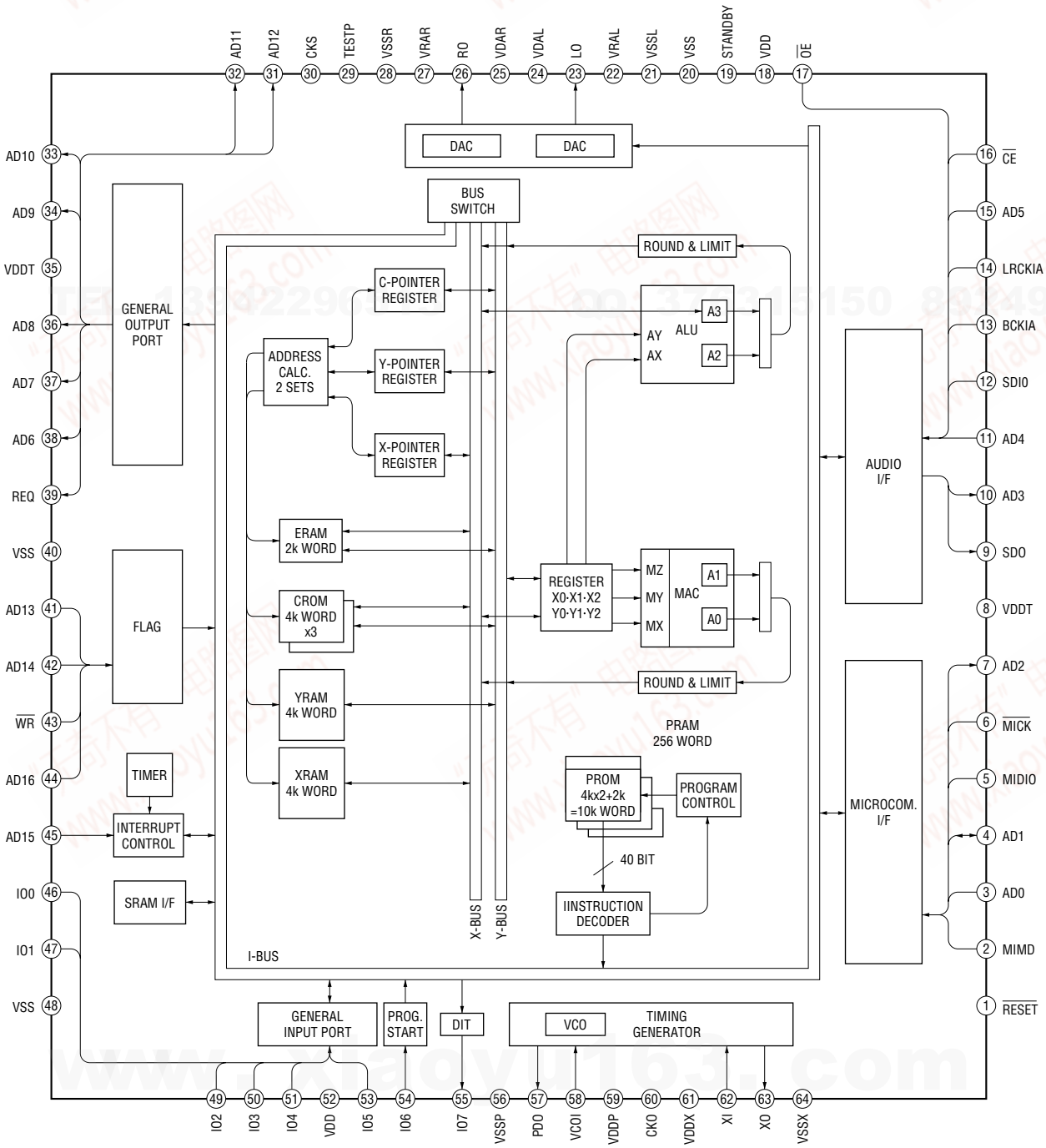
IC101 CXD3027R



IC301 LB1930M-TLM

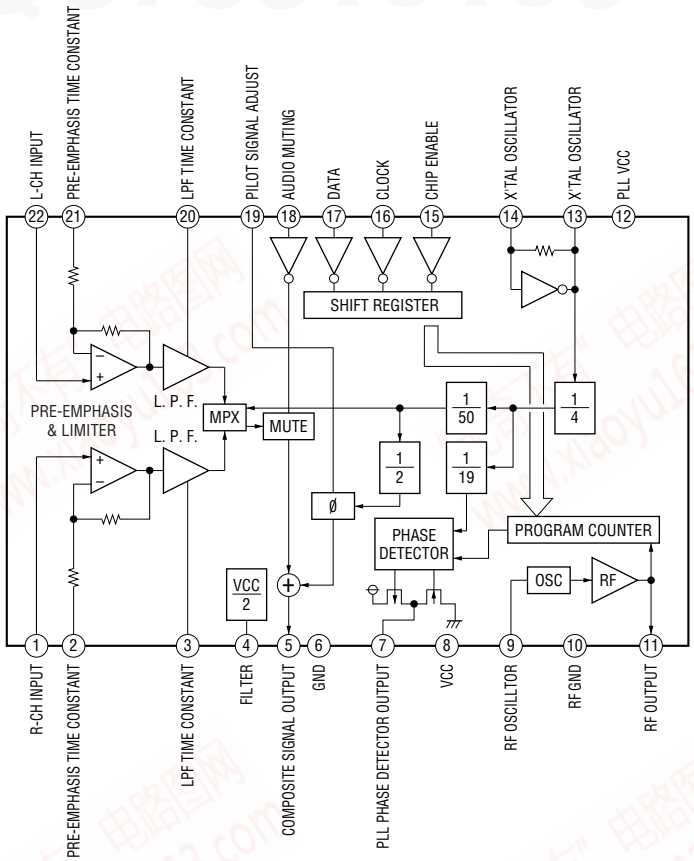


IC601 CXD9684R-004



– FM Board –

IC701 BH1415F-E2



6-14. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC201 HD6432238RWN16TEIV (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TEST	I	Test mode setting terminal "L": test mode Not used
2	DECXRST	O	Reset signal output to the CD-ROM/MP3 decoder "L": reset
3	DECSTBY	O	Standby mode control signal output to the CD-ROM/MP3 decoder "H": standby
4	FOK	I	Focus OK signal input from the DSP "L": NG, "H": OK
5	GFS	I	Guard frame sync signal input from the DSP "L": NG, "H": OK
6	SCLK	O	Serial data reading clock signal output to the DSP
7	SENS	I	Internal status signal (sense signal) input from the DSP
8	CDCLK	O	Serial data transfer clock signal output to the DSP
9	CDLAT	O	Serial data latch pulse signal output to the DSP
10	CDDAT	O	Serial data output to the DSP
11	XRST	O	System reset signal output to the DSP "L": reset
12	CVCC	—	Power supply terminal (+3.3V) (for system)
13	NC	O	Not used
14	VSS	—	Ground terminal
15	XQOK	O	Subcode Q OK pulse signal output to the DSP
16	XRDE	O	Read enable signal output to the DSP
17	XWRE	O	Write enable signal output to the DSP
18	DAC-DATA	O	Mode control data output terminal Not used
19	DAC-CLK	O	Mode control data transfer clock signal output terminal Not used
20	DAC-LAT	O	Mode control data latch pulse signal output terminal Not used
21	ESPSEL	I	ESP mode setting terminal "L": ESP on (fixed at "L" in this set)
22	TEXTSEL	I	CD text mode setting terminal "L": CD text on (fixed at "L" in this set)
23	CFSEL	I	Custom file on/off setting terminal "L": custom file on Not used
24	DOUT SEL	I	Input terminal for digital out on/off setting "L": digital out on Not used
25	MAG-SW	I	Magazine detect switch input terminal Not used
26	MUTE	O	Audio line muting on/off control signal output "H": muting on
27	NC	O	Not used
28	LCDON	O	The LCD in remote commander and FM transmitter section power supply on/off control signal output "H": power on
29	CDON	O	D/A convert and servo sections power supply on/off control signal output "H": power on
30	EVON	O	Mechanism deck section power supply on/off control signal output "H": power on
31	PCTX	O	PC connecting output terminal for UART Not used
32	PCRX	I	PC connecting input terminal for UART Not used
33	LCDCLK	O	Serial data transfer clock signal output to the LCD driver in remote commander
34	LCDDATA	O	Serial data output to the LCD driver in remote commander
35	LCDCE	O	Chip enable signal output to the LCD driver in remote commander "H" active
36	ELVF	O	Motor drive signal (elevator up direction) output to the elevator motor drive
37	ELVR	O	Motor drive signal (elevator down direction) output to the elevator motor drive
38	SCOR	I	Subcode sync (S0+S1) detection signal input from the DSP
39	$\overline{\text{KEYON}}$	O	Power supply on/off control signal output for the A/D converter "L": power on
40	GRSCOR	I	Subcode sync (S0+S1) detection signal input from the DSP
41	SIRCS	I	SIRCS signal input from the remote commander
42	AVSS	—	Ground terminal (for A/D converter)
43 to 46	NCI	I	Not used
47, 48	ENCODER1, ENCODER2	I	Dial pulse input from the rotary encoder in remote commander

Pin No.	Pin Name	I/O	Description
49	KEYIN	I	Key input (A/D input) from the remote commander
