

CDX-GT660UE/GT660UP/GT660UV/GT662UE/ GT710UV/GT717UV

SERVICE MANUAL

Ver. 1.0 2011.07

US Model
Canadian Model
CDX-GT660UP
AEP Model
UK Model
CDX-GT660UV
E Model
CDX-GT710UV
Russian Model
CDX-GT660UE/GT662UE
Indian Model
CDX-GT717UV



Photo: CDX-GT660UP

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	New
Mechanism Type	MG-101CA-188
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CONSOMMATEURS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE QUÉBEC.

AUDIO POWER SPECIFICATIONS (GT660UP)

CEA2006 Standard
Power Output: 17 Watts RMS x 4 at 4 Ohms < 1% THD+N
SN Ratio: 80 dBA
(reference: 1 Watt into 4 Ohms)

Tuner section (GT660UE/GT660UP/GT660UV/GT662UE/GT710UV: E, Mexican/GT717UV)

FM
Tuning range:
GT660UP:
87.5 - 107.9 MHz
GT660UE/GT662UE:
FM1/FM2 : 87.5 - 108.0 MHz (at 50 kHz step)
FM3 : 65 - 74 MHz (at 30 kHz step)
GT660UV:
87.5 - 108.0 MHz
GT710UV: E, Mexican/GT717UV:
87.5 - 108.0 MHz (at 50 kHz step)
87.5 - 108.0 MHz (at 100 kHz step)
87.5 - 107.9 MHz (at 200 kHz step)
FM tuning step:
50 kHz/100 kHz/200 kHz switchable

Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
Separation: 50 dB at 1 kHz
Frequency response: 20 - 15,000 Hz

AM
Tuning range:
GT660UP:
530 - 1,710 kHz
GT660UE/GT660UV/GT662UE:
MW : 531 - 1,602 kHz
LW : 153 - 279 kHz
GT710UV: E, Mexican/GT717UV:
531 - 1,602 kHz (at 9 kHz step)
530 - 1,710 kHz (at 10 kHz step)

Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
GT660UP:
9,115 kHz or 9,125 kHz/5 kHz
GT660UE/GT660UV/GT662UE:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz
GT710UV: E, Mexican/GT717UV:
9,124.5 kHz or 9,115.5 kHz/4.5 kHz (at 9 kHz step)
9,115 kHz or 9,125 kHz/5 kHz (at 10 kHz step)
Sensitivity:
GT660UP/GT710UV: E, Mexican/GT717UV:
26 µV
GT660UE/GT660UV/GT662UE:
MW: 26 µV, LW: 45 µV

Tuner section (GT710UV: Saudi Arabia model)

FM
Tuning range: 87.5 - 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Usable sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 80 dB (stereo)
Separation: 50 dB at 1 kHz
Frequency response: 20 - 15,000 Hz

MW
Tuning range: 531 - 1,602 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: 26 µV

SW
Tuning range:
SW1: 2,940 - 7,735 kHz
SW2: 9,500 - 18,135 kHz
(except for 10,140 - 11,575 kHz)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 9,124.5 kHz or 9,115.5 kHz/4.5 kHz
Sensitivity: 26 µV

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

USB Player section
Interface: USB (Full-speed)
Maximum current: 1 A

Power amplifier section
Output: Speaker outputs
Speaker impedance: 4 - 8 ohms
Maximum power output: 52 W x 4 (at 4 ohms)

General

Outputs:
Audio outputs terminal (front/rear)
Subwoofer output terminal (mono)
Power antenna (aerial)/Power amplifier control terminal (REM OUT)

Inputs:
SiriusXM input terminal (GT660UP only)
Remote controller input terminal
Antenna (aerial) input terminal
Telephone ATT control terminal
AUX input jack (stereo mini jack)
USB signal input connector

Power requirements: 12 V DC car battery (negative ground (earth))
Dimensions: Approx. 178 x 50 x 180 mm (7 1/8 x 2 x 7 1/8 in) (w/h/d)

Mounting dimensions: Approx. 182 x 53 x 162 mm (7 1/8 x 2 1/8 x 6 1/2 in) (w/h/d)
Mass: Approx. 1.3 kg (2 lb 14 oz)
Supplied accessories:
Remote commander: RM-X211
Parts for installation and connections (1 set)
Optional accessories/equipment:
USB connection cable for iPod: RC-100IP
SiriusXM tuner: SXV100

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

System requirements for using SensMe™

Computer

- CPU/RAM
- IBM PC/AT compatible machine
- CPU: Intel Pentium III Processor 450 MHz or higher
- RAM: 256 MB or more (For Windows XP), 512 MB or more (For Windows Vista or later)

OS

- Windows XP, Windows Vista, Windows 7
- For details on compatible editions or Service Pack, visit the support site on the back cover.

Monitor

High color (16-bit) or more, 800 x 600 dots or more

Other

Internet connection

Notes

- The following system environments are not supported.
 - Non IBM PC type computers, such as Macintosh, etc.
 - Homemade computers
 - OS upgraded computers
 - Multi-display environment
 - Multi-boot environment
 - Virtual machine environment
- Depending on the computer condition, operation may not be possible even with the recommended environment.

GT660UP/GT710UV: E, Mexican models/GT717UV
FM/AM COMPACT DISC PLAYER
GT660UE/GT660UV/GT662UE
FM/MW/LW COMPACT DISC PLAYER
GT710UV: Saudi Arabia model
FM/MW/SW COMPACT DISC PLAYER

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Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate



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- US and Canadian models:

CAUTION

The use of optical instruments with this product will increase eye hazard.

- Except US and Canadian models:



This label is located on the bottom of the chassis.

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.

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

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.

FLEXIBLE CIRCUIT BOARD REPAIRING

- Keep the temperature of 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.

**SECTION 1
SERVICING NOTES**

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

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

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

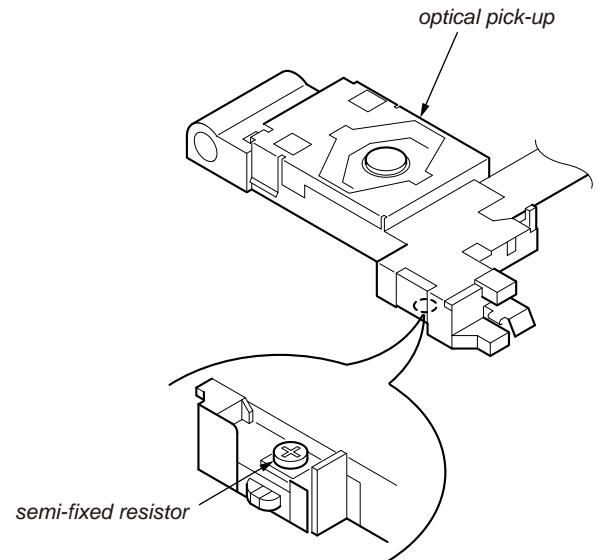
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right above when checking it for adjustment. It is feared that you will lose your sight.

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.



UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING

When the MAIN board or system controller (IC501) is replaced, the destination setting is necessary.

1. Destination Setting

Set destination according to the procedure below.

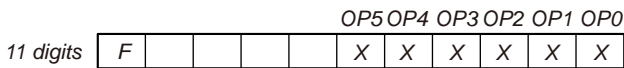
1-1. Setting the Destination Code

1. In the state of source off (the clock is displayed), enter the test mode by pressing the buttons in order of the [4] → [5] → [6] (press only the [6] button for two seconds).
2. In the state in which the system controller version is displayed on the liquid crystal display, enter the destination setting mode by pressing the buttons in order of the [SEEK +] → [SEEK -] → [PUSH ENTER/SELECT].
3. Input the alphanumeric character of 6 digits of "F XXXXXX" displayed on the liquid crystal display, and execute the destination setting.

Note: Refer to following "1-3. Entering the Destination Code" for operation method.

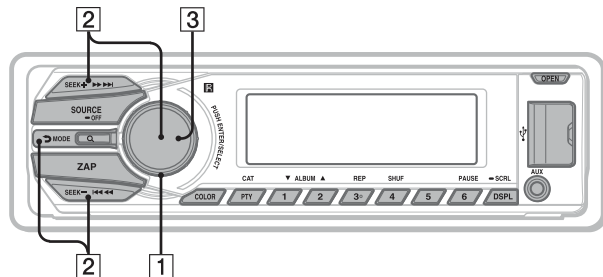
4. The resetting operation is executed by pressing the [SOURCE/OFF] button for 1 second after the setting ends, and the unit returns to the normal condition.

1-2. Display in Destination Setting Mode



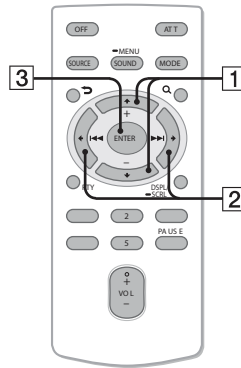
1-3. Entering the Destination Code

• **Method of operation by main unit**



1. Rotate the control dial, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [PUSH ENTER] or [SEEK +] button. The digit returns by pressing the [SEEK -] or [SEEK -] button.
3. The setting is completed by pressing the [PUSH ENTER] button, and the initialization operation is done.

• **Method of operation by remote commander**



1. Press the [↑] or [↓] button, and select the alphanumeric character of "0 to F".
2. The digit advances by pressing the [→] button. The digit returns by pressing the [←] button.
3. The setting is completed by pressing the [ENTER] button, and the initialization operation is done.

1-4. Destination Code

Model	Destination	OP5	OP4	OP3	OP2	OP1	OP0
CDX-GT660UE	Russian	0	1	6	0	5	7
CDX-GT660UP	US, Canadian	0	3	4	0	6	2
CDX-GT660UV	AEP, UK	0	1	4	0	2	1
CDX-GT662UE	Russian	0	1	6	0	7	7
CDX-GT710UV	E	0	1	4	8	0	0
	Saudi Arabia	0	1	4	8	0	4
CDX-GT717UV	Mexican	0	1	4	8	0	0
	Indian	0	1	4	8	1	0

2. Confirmation After Destination Setting

Execute the following operation after completing the destination setting, and confirm a correct destination was set.

Destination setting checking method:

1. In the state of source off (the clock is displayed on the liquid crystal display), enter the test mode by pressing the buttons in order of the [4] → [5] → [6] (press only the [6] button for two seconds).
2. In the state in which the system controller version is displayed on the liquid crystal display, enter the destination setting value display mode by pressing the [DISP] button.
3. Confirm the alphanumeric character of 6 digits of "F XXXXXX" displayed in liquid crystal display is an value correctly input.
4. The resetting operation is executed by pressing the [SOURCE/OFF] button for 1 second after the confirming ends, and the unit returns to the normal condition.

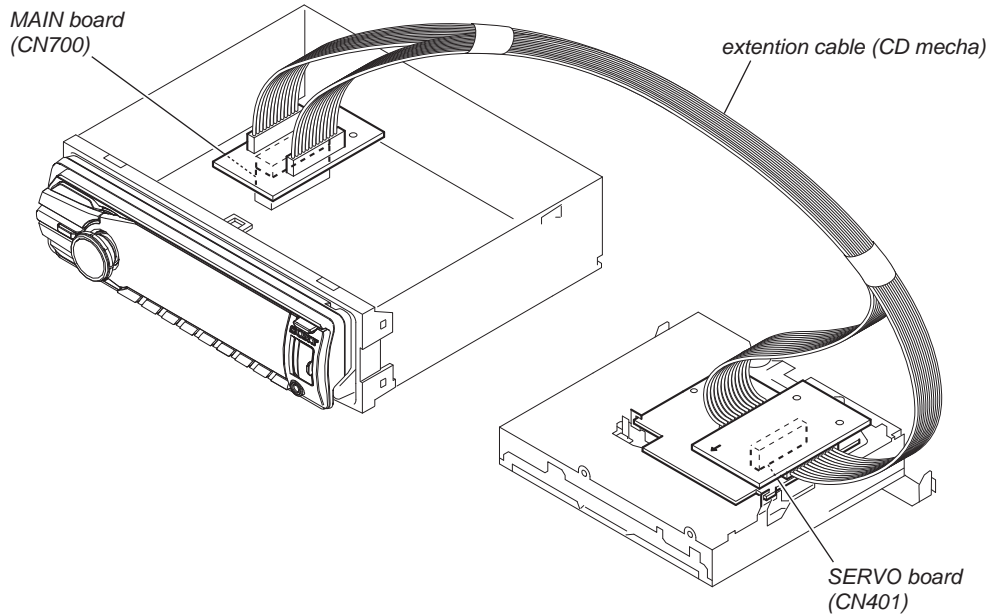
EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CN700) and the SERVO board (CN401) with the jig cable.

Jig cable:

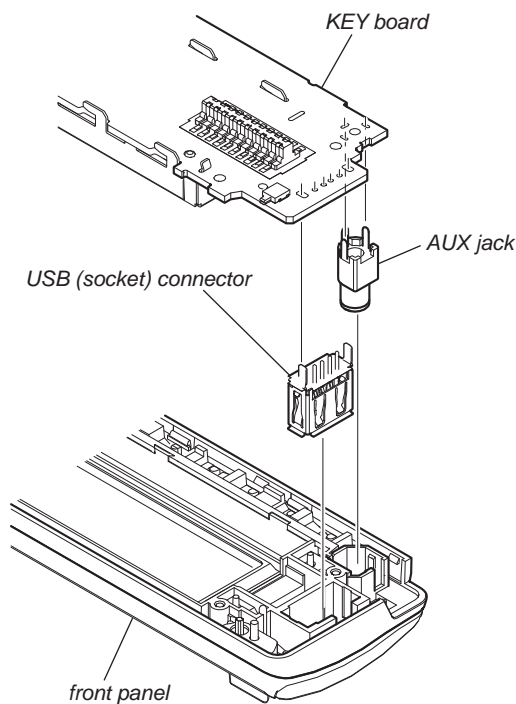
Part No.	Description
A-1818-424-A	EXTENSION CABLE (CD MECHA)



NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)

To replace the USB connector and the AUX jack requires alignment.

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



TEST DISCS

Use following TEST DISC when this set confirms the operation and checks it.

Part No.	Description
3-702-101-01	YEDS-18 (for CD)
4-225-203-01	PATD-012 (for CD)

NOTE FOR THE 20-PIN CONNECTOR (CN901)

Do not use alcohol to clean the 20-pin connector (CN901) connecting the front panel with the main body.

Do not touch the connector directly with your bare hand. Poor contact may be caused.

NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board should be replaced since any parts in the SERVO board cannot be repaired.

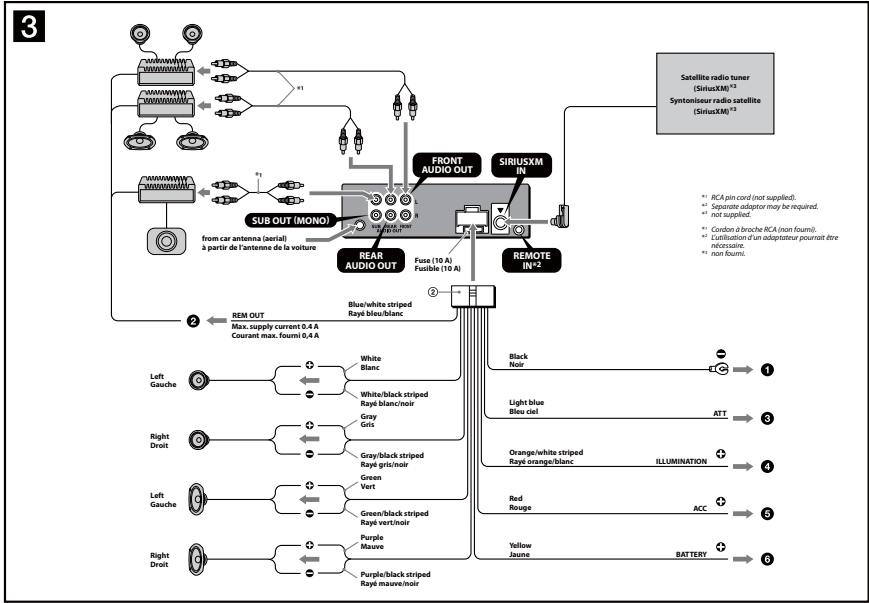
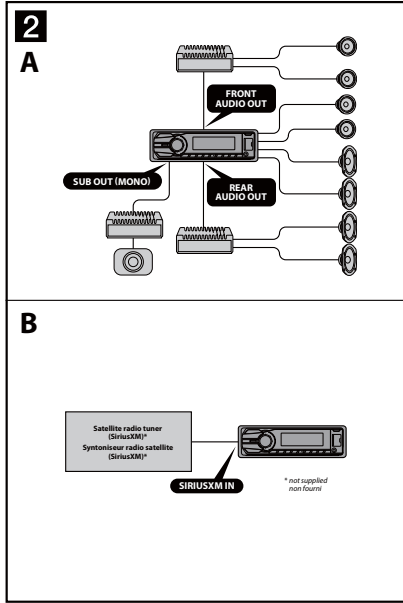
NOTE FOR REPLACEMENT OF THE SWITCH BOARD

When SWITCH board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08.

SECTION 2
GENERAL

This section is extracted from instruction manual.

(GT660UP/GT710UV/GT717UV)



Cautions

- This unit is designed for negative ground (earth) 12 V DC operation only.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railings).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the yellow and red power supply leads only after all other leads have been connected.
- Run all ground (earth) leads to a common ground (earth) point.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.
- Use the eye of optical instruments with this product will increase eye hazard.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When the car circuits are rated high enough, connect the unit directly to the battery.

Connection example 2

Notes 2 A)

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

Connection diagram 3

- To a metal surface of the car. Do not connect to a black ground (earth) lead, then connect the yellow and red power supply leads.
- To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster antenna.
 - If it is not necessary to connect this lead if there is a power antenna (aerial) or antenna (aerial) booster, or with a mutually-operational stereo antenna (aerial).
 - When your car has a built-in PAMM antenna (aerial) in the rear side glass, use "Notes on the control and power supply leads".
- To AMP REMOTE IN of an optional power amplifier. This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone.
- To a car's illumination signal. This connection is only for the car's fuse.
- To the +12 V power terminal which is energized in the accessory position of the ignition switch.
 - If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.
 - When your car has a built-in PAMM antenna (aerial) in the rear side glass, use "Notes on the control and power supply leads".
- To the +12 V power terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads

- REM OUT lead (blue/white striped) supplies +12 V DC when you turn on the car.
- When your car has built-in PAMM antenna (aerial) in the rear side glass, connect REM OUT lead (blue/white striped) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.
- A power antenna (aerial) without a relay box cannot be used with this unit.

Memory lead connection

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

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 Ω or higher, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speaker with those of the left speaker.
- Do not connect the ground (earth) lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifier) to the speaker terminals may damage the unit.
- In the event of a malfunction, do not use the built-in speaker leads installed in your car if the unit shows a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Note on connection

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

Précautions

Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.

- Évitez de frotter des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer les raccordements, coupe le moteur pour éviter un court-circuit.
- Raccordez les câbles d'alimentation jaune et rouge seulement après avoir terminé tous les autres raccordements.

Rassemblez tous les câbles de mise à la masse en un point de masse commun.

Pour des raisons de sécurité, veillez à isoler avec du ruban isolant tout câble libre non raccordé.

Utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux.

Remarques sur le câble d'alimentation (jaune)

- La valeur nominale du circuit de la voiture raccordé doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Exemple de raccordement 2

Remarque 2 A)

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

Schéma de raccordement 3

- À un point métallique de la voiture. Ne connectez pas le câble de mise à la masse noir à un point métallique du véhicule.
- À la borne de commande d'antenne électrique ou au câble d'alimentation de l'amplificateur d'antenne.
 - Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ou commande d'antenne, ou avec une antenne à commande et d'alimentation.
 - Si votre voiture est équipée d'une antenne PAMM intégrée dans la vitre arrière latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne de AMP REMOTE IN de l'amplificateur de puissance en option. Le raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- Vers le cordon de liaison d'un téléphone de voiture. Raccordez l'about de ce câble de mise à la masse noir à un point métallique du véhicule.
- À la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoires.
 - Si il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence. Raccordez l'about de ce câble de mise à la masse noir à un point métallique du véhicule.
 - Si votre voiture est équipée d'une antenne PAMM intégrée dans la vitre arrière latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne d'alimentation +12 V qui est alimentée en permanence. Raccordez l'about de ce câble de mise à la masse noir à un point métallique du véhicule.

Remarques sur les câbles de commande et d'alimentation

- Le câble REM OUT (rayé bleu/blanc) fournit une alimentation de +12 V CC lorsque vous mettez l'appareil en marche. Ce câble est relié à la borne de commande d'antenne électrique ou à la borne d'alimentation de l'amplificateur d'antenne. Pour plus de détails, consultez votre concessionnaire.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour la conservation de la mémoire

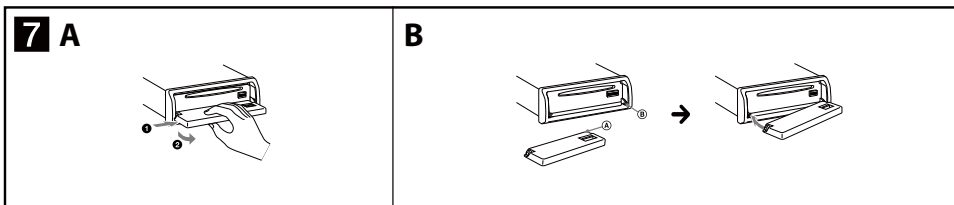
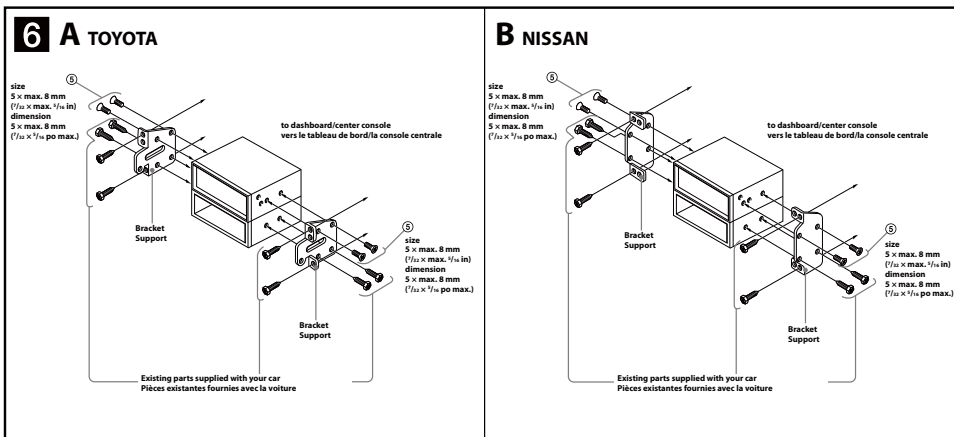
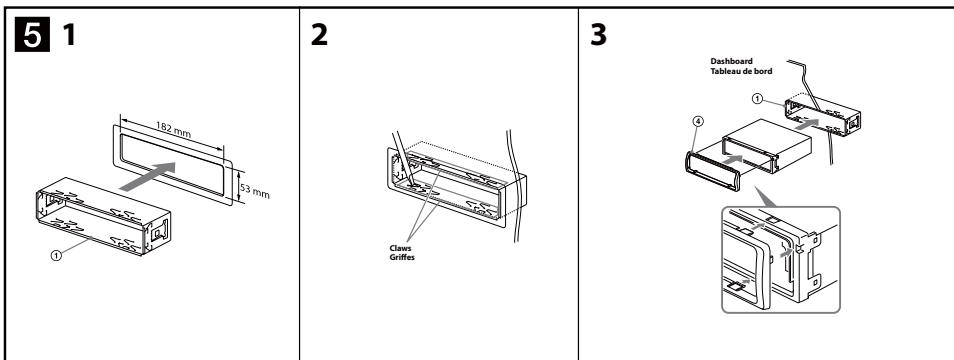
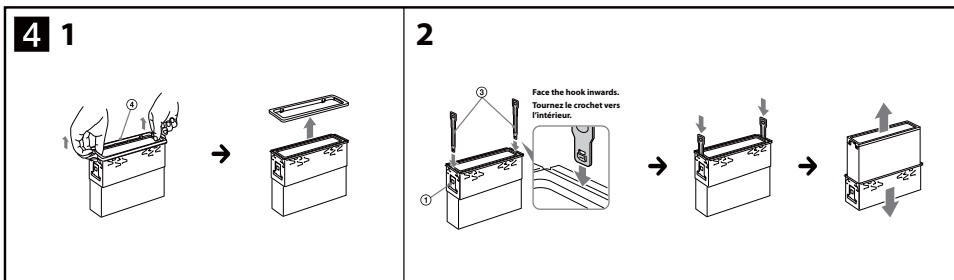
Lorsque le câble d'alimentation jaune est raccorde, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position arrêt.

Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil en veille.
- Utilisez des haut-parleurs ayant une impédance de 4 Ω et dotés d'une capacité adéquate pour éviter les dommages.
- Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture ou raccordez-les aux bornes de haut-parleur droit et gauche du haut-parleur gauche.
- Ne raccordez pas le câble de mise à la masse de cet appareil à la borne négative (-) de haut-parleur.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez séparément des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans une vitre arrière latérale.
- Insérez un câble isolant commun (-) pour les haut-parleur droit et gauche.

Remarques sur le raccordement

Si vous raccordez l'appareil à un système de haut-parleurs de l'appoint, le message « FALBACK » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.



Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment
Adjust the mounting angle to less than 45°.

Removing the protection collar and the bracket 4

Before installing the unit, remove the protection collar ④ and the bracket ⑤ from the unit.

- 1 Remove the protection collar ④. Pinch both edges of the protection collar ④, then pull it out.
- 2 Remove the bracket ⑤. Insert both release keys ⑥ together between the unit and the bracket ⑤ until they click. Pull down the bracket ⑤, then pull up the unit to separate.

Mounting example 5

Installation in the dashboard

Notes

- Bend these claws outward for a tight fit. If necessary ⑤ 2.
- Make sure that the 4 catches on the protection collar ④ are properly engaged in the slots of the unit ⑤ 3.

Mounting the unit in a Japanese car 6

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Note
To prevent malfunction, install only with the supplied screws ⑦.

How to detach and attach the front panel 7

Before installing the unit, detach the front panel.

