

CDX-757MX

SERVICE MANUAL

Ver 1.1 2002.08

US Model
Canadian Model
E Model



Model Name Using Similar Mechanism	CDX-747X
CD Drive Mechanism Type	MG-251B-137
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

System Compact disc digital audio system
Laser diode properties Material: GaAlAs
Wavelength: 780 nm
Emission Duration: Continuous
Laser out-put Power: Less than
 $44.6 \mu\text{W}^*$

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

Frequency response 5 – 20,000 Hz
Wow and flutter Below the measurable limit
Signal-to-noise ratio 102 dB
Outputs BUS control output (8 pins)
Analog audio output (RCA pin)
Current drain 800 mA (during CD playback)
800 mA (during loading or ejecting a disc)
Operating temperature -10°C to +55°C (14°F to 131°F)
Dimensions Approx. 262 × 90 × 185 mm
(10 5/8 × 3 5/8 × 7 5/8 in.)
(w/h/d) not incl. projecting parts and controls
Mass Approx. 2.1 kg (4 lb. 10 oz.)
Power requirement 12 V DC car battery
(negative ground)
Supplied accessories Disc magazine (1)
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

COMPACT DISC CHANGER

9-873-618-02
2002H0500-1
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e Vehicle Company
Published by Sony Engineering Corporation

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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.

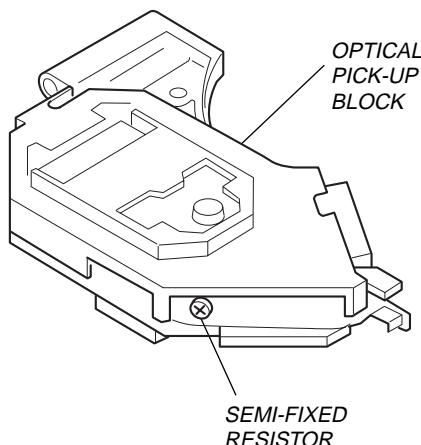
NOTES ON LASER DIODE EMISSION CHECK

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.

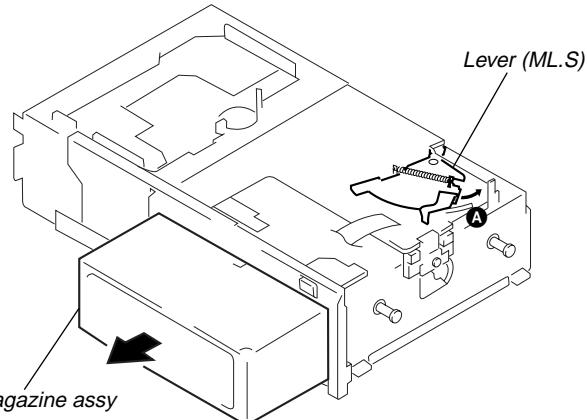
Never turn the semi-fixed resistor located at the side of optical pick-up block.

**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 **A**.
- 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.

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

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

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

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/CD-RW discs

- You can play CD-Rs/CD-RWs (recordable CDs/rewritable CDs) on this unit (fig. [E]).
- Some CD-Rs/CD-RWs (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/CD-RW 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/CD-RW disc to be played on the audio CD player.

[E]

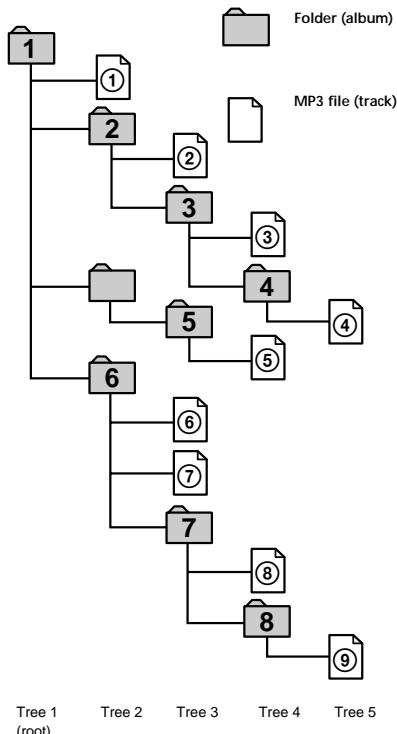
Audio CD



MP3 files



About MP3 files



Folder (album)
MP3 file (track)

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[†] level 1 or level 2 format, or Joliet or Romeo in the expansion format. You can use a disc recorded in Multi Session[‡].

*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.

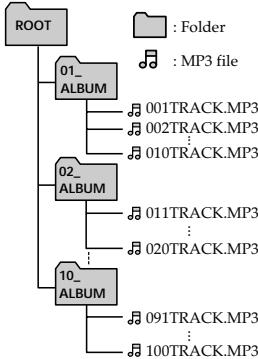
- The file must be in the ISO 9660 level 1 or level 2 format, or Joliet or Romeo in the ISO 9660 expansion format.
- A folder name or a file name with the format other than ISO 9660 level 1 may not be displayed correctly. When creating MP3 data CDs, the format of ISO 9660 level 1 is recommended.
- When 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.

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This section is extracted from
instruction manual.

Installation

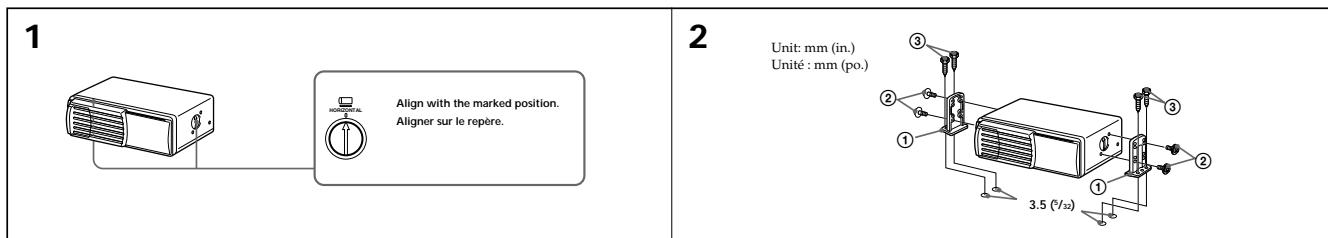
Precautions

- Choose the mounting location carefully, observing the following:
 - The unit is not subject to temperatures exceeding 55°C (131°F) (such as in a car parked in direct sunlight).
 - The unit is not subject to direct sunlight.
 - The unit is not near heat sources (such as heaters).
 - The unit is not exposed to rain or moisture.
 - The unit is not exposed to excessive dust or dirt.
 - The unit is not subject to excessive vibration.
 - The fuel tank should not be damaged by the tapping screws.
 - There should be no wire harnesses or pipes under the place where you are going to install the unit.
 - The spare tire, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.
- Use only the supplied screws.
- Make holes of 3.5 mm ($\frac{7}{32}\text{ in.}$) only after making sure there is nothing on the other side of the mounting surface.

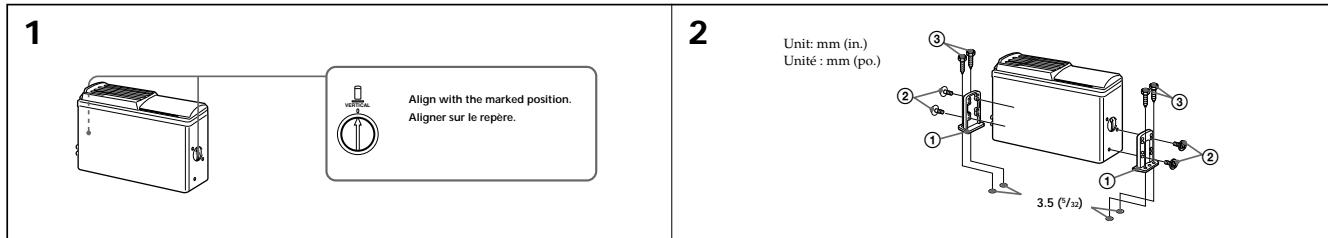
How to install the unit

The brackets ① provide two positions for mounting, high and low. Use the appropriate screw holes according to your preference.

Horizontal installation



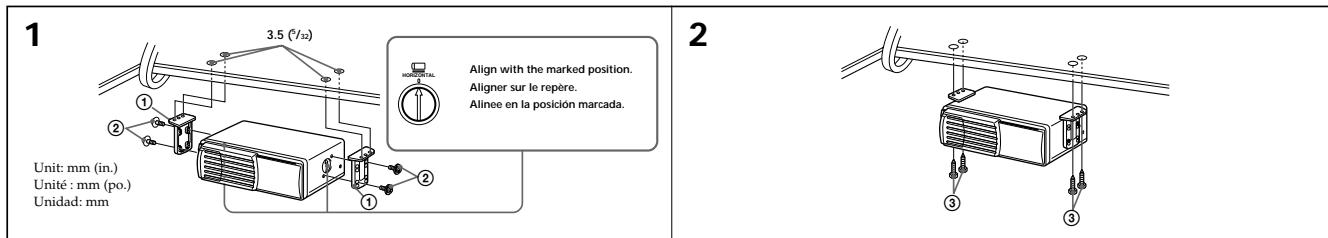
Vertical installation



Suspended installation

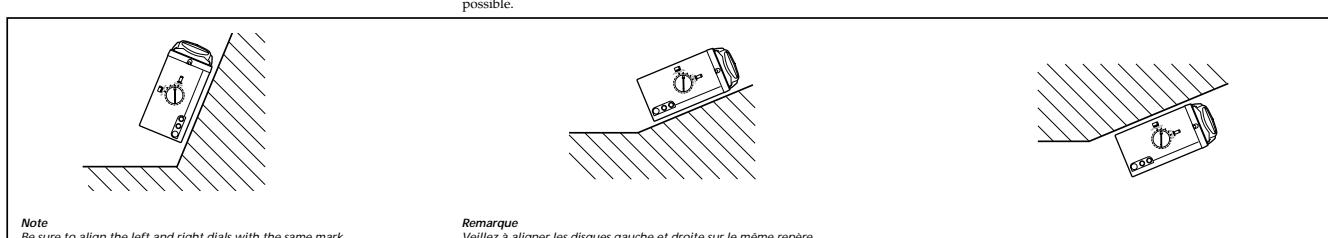
When the unit is to be installed under the rear tray etc. in the trunk compartment, make sure the following provisions are made.

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



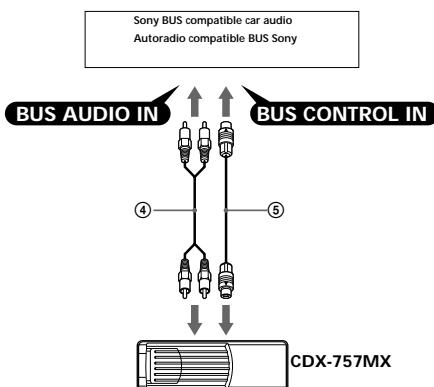
Inclined installation

After installing the unit, align the dials with one of the marks so that the arrows are as vertical as possible.



Connections/Connexions

Connection diagram/Schéma de connexion



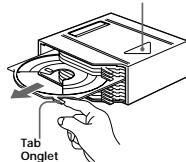
For details, refer to the Installation/Connections manual of the car audio.
Pour plus de détails, consulter le manuel d'installation/connexions de l'autoradio.

Note
For connecting two or more changers, the XA-C30 source selector (optional) is necessary.
Remarque
Pour raccorder deux ou plusieurs changeurs, le sélecteur de source XA-C30 (en option) est nécessaire.

Inserting a disc/Insertion d'un disque

1

With the arrow side facing up
Avec la partie fléchée tournée vers le haut



Labeled surface up
Étiquette vers le haut

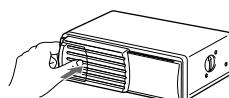


Note
You cannot play 8cm (3 in.) CDs.
Remarque
Vous ne pouvez pas écouter de CD de 8 cm (3po) sur le lecteur.

Use the supplied disc magazine or the disc magazine XA-250. The disc magazine XA-10B/XA-350 can not be used with this unit. If you use any other magazine, it may cause a malfunction.
Utilisez le magasin à disques fourni ou un magasin à disques XA-250. Vous ne pouvez pas utiliser de magasin à disques XA-10B/XA-350 avec cet appareil. L'utilisation d'un autre type de magasin à disques risque de provoquer un dysfonctionnement.

2

Push to unlock the door
Poussez pour déverrouiller la porte



Slide open
Coulissez pour ouvrir

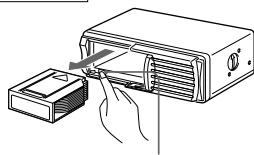
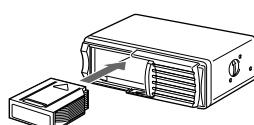
Note
To prevent injury, do not insert your hand in the CD changer.
Remarque
Pour éviter toute blessure, ne pas introduire la main dans le changeur de CD.



3

Disc magazine
Chargeur de disques

To remove
Retrait



If the disc magazine does not lock properly

Take out the magazine, and after pressing the ▲ (EJECT) button, re-insert it.

Si vous ne pouvez pas fermer le chargeur de disques
Sortez le chargeur et, après avoir appuyé sur la touche ▲ (EJECT), réinsérez-le.

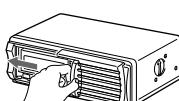
Note
When a disc magazine is inserted into the CD changer or the reset button of the connected car audio is pressed, the unit will automatically be activated and read the information on the CDs. When the information on all the CDs in the disc magazine has been read, the unit will automatically stop operation. 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.

Remarque
Quand un chargeur de disques est inséré dans le changeur de CD ou si la touche de réinitialisation de l'autoradio raccordé est enclenchée, l'appareil se met automatiquement en marche et reproduit les CD. Lorsque tous les CD du chargeur ont été reproduits, l'appareil s'arrête automatiquement. L'appareil commence par lire toutes les informations relatives au disque dans le chargeur de disque. Selon la méthode d'enregistrement, l'arrêt de l'opération peut demander quelques instants avant de s'arrêter si vous tournez la clé de contact sur OFF au cours de la lecture du disque. Il ne s'agit pas d'un dysfonctionnement.

4

Use the unit with the door closed completely
Otherwise, foreign matter may enter the unit and contaminate the lenses inside the changer.

Utilisez cet appareil avec la fenêtre complètement fermée
Sinon, des corps étrangers pourraient pénétrer dans l'appareil et encrasser les lentilles dans le lecteur.



Note
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.

Remarque
Quand un chargeur de disques est inséré dans le changeur de CD ou si la touche de réinitialisation de l'autoradio raccordé est enclenchée, l'appareil se met automatiquement en marche et reproduit les CD. Lorsque tous les CD du chargeur ont été reproduits, l'appareil s'arrête automatiquement. L'appareil commence par lire toutes les informations relatives au disque dans le chargeur de disque. Selon la méthode d'enregistrement, l'arrêt de l'opération peut demander quelques instants avant de s'arrêter si vous tournez la clé de contact sur OFF au cours de la lecture du disque. Il ne s'agit pas d'un dysfonctionnement.

Notes on the disc magazine

- Do not leave the disc magazine in locations with high temperatures and high humidity such as on a car dashboard or in the rear window where the disc magazine will be subjected to direct sunlight.
- Do not place more than one disc at a time onto one tray, otherwise the changer and the discs may be damaged.
- Do not drop the disc magazine or subject it to a violent shock.

Remarques sur le chargeur de disques

- Ne pas laisser le chargeur de disques dans un endroit très chaud ou très humide comme sur le tableau de bord ou sur la plage arrière de la voiture où il serait en plein soleil.
- Ne pas insérer plus d'un disque à la fois sur le plateau, sinon le chargeur et les disques risquent d'être endommagés.
- Ne pas laisser tomber le chargeur de disques ni le cogner.

When the tray comes out

Normally, the trays will not come out of the magazine. However, if they are pulled out of the magazine, it is easy to re-insert them.

Lorsque le plateau sort

En principe, les plateaux ne sortent pas du chargeur. Toutefois, s'ils sortent du chargeur, il est facile de les réinsérer.



With the cut-away portion of the tray facing you, insert the right corner of the tray in the slot, then push in the left corner until it clicks.

Note
Do not insert the tray upside down or in the wrong direction.

Remarque
Avec la portion découpée du plateau vous faisant face, insérer le coin droit du plateau dans la fente, puis enfoncez le coin gauche jusqu'au déclic.

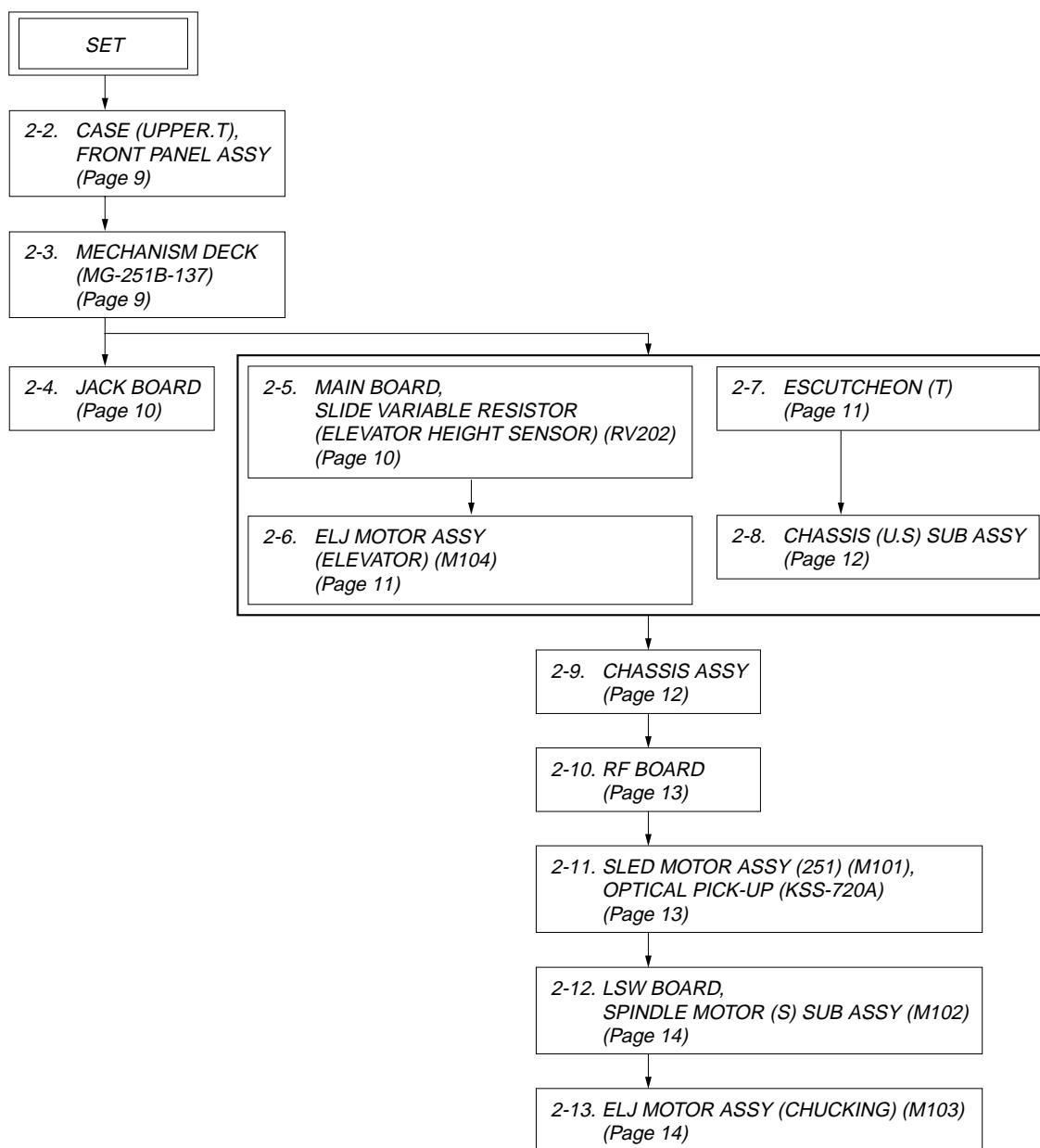
Note
Ne pas insérer le plateau à l'envers ou dans le mauvais sens.

SECTION 2 DISASSEMBLY

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

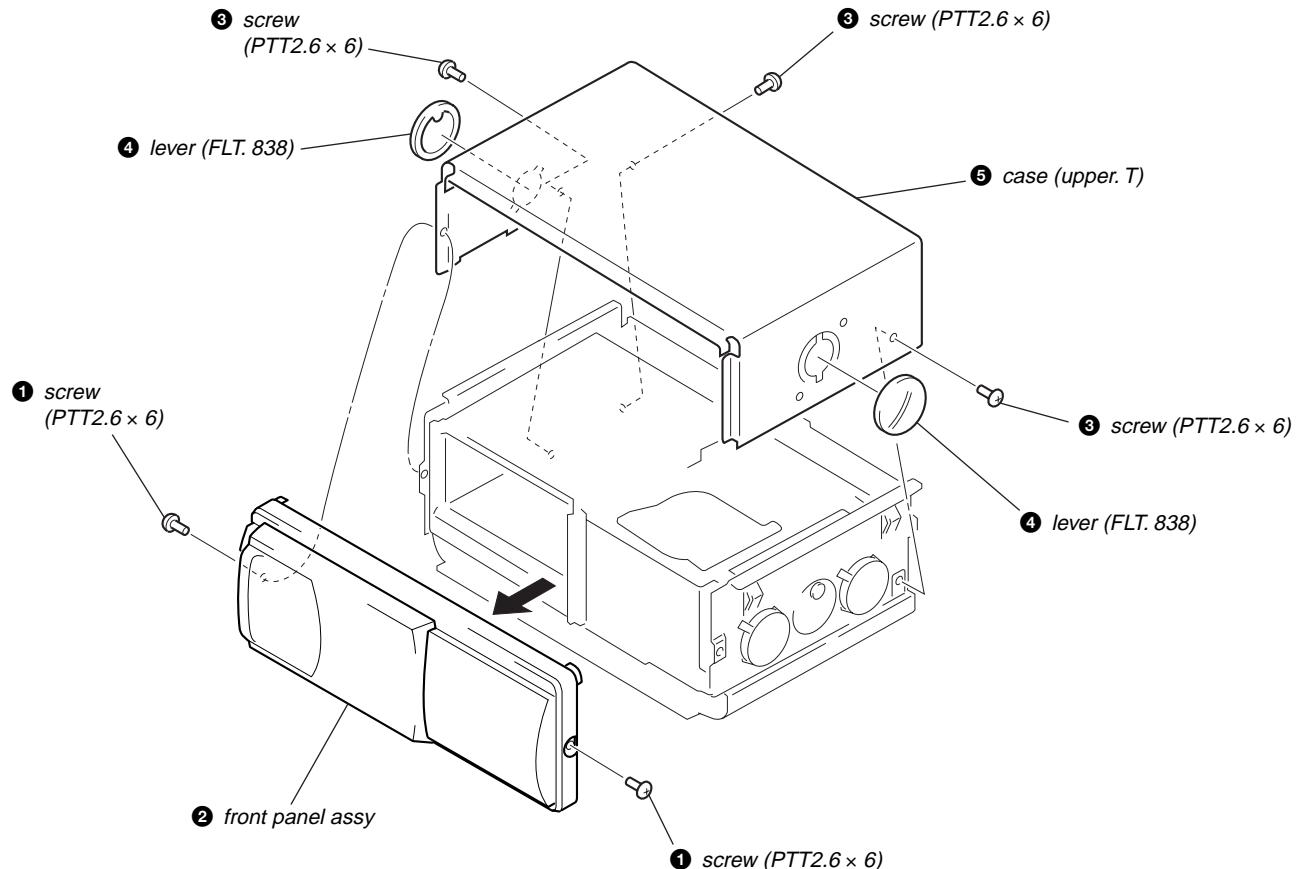
2-1. DISASSEMBLY FLOW

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.

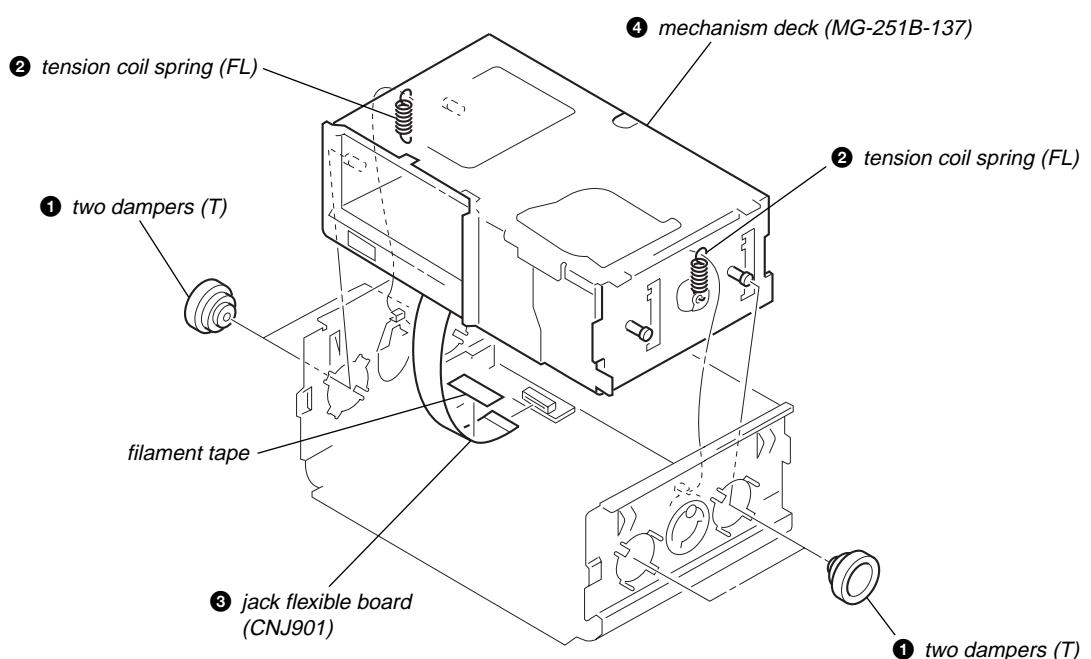


Note: Follow the disassembly procedure in the numerical order given.