50	EHS	I	Elevator height position detection signal input from the elevator height sensor (A/D input)
51	NCI	I	Not used
52	MCK	I	Input of detection signal for the fine adjustment (elevator height (address) adjustment) of elevator height position (A/D input)
53	VREF	I	Reference voltage (+3.3V) input terminal (for A/D converter)
54	AVCC	—	Power supply terminal (+3.3V) (for A/D converter)
55, 56	MD0, MD1	I	Setting terminal for the CPU operational mode "H": single chip mode (fixed at "H" in this set)
57	OSC2	O	Sub system clock output terminal Not used
58	OSC1	I	Sub system clock input terminal Not used (fixed at "L")
59	$\overline{\text{RES}}$	I	System reset signal input from the reset switch and reset signal generator "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
60	NMI	O	Not used (fixed at "H")
61	STBY	O	Standby mode control signal output terminal Not used (fixed at "H")
62	VCC	—	Power supply terminal (+3.3V)
63	XTAL	I	Main system clock input terminal (12.288 MHz)
64	VSS	—	Ground terminal
65	EXTAL	O	Main system clock output terminal (12.288 MHz)
66	FWE	I	Flash memory data write enable signal input terminal
67	MD2	I	Setting terminal for the CPU operational mode "H": single chip mode (fixed at "H" in this set)
68	FL BOOT	I	Flash memory data write control signal input terminal "L": active Not used
69	FL W	O	Flash memory data write control signal output (connecting FWE (pin 66))
70, 71	NC	O	Not used
72	MGLK-SW	I	Magazine in/out detect switch input terminal "L": magazine in
73	DECINT	I	Interrupt signal input from the CD-ROM/MP3 decoder
74	NC	O	Not used
75	EJECT	I	Eject switch input terminal "L": active
76	NC	O	Not used
77	NC	I	Not used
78	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept from the remote commander in the power off status
79	EEDATA	I/O	Two-way data bus with the EEPROM Not used
80	SDA	I/O	I2C interface data input/output with the CD-ROM/MP3 decoder
81	SCL	O	I2C interface data transfer clock signal output to the CD-ROM/MP3 decoder
82	EECLK	O	Serial data transfer clock signal output to the EEPROM Not used
83	NC	O	Not used
84	SQSO	I	Subcode Q data input from the DSP
85	SQCK	O	Subcode Q data reading clock signal output to the DSP
86	NC	O	Not used
87	PLLDATA	O	Serial data output to the FM stereo transmitter
88	PLLCE	O	Chip enable signal output to the FM stereo transmitter "H": active
89	PLLCLK	O	Serial data transfer clock signal output to the FM stereo transmitter
90	R/RW SEL	O	CD-ROM/RW selection signal output "L": CD-RW, "H": CD-ROM
91	$\overline{\text{ACCIN}}$	I	Accessory detection signal input "L": accessory on
92	BUCHK	I	Battery detection signal input "H": low battery (Normally: "L")
93, 94	NC	O	Not used
95	LOADF	O	Motor drive signal (load chucking direction) output to the chucking motor drive

Pin No.	Pin Name	I/O	Description
96	LOADR	O	Motor drive signal (save direction) output to the chucking motor drive
97	$\overline{\text{SINGLE}}$	I	Setting terminal for the single disc/multiple discs mode "L": single disc mode, "H": multiple discs mode (fixed at "H" in this set)
98	$\overline{\text{LOAD SW}}$	I	Chucking end detect switch input terminal "L": When completion of the disc chucking operation
99	$\overline{\text{SAVE SW}}$	I	Save end detect switch input terminal "L": When completion of the disc save operation
100	$\overline{\text{LIM SW}}$	I	Sled limit in detect switch input terminal "L": When the optical pick-up is inner position