7-A To detach
Before detaching the front panel, be sure to press and hold [SOURCE/OPEN]. Press [OPEN], then slide the front panel to the right, and gently pull out the left end of the front panel.

7-B To attach
Place the hole ⑧ of the front panel onto the spindle ⑨ on the unit, then lightly push the left side in.

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function. For details, see the supplied Operating Instructions. The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain. If you do not set the Auto Off function, press and hold [SOURCE/OPEN] until the display disappears each time you turn the ignition off.

Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



Precautions

- Choisissez soigneusement l'emplacement d'installation pour que l'appareil ne gêne pas le conducteur pendant la conduite.
- Évitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.

Réglage de l'angle de montage
Régler l'inclinaison à un angle inférieur à 45°.

Retrait du tour de protection et du support 4

Avant d'installer l'appareil, retirez le tour de protection ④ et le support ⑤ de l'appareil.

- 1 Retirez le tour de protection ④. Pincez les deux bords du tour de protection ④, puis sortez-le.
- 2 Retirez le support ⑤. Insérez les clés de déblocage ⑥ en même temps entre l'appareil et le support ⑤ jusqu'au clic. Tirez le support ⑤ vers le bas, puis tirez sur l'appareil vers le haut pour le séparer.

Exemple de montage 5

Installation dans le tableau de bord

Remarques

- Enfonçant, pliez ces griffes vers l'extérieur pour assurer une prise correcte ⑤ 2.
- Assurez-vous que les 4 crochets situés sur le tour de protection ④ sont correctement engagés dans les fentes de l'appareil ⑤ 3.

Montage de l'appareil dans une voiture japonaise 6

Cet appareil ne peut pas être installé dans certaines voitures japonaises. Consultez, dans ce cas, votre détaillant Sony.

Remarque
Pour éviter tout problème de fonctionnement, utilisez uniquement les vis ⑦ fournies pour le montage.

Retrait et fixation de la façade 7

Avant d'installer l'appareil, retirez la façade.

7-A Pour la retirer
Avant de retirer la façade, n'oubliez pas de maintenir enfoncée la touche [SOURCE/OPEN]. Appuyez sur [OPEN], faites glisser la façade vers la droite, puis tirez doucement l'extrémité gauche de la façade pour la déloger.

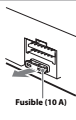
7-B Pour la fixer
Engager l'ortive ⑧ de la façade sur la tige ⑨ de l'appareil, puis pousser doucement sur le côté gauche pour l'installer en position.

Avertissement si le contact de votre véhicule ne comporte pas de position ACC

Veillez à régler la fonction de mise hors tension automatique. Pour obtenir davantage d'informations, reportez-vous au mode d'emploi fourni. L'appareil s'éteint complètement et automatiquement après les laps de temps choisis une fois l'appareil mis hors tension afin d'éviter que la batterie ne se décharge. Si vous ne réglez pas la fonction de mise hors tension automatique, appuyez sur la touche [SOURCE/OPEN] et maintenez-la enfoncée jusqu'à ce que l'affichage disparaisse à chaque fois que vous coupez le contact.

Remplacement du fusible

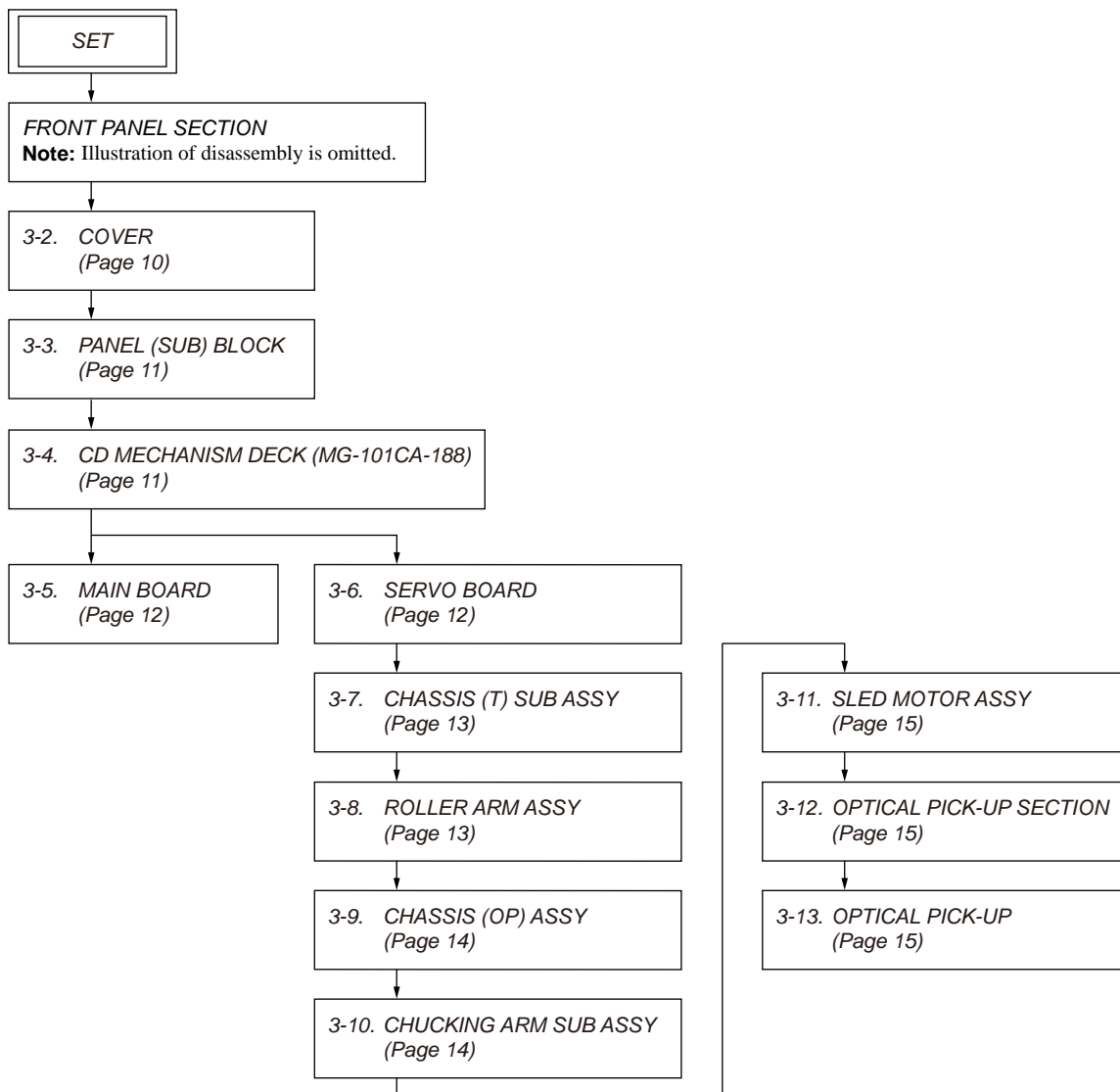
Lorsque vous remplacez le fusible, veillez à utiliser un fusible dont l'intensité, en ampères, correspond à la valeur indiquée sur le fusible usagé. Si le fusible grille, vérifiez le branchement de l'alimentation et remplacez le fusible. Si le nouveau fusible grille également, il est possible que l'appareil soit défectueux. Dans ce cas, consultez votre détaillant Sony le plus proche.



SECTION 3
DISASSEMBLY

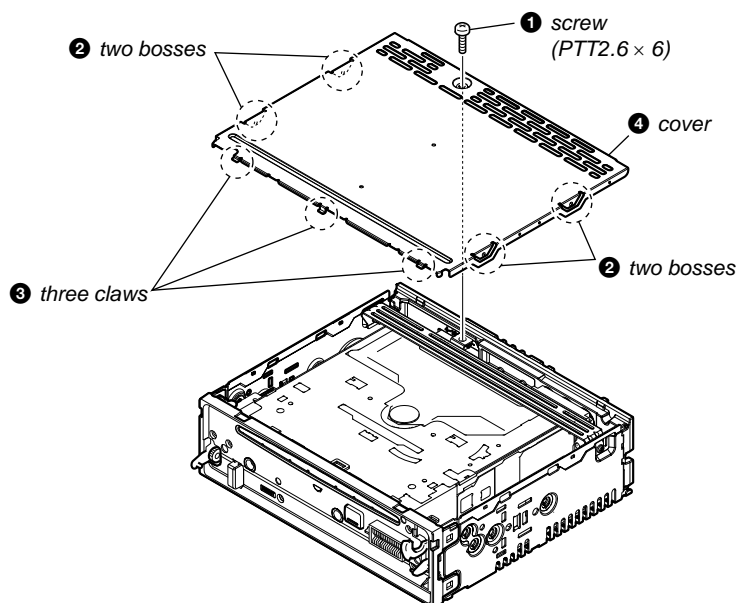
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

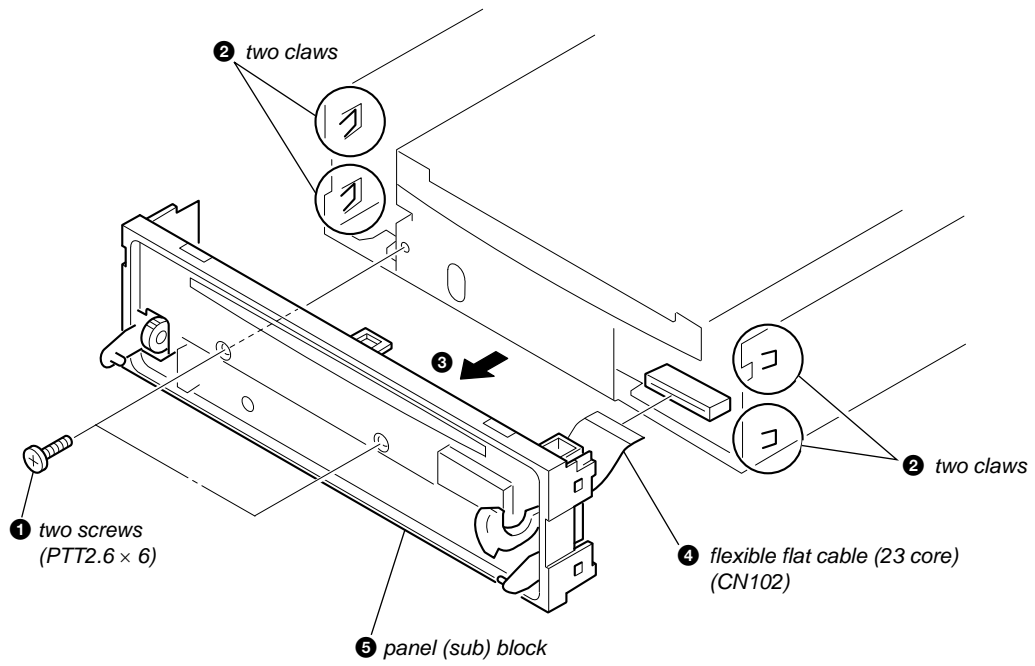


Note: Follow the disassembly procedure in the numerical order given.

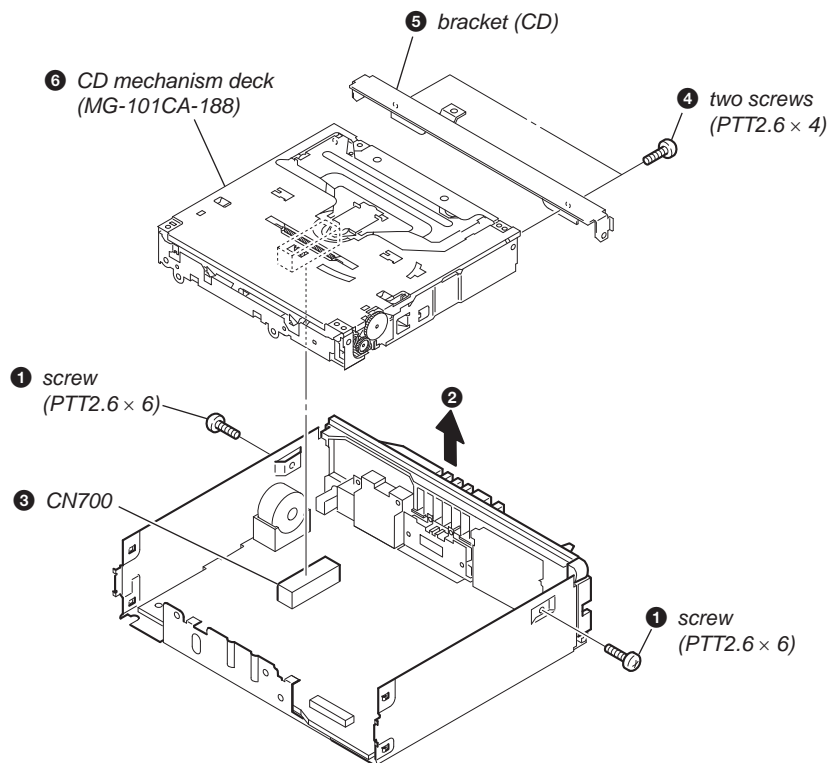
3-2. COVER



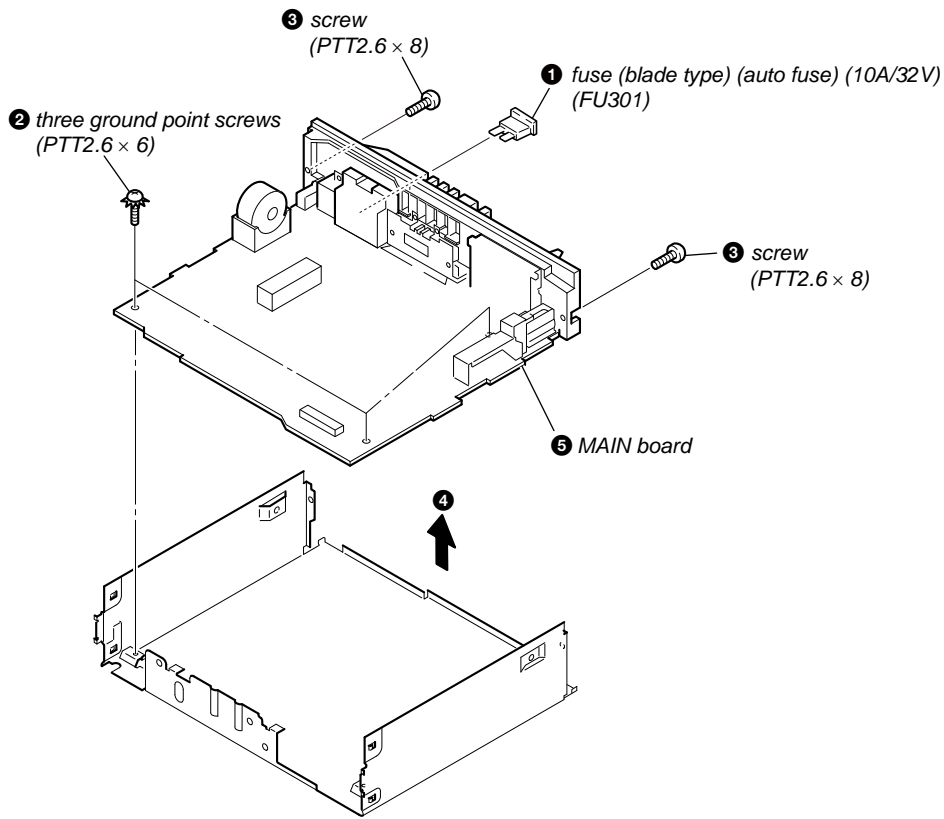
3-3. PANEL (SUB) BLOCK



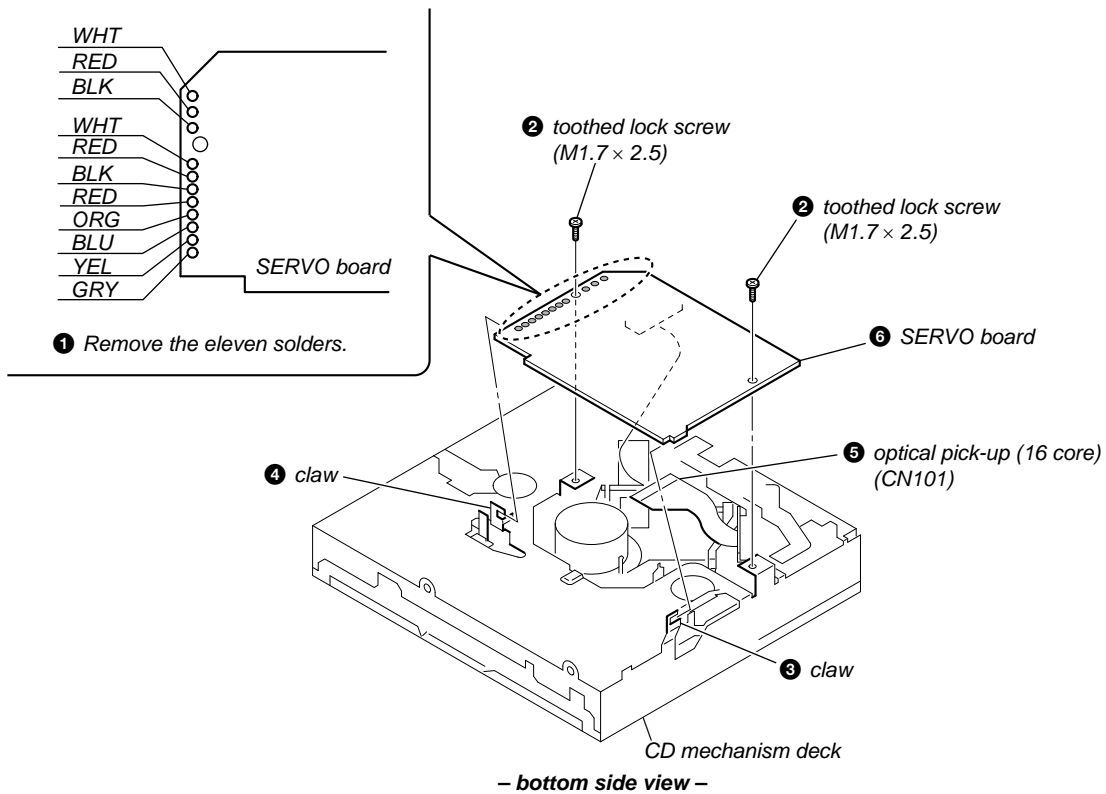
3-4. CD MECHANISM DECK (MG-101CA-188)