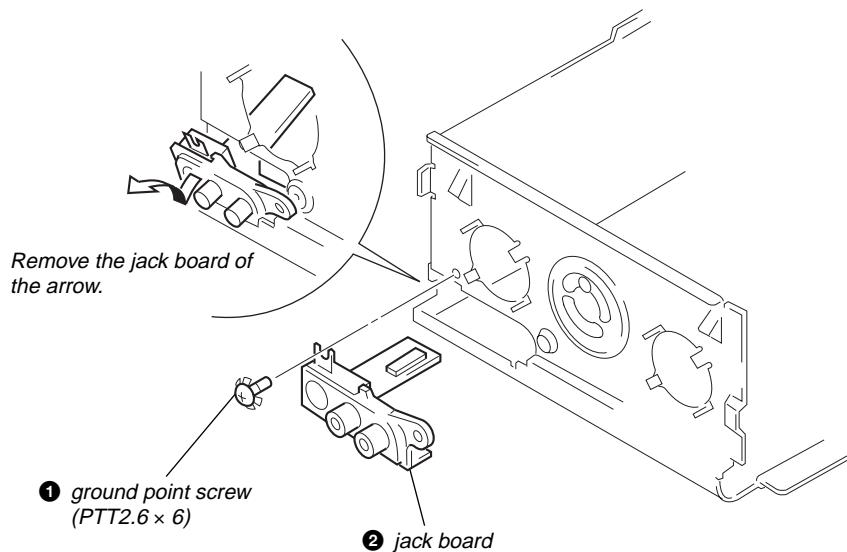
2-2. CASE (UPPER. T), FRONT PANEL ASSY



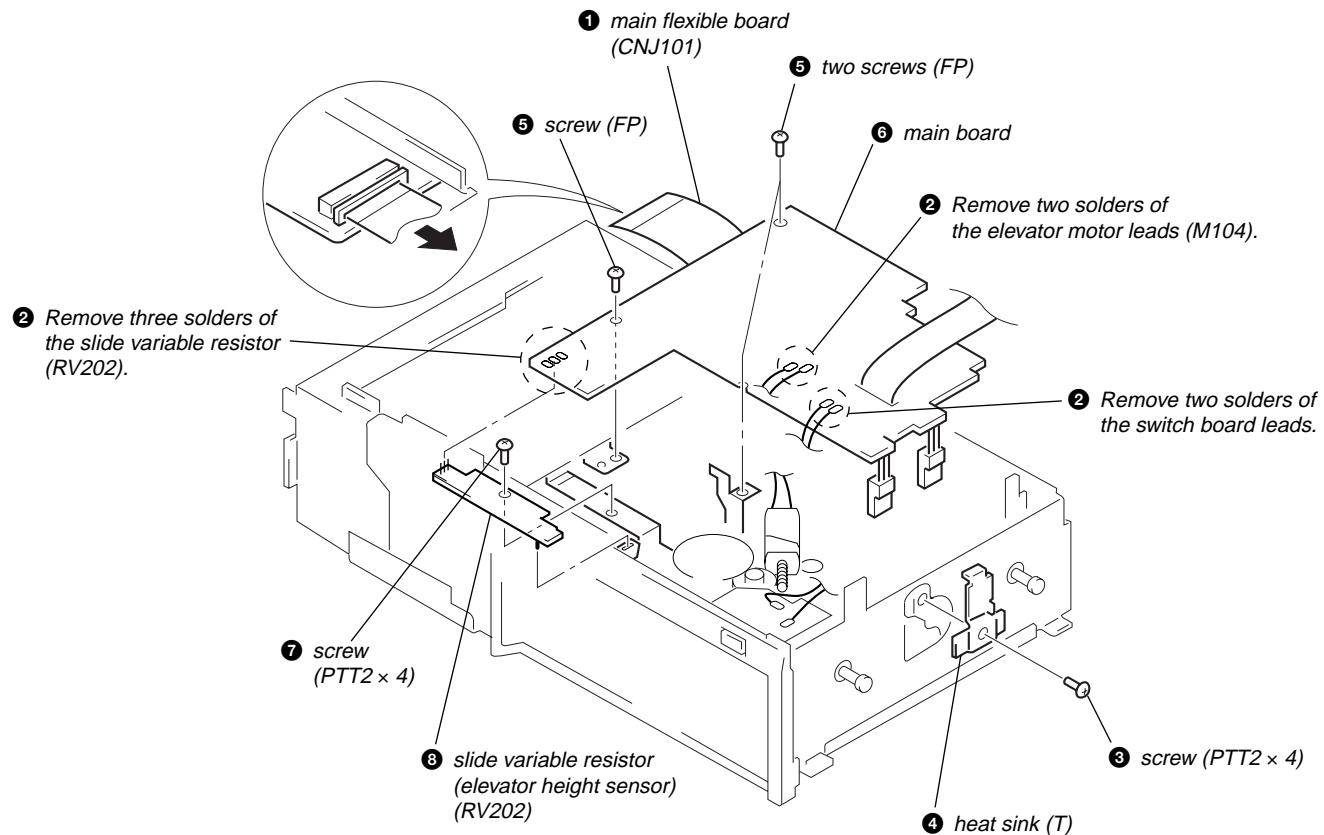
2-3. MECHANISM DECK (MG-251B-137)



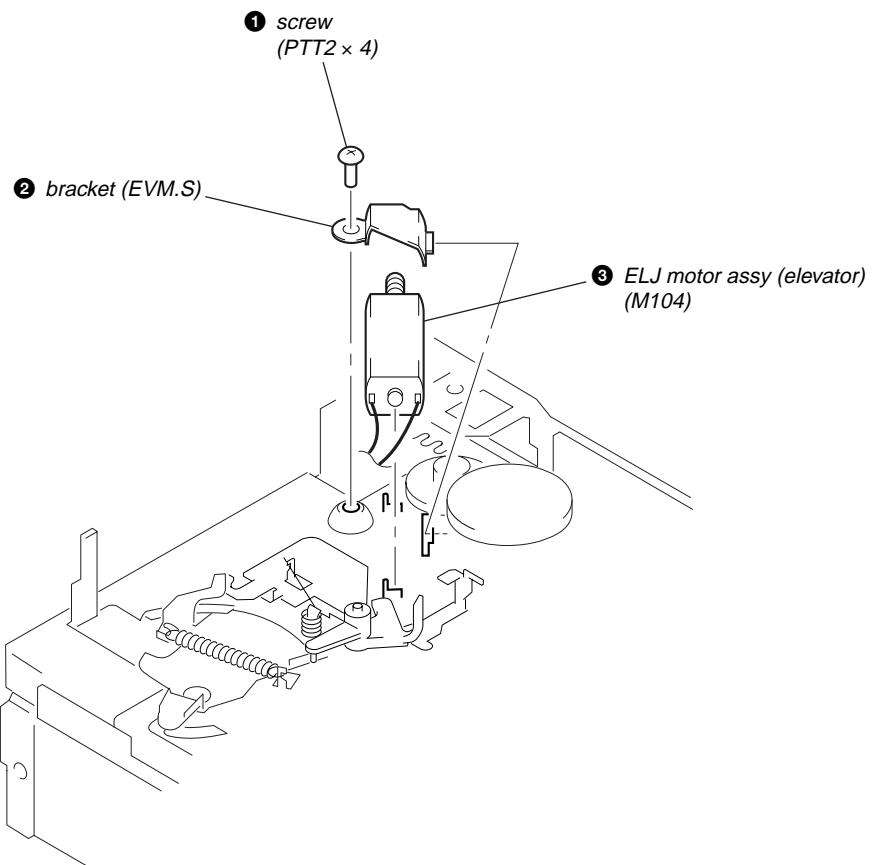
2-4. JACK BOARD



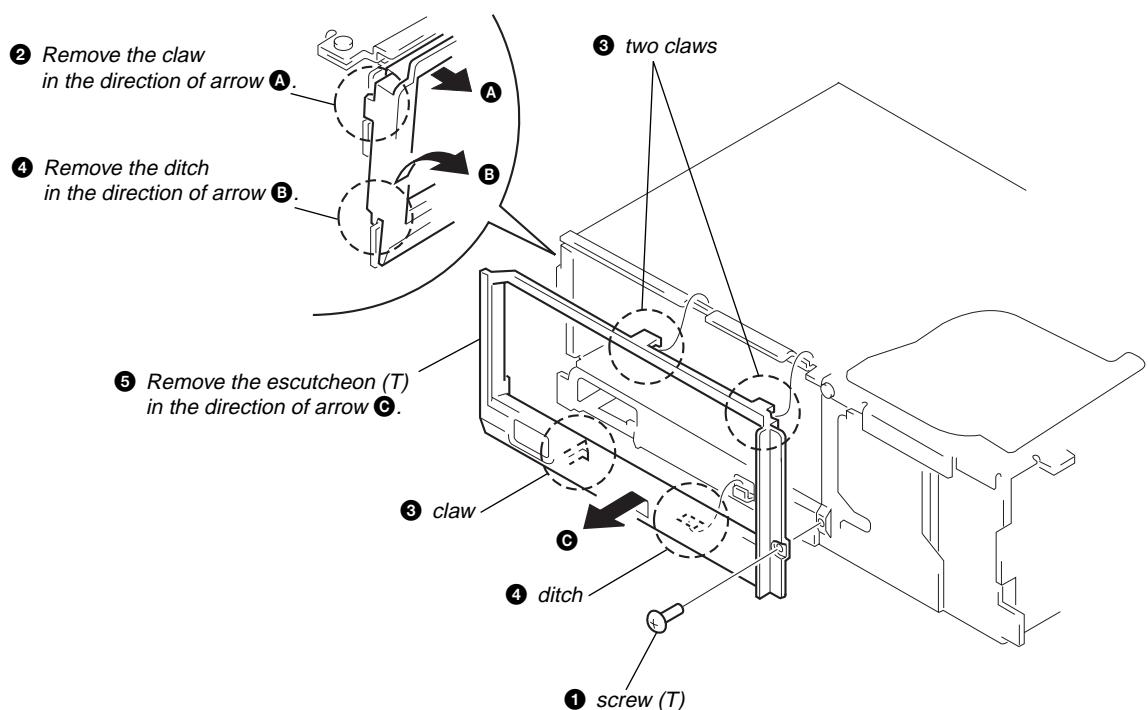
2-5. MAIN BOARD, SLIDE VARIABLE RESISTOR (ELEVATOR HEIGHT SENSOR) (RV202)



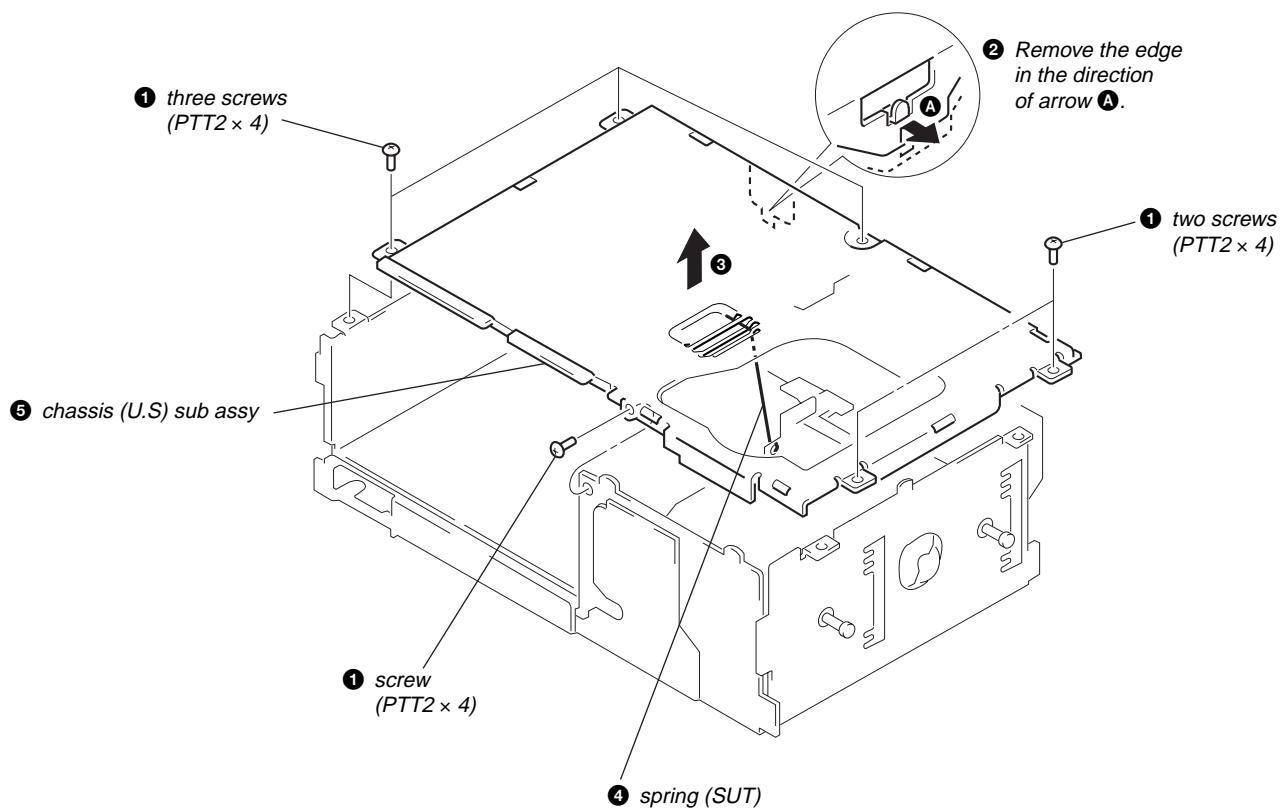
2-6. ELJ MOTOR ASSY (ELEVATOR) (M104)



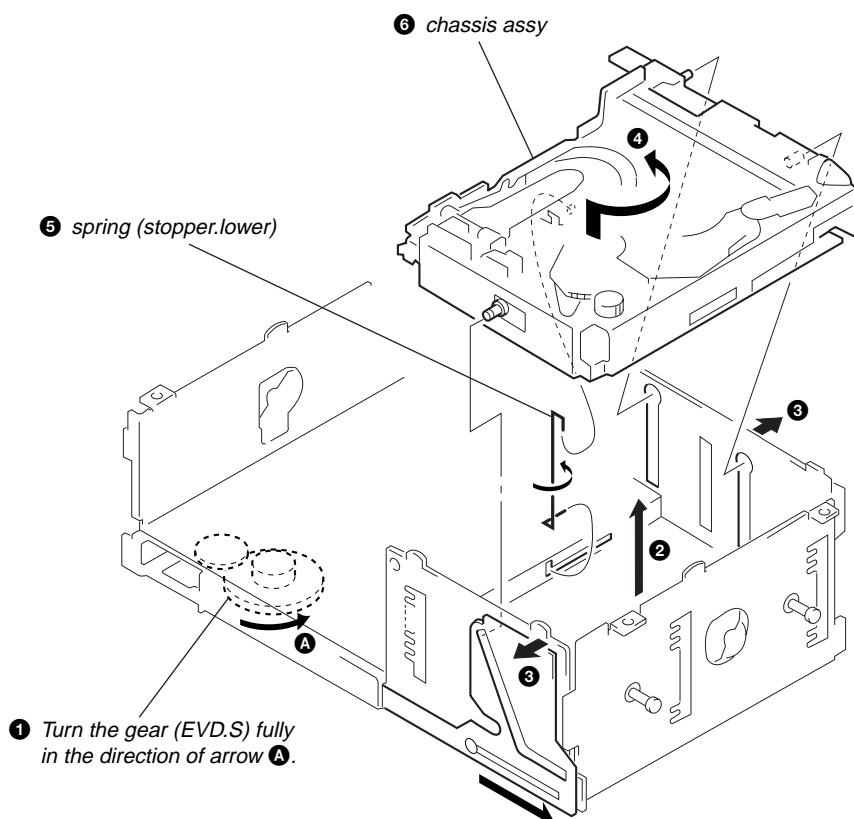
2-7. ESCUTCHEON (T)



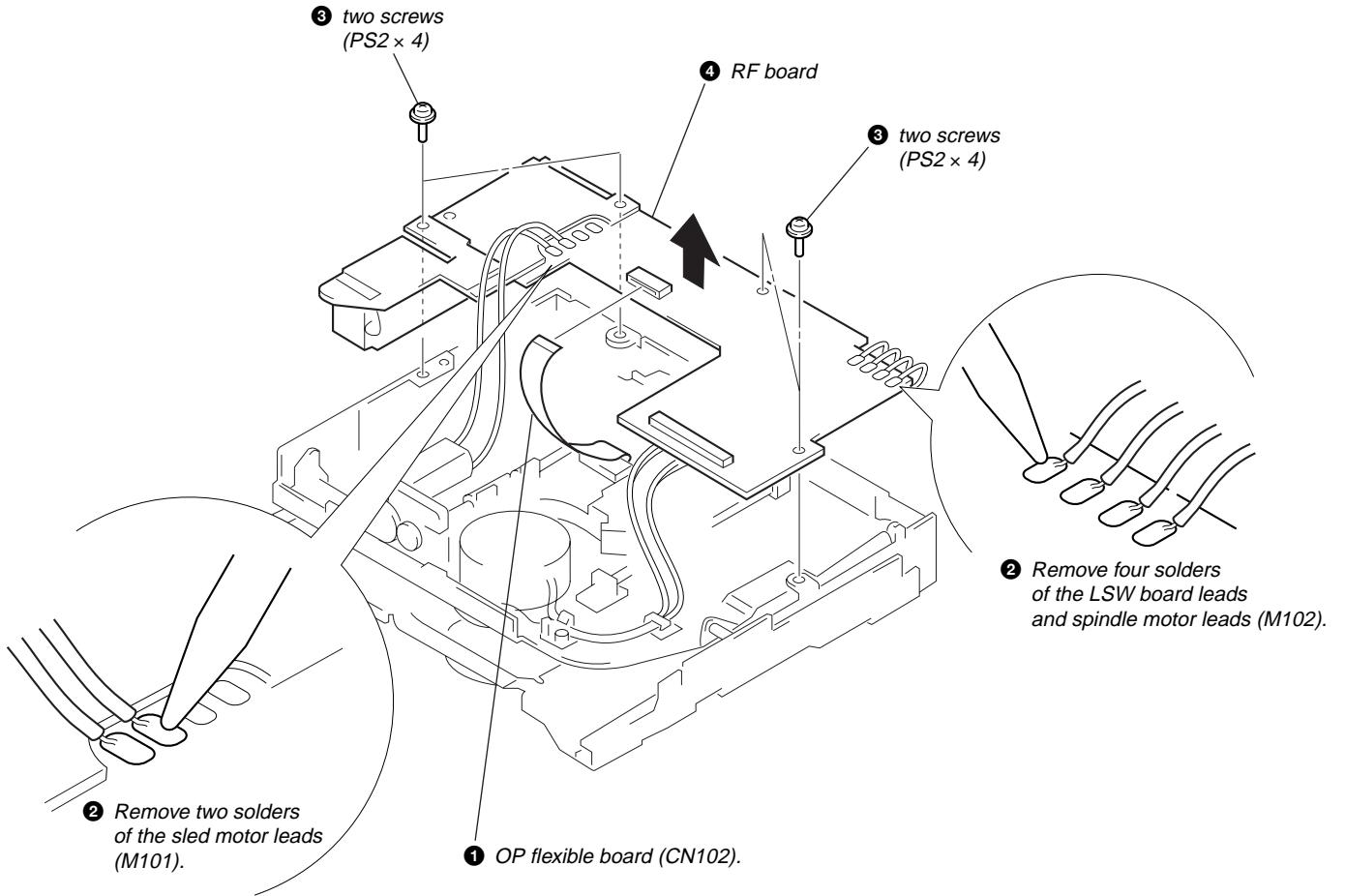
2-8. CHASSIS (U.S) SUB ASSY



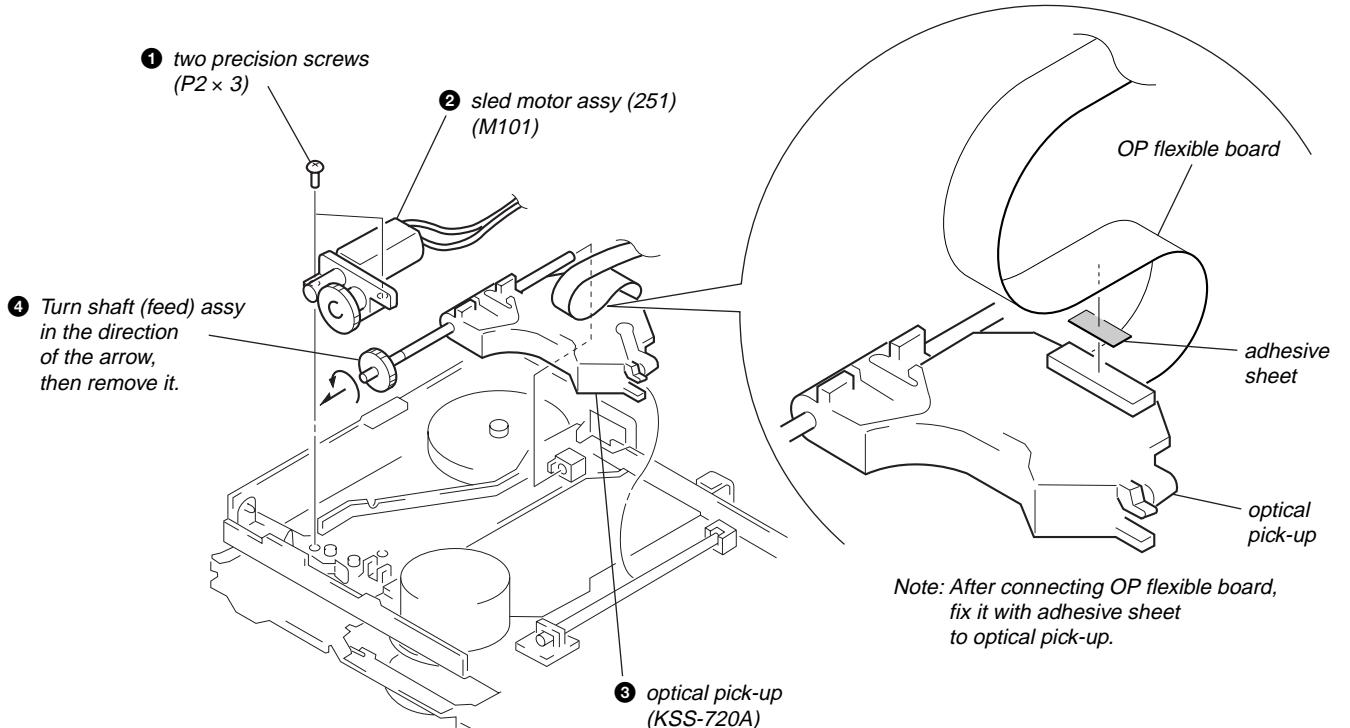
2-9. CHASSIS ASSY



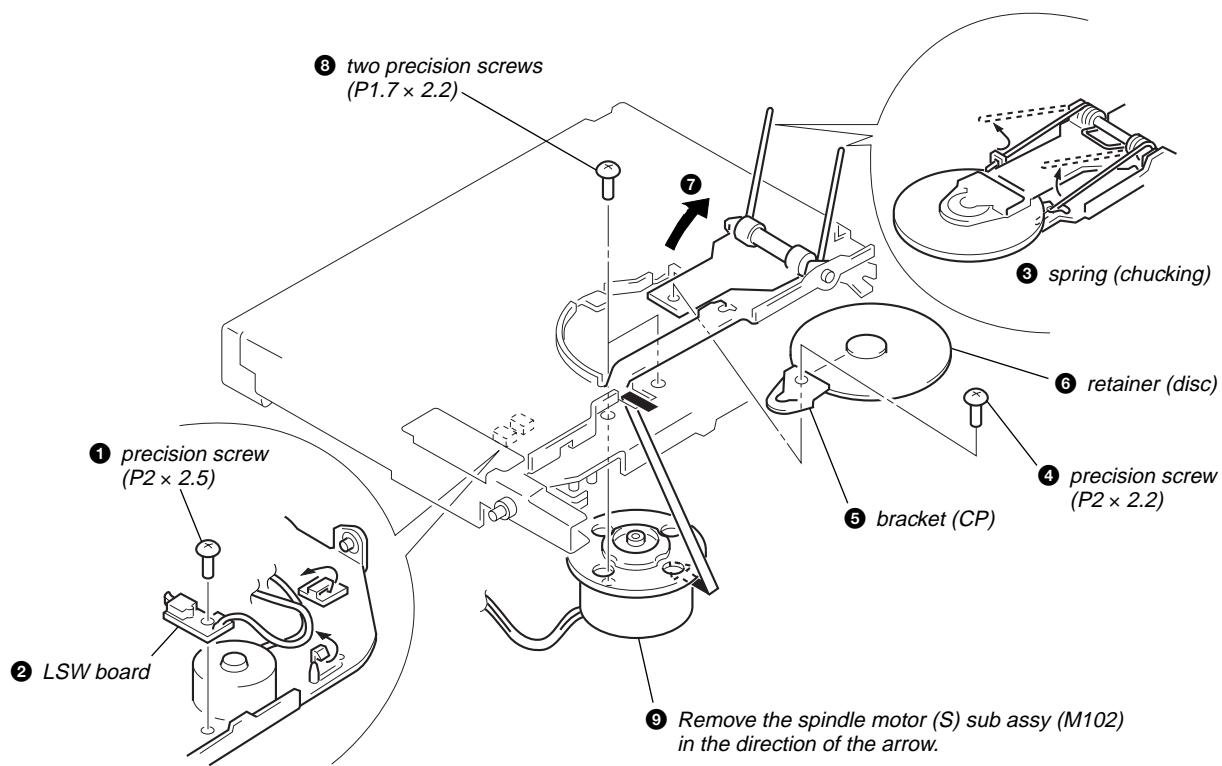
2-10. RF BOARD



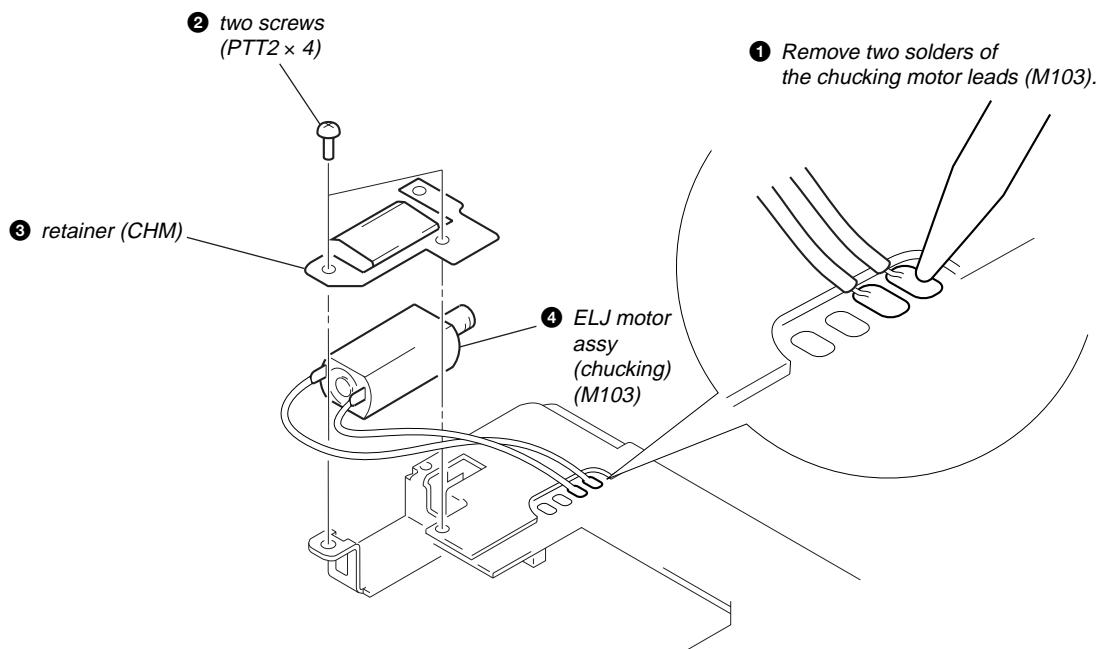
2-11. SLED MOTOR ASSY (251) (M101), OPTICAL PICK-UP (KSS-720A)



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



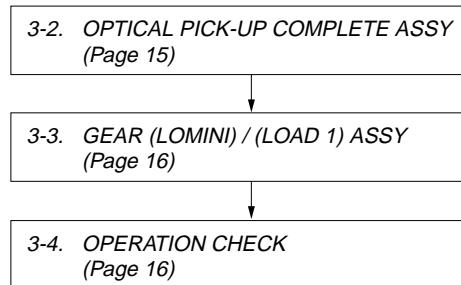
2-13. ELJ MOTOR ASSY (CHUCKING) (M103)