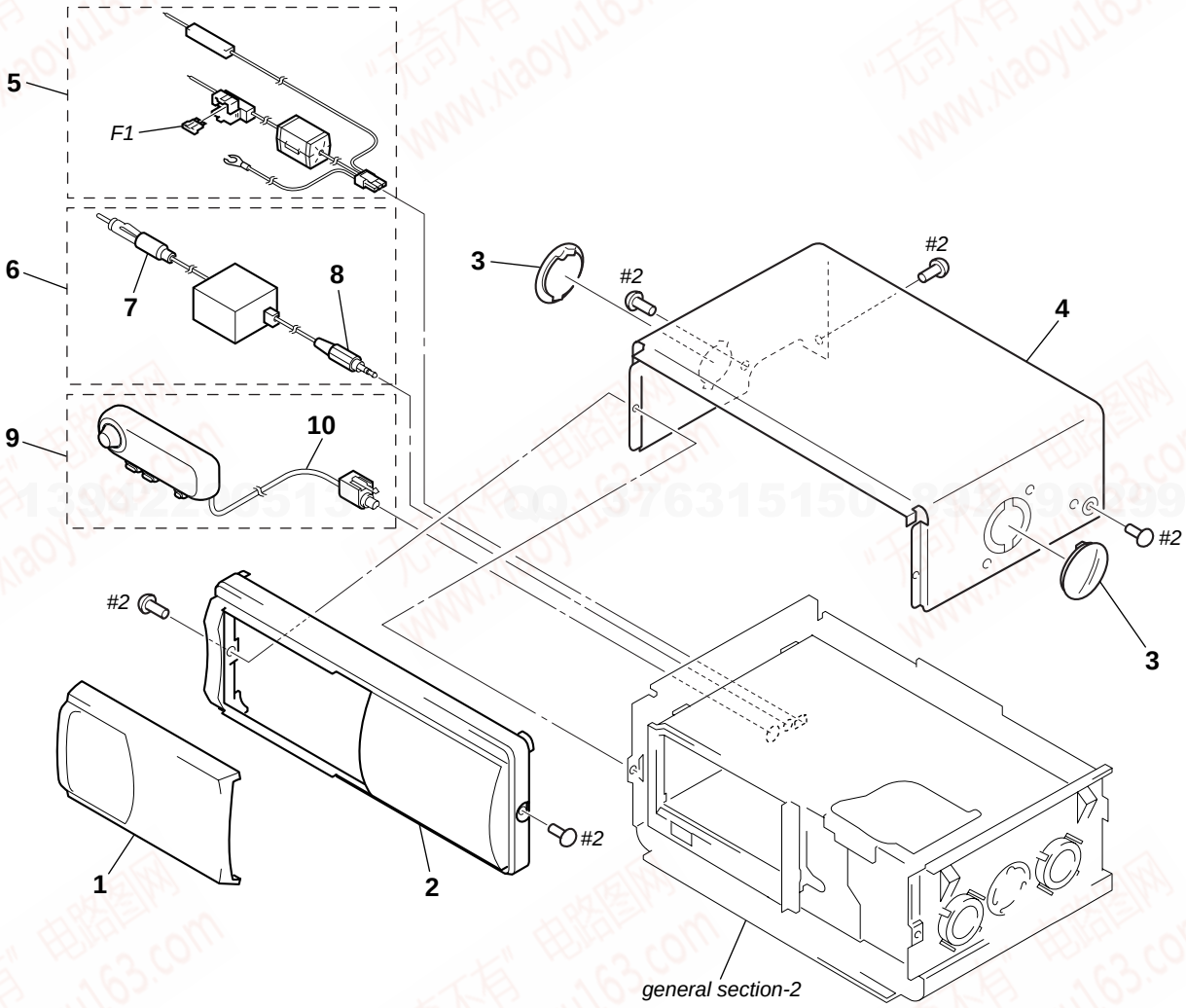
SECTION 7
EXPLODED VIEWS

NOTE:
- -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
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

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

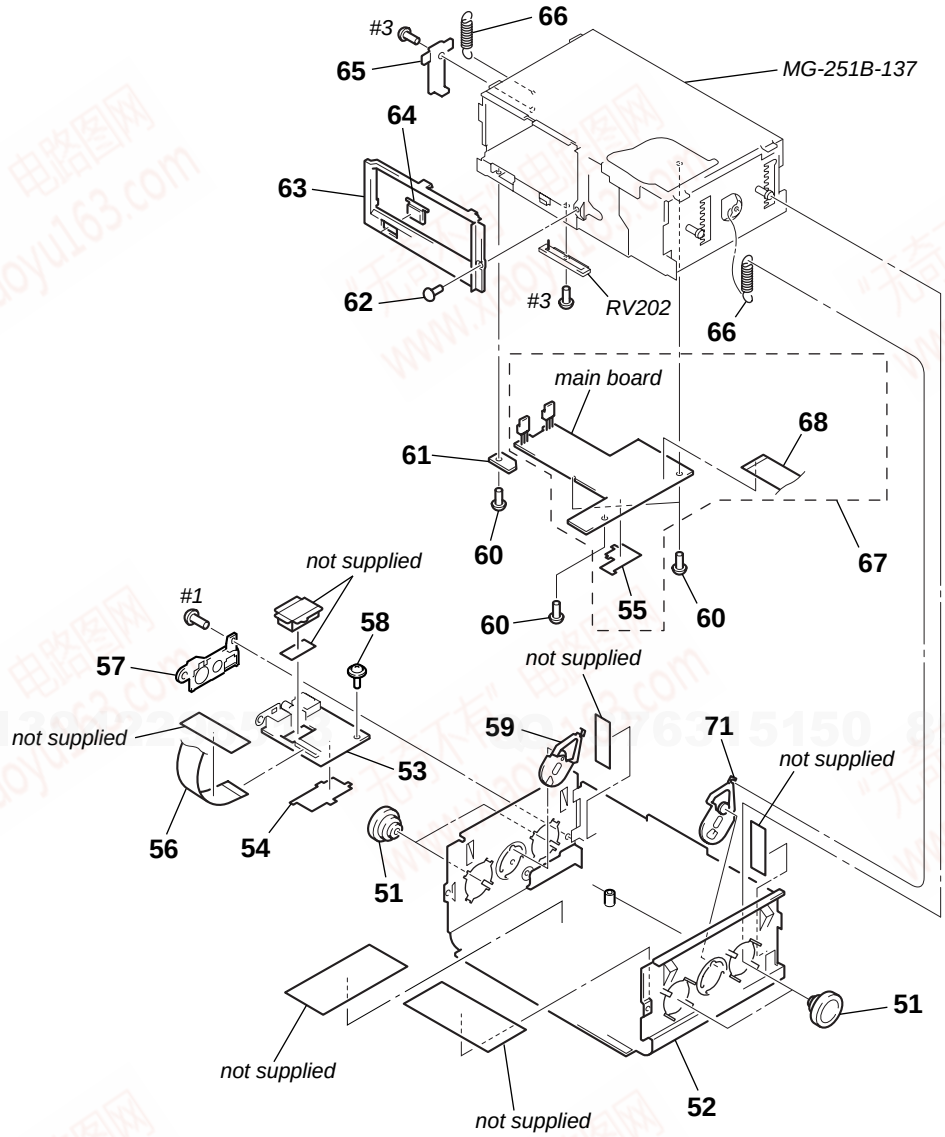
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. GENERAL SECTION-1



Ref. No.	Part No.	Description	Remark
1	X-3381-752-1	DOOR (M) ASSY	
2	3-229-226-21	PANEL, FRONT	
3	3-047-886-11	LEVER (FLT. 838)	
4	3-237-609-21	CASE (UPPER. T)	
5	1-823-973-12	CORD (WITH CONNECTOR) (POWER)	
6	A-3301-964-A	RELAY BOX ASSY	
7	1-792-045-21	CORD (WITH CONNECTOR)(ANT-OUT) (for RELAY BOX ASSY)	
8	1-792-044-23	CORD (WITH CONNECTOR) (CD-OUT) (for RELAY BOX ASSY)	
9	A-3220-842-A	WIRED COMMANDER (RM-X83RF)	
10	1-823-920-22	CABLE WITH CONNECTOR 8P (for RM-X83RF)	
F1	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A/32V)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	