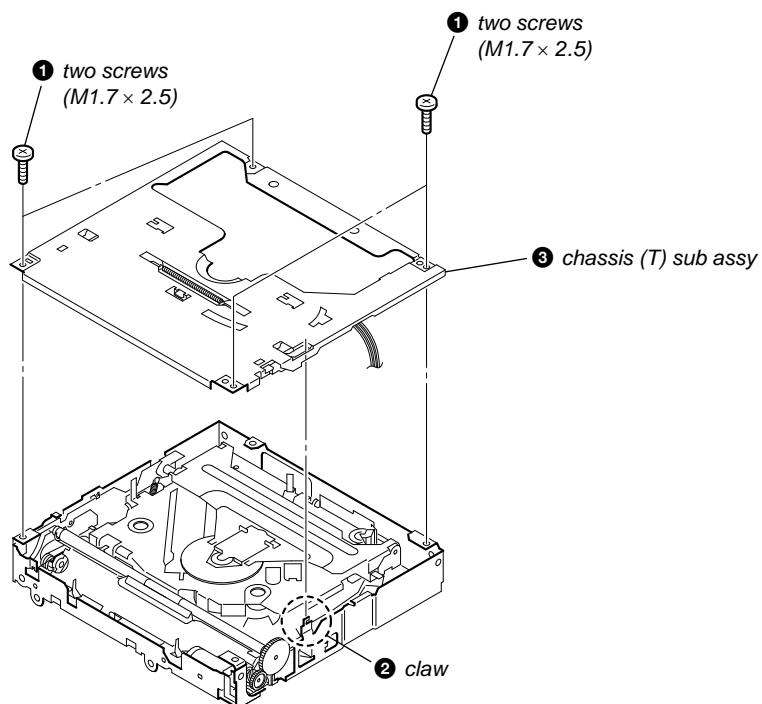
3-5. MAIN BOARD



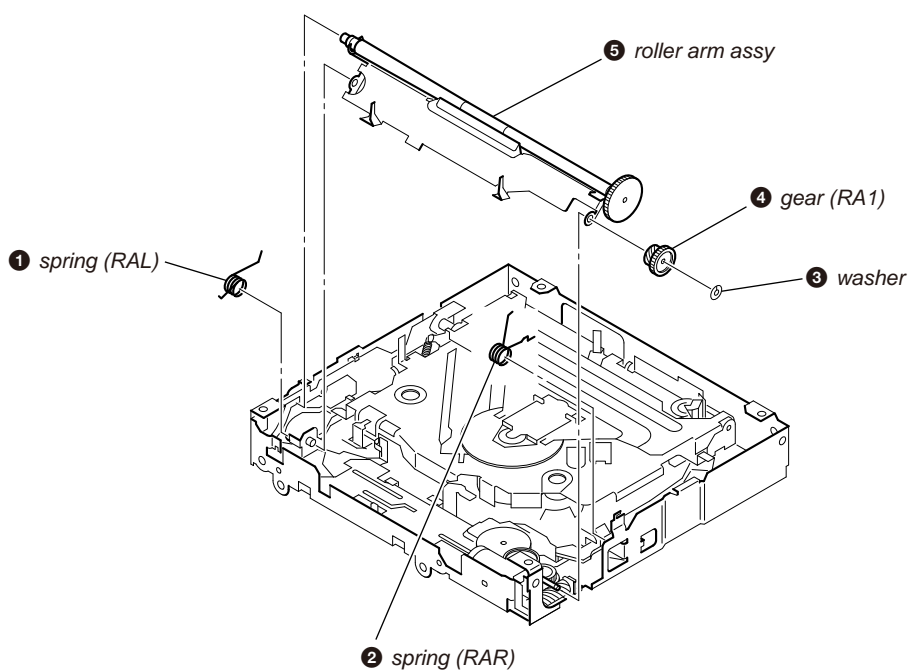
3-6. SERVO BOARD



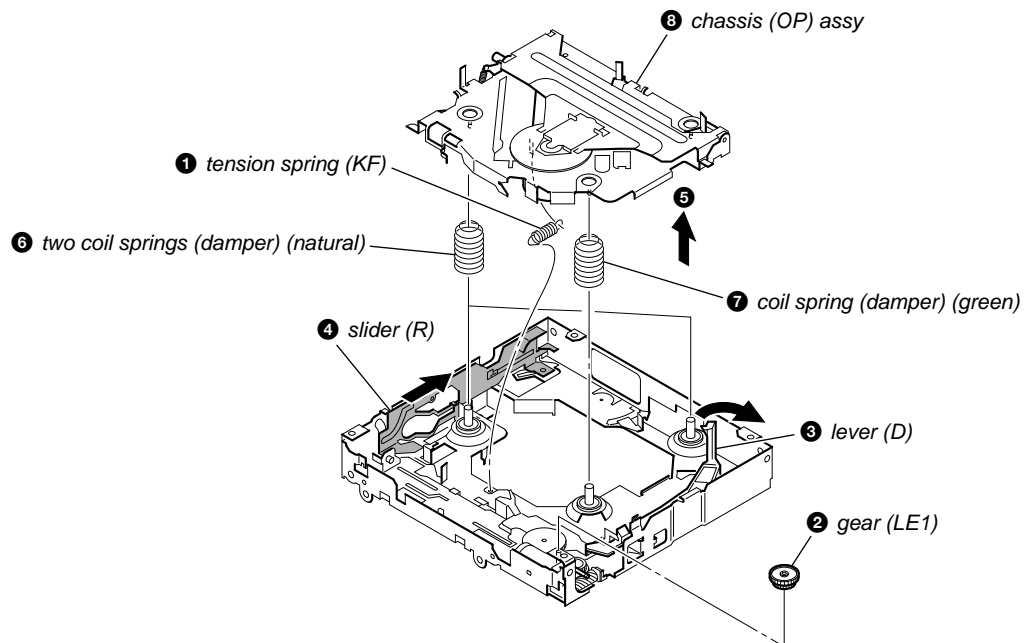
3-7. CHASSIS (T) SUB ASSY



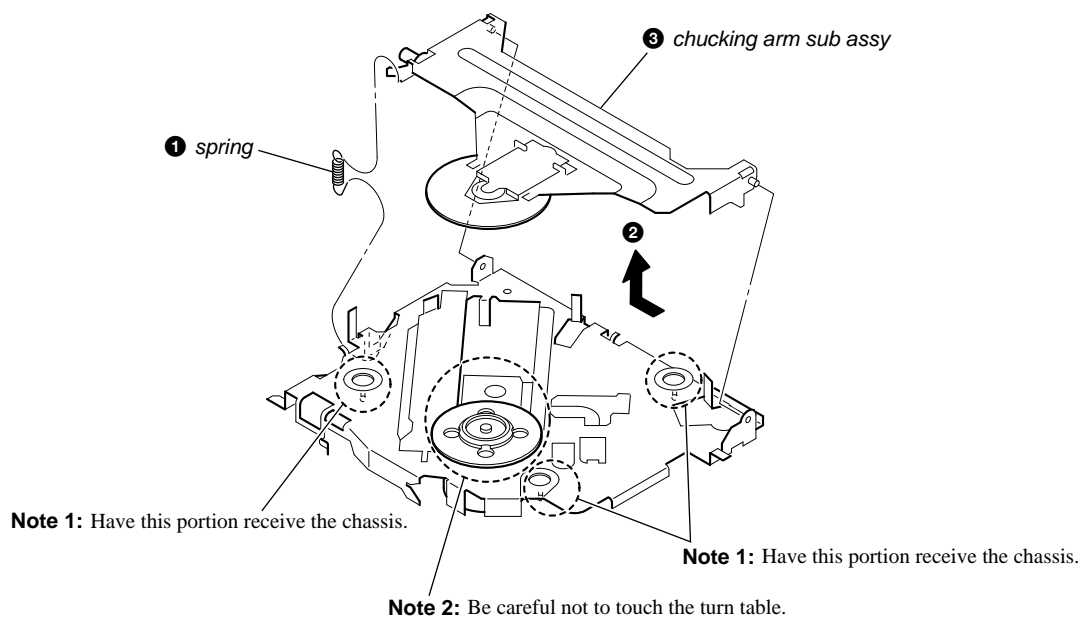
3-8. ROLLER ARM ASSY



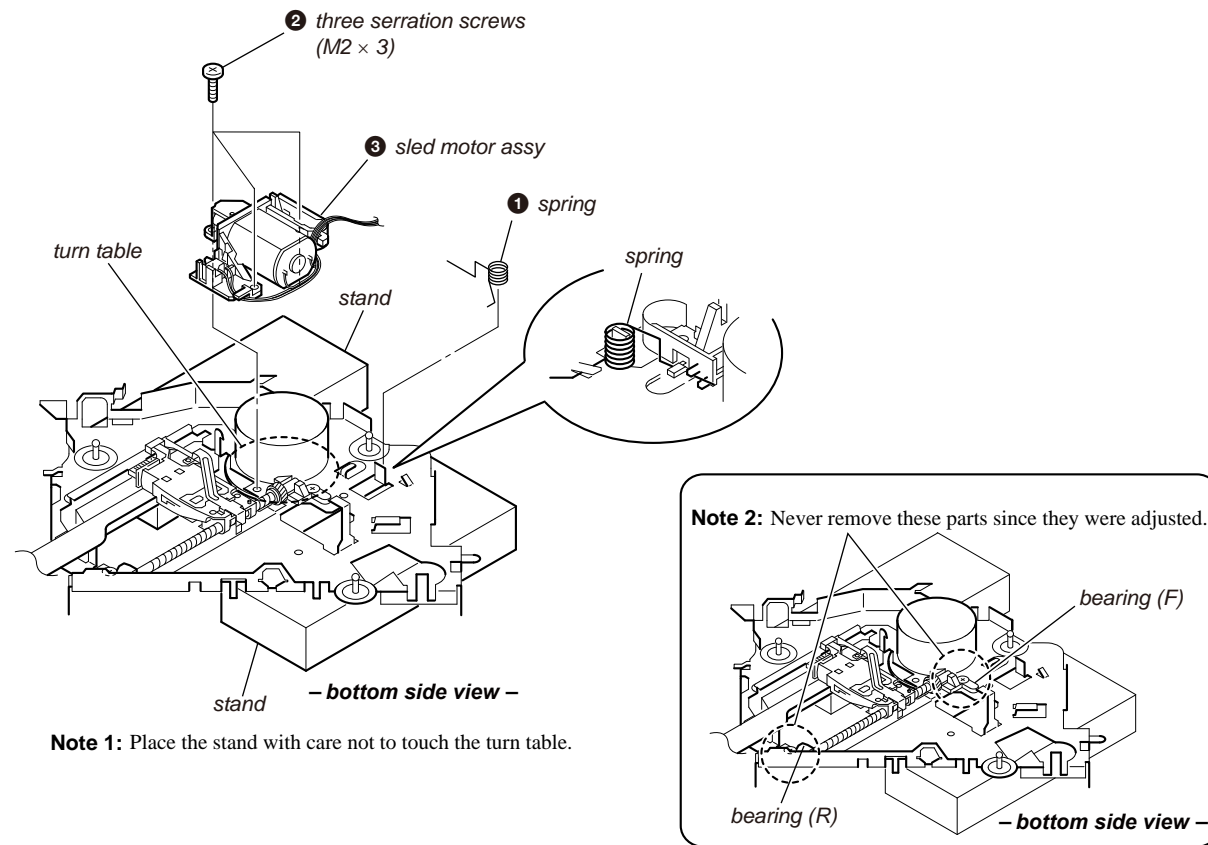
3-9. CHASSIS (OP) ASSY



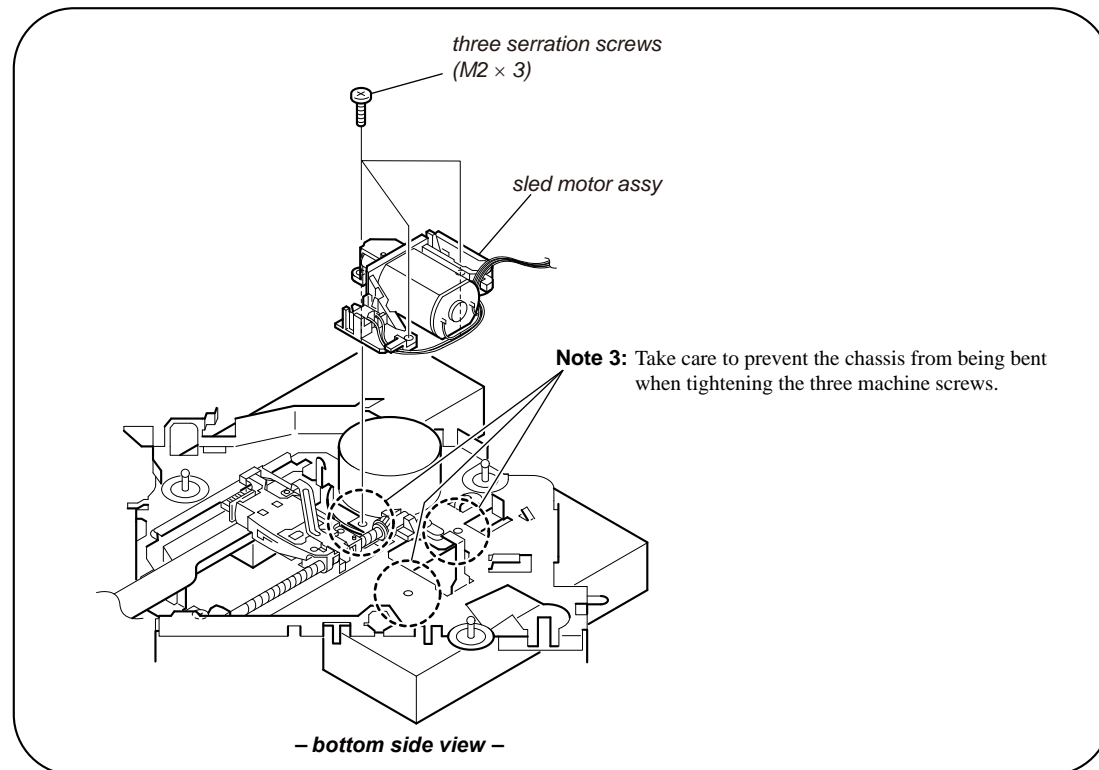
3-10. CHUCKING ARM SUB ASSY



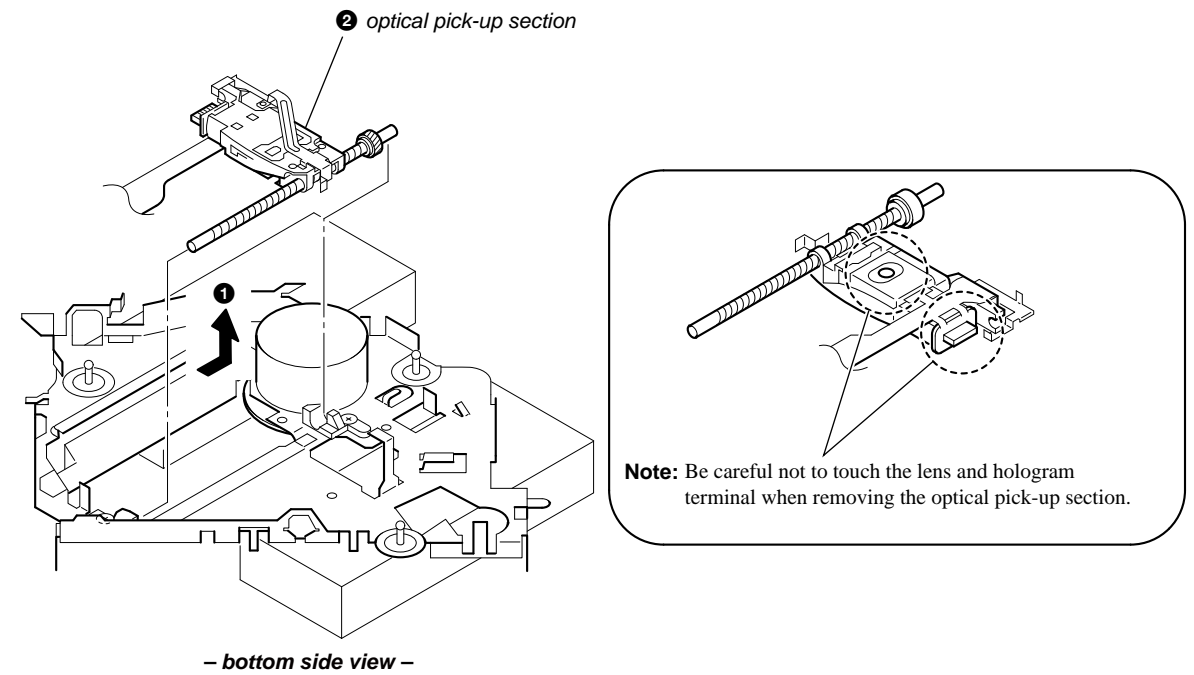
3-11. SLED MOTOR ASSY



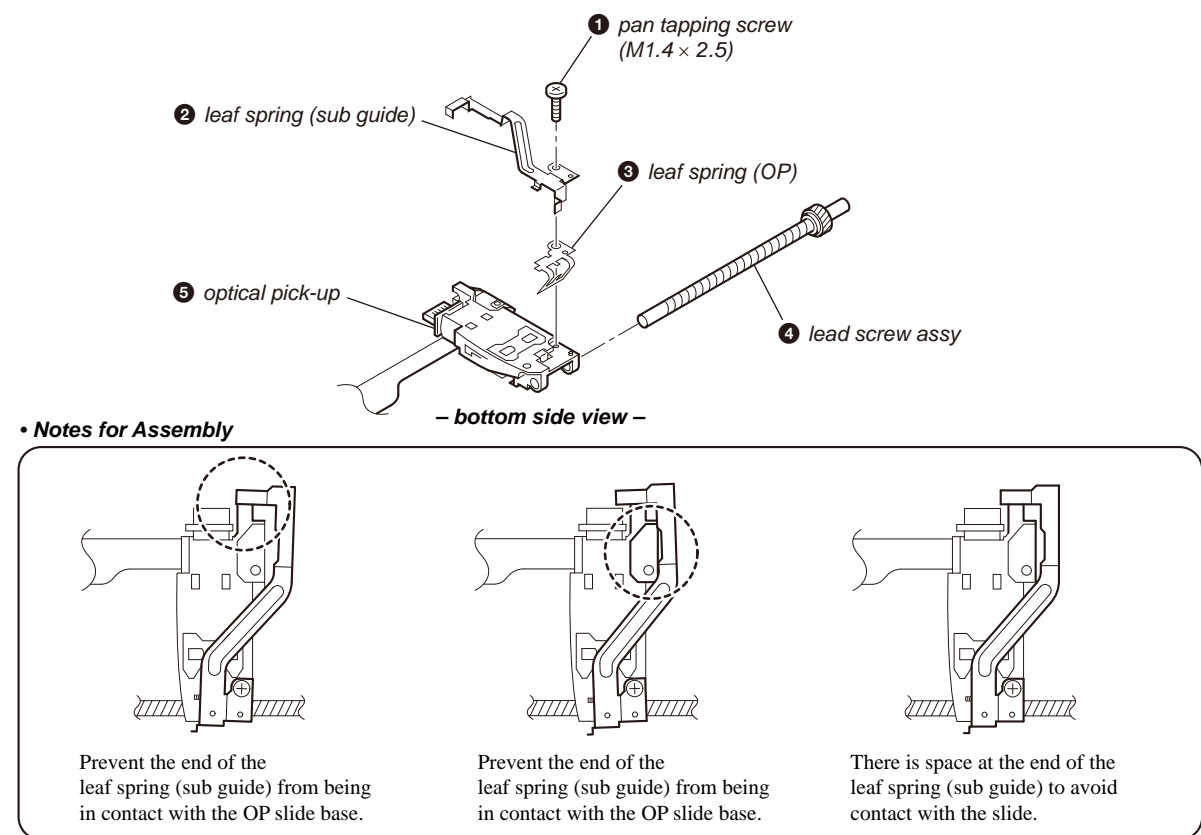
• Note for Assembly



3-12. OPTICAL PICK-UP SECTION

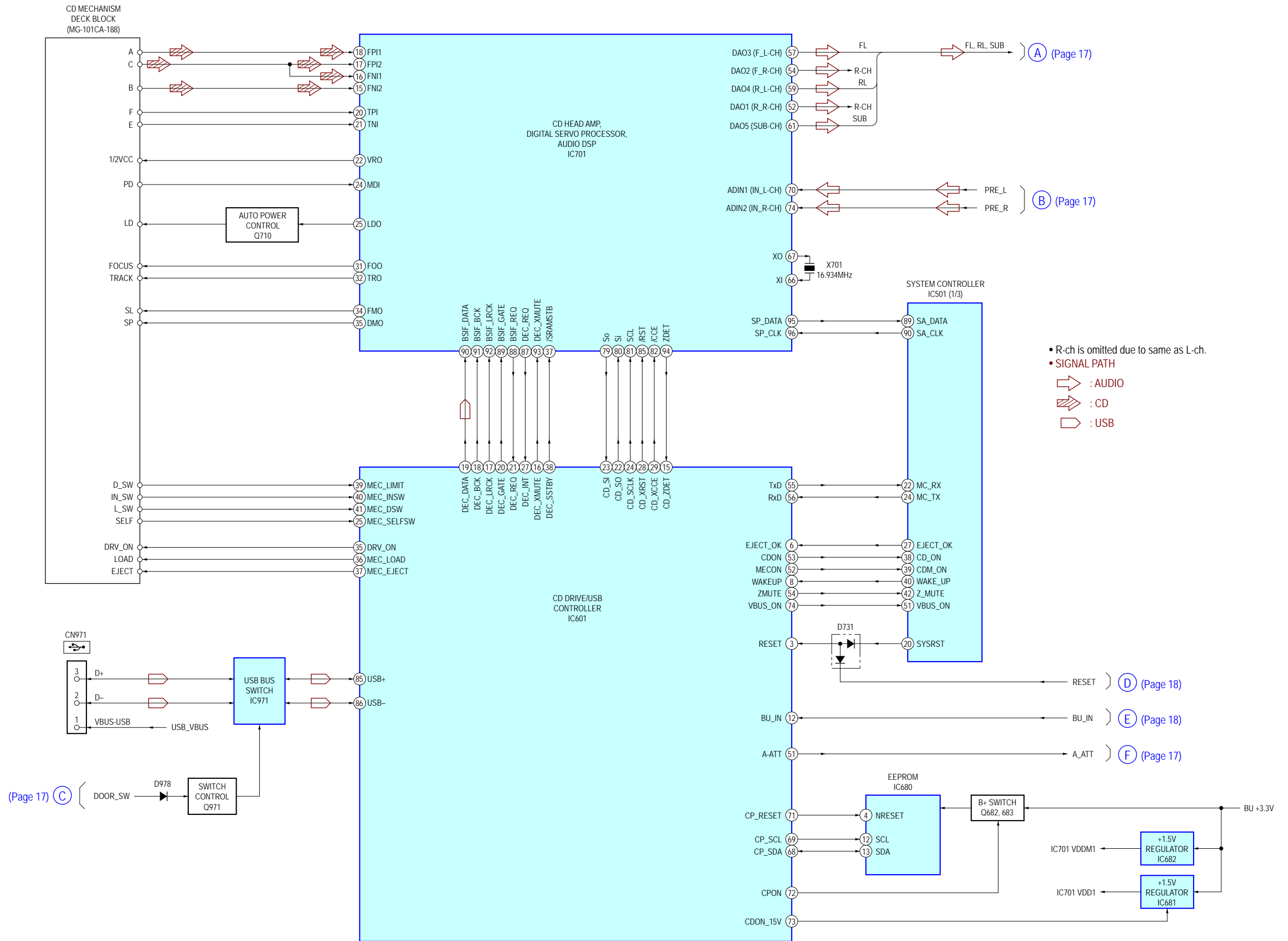


3-13. OPTICAL PICK-UP

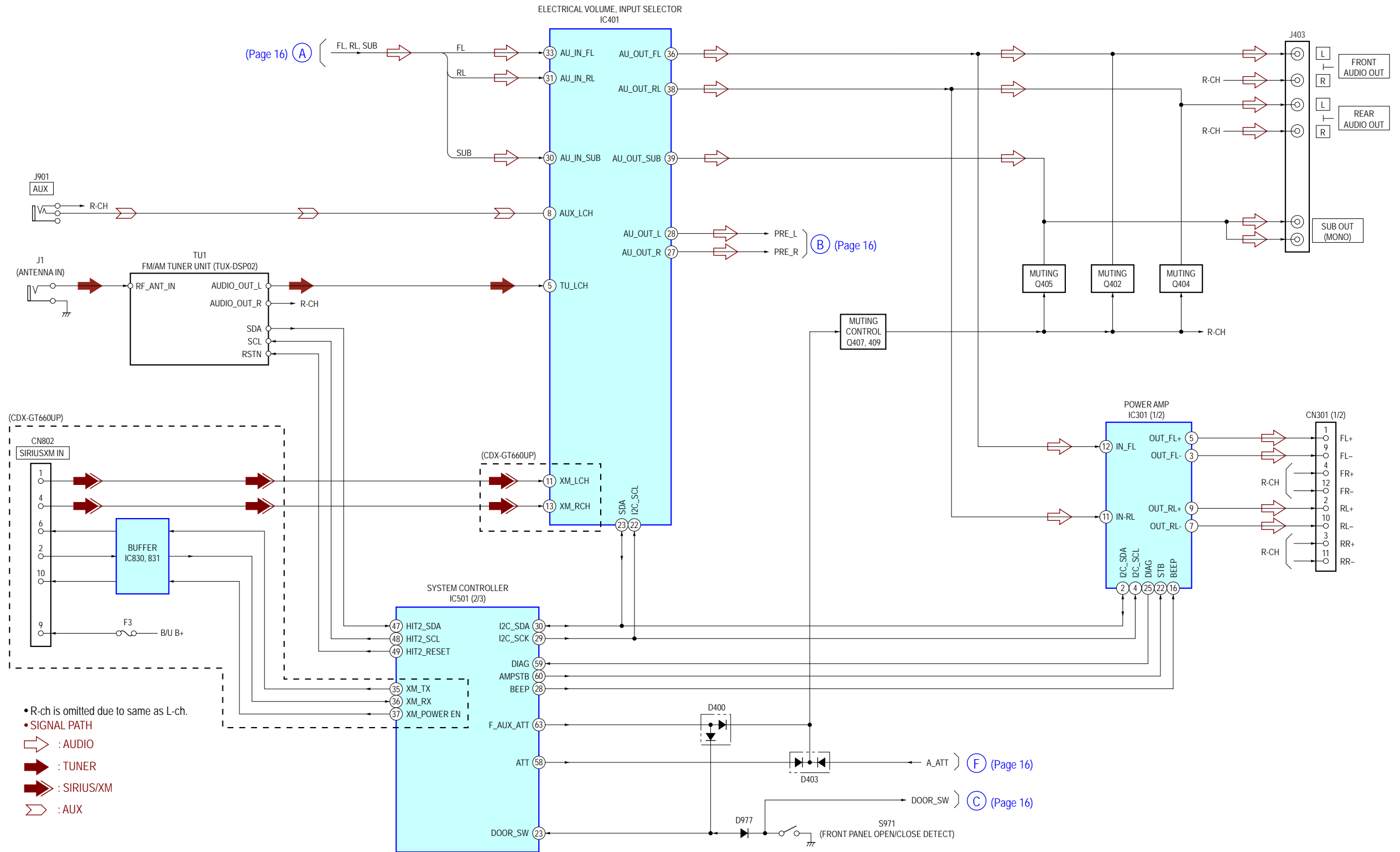


SECTION 4
DIAGRAMS

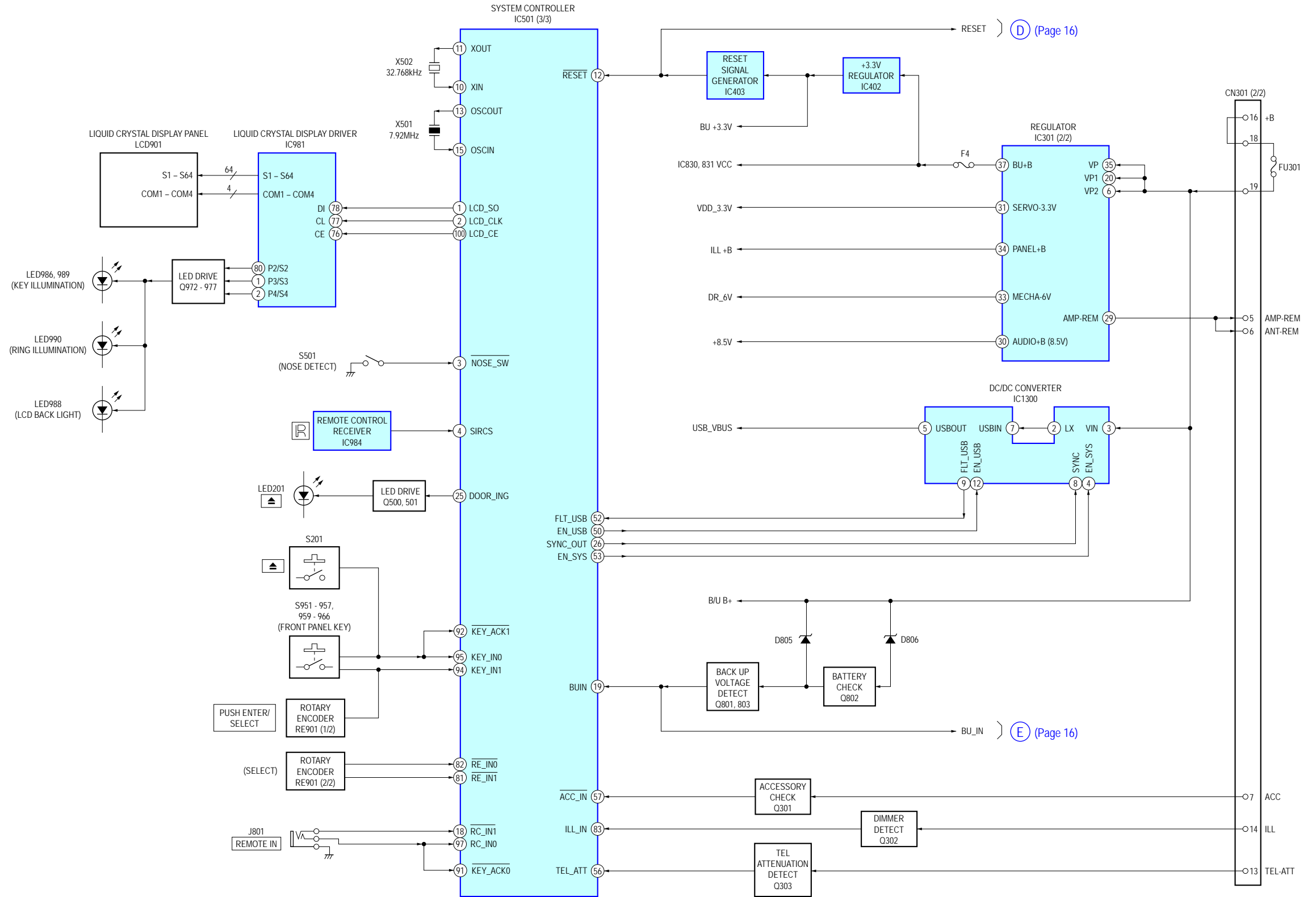
4-1. BLOCK DIAGRAM - SERVO Section -



4-2. BLOCK DIAGRAM - MAIN Section -



4-3. BLOCK DIAGRAM - PANEL, POWER SUPPLY Section -



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

For Printed Wiring Boards.

Note:

- : 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.)

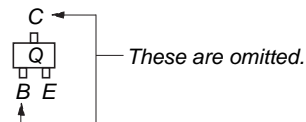
Caution:

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

Caution:

Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
 SIDE B: Parts on the parts face side seen from the parts face are indicated.
 Parts face side: Parts on the parts face side seen from the parts face are indicated.
 SIDE A: Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



- Abbreviation

EA : Saudi Arabia model
 MX : Mexican model

Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 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.