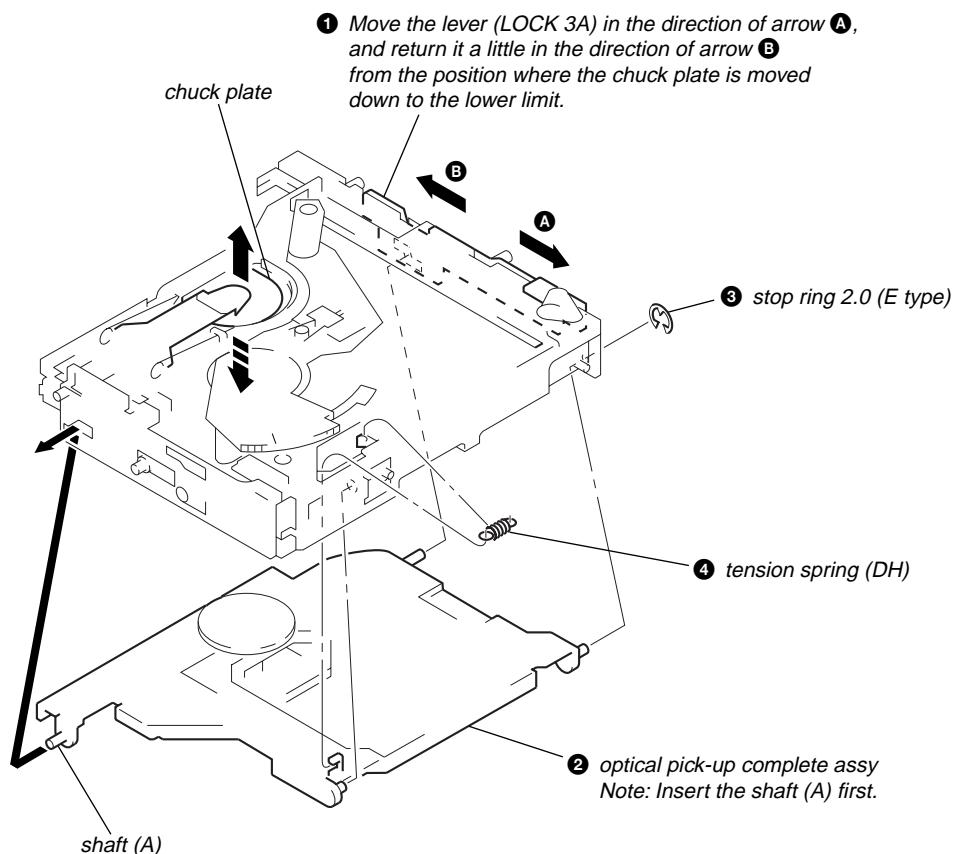
SECTION 3 ASSEMBLY

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

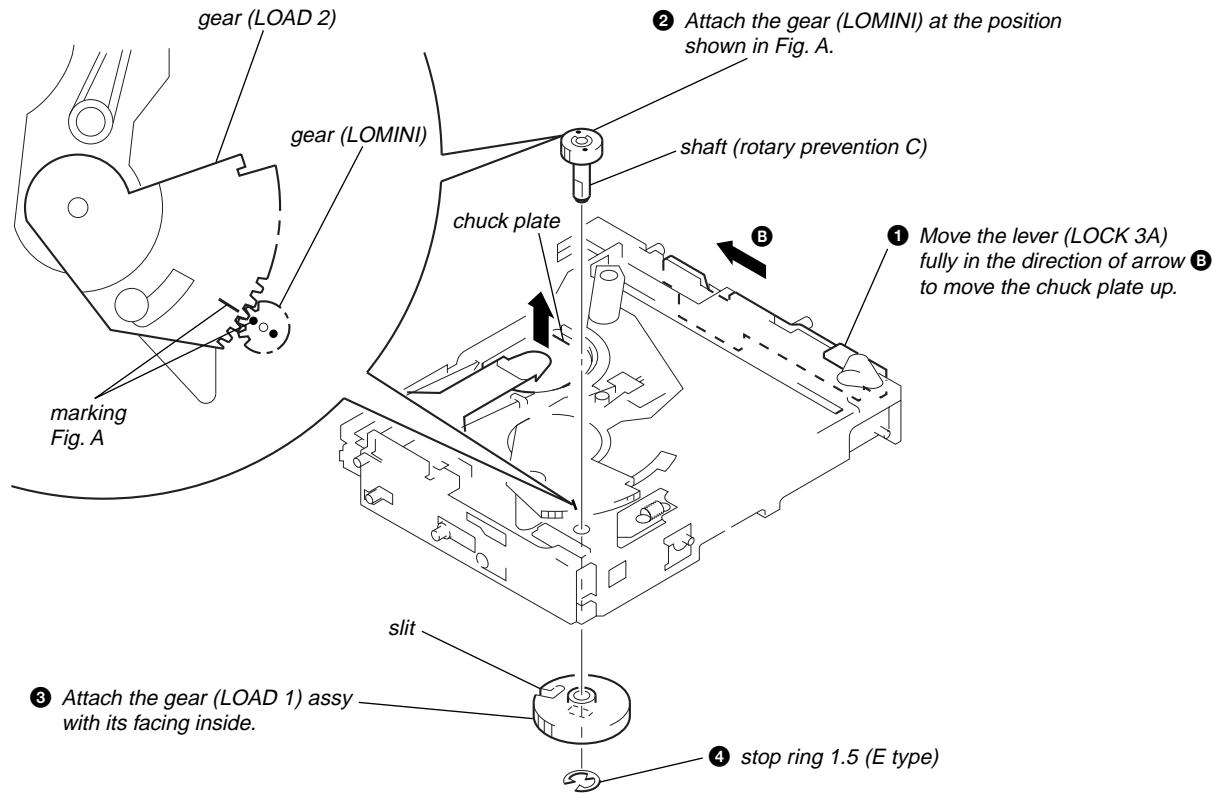
3-1. ASSEMBLY FLOW



3-2. OPTICAL PICK-UP COMPLETE ASSY

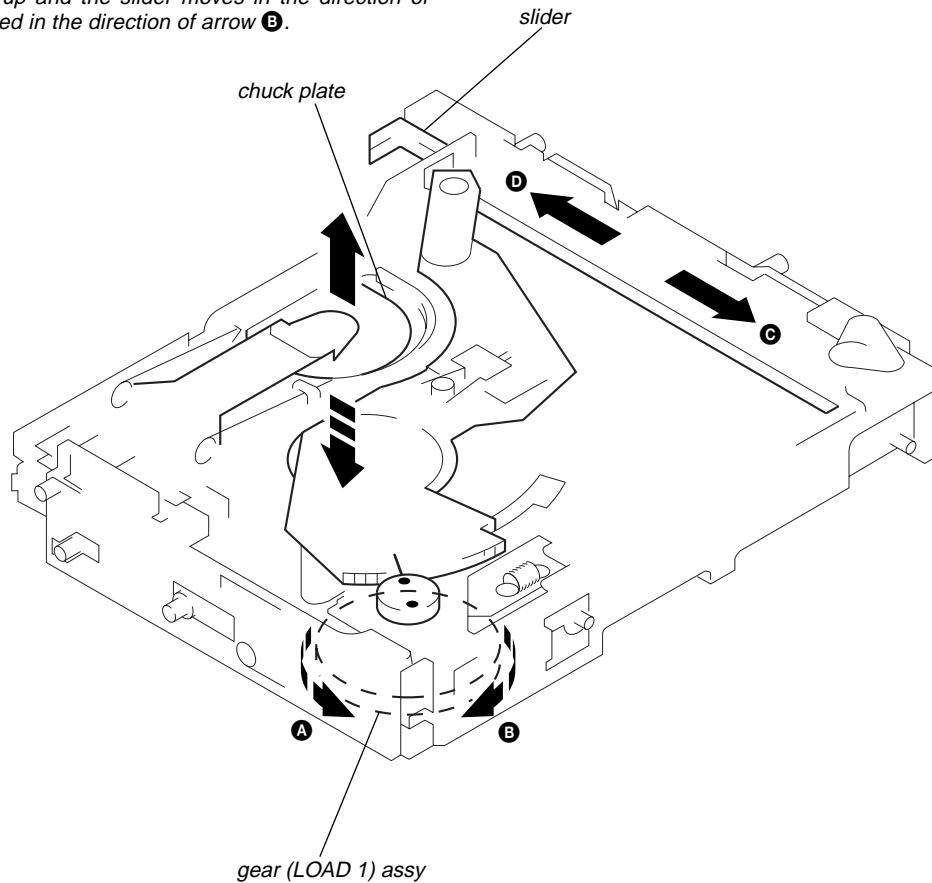


3-3. GEAR (LOMINI)/(LOAD 1) ASSY



3-4. OPERATION CHECK

- ①** 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**.



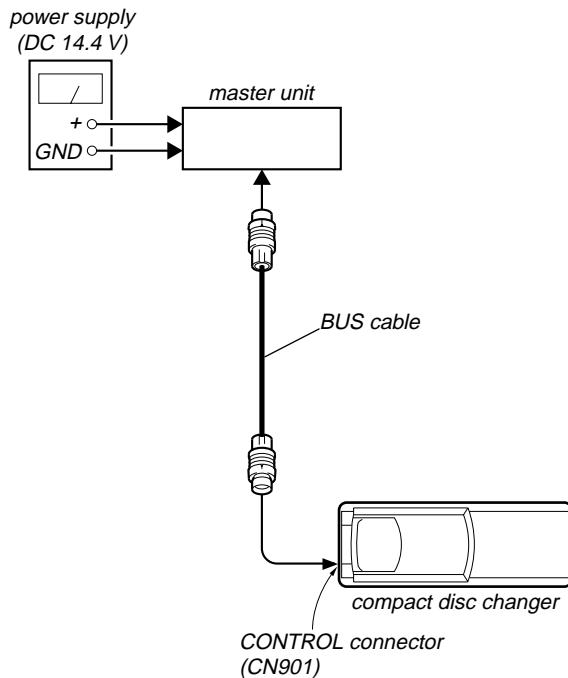
SECTION 4

MECHANICAL ADJUSTMENT

• Elevator Height (Address) Adjustment

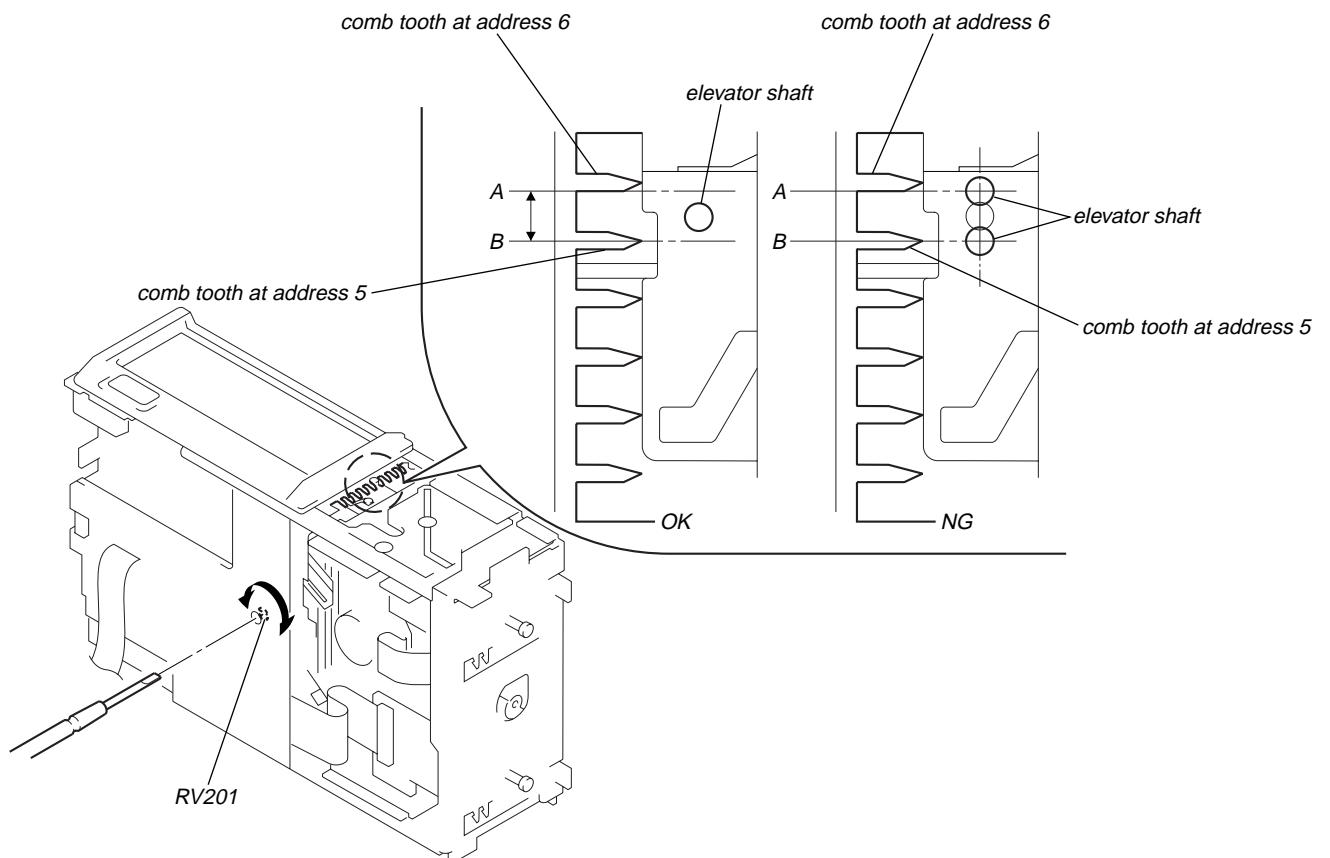
Note: This adjustment is necessary when the system controller (IC201), variable resistor (RV201), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



Adjustment Method:

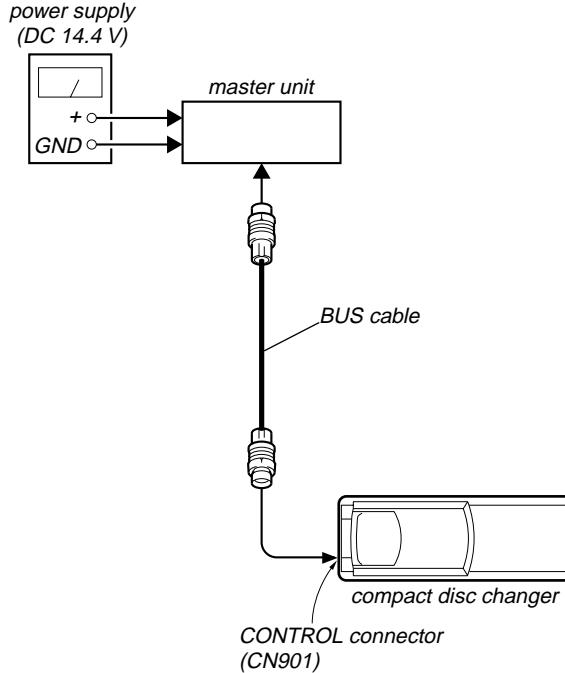
1. Connect this set to the master unit (e.g. MDX-C7970), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and - buttons on the master unit so that the elevator shaft 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.



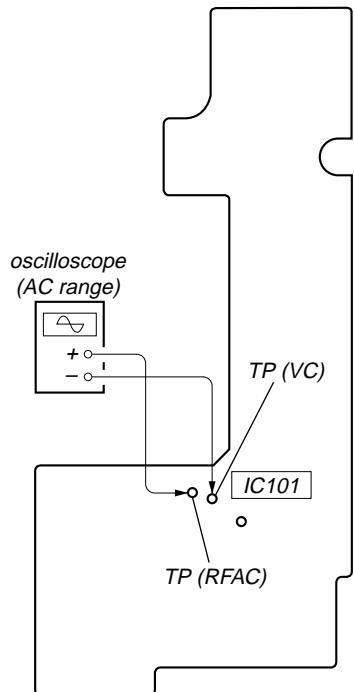
SECTION 5 ELECTRICAL CHECK

Note:

1. This check 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.
4. Use a master unit that supports SONY bus system.

Connection:**FOCUS BIAS CHECK****Connection:**

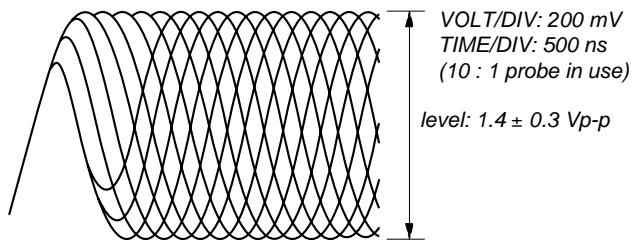
– RF Board (Component Side) –

**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:

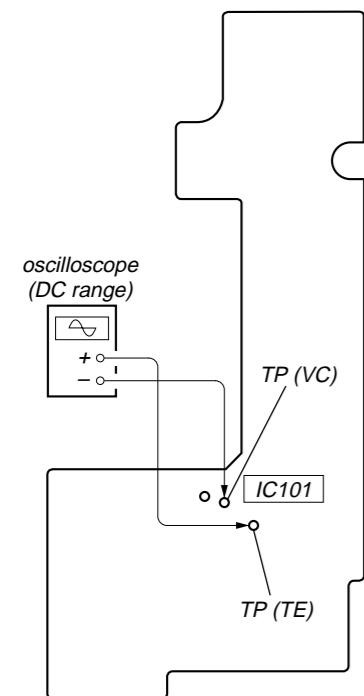
Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

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

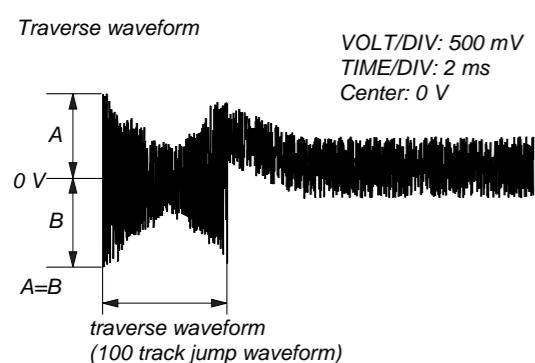
Connection:
– RF Board (Component Side) –



Procedure:

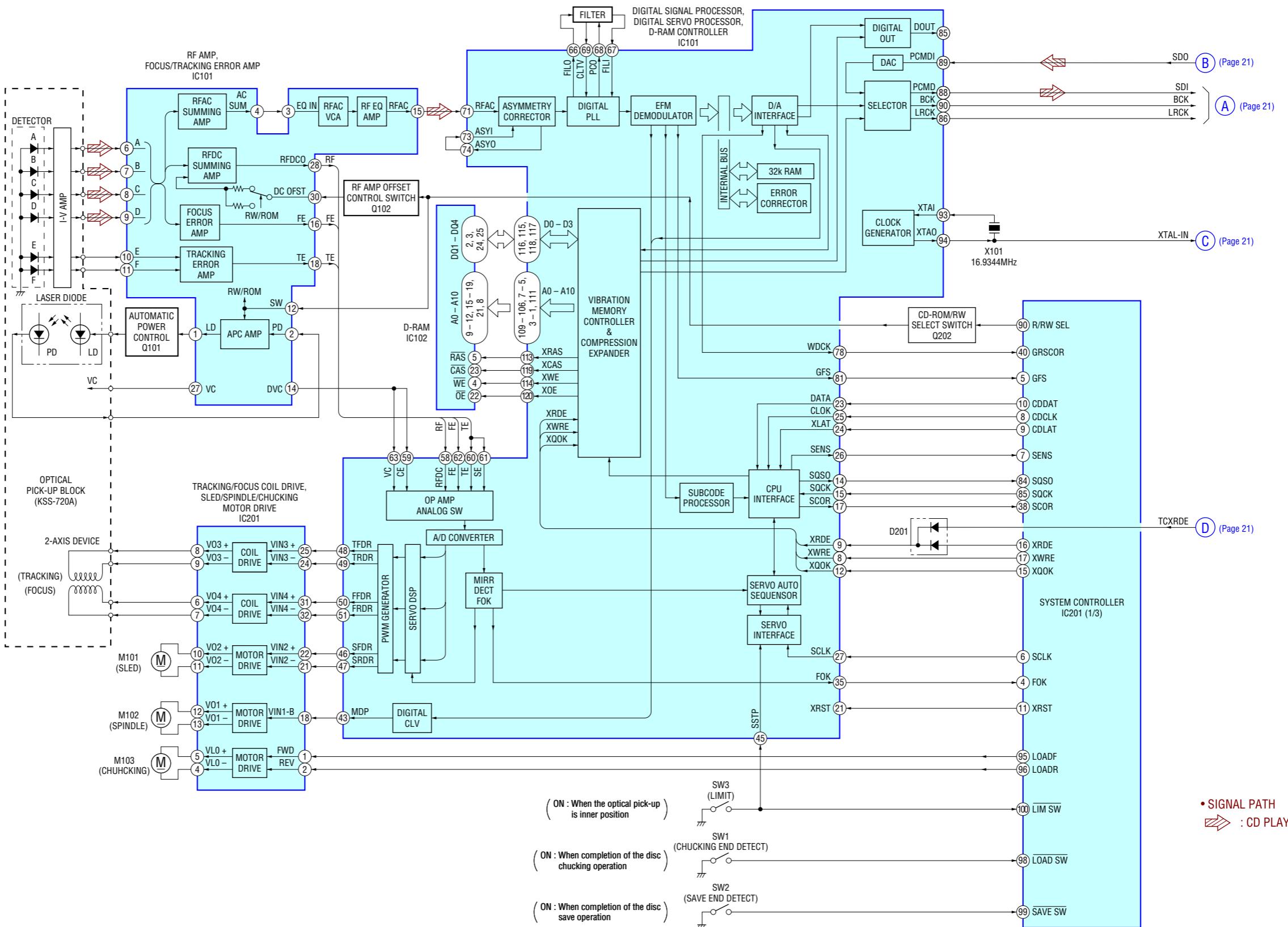
1. Connect the oscilloscope to TP (TE) and TP (VC) on the RF board.
2. Put the set into play mode by loading the disc (YEDS-18).
3. Press the **[◀◀ AMS ▶▶]** button on the master unit, and check the traverse waveform*.
4. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V dc, and check this level.

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

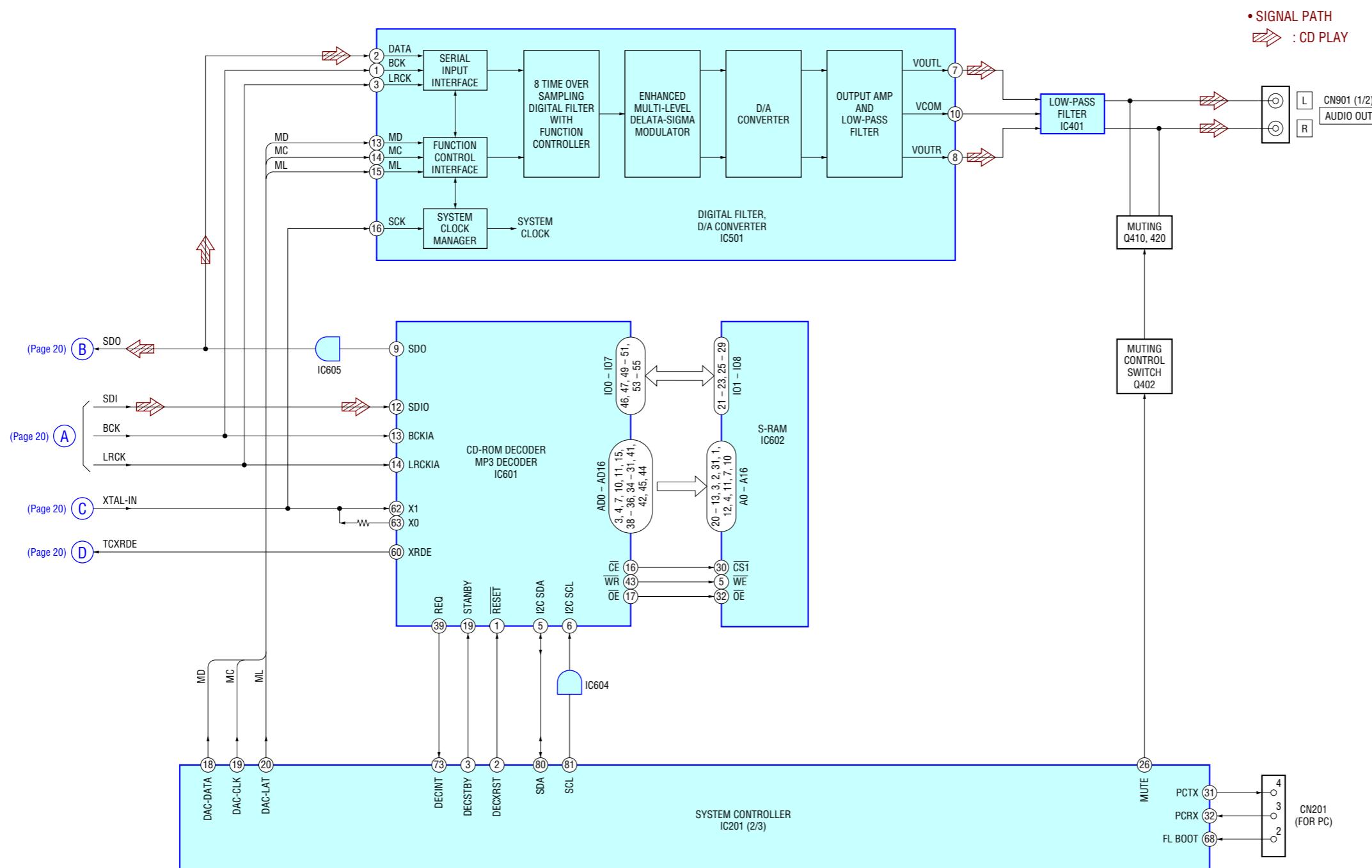


SECTION 6 DIAGRAMS

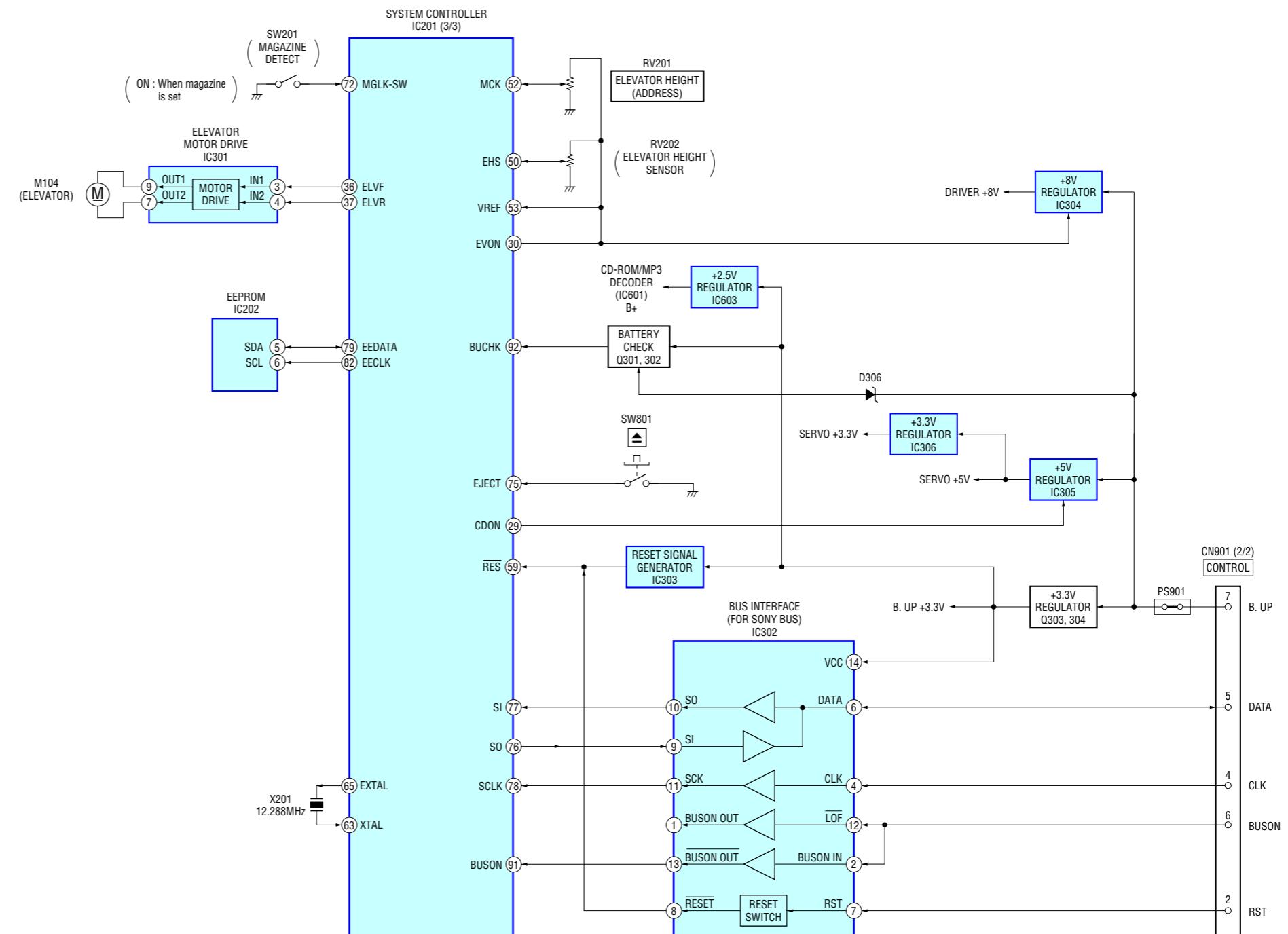
6-1. BLOCK DIAGRAM – SERVO Section –



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

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : internal component.
- : panel designation.