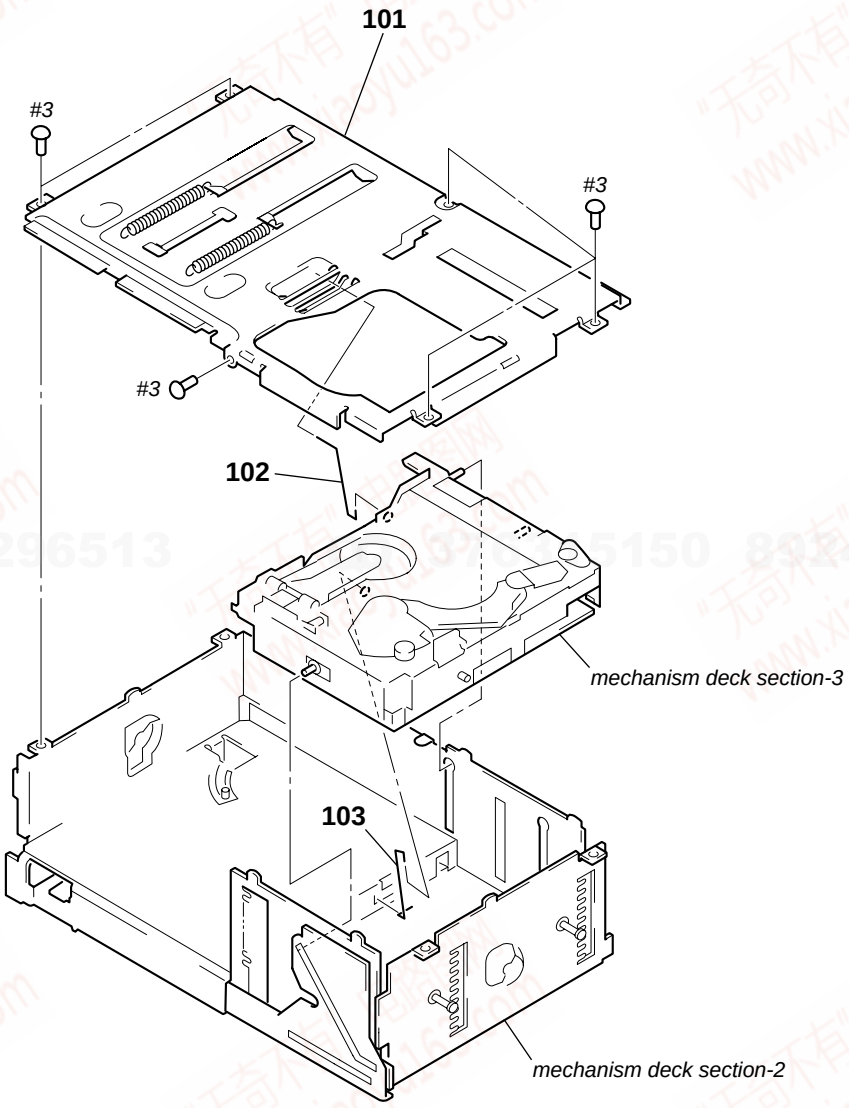
7-2. GENERAL SECTION-2



Ref. No.	Part No.	Description	Remark
51	3-047-852-01	DAMPER (T)	
52	X-3381-753-1	CASE (LOWER T) ASSY	
53	A-3274-259-A	FM BOARD, COMPLETE	
* 54	3-046-989-03	PLATE (FM), SHIELD	
55	3-244-890-01	PLATE (MAIN) (MP3), SHIELD	
56	1-676-735-11	FM FLEXIBLE BOARD	
57	3-042-999-11	COVER (FM CONNECTOR. T)	
58	3-913-406-11	SCREW (GROUND)	
59	X-3375-357-1	ARM (FLT) ASSY	
60	3-935-636-11	SCREW (FP)	
61	1-684-746-11	EJECT BOARD	
62	3-042-244-11	SCREW (T)	

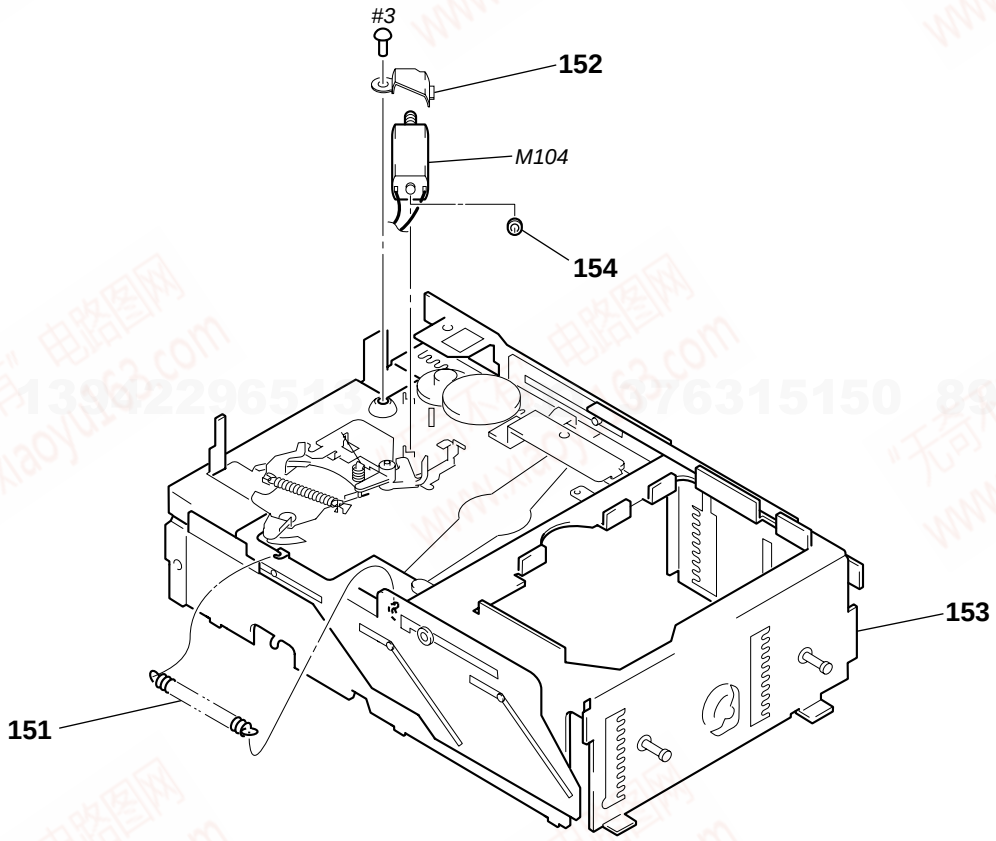
Ref. No.	Part No.	Description	Remark
63	3-041-218-21	ESCUTCHEON (T)	
64	3-022-007-02	BUTTON (EJT) (⏏)	
* 65	3-022-012-01	HEAT SINK (T)	
66	3-038-166-01	SPRING (FL), TENSION COIL	
67	A-3274-255-A	MAIN BOARD, COMPLETE	
68	1-676-339-12	MAIN FLEXIBLE BOARD	
71	X-3375-360-2	ARM (FRT) ASSY	
RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	
#1	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#3	7-685-781-09	SCREW +PTT 2X4 (S)	

7-3. MECHANISM DECK SECTION-1 (MG-251B-137)