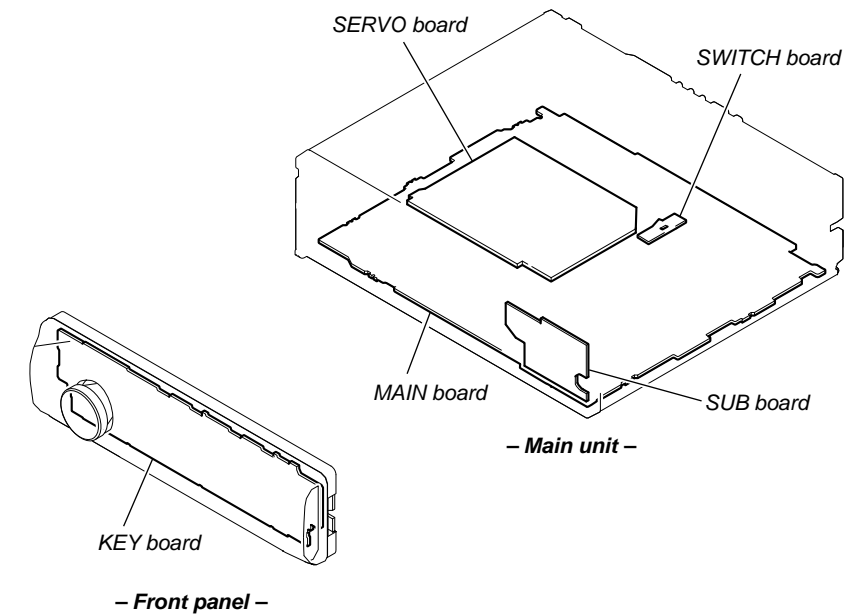
Note:

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

- **B+ Line.**
- Power voltages is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
 no mark: TUNER (FM)
 (): CD PLAY
 * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 □: AUDIO
 ■: TUNER
 ⊞: CD
 □: USB
 ■: SIRIUS/XM
 ⊞: AUX
- Abbreviation
 EA : Saudi Arabia model
 MX : Mexican model

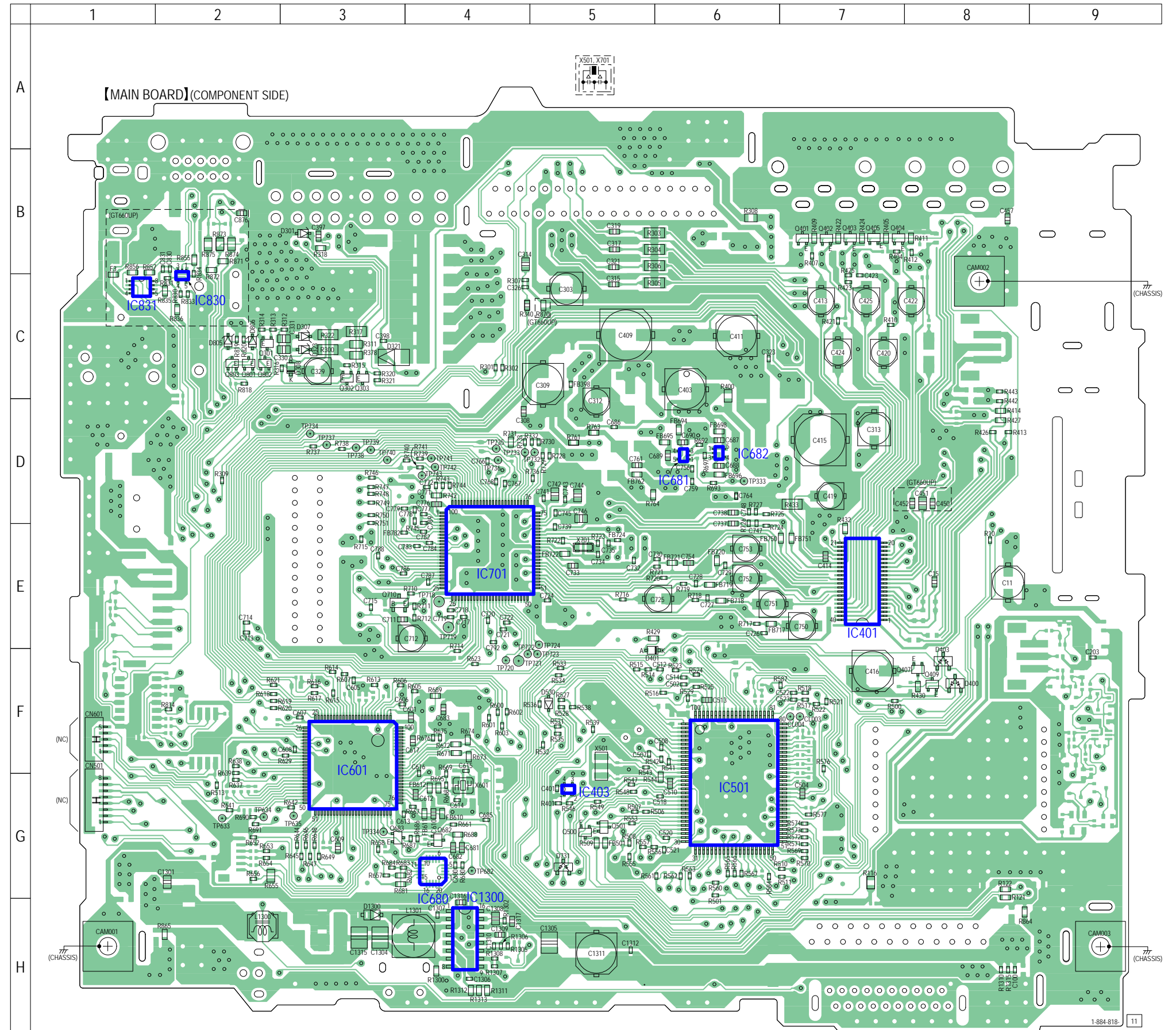
Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

• Circuit Boards Location



4-4. PRINTED WIRING BOARD - MAIN Section (1/2) (CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV: E, Mexican/GT717UV) -

• See page 19 for Circuit Boards Location. •  : Uses unleaded solder.

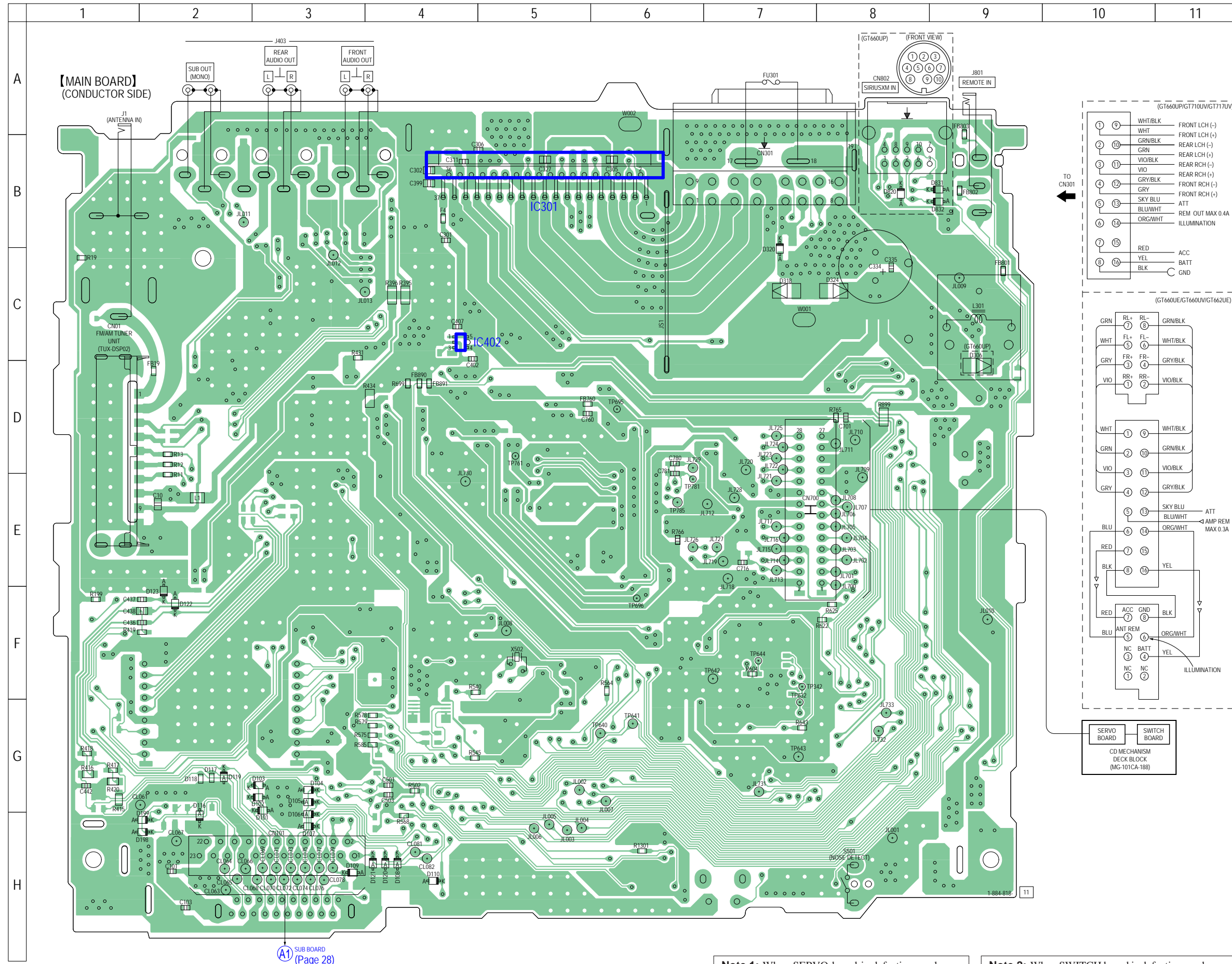


Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

4-5. PRINTED WIRING BOARDS - MAIN Section (2/2) (CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV: E, Mexican/GT717UV) -

• See page 19 for Circuit Boards Location. •  : Uses unleaded solder.

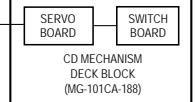


(GT660UP/GT710UV/GT717UV)

1	9	WHT/BLK	FRONT LCH (-)
		WHT	FRONT LCH (+)
2	10	GRN/BLK	REAR LCH (-)
		GRN	REAR LCH (+)
3	11	VIO/BLK	REAR RCH (-)
		VIO	REAR RCH (+)
4	12	GRY/BLK	FRONT RCH (-)
		GRY	FRONT RCH (+)
5	13	SKY BLU	ATT
6	14	BLU/WHT	REM OUT MAX 0.4A
		ORG/WHT	ILLUMINATION
7	15	RED	ACC
8	16	YEL	BATT
		BLK	GND

(GT660UE/GT660UV/GT662UE)

GRN	RL+	RL-	GRN/BLK
WHT	FL+	FL-	WHT/BLK
GRY	FR+	FR-	GRY/BLK
VIO	RR+	RR-	VIO/BLK
WHT	1	9	WHT/BLK
GRN	2	10	GRN/BLK
VIO	3	11	VIO/BLK
GRY	4	12	GRY/BLK
BLU	5	13	SKY BLU
			ATT
			BLU/WHT
			AMP REM
			MAX 0.3A
			ORG/WHT
			ILLUMINATION
			YEL
			BLK
			GND
			ACC
			ANT REM
			NC
			BATT
			NC
			YEL
			ILLUMINATION
			NC
			NC

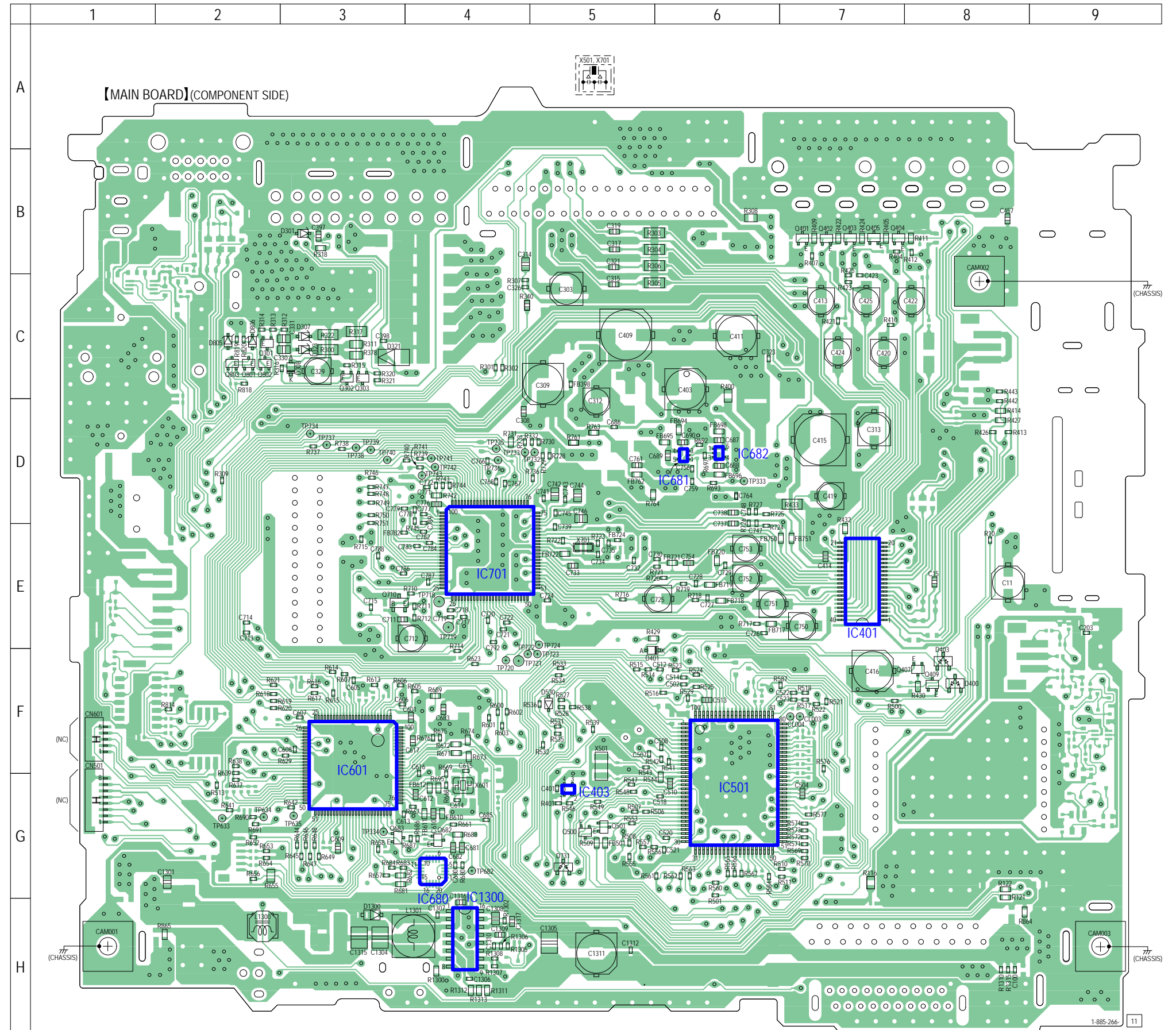


Note 1: When SERVO board is defective, exchange the complete mounted board.

Note 2: When SWITCH board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08.

4-6. PRINTED WIRING BOARD - MAIN Section (1/2) (CDX-GT710UV: Saudi Arabia model) -

• See page 19 for Circuit Boards Location. •  : Uses unleaded solder.

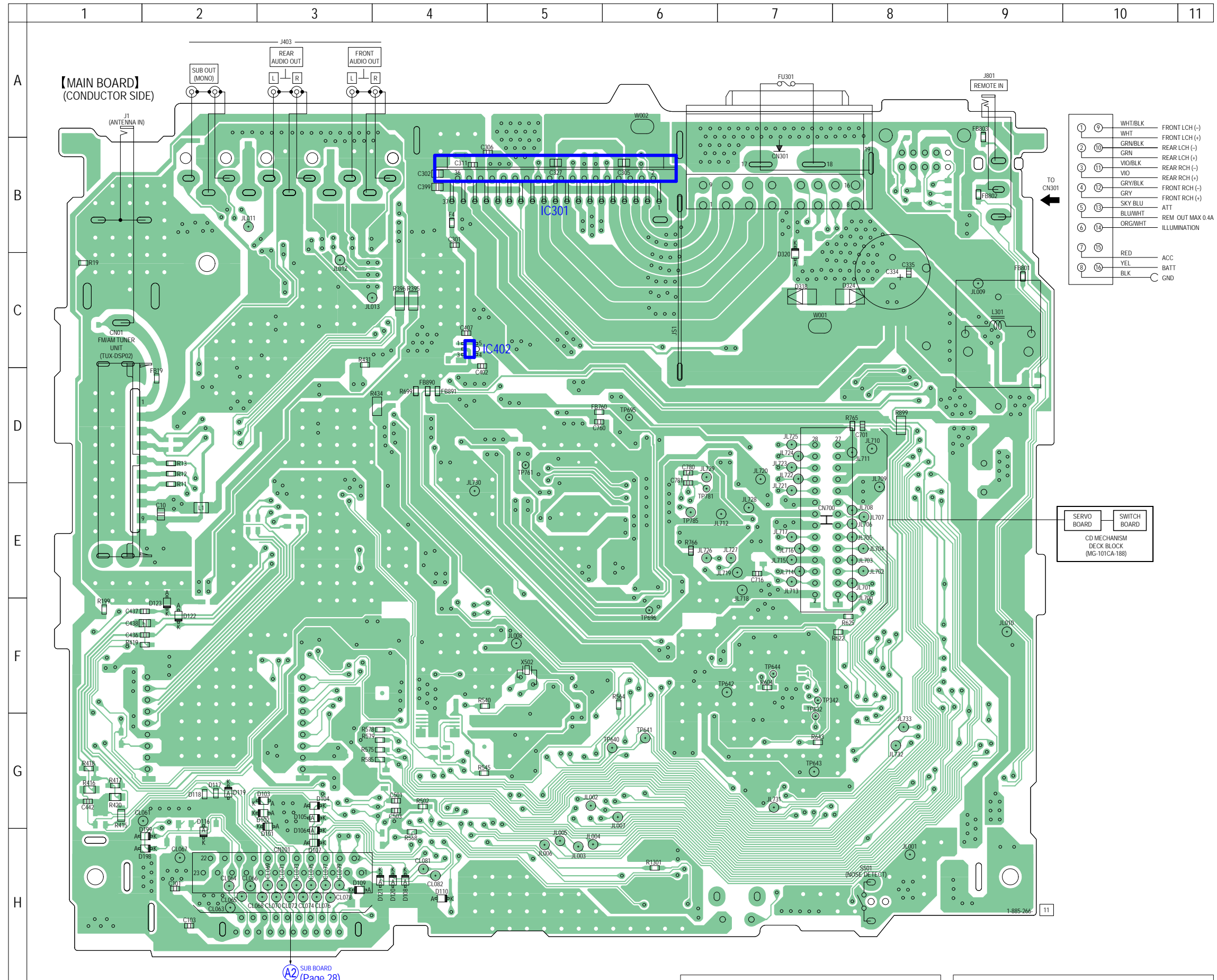


Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

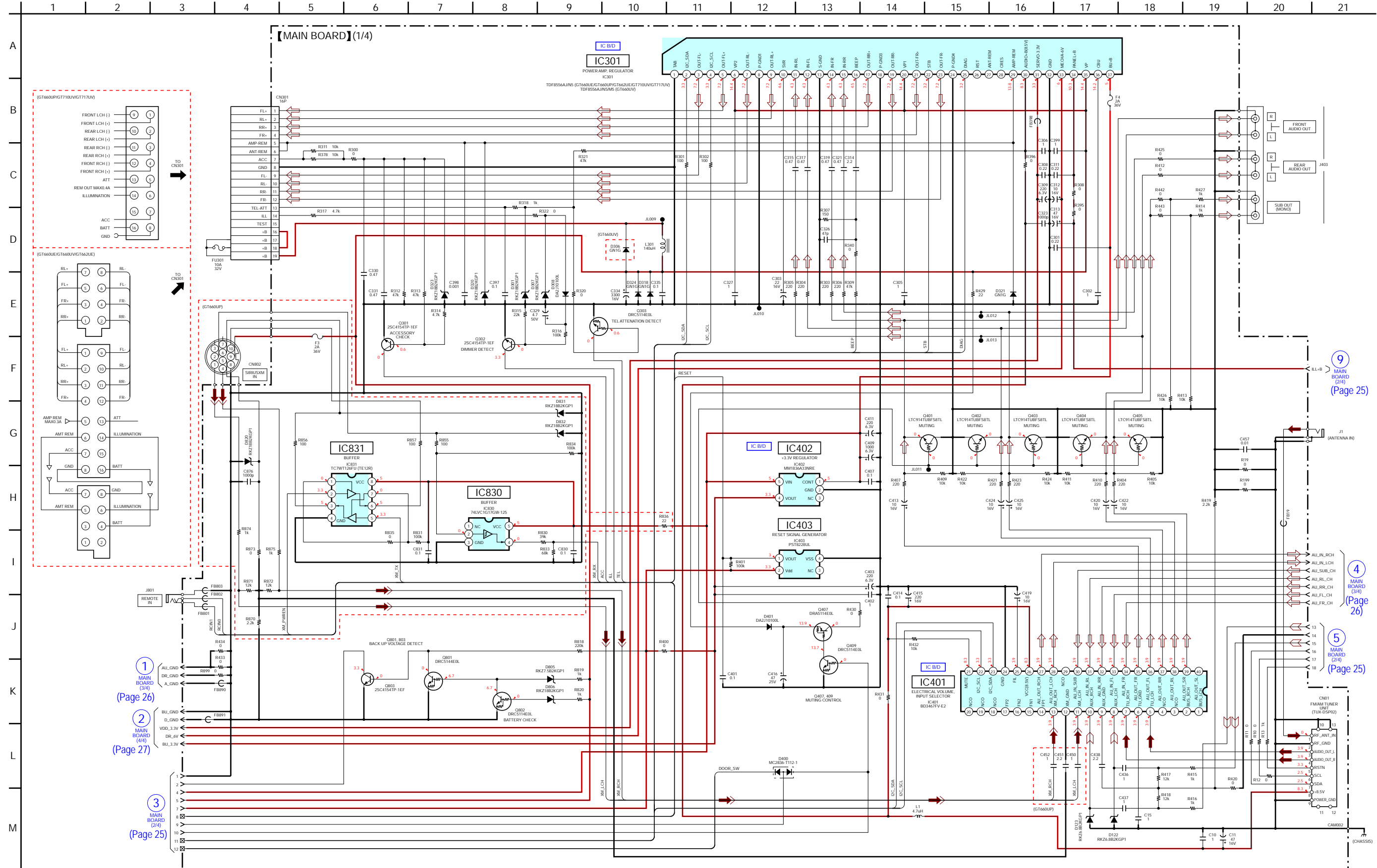
Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

4-7. PRINTED WIRING BOARDS - MAIN Section (2/2) (CDX-GT710UV: Saudi Arabia model) -

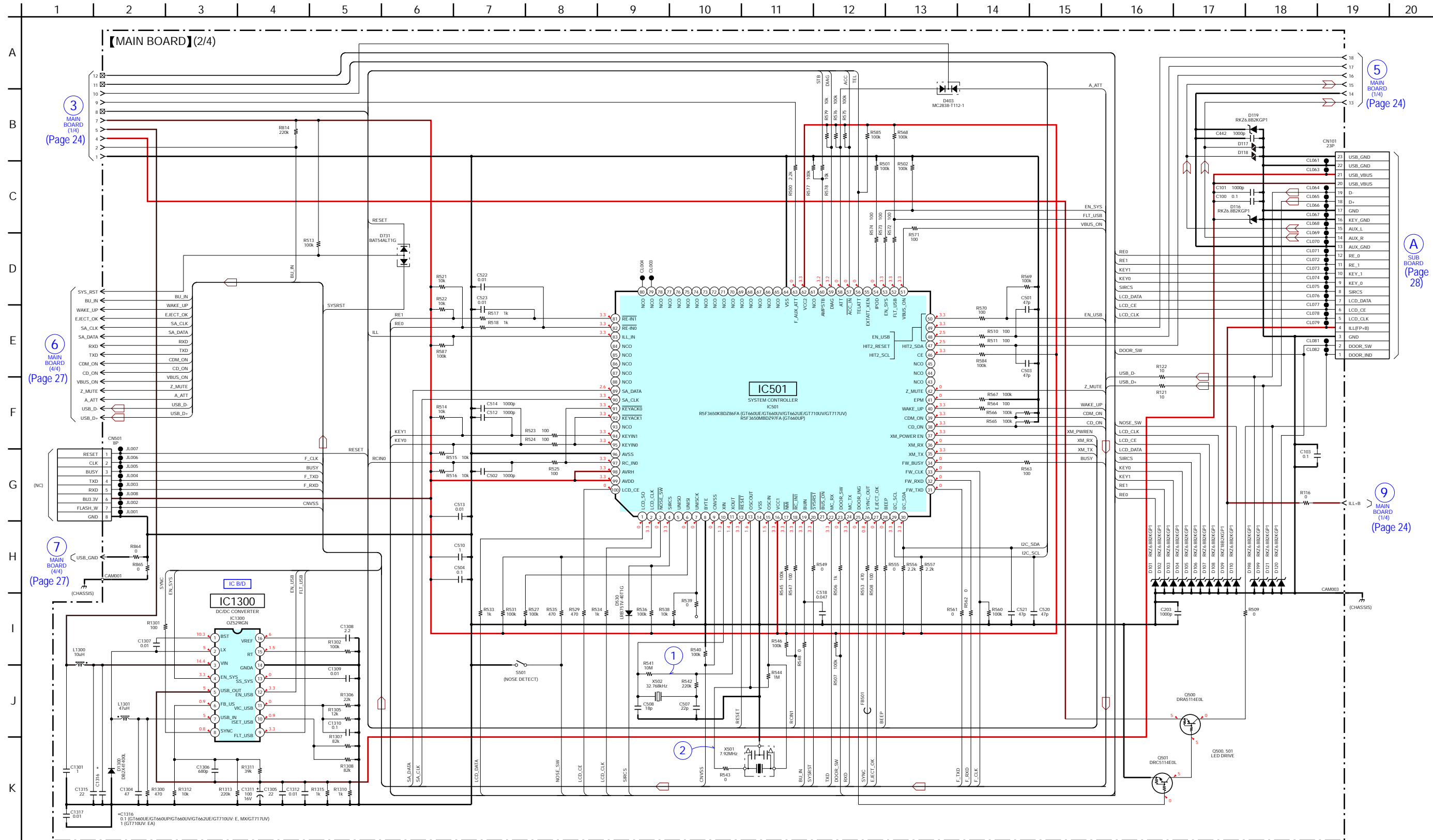
• See page 19 for Circuit Boards Location. •  : Uses unleaded solder.