Note:

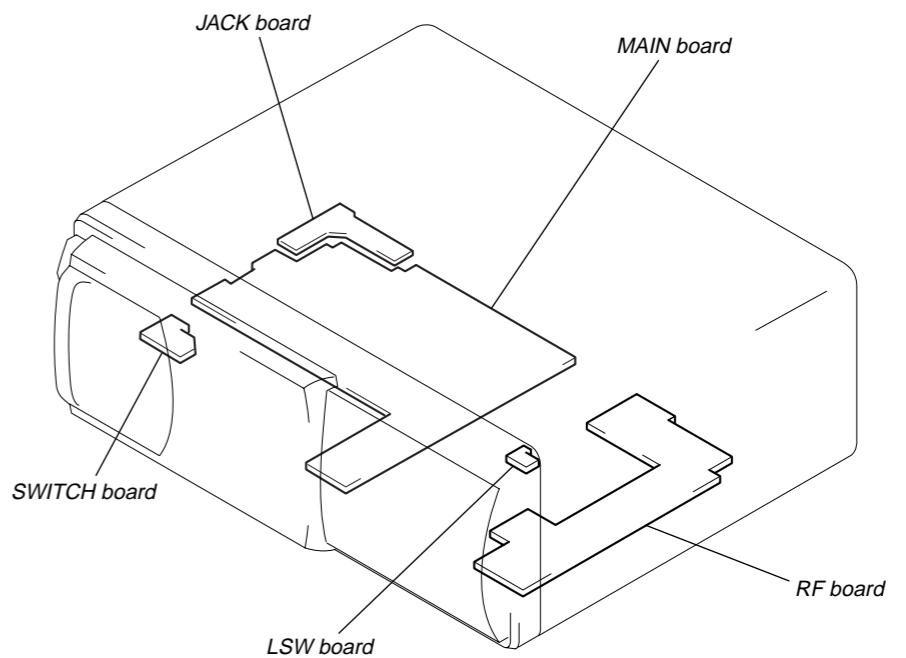
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:

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 CD changer controller.
- Voltages and waveforms are dc with respect to ground in CD play conditions.
no mark : CD PLAY
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : CD PLAY

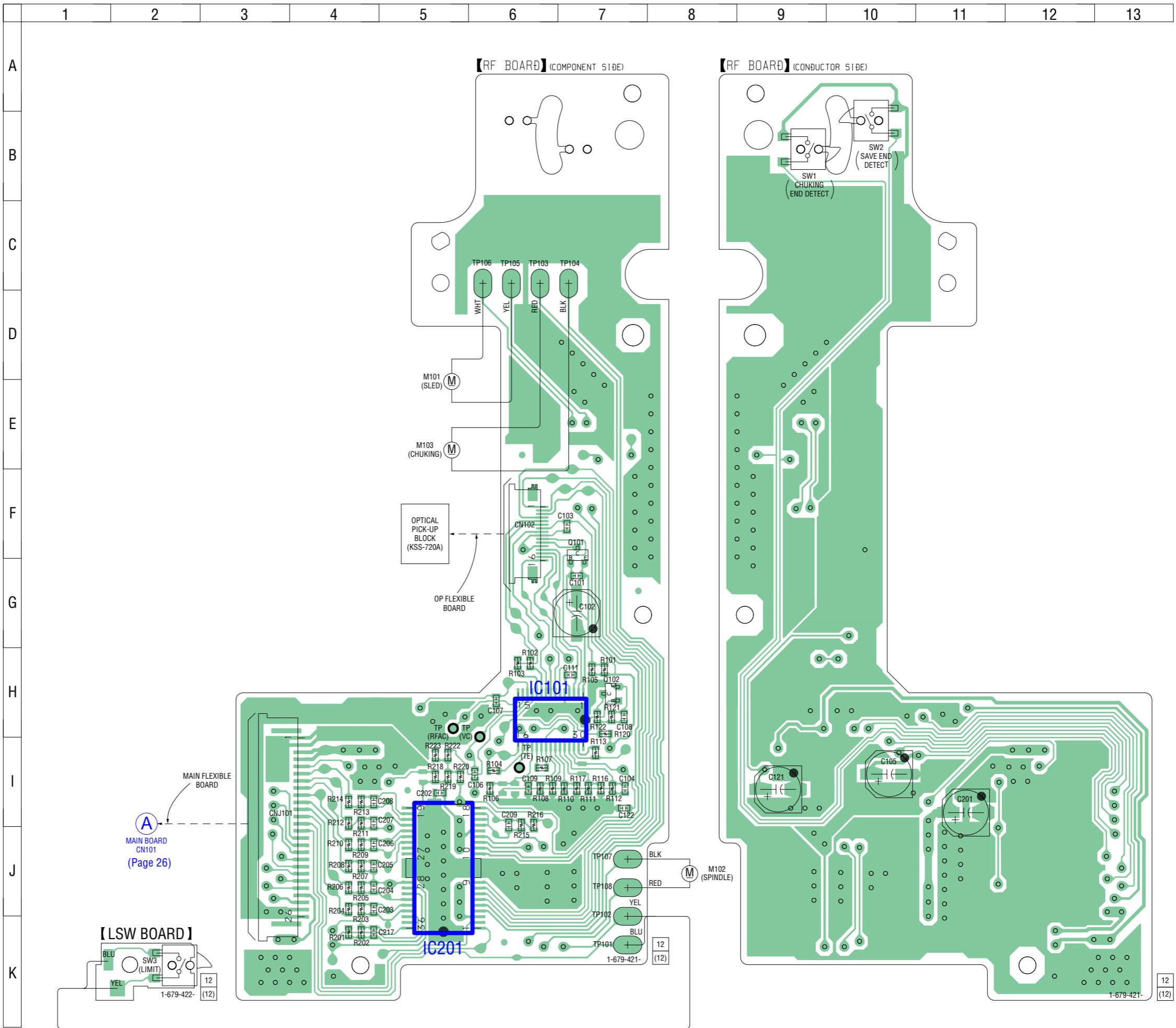
• Circuit Boards Location



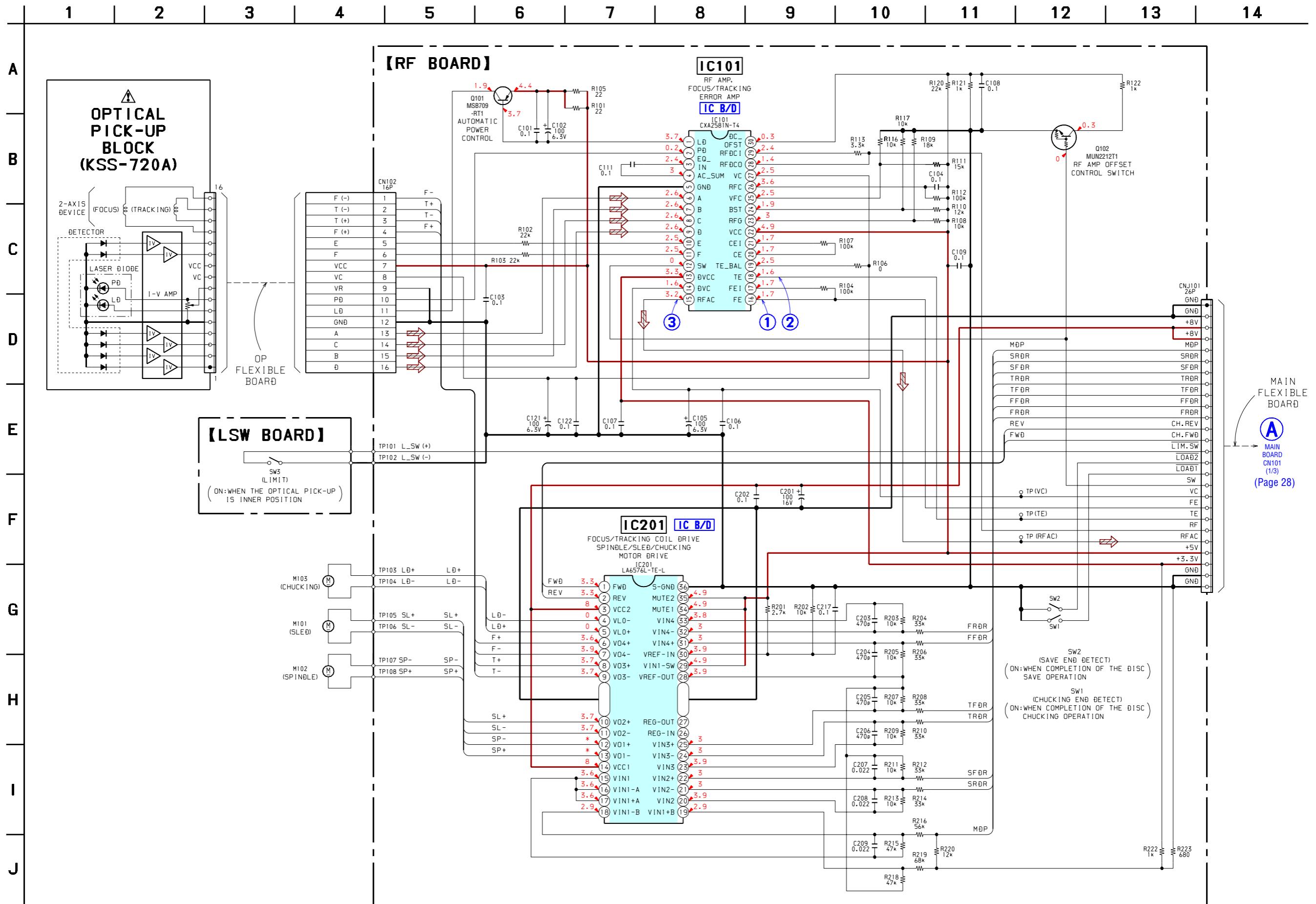
6-5. PRINTED WIRING BOARDS – RF/LSW Boards – • See page 23 for Circuit Boards Location.

• Semiconductor Location

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



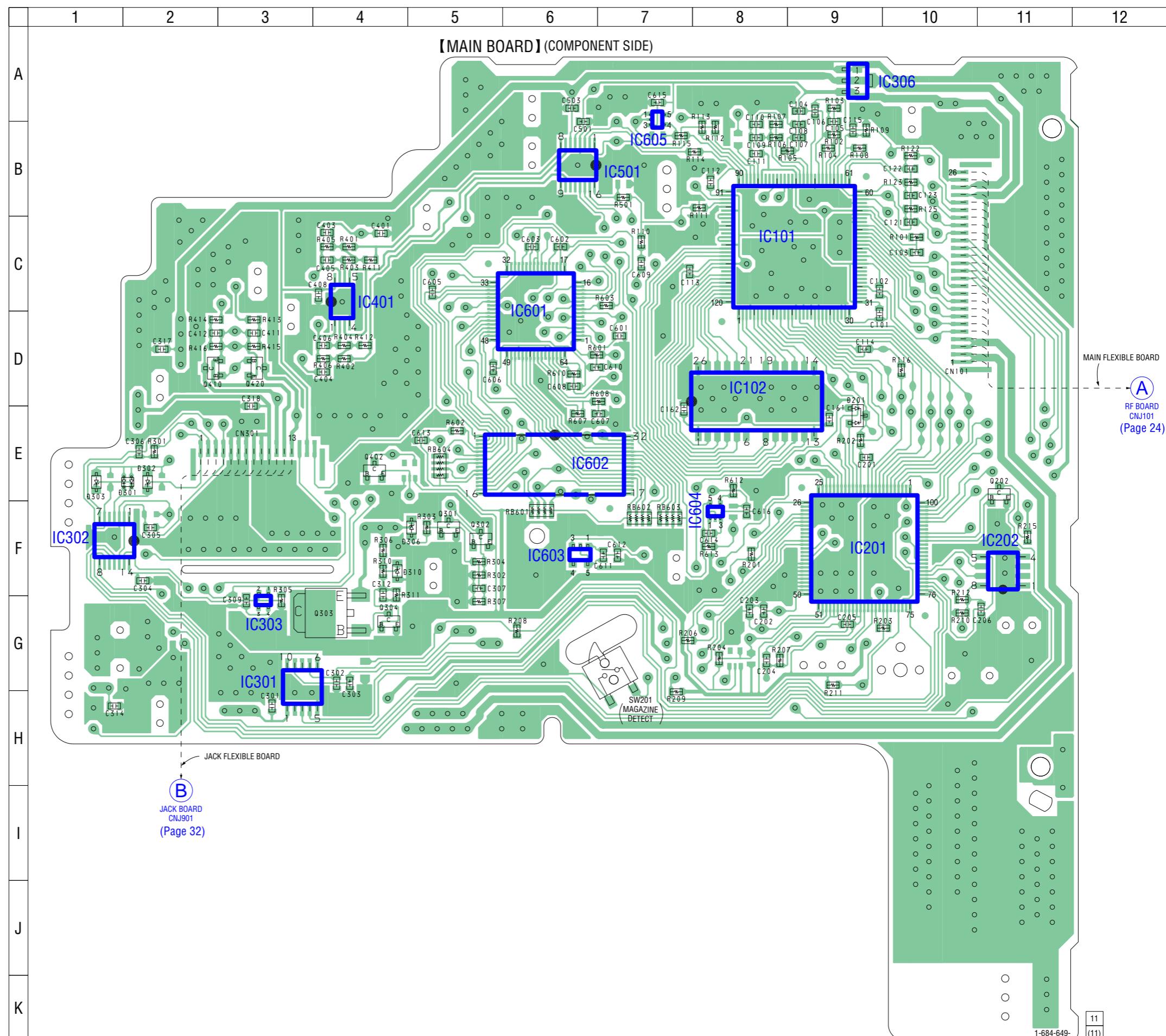
6-6. SCHEMATIC DIAGRAM – RF/LSW Boards – • See page 31 for Waveforms. • See page 34 for IC Block Diagrams.



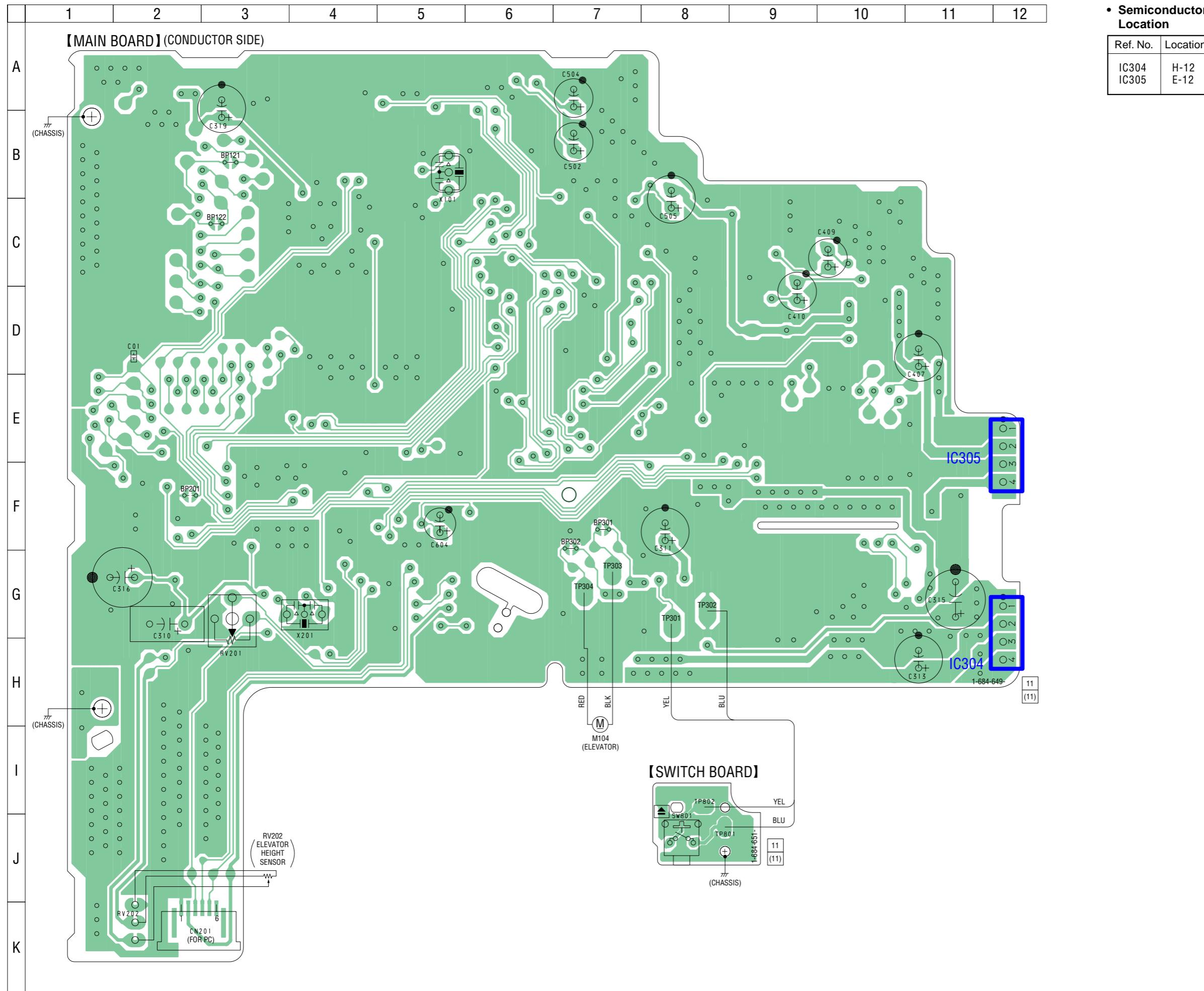
6-7. PRINTED WIRING BOARDS – MAIN Board (Component Side) – • See page 23 for Circuit Boards Location.

• Semiconductor Location

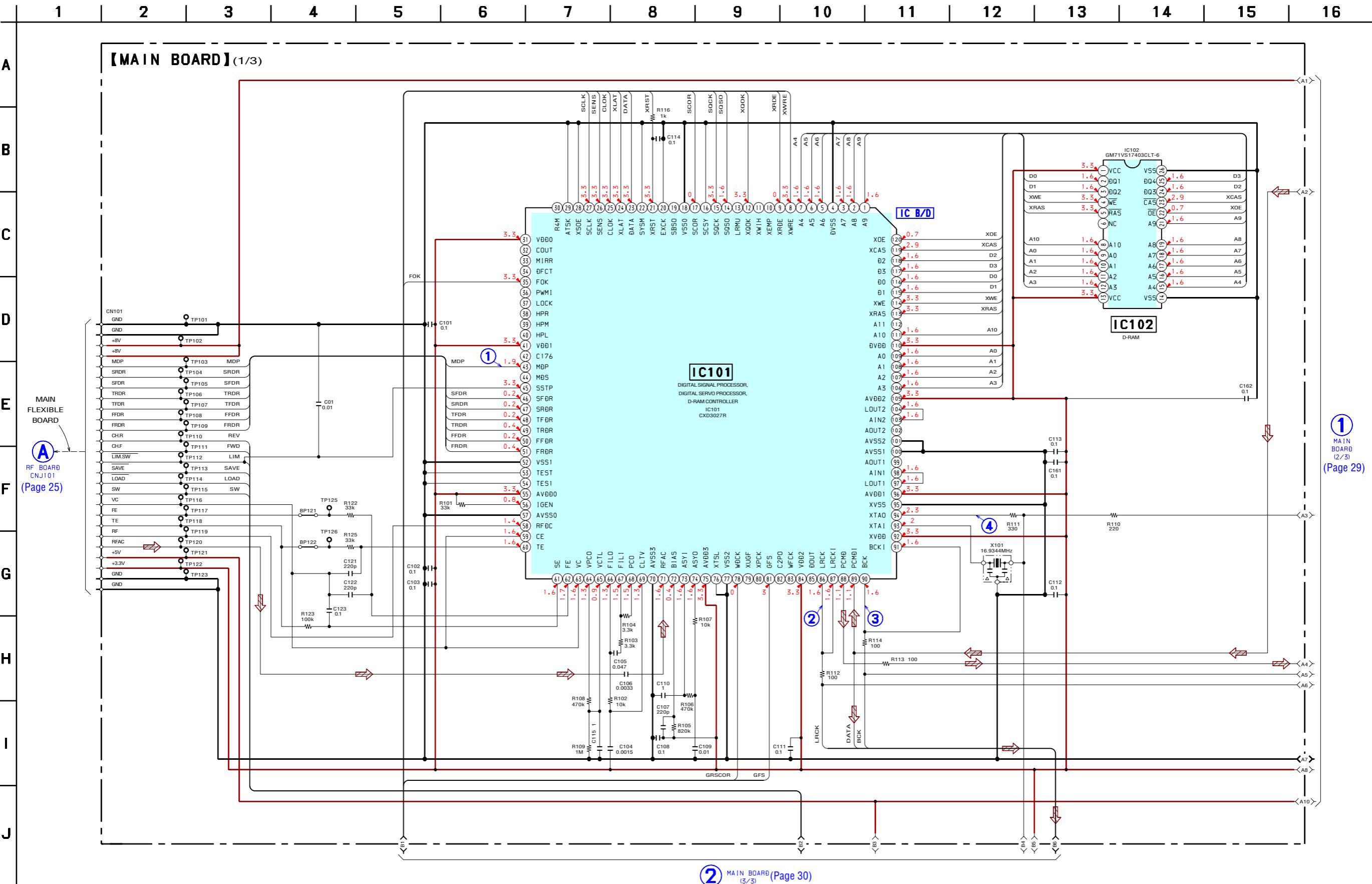
Ref. No.	Location
D201	E-9
D301	E-2
D302	E-2
D303	E-1
D306	F-5
D310	F-4
IC101	C-9
IC102	D-8
IC201	F-9
IC202	F-11
IC301	G-3
IC302	F-1
IC303	G-3
IC306	A-9
IC401	C-4
IC501	B-6
IC601	C-6
IC602	E-6
IC603	F-6
IC604	F-8
IC605	B-7
Q202	E-11
Q301	F-5
Q302	F-5
Q303	G-4
Q304	G-4
Q402	E-4
Q410	D-2
Q420	D-3



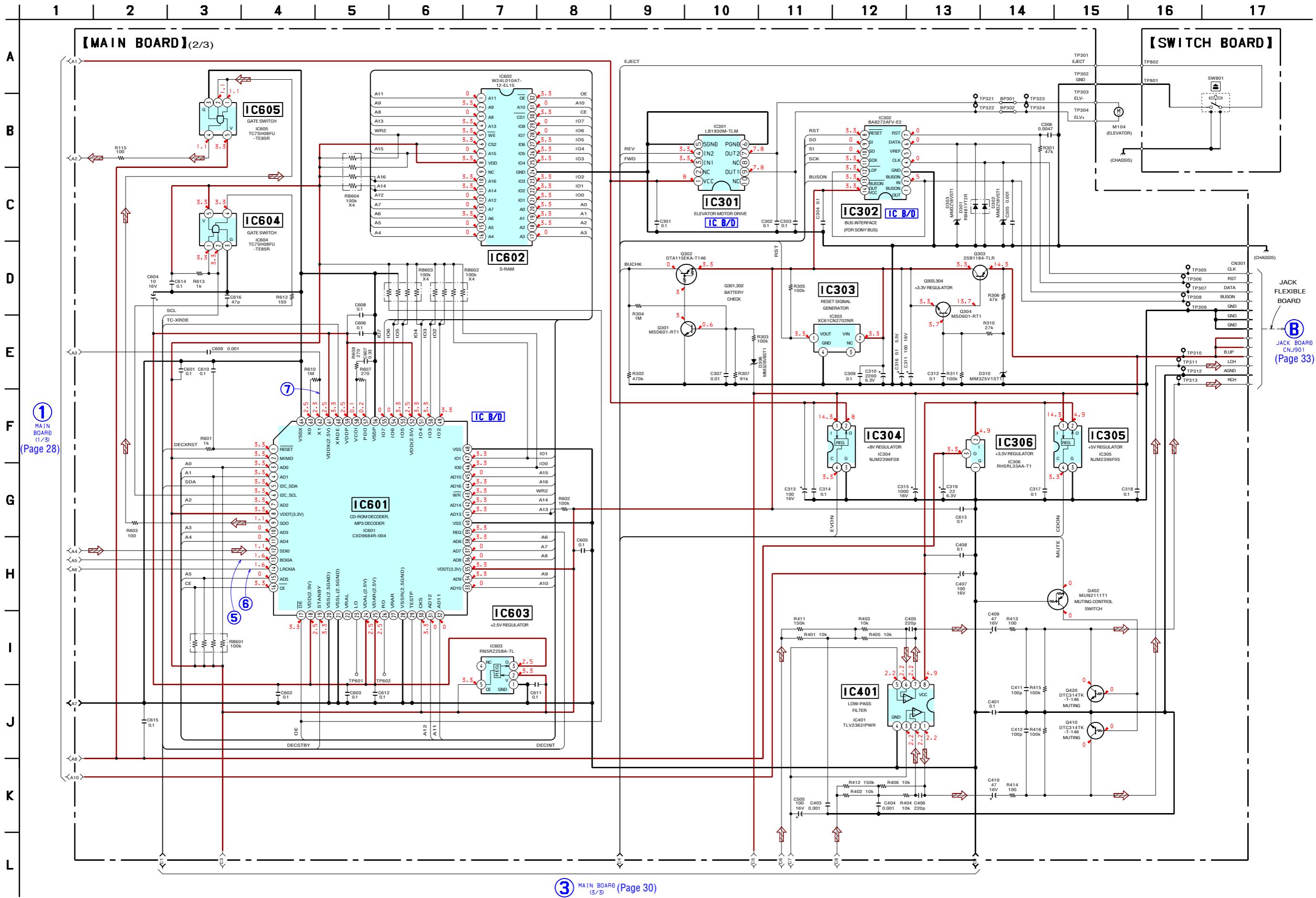
6-8. PRINTED WIRING BOARDS – MAIN (Conductor Side)/SWITCH Boards – • See page 23 for Circuit Boards Location.



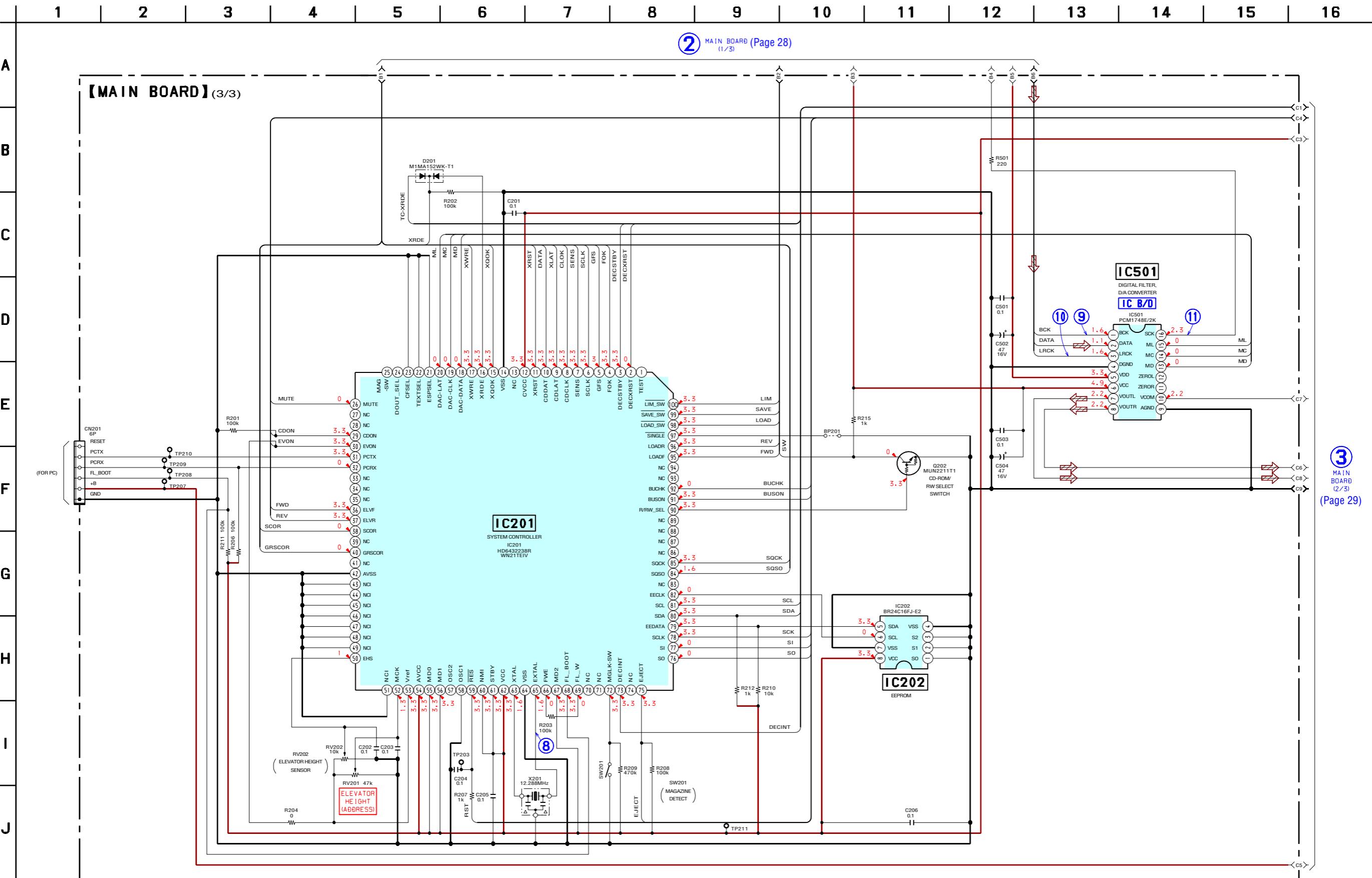
6-9. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 31 for Waveforms. • See page 34 for IC Block Diagram.



6-10. SCHEMATIC DIAGRAM – MAIN (2/3)/SWITCH Boards – • See page 31 for Waveforms. • See page 34 for IC Block Diagrams.

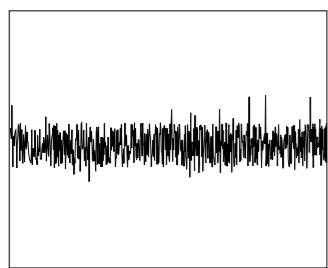


6-11. SCHEMATIC DIAGRAM – MAIN Board (3/3) – • See page 31 for Waveforms. • See page 34 for IC Block Diagram.