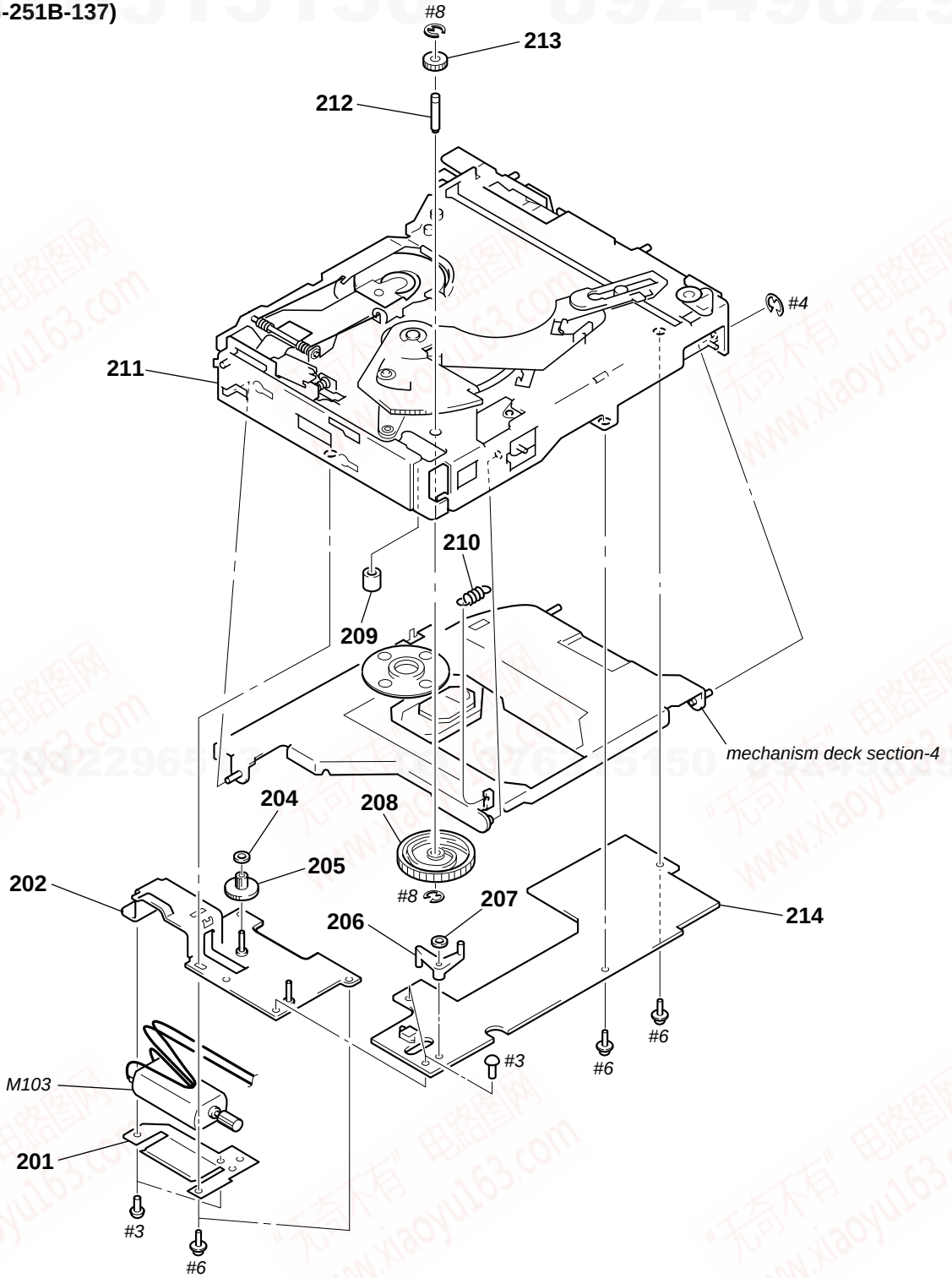
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3378-091-1	CHASSIS (U. S) SUB ASSY		103	3-011-997-01	SPRING (STOPPER. LOWER)	
102	3-024-161-01	SPRING (SUT)		#3	7-685-781-09	SCREW +PTT 2X4 (S)	

7-4. MECHANISM DECK SECTION-2 (MG-251B-137)



Ref. No.	Part No.	Description	Remark
151	3-024-170-01	SPRING (SB), TENSION	
* 152	3-040-790-02	BRACKET (EVM. S)	
153	X-3378-092-7	CHASSIS (D. S) SUB ASSY	
* 154	3-014-685-01	SPACER (MO)	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	
#3	7-685-781-09	SCREW +PTT 2X4 (S)	

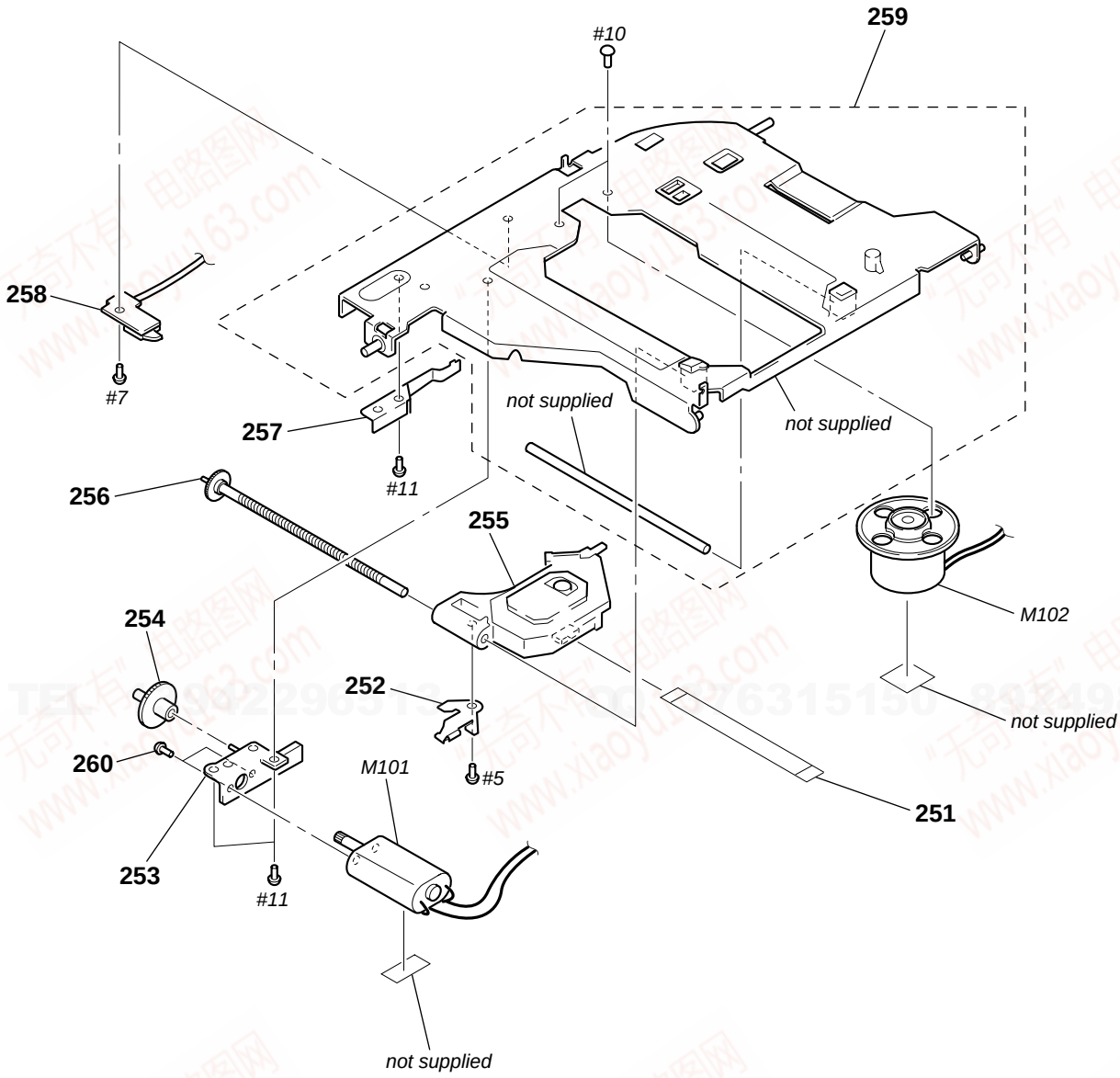
7-5. MECHANISM DECK SECTION-3 (MG-251B-137)