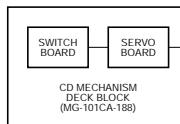
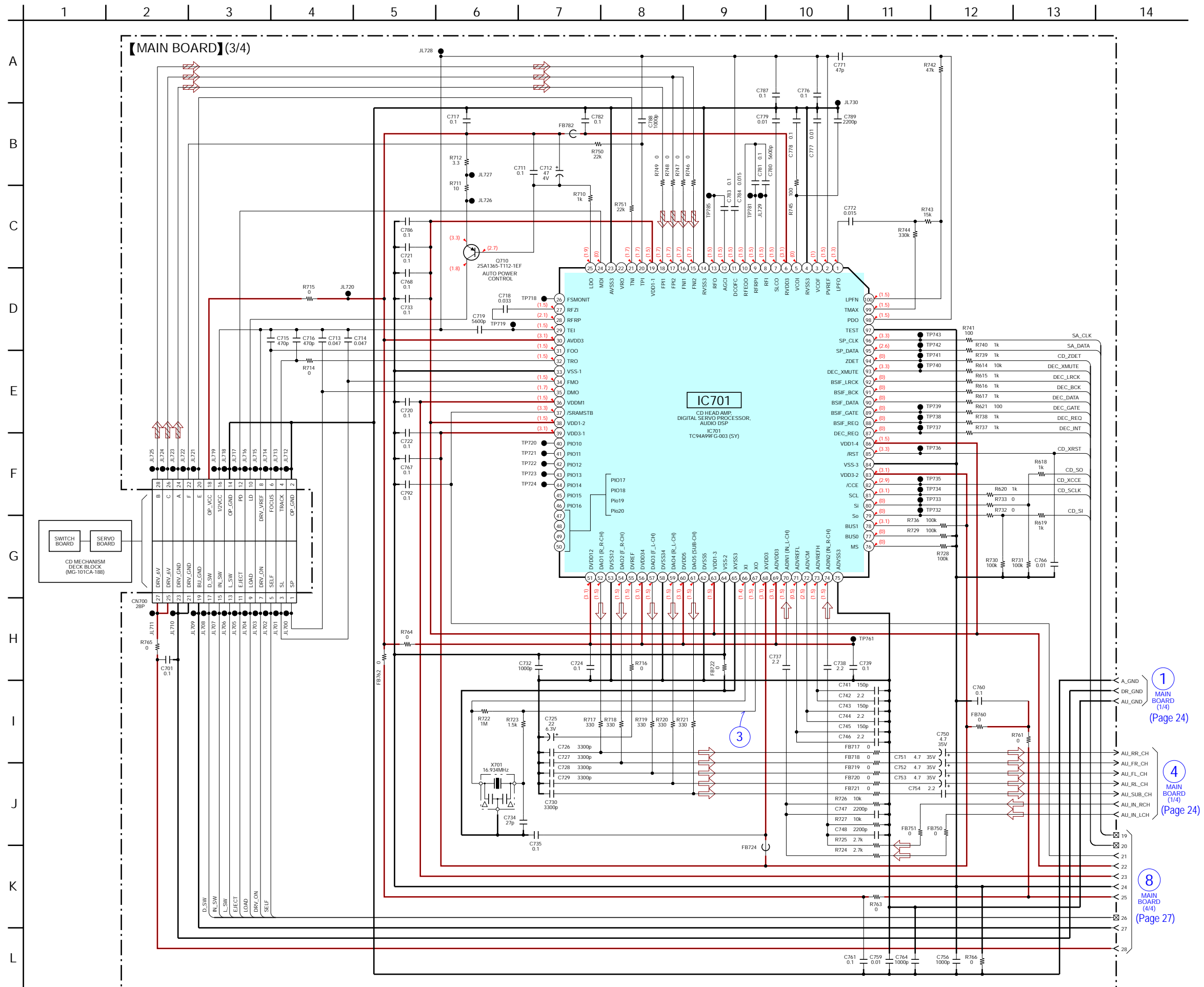
4-8. SCHEMATIC DIAGRAM - MAIN Section (1/4) - • See page 31 for IC Block Diagrams.



4-9. SCHEMATIC DIAGRAM - MAIN Section (2/4) • See page 31 for waveforms. • See page 31 for IC Block Diagrams. • See page 34 for IC Pin Function Description.



4-10. SCHEMATIC DIAGRAM - MAIN Section (3/4) - • See page 31 for waveforms. • See page 34 for IC Pin Function Description.

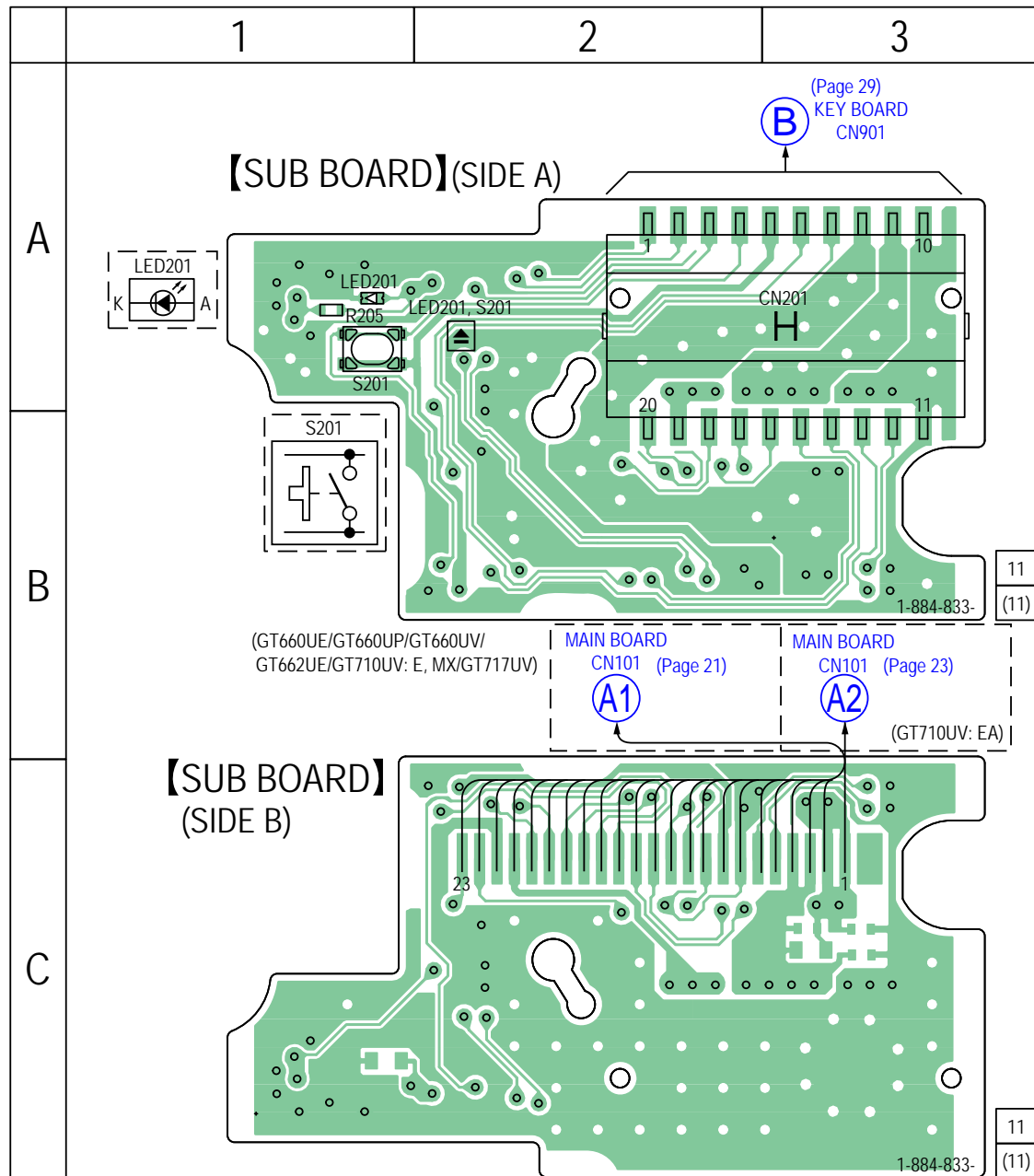


Note 1: When SERVO board is defective, exchange the complete mounted board.

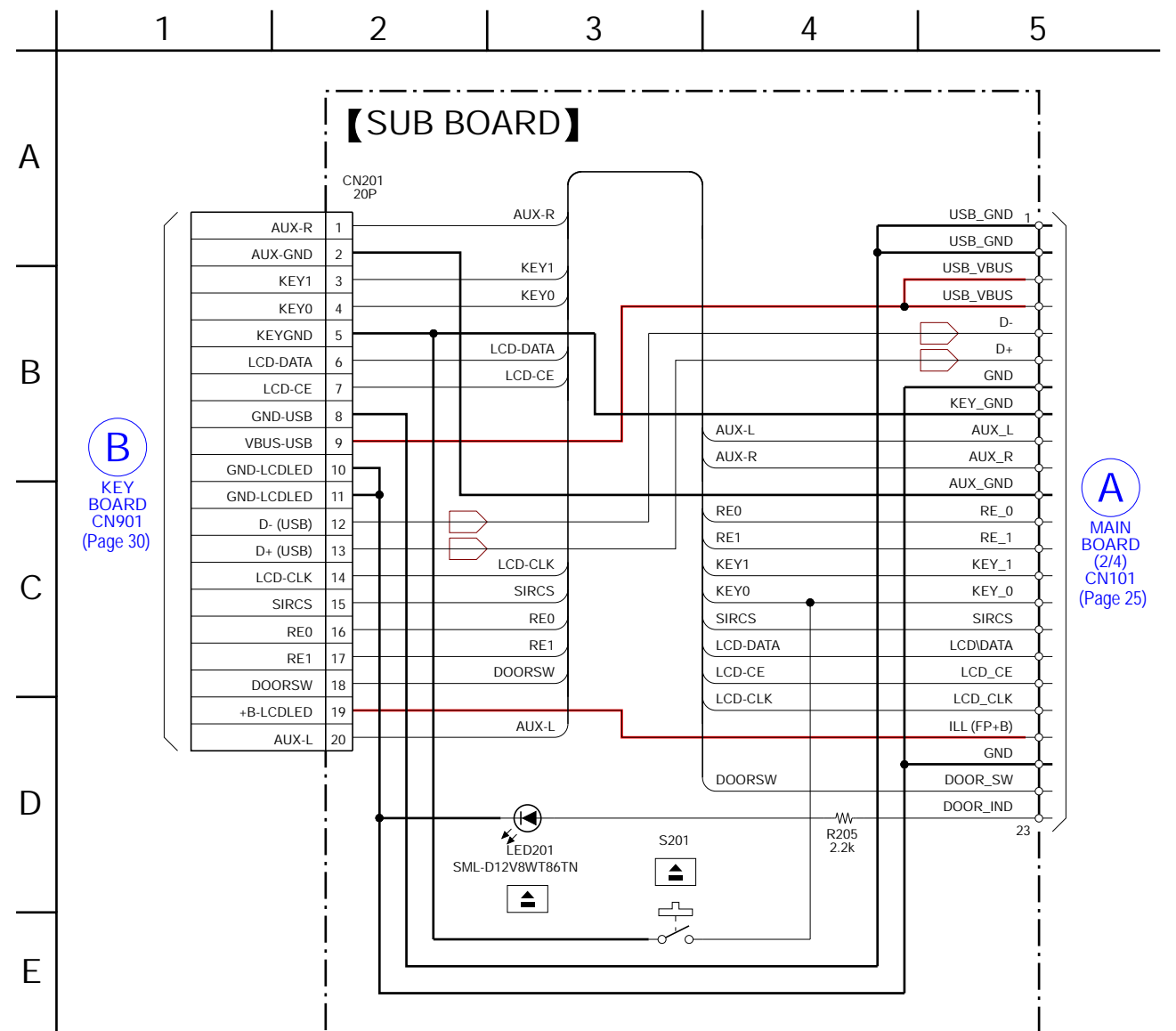
Note 2: When SWITCH board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08.

4-12. PRINTED WIRING BOARD - SUB Board -

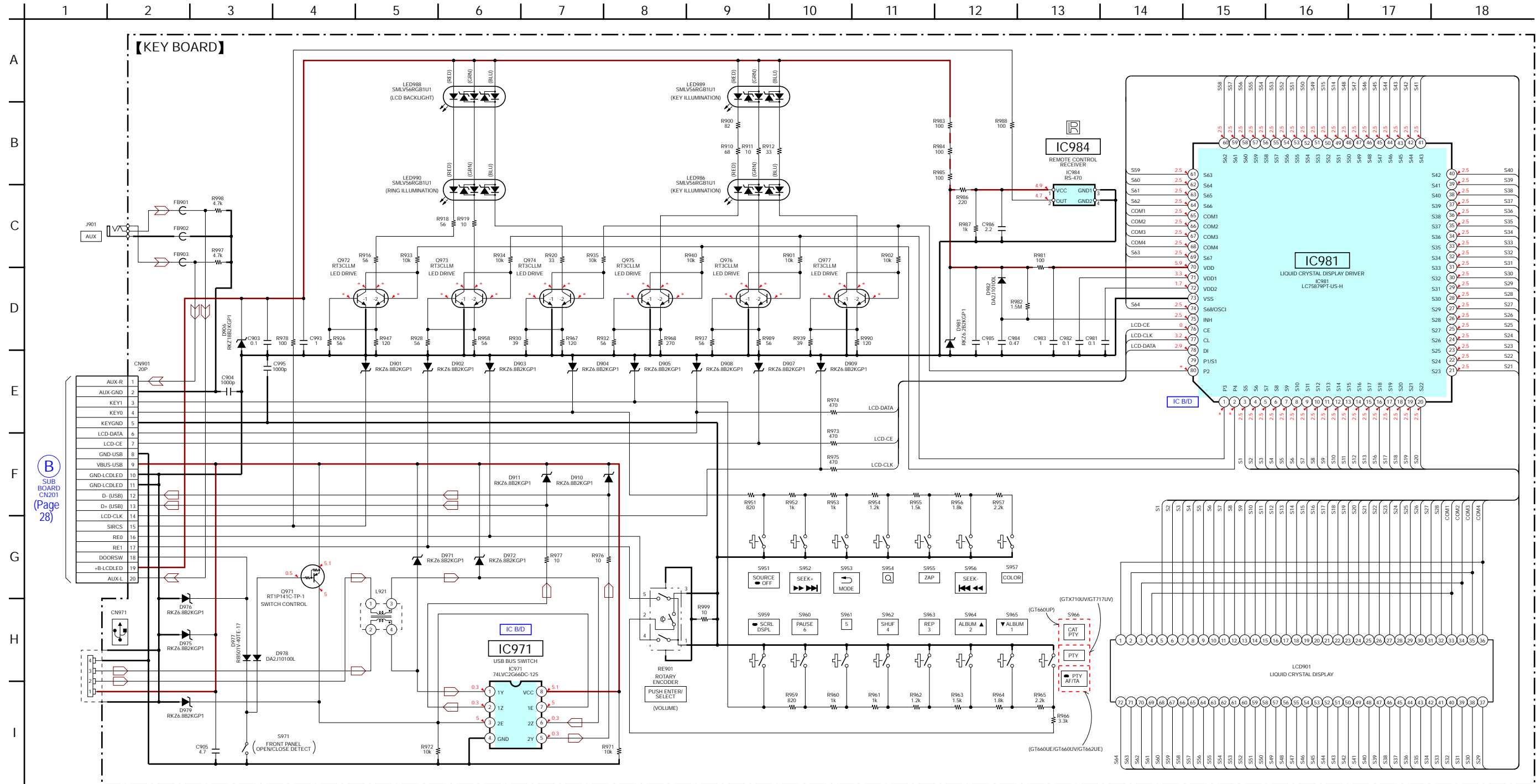
• See page 19 for Circuit Boards Location. •  : Uses unleaded solder.



4-13. SCHEMATIC DIAGRAM - SUB Board -



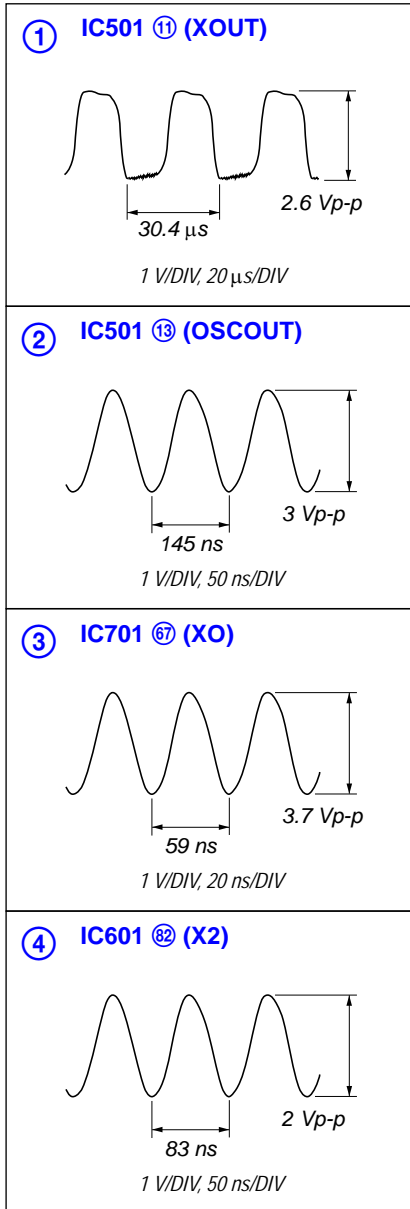
4-15. SCHEMATIC DIAGRAM - KEY Board - • See page 31 for IC Block Diagrams.



Note: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

• Waveforms

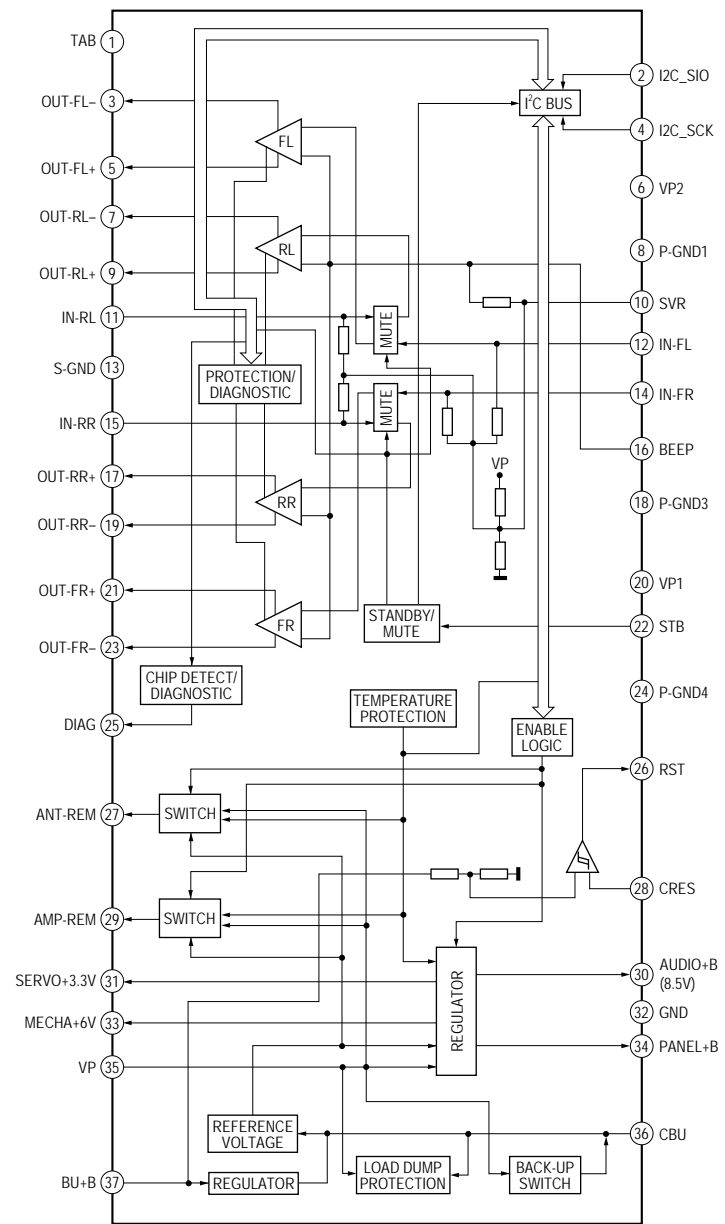
– MAIN Board –



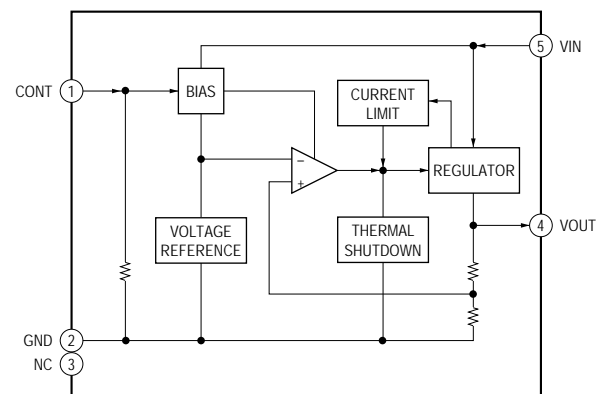
• IC Block Diagrams

– MAIN Board –

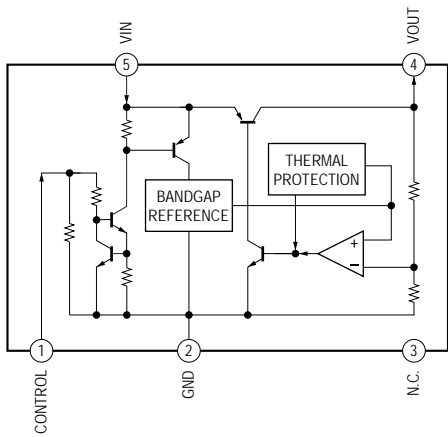
IC301 TDF8556AJ/N5 (GT660UE/GT660UP/GT662UE/GT710UV/GT717UV)
TDF8556AJ/N5/M5 (GT660UV)



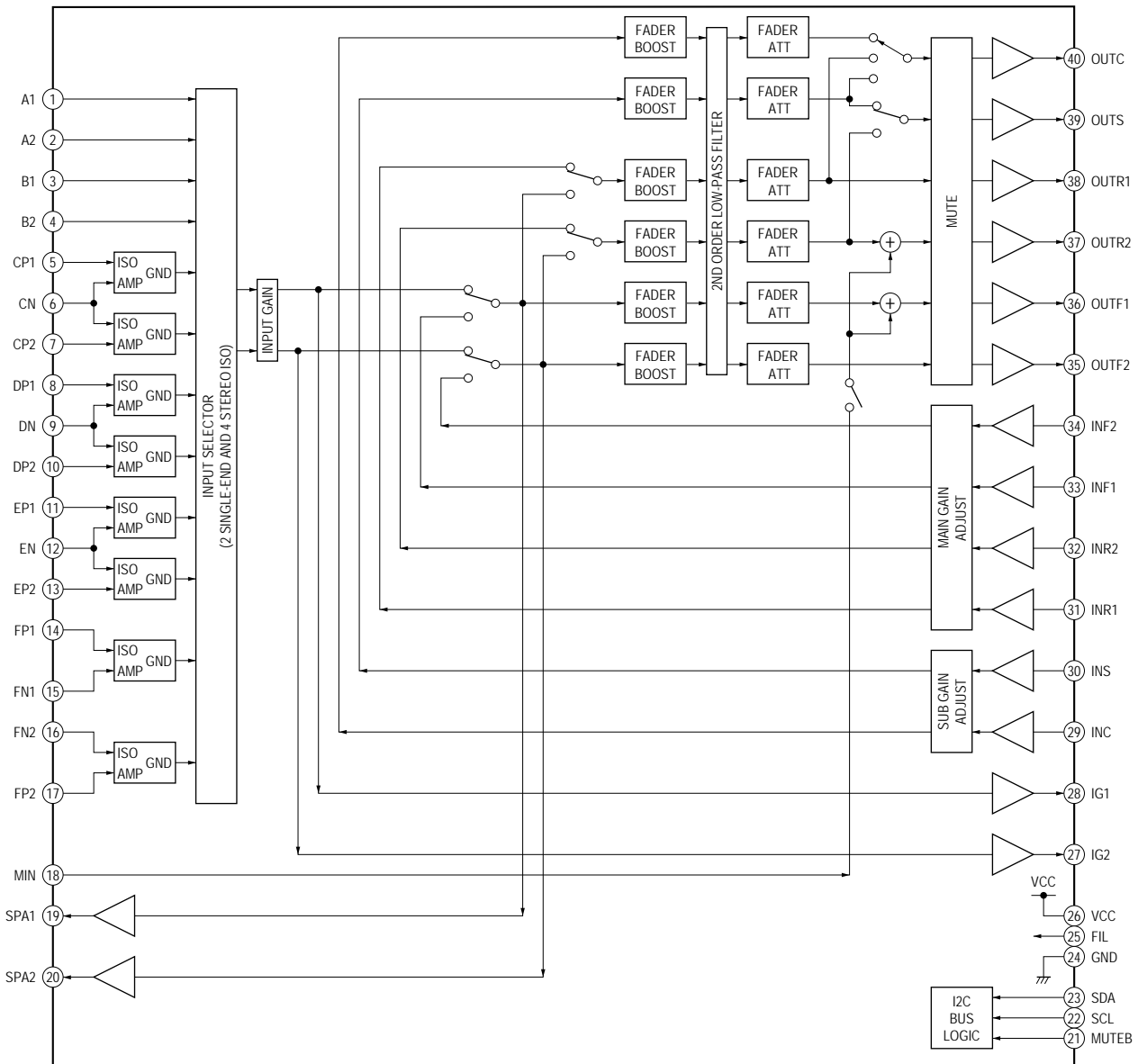
IC402 MM1836A33NRE



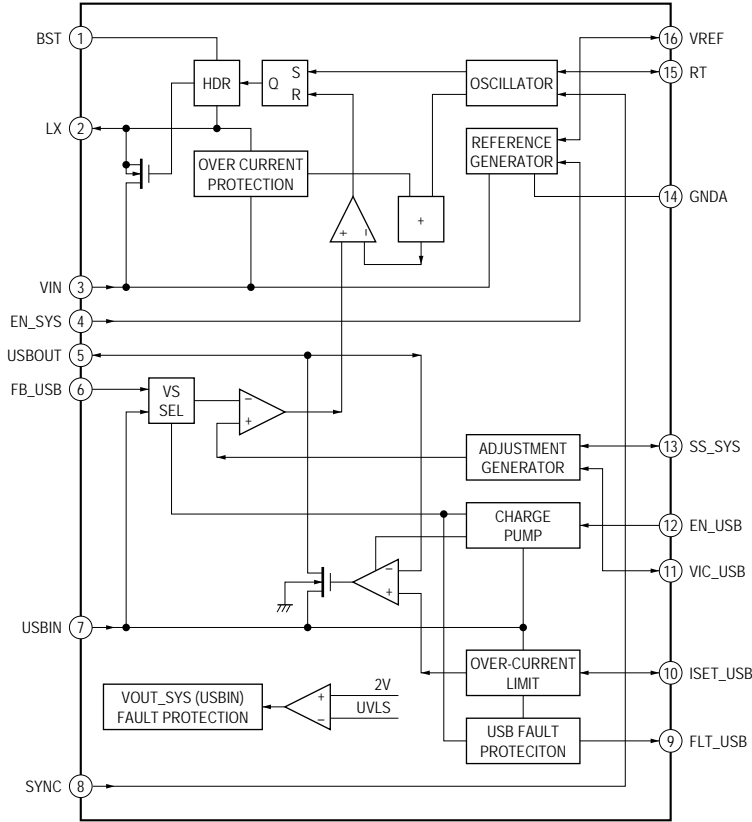
IC681, 682 NJM2878F3-15 (TE2)