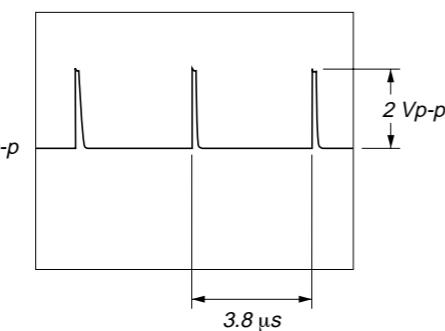
• Waveforms
– RF Board –

① IC101 ⑩ (FE)

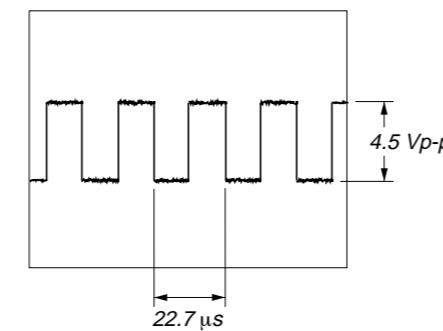


– MAIN Board –

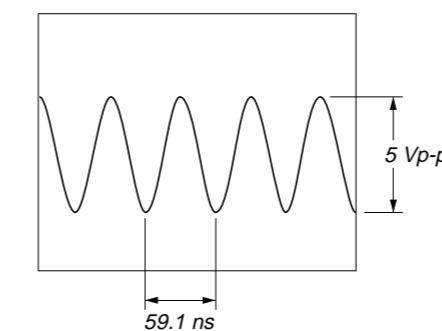
① IC101 ④ (MDP)



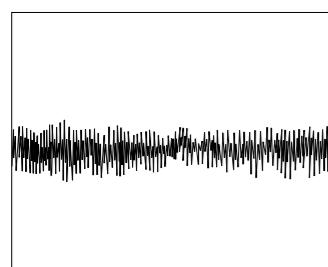
⑥ IC601 ⑭ (LRCKIA)



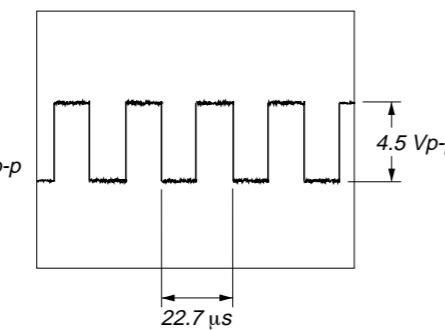
⑪ IC501 ⑯ (SCK)



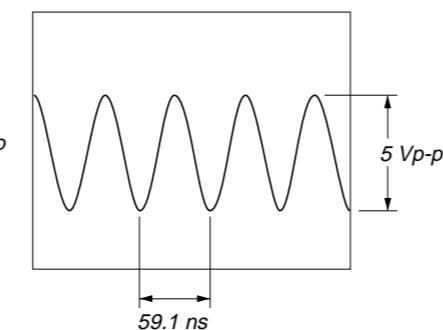
② IC101 ⑩ (TE)



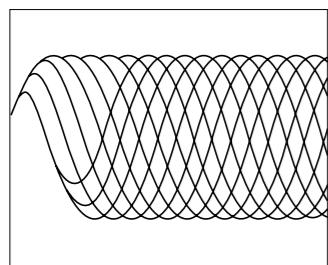
② IC101 ⑥ (LRCK), ⑦ (LRCKI)



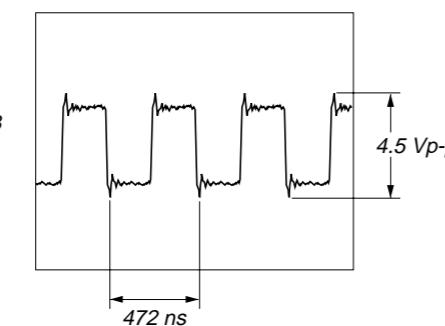
⑦ IC601 ⑫ (X1)



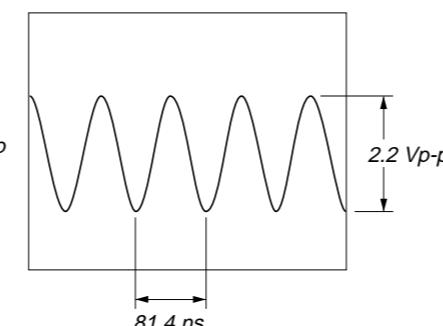
③ IC101 ⑨ (RFAC)



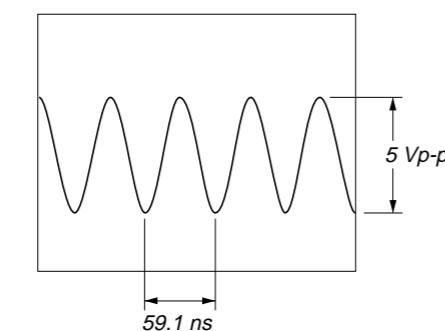
③ IC101 ⑨ (BCK), ⑩(BCKI)



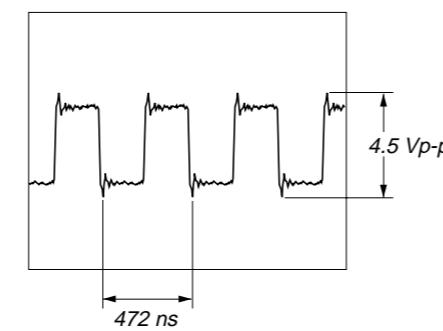
⑧ IC201 ⑤ (EXTAL)



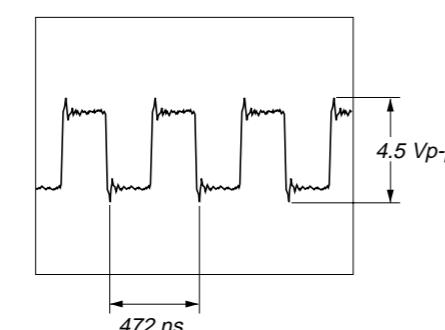
④ IC101 ⑨ (XTAO)



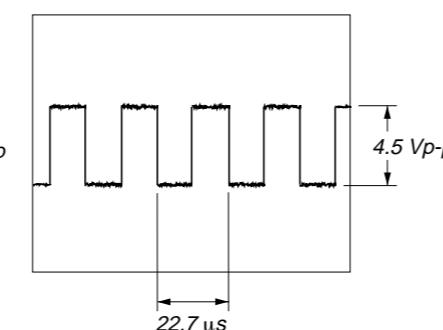
⑨ IC501 ① (BCK)



⑤ IC601 ⑬ (BCKIA)

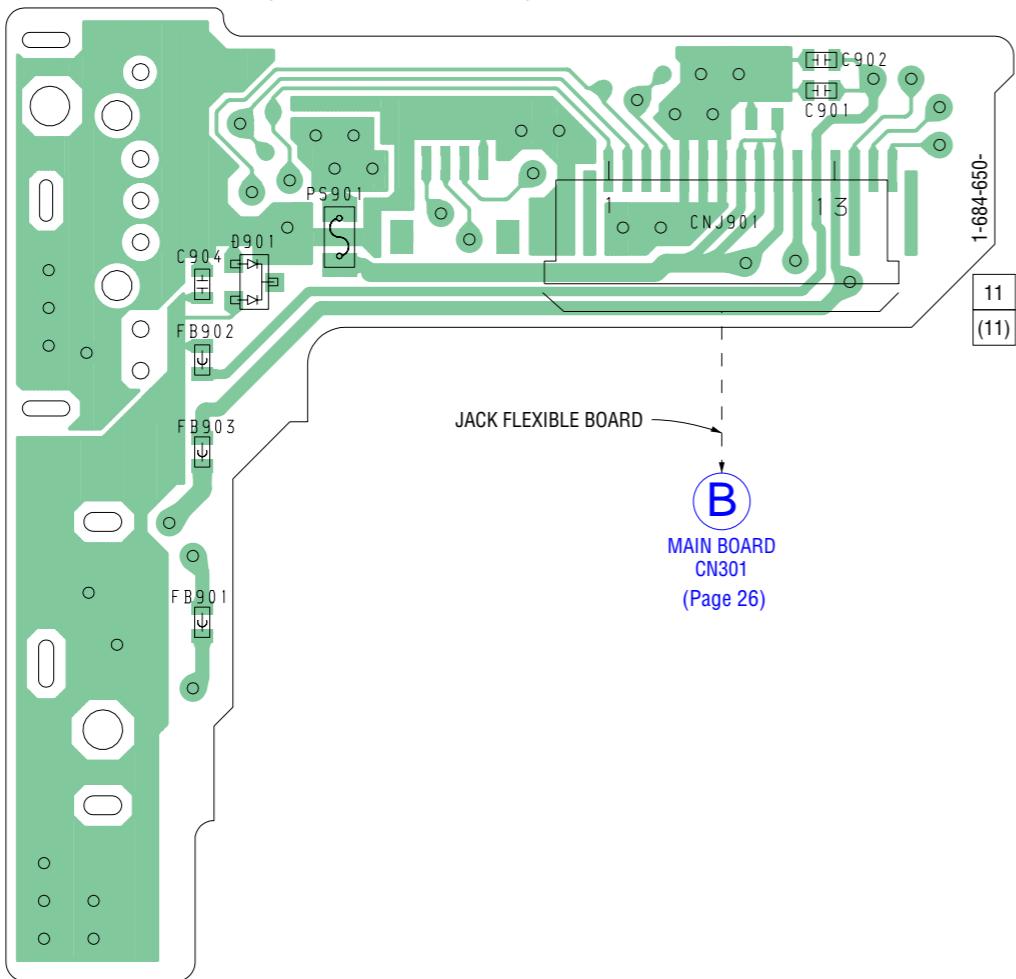


⑩ IC501 ③ (LRCK)

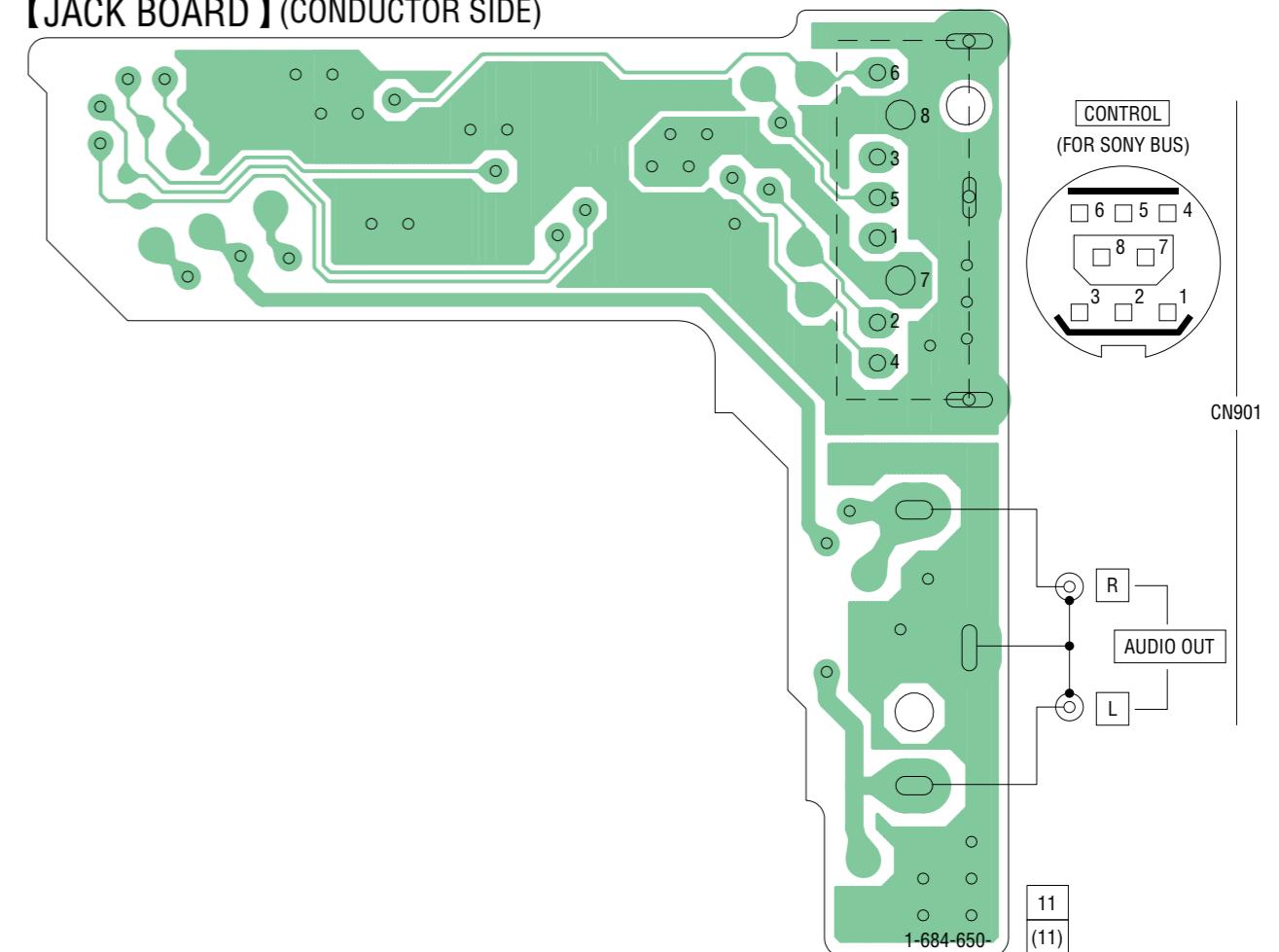


6-12. PRINTED WIRING BOARDS – JACK Board – • See page 23 for Circuit Boards Location.

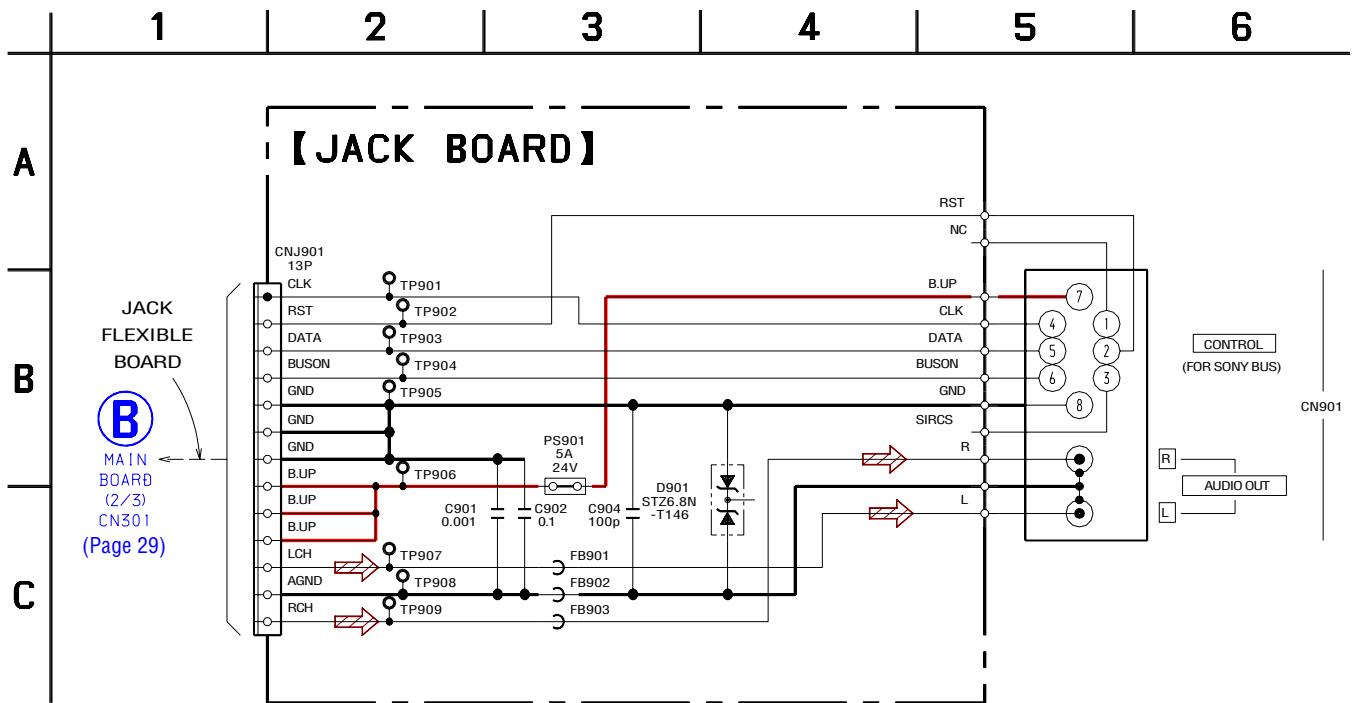
【JACK BOARD】(COMPONENT SIDE)



【JACK BOARD】(CONDUCTOR SIDE)



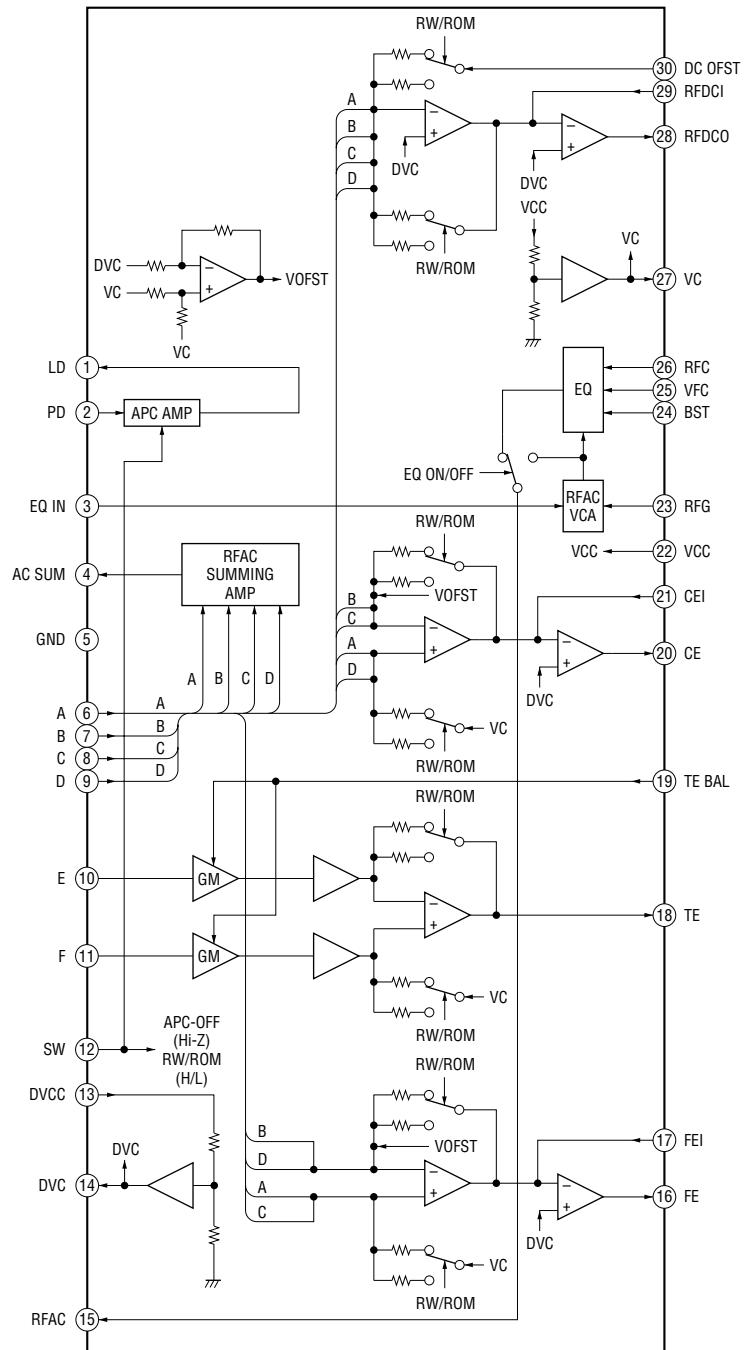
6-13. SCHEMATIC DIAGRAM – JACK Board –



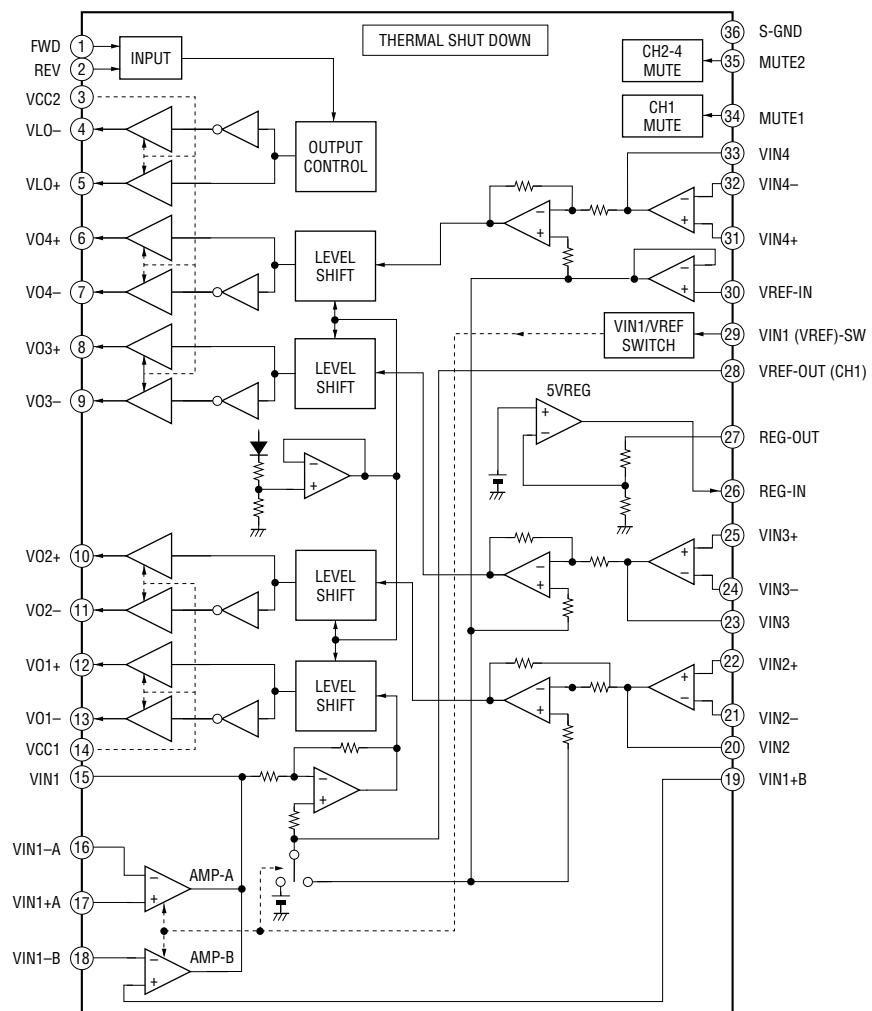
CDX-757MX

- IC Block Diagrams
- RF Board -

IC101 CXA2581N-T4



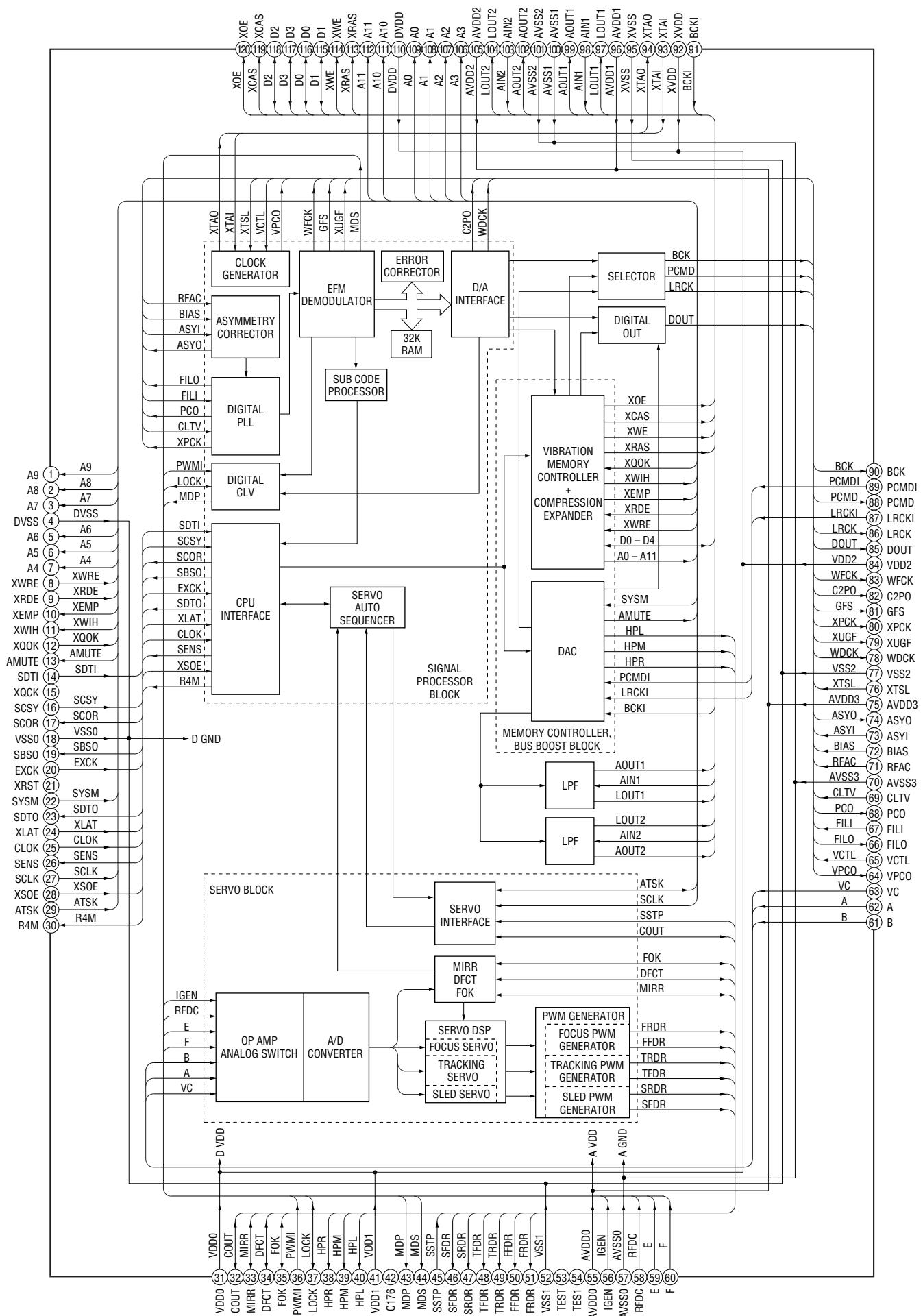
IC201 LA6576L-TE-L



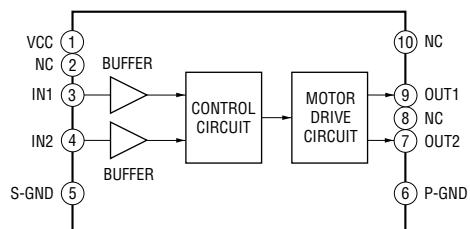
CDX-757MX

– MAIN Board –

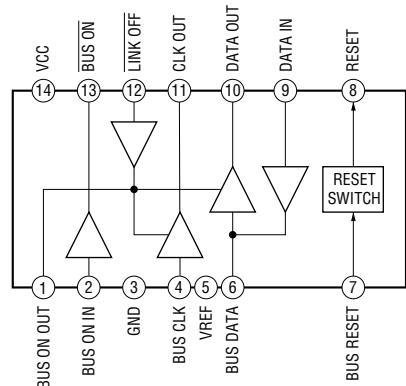
IC101 CXD3027R



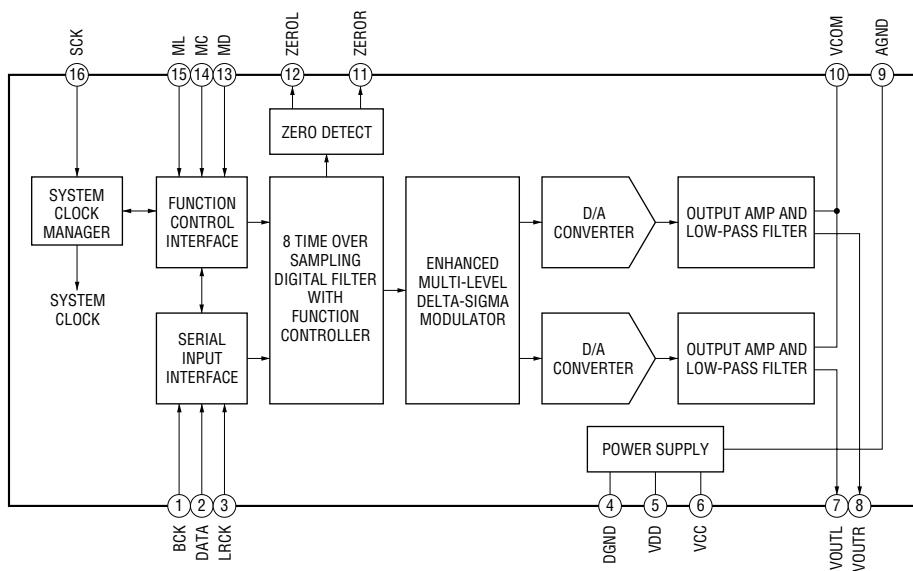
IC301 LB1930M-TLM



IC302 BA8272AFV-E2

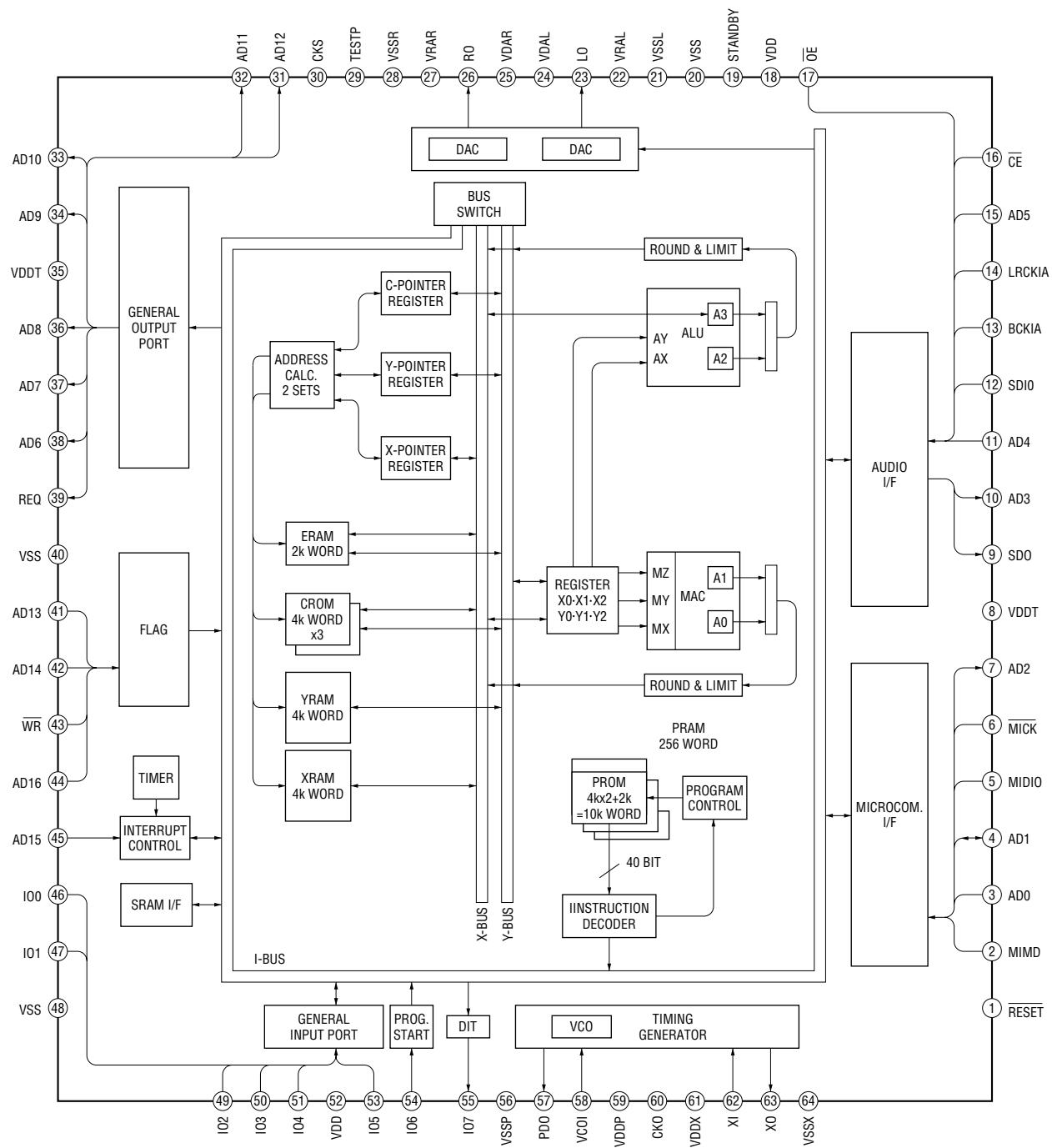


IC501 PCM1748E/2K



CDX-757MX

IC601 CXD9684R-004



6-14. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC201 HD6432238RWN21TEIV (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 to the D/A converter
19	DAC-CLK	O	Mode control data transfer clock signal output to the D/A converter
20	DAC-LAT	O	Mode control data latch pulse signal output to the D/A converter
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 (fixed at “L” in this set)
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, 28	NC	O	Not used
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
32	PCRX	I	PC connecting input terminal for UART
33 to 35	NC	O	Not used
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	NC	O	Not used
40	GRSCOR	I	Subcode sync (S0+S1) detection signal input from the DSP
41	NC	O	Not used
42	AVSS	—	Ground terminal (for A/D converter)
43 to 49	NCI	I	Not used
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)