Ref. No.	Part No.	Description	Remark
* 201	3-024-150-01	RETAINER (CHM)	
* 202	X-3378-080-1	BRACKET (CHM. D) ASSY	
204	3-321-813-01	WASHER, COTTER POLYETHYLENE	
205	3-017-139-01	GEAR (WORM LOAD A)	
206	3-022-839-02	ARM (NSW)	
207	3-573-936-00	STOPPER, REEL	
208	X-3373-552-1	GEAR (LOAD 1) ASSY	
209	3-010-252-11	ROLLER (CRE)	
210	3-010-268-01	SPRING (DH), TENSION	

Ref. No.	Part No.	Description	Remark
* 211	A-3290-194-M	MAIN ASSY, CHASSIS (EVY)	
212	3-010-254-11	SHAFT (ROTARY PREVENTION C)	
213	3-010-253-01	GEAR (LOMINI)	
* 214	A-3326-947-A	RF BOARD, COMPLETE	
M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)	
#3	7-685-781-09	SCREW +PTT 2X4 (S)	
#4	7-624-104-04	STOP RING 2.0, TYPE-E	
#6	7-628-253-00	SCREW +PS 2X4	
#8	7-624-102-04	STOP RING 1.5, TYPE-E	

7-6. MECHANISM DECK SECTION-4 (MG-251B-137)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
251	1-676-341-11	OP FLEXIBLE BOARD	
252	3-025-743-01	SPRING (FEED), LEAF	
253	X-3378-101-2	HOLDER (SLED. S) ASSY	
254	3-931-832-01	GEAR (SL MIDWAY)	
⚠255	8-820-103-11	OPTICAL PICK-UP KSS-720A/C-RP	
256	A-3291-669-A	SHAFT (FEED) ASSY	
257	3-010-263-01	DETENT (SHAFT THRUST)	
* 258	1-679-422-12	LSW BOARD	

Ref. No.	Part No.	Description	Remark
259	A-3301-954-C	BASE (OPT. S) (J) ASSY	
260	3-241-673-01	SCREW (SM), SPECIAL	
M101	A-3315-151-A	SLED MOTOR ASSY (251)	
M102	A-3301-998-A	SPINDLE MOTOR (S) SUB ASSY	
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5	
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3	
#11	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	

SECTION 8
ELECTRICAL PARTS LIST

EJECT | FM

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

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

Les composants identifiés par une marque ⚠ sont critiquens 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
	1-684-746-11	EJECT BOARD			
		**********			
		< SWITCH >			
SW301	1-692-431-21	SWITCH, TACTILE (⏏)			
SW302	1-692-431-21	SWITCH, TACTILE (RESET)			
**********					
	A-3274-259-A	FM BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C303	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C305	1-128-499-11	ELECT	220uF	20%	16V
C320	1-124-233-11	ELECT	10uF	20%	50V
C322	1-125-972-11	ELECT	100uF	20%	16V
C323	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C325	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C326	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C327	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C328	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C329	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C331	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C332	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C333	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C701	1-124-233-11	ELECT	10uF	20%	16V
C702	1-124-233-11	ELECT	10uF	20%	16V
C703	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C704	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C705	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C706	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C707	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C708	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C709	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C710	1-124-233-11	ELECT	10uF	20%	16V
C711	1-124-233-11	ELECT	10uF	20%	16V
C712	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C713	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C714	1-124-233-11	ELECT	10uF	20%	16V
C715	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C716	1-126-382-11	ELECT	100uF	20%	16V
C717	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C718	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C719	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C720	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C721	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C722	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C723	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C724	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C725	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C726	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
		< CONNECTOR >			
CN302	1-794-066-11	CONNECTOR, MINIATURE DIN 8P (DISPLAY)			
CN303	1-793-286-11	PIN, CONNECTOR (PC BOARD) 3P (POWER)			
CN701	1-784-829-21	CONNECTOR, FPC 21P			
CN703	1-566-822-41	JACK (OUTPUT)			
		< DIODE >			
D301	8-719-049-38	DIODE 1N5404TU			
D313	8-719-056-83	DIODE MM3Z6V8ST1			
D314	8-719-056-83	DIODE MM3Z6V8ST1			
D701	8-719-988-61	DIODE 1SS355TE-17			
D702	8-719-058-78	DIODE HVU202A3TRF			
		< IC >			
IC304	6-702-146-01	IC NJM2396F05			
IC701	8-759-680-25	IC BH1415F-E2			
		< COIL >			
L701	1-419-467-11	COIL, IFT			
L702	1-411-845-11	COIL, AIR-CORE			
L703	1-410-997-42	INDUCTOR	2.2uH		
		< TRANSISTOR >			
Q308	8-729-120-28	TRANSISTOR	2SC2412K-T-146-Q		
Q701	8-729-120-28	TRANSISTOR	2SC2412K-T-146-Q		
Q702	8-729-120-28	TRANSISTOR	2SC2412K-T-146-Q		
		< RESISTOR >			
R310	1-216-841-11	METAL CHIP	47K	5%	1/10W
R311	1-216-837-11	METAL CHIP	22K	5%	1/10W
R312	1-216-841-11	METAL CHIP	47K	5%	1/10W
R313	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R316	1-216-809-11	METAL CHIP	100	5%	1/10W
R317	1-216-817-11	METAL CHIP	470	5%	1/10W
R319	1-216-817-11	METAL CHIP	470	5%	1/10W

FM **LSW** **MAIN**

Ref. No.	Part No.	Description			Remark
R320	1-216-817-11	METAL CHIP	470	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0		
R701	1-216-833-11	METAL CHIP	10K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R704	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
R706	1-216-821-11	METAL CHIP	1K	5%	1/10W
R707	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-809-11	METAL CHIP	100	5%	1/10W
R712	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R713	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R714	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R715	1-216-833-11	METAL CHIP	10K	5%	1/10W
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R718	1-216-802-11	RES-CHIP	27	5%	1/10W
R719	1-216-815-11	METAL CHIP	330	5%	1/10W
R721	1-216-808-11	METAL CHIP	82	5%	1/10W
R722	1-216-817-11	METAL CHIP	470	5%	1/10W
R723	1-216-864-11	SHORT CHIP	0		
R724	1-216-837-11	METAL CHIP	22K	5%	1/10W
R726	1-216-864-11	SHORT CHIP	0		
R727	1-216-864-11	SHORT CHIP	0		
R728	1-216-864-11	SHORT CHIP	0		
R729	1-242-792-11	SHORT CHIP	0		
		< VARIABLE RESISTOR >			
RV701	1-238-090-11	RES, ADJ, CERMET	10K		
		< VIBRATOR >			
X701	1-795-149-11	VIBRATOR, CRYSTAL (7.6MHz)			
**********					
*	1-679-422-12	LSW BOARD			
		**********			
		< SWITCH >			
SW3	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
	A-3274-255-A	MAIN BOARD, COMPLETE			
		**********			
	1-676-339-12	MAIN FLEXIBLE BOARD			
	3-244-890-01	PLATE (MAIN) (MP3), SHIELD			
		< CAPACITOR/RESISTOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C105	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C106	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C107	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V