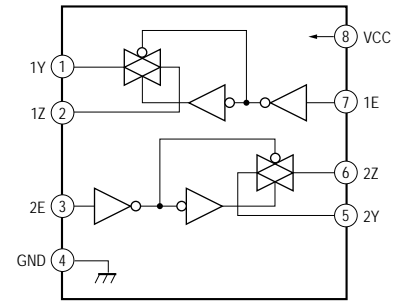
IC401 BD3467FV-E2



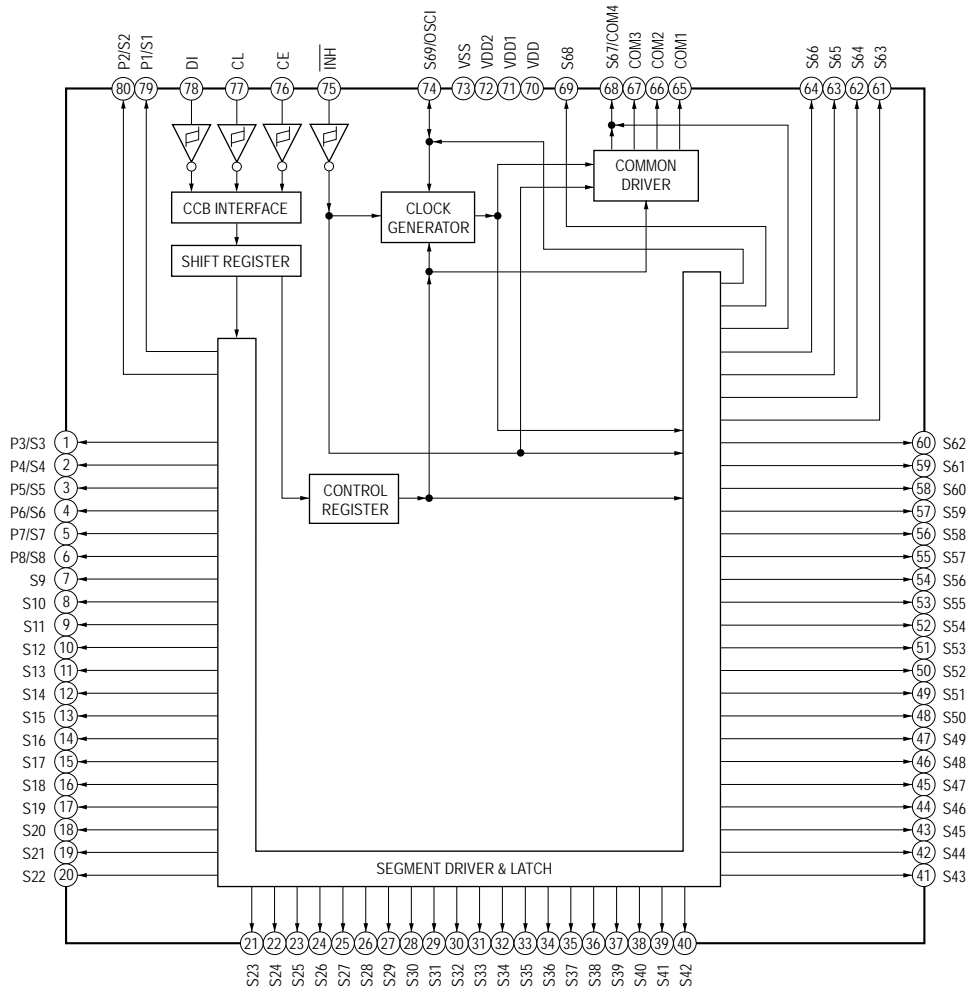
IC1300 OZ529IGN-A1-TR



**- KEY Board -
IC971 74LVC2G66DC-125**



IC981 LC75879PT-US-H



CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

• IC Pin Function Description

MAIN BOARD IC501 R5F3650KBDZ86FA (SYSTEM CONTROLLER) (GT660UE/GT660UV/GT662UE/GT710UV/GT717UV) R5F3650MBDZ97FA (SYSTEM CONTROLLER) (GT660UP)

Pin No.	Pin Name	I/O	Description
1	LCD_SO	O	Serial data output to the liquid crystal display driver
2	LCD_CLK	O	Serial clock signal output to the liquid crystal display driver
3	NOSE_SW	I	Front panel remove/attach detection signal input terminal Fixed at "L" in this set
4	SIRCS	I	Remote control signal input from the remote control signal receiver
5	UNISO	-	Not used
6	UNISI	-	Not used
7	UNISCK	-	Not used
8	BYTE	I	External data bus width select signal input Connect to VSS in this set
9	CNVSS	I	Flash write signal input terminal Normally operation: "L", Flash write: "H"
10	XIN	I	Low speed operation clock signal input terminal (32.768 kHz)
11	XOUT	O	Low speed operation clock signal output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator "L": reset
13	OSCOU	O	High speed operation clock signal output terminal (7.92 MHz)
14	VSS	-	Ground terminal
15	OSCIN	I	High speed operation clock signal input terminal (7.92 MHz)
16	VCC1	-	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt signal input terminal Fixed at "H" in this set
18	RC_IN1	I	Rotary remote commander shift key input terminal
19	BUIN	I	Back up power supply detection signal input terminal "L" is input at low voltage
20	SYSRST	O	Reset signal output terminal
21	BUS_ON	-	Not used
22	MC_RX	I	Serial data input from the CD drive/USB controller
23	DOOR_SW	I	Front panel remove/attach detection signal input terminal Fixed at "L" in this set
24	MC_TX	O	Serial data output to the CD drive/USB controller
25	DOOR_ING	O	LED drive signal output terminal for the eject button indicator
26	SYNC	O	Synchronize signal output to the DC/DC converter
27	EJECT_OK	O	Eject OK signal output to the CD drive/USB controller
28	BEEP	O	Beep sound drive signal output to the power amplifier
29	I2C_SCK	O	IIC serial clock signal output terminal
30	I2C_SIO	I/O	IIC two-way serial data bus terminal
31	FW_TXD	O	Flash writer data output terminal
32	FW_RXD	I	Flash writer data input terminal
33	FW_CLK	I	Flash writer clock signal output terminal
34	FW_BUSY	O	Flash writer busy signal output terminal
35	XM_TX	O	Serial data output to the SIRIUSXM IN connector (GT660UP only)
36	XM_RX	I	Serial data input from the SIRIUSXM IN connector (GT660UP only)
37	XM_POWER_EN	O	Power supply on/off control signal output to the SIRIUSXM IN connector (GT660UP only)
38	CD_ON	I	Power supply on/off control signal input terminal for the CD section
39	CDM_ON	I	Power supply on/off control signal input terminal for the CD mechanism section
40	WAKE_UP	O	System wakeup signal output to the CD drive/USB controller
41	EPM	O	EPM signal output terminal Fixed at "L" in this set
42	Z_MUTE	I	Muting on/off control signal input from the CD drive/USB controller
43 to 45	NCO	-	Not used
46	CE	O	Chip enable signal output terminal Fixed at "H" in this set
47	HIT2_SDA	I/O	IIC two-way serial data bus with the FM/AM tuner unit
48	HIT2_SCL	O	IIC serial clock signal output to the FM/AM tuner unit
49	HIT2_RESET	O	Reset signal output to the FM/AM tuner unit
50	EN_USB	O	Power supply on/off control signal output to the DC/DC converter
51	VBUS_ON	I	VBUS on/off control signal input from the CD drive/USB controller "H": VBUS on
52	FLT_USB	I	Over current detection signal input from the DC/DC converter
53	EN_SYS	O	Power supply on/off control signal output to the DC/DC converter
54	IPOD	I	iPod connection mode is difference slope setting terminal
55	EXTATT_XEN	-	Not used
56	TELATT	I	Telephone attenuator detection signal input terminal
57	ACC_IN	I	Accessory power detection signal input terminal "L": accessory power on

Pin No.	Pin Name	I/O	Description
58	ATT	O	Muting on/off control signal output terminal "H": muting on
59	DIAG	I	Diagnostic signal input from the power amplifier
60	AMPSTB	O	Standby control signal output to the power amplifier
61	NCO	-	Not used
62	VCC2	-	Power supply terminal (+3.3V)
63	F_AUX_ATT	O	Muting on/off control signal output terminal
64	VSS	-	Ground terminal
65 to 80	NCO	-	Not used
81, 82	RE-IN1, RE-IN0	I	Jog dial pulse input from the rotary encoder
83	ILL_IN	I	Illuminate line detect signal input terminal
84 to 88	NCO	-	Not used
89	SA_DATA	I/O	IIC two-way serial data bus with the audio DSP
90	SA_CLK	O	IIC serial clock signal output to the audio DSP
91, 92	KEYACK0, KEYACK1	I	Acknowledge signal (wake up signal) input terminal
93	NCO	-	Not used
94, 95	KEYIN1, KEYIN0	I	Front panel key input terminal
96	AVSS	-	Ground terminal (for A/D converter)
97	RC_IN0	I	Rotary remote commander shift key input terminal
98	AVRH	I	Reference voltage (+3.3V) input terminal (for A/D converter)
99	AVDD	-	Power supply terminal (+3.3V) (for A/D converter)
100	LCD_CE	O	Chip enable signal output to the liquid crystal display driver

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN BOARD IC601 TMPM321FEFG (SY) (CD DRIVE/USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	AVSS	-	Ground terminal
2	VREFH	I	Reference voltage (+3.3V) input terminal (for A/D converter)
3	RESET	I	Reset signal input from the system controller "L": reset
4	MODE	I	Operation mode setting terminal Fixed at "L" in this unit
5	OPEN_REQ	-	Not used
6	EJECT_OK	I	Eject OK signal input from the system controller
7	NC	-	Not used
8	WAKEUP	I	System wakeup signal input from the system controller
9 to 11	NC	-	Not used
12	BUI_N	I	Back up power supply detection signal input terminal "L" is input at low voltage
13	DVSS	-	Ground terminal
14	NC	-	Not used
15	CD_ZDET	I	Zero detection signal input from the audio DSP
16	DEC_XMUTE	O	Muting on/off control signal output to the audio DSP "L": muting on
17	DEC_LRCK	O	L/R sampling clock signal output to the audio DSP
18	DEC_BCK	O	Bit clock signal output to the audio DSP
19	DEC_DATA	O	Digital audio data output to the audio DSP
20	DEC_GATE	O	Gate signal output to the audio DSP
21	DEC_REQ	I	Request signal input from the audio DSP
22	CD_SO	O	Serial data output to the audio DSP
23	CD_SI	I	Serial data input from the audio DSP
24	CD_SCLK	I	Serial data transfer clock signal output to the audio DSP
25	MEC_SELFVSW	I	Detection signal input from the CD section (self switch)
26	NC	-	Not used
27	DEC_INT	I	Interrupt signal input from the audio DSP
28	CD_XRST	O	Reset request signal output to the audio DSP "L": reset
29	CD_XCCE	O	Chip enable signal output to the audio DSP
30, 31	NC	-	Not used
32	Z/Y_CHECK	-	Not used
33	DVCC3	-	Power supply terminal (+3.3V)
34	DVSS	-	Ground terminal
35	DRV_ON	O	Driver control signal output to the CD section
36	MEC_LOAD	O	Motor (Loading) signal output to the CD section
37	MEC_EJECT	O	Motor (Eject) signal output to the CD section
38	DEC_SSTBY	O	SRAM standby mode control signal output to the audio DSP
39	MEC_LIMIT	I	Detection signal input from the CD section (limit switch)
40	MEC_INSW	I	Detection signal input from the CD section (in switch)
41	MEC_DSW	I	Detection signal input from the CD section (D switch)
42, 43	NC	-	Not used
44	XLINE	-	Not used
45	XINITO	-	Not used
46	FE/SBAD_SEL	-	Not used
47	Z/Y_SEL	I	Z/Y setting terminal
48	NC	-	Not used
49	MECON_CHECK	I	Power supply volatage detection terminal for CD mechanizm section
50	CDON_CHECK	I	Power supply volatage detection terminal for CD section
51	A_ATT	O	Muting on/off control signal output terminal
52	MECON	O	Power supply on/off control signal put terminal for the CD mechanizm section
53	CDON	O	Power supply on/off control signal put terminal for the CD section
54	Z_MUTE	O	Muting on/off control signal input from the system controller
55	TxD	O	Serial data output to the system controller
56	RxD	I	Serial data input from the system controller
57, 58	NC	-	Not used
59	DVCC3	-	Power supply terminal (+3.3V)
60	DVSS	-	Ground terminal
61	SWDIO	-	Not used
62	SWCLK	-	Not used
63	TRACECLK	-	Not used

Pin No.	Pin Name	I/O	Description
64 to 67	TRACEDATA0 to TRACEDATA3	-	Not used
68	CP_SDA	I/O	Serial data input/output for the EEPROM
69	CP_SCL	O	Serial data transfer clock signal output to the EEPROM
70	NC	-	Not used
71	CP_RESET	O	Reset signal output to the EEPROM
72	CPON	O	Power supply on/off control signal output terminal for the EEPROM
73	CDON_15V	O	Power supply on/off control signal output terminal for the CD section
74	VBUS_ON	O	VBUS on/off control signal input from the system controller "H": VBUS on
75	NC	-	Not used
76	REGVCC3	-	Power supply terminal (+3.3V)
77, 78	XT1, XT2	-	Not used
79	CVCC3	-	Power supply terminal (+3.3V)
80	X1	I	System clock input terminal (12 MHz)
81	CVSS	-	Ground terminal
82	X2	O	System clock output terminal (12 MHz)
83	DVCC3	-	Power supply terminal (+3.3V)
84	DVSS	-	Ground terminal
85, 86	USB+, USB-	I/O	Digital audio data bus terminal
87	NMI	-	Not used
88, 89	TEST	-	Not used
90, 91	NC	-	Not used
92	AVCC3	-	Power supply terminal (+3.3V)
93 to 100	NC	-	Not used

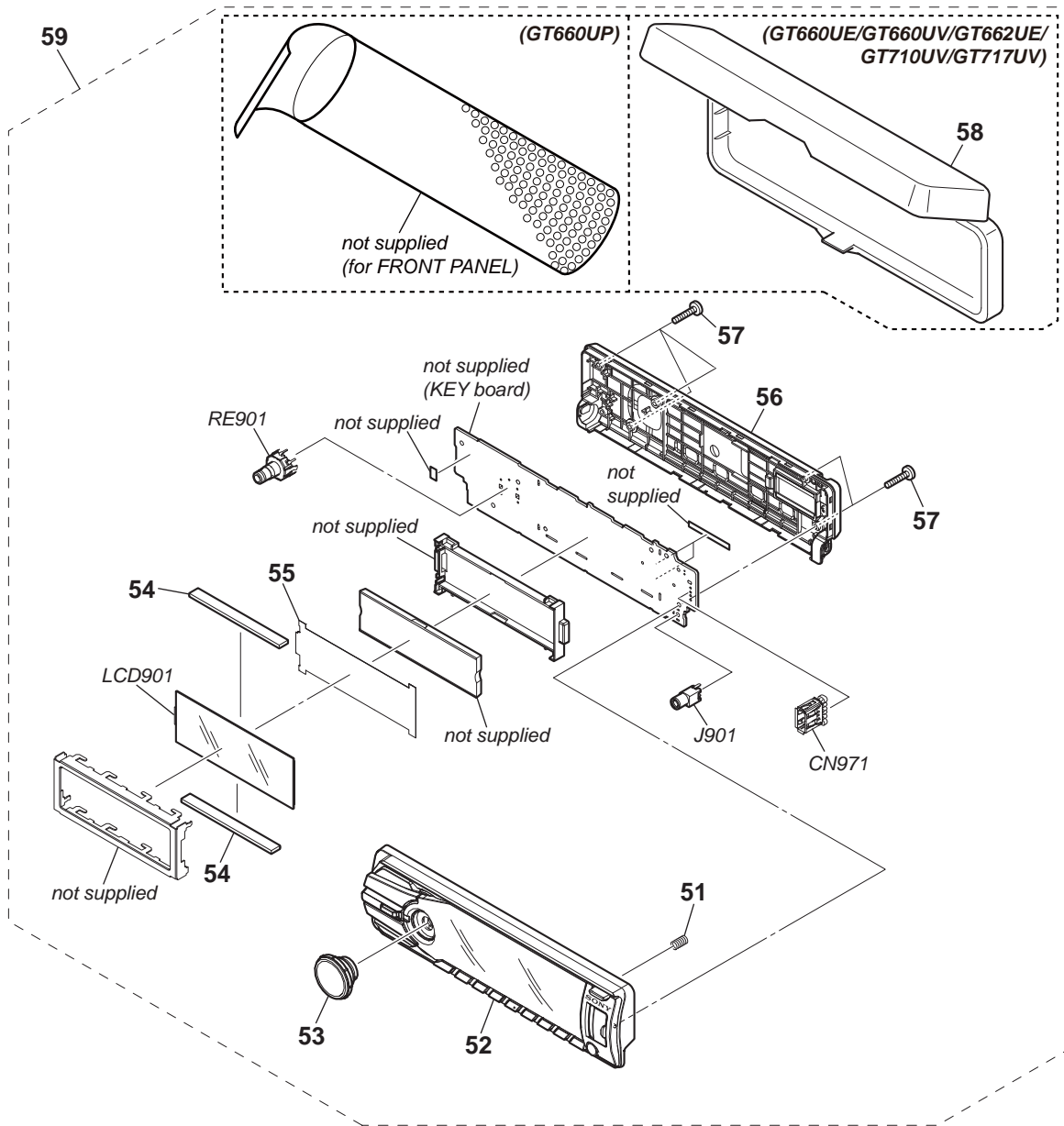
CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN BOARD IC701 TC94A99FG-003 (SY) (CD HEAD AMP, DIGITAL SERVO PROCESSOR, AUDIO DSP)

Pin No.	Pin Name	I/O	Description
1	LPFO	O	Signal output from the operation amplifier for PLL loop filter
2	PVREF	I	Reference voltage (+1.65V) input terminal
3	VCOF	O	Terminal for VCO filter
4	RVSS3	-	Ground terminal
5	VCOI	I	DSP VCO control voltage input terminal
6	RVDD3	-	Power supply terminal (+3.1V)
7	SLCO	O	EFM slice level output terminal
8	RFI	I	RF signal input terminal
9	RFRPI	I	RF ripple signal input terminal
10	RFEQO	O	EFM slice level output terminal
11	DCOFC	O	Not used
12	AGCI	I	RF signal amplitude adjustment amplification input terminal
13	RFO	O	RF signal generation amplification output terminal Not used
14	RVSS3	-	Ground terminal
15	FNI2	I	Main beam input terminal (Connect with pin diode B)
16	FNI1	I	Main beam input terminal (Connect with pin diode C)
17	FPI2	I	Main beam input terminal (Connect with pin diode C)
18	FPI1	I	Main beam input terminal (Connect with pin diode A)
19	VDD1-1	-	Power supply terminal (+1.5V)
20	TPI	I	Sub beam amplification input terminal (Connect with pin diode F)
21	TNI	I	Sub beam amplification input terminal (Connect with pin diode E)
22	VRO	O	Reference voltage (+1.65V) output terminal Not used
23	AVSS3	-	Ground terminal
24	MDI	I	Monitor photo diode amplification input terminal
25	LDO	O	Laser diode amplification output terminal
26	FSMONIT	-	Not used
27	RFZI	I	RF ripple zero crossing signal input terminal
28	RFRP	O	RF ripple signal output terminal
29	TEI	I	Tracking error signal input terminal
30	AVDD3	-	Power supply terminal (+3.1V)
31	FOO	O	Focus servo equalizer signal output terminal
32	TRO	O	Tracking servo equalizer signal output terminal
33	VSS-1	-	Ground terminal
34	FMO	O	Feeding servo equalizer signal output terminal
35	DMO	O	Disc servo equalizer signal output terminal
36	VDDM1	-	Power supply terminal (+1.5V)
37	/SRAMSTB	I	Strobe signal input from the CD drive/USB controller "L": standby mode
38	VDD1-2	-	Power supply terminal (+1.5V)
39	VDD3-1	-	Power supply terminal (+3.1V)
40	PIO10 to PIO20	-	Not used
51	DVDD12	-	Power supply terminal (+3.1V)
52	DAO1 (R_R-CH)	O	R_R channel data output terminal
53	DVSS12	-	Ground terminal
54	DAO2 (F_R-CH)	O	F_R channel data output terminal
55	DVREF	-	Reference voltage input terminal
56	DVDD34	-	Power supply terminal (+3.1V)
57	DAO3 (F_L-CH)	O	F_L channel data output terminal
58	DVSS34	-	Ground terminal
59	DAO4 (R_L-CH)	O	R_L channel data output terminal
60	DVDD5	-	Power supply terminal (+3.1V)
61	DAO5 (SUB-CH)	O	SUB channel data output terminal
62	DVSS5	-	Ground terminal
63	VDD1-3	-	Power supply terminal (+1.5V)
64	VSS-2	-	Ground terminal
65	XVSS3	-	Ground terminal
66	XI	I	System clock input terminal (16.934 MHz)
67	XO	O	System clock output terminal (16.934 MHz)
68	XVDD3	-	Power supply terminal (+3.1V)

Pin No.	Pin Name	I/O	Description
69	ADVDD3	-	Power supply terminal (+3.1V)
70	ADIN1 (IN_L-CH)	I	Audio signal input terminal (L channel)
71	ADVREFL	O	Reference voltage output terminal
72	ADVCM	O	Reference voltage output terminal
73	ADVREFH	O	Reference voltage output terminal
74	ADIN2 (IN_R-CH)	I	Audio signal input terminal (R channel)
75	ADVSS3	-	Ground terminal
76	MS	I	I/F mode selection signal input terminal Fixed at "L" in this unit
77, 78	BUS0, BUS1	I/O	Bus data input/output terminal Not used
79	So	O	Serial data output to the CD drive/USB controller
80	Si	I	Serial data input from the CD drive/USB controller
81	SCL	I	Bus clock signal input from the CD drive/USB controller
82	/CCE	I	Chip enable signal input from the CD drive/USB controller
83	VDD3-2	-	Power supply terminal (+3.1V)
84	VSS-3	-	Ground terminal
85	/RST	I	Reset signal input from the system controller
86	VDD1-4	-	Power supply terminal (+1.5V)
87	DEC_REQ	O	Request signal output to the CD drive/USB controller
88	BSIF-REQ	O	Request signal output to the CD drive/USB controller
89	BSIF-GATE	I	Gate signal input from the CD drive/USB controller
90	BSIF_DATA	I	Audio data input from the CD drive/USB controller
91	BSIF_BCK	I	Bit clock signal input from the CD drive/USB controller
92	BSIF_LRCK	I	L/R sampling clock signal (44.1 kHz) input terminal for audio data input
93	BSIF_XMUTE	I	Muting on/off control signal input from the CD drive/USB controller
94	ZDET	O	Zero detection signal output terminal
95	SP_DATA	O	Spectrum analyzer data output to the system controller
96	SP_CLK	I	Spectrum analyzer data transfer clock signal input from the system controller
97	TEST	I	Setting terminal for test mode Normally fixed at "L"
98	PDO	O	Phase error margin signal between EFM signal and PLCK signal output terminal
99	TMAX	O	TMAX detection result output terminal\
100	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter

5-2. FRONT PANEL SECTION

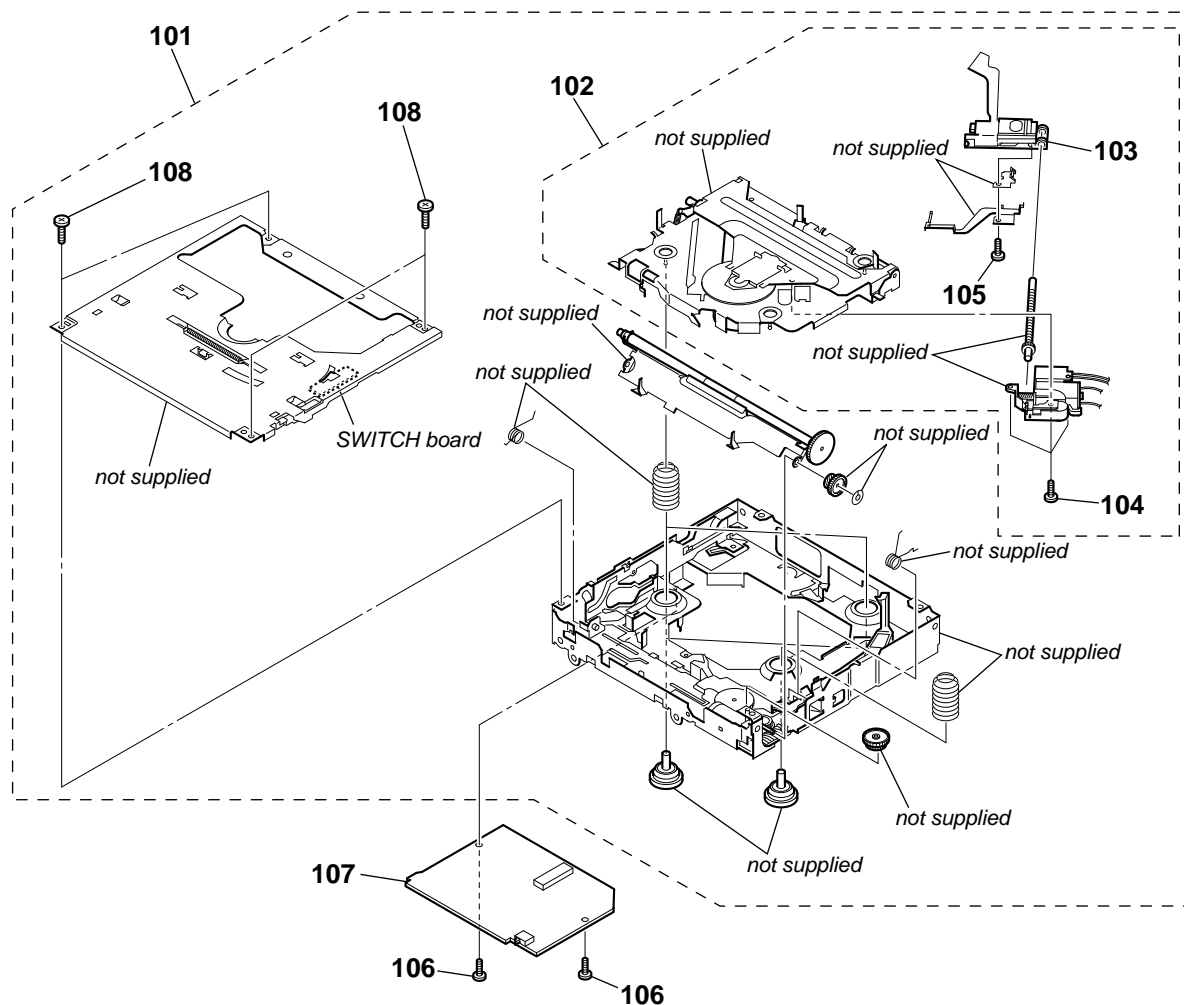


Note 1: Neither FRONT PANEL (SV) ASSY (Ref. No. 52) nor BACK PANEL (SV) ASSY (Ref. No. 56) are supplied excluding CDX-GT660UP only. Exchange the FRONT PANEL COMPLETE ASSY (Ref. No. 59) for other models.