Pin No.	Pin Name	I/O	Description
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	<u>RES</u>	I	System reset signal input from the SONY bus interface 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	FEW	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
69	FL W	O	Flash memory data write control signal output (connecting FEW (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	SO	O	Serial data output to the SONY bus interface
77	SI	I	Serial data input from the SONY bus interface
78	SCLK	I	Serial data transfer clock signal input from the SONY bus interface
79	EEDATA	I/O	Two-way data bus with the EEPROM
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
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 to 89	NC	O	Not used
90	R/RW SEL	O	CD-ROM/RW selection signal output “L”: CD-RW, “H”: CD-ROM
91	BUSON	I	Bus on/off control signal input from the SONY bus interface “L”: bus 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
96	LOADR	O	Motor drive signal (save direction) output to the chucking motor drive
97	<u>SINGLE</u>	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	<u>LOAD SW</u>	I	Chuck end detect switch input terminal “L”: When completion of the disc chucking operation
99	<u>SAVE SW</u>	I	Save end detect switch input terminal “L”: When completion of the disc save operation
100	<u>LIM SW</u>	I	Sled limit in detect switch input terminal “L”: When the optical pick-up is inner position

SECTION 7 EXPLODED VIEWS

NOTE:

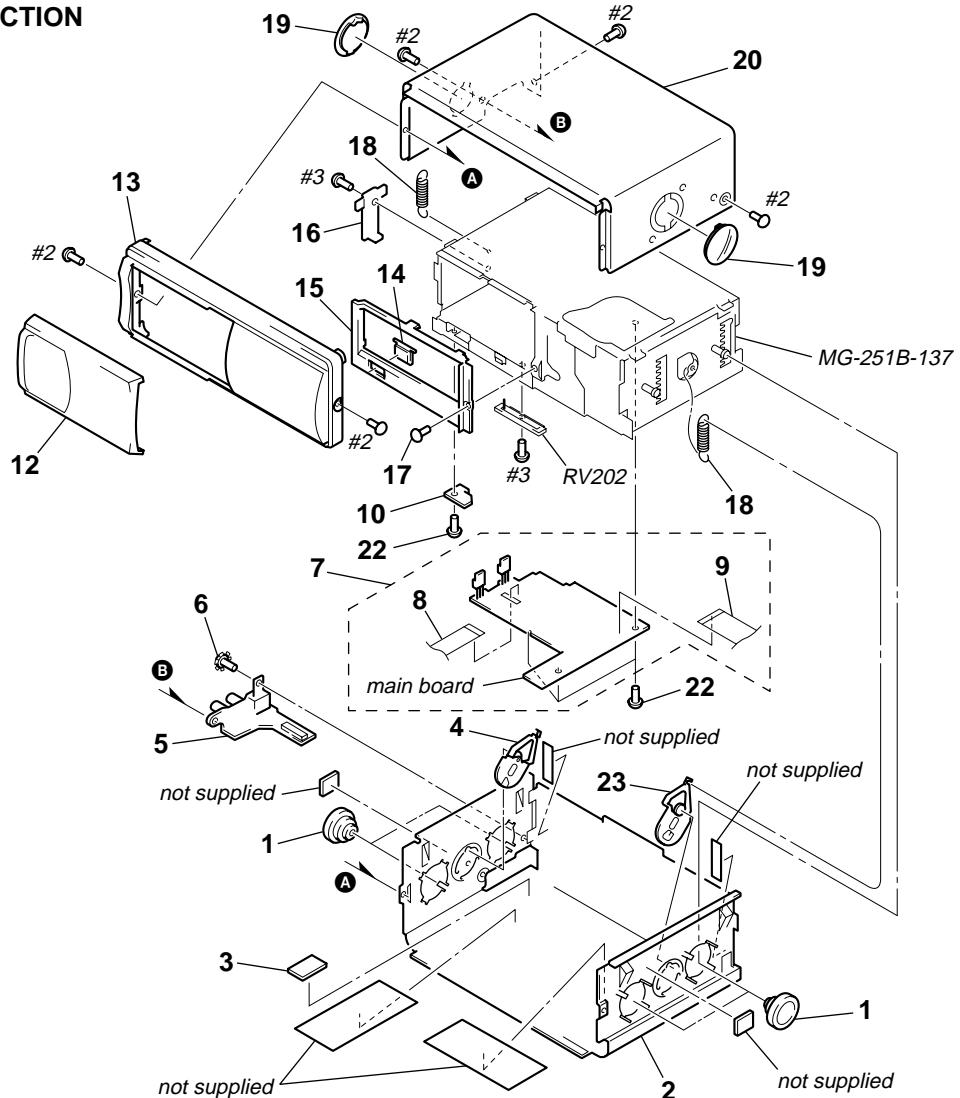
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

↑
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.
- Accessories are given in the last of the electrical parts list.

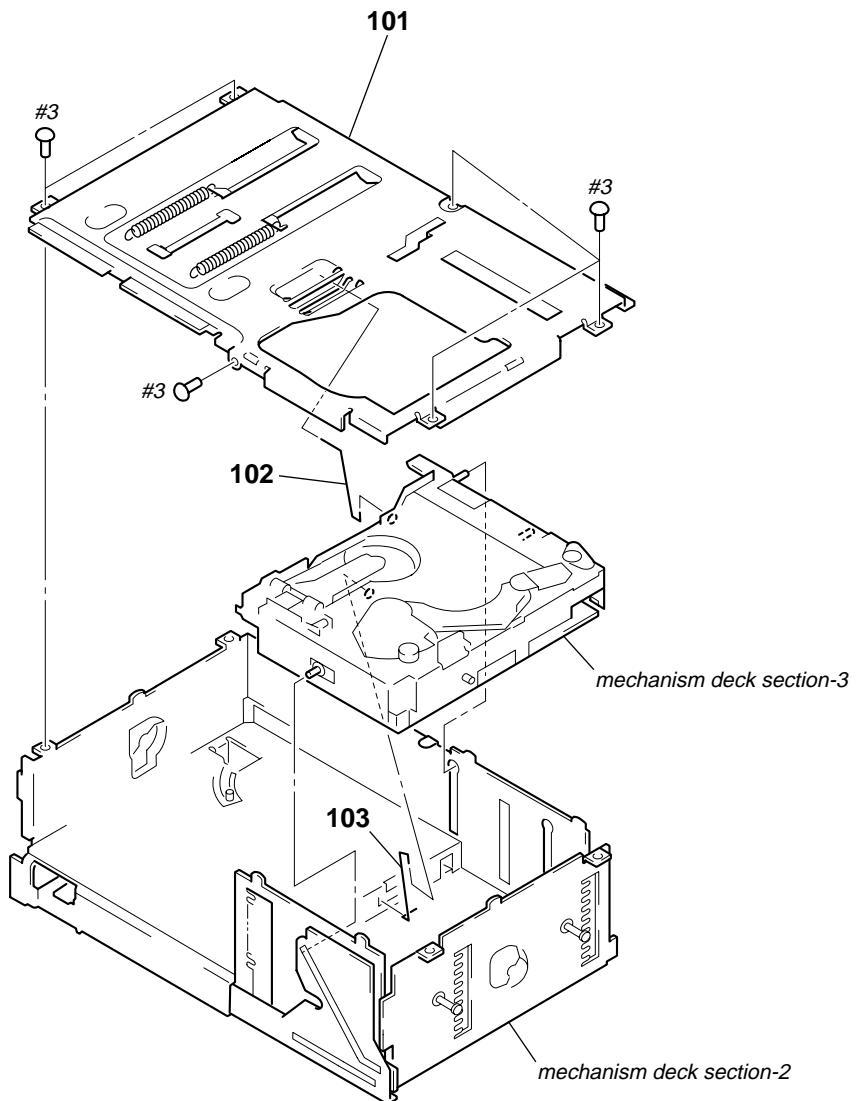
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

7-1. CASE SECTION

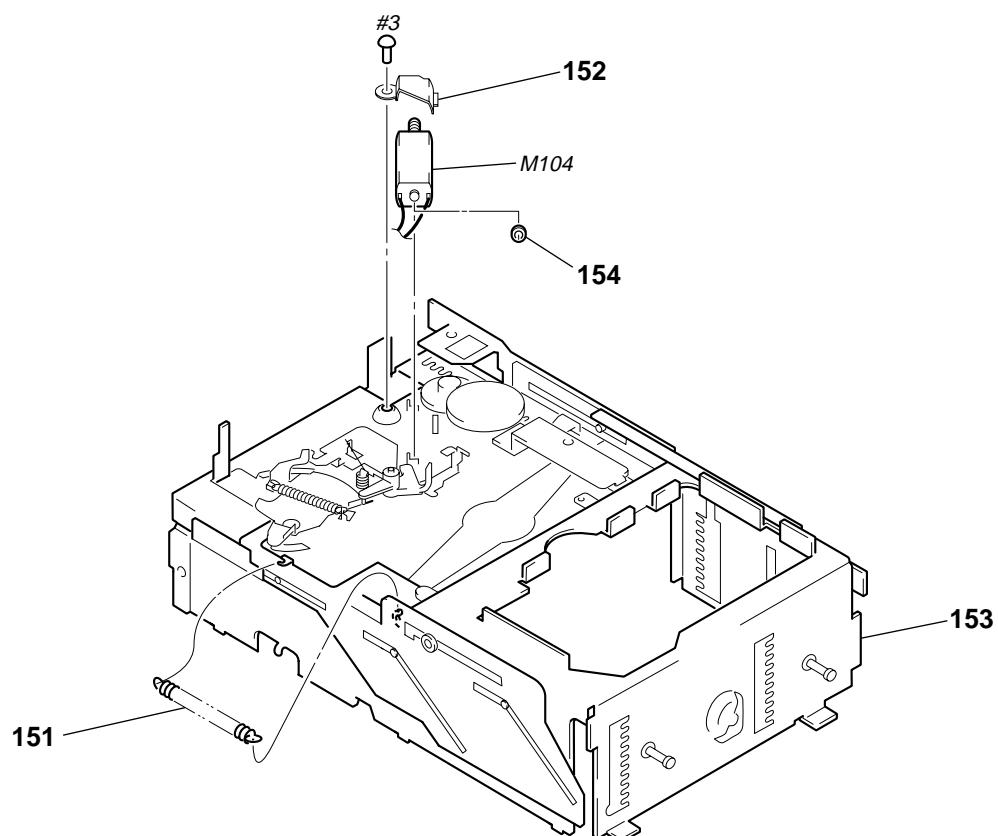
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-047-852-01	DAMPER (T)		15	3-041-218-21	ESCUTCHEON (T)	
2	3-237-553-11	CASE (LOWER. T)		* 16	3-022-012-01	HEAT SINK (T)	
* 3	3-024-065-01	CUSHION (EJECT-T)		17	3-042-244-11	SCREW (T)	
4	X-3375-357-1	ARM (FLT) ASSY		18	3-038-166-01	SPRING (FL), TENSION COIL	
5	1-684-650-11	JACK BOARD		19	3-047-886-11	LEVER (FLT. 838)	
6	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		20	3-237-609-11	CASE (UPPER. T)	
7	A-3274-196-A	MAIN BOARD, COMPLETE		22	3-935-636-11	SCREW (FP)	
8	1-676-340-12	JACK FLEXIBLE BOARD		23	X-3375-360-2	ARM (FRT) ASSY	
9	1-676-339-12	MAIN FLEXIBLE BOARD		RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	
10	1-684-651-11	SWITCH BOARD		#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
12	X-3381-744-1	DOOR (M) ASSY		#3	7-685-781-09	SCREW +PTT 2X4 (S)	
13	3-229-226-21	PANEL, FRONT					
14	3-022-007-02	BUTTON (EJT) (\triangle)					

**7-2. MECHANISM DECK SECTION-1
(MG-251B-137)**



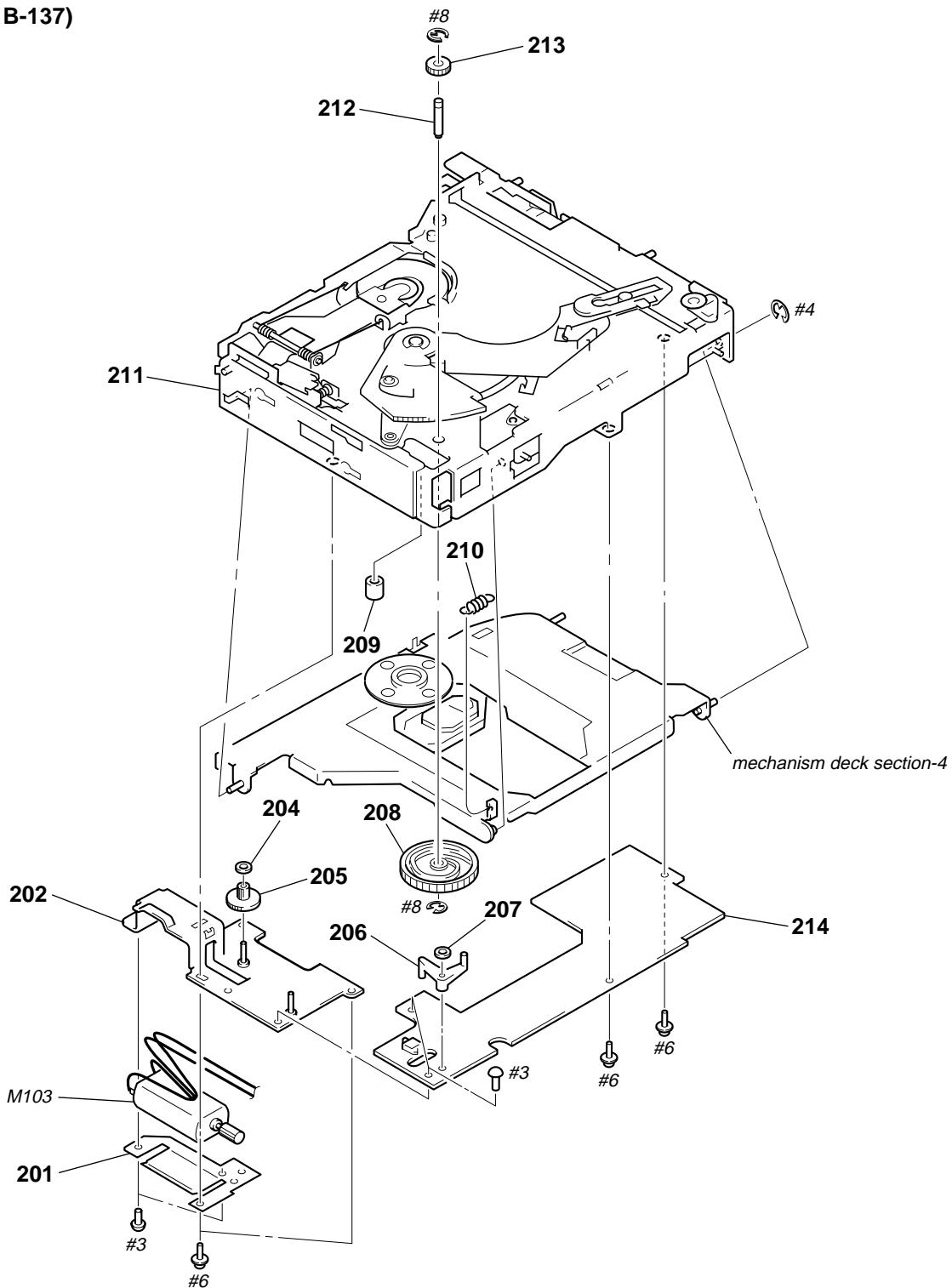
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	X-3378-091-1	CHASSIS (U. S) SUB ASSY		103	3-011-997-01	SPRING (STOPPER. LOWER)	
102	3-024-161-01	SPRING (SUT)		#3	7-685-781-09	SCREW +PTT 2X4 (S)	

**7-3. MECHANISM DECK SECTION-2
(MG-251B-137)**



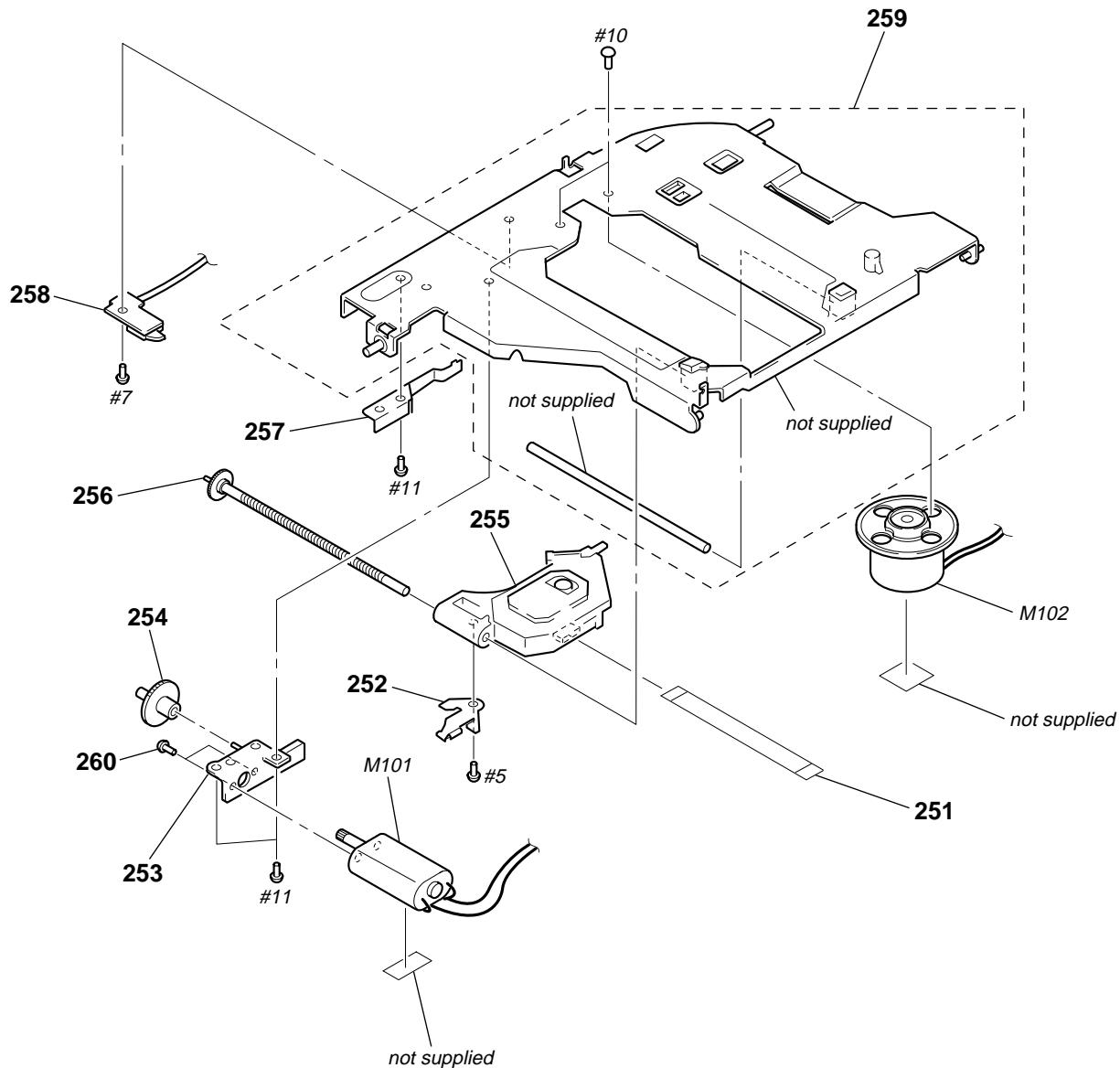
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-024-170-01	SPRING (SB), TENSION		* 154	3-014-685-01	SPACER (MO)	
* 152	3-040-790-02	BRACKET (EVM. S)		M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	
153	X-3378-092-7	CHASSIS (D. S) SUB ASSY		#3	7-685-781-09	SCREW +PTT 2X4 (S)	

**7-4. MECHANISM DECK SECTION-3
(MG-251B-137)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 201	3-024-150-01	RETAINER (CHM)		* 211	A-3290-194-M	MAIN ASSY, CHASSIS (EVY)	
* 202	X-3378-080-1	BRACKET (CHM. D) ASSY		212	3-010-254-11	SHAFT (ROTARY PREVENTION C)	
204	3-321-813-01	WASHER, COTTER POLYETHYLENE		213	3-010-253-01	GEAR (LOMINI)	
205	3-017-139-01	GEAR (WORM LOAD A)		* 214	A-3326-947-A	RF BOARD, COMPLETE	
206	3-022-839-02	ARM (NSW)		M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)	
207	3-573-936-00	STOPPER, REEL		#3	7-685-781-09	SCREW +PTT 2X4 (S)	
208	X-3373-552-1	GEAR (LOAD 1) ASSY		#4	7-624-104-04	STOP RING 2.0, TYPE-E	
209	3-010-252-11	ROLLER (CRE)		#6	7-628-253-00	SCREW +PS 2X4	
210	3-010-268-01	SPRING (DH), TENSION		#8	7-624-102-04	STOP RING 1.5, TYPE-E	

**7-5. MECHANISM DECK SECTION-4
(MG-251B-137)**



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

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

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

NOTE:

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

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA... : μ A... uPA... : μ PA...
uPB... : μ PB... uPC... : μ PC...
uPD... : μ PD...
• CAPACITORS
uF: μ F
• COILS
uH: μ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-684-650-11	JACK BOARD	*****	C106	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
				C107	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
		< CAPACITOR >		C108	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C109	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C901	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C110	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
C902	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C111	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C904	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C112	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< CONNECTOR >		C113	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C114	1-164-156-11	CERAMIC CHIP	0.1uF 25V
CN901	1-779-077-51	PLUG, CONNECTOR (CONTROL, AUDIO OUT)		C115	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
CNJ901	1-778-775-21	CONNECTOR, FPC 13P		C121	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
		< DIODE >		C122	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
D901	8-719-067-40	DIODE STZ6.8N-T146		C123	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
		< FERRITE BEAD >		C161	1-164-156-11	CERAMIC CHIP	0.1uF 25V
FB901	1-469-179-21	FERRITE		C162	1-164-156-11	CERAMIC CHIP	0.1uF 25V
FB902	1-469-179-21	FERRITE		C201	1-164-156-11	CERAMIC CHIP	0.1uF 25V
FB903	1-469-179-21	FERRITE		C202	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< FUSE >		C203	1-164-156-11	CERAMIC CHIP	0.1uF 25V
PS901	1-576-592-21	FUSE (SMD) 5A 24V		C204	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V

*	1-679-422-12	LSW BOARD	*****	C205	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< SWITCH >		C206	1-164-156-11	CERAMIC CHIP	0.1uF 25V
SW3	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)		C301	1-164-156-11	CERAMIC CHIP	0.1uF 25V

	A-3274-196-A	MAIN BOARD, COMPLETE	*****	C302	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C303	1-164-156-11	CERAMIC CHIP	0.1uF 25V
1-676-339-12	MAIN FLEXIBLE BOARD			C304	1-164-156-11	CERAMIC CHIP	0.1uF 25V
1-676-340-12	JACK FLEXIBLE BOARD			C305	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
		< CAPACITOR >		C306	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C01	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C307	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C101	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C309	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C102	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C310	1-104-656-11	ELECT	2200uF 6.3V
C103	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C311	1-126-382-11	ELECT	100uF 20% 16V
C104	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	C312	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C105	1-165-176-11	CERAMIC CHIP	0.047uF 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	1-125-710-11	DOUBLE LAYER	0.1F 5.5V
				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
				C401	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C403	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C404	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C405	1-164-230-11	CERAMIC CHIP	220PF 10% 50V
				C406	1-164-230-11	CERAMIC CHIP	220PF 10% 50V