Ref. No.	Part No.	Description			Remark
C111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C113	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C115	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C116	1-126-382-11	ELECT	100uF	20%	16V
C117	1-126-382-11	ELECT	100uF	20%	16V
C118	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C119	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C120	1-115-416-11	CERAMIC CHIP	1000PF	5%	25V
C121	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C122	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C124	1-115-416-11	CERAMIC CHIP	1000PF	5%	25V
C161	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C162	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C205	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C206	1-104-656-11	ELECT	2200uF	20%	6.3V
C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C304	1-216-853-11	METAL CHIP	470K	5%	25V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	1/10W
C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C312	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C313	1-126-382-11	ELECT	100uF	20%	16V
C314	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-115-466-00	ELECT	1000uF	20%	16V
C316	1-126-382-11	ELECT	100uF	20%	16V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C318	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C319	1-127-491-00	ELECT (SOLID)	22uF	20%	10V
C320	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C321	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C322	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C324	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C401	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C403	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C404	1-126-382-11	ELECT	100uF	20%	16V
C409	1-124-233-11	ELECT	10uF	20%	16V
C410	1-124-233-11	ELECT	10uF	20%	16V
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C413	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C604	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C607	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C608	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C609	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C610	1-124-589-11	ELECT	47uF	20%	16V
C611	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C612	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C613	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C615	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C616	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN301	1-784-829-21	CONNECTOR, FPC 21P			
		< DIODE >			
D201	8-719-050-38	DIODE	M1MA152WK-T1		
D202	8-719-988-61	DIODE	1SS355TE-17		
D203	8-719-050-38	DIODE	M1MA152WK-T1		
D301	6-500-030-01	DIODE	MM3Z16VST1		
D302	8-719-053-18	DIODE	1SR154-400TE-25		
D303	8-719-109-97	DIODE	RD6.8ESB2		
D306	8-719-056-83	DIODE	MM3Z7V5ST1		
D310	8-719-422-43	DIODE	MA8051-H-TX		
		< IC >			
IC101	8-752-398-18	IC	CXD3027R		
IC102	8-759-538-44	IC	MSM51V17400D-10TK-FS		
IC201	6-801-500-01	IC	HD6432238RWN16TEIV		
IC301	8-759-527-33	IC	LB1930M-TLM		
IC302	8-759-238-47	IC	TC74HCT7007AF (EL)		
IC303	6-702-148-01	IC	XC61CN2702NR		
IC304	6-702-147-01	IC	NJM2396F08		
IC305	6-702-146-01	IC	NJM2396F05		
IC306	8-759-444-93	IC	RH5RL33AA-T1		
IC401	8-759-662-11	IC	TLV2362IPWR		
IC601	6-700-297-01	IC	CXD9684R-004		
IC602	6-700-296-01	IC	W24L010AT-12-EL15		
IC603	8-759-645-31	IC	RN5RZ25BA-TL		
IC604	8-759-196-96	IC	TC7SH08FU-TE85R		
IC605	8-759-196-96	IC	TC7SH08FU-TE85R		
		< TRANSISTOR >			
Q202	8-729-421-22	TRANSISTOR	MUN2211T1		
Q205	8-729-424-08	TRANSISTOR	MUN2111T1		
Q301	8-729-010-25	TRANSISTOR	MSD601-RT1		
Q302	8-729-421-22	TRANSISTOR	MUN2211T1		
Q303	8-729-922-47	TRANSISTOR	2SB1184-TLR		
Q304	8-729-010-25	TRANSISTOR	MSD601-RT1		
Q305	8-729-028-62	TRANSISTOR	DTA115EKA-T146		
Q402	8-729-424-08	TRANSISTOR	MUN2111T1		
Q410	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q420	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
		< RESISTOR >			
R101	1-216-839-11	METAL CHIP	33K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-218-917-11	RES-CHIP	820K	5%	1/10W
R106	1-216-853-11	METAL CHIP	470K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-853-11	METAL CHIP	470K	5%	1/10W
R109	1-216-857-11	METAL CHIP	1M	5%	1/10W
R110	1-216-834-11	METAL CHIP	12K	5%	1/10W
R111	1-216-834-11	METAL CHIP	12K	5%	1/10W
R112	1-216-834-11	METAL CHIP	12K	5%	1/10W
R113	1-216-834-11	METAL CHIP	12K	5%	1/10W
R114	1-216-834-11	METAL CHIP	12K	5%	1/10W
R115	1-216-834-11	METAL CHIP	12K	5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-813-11	METAL CHIP	220	5%	1/10W
R118	1-216-815-11	METAL CHIP	330	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-809-11	METAL CHIP	100	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R122	1-216-839-11	METAL CHIP	33K	5%	1/10W
R123	1-216-845-11	METAL CHIP	100K	5%	1/10W
R124	1-216-809-11	METAL CHIP	100	5%	1/10W
R125	1-216-839-11	METAL CHIP	33K	5%	1/10W
R201	1-216-845-11	METAL CHIP	100K	5%	1/10W
R204	1-216-864-11	SHORT CHIP	0		
R207	1-216-821-11	METAL CHIP	1K	5%	1/10W
R208	1-216-845-11	METAL CHIP	100K	5%	1/10W
R209	1-216-853-11	METAL CHIP	470K	5%	1/10W
R211	1-216-845-11	METAL CHIP	100K	5%	1/10W
R212	1-216-821-11	METAL CHIP	1K	5%	1/10W
R213	1-216-845-11	METAL CHIP	100K	5%	1/10W
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R216	1-216-821-11	METAL CHIP	1K	5%	1/10W
R217	1-216-809-11	METAL CHIP	100	5%	1/10W
R218	1-216-809-11	METAL CHIP	100	5%	1/10W
R219	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R220	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R221	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R231	1-216-845-11	METAL CHIP	100K	5%	1/10W
R232	1-216-845-11	METAL CHIP	100K	5%	1/10W
R233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R234	1-216-821-11	METAL CHIP	1K	5%	1/10W
R235	1-216-845-11	METAL CHIP	100K	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-857-11	METAL CHIP	1M	5%	1/10W
R303	1-218-739-11	RES-CHIP	91K	5%	1/10W
R304	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-841-11	METAL CHIP	47K	5%	1/10W
R310	1-216-839-11	METAL CHIP	33K	5%	1/10W
R311	1-216-845-11	METAL CHIP	100K	5%	1/10W
R312	1-216-841-11	METAL CHIP	47K	5%	1/10W
R401	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R402	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R403	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R404	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R406	1-216-833-11	METAL CHIP	10K	5%	1/10W