Note 2: Refer to the servicing notes "NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)" (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-264-712-01	SPRING (OPEN)		59	A-1832-769-A	PANEL COMPLETE ASSY, FRONT (GT660UE)	
52	X-2581-981-1	PANEL (SV) ASSY, FRONT (GT660UP)		59	A-1832-787-A	PANEL COMPLETE ASSY, FRONT (GT710UV: E, EA)	
53	X-2582-550-1	KNOB ASSY (S)		59	A-1833-595-A	PANEL COMPLETE ASSY, FRONT (GT717UV)	
54	1-780-563-11	CONDUCTIVE BOARD, CONNECTION		59	A-1842-075-A	PANEL COMPLETE ASSY, FRONT (GT662UE)	
55	4-184-979-01	ILLUMINATOR (LCD)		59	A-1847-360-A	PANEL COMPLETE ASSY, FRONT (GT710UV: MX)	
56	X-2548-577-1	PANEL (SV) ASSY, BACK (GT660UP)		CN971	1-842-336-11	USB CONNECTOR (USB)	
57	3-250-543-21	SCREW (+B P-TITE M2)		J901	1-842-936-11	JACK (SMALL TYPE) (DIA. 3.5) (AUX)	
58	X-2187-544-4	CASE ASSY (GT660UE/GT660UV/GT662UE/GT710UV/GT717UV)		LCD901	1-811-223-11	DISPLAY PANEL, LIQUID CRYSTAL	
59	A-1832-720-A	PANEL COMPLETE ASSY, FRONT (GT660UP)		RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/SELECT (VOLUME))	
59	A-1832-750-A	PANEL COMPLETE ASSY, FRONT (GT660UV)					

5-3. CD MECHANISM SECTION
(MG-101CA-188)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY 08		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
△ 102	A-1284-705-A	DAXEV08		107	A-1823-723-A	SERVO BOARD, COMPLETE	
△ 103	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)		108	2-134-636-71	SCREW (M1.7X2.5)	
104	2-626-869-31	SCREW (M2X3), SERRATION					
105	3-686-458-21	SCREW (P1.4), TAPPING					

SECTION 6

ELECTRICAL PARTS LIST

KEY

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- CAPACITORS
uF: μ F
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . , uPA. . . , μ PA. . . ,
uPB. . . : μ PB. . . , uPC. . . , μ PC. . . ,
uPD. . . : μ PD. . .
- Abbreviation
EA : Saudi Arabia model
MX : Mexican model

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 name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****				< IC >	
		< CAPACITOR >		IC971	6-710-361-01	IC 74LVC2G66DC-125	
				IC981	6-715-732-01	IC LC75879PT-US-H	
				IC984	6-600-629-01	IC RS-470	
C903	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V			< COIL >	
C904	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V				
C905	1-114-331-11	CERAMIC CHIP	4.7uF 10% 10V				
C981	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V	L921	1-457-223-11	COMMON MODE CHOKE COIL	
C982	1-100-597-91	CERAMIC CHIP	0.1uF 10% 25V			< LED >	
				LED986	6-503-357-01	LED SMLV56RGB1U1 (KEY ILLUMINATION)	
C983	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	LED988	6-503-357-01	LED SMLV56RGB1U1 (LCD BACK LIGHT)	
C984	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V	LED989	6-503-357-01	LED SMLV56RGB1U1 (KEY ILLUMINATION)	
C985	1-165-908-11	CERAMIC CHIP	1uF 10% 10V	LED990	6-503-357-01	LED SMLV56RGB1U1 (RING ILLUMINATION)	
C986	1-165-884-11	CERAMIC CHIP	2.2uF 10% 6.3V			< TRANSISTOR >	
C993	1-100-352-91	CERAMIC CHIP	1uF 20% 16V				
				Q971	8-729-027-23	TRANSISTOR DTA114EKA-T146	
C995	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	Q972	6-551-272-01	TRANSISTOR RT3CLLM	
		< CONNECTOR >		Q973	6-551-272-01	TRANSISTOR RT3CLLM	
CN901	1-818-141-11	PLUG, CONNECTOR 20P		Q974	6-551-272-01	TRANSISTOR RT3CLLM	
		< DIODE >		Q975	6-551-272-01	TRANSISTOR RT3CLLM	
D901	6-503-205-01	DIODE RKZ6.8B2KGP1		Q976	6-551-272-01	TRANSISTOR RT3CLLM	
D902	6-503-205-01	DIODE RKZ6.8B2KGP1		Q977	6-551-272-01	TRANSISTOR RT3CLLM	
D903	6-503-205-01	DIODE RKZ6.8B2KGP1				< RESISTOR >	
D904	6-503-205-01	DIODE RKZ6.8B2KGP1		R900	1-216-808-11	METAL CHIP 82 5% 1/10W	
D905	6-503-205-01	DIODE RKZ6.8B2KGP1		R901	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R902	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D906	6-503-213-01	DIODE RKZ18B2KGP1		R910	1-216-807-11	METAL CHIP 68 5% 1/10W	
D907	6-503-205-01	DIODE RKZ6.8B2KGP1		R911	1-216-797-11	METAL CHIP 10 5% 1/10W	
D908	6-503-205-01	DIODE RKZ6.8B2KGP1					
D909	6-503-205-01	DIODE RKZ6.8B2KGP1		R912	1-216-803-11	METAL CHIP 33 5% 1/10W	
D910	6-503-205-01	DIODE RKZ6.8B2KGP1		R916	1-216-806-11	METAL CHIP 56 5% 1/10W	
				R918	1-216-806-11	METAL CHIP 56 5% 1/10W	
D911	6-503-205-01	DIODE RKZ6.8B2KGP1		R919	1-216-797-11	METAL CHIP 10 5% 1/10W	
D971	6-503-205-01	DIODE RKZ6.8B2KGP1		R920	1-216-803-11	METAL CHIP 33 5% 1/10W	
D972	6-503-205-01	DIODE RKZ6.8B2KGP1					
D975	6-503-205-01	DIODE RKZ6.8B2KGP1		R926	1-216-806-11	METAL CHIP 56 5% 1/10W	
D976	6-503-205-01	DIODE RKZ6.8B2KGP1		R928	1-216-806-11	METAL CHIP 56 5% 1/10W	
				R930	1-216-804-11	METAL CHIP 39 5% 1/10W	
D977	8-719-058-24	DIODE RB501V-40TE-17		R932	1-216-806-11	METAL CHIP 56 5% 1/10W	
D978	6-502-961-01	DIODE DA2J10100L		R933	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D979	6-503-205-01	DIODE RKZ6.8B2KGP1					
D981	6-503-204-01	DIODE RKZ6.2B2KGP1		R934	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D982	6-502-961-01	DIODE DA2J10100L		R935	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< FERRITE BEAD >		R937	1-216-806-11	METAL CHIP 56 5% 1/10W	
FB901	1-414-385-21	INDUCTOR, FERRITE BEAD		R939	1-216-804-11	METAL CHIP 39 5% 1/10W	
FB902	1-414-385-21	INDUCTOR, FERRITE BEAD		R940	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB903	1-414-385-21	INDUCTOR, FERRITE BEAD					

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

KEY MAIN

Ref. No.	Part No.	Description	Remark
R947	1-216-810-11	METAL CHIP 120 5%	1/10W
R951	1-216-820-11	METAL CHIP 820 5%	1/10W
R952	1-216-821-11	METAL CHIP 1K 5%	1/10W
R953	1-216-821-11	METAL CHIP 1K 5%	1/10W
R954	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R955	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R956	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R957	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R958	1-216-806-11	METAL CHIP 56 5%	1/10W
R959	1-216-820-11	METAL CHIP 820 5%	1/10W
R960	1-216-821-11	METAL CHIP 1K 5%	1/10W
R961	1-216-821-11	METAL CHIP 1K 5%	1/10W
R962	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R963	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R964	1-216-824-11	METAL CHIP 1.8K 5%	1/10W
R965	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R966	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R967	1-216-810-11	METAL CHIP 120 5%	1/10W
R968	1-216-814-11	METAL CHIP 270 5%	1/10W
R971	1-216-833-11	METAL CHIP 10K 5%	1/10W
R972	1-216-833-11	METAL CHIP 10K 5%	1/10W
R973	1-216-817-11	METAL CHIP 470 5%	1/10W
R974	1-216-817-11	METAL CHIP 470 5%	1/10W
R975	1-216-817-11	METAL CHIP 470 5%	1/10W
R976	1-216-797-11	METAL CHIP 10 5%	1/10W
R977	1-216-797-11	METAL CHIP 10 5%	1/10W
R978	1-216-809-11	METAL CHIP 100 5%	1/10W
R981	1-216-809-11	METAL CHIP 100 5%	1/10W
R982	1-216-859-11	METAL CHIP 1.5M 5%	1/10W
R983	1-216-025-11	METAL CHIP 100 5%	1/10W
R984	1-216-025-11	METAL CHIP 100 5%	1/10W
R985	1-216-025-11	METAL CHIP 100 5%	1/10W
R986	1-216-033-00	METAL CHIP 220 5%	1/10W
R987	1-216-821-11	METAL CHIP 1K 5%	1/10W
R988	1-216-809-11	METAL CHIP 100 5%	1/10W
R989	1-216-806-11	METAL CHIP 56 5%	1/10W
R990	1-216-810-11	METAL CHIP 120 5%	1/10W
R997	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R998	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R999	1-216-001-00	METAL CHIP 10 5%	1/10W
< SWITCH >			
S951	1-786-653-21	SWITCH, TACTILE (SOURCE, OFF)	
S952	1-786-653-21	SWITCH, TACTILE (SEEK+, >>>>)	
S953	1-786-653-21	SWITCH, TACTILE (MODE)	
S954	1-786-653-21	SWITCH, TACTILE (Q)	
S955	1-786-653-21	SWITCH, TACTILE (ZAP)	
S956	1-786-653-21	SWITCH, TACTILE (SEEK-, <<<<)	
S957	1-786-653-21	SWITCH, TACTILE (COLOR)	
S959	1-786-653-21	SWITCH, TACTILE (SCRL, DSPL)	
S960	1-786-653-21	SWITCH, TACTILE (PAUSE, 6)	
S961	1-786-653-21	SWITCH, TACTILE (5)	
S962	1-786-653-21	SWITCH, TACTILE (SHUF, 4)	
S963	1-786-653-21	SWITCH, TACTILE (REP, 3)	
S964	1-786-653-21	SWITCH, TACTILE (ALBUM ▲, 2)	
S965	1-786-653-21	SWITCH, TACTILE (▼ ALBUM, 1)	
S966	1-786-653-21	SWITCH, TACTILE (PTY, AF/TA) (GT660UE/GT660UV/GT662UE)	
S966	1-786-653-21	SWITCH, TACTILE (CAT, PTY) (GT660UP)	
S966	1-786-653-21	SWITCH, TACTILE (PTY) (GT710UV/GT717UV)	

Ref. No.	Part No.	Description	Remark
S971	1-798-032-11	SWITCH, DETECTION (FRONT PANEL OPEN/CLOSE DETECT)	

	A-1832-718-A	MAIN BOARD, COMPLETE (GT660UP)	
	A-1832-748-A	MAIN BOARD, COMPLETE (GT660UV)	
	A-1832-767-A	MAIN BOARD, COMPLETE (GT660UE/GT662UE/GT710UV: E, MX/GT717UV)	
	A-1843-990-A	MAIN BOARD, COMPLETE (GT710UV: EA) *****	
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
	7-685-794-09	SCREW +PTT 2.6X10 (S)	
< CAPACITOR >			
C10	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
C11	1-137-765-21	ELECT CHIP 47uF 20%	16V
C15	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C100	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C101	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C103	1-114-868-11	CERAMIC CHIP 0.1uF 10%	50V
C203	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C301	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C302	1-116-733-11	CERAMIC CHIP 1uF 10%	25V
C303	1-137-893-11	ELECT CHIP 22uF 20%	16V
C305	1-116-733-11	CERAMIC CHIP 1uF 10%	25V
C306	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C308	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C309	1-100-354-21	ELECT CHIP 220uF 20%	6.3V
C311	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V
C312	1-124-779-00	ELECT CHIP 10uF 20%	16V
C313	1-137-765-21	ELECT CHIP 47uF 20%	16V
C314	1-112-064-11	CERAMIC CHIP 2.2uF 10%	10V
C315	1-112-780-11	CERAMIC CHIP 0.47uF 10%	16V
C317	1-112-780-11	CERAMIC CHIP 0.47uF 10%	16V
C319	1-112-780-11	CERAMIC CHIP 0.47uF 10%	16V
C321	1-112-780-11	CERAMIC CHIP 0.47uF 10%	16V
C323	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C326	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C327	1-116-733-11	CERAMIC CHIP 1uF 10%	25V
C329	1-128-996-11	ELECT CHIP 4.7uF 20%	50V
C330	1-116-739-11	CERAMIC CHIP 0.47uF 10%	50V
C331	1-116-739-11	CERAMIC CHIP 0.47uF 10%	50V
C334	1-112-302-11	ELECT 3300uF 20%	16V
C335	1-114-868-11	CERAMIC CHIP 0.1uF 10%	50V
C397	1-114-868-11	CERAMIC CHIP 0.1uF 10%	50V
C398	1-100-905-11	CERAMIC CHIP 0.001uF 10%	50V
C399	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
C401	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C402	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C403	1-100-354-21	ELECT CHIP 220uF 20%	6.3V
C407	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C409	1-100-588-21	ELECT CHIP 1000uF 20%	6.3V
C411	1-100-354-21	ELECT CHIP 220uF 20%	6.3V
C413	1-124-779-00	ELECT CHIP 10uF 20%	16V
C414	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C415	1-128-398-11	ELECT CHIP 220uF 20%	16V
C416	1-128-992-21	ELECT CHIP 47uF 20%	25V
C419	1-124-779-00	ELECT CHIP 10uF 20%	16V
C420	1-124-779-00	ELECT CHIP 10uF 20%	16V
C422	1-124-779-00	ELECT CHIP 10uF 20%	16V
C424	1-124-779-00	ELECT CHIP 10uF 20%	16V

Note: When the MAIN board in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C425	1-124-779-00	ELECT CHIP 10uF 20%	16V	C721	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C436	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C722	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C437	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C724	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C438	1-112-064-11	CERAMIC CHIP 2.2uF 10%	10V	C725	1-124-778-00	ELECT CHIP 22uF 20%	6.3V
C442	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C726	1-164-940-11	CERAMIC CHIP 0.0033uF 10%	16V
C450	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C727	1-164-940-11	CERAMIC CHIP 0.0033uF 10%	16V
C451	1-112-064-11	CERAMIC CHIP 2.2uF 10%	10V	C728	1-164-940-11	CERAMIC CHIP 0.0033uF 10%	16V
C452	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C729	1-164-940-11	CERAMIC CHIP 0.0033uF 10%	16V
C457	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C730	1-164-940-11	CERAMIC CHIP 0.0033uF 10%	16V
C501	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C732	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C502	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V	C733	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C503	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C734	1-164-860-11	CERAMIC CHIP 27PF 5%	50V
C504	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C735	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C507	1-164-858-11	CERAMIC CHIP 22PF 5%	50V	C737	1-100-742-91	CERAMIC CHIP 2.2uF 20%	10V
C508	1-164-856-81	CERAMIC CHIP 18PF 5%	50V	C738	1-100-742-91	CERAMIC CHIP 2.2uF 20%	10V
C510	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C739	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C512	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V	C741	1-164-878-11	CERAMIC CHIP 150PF 5%	50V
C513	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	* C742	1-116-727-11	CERAMIC CHIP 2.2uF 10%	16V
C514	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V	C743	1-164-878-11	CERAMIC CHIP 150PF 5%	50V
C518	1-119-923-11	CERAMIC CHIP 0.047uF 10%	10V	* C744	1-116-727-11	CERAMIC CHIP 2.2uF 10%	16V
C520	1-164-866-11	CERAMIC CHIP 47PF 5%	50V	C745	1-164-878-11	CERAMIC CHIP 150PF 5%	50V
C521	1-164-866-11	CERAMIC CHIP 47PF 5%	50V	* C746	1-116-727-11	CERAMIC CHIP 2.2uF 10%	16V
C522	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C747	1-164-939-11	CERAMIC CHIP 0.0022uF 10%	50V
C523	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C748	1-164-939-11	CERAMIC CHIP 0.0022uF 10%	50V
C601	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C750	1-126-603-11	ELECT CHIP 4.7uF 20%	35V
C605	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C751	1-126-603-11	ELECT CHIP 4.7uF 20%	35V
C606	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C752	1-126-603-11	ELECT CHIP 4.7uF 20%	35V
C607	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C753	1-126-603-11	ELECT CHIP 4.7uF 20%	35V
C608	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V	C754	1-100-742-91	CERAMIC CHIP 2.2uF 20%	10V
C609	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C756	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C610	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C759	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V
C612	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C760	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C613	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V	C761	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C614	1-164-850-11	CERAMIC CHIP 10PF 0.5PF	50V	C764	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C615	1-164-850-11	CERAMIC CHIP 10PF 0.5PF	50V	C766	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V
C616	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V	C767	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C617	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C768	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C680	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V	C771	1-164-866-11	CERAMIC CHIP 47PF 5%	50V
C681	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C772	1-127-988-81	CERAMIC CHIP 0.015uF 10%	16V
C682	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C776	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C683	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C777	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V
C685	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V	C778	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C686	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V	C779	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V
C687	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C780	1-164-172-11	CERAMIC CHIP 0.0056uF 10%	25V
C688	1-165-884-11	CERAMIC CHIP 2.2uF 10%	6.3V	C781	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C689	1-165-884-11	CERAMIC CHIP 2.2uF 10%	6.3V	C782	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C690	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C783	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C701	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C784	1-127-988-81	CERAMIC CHIP 0.015uF 10%	16V
C711	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V	C786	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C712	1-126-208-21	ELECT CHIP 47uF 20%	4V	C787	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C713	1-119-923-11	CERAMIC CHIP 0.047uF 10%	10V	C788	1-164-937-11	CERAMIC CHIP 0.001uF 10%	50V
C714	1-119-923-11	CERAMIC CHIP 0.047uF 10%	10V	C789	1-164-939-11	CERAMIC CHIP 0.0022uF 10%	50V
C715	1-164-935-11	CERAMIC CHIP 470PF 10%	50V	C792	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V
C716	1-162-962-11	CERAMIC CHIP 470PF 10%	50V	C830	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C717	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V	C831	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C718	1-127-772-81	CERAMIC CHIP 0.033uF 10%	10V				(GT660UP)
C719	1-100-579-81	CERAMIC CHIP 0.0056uF 10%	25V				(GT660UP)
C720	1-125-777-11	CERAMIC CHIP 0.1uF 10%	10V	C876	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
							(GT660UP)
				C1301	1-100-591-91	CERAMIC CHIP 1uF 10%	25V
				C1304	1-116-486-21	CERAMIC CHIP 47uF 20%	16V

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN

Ref. No.	Part No.	Description	Remark
C1305	1-100-055-21	CERAMIC CHIP 22uF 20%	16V
C1306	1-164-936-11	CERAMIC CHIP 680PF 10%	50V
C1307	1-164-943-81	CERAMIC CHIP 0.01uF 10%	16V
C1308	1-112-064-11	CERAMIC CHIP 2.2uF 10%	10V
C1309	1-114-323-11	CERAMIC CHIP 0.01uF 10%	50V
C1310	1-114-582-91	CERAMIC CHIP 0.1uF 10%	16V
C1311	1-117-681-11	ELECT CHIP 100uF 20%	16V
C1312	1-100-567-81	CERAMIC CHIP 0.01uF 10%	25V
C1315	1-100-055-21	CERAMIC CHIP 22uF 20%	16V
C1316	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
		(GT660UE/GT660UP/GT660UV/GT662UE/ GT710UV: E, MX/GT717UV)	
C1316	1-114-246-11	CERAMIC CHIP 1uF 20%	25V
		(GT710UV: EA)	
C1317	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
		< CONNECTOR >	
CN01	A-1832-182-A	FM/AM TUNER UNIT (TUX-DSP02//Q)	
CN101	1-770-530-31	CONNECTOR, FFC/FPC 23P	
CN301	1-774-701-21	PIN, CONNECTOR 16P	
CN501	1-779-806-21	CONNECTOR 8P	
CN601	1-785-900-21	CONNECTOR 5P	
CN700	1-842-487-12	CONNECTOR, BOARD TO BOARD 28P	
CN802	1-779-886-11	SOCKET, MINIATURE DIN CONNECTOR (SIRIUSXM IN) (GT660UP)	
		< DIODE/SURGE ABSORBER >	
D101	6-503-205-01	DIODE RKZ6.8B2KGP1	
D102	6-503-205-01	DIODE RKZ6.8B2KGP1	
D103	6-503-205-01	DIODE RKZ6.8B2KGP1	
D104	6-503-205-01	DIODE RKZ6.8B2KGP1	
D105	6-503-205-01	DIODE RKZ6.8B2KGP1	
D106	6-503-205-01	DIODE RKZ6.8B2KGP1	
D107	6-503-205-01	DIODE RKZ6.8B2KGP1	
D108	6-503-205-01	DIODE RKZ6.8B2KGP1	
D109	6-503-213-01	DIODE RKZ18B2KGP1	
D110	6-503-205-01	DIODE RKZ6.8B2KGP1	
D116	6-503-205-01	DIODE RKZ6.8B2KGP1	
D117	1-805-043-11	ABSORBER, CHIP SURGE	
D118	1-805-043-11	ABSORBER, CHIP SURGE	
D119	6-503-205-01	DIODE RKZ6.8B2KGP1	
D120	6-503-205-01	DIODE RKZ6.8B2KGP1	
D121	6-503-205-01	DIODE RKZ6.8B2KGP1	
D122	6-503-205-01	DIODE RKZ6.8B2KGP1	
D123	6-503-205-01	DIODE RKZ6.8B2KGP1	
D198	6-503-205-01	DIODE RKZ6.8B2KGP1	
D199	6-503-205-01	DIODE RKZ6.8B2KGP1	
D301	6-503-213-01	DIODE RKZ18B2KGP1	
D306	6-503-238-01	DIODE GN1G (GT660UV)	
D307	6-503-213-01	DIODE RKZ18B2KGP1	
D308	6-502-961-01	DIODE DA2J10100L	
D318	6-503-238-01	DIODE GN1G	
D320	6-503-213-01	DIODE RKZ18B2KGP1	
D321	6-503-238-01	DIODE GN1G	
D323	6-503-213-01	DIODE RKZ18B2KGP1	
D324	6-503-238-01	DIODE GN1G	
D400	6-500-334-01	DIODE MC2836-T112-1	
D401	6-502-961-01	DIODE DA2J10100L	
D403	6-500-335-01	DIODE MC2838-T112-1	
D530	6-502-131-01	DIODE LRB751V-40T1G	
D731	6-501-013-01	DIODE BAT54ALT1G	

Ref. No.	Part No.	Description	Remark
D805	6-503-206-01	DIODE RKZ7.5B2KGP1	
D806	6-503-213-01	DIODE RKZ18B2KGP1	
D820	6-503-213-01	DIODE RKZ18B2KGP1 (GT660UP)	
D831	6-503-213-01	DIODE RKZ18B2KGP1 (GT660UP)	
D832	6-503-213-01	DIODE RKZ18B2KGP1 (GT660UP)	
D1300	6-503-319-01	DIODE DB2X41400L	
		< FUSE >	
F3	1-576-416-21	FUSE (2A/36V) (GT660UP)	
F4	1-576-416-21	FUSE (2A/36V)	
		< FERRITE BEAD/JUMPER RESISTOR >	
FB19	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB398	1-469-084-21	FERRITE 0mH	
FB501	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB610	1-216-864-11	SHORT CHIP 0	
FB611	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB612	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB694	1-216-864-11	SHORT CHIP 0	
FB695	1-216-864-11	SHORT CHIP 0	
FB696	1-216-864-11	SHORT CHIP 0	
FB698	1-216-864-11	SHORT CHIP 0	
FB717	1-216-864-11	SHORT CHIP 0	
FB718	1-216-864-11	SHORT CHIP 0	
FB719	1-216-864-11	SHORT CHIP 0	
FB720	1-216-864-11	SHORT CHIP 0	
FB721	1-216-864-11	SHORT CHIP 0	
FB722	1-216-864-11	SHORT CHIP 0	
FB724	1-469-084-21	FERRITE 0mH	
FB750	1-216-864-11	SHORT CHIP 0	
FB751	1-216-864-11	SHORT CHIP 0	
FB760	1-216-864-11	SHORT CHIP 0	
FB762	1-216-864-11	SHORT CHIP 0	
FB782	1-469-084-21	FERRITE 0mH	
FB801	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB802	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB803	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB890	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
FB891	1-500-113-22	BEAD, FERRITE (CHIP) (1608)	
		< IC >	
IC301	6-715-848-21	IC TDF8556AJ/N5 (GT660UE/GT660UP/ GT662UE/GT710UV/GT717UV)	
IC301	6-715-849-11	IC TDF8556AJ/N5/M5 (GT660UV)	
IC401	6-714-623-01	IC BD3467FV-E2	
IC402	6-716-993-01	IC MM1836A33NRE	
IC403	6-712-776-01	IC PST8228UL	
IC501	6-718-037-01	IC R5F3650KBDZ86FA (GT660UE/GT660UV/ GT662UE/GT710UV/GT717UV)	
IC501	6-718-038-01	IC R5F3650MBDZ97FA (for SERVICE) (GT660UP)	
IC601	(Not supplied)	IC TMPM321FEFG (SY)	
IC680	6-713-560-01	IC MFI341S2162	
IC681	6-711-238-01	IC NJM2878F3-15 (TE2)	
IC682	6-711-238-01	IC NJM2878F3-15 (TE2)	
IC701	6-715-712-01	IC TC94A99FG-003 (SY)	
IC830	6-710-376-01	IC 74LVC1G17GW-125 (GT660UP)	
IC831	8-759-653-98	IC TC7WT126FU (TE12R) (GT660UP)	
IC1300	6-717-575-01	IC OZ529IGN-A1-TR	

Note 1: When the system controller (IC501) in this unit is replaced, the destination setting is necessary. Refer to "NOTE THE MAIN BOARD OR SYSTEM CONTROLLER (IC501) REPLACING" (page 4).