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark								
< TRANSISTOR >																	
C407	1-115-651-11	ELECT	100uF	20%	16V	Q202	8-729-421-22	TRANSISTOR	MUN2211T1								
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q301	8-729-010-25	TRANSISTOR	MSD601-RT1								
C409	1-115-650-11	ELECT	47uF	20%	16V	Q302	8-729-028-62	TRANSISTOR	DTA115EKA-T146								
C410	1-115-650-11	ELECT	47uF	20%	16V	Q303	8-729-922-47	TRANSISTOR	2SB1184-TLR								
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q304	8-729-010-25	TRANSISTOR	MSD601-RT1								
C412	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	Q402	8-729-424-08	TRANSISTOR	MUN2111T1								
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q410	8-729-920-21	TRANSISTOR	DTC314TK-T-146								
C502	1-115-650-11	ELECT	47uF	20%	16V	Q420	8-729-920-21	TRANSISTOR	DTC314TK-T-146								
C503	1-164-156-11	CERAMIC CHIP	0.1uF		25V	< RESISTOR >											
C504	1-115-650-11	ELECT	47uF	20%	16V	R101	1-216-839-11	METAL CHIP	33K	5%	1/10W						
C505	1-115-651-11	ELECT	100uF	20%	16V	R102	1-216-833-11	METAL CHIP	10K	5%	1/10W						
C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R103	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R105	1-216-856-11	METAL CHIP	820K	5%	1/10W						
C604	1-126-791-11	ELECT	10uF	20%	16V	R106	1-216-853-11	METAL CHIP	470K	5%	1/10W						
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R107	1-216-833-11	METAL CHIP	10K	5%	1/10W						
C606	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R108	1-216-853-11	METAL CHIP	470K	5%	1/10W						
C607	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V	R109	1-216-857-11	METAL CHIP	1M	5%	1/10W						
C608	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R110	1-216-813-11	METAL CHIP	220	5%	1/10W						
C609	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	R111	1-216-815-11	METAL CHIP	330	5%	1/10W						
C610	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R112	1-216-809-11	METAL CHIP	100	5%	1/10W						
C611	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R113	1-216-809-11	METAL CHIP	100	5%	1/10W						
C612	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R114	1-216-809-11	METAL CHIP	100	5%	1/10W						
C613	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R115	1-216-809-11	METAL CHIP	100	5%	1/10W						
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R116	1-216-821-11	METAL CHIP	1K	5%	1/10W						
C615	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R122	1-216-839-11	METAL CHIP	33K	5%	1/10W						
C616	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	R123	1-216-845-11	METAL CHIP	100K	5%	1/10W						
< DIODE >																	
D201	8-719-050-38	DIODE	M1MA152WK-T1			R125	1-216-839-11	METAL CHIP	33K	5%	1/10W						
D301	6-500-054-01	DIODE	RB481YT2R			R201	1-216-845-11	METAL CHIP	100K	5%	1/10W						
D302	8-719-056-93	DIODE	MM3Z18VST1			R202	1-216-845-11	METAL CHIP	100K	5%	1/10W						
D303	8-719-056-93	DIODE	MM3Z18VST1			R203	1-216-845-11	METAL CHIP	100K	5%	1/10W						
D306	8-719-056-83	DIODE	MM3Z6V8ST1			R204	1-216-864-11	METAL CHIP	0	5%	1/10W						
D310	8-719-976-99	DIODE	MM3Z5V1ST1			R206	1-216-845-11	METAL CHIP	100K	5%	1/10W						
< IC >																	
IC101	8-752-398-18	IC	CXD3027R			R208	1-216-845-11	METAL CHIP	100K	5%	1/10W						
IC102	8-759-538-44	IC	MSM51V17400D-10TK-FS			R209	1-216-853-11	METAL CHIP	470K	5%	1/10W						
IC201	6-801-496-01	IC	HD6432238RWN21TEIV			R210	1-216-833-11	METAL CHIP	10K	5%	1/10W						
IC202	8-759-660-38	IC	BR24C16FJ-E2			R211	1-216-845-11	METAL CHIP	100K	5%	1/10W						
IC301	8-759-527-33	IC	LB1930M-TLM			R212	1-216-821-11	METAL CHIP	1K	5%	1/10W						
IC302	8-759-829-46	IC	BA8272AFV-E2			R215	1-216-821-11	METAL CHIP	1K	5%	1/10W						
IC303	6-702-148-01	IC	XC61CN2702NR			R301	1-216-841-11	METAL CHIP	47K	5%	1/10W						
IC304	6-702-147-01	IC	NJM2396F08			R302	1-216-853-11	METAL CHIP	470K	5%	1/10W						
IC305	6-702-146-01	IC	NJM2396F05			R303	1-216-845-11	METAL CHIP	100K	5%	1/10W						
IC306	8-759-444-93	IC	RH5RL33AA-T1			R304	1-216-857-11	METAL CHIP	1M	5%	1/10W						
IC401	8-759-662-11	IC	TLV2362IPWR			R305	1-216-845-11	METAL CHIP	100K	5%	1/10W						
IC501	8-759-825-13	IC	PCM1748E/2K			R306	1-216-841-11	METAL CHIP	47K	5%	1/10W						
IC601	6-700-297-01	IC	CXD9684R-004			R307	1-218-739-11	RES-CHIP	91K	5%	1/10W						
IC602	6-700-296-01	IC	W24L010AT-12-EL15			R310	1-216-838-11	METAL CHIP	27K	5%	1/10W						
IC603	8-759-645-31	IC	RN5RZ25BA-TL			R311	1-216-845-11	METAL CHIP	100K	5%	1/10W						
IC604	8-759-196-96	IC	TC7SH08FU-TE85R			R401	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						
IC605	8-759-196-96	IC	TC7SH08FU-TE85R			R402	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						
						R403	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						R404	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						R405	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						
						R406	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						

CDX-757MX

MAIN RF

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R411	1-216-847-11	METAL CHIP	150K	5%	1/10W	C209	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R412	1-216-847-11	METAL CHIP	150K	5%	1/10W	C217	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R413	1-216-809-11	METAL CHIP	100	5%	1/10W						< CONNECTOR >
R414	1-216-809-11	METAL CHIP	100	5%	1/10W						
R415	1-216-845-11	METAL CHIP	100K	5%	1/10W	CN102	1-778-303-21	CONNECTOR, FPC (ZIF) 16P			
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W	CNJ101	1-778-777-21	CONNECTOR, FPC 26P			
R501	1-216-813-11	METAL CHIP	220	5%	1/10W						< IC >
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W	IC101	8-752-089-74	IC CXA2581N-T4			
R602	1-216-845-11	METAL CHIP	100K	5%	1/10W	IC201	8-759-832-99	IC LA6576L-TE-L			
R603	1-216-809-11	METAL CHIP	100	5%	1/10W						< TRANSISTOR >
R607	1-216-814-11	METAL CHIP	270	5%	1/10W	Q101	8-729-010-05	TRANSISTOR	MSB709-RT1		
R608	1-216-814-11	METAL CHIP	270	5%	1/10W	Q102	8-729-024-88	TRANSISTOR	MUN2212T1		
R610	1-216-857-11	METAL CHIP	1M	5%	1/10W						
R612	1-216-811-11	METAL CHIP	150	5%	1/10W						
R613	1-216-821-11	METAL CHIP	1K	5%	1/10W						< RESISTOR >
											< COMPOSITION CIRCUIT BLOCK >
RB601	1-233-810-21	RES, NETWORK	100K (3216)			R101	1-216-801-11	METAL CHIP	22	5%	1/10W
RB602	1-233-810-21	RES, NETWORK	100K (3216)			R102	1-216-837-11	METAL CHIP	22K	5%	1/10W
RB603	1-233-810-21	RES, NETWORK	100K (3216)			R103	1-216-837-11	METAL CHIP	22K	5%	1/10W
RB604	1-233-810-21	RES, NETWORK	100K (3216)			R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R105	1-216-801-11	METAL CHIP	22	5%	1/10W
											< VARIABLE RESISTOR >
						R106	1-216-864-11	METAL CHIP	0	5%	1/10W
RV201	1-223-834-11	RES, ADJ, CARBON		47K		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
											< SWITCH >
SW201	1-529-565-41	SWITCH, PUSH (1 KEY) (MAGAZINE DETECT)				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
X101	1-795-577-21	VIBRATOR, CERAMIC (16.934MHz)				R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
X201	1-767-133-21	VIBRATOR, CERAMIC (12.288MHz)				R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
*	A-3326-947-A	RF BOARD, COMPLETE				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
											< CAPACITOR >
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
C102	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	R204	1-216-839-11	METAL CHIP	33K	5%	1/10W
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R206	1-216-839-11	METAL CHIP	33K	5%	1/10W
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	R207	1-216-833-11	METAL CHIP	10K	5%	1/10W
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R209	1-216-833-11	METAL CHIP	10K	5%	1/10W
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R210	1-216-839-11	METAL CHIP	33K	5%	1/10W
C109	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R212	1-216-839-11	METAL CHIP	33K	5%	1/10W
C121	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	R213	1-216-833-11	METAL CHIP	10K	5%	1/10W
C122	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R214	1-216-839-11	METAL CHIP	33K	5%	1/10W
C201	1-117-681-11	ELECT CHIP	100uF	20%	16V	R215	1-216-841-11	METAL CHIP	47K	5%	1/10W
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V	R216	1-216-842-11	METAL CHIP	56K	5%	1/10W
C203	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R218	1-216-841-11	METAL CHIP	47K	5%	1/10W
C204	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R219	1-216-843-11	METAL CHIP	68K	5%	1/10W
C205	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R220	1-216-834-11	METAL CHIP	12K	5%	1/10W
C206	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R222	1-216-821-11	METAL CHIP	1K	5%	1/10W
C207	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	R223	1-216-819-11	METAL CHIP	680	5%	1/10W
C208	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						

RF

SWITCH

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)	

1-684-651-11 SWITCH BOARD

SW801 1-692-431-21 SWITCH, TACTILE (▲)

MISCELLANEOUS

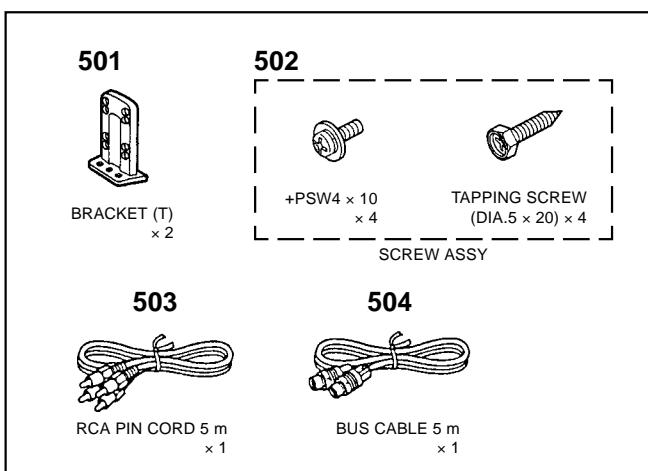
251	1-676-341-11	OP FLEXIBLE BOARD	
△255	8-820-103-11	OPTICAL PICK-UP KSS-720A/C-RP	
M101	A-3315-151-A	SLED MOTOR ASSY (251)	
M102	A-3301-998-A	SPINDLE MOTOR (S) SUB ASSY	
M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	
RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	

ACCESSORIES

3-241-142-11 MANUAL, INSRTUCTION (ENGLISH, FRENCH,
TRADITIONAL CHINESE)
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	1-590-874-11	CORD, CONNECTION (RCA PIN CORD)	
504	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE)	



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.

CDX-757MX

SONY®

*US Model
Canadian Model
E Model*

SERVICE MANUAL

Ver 1.1 2002.08

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of MAIN/SWITCH/JACK boards. (Suffix-12)

(ECN-CSA06141)

In this set, MAIN, SWITCH and JACK boards have been changed in the midway of production. Printed wiring boards and schematic diagrams of new type, and changed parts list are described in this supplement-1.

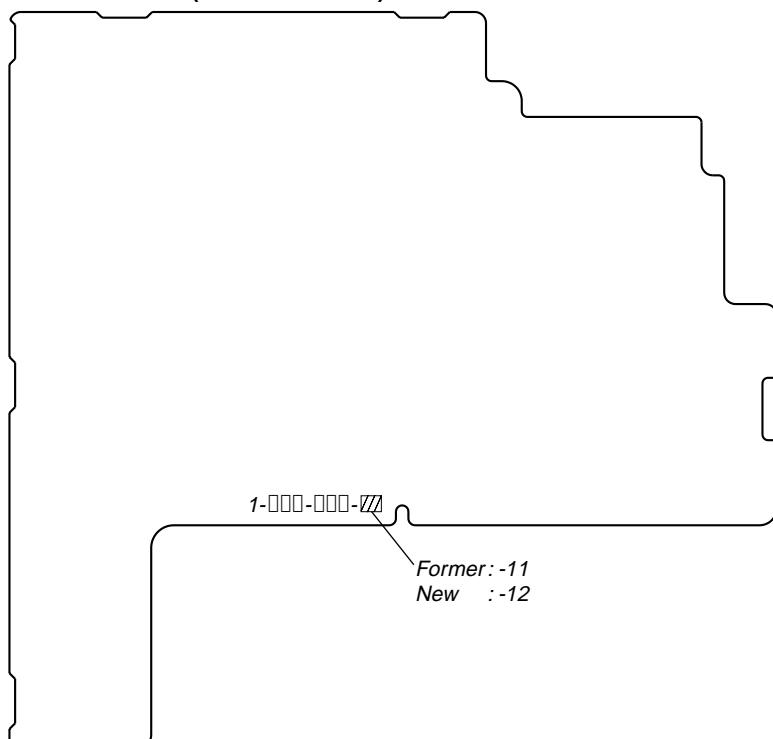
Refer to original service manual for other information.

• NEW/FORMER DISCRIMINATION

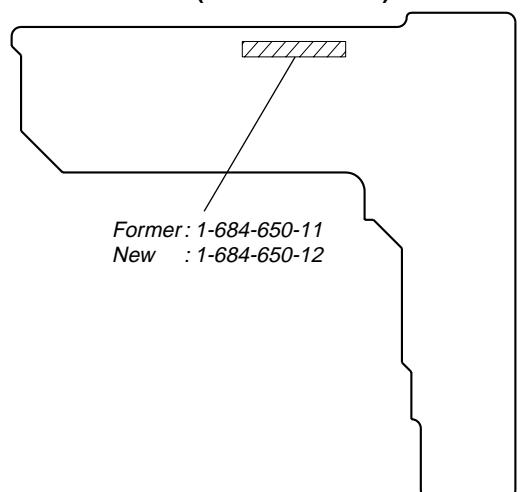
Former and new board can be distinguished with their suffix number the Part No. as shown in the figure below though, there are printing error in the Part No. printed on silk-screen of MAIN boards and SWITCH boards.

MAIN Board	Incorrect: 1-168-649-11, 12	Correct: 1-684-649-11, 12
SWITCH Board	Incorrect: 1-164-651-11, 12	Correct: 1-684-651-11, 12

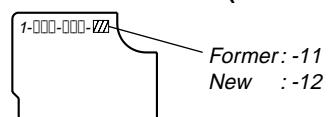
– MAIN BOARD (Conductor Side) –



– JACK BOARD (Conductor Side) –



– SWITCH BOARD (Conductor Side) –



• DIAGRAMS

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.)

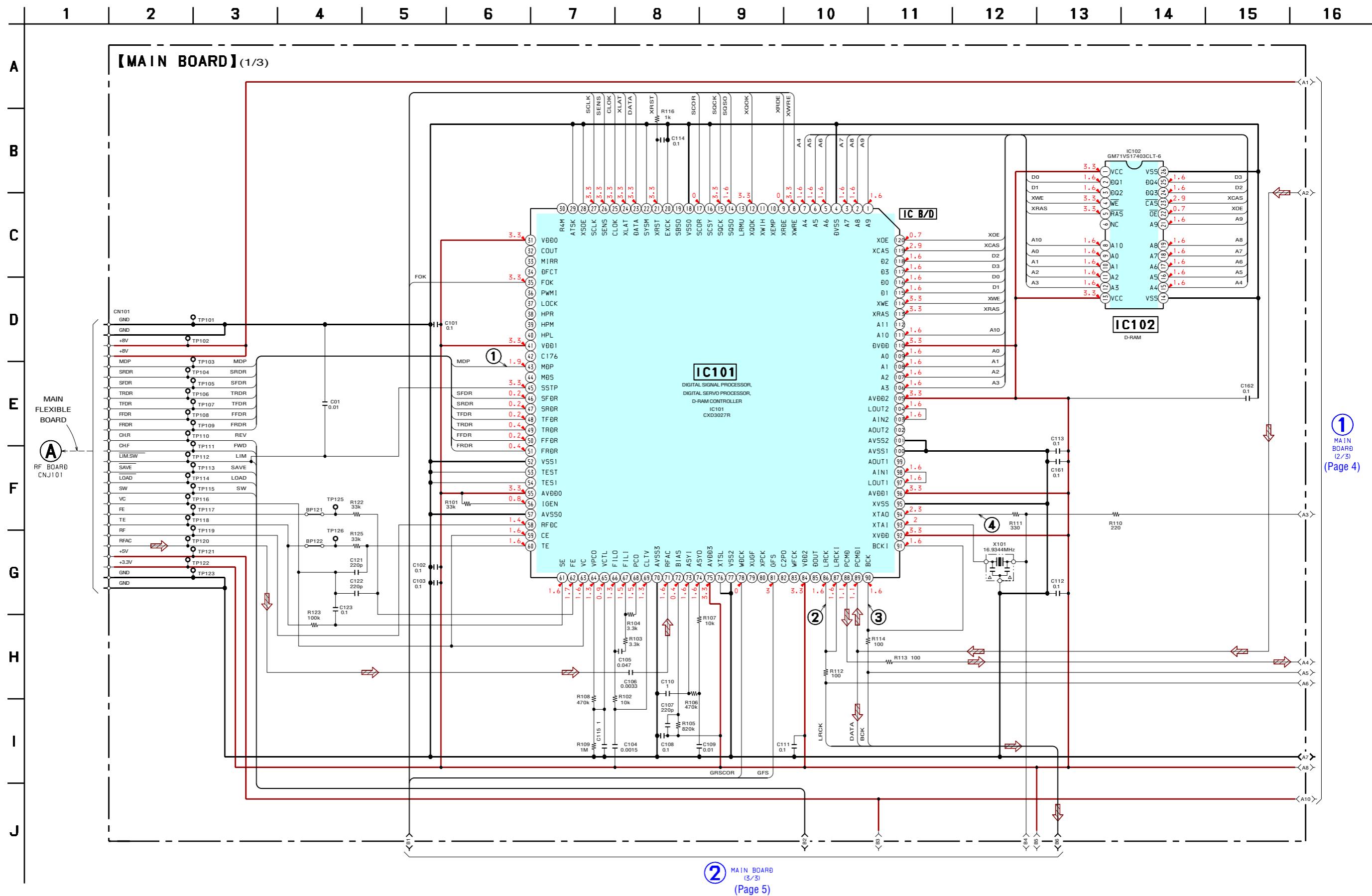
Caution:

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

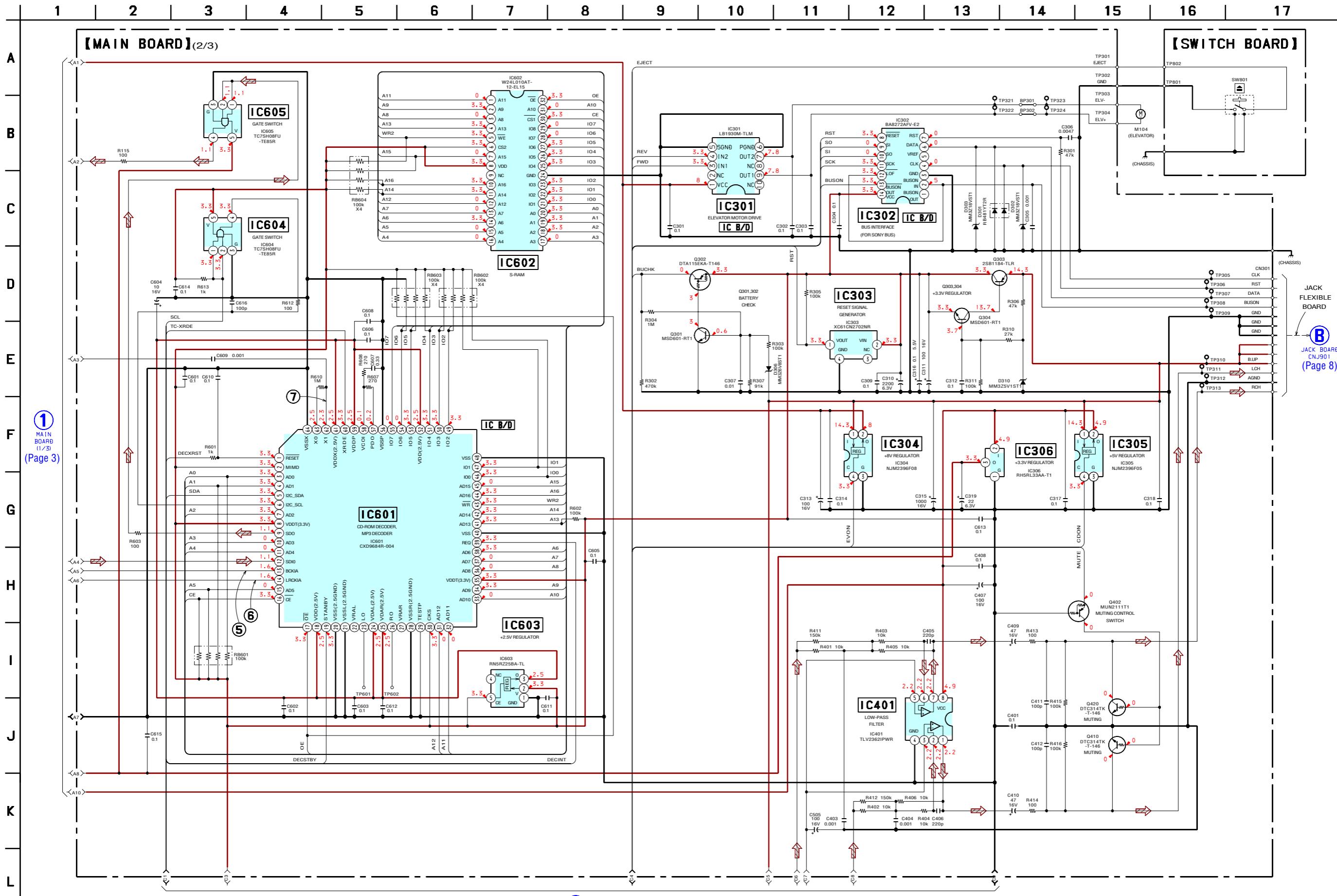
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : internal component.
- : panel designation.
- : B+ Line.
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground in CD play conditions.
no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : CD PLAY

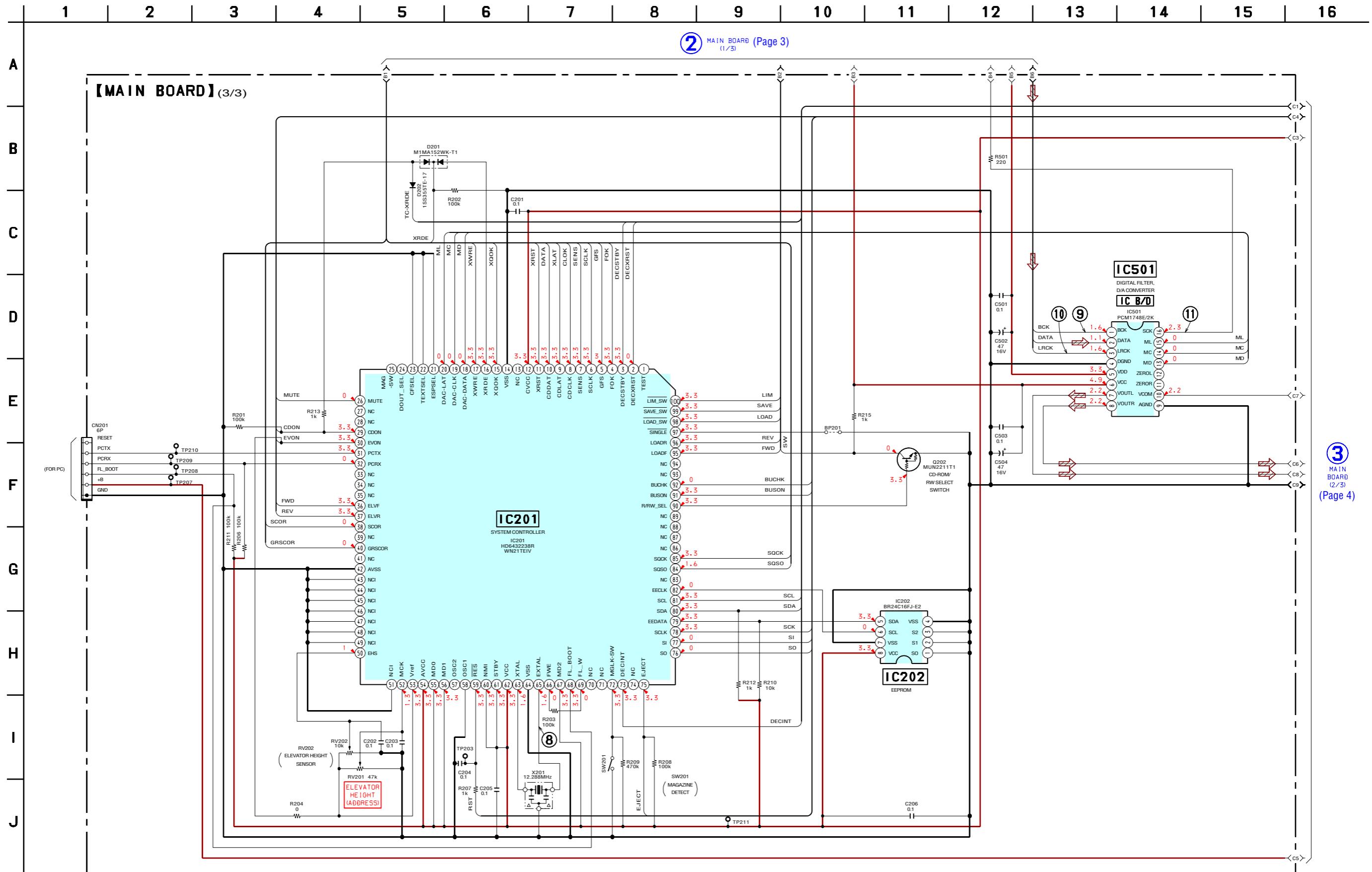
SCHEMATIC DIAGRAM – MAIN Board (1/3) –



SCHEMATIC DIAGRAM – MAIN (2/3)/SWITCH Boards –



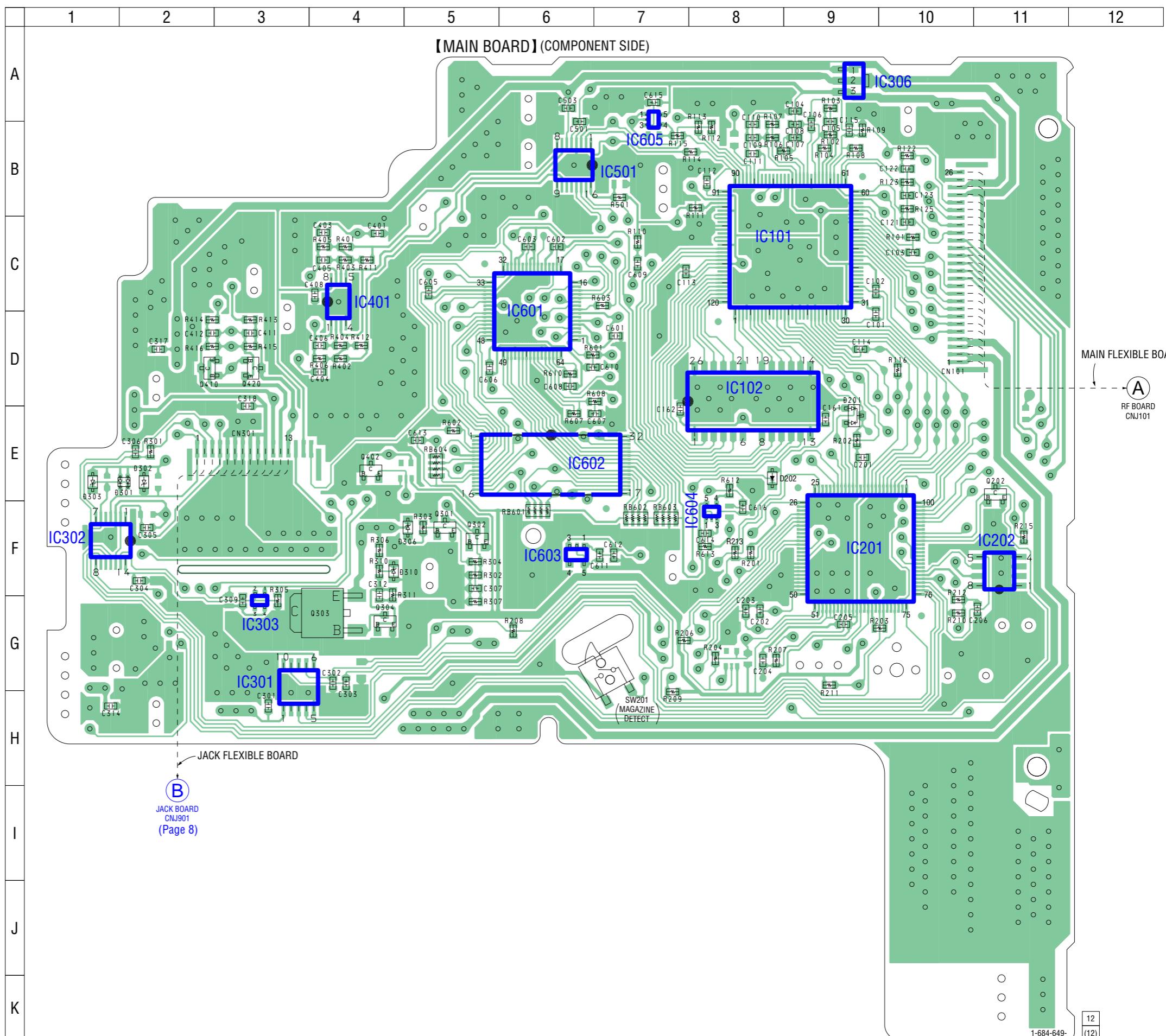
SCHEMATIC DIAGRAM – MAIN Board (3/3) –



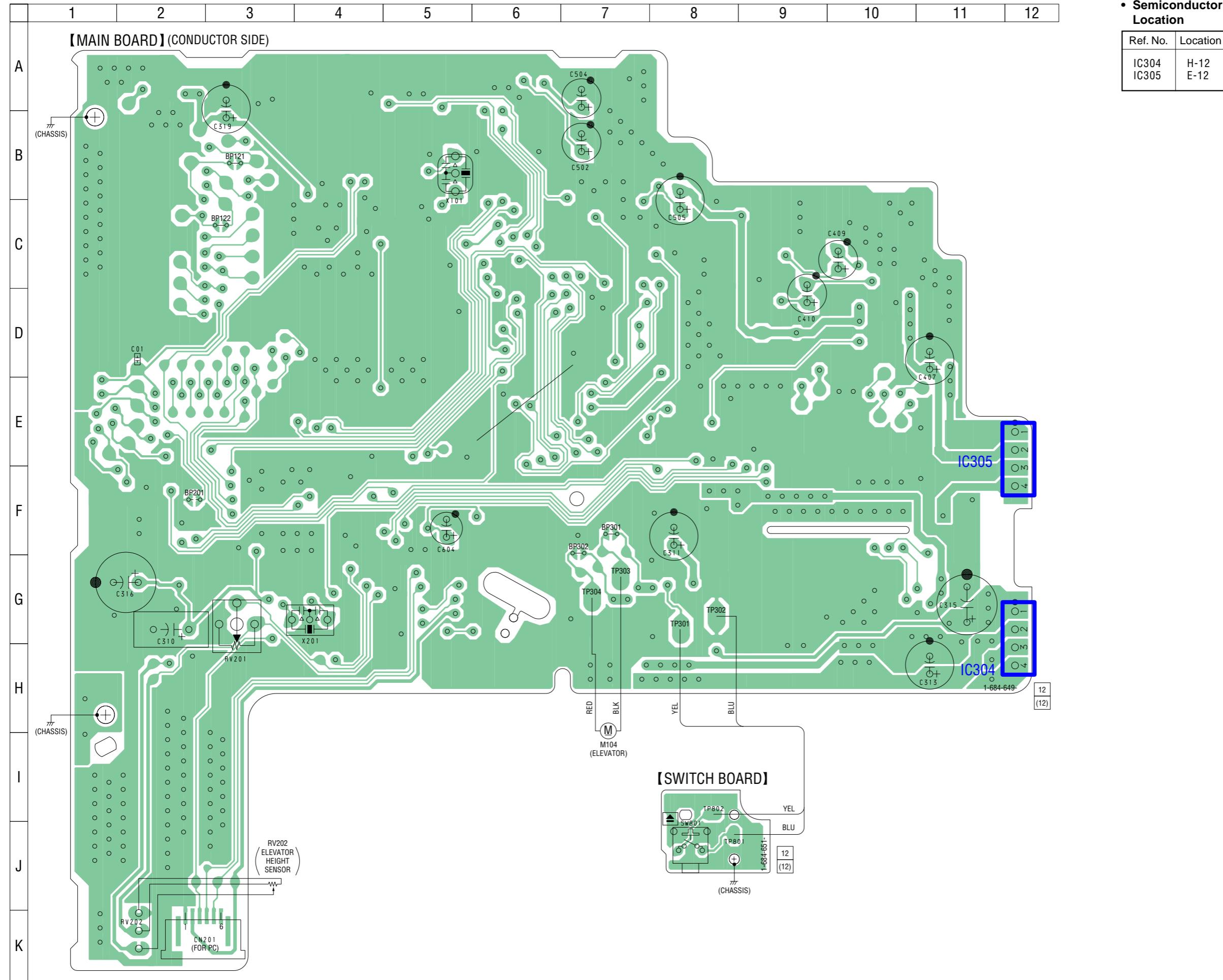
PRINTED WIRING BOARDS – MAIN Board (Component Side) –