CDX-565MXRF

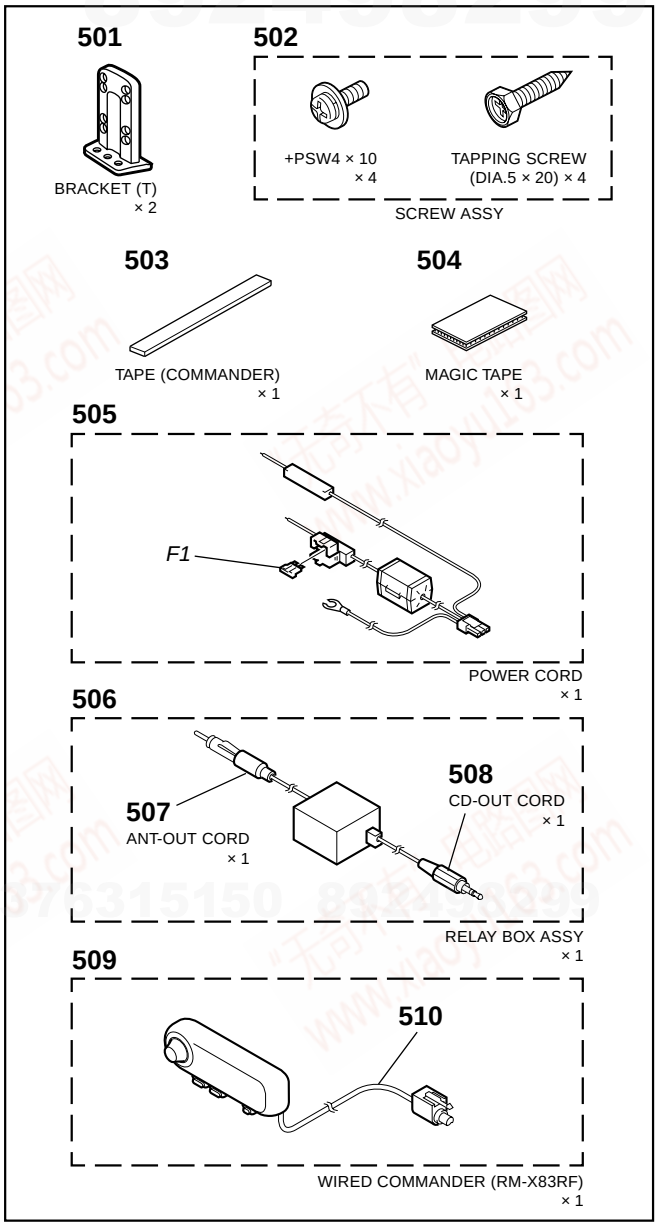
Ver 1.1

MAIN **RF**

Ref. No.	Part No.	Description			Remark
R407	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-839-11	METAL CHIP	33K	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-845-11	METAL CHIP	100K	5%	1/10W
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-845-11	METAL CHIP	100K	5%	1/10W
R607	1-216-814-11	METAL CHIP	270	5%	1/10W
R608	1-216-814-11	METAL CHIP	270	5%	1/10W
R610	1-216-857-11	METAL CHIP	1M	5%	1/10W
R612	1-216-809-11	METAL CHIP	100	5%	1/10W
R613	1-216-821-11	METAL CHIP	1K	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB601	1-233-810-21	RES, NETWORK	100K (3216)		
RB602	1-233-810-21	RES, NETWORK	100K (3216)		
RB603	1-233-810-21	RES, NETWORK	100K (3216)		
RB604	1-233-810-21	RES, NETWORK	100K (3216)		
		< VARIABLE RESISTOR >			
RV201	1-223-834-11	RES, ADJ, CARBON	47K		
		< SWITCH >			
SW201	1-529-565-41	SWITCH, PUSH (1 KEY) (MAGAZINE DETECT)			
		< VIBRATOR >			
X101	1-795-577-21	VIBRATOR, CERAMIC (16.9344MHz)			
X201	1-767-133-21	VIBRATOR, CERAMIC (12.288MHz)			
**********					
*	A-3326-947-A	RF BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C121	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C122	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C201	1-117-681-11	ELECT CHIP	100uF	20%	16V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C204	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C205	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C206	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C207	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C208	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

Ref. No.	Part No.	Description			Remark
C209	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C217	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN102	1-778-303-21	CONNECTOR, FPC (ZIF) 16P			
		< CONNECTOR >			
CNJ101	1-778-777-21	CONNECTOR, FPC 26P			
		< IC >			
IC101	8-752-089-74	IC CXA2581N-T4			
IC201	8-759-832-99	IC LA6576L-TE-L			
		< TRANSISTOR >			
Q101	8-729-010-05	TRANSISTOR	MSB709-RT1		
Q102	8-729-024-88	TRANSISTOR	MUN2212T1		
		< RESISTOR >			
R101	1-216-801-11	METAL CHIP	22	5%	1/10W
R102	1-216-837-11	METAL CHIP	22K	5%	1/10W
R103	1-216-837-11	METAL CHIP	22K	5%	1/10W
R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
R105	1-216-801-11	METAL CHIP	22	5%	1/10W
R106	1-216-864-11	SHORT CHIP	0		
R107	1-216-845-11	METAL CHIP	100K	5%	1/10W
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R109	1-216-836-11	METAL CHIP	18K	5%	1/10W
R110	1-216-834-11	METAL CHIP	12K	5%	1/10W
R111	1-216-835-11	METAL CHIP	15K	5%	1/10W
R112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R120	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R121	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R122	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R201	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W
R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R204	1-216-839-11	METAL CHIP	33K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-839-11	METAL CHIP	33K	5%	1/10W
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
R210	1-216-839-11	METAL CHIP	33K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-839-11	METAL CHIP	33K	5%	1/10W
R213	1-216-833-11	METAL CHIP	10K	5%	1/10W
R214	1-216-839-11	METAL CHIP	33K	5%	1/10W
R215	1-216-841-11	METAL CHIP	47K	5%	1/10W
R216	1-216-842-11	METAL CHIP	56K	5%	1/10W
R218	1-216-841-11	METAL CHIP	47K	5%	1/10W
R219	1-216-843-11	METAL CHIP	68K	5%	1/10W
R220	1-216-834-11	METAL CHIP	12K	5%	1/10W
R222	1-216-821-11	METAL CHIP	1K	5%	1/10W
R223	1-216-819-11	METAL CHIP	680	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
SW1	1-529-566-31	SWITCH, PUSH (1 KEY) (CHUCKING END DETECT)	
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SAVE END DETECT)	
**********			
		MISCELLANEOUS	
		**********	
5	1-823-973-12	CORD (WITH CONNECTOR) (POWER)	
6	A-3301-964-A	RELAY BOX ASSY	
7	1-792-045-21	CORD (WITH CONNECTOR) (ANT-OUT) (for RELAY BOX ASSY)	
8	1-792-044-23	CORD (WITH CONNECTOR) (CD-OUT) (for RELAY BOX ASSY)	
9	A-3220-842-A	WIRED COMMANDER (RM-X83RF)	
10	1-823-920-22	CABLE WITH CONNECTOR 8P (for RM-X83RF)	
56	1-676-735-11	FM FLEXIBLE BOARD	
251	1-676-341-11	OP FLEXIBLE BOARD	
⚠255	8-820-103-11	OPTICAL PICK-UP KSS-720A/C-RP	
F1	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A/32V)	
M101	A-3315-151-A	SLED MOTOR ASSY (251)	
M102	A-3301-998-A	SPINDLE MOTOR (S) SUB ASSY	
M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	
RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	
**********			
		ACCESSORIES	
		**********	
	1-477-262-12	WIRELESS REMOTE COMMANDER (RM-X84RF)	
	3-230-047-01	BATTERY HOLDER (for RM-X84RF)	
	3-241-726-12	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	
	3-241-727-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH)	
	A-3301-944-A	MAGAZINE (250) ASSY	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	3-040-583-21	BRACKET (T)	
* 502	X-3369-824-1	SCREW ASSY	
503	not supplied		
504	4-916-258-01	TAPE, MAGIC (for RM-X84RF)	
505	1-823-973-12	CORD (WITH CONNECTOR) (POWER)	
506	A-3301-964-A	RELAY BOX ASSY	
507	1-792-045-21	CORD (WITH CONNECTOR) (ANT-OUT) (for RELAY BOX ASSY)	
508	1-792-044-23	CORD (WITH CONNECTOR) (CD-OUT) (for RELAY BOX ASSY)	
509	A-3220-842-A	WIRED COMMANDER (RM-X83RF)	
510	1-823-920-22	CABLE WITH CONNECTOR 8P (for RM-X83RF)	
F1	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A/32V)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2002.04	New
1.1	2002.06	Correction of Part No. for D701, R311 of FM board Correction of Part No. for R216, R413, R414 of MAIN board Correction of Part No. for CORD (WITH CONNECTOR) (CD-OUT) (for RELAY BOX ASSY) (ENG-02007)