Note 2: IC601 on the MAIN board cannot exchange with single. When this part is damaged, exchange the complete mounted board.

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< JACK >		R320	1-218-990-81	SHORT CHIP	0
J1	1-822-949-21	JACK (ANT) (ANTENNA IN)		R321	1-218-973-11	METAL CHIP	47K 5% 1/16W
J403	1-822-714-21	JACK, PIN 6P (FRONT/REAR AUDIO OUT, SUB OUT (MONO))		R322	1-216-296-11	SHORT CHIP	0
J801	1-566-822-81	JACK (REMOTE IN)		R340	1-216-864-11	SHORT CHIP	0
		< COIL >		R378	1-216-073-91	METAL CHIP	10K 5% 1/10W
L1	1-400-073-21	INDUCTOR 4.7uH		R395	1-216-296-11	SHORT CHIP	0
L301	1-460-443-11	CHOKO COIL 140uH		R396	1-216-296-11	SHORT CHIP	0
L1300	1-457-874-11	INDUCTOR 10uH		R400	1-216-295-91	SHORT CHIP	0
L1301	1-481-904-11	INDUCTOR 47uH		R401	1-218-977-11	METAL CHIP	100K 5% 1/16W
		< TRANSISTOR >		R404	1-218-945-11	METAL CHIP	220 5% 1/16W
Q301	8-729-620-13	TRANSISTOR 2SC4154TP-1EF		R405	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q302	8-729-620-13	TRANSISTOR 2SC4154TP-1EF		R407	1-218-945-11	METAL CHIP	220 5% 1/16W
Q303	6-552-430-01	TRANSISTOR DRC5114E0L		R409	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q401	6-552-856-01	TRANSISTOR LTC914TUBFS8TL		R410	1-218-945-11	METAL CHIP	220 5% 1/16W
Q402	6-552-856-01	TRANSISTOR LTC914TUBFS8TL		R411	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q403	6-552-856-01	TRANSISTOR LTC914TUBFS8TL		R412	1-218-990-81	SHORT CHIP	0
Q404	6-552-856-01	TRANSISTOR LTC914TUBFS8TL		R413	1-218-965-11	METAL CHIP	10K 5% 1/16W
Q405	6-552-856-01	TRANSISTOR LTC914TUBFS8TL		R414	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q407	6-552-410-01	TRANSISTOR DRA5114E0L		R415	1-216-049-11	METAL CHIP	1K 5% 1/10W
Q409	6-552-430-01	TRANSISTOR DRC5114E0L		R416	1-216-049-11	METAL CHIP	1K 5% 1/10W
Q500	6-552-410-01	TRANSISTOR DRA5114E0L		R417	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q501	6-552-430-01	TRANSISTOR DRC5114E0L		R418	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q682	6-551-699-01	TRANSISTOR ISA1602AM1-T111-1EF		R419	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q683	8-729-038-37	TRANSISTOR RT1N141M-TP-1		R420	1-216-295-91	SHORT CHIP	0
Q710	8-729-024-43	TRANSISTOR 2SA1365-T112-1EF		R421	1-218-945-11	METAL CHIP	220 5% 1/16W
Q801	6-552-444-01	TRANSISTOR DRC5144E0L		R422	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q802	6-552-430-01	TRANSISTOR DRC5114E0L		R423	1-218-945-11	METAL CHIP	220 5% 1/16W
Q803	8-729-620-13	TRANSISTOR 2SC4154TP-1EF		R424	1-216-833-11	METAL CHIP	10K 5% 1/10W
		< RESISTOR >		R425	1-218-990-81	SHORT CHIP	0
R10	1-218-990-81	SHORT CHIP	0	R426	1-218-965-11	METAL CHIP	10K 5% 1/16W
R11	1-216-864-11	SHORT CHIP	0	R427	1-216-821-11	METAL CHIP	1K 5% 1/10W
R12	1-216-864-11	SHORT CHIP	0	R429	1-216-801-11	METAL CHIP	22 5% 1/10W
R13	1-216-821-11	METAL CHIP	1K 5% 1/10W	R430	1-216-864-11	SHORT CHIP	0
R19	1-216-864-11	SHORT CHIP	0	R431	1-216-864-11	SHORT CHIP	0
R116	1-216-295-91	SHORT CHIP	0	R432	1-216-833-11	METAL CHIP	10K 5% 1/10W
R121	1-216-797-11	METAL CHIP	10 5% 1/10W	R433	1-216-296-11	SHORT CHIP	0
R122	1-216-797-11	METAL CHIP	10 5% 1/10W	R434	1-216-296-11	SHORT CHIP	0
R199	1-216-864-11	SHORT CHIP	0	R442	1-218-990-81	SHORT CHIP	0
R300	1-216-296-11	SHORT CHIP	0	R443	1-218-990-81	SHORT CHIP	0
R301	1-218-941-81	METAL CHIP	100 5% 1/16W	R500	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
R302	1-218-941-81	METAL CHIP	100 5% 1/16W	R501	1-218-977-11	METAL CHIP	100K 5% 1/16W
R303	1-216-182-00	METAL CHIP	220 5% 1/8W	R502	1-216-845-11	METAL CHIP	100K 5% 1/10W
R304	1-216-182-00	METAL CHIP	220 5% 1/8W	R506	1-218-953-11	METAL CHIP	1K 5% 1/16W
R305	1-216-182-00	METAL CHIP	220 5% 1/8W	R507	1-218-977-11	METAL CHIP	100K 5% 1/16W
R306	1-216-182-00	METAL CHIP	220 5% 1/8W	R508	1-218-941-81	METAL CHIP	100 5% 1/16W
R307	1-218-943-11	METAL CHIP	150 5% 1/16W	R509	1-216-864-11	SHORT CHIP	0
R308	1-216-295-91	SHORT CHIP	0	R510	1-218-941-81	METAL CHIP	100 5% 1/16W
R309	1-218-973-11	METAL CHIP	47K 5% 1/16W	R511	1-218-941-81	METAL CHIP	100 5% 1/16W
R311	1-216-073-91	METAL CHIP	10K 5% 1/10W	R513	1-218-977-11	METAL CHIP	100K 5% 1/16W
R312	1-218-973-11	METAL CHIP	47K 5% 1/16W	R514	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R313	1-218-973-11	METAL CHIP	47K 5% 1/16W	R515	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R314	1-218-961-11	METAL CHIP	4.7K 5% 1/16W	R516	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R315	1-218-969-11	METAL CHIP	22K 5% 1/16W	R517	1-218-953-11	METAL CHIP	1K 5% 1/16W
R316	1-218-977-11	METAL CHIP	100K 5% 1/16W	R518	1-218-953-11	METAL CHIP	1K 5% 1/16W
R317	1-216-214-00	METAL CHIP	4.7K 5% 1/8W	R521	1-218-965-11	METAL CHIP	10K 5% 1/16W
R318	1-216-821-11	METAL CHIP	1K 5% 1/10W	R522	1-218-965-11	METAL CHIP	10K 5% 1/16W
				R523	1-218-941-81	METAL CHIP	100 5% 1/16W
				R524	1-218-941-81	METAL CHIP	100 5% 1/16W
				R525	1-218-941-81	METAL CHIP	100 5% 1/16W
				R527	1-218-977-11	METAL CHIP	100K 5% 1/16W

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R529	1-218-949-11	METAL CHIP	470	5%	1/16W	R620	1-218-953-11	METAL CHIP	1K	5%	1/16W
R531	1-218-977-11	METAL CHIP	100K	5%	1/16W	R621	1-218-941-81	METAL CHIP	100	5%	1/16W
R533	1-218-953-11	METAL CHIP	1K	5%	1/16W	R622	1-216-833-11	METAL CHIP	10K	5%	1/10W
R534	1-218-953-11	METAL CHIP	1K	5%	1/16W	R623	1-218-990-81	SHORT CHIP	0		
R535	1-218-949-11	METAL CHIP	470	5%	1/16W	R625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R536	1-218-977-11	METAL CHIP	100K	5%	1/16W	R629	1-218-941-81	METAL CHIP	100	5%	1/16W
R538	1-218-965-11	METAL CHIP	10K	5%	1/16W	R637	1-218-971-11	METAL CHIP	33K	5%	1/16W
R539	1-218-990-81	SHORT CHIP	0			R638	1-218-971-11	METAL CHIP	33K	5%	1/16W
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W	R639	1-218-965-11	METAL CHIP	10K	5%	1/16W
R541	1-245-604-11	METAL CHIP	10M	5%	1/16W	R641	1-218-977-11	METAL CHIP	100K	5%	1/16W
R542	1-218-981-91	METAL CHIP	220K	5%	1/16W	R642	1-218-965-11	METAL CHIP	10K	5%	1/16W
R543	1-218-990-81	SHORT CHIP	0			R643	1-216-845-11	METAL CHIP	100K	5%	1/10W
R544	1-216-857-11	METAL CHIP	1M	5%	1/10W	R644	1-218-941-81	METAL CHIP	100	5%	1/16W
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W	R645	1-218-941-81	METAL CHIP	100	5%	1/16W
R546	1-218-977-11	METAL CHIP	100K	5%	1/16W	R646	1-218-941-81	METAL CHIP	100	5%	1/16W
R547	1-218-941-81	METAL CHIP	100	5%	1/16W	R647	1-218-941-81	METAL CHIP	100	5%	1/16W
R548	1-218-990-81	SHORT CHIP	0			R648	1-218-941-81	METAL CHIP	100	5%	1/16W
R549	1-218-990-81	SHORT CHIP	0			R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R553	1-218-949-11	METAL CHIP	470	5%	1/16W	R652	1-218-977-11	METAL CHIP	100K	5%	1/16W
R555	1-218-990-81	SHORT CHIP	0			R653	1-218-977-11	METAL CHIP	100K	5%	1/16W
R556	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R654	1-218-977-11	METAL CHIP	100K	5%	1/16W
R557	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R655	1-216-097-11	METAL CHIP	100K	5%	1/10W
R560	1-218-977-11	METAL CHIP	100K	5%	1/16W	R656	1-218-977-11	METAL CHIP	100K	5%	1/16W
R561	1-218-990-81	SHORT CHIP	0			R657	1-218-941-81	METAL CHIP	100	5%	1/16W
R562	1-218-990-81	SHORT CHIP	0			R658	1-218-990-81	SHORT CHIP	0		
R563	1-218-941-81	METAL CHIP	100	5%	1/16W	R661	1-218-941-81	METAL CHIP	100	5%	1/16W
R564	1-216-809-11	METAL CHIP	100	5%	1/10W	R667	1-218-965-11	METAL CHIP	10K	5%	1/16W
R565	1-218-977-11	METAL CHIP	100K	5%	1/16W	R668	1-218-989-11	METAL CHIP	1M	5%	1/16W
R566	1-218-977-11	METAL CHIP	100K	5%	1/16W	R669	1-218-990-81	SHORT CHIP	0		
R567	1-218-977-11	METAL CHIP	100K	5%	1/16W	R671	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R568	1-216-845-11	METAL CHIP	100K	5%	1/10W	R672	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R569	1-218-977-11	METAL CHIP	100K	5%	1/16W	R673	1-216-835-11	METAL CHIP	15K	5%	1/10W
R570	1-218-941-81	METAL CHIP	100	5%	1/16W	R674	1-216-835-11	METAL CHIP	15K	5%	1/10W
R571	1-218-941-81	METAL CHIP	100	5%	1/16W	R675	1-218-977-11	METAL CHIP	100K	5%	1/16W
R572	1-218-941-81	METAL CHIP	100	5%	1/16W	R676	1-218-977-11	METAL CHIP	100K	5%	1/16W
R573	1-218-941-81	METAL CHIP	100	5%	1/16W	R680	1-218-953-11	METAL CHIP	1K	5%	1/16W
R574	1-218-941-81	METAL CHIP	100	5%	1/16W	R681	1-216-845-11	METAL CHIP	100K	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W	R682	1-216-809-11	METAL CHIP	100	5%	1/10W
R576	1-218-977-11	METAL CHIP	100K	5%	1/16W	R683	1-218-965-11	METAL CHIP	10K	5%	1/16W
R577	1-218-977-11	METAL CHIP	100K	5%	1/16W	R684	1-218-965-11	METAL CHIP	10K	5%	1/16W
R578	1-216-833-11	METAL CHIP	10K	5%	1/10W	R686	1-218-969-11	METAL CHIP	22K	5%	1/16W
R579	1-216-833-11	METAL CHIP	10K	5%	1/10W	R687	1-218-953-11	METAL CHIP	1K	5%	1/16W
R584	1-218-977-11	METAL CHIP	100K	5%	1/16W	R688	1-216-864-11	SHORT CHIP	0		
R585	1-216-845-11	METAL CHIP	100K	5%	1/10W	R689	1-216-864-11	SHORT CHIP	0		
R587	1-218-977-11	METAL CHIP	100K	5%	1/16W	R690	1-220-200-81	METAL CHIP	30K	5%	1/16W
R600	1-218-941-81	METAL CHIP	100	5%	1/16W	R691	1-218-971-11	METAL CHIP	33K	5%	1/16W
R601	1-218-941-81	METAL CHIP	100	5%	1/16W	R692	1-218-990-81	SHORT CHIP	0		
R602	1-218-941-81	METAL CHIP	100	5%	1/16W	R693	1-218-990-81	SHORT CHIP	0		
R603	1-218-941-81	METAL CHIP	100	5%	1/16W	R695	1-216-864-11	SHORT CHIP	0		
R604	1-216-809-11	METAL CHIP	100	5%	1/10W	R697	1-218-990-81	SHORT CHIP	0		
R605	1-218-977-11	METAL CHIP	100K	5%	1/16W	R699	1-216-864-11	SHORT CHIP	0		
R606	1-218-977-11	METAL CHIP	100K	5%	1/16W	R710	1-218-953-11	METAL CHIP	1K	5%	1/16W
R607	1-218-977-11	METAL CHIP	100K	5%	1/16W	R711	1-218-929-11	METAL CHIP	10	5%	1/16W
R613	1-218-973-11	METAL CHIP	47K	5%	1/16W	R712	1-220-802-11	METAL CHIP	3.3	5%	1/16W
R614	1-218-965-11	METAL CHIP	10K	5%	1/16W	R714	1-218-990-81	SHORT CHIP	0		
R615	1-218-953-11	METAL CHIP	1K	5%	1/16W	R715	1-218-990-81	SHORT CHIP	0		
R616	1-218-953-11	METAL CHIP	1K	5%	1/16W	R716	1-218-990-81	SHORT CHIP	0		
R617	1-218-953-11	METAL CHIP	1K	5%	1/16W	R717	1-218-947-11	METAL CHIP	330	5%	1/16W
R618	1-218-953-11	METAL CHIP	1K	5%	1/16W	R718	1-218-947-11	METAL CHIP	330	5%	1/16W
R619	1-218-953-11	METAL CHIP	1K	5%	1/16W	R719	1-218-947-11	METAL CHIP	330	5%	1/16W

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

MAIN
SERVO
SUB
SWITCH

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R720	1-218-947-11	METAL CHIP	330 5% 1/16W	R872	1-216-834-11	METAL CHIP 12K 5%	1/10W (GT660UP)
R721	1-218-947-11	METAL CHIP	330 5% 1/16W	R873	1-216-295-91	SHORT CHIP	0 (GT660UP)
R722	1-218-989-11	METAL CHIP	1M 5% 1/16W	R874	1-216-049-11	METAL CHIP	1K 5% 1/10W (GT660UP)
R723	1-218-955-11	METAL CHIP	1.5K 5% 1/16W	R875	1-216-049-11	METAL CHIP	1K 5% 1/10W (GT660UP)
R724	1-218-958-11	METAL CHIP	2.7K 5% 1/16W	R899	1-216-296-11	SHORT CHIP	0
R725	1-218-958-11	METAL CHIP	2.7K 5% 1/16W	R1300	1-216-817-11	METAL CHIP	470 5% 1/10W
R726	1-218-965-11	METAL CHIP	10K 5% 1/16W	R1301	1-216-809-11	METAL CHIP	100 5% 1/10W
R727	1-218-965-11	METAL CHIP	10K 5% 1/16W	R1302	1-218-977-11	METAL CHIP	100K 5% 1/16W
R728	1-218-977-11	METAL CHIP	100K 5% 1/16W	R1305	1-208-709-11	METAL CHIP	12K 0.5% 1/16W
R729	1-218-977-11	METAL CHIP	100K 5% 1/16W	R1306	1-208-715-11	METAL CHIP	22K 0.5% 1/16W
R730	1-218-977-11	METAL CHIP	100K 5% 1/16W	R1307	1-208-933-11	METAL CHIP	82K 0.5% 1/16W
R731	1-216-845-11	METAL CHIP	100K 5% 1/10W	R1308	1-208-933-11	METAL CHIP	82K 0.5% 1/16W
R732	1-218-990-81	SHORT CHIP	0	R1310	1-218-953-11	METAL CHIP	1K 5% 1/16W
R733	1-218-990-81	SHORT CHIP	0	R1311	1-218-885-11	METAL CHIP	39K 0.5% 1/10W
R736	1-218-977-11	METAL CHIP	100K 5% 1/16W	R1312	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R737	1-218-953-11	METAL CHIP	1K 5% 1/16W	R1313	1-216-849-11	METAL CHIP	220K 5% 1/10W
R738	1-218-953-11	METAL CHIP	1K 5% 1/16W	R1315	1-218-953-11	METAL CHIP	1K 5% 1/16W
R739	1-218-953-11	METAL CHIP	1K 5% 1/16W			< SWITCH >	
R740	1-218-953-11	METAL CHIP	1K 5% 1/16W	S501	1-786-458-11	SWITCH, PUSH (1 KEY) (NOSE DETECT)	
R741	1-218-941-81	METAL CHIP	100 5% 1/16W			< VIBRATOR >	
R742	1-216-841-11	METAL CHIP	47K 5% 1/10W	X501	1-814-548-11	VIBRATOR, CERAMIC (7.92MHz)	
R743	1-218-967-11	METAL CHIP	15K 5% 1/16W	X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	
R744	1-218-983-11	METAL CHIP	330K 5% 1/16W	X601	1-814-304-11	VIBRATOR, CRYSTAL (12MHz)	
R745	1-218-941-81	METAL CHIP	100 5% 1/16W	X701	1-795-561-21	VIBRATOR, CERAMIC (16.934MHz)	
R746	1-218-990-81	SHORT CHIP	0	*****			
R747	1-218-990-81	SHORT CHIP	0	A-1823-723-A	SERVO BOARD, COMPLETE		
R748	1-218-990-81	SHORT CHIP	0	*****			
R749	1-218-990-81	SHORT CHIP	0	When SERVO board is defective, exchange the complete mounted board.			
R750	1-218-969-11	METAL CHIP	22K 5% 1/16W	*****			
R751	1-218-969-11	METAL CHIP	22K 5% 1/16W	SUB BOARD			
R761	1-216-864-11	SHORT CHIP	0	*****			
R763	1-216-864-11	SHORT CHIP	0	< CONNECTOR >			
R764	1-216-864-11	SHORT CHIP	0	CN201	1-818-142-11	SOCKET, CONNECTOR 20P	
R765	1-216-864-11	SHORT CHIP	0	< LED >			
R766	1-216-864-11	SHORT CHIP	0	LED201	6-502-193-11	LED SML-D12V8WT86TN (▲)	
R814	1-218-981-91	METAL CHIP	220K 5% 1/16W	< RESISTOR >			
R818	1-218-981-91	METAL CHIP	220K 5% 1/16W	R205	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R819	1-218-953-11	METAL CHIP	1K 5% 1/16W	< SWITCH >			
R820	1-218-953-11	METAL CHIP	1K 5% 1/16W	S201	1-786-653-21	SWITCH, TACTILE (▲)	
R830	1-218-972-11	METAL CHIP	39K 5% 1/16W (GT660UP)	*****			
R831	1-218-977-11	METAL CHIP	100K 5% 1/16W (GT660UP)	SWITCH BOARD			
R833	1-218-975-11	METAL CHIP	68K 5% 1/16W (GT660UP)	*****			
R834	1-218-977-11	METAL CHIP	100K 5% 1/16W (GT660UP)	When SWITCH board is defective, exchange the MECHANICAL BLOCK (U) ASSY 08.			
R835	1-216-864-11	SHORT CHIP	0 (GT660UP)	*****			
R836	1-216-801-11	METAL CHIP	22 5% 1/10W (GT660UP)				
R855	1-216-809-11	METAL CHIP	100 5% 1/10W (GT660UP)				
R856	1-216-809-11	METAL CHIP	100 5% 1/10W (GT660UP)				
R857	1-216-809-11	METAL CHIP	100 5% 1/10W (GT660UP)				
R864	1-216-864-11	SHORT CHIP	0				
R865	1-216-864-11	SHORT CHIP	0				
R870	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (GT660UP)				
R871	1-216-834-11	METAL CHIP	12K 5% 1/10W (GT660UP)				

CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
3	1-834-627-11	CABLE, FLEXIBLE FLAT (23 CORE)	
10	1-839-374-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT660UP/GT710UV/GT717UV)	
10	1-839-390-11	CONNECTION CORD (ISO) (POWER) (GT660UE/GT660UV/GT662UE)	
54	1-780-563-11	CONDUCTIVE BOARD, CONNECTION	
59	A-1832-720-A	PANEL COMPLETE ASSY, FRONT (GT660UP)	
59	A-1832-750-A	PANEL COMPLETE ASSY, FRONT (GT660UV)	
59	A-1832-769-A	PANEL COMPLETE ASSY, FRONT (GT660UE)	
59	A-1832-787-A	PANEL COMPLETE ASSY, FRONT (GT710UV: E, EA)	
59	A-1833-595-A	PANEL COMPLETE ASSY, FRONT (GT717UV)	
59	A-1842-075-A	PANEL COMPLETE ASSY, FRONT (GT662UE)	
59	A-1847-360-A	PANEL COMPLETE ASSY, FRONT (GT710UV: MX)	
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY 08	
△ 102	A-1284-705-A	DAXEV08	
△ 103	X-2149-672-1	OPTICAL PICK-UP (DAX-25A) (for SERVICE)	
CN971	1-842-336-11	USB CONNECTOR (USB)	
FU301	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)	
J901	1-842-936-11	JACK (SMALL TYPE) (DIA. 3.5) (AUX)	
LCD901	1-811-223-11	DISPLAY PANEL, LIQUID CRYSTAL	
RE901	1-487-023-22	ROTARY ENCODER (PUSH ENTER/SELECT (VOLUME))	

ACCESSORIES

1-489-810-21	REMOTE COMMANDER (RM-X211)
4-286-236-13	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (GT660UP)
4-286-236-31	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (GT660UV)
4-286-236-41	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (GT660UE/GT662UE)
4-286-236-51	MANUAL, INSTRUCTION (ENGLISH, SPANISH) (GT710UV: E, MX/GT717UV)
4-286-236-61	MANUAL, INSTRUCTION (ENGLISH, ARABIC, PERSIAN) (GT710UV: EA)
4-286-237-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (GT660UP)
4-286-237-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (GT660UV)
4-286-237-41	MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (GT660UE/GT662UE)
4-286-237-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (GT710UV: E, MX/GT717UV)
4-286-237-61	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC, PERSIAN) (GT710UV: EA)

Note: Refer to the servicing notes “NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN971) AND THE AUX JACK (J901)” (See page 5), if replacing the Ref. No. CN971 and the Ref. No. J901.

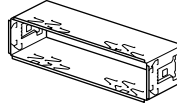
CDX-GT660UE/GT660UP/GT660UV/GT662UE/GT710UV/GT717UV

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
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PARTS FOR INSTALLATION AND CONNECTIONS


501	X-2548-178-1	FRAME ASSY, FITTING	
502	4-276-003-01	KEY (FRAME) (1 piece)	
503	4-168-810-02	COLLAR	
504	1-839-374-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (GT660UP/GT710UV/GT717UV)	
504	1-839-390-11	CONNECTION CORD (ISO) (POWER) (GT660UE/GT660UV/GT662UE)	
505	1-465-459-51	ADAPTOR, ANTENNA (GT660UE/GT660UV/GT662UE)	
506	X-3382-926-1	SCREW ASSY (BS), FITTING (GT660UE/GT660UV/GT662UE)	
507	3-349-410-11	BUSHING (GT660UE/GT660UV/GT662UE/ GT710UV/GT717UV)	
508	X-3381-154-1	SCREW ASSY (BS4), FITTING (GT710UV/GT717UV)	
509	3-934-325-01	SCREW, +K (5X8) TAPPING (1 piece) (GT660UP/GT710UV/GT717UV)	

501



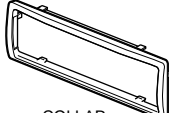
FITTING FRAME ASSY
× 1

502



KEY (FRAME)
× 2

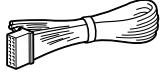
503



COLLAR
× 1

**(GT660UP/GT710UV/
GT717UV)**

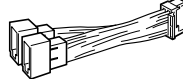
504



POWER CORD
× 1

**(GT660UE/GT660UV/
GT662UE)**

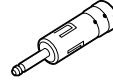
504



POWER CORD (ISO)
× 1


(GT660UE/GT660UV/GT662UE)

505




ANTENNA ADAPTER
× 1

506



FITTING SCREW
× 1

507




BUSHING
× 1

FITTING SCREW ASSY (BS)
× 1


(GT710UV/GT717UV)

508




FITTING SCREW
× 1

507



BUSHING
× 1

509




+K5 × 8
× 4

FITTING SCREW ASSY (BS4)
× 1

(GT660UP)

509



+K5 × 8
× 4