• Semiconductor Location

Ref. No.	Location
D201	E-9
D202	E-8
D301	E-2
D302	E-2
D303	E-1
D306	F-5
D310	F-4
IC101	C-9
IC102	D-8
IC201	F-9
IC202	F-11
IC301	G-3
IC302	F-1
IC303	G-3
IC306	A-9
IC401	C-4
IC501	B-6
IC601	C-6
IC602	E-6
IC603	F-6
IC604	F-8
IC605	B-7
Q202	E-11
Q301	F-5
Q302	F-5
Q303	G-4
Q304	G-4
Q402	E-4
Q410	D-2
Q420	D-3

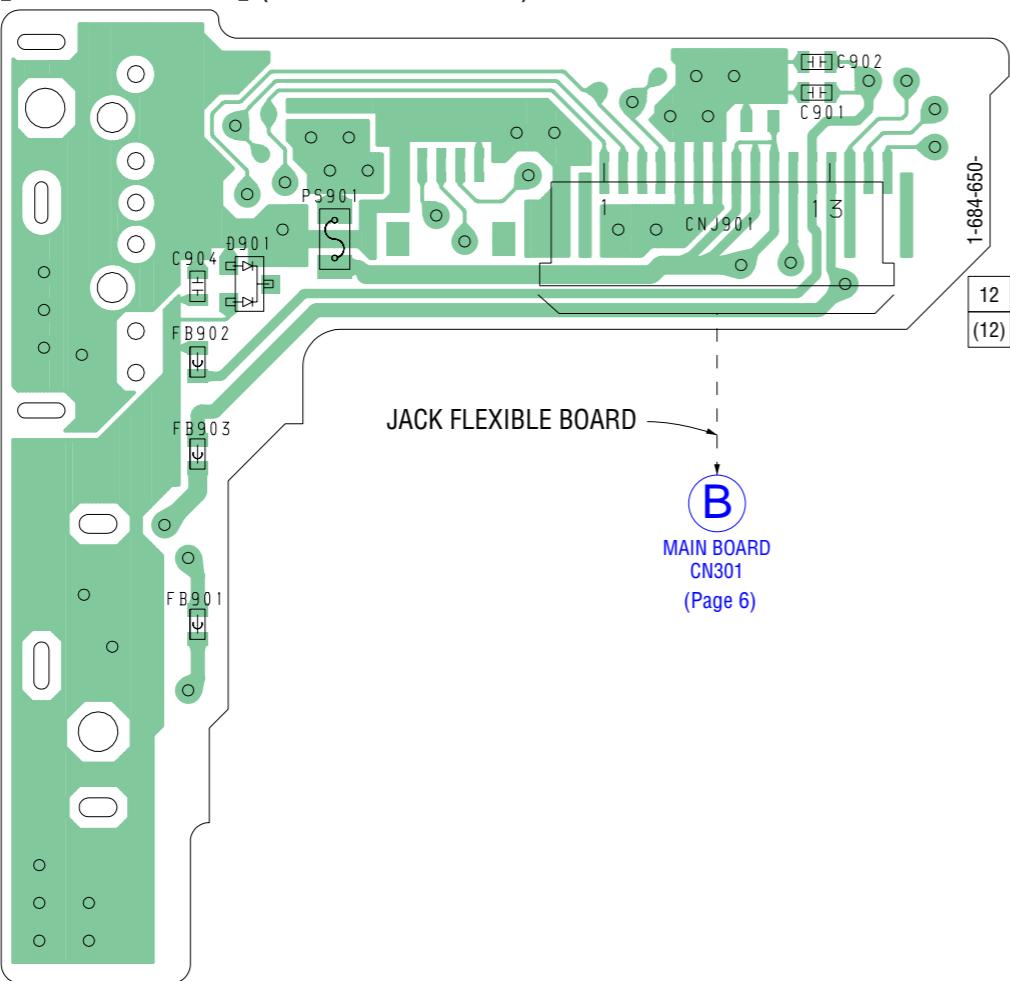


PRINTED WIRING BOARDS – MAIN (Conductor Side)/SWITCH Boards –

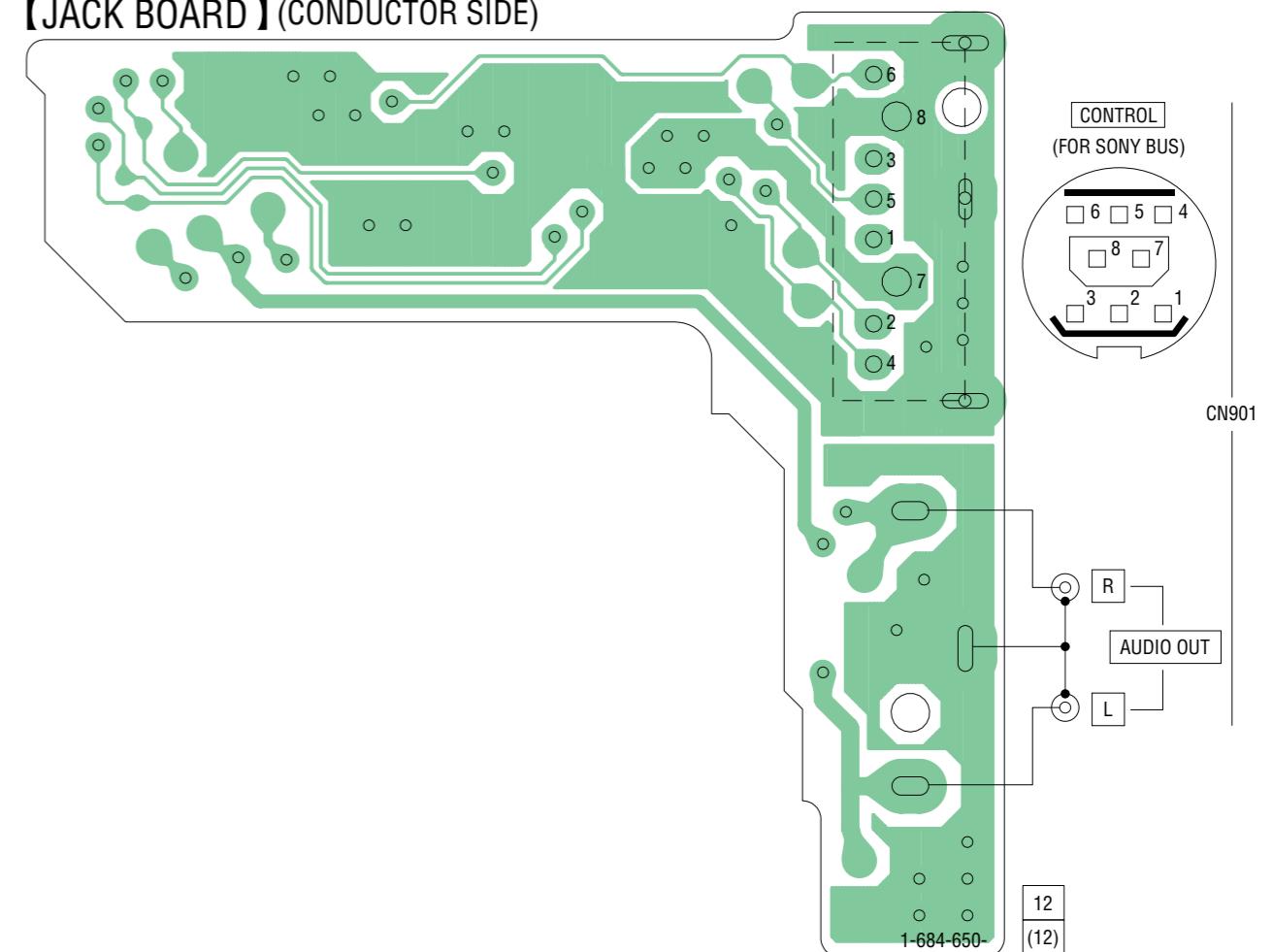


PRINTED WIRING BOARDS – JACK Board –

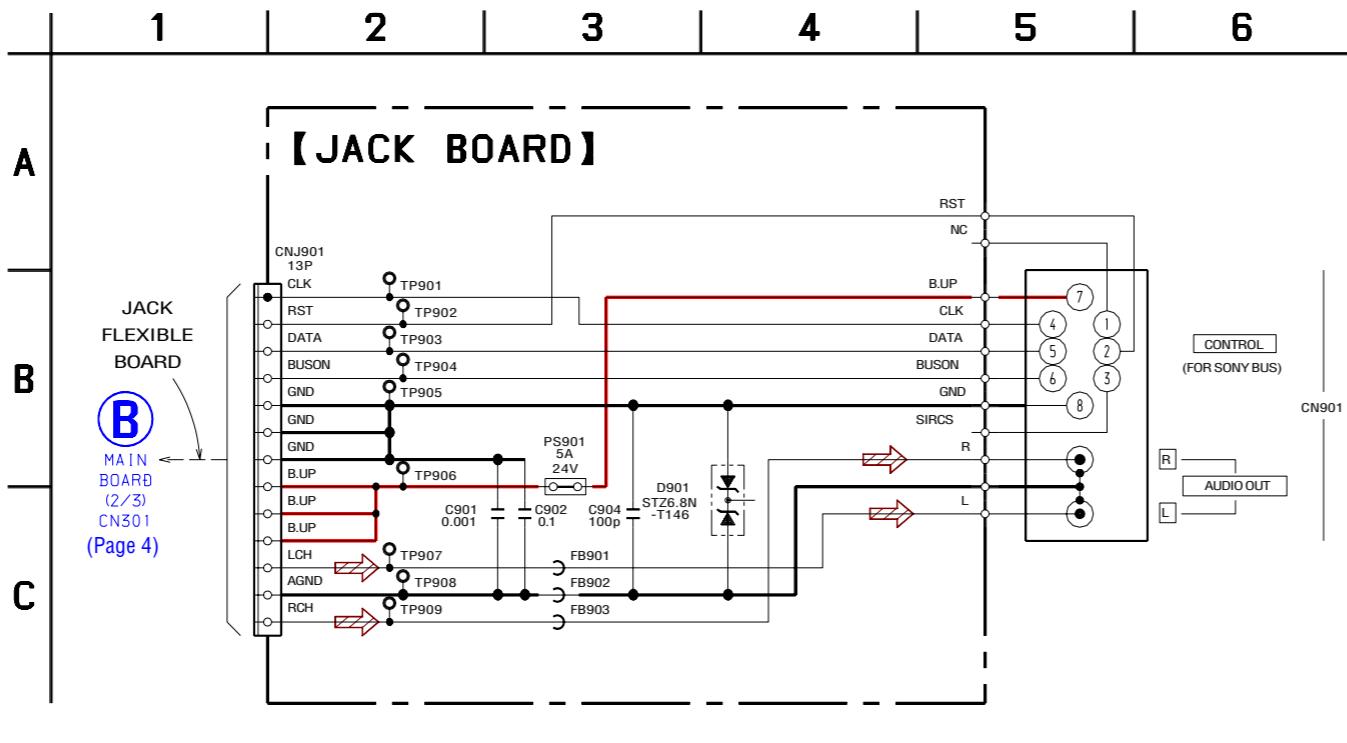
【JACK BOARD】(COMPONENT SIDE)



【JACK BOARD】(CONDUCTOR SIDE)



SCHEMATIC DIAGRAM – JACK Board –



• EXPLODED VIEWS

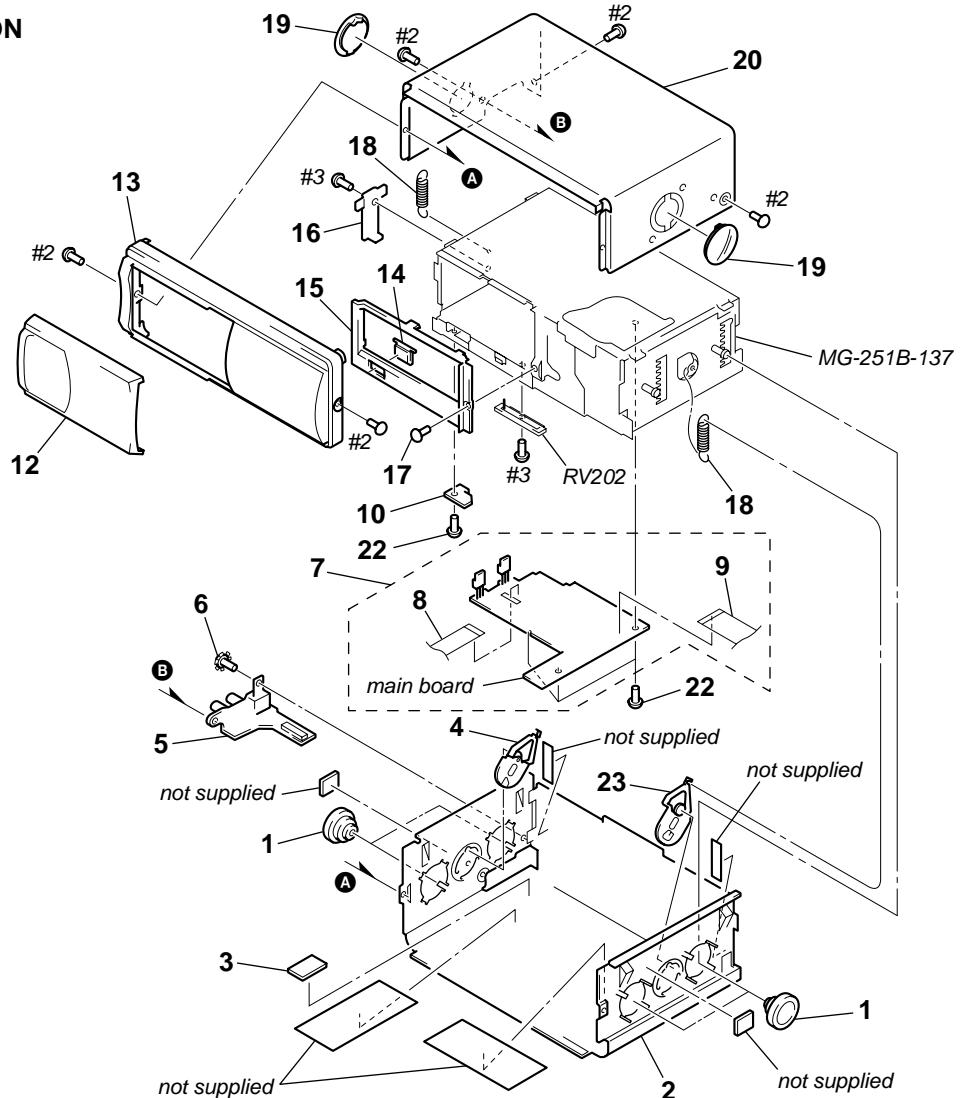
NOTE:

- 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.
- Accessories are given in the last of the electrical parts list.

CASE SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-047-852-01	DAMPER (T)		15	3-041-218-21	ESCUTCHEON (T)	
2	3-237-553-11	CASE (LOWER. T)		* 16	3-022-012-01	HEAT SINK (T)	
* 3	3-024-065-01	CUSHION (EJECT-T)		17	3-042-244-11	SCREW (T)	
4	X-3375-357-1	ARM (FLT) ASSY		18	3-038-166-01	SPRING (FL), TENSION COIL	
5	1-684-650-12	JACK BOARD		19	3-047-886-11	LEVER (FLT. 838)	
6	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		20	3-237-609-11	CASE (UPPER. T)	
7	A-3274-196-A	MAIN BOARD, COMPLETE		22	3-935-636-11	SCREW (FP)	
8	1-676-340-12	JACK FLEXIBLE BOARD		23	X-3375-360-2	ARM (FRT) ASSY	
9	1-676-339-12	MAIN FLEXIBLE BOARD		RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	
10	1-684-651-12	SWITCH BOARD		#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
12	X-3381-744-1	DOOR (M) ASSY		#3	7-685-781-09	SCREW +PTT 2X4 (S)	
13	3-229-226-21	PANEL, FRONT					
14	3-022-007-02	BUTTON (EJT) (▲)					

JACK MAIN**• ELECTRICAL PARTS LIST**

NOTE:

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

Items marked “*” are not stocked since they are seldom required for routine service.
Some delay should be anticipated when ordering these items.

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

• SEMICONDUCTORS

In each case, u: μ , for example:
uA... : μ A... uPA... : μ PA...
uPB... : μ PB... uPC... : μ PC...
uPD... : μ PD...

• CAPACITORS

uF: μ F

• COILS

uH: μ H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-684-650-12	JACK BOARD *****		C113	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< CAPACITOR >		C114	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C901	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C115	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
C902	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C121	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
C904	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	C122	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
		< CONNECTOR >		C123	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
CN901	1-779-077-51	PLUG, CONNECTOR (CONTROL, AUDIO OUT)		C161	1-164-156-11	CERAMIC CHIP	0.1uF 25V
CNJ901	1-778-775-21	CONNECTOR, FPC 13P		C162	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< DIODE >		C201	1-164-156-11	CERAMIC CHIP	0.1uF 25V
D901	8-719-067-40	DIODE STZ6.8N-T146		C202	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< FERRITE BEAD >		C203	1-164-156-11	CERAMIC CHIP	0.1uF 25V
FB901	1-469-179-21	FERRITE		C204	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
FB902	1-469-179-21	FERRITE		C205	1-164-156-11	CERAMIC CHIP	0.1uF 25V
FB903	1-469-179-21	FERRITE		C206	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		< FUSE >		C301	1-164-156-11	CERAMIC CHIP	0.1uF 25V
PS901	1-576-592-21	FUSE (SMD) (5A/24V)		C302	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		*****		C303	1-164-156-11	CERAMIC CHIP	0.1uF 25V
		A-3274-196-A MAIN BOARD, COMPLETE *****		C304	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C305	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
				C306	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
				C307	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
				C309	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C310	1-104-656-11	ELECT	2200uF 20% 6.3V
				C311	1-126-382-11	ELECT	100uF 20% 16V
				C312	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				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	1-125-710-11	DOUBLE LAYER	0.1F 5.5V 25V
				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
C01	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C401	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C101	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C403	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C102	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C404	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C103	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C405	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
C104	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V	C406	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
C105	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V	C407	1-115-651-11	ELECT	100uF 20% 16V
C106	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V	C408	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C107	1-162-960-11	CERAMIC CHIP	220PF 10% 50V	C409	1-115-650-11	ELECT	47uF 20% 16V
C108	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C410	1-115-650-11	ELECT	47uF 20% 16V
C109	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C411	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C110	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V	C412	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C111	1-164-156-11	CERAMIC CHIP	0.1uF 25V				
C112	1-164-156-11	CERAMIC CHIP	0.1uF 25V				

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C501	1-164-156-11	CERAMIC CHIP	0.1uF	25V					
C502	1-115-650-11	ELECT	47uF	20%	16V	Q402	8-729-424-08	TRANSISTOR	MUN2111T1
C503	1-164-156-11	CERAMIC CHIP	0.1uF	25V		Q410	8-729-920-21	TRANSISTOR	DTC314TK-T-146
C504	1-115-650-11	ELECT	47uF	20%	16V	Q420	8-729-920-21	TRANSISTOR	DTC314TK-T-146
C505	1-115-651-11	ELECT	100uF	20%	16V			< RESISTOR >	
C601	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R101	1-216-839-11	METAL CHIP	33K 5% 1/10W
C602	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R102	1-216-833-11	METAL CHIP	10K 5% 1/10W
C603	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R103	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
C604	1-126-791-11	ELECT	10uF	20%	16V	R104	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
C605	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R105	1-218-917-11	METAL CHIP	820K 5% 1/10W
C606	1-164-156-11	CERAMIC CHIP	0.1uF	25V					
C607	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V	R106	1-216-853-11	METAL CHIP	470K 5% 1/10W
C608	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R107	1-216-833-11	METAL CHIP	10K 5% 1/10W
C609	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	R108	1-216-853-11	METAL CHIP	470K 5% 1/10W
C610	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R109	1-216-857-11	METAL CHIP	1M 5% 1/10W
C611	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R110	1-216-813-11	METAL CHIP	220 5% 1/10W
C612	1-164-156-11	CERAMIC CHIP	0.1uF	25V					
C613	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R111	1-216-815-11	METAL CHIP	330 5% 1/10W
C614	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R112	1-216-809-11	METAL CHIP	100 5% 1/10W
C615	1-164-156-11	CERAMIC CHIP	0.1uF	25V		R113	1-216-809-11	METAL CHIP	100 5% 1/10W
C616	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R114	1-216-809-11	METAL CHIP	100 5% 1/10W
						R115	1-216-809-11	METAL CHIP	100 5% 1/10W
						R116	1-216-821-11	METAL CHIP	1K 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
D201	8-719-050-38	DIODE	M1MA152WK-T1			R125	1-216-839-11	METAL CHIP	33K 5% 1/10W
D202	8-719-988-61	DIODE	1SS355TE-17			R201	1-216-845-11	METAL CHIP	100K 5% 1/10W
D301	6-500-054-01	DIODE	RB481YT2R						
D302	8-719-056-93	DIODE	MM3Z18VST1			R202	1-216-845-11	METAL CHIP	100K 5% 1/10W
D303	8-719-056-93	DIODE	MM3Z18VST1			R203	1-216-845-11	METAL CHIP	100K 5% 1/10W
D306	8-719-056-83	DIODE	MM3Z6V8ST1			R204	1-216-864-11	METAL CHIP	0 5% 1/10W
D310	8-719-976-99	DIODE	MM3Z5V1ST1			R206	1-216-845-11	METAL CHIP	100K 5% 1/10W
						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
						R210	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC101	8-752-398-18	IC	CXD3027R			R211	1-216-845-11	METAL CHIP	100K 5% 1/10W
IC102	8-759-538-44	IC	MSM51V17400D-10TK-FS			R212	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC201	6-801-496-01	IC	HD6432238RWN21TEIV						
IC202	8-759-660-38	IC	BR24C16FJ-E2			R213	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC301	8-759-527-33	IC	LB1930M-TLM			R215	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC302	8-759-829-46	IC	BA8272AFV-E2			R301	1-216-841-11	METAL CHIP	47K 5% 1/10W
IC303	6-702-148-01	IC	XC61CN2702NR			R302	1-216-853-11	METAL CHIP	470K 5% 1/10W
IC304	6-702-147-01	IC	NJM2396F08			R303	1-216-845-11	METAL CHIP	100K 5% 1/10W
IC305	6-702-146-01	IC	NJM2396F05						
IC306	8-759-444-93	IC	RH5RL33AA-T1			R304	1-216-857-11	METAL CHIP	1M 5% 1/10W
IC401	8-759-662-11	IC	TLV2362IPWR			R305	1-216-845-11	METAL CHIP	100K 5% 1/10W
IC501	8-759-825-13	IC	PCM1748E/2K			R306	1-216-841-11	METAL CHIP	47K 5% 1/10W
IC601	6-700-297-01	IC	CXD9684R-004			R307	1-218-739-11	METAL CHIP	91K 5% 1/10W
IC602	6-700-296-01	IC	W24L010AT-12-EL15			R310	1-216-838-11	METAL CHIP	27K 5% 1/10W
IC603	8-759-645-31	IC	RN5RZ25BA-TL						
IC604	8-759-196-96	IC	TC7SH08FU-TE85R			R311	1-216-845-11	METAL CHIP	100K 5% 1/10W
IC605	8-759-196-96	IC	TC7SH08FU-TE85R			R401	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
						R402	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
						R403	1-216-833-11	METAL CHIP	10K 5% 1/10W
						R404	1-216-833-11	METAL CHIP	10K 5% 1/10W
						R405	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
Q202	8-729-421-22	TRANSISTOR	MUN2211T1			R406	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
Q301	8-729-010-25	TRANSISTOR	MSD601-RT1			R411	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q302	8-729-028-62	TRANSISTOR	DTA115EKA-T146			R412	1-216-847-11	METAL CHIP	150K 5% 1/10W
Q303	8-729-922-47	TRANSISTOR	2SB1184-TLR			R413	1-216-809-11	METAL CHIP	100 5% 1/10W
Q304	8-729-010-25	TRANSISTOR	MSD601-RT1						
						R414	1-216-809-11	METAL CHIP	100 5% 1/10W
						R415	1-216-845-11	METAL CHIP	100K 5% 1/10W

CDX-757MX

MAIN	SWITCH
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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>		
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W
R501	1-216-813-11	METAL CHIP	220	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
R603	1-216-809-11	METAL CHIP	100	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

< 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 (1KEY) (MAGAZINE DETECT)

< VIBRATOR >

X101 1-795-577-21 VIBRATOR, CERAMIC (16.9344MHz)
 X201 1-767-133-21 VIBRATOR, CERAMIC (12.288MHz)

1-684-651-12 SWITCH BOARD

SW801 1-692-431-21 SWITCH, TACTILE (▲